



Hydraulic Hoses and Fittings

High Pressure



ENGINEERING YOUR SUCCESS.

High Pressure Hoses and Fittings

Three systems for heavy duty performers

Multispiral Parkrimp *No-Skive*

Crimpable with
Parkrimp System



Compact Spiral Interlock *No-Skive*

Crimpable with
Parkrimp System



ParLock Interlock Skive

Crimpable with
adjustable crimpers



Applications

The definitive hose range for all
high pressure applications



Crimper systems you can trust

Parkrimp crimpers for *No-Skive* one-piece fittings



KarryKrimp® 2



KarryKrimp® 2
Bench Mount



Parkrimp®

Adjustable crimpers for two-piece ParLock fittings



TH8E-530



TH 8E-380-CM



TH 8E-480-CM



Parkrimp *No-Skive*
one-piece fittings



ParLock
two-piece skive fittings

Good – Better – Best – engineered for your success.

New classification for easier hose and fitting selection

Good

“Good” hoses are cost-effective products – fully meeting the main parameters of the traditional international standards and exceeding them in particular requirements, such as service life, appearance, environmental aspects etc. (BCH braided hoses in combination with fitting series 16, 46, 48 in the medium pressure range and SX spiral hoses with fitting series 73 and 77).

Better

The category “Better” includes hose products which are exceeding the traditional international standards in the main parameters, such as working pressure, temperature, flexibility, impulse pressure resistance etc. These are the main qualities appreciated by the customers at the Parker well known *No-Skive* hoses – *Elite* braided in the medium pressure range and Parkrimp spiral.

Best

Category “Best” contains GLOBALCORE hose products which are meeting or even exceeding the latest and most demanding International Standard ISO 18752. GLOBALCORE is the world’s first high performance, cohesive hose and fitting range GLOBALCORE hoses have constant working pressures of 21.0 or 28.0 MPa in the medium pressure and 35.0 or 42.0 MPa in the high pressure range.

Good High Pressure

SX35, SX42

Fitting Series



* MP (Multipack) only

Better High Pressure

**Parkrimp
701, 731**

Fitting Series



Best High Pressure

GLOBALCORE™

787, 797

Fitting Series



Good

Newly developed high performance *No-Skive* hoses

SX spiral hoses – meeting international technical standards – newly developed for demanding small and medium OEMs and general distribution.

SX35 Multispiral

ISO 3862 Type R13



Size -12, -16, -20
-40 °C up to +125 °C

Constant working pressure 35.0 MPa



SX42 Multispiral

ISO 3862 Type R15



Size -12, -16, -20
-40 °C up to +125 °C

Constant working pressure 42.0 MPa



Parker NO-SKIVE - SX35-12 WP 35,0 MPa (5000 PSI) I° ISO 3862 4SP / R13

Parker NO-SKIVE - SX42-12 WP 42,0 MPa (6000 PSI) I° ISO 3862 R15 - 19 m

Customers choice is the key

Good, Better, Best classification for easier hose and fitting selection

- Different levels for different markets and applications
- Help customers to make better buying decision
- Defined hose and fitting combination on hose layline
- Clear visibility of correct fitting
- Easy to understand
- Ensures quality of hose and fitting combination

Superior performance of Best hoses versus Better and Good hoses

- Bend radius up to 50% smaller
- Flexibility (bending force) up to 30% higher
- Weight up to 20% lower
- Dimensions up to 25% smaller area
- Impulse resistance and service life up to four times higher
- Working temperature up to 25% higher

Construction is one of the typical markets and applications where „Good hose and fittings“ are the preferred product selection.



GLOBALCORE™

The world's first high-performance, cohesive hose and fitting system

722 / 722TC / 722ST *No-Skive* GlobalCore

Resilient 4-wire spiral construction

Primary Applications



Parker's GlobalCore 722 spiral hose provides 28 MPa (4,000 psi) constant working pressure in sizes -6 through -16. Designed for high-pressure, high-impulse applications, 722 hose is offered in Standard, ToughCover and SuperTough cover options.

It is one-half the bend radius of 100R12 hose, making it easy to install and reducing the amount of hose needed. Exceeding the ISO 18752 performance specification, Parker's 722 hose excels in multiple applications around the world.

787 / 787TC / 787ST *No-Skive* GlobalCore

Lighter weight, high flexibility make installation easy

Primary Applications



Parker's GlobalCore 787 hose provides 35 MPa (5,000 psi) constant working pressure in all sizes. Compared with conventional spiral hose, 787 hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. The 787 hose exceeds the ISO 18752 performance specification.

797 / 797TC / 797ST *No-Skive* GlobalCore

Lighter weight, high flexibility make installation easy

Primary Applications



Parker's GlobalCore 797 hose provides 42 MPa (6,000 psi) constant working pressure in all sizes. Compared with conventional spiral hose, 797 hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. The 797 hose exceeds the ISO 18752 performance specification.



GlobalCore significantly reduces system complexity



- ½ ISO 18752 minimum bend radius
- 28 MPa (4,000 psi) constant working pressure
- Exceeds ISO 18752 performance specification (BC and CC)
- 4-spiral construction for longer life in high-impulse, heavy-duty cycle applications
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hoses
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hoses



- ½ ISO 18752 minimum bend radius
- 35 MPa (5,000 psi) constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (BC/DC)
- Nearly 30 % smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested, providing a hose superior in both performance and service life
- 30 % less hose weight than SAE spiral
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hoses
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hoses



- ½ the bend radius of SAE spiral
- 42 MPa (6,000 psi) constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (BC/CC/DC)
- Nearly 30 % smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested, providing a hose superior in both performance and service life
- 30 % less hose weight than SAE spiral
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hoses
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hoses

Full Flange System

Provides full flange mounting option for ISO 6162-1 (35.0 MPa/5000 psi) and ISO 6162-2 (42.0 MPa/ 6000 psi) flanges – system flexibility reduces inventory investment.

The full flange system addresses the needs of customers by:

- Being easier to assemble
- Providing one-piece integrity
- Being easier to handle
- Being easier to route in tight spaces
- Enabling assemblies to be sent to customers with the flange in place
- Easing bent tube installation (displacement angle) with a freely rotating flange



The full flange system can be used repeatedly because of its patent-pending attachment system – the flange is not permanently locked onto the fitting.

- This is not a captive flange – it can easily be removed
- Flange can be reused if necessary
- Flange is not scrapped on a mis-crimp

Fitting Configuration

This fitting configuration is specifically designed for Parker's full flange system, and will accept either a ISO 6162-1 or ISO 6162-2 flange. The X5, X7 and X9 fittings are designed to work with all Parkrimp crimpers. These fittings can replace multiple existing fittings and help to reduce inventory.

Reduction of Inventory

Parker's full flange system requires less inventory than the existing split flange system.

By using the new X5, X7 and X9 fittings, distributors can streamline inventory and can still respond to customer needs. Before the introduction of the full flange system, distributors needed to stock both ISO 6162 fittings to be prepared.

For more information about Full Flange System please refer to pages Dd-18, Dd-19, Df-19, Df-20, Eb-4 and Eb-5



1X577-20-20

Straight
ISO 6162-1 or ISO 6162-2 fitting
Alternative to 15, 4A and 6A

1X777-20-20

45°
ISO 6162-1 or ISO 6162-2 fitting
Alternative to 17, 4F and 6F

1X977-20-20

90°
ISO 6162-1 or ISO 6162-2 fitting
Alternative to 19, 4N and 6N

High Pressure GLOBALCORE™

| Hoses | | | Page |
|-------|------------------------------|----------------------------------------------|-------|
| Best | 722 <i>No-Skive</i> | Standard | Daa-1 |
| Best | 722TC <i>No-Skive</i> | High abrasion resistance | Daa-2 |
| Best | 722ST <i>No-Skive</i> | Extreme abrasion resistance | Daa-3 |
| Best | 787 <i>No-Skive</i> | Compact Spiral | Daa-4 |
| Best | 787TC <i>No-Skive</i> | Compact Spiral – High abrasion resistance | Daa-5 |
| Best | 787ST <i>No-Skive</i> | Compact Spiral – Extreme abrasion resistance | Daa-6 |
| Best | 797 <i>No-Skive</i> | Compact Spiral | Daa-7 |
| Best | 797TC <i>No-Skive</i> | Compact Spiral – High abrasion resistance | Daa-8 |
| Best | 797ST <i>No-Skive</i> | Compact Spiral – Extreme abrasion resistance | Daa-9 |

| | |
|------------------|---------|
| Fittings Series | 77 |
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Parker Hannifin assumes no liability for typographical errors or other errors

Parkrimp

Standard

722 **Best**

Daa-1 

No-Skive GlobalCore
Exceeds ISO 18752-BC

High abrasion resistance

722TC **Best**

Daa-2 

No-Skive GlobalCore Tough Cover
Supérieur à ISO 18752-BC

Extreme abrasion resistance

722ST **Best**

Daa-3 

No-Skive GlobalCore Super Tough
Exceeds ISO 18752-BC

Compact Spiral

787 **Best**

Daa-4 

No-Skive GlobalCore Compact Spiral™
Sizes -4 to -6 exceed ISO 18752-AC

797 **Best**

Daa-7 

No-Skive GlobalCore Compact Spiral™
Size -4 exceeds ISO 18752-AC

Compact Spiral – High abrasion resistance

787TC **Best**

Daa-5 

No-Skive GlobalCore Compact Spiral™
Tough Cover

797TC **Best**

Daa-8 

No-Skive GlobalCore Compact Spiral™
Tough Cover

Compact Spiral – Extreme abrasion resistance

787ST **Best**

Daa-6 

No-Skive GlobalCore Compact Spiral™
Super Tough

797ST **Best**

Daa-9 

No-Skive GlobalCore Compact Spiral™
Super Tough

722

No-Skive GlobalCore

Exceeds ISO 18752-BC



- *No-Skive* hose construction
- ½ ISO 18752 minimum bend radius
- 28 MPa constant working pressure
- Exceeds ISO 18752 BC performance specification
- 4-spiral construction for longer life in high-impulse, heavy-duty cycle applications

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

Exceed ISO 18752-BC

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



Series 43 you'll find in the Medium Pressure chapter Cb

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 722-6 | 10 | 3/8 | -6 | 9.5 | 19.9 | 28.0 | 4000 | 112.0 | 16000 | 65 | 0.60 |
| 722-8 | 12 | 1/2 | -8 | 12.7 | 22.7 | 28.0 | 4000 | 112.0 | 16000 | 90 | 0.80 |
| 722-10 | 16 | 5/8 | -10 | 15.9 | 26.4 | 28.0 | 4000 | 112.0 | 16000 | 100 | 1.10 |
| 722-12 | 19 | 3/4 | -12 | 19.1 | 30.7 | 28.0 | 4000 | 112.0 | 16000 | 120 | 1.40 |
| 722-16 | 25 | 1 | -16 | 25.4 | 37.8 | 28.0 | 4000 | 112.0 | 16000 | 150 | 1.99 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



722TC

No-Skive GlobalCore Tough Cover

Exceeds ISO 18752-BC

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

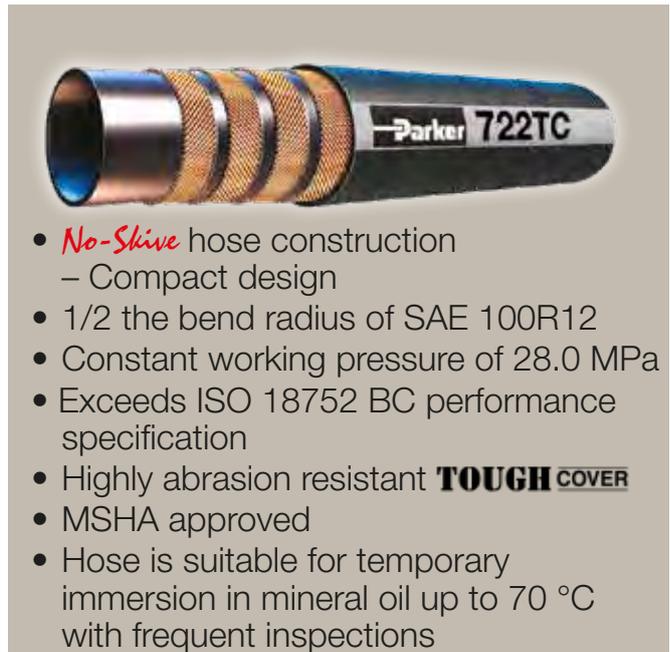
SAE 100R12 – EN 856 Type R12 –
ISO 3862 Type R12

Construction

Inner tube: Nitrile (NBR)
Reinforcement: Four spiral high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C
Water max. +85 °C



- **No-Skive** hose construction
– Compact design
- 1/2 the bend radius of SAE 100R12
- Constant working pressure of 28.0 MPa
- Exceeds ISO 18752 BC performance specification
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

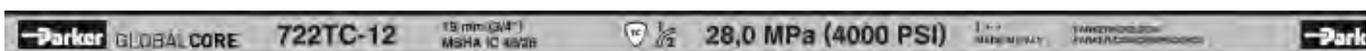


Series 43 you'll find in the Medium Pressure chapter Cb

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 722TC-6 | 10 | 3/8 | -6 | 9.5 | 19.9 | 28.0 | 4000 | 112.0 | 16000 | 65 | 0.60 |
| 722TC-8 | 12 | 1/2 | -8 | 12.7 | 22.7 | 28.0 | 4000 | 112.0 | 16000 | 90 | 0.80 |
| 722TC-10 | 16 | 5/8 | -10 | 15.9 | 26.4 | 28.0 | 4000 | 112.0 | 16000 | 100 | 1.10 |
| 722TC-12 | 19 | 3/4 | -12 | 19.1 | 30.7 | 28.0 | 4000 | 112.0 | 16000 | 120 | 1.40 |
| 722TC-16 | 25 | 1 | -16 | 25.4 | 37.8 | 28.0 | 4000 | 112.0 | 16000 | 150 | 1.99 |

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



722ST

No-Skive GlobalCore Super Tough

Exceeds ISO 18752-BC



- **No-Skive** hose construction
- ½ ISO 18752 minimum bend radius
- 28 MPa constant working pressure
- Exceeds ISO 18752 BC performance specification
- Extreme abrasion resistant **SUPER TOUGH** cover
- 4-spiral construction for longer life in high-impulse, heavy-duty cycle applications

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

Exceeds ISO 18752-BC

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four spiral high-tensile steel wire
- Cover: Synthetic rubber with a special polyethylene coating

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C

Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



Series 43 you'll find in the Medium Pressure chapter Cb

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 722ST-6 | 10 | 3/8 | -6 | 9.5 | 19.9 | 28.0 | 4000 | 112.0 | 16000 | 65 | 0.60 |
| 722ST-8 | 12 | 1/2 | -8 | 12.7 | 22.7 | 28.0 | 4000 | 112.0 | 16000 | 90 | 0.80 |
| 722ST-10 | 16 | 5/8 | -10 | 15.9 | 26.4 | 28.0 | 4000 | 112.0 | 16000 | 100 | 1.10 |
| 722ST-12 | 19 | 3/4 | -12 | 19.1 | 30.7 | 28.0 | 4000 | 112.0 | 16000 | 120 | 1.40 |
| 722ST-16 | 25 | 1 | -16 | 25.4 | 37.8 | 28.0 | 4000 | 112.0 | 16000 | 150 | 1.99 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



787

No-Skive GlobalCore Compact Spiral™

Sizes -4 to -6 exceed ISO 18752-AC
 Sizes -8 to -32 exceed ISO 18752-BC



- 1/2 the bend radius of SAE 100R13
- Constant working pressure of 35.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %

Primary Applications

On- & offshore, construction, injection moulding, mining

Applicable Specifications

Exceeds ISO 18752-AC/BC

Construction

Inner tube: Proprietary synthetic rubber
 Reinforcement: Two braid steel wire for sizes -4 to -6,
 four or six compact spiral steel wire
 for sizes - 8 to -32
 Cover: Synthetic rubber

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils.
 Wide Compatibility exceeding Column III, with additional
 chemical resistance, especially for diesel and biodiesel.
 Consult the chemical compatibility section on
 pages **Ab-26 to Ab-34** for more detailed information.

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C
 Water max. +85 °C

Fitting Series

Series 43/48 for sizes -4 and -6
 Series 77 for sizes -8 up to -32



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 787-4 | 6 | 1/4 | 4 | 6.3 | 13.0 | 35.0 | 5000 | 140.0 | 20000 | 50 | 0.31 |
| 787-6 | 10 | 3/8 | -6 | 10.0 | 17.2 | 35.0 | 5000 | 140.0 | 20000 | 63 | 0.42 |
| 787-8 | 12 | 1/2 | -8 | 12.7 | 21.1 | 35.0 | 5000 | 140.0 | 20000 | 90 | 0.67 |
| 787-10 | 16 | 5/8 | -10 | 15.9 | 23.9 | 35.0 | 5000 | 140.0 | 20000 | 100 | 0.80 |
| 787-12 | 19 | 3/4 | -12 | 19.1 | 27.9 | 35.0 | 5000 | 140.0 | 20000 | 120 | 1.16 |
| 787-16 | 25 | 1 | -16 | 25.4 | 35.7 | 35.0 | 5000 | 140.0 | 20000 | 150 | 1.74 |
| 787-20 | 31 | 1 1/4 | -20 | 31.8 | 44.9 | 35.0 | 5000 | 140.0 | 20000 | 210 | 2.89 |
| 787-24 | 38 | 1 1/2 | -24 | 38.1 | 52.8 | 35.0 | 5000 | 140.0 | 20000 | 255 | 3.96 |
| 787-32 | 51 | 2 | -32 | 50.8 | 67.6 | 35.0 | 5000 | 140.0 | 20000 | 318 | 6.50 |

Replace the hose when any deformation or damage on the hose cover are visible.
 The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



787TC

No-Skive GlobalCore Compact Spiral™

Tough Cover

Sizes -4 to -6 exceed ISO 18752-AC
Sizes -8 to -32 exceed ISO 18752-DC

Primary Applications

On- & offshore, construction, injection moulding, mining

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceeds SAE 100R13 – ISO 3862 Type R13 –
EN 856 Type R13 – ISO 18752-AC/DC

Construction

Inner tube: Proprietary synthetic rubber
Reinforcement: Two braid steel wire for sizes -4 to -6,
four or six compact spiral steel wire
for sizes - 8 to -32
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C
(sizes -4 to -6 up to +100 °C)

Exception: Air max. +70 °C
Water max. +85 °C



- 1/2 the bend radius of SAE 100R13
- Constant working pressure of 35.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils.
Wide Compatibility exceeding Column III, with additional chemical resistance, especially for diesel and biodiesel.
Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Series 43/48 for sizes -4 and -6



Series 77 for sizes -8 up to -32

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 787TC-4 | 6 | 1/4 | 4 | 6.3 | 13.0 | 35.0 | 5000 | 140.0 | 20000 | 50 | 0.31 |
| 787TC-6 | 10 | 3/8 | -6 | 10.0 | 17.2 | 35.0 | 5000 | 140.0 | 20000 | 63 | 0.42 |
| 787TC-8 | 12 | 1/2 | -8 | 12.7 | 21.1 | 35.0 | 5000 | 140.0 | 20000 | 90 | 0.67 |
| 787TC-10 | 16 | 5/8 | -10 | 15.9 | 23.9 | 35.0 | 5000 | 140.0 | 20000 | 100 | 0.80 |
| 787TC-12 | 19 | 3/4 | -12 | 19.1 | 27.9 | 35.0 | 5000 | 140.0 | 20000 | 120 | 1.16 |
| 787TC-16 | 25 | 1 | -16 | 25.4 | 35.7 | 35.0 | 5000 | 140.0 | 20000 | 150 | 1.74 |
| 787TC-20 | 31 | 1 1/4 | -20 | 31.8 | 44.9 | 35.0 | 5000 | 140.0 | 20000 | 210 | 2.89 |
| 787TC-24 | 38 | 1 1/2 | -24 | 38.1 | 52.8 | 35.0 | 5000 | 140.0 | 20000 | 255 | 3.96 |
| 787TC-32 | 51 | 2 | -32 | 50.8 | 67.6 | 35.0 | 5000 | 140.0 | 20000 | 318 | 6.50 |

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



787ST

No-Skive GlobalCore Compact Spiral™

Super Tough

Sizes -4 to -6 exceed ISO 18752-AC
Sizes -8 to -32 exceed ISO 18752-DC

Primary Applications

On- & offshore, construction, injection moulding, mining

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceeds SAE 100R13 – ISO 3862 Type R13 –
EN 856 Type R13 – ISO 18752-AC/DC

Construction

Inner tube: Proprietary synthetic rubber
Reinforcement: Two braid steel wire for sizes -4 to -6,
four or six compact spiral steel wire
for sizes -8 to -32
Cover: Synthetic rubber
with a special polyethylene coating

Temperature Range -40 °C up to +125 °C
(sizes -4 to -6 up to +100 °C)

Exception: Air max. +70 °C
Water max. +85 °C



- 1/2 the bend radius of SAE 100R13
 - Constant working pressure of 35.0 MPa
 - Reduced O.D. and new construction lead to superior flexibility
 - 1/3 less effort to bend
 - Weight reduction – up to 26 %
 - Extreme abrasion resistant
- SUPER TOUGH** cover

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils.
Wide Compatibility exceeding Column III, with additional
chemical resistance, especially for diesel and biodiesel.
Consult the chemical compatibility section on
pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Series 43/48 for sizes -4 and -6



Series 77 for sizes -8 up to -32



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 787ST-4 | 6 | 1/4 | 4 | 6.3 | 13.0 | 35.0 | 5000 | 140.0 | 20000 | 50 | 0.31 |
| 787ST-6 | 10 | 3/8 | -6 | 10.0 | 17.2 | 35.0 | 5000 | 140.0 | 20000 | 63 | 0.42 |
| 787ST-8 | 12 | 1/2 | -8 | 12.7 | 21.1 | 35.0 | 5000 | 140.0 | 20000 | 90 | 0.67 |
| 787ST-10 | 16 | 5/8 | -10 | 15.9 | 23.9 | 35.0 | 5000 | 140.0 | 20000 | 100 | 0.80 |
| 787ST-12 | 19 | 3/4 | -12 | 19.1 | 27.9 | 35.0 | 5000 | 140.0 | 20000 | 120 | 1.16 |
| 787ST-16 | 25 | 1 | -16 | 25.4 | 35.7 | 35.0 | 5000 | 140.0 | 20000 | 150 | 1.74 |
| 787ST-20 | 31 | 1 1/4 | -20 | 31.8 | 44.9 | 35.0 | 5000 | 140.0 | 20000 | 210 | 2.89 |
| 787ST-24 | 38 | 1 1/2 | -24 | 38.1 | 52.8 | 35.0 | 5000 | 140.0 | 20000 | 255 | 3.96 |
| 787ST-32 | 51 | 2 | -32 | 50.8 | 67.6 | 35.0 | 5000 | 140.0 | 20000 | 318 | 6.50 |

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

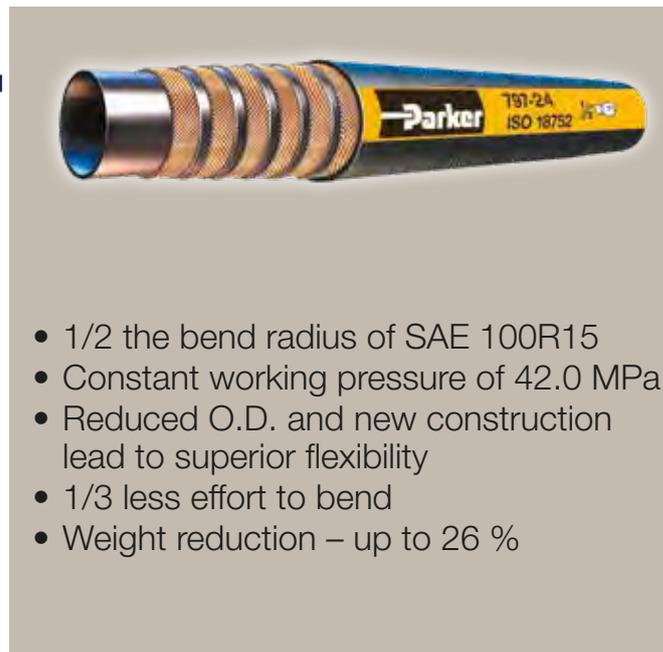


797

No-Skive GlobalCore Compact Spiral™

Size -4 exceeds ISO 18752-AC

Sizes -6 to -32 exceed ISO 18752-BC



- 1/2 the bend radius of SAE 100R15
- Constant working pressure of 42.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %

Primary Applications

On- & offshore, construction, injection moulding, mining

Applicable Specifications

Exceed ISO 18752-AC/CC/DC

Construction

- Inner tube: Proprietary synthetic rubber
 Reinforcement: Two braid steel wire for size -4,
 four or six compact spiral steel wire
 for sizes - 6 to -32
 Cover: Synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils.
 Wide Compatibility exceeding Column III, with additional
 chemical resistance, especially for diesel and biodiesel.
 Consult the chemical compatibility section on
 pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Series 43/48 for size -4



Series 43 for size -6



Series 77 for sizes -8 up to -32



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 797-4 | 6 | 1/4 | 4 | 6.3 | 13.0 | 42.0 | 6000 | 168.0 | 24000 | 50 | 0.31 |
| 797-6 | 10 | 3/8 | -6 | 10.0 | 17.0 | 42.0 | 6000 | 168.0 | 24000 | 63 | 0.46 |
| 797-8 | 12 | 1/2 | -8 | 12.7 | 21.1 | 42.0 | 6000 | 168.0 | 24000 | 100 | 0.67 |
| 797-10 | 16 | 5/8 | -10 | 15.9 | 23.9 | 42.0 | 6000 | 168.0 | 24000 | 115 | 0.80 |
| 797-12 | 19 | 3/4 | -12 | 19.1 | 27.9 | 42.0 | 6000 | 168.0 | 24000 | 135 | 1.16 |
| 797-16 | 25 | 1 | -16 | 25.4 | 35.7 | 42.0 | 6000 | 168.0 | 24000 | 165 | 1.74 |
| 797-20 | 31 | 1 1/4 | -20 | 31.8 | 44.9 | 42.0 | 6000 | 168.0 | 24000 | 225 | 2.89 |
| 797-24 | 38 | 1 1/2 | -24 | 38.1 | 52.8 | 42.0 | 6000 | 168.0 | 24000 | 305 | 3.96 |
| 797-32 | 51 | 2 | -32 | 50.8 | 67.6 | 42.0 | 6000 | 168.0 | 24000 | 380 | 6.50 |

Replace the hose when any deformation or damage on the hose cover are visible.
 The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



797TC

No-Skive GlobalCore Compact Spiral™

Tough Cover

Size -4 exceeds ISO 18752-AC
 Sizes -8 to -20 exceed ISO 18752-DC
 Sizes -6, -24, -32 exceed ISO 18752-CC

Primary Applications

On- & offshore, construction, injection moulding, mining

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceeds SAE 100R15 – ISO 3862 Type R15 –
 ISO 18752-AC/CC/DC

Construction

Inner tube: Proprietary synthetic rubber
 Reinforcement: Two braid steel wire for size -4,
 four or six compact spiral steel wire
 for sizes - 6 to -32
 Cover: Highly abrasion resistance
 MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C
 (size -4 up to +100 °C)

Exception: Air max. +70 °C
 Water max. +85 °C



- 1/2 the bend radius of SAE 100R15
- Constant working pressure of 42.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils.
 Wide Compatibility exceeding Column III, with additional chemical resistance, especially for diesel and biodiesel.
 Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Series 43/48 for size-4



Series 43 for size -6



Series 77 for sizes -8 up to -32



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 797TC-4 | 6 | 1/4 | 4 | 6.3 | 13.0 | 42.0 | 6000 | 168.0 | 24000 | 50 | 0.31 |
| 797TC-6 | 10 | 3/8 | -6 | 10.0 | 17.0 | 42.0 | 6000 | 168.0 | 24000 | 63 | 0.46 |
| 797TC-8 | 12 | 1/2 | -8 | 12.7 | 21.1 | 42.0 | 6000 | 168.0 | 24000 | 100 | 0.67 |
| 797TC-10 | 16 | 5/8 | -10 | 15.9 | 23.9 | 42.0 | 6000 | 168.0 | 24000 | 115 | 0.80 |
| 797TC-12 | 19 | 3/4 | -12 | 19.1 | 27.9 | 42.0 | 6000 | 168.0 | 24000 | 135 | 1.16 |
| 797TC-16 | 25 | 1 | -16 | 25.4 | 35.7 | 42.0 | 6000 | 168.0 | 24000 | 165 | 1.74 |
| 797TC-20 | 31 | 1 1/4 | -20 | 31.8 | 44.9 | 42.0 | 6000 | 168.0 | 24000 | 225 | 2.89 |
| 797TC-24 | 38 | 1 1/2 | -24 | 38.1 | 52.8 | 42.0 | 6000 | 168.0 | 24000 | 305 | 3.96 |
| 797TC-32 | 51 | 2 | -32 | 50.8 | 67.6 | 42.0 | 6000 | 168.0 | 24000 | 380 | 6.50 |

Replace the hose when any deformation or damage on the hose cover are visible.
 The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



797ST

No-Skive GlobalCore Compact Spiral™

Super Tough

Size -4 exceeds ISO 18752-AC
 Sizes -8 to -20 exceed ISO 18752-DC
 Sizes -6, -24, -32 exceed ISO 18752-CC

Primary Applications

On- & offshore, construction, injection moulding, mining

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceeds SAE 100R15 – ISO 3862 Type R15 –
 ISO 18752-AC/CC/DC

Construction

Inner tube: Proprietary synthetic rubber
 Reinforcement: Two braid steel wire for size -4,
 four or six compact spiral steel wire
 for sizes - 6 to -32
 Cover: Synthetic rubber
 with a special polyethylene coating

Temperature Range -40 °C up to +125 °C
 (size -4 up to +100 °C)

Exception: Air max. +70 °C
 Water max. +85 °C



- 1/2 the bend radius of SAE 100R15
- Constant working pressure of 42.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %
- Extreme abrasion resistant

SUPER TOUGH COVER

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils.
 Wide Compatibility exceeding Column III, with additional
 chemical resistance, especially for diesel and biodiesel.
 Consult the chemical compatibility section on
 pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Series 43/48 for size -4



Series 43 for size -6



Series 77 for sizes -8 up to -32



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 797ST-4 | 6 | 1/4 | 4 | 6.3 | 13.0 | 42.0 | 6000 | 168.0 | 24000 | 50 | 0.31 |
| 797ST-6 | 10 | 3/8 | -6 | 10.0 | 17.0 | 42.0 | 6000 | 168.0 | 24000 | 63 | 0.46 |
| 797ST-8 | 12 | 1/2 | -8 | 12.7 | 21.1 | 42.0 | 6000 | 168.0 | 24000 | 100 | 0.67 |
| 797ST-10 | 16 | 5/8 | -10 | 15.9 | 23.9 | 42.0 | 6000 | 168.0 | 24000 | 115 | 0.80 |
| 797ST-12 | 19 | 3/4 | -12 | 19.1 | 27.9 | 42.0 | 6000 | 168.0 | 24000 | 135 | 1.16 |
| 797ST-16 | 25 | 1 | -16 | 25.4 | 35.7 | 42.0 | 6000 | 168.0 | 24000 | 165 | 1.74 |
| 797ST-20 | 31 | 1 1/4 | -20 | 31.8 | 44.9 | 42.0 | 6000 | 168.0 | 24000 | 225 | 2.89 |
| 797ST-24 | 38 | 1 1/2 | -24 | 38.1 | 52.8 | 42.0 | 6000 | 168.0 | 24000 | 305 | 3.96 |
| 797ST-32 | 51 | 2 | -32 | 50.8 | 67.6 | 42.0 | 6000 | 168.0 | 24000 | 380 | 6.50 |

Replace the hose when any deformation or damage on the hose cover are visible.
 The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



High Pressure

| Hoses | | Page | | |
|------------------------|-------------------------------------------|-----------------------------------|-----------------------------|--------|
| Parkrimp | 371LT <i>No-Skive</i> | 3-braids low temperature | Dab-1 | |
| | 372 <i>No-Skive</i> | 3-braids standard | Dab-2 | |
| | 372RH <i>No-Skive</i> | 3-braids railway | Dab-3 | |
| | 372TC <i>No-Skive</i> | 3-braids high abrasion resistance | Dab-4 | |
| | Good SX35 <i>No-Skive</i> | Standard | Dab-5 | |
| | SX35LT <i>No-Skive</i> | Low temperature | Dab-6 | |
| | Good SX35TC <i>No-Skive</i> | High abrasion resistance | Dab-7 | |
| | Good SX42 <i>No-Skive</i> | Standard | Dab-8 | |
| | SX42LT <i>No-Skive</i> | Low temperature | Dab-9 | |
| | Good SX42TC <i>No-Skive</i> | High abrasion resistance | Dab-10 | |
| | Better 701 <i>No-Skive</i> | Standard | Dab-11 | |
| | 701TC <i>No-Skive</i> | High abrasion resistance | Dab-12 | |
| | Better 731 <i>No-Skive</i> | Standard | Dab-13 | |
| | 731TC <i>No-Skive</i> | High abrasion resistance | Dab-14 | |
| | 774 <i>No-Skive</i> | Phosphate Ester | Dab-15 | |
| | 797RH | Railway | Dab-16 | |
| | F42 <i>No-Skive</i> | Phosphate Ester | Dab-17 | |
| | ParLock | H29 | Standard | Dab-18 |
| | | H29TC | High abrasion resistance | Dab-19 |
| | | H29ST | Extreme abrasion resistance | Dab-20 |
| H31 | | Standard | Dab-21 | |
| H31TC | | High abrasion resistance | Dab-22 | |
| H31ST | | Extreme abrasion resistance | Dab-23 | |
| R35 | | Standard | Dab-24 | |
| R35TC/RS35TC-48 | | High abrasion resistance | Dab-25 | |
| R42 | | Standard | Dab-26 | |
| R42TC | | High abrasion resistance | Dab-27 | |
| R42ST | | Extreme abrasion resistance | Dab-28 | |
| R50TC/R56TC | | High abrasion resistance | Dab-29 | |
| BPK | | Water-Blasting | Dab-30 | |
| FA35 | | Firearmor Blowout Preventer | Dab-31 | |
| RD35TC | | High abrasion resistance | Dab-32 | |
| CEM69TC | | Cementing hose | Dab-33 | |

| Fittings Series | Parkrimp | | | ParLock | | | |
|-------------------------|----------|-------|-------|---------|-------|-----|----|
| | 70 | 73 | 77 | VS | V4/V6 | V5 | WB |
| Chapter | Db | Dc | Dd | De | Df | Dg | Dh |
| Shell | | | | 1 | 1 | 1 | 1 |
| DIN – Metric | 1–4 | 1–4 | 1–4 | 2–5 | 2–5 | 2–3 | 2 |
| BSP | 5–7 | 5–6 | 5–6 | 6–7 | 6–8 | | 3 |
| SAE | 8–10 | 7–9 | 7–9 | 8–10 | 9–11 | | 4 |
| Flange | 11–14 | 10–15 | 10–20 | 11–13 | 12–22 | | |
| ORFS | 15–17 | 16–18 | 21–23 | 14–15 | 23–25 | | |
| French Standard | | | 24 | | | | |
| Others | 18 | 19 | | | | | |
| Special Fittings | | 20 | 25 | | | | |

Parker Hannifin assumes no liability for typographical errors or other errors

Parkrimp

3-braids standard



3-braids low temperature



3-braids high abrasion resistance



3-braids railway



Parkrimp

Standard

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>SX35 Good</p> <p>Dab-5 </p> <p><i>No-Skive Multispiral</i> ISO 3862 Type R13 – Parker Specifications</p> | <p>SX42 Good</p> <p>Dab-8 </p> <p><i>No-Skive Multispiral</i> ISO 3862 Type R15 – Parker Specifications</p> | <p>701 Better</p> <p>Dab-11 </p> <p><i>No-Skive Multispiral</i> Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP</p> | <p>731 Better</p> <p>Dab-13 </p> <p><i>No-Skive Multispiral</i> Exceeds ISO 3862 Type 4SH – EN 856 Type 4SH</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Low temperature

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>SX35LT</p> <p>Dab-6 </p> <p><i>No-Skive Multispiral</i> Parker Specification</p> | <p>SX42LT</p> <p>Dab-9 </p> <p><i>No-Skive Multispiral</i> Parker Specification</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Phosphate Ester

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>774</p> <p>Dab-15 </p> <p><i>No-Skive Multispiral</i> For phosphate ester base fluids</p> | <p>F42</p> <p>Dab-17 </p> <p><i>No-Skive Multispiral</i> For phosphate ester base fluids</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

High abrasion resistance

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>SX35TC Good</p> <p>Dab-7 </p> <p><i>No-Skive Multispiral Tough Cover</i> ISO 3862 Type R13 – Parker Specifications</p> | <p>SX42TC Good</p> <p>Dab-10 </p> <p><i>No-Skive Multispiral Tough Cover</i> ISO 3862 Type R15 – Parker Specifications</p> | <p>701TC</p> <p>Dab-12 </p> <p><i>No-Skive Multispiral Tough Cover</i> ISO 3862 Type 4SP – EN 856 Type 4SP</p> | <p>731TC</p> <p>Dab-14 </p> <p><i>No-Skive Multispiral</i> ISO 3862 Type 4SH – EN 856 Type 4SH</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Railway

797RH

Dab-16 

No-Skive Compact Spiral™
Fire-retardant cover

ParLock

Standard

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>H29 Dab-18</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SH – EN 856 Type 4SH</p> | <p>H31 Dab-21</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP</p> | <p>R35 Dab-24</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R13 – Parker Specifications</p> | <p>R42 Dab-26</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 – Parker Specifications</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

High abrasion resistance

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>H29TC Dab-19</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SH – EN 856 Type 4SH</p> | <p>H31TC Dab-22</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP</p> | <p>R35TC/RS35TC-48 Dab-25</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R13 – Parker Specifications</p> | <p>R42TC Dab-27</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 – Parker Specifications</p> |
| <p>R50TC/R56TC Dab-29</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 – Parker Specifications</p> | <p>RD35TC Dab-32</p>  <p>ParLock Multispiral Drilling Application API 7K Grade D/ISO 14693</p> | <p>CEM69TC Dab-33</p>  <p>Parlock Multispiral Cementing Hose According to API 7K</p> | |

Extreme abrasion resistance

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>H29ST Dab-20</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SH – EN 856 Type 4SH</p> | <p>H31ST Dab-23</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP</p> | <p>R42ST Dab-28</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 – Parker Specifications</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Water-Blasting

BPK
Dab-30



Blastopak ParLock Multispiral
DIN EN 1829-2

Firearmor Blowout Preventer

FA35
Dab-31



**ParLock Multispiral Firearmor Blowout
Preventer Application**
Meets API 16D – Lloyd's 1000/499 fire test

371LT

No-Skive Compact

3-wire braid low-temperature compact hose with 4SP working pressures

Primary Applications

Mobile applications in low temperature environments:
Forestry machines, refrigerated warehouses

Applicable Specifications

Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Three high-tensile steel wire braids
Cover: Synthetic rubber

Temperature Range -50 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C



- **No-Skive** hose construction – Compact design
- Excellent ozone resistance
- Temperature range from -50 °C up to +100 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 371LT-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 44.5 | 6500 | 178.0 | 25800 | 120 | 0.73 |
| 371LT-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 160 | 0.90 |
| 371LT-10 | 16 | 5/8 | -10 | 15.9 | 28.2 | 35.0 | 5000 | 140.0 | 20000 | 210 | 1.09 |
| 371LT-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 35.0 | 5000 | 140.0 | 20000 | 260 | 1.36 |
| 371LT-16 | 25 | 1 | -16 | 25.4 | 39.7 | 28.0 | 4000 | 112.0 | 16000 | 310 | 1.78 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



372

No-Skive Compact

3-wire braid compact hose with
4SP working pressures

Primary Applications

General high pressure small bending radii hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Parker Specification

Construction

Inner tube: Nitrile (NBR)
Reinforcement: Three high-tensile steel wire braids
Cover: Synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- *No-Skive* hose construction – Compact design
- Nitrile (NBR) inner tube for extended fluid compatibility

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| 372-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 44.5 | 6500 | 178.0 | 25800 | 120 | 0.73 |
| 372-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 160 | 0.90 |
| 372-10 | 16 | 5/8 | -10 | 15.9 | 28.2 | 35.0 | 5000 | 140.0 | 20000 | 210 | 1.09 |
| 372-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 35.0 | 5000 | 140.0 | 20000 | 260 | 1.36 |
| 372-16 | 25 | 1 | -16 | 25.4 | 39.7 | 28.0 | 4000 | 112.0 | 16000 | 310 | 1.78 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



372RH

No-Skive Compact

3-wire braid with fire-retardant cover

Primary Applications

Dynamic and static high-pressure hydraulic systems

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Parker Specification

Working pressure and O.D. to EN 856-4SP

Construction

Inner tube: Nitrile (NBR)

Reinforcement: Three high-tensile steel wire braids

Cover: Fire retardant synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- **No-Skive** hose construction
- Nitrile (NBR) inner tube – high chemical resistance
- Small bend radii
- Fire-retardant cover
- Railway approved:
 - European Standard EN45545 HL2 for R22 (internal) and HL3 for R23 (external)
 - ISO 15540

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

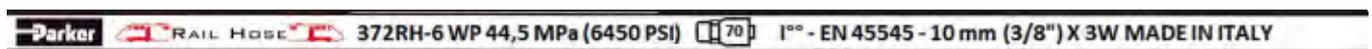
Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 372RH-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 44.5 | 6500 | 178.0 | 25800 | 120 | 0.73 |
| 372RH-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 160 | 0.90 |
| 372RH-10 | 16 | 5/8 | -10 | 15.9 | 28.2 | 35.0 | 5000 | 140.0 | 20000 | 210 | 1.09 |
| 372RH-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 35.0 | 5000 | 140.0 | 20000 | 260 | 1.36 |
| 372RH-16 | 25 | 1 | -16 | 25.4 | 39.7 | 28.0 | 4000 | 112.0 | 16000 | 310 | 1.78 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



372TC

No-Skive Compact

3-wire braid compact hose with 4SP working pressures

Primary Applications

General high pressure hydraulic applications (typically in the mobile industry)

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

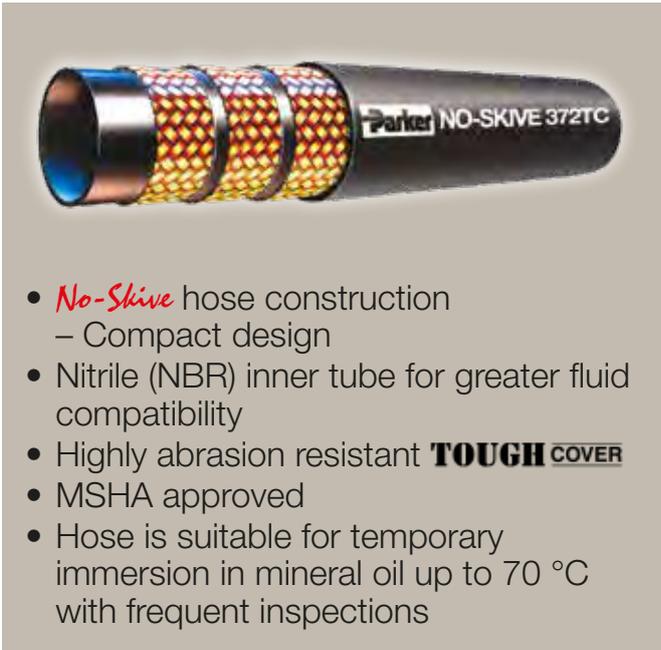
Parker Specification – working pressures and outside diameters according to EN 856-4SP

Construction

Inner tube: Nitrile (NBR)
Reinforcement: Three high-tensile steel wire braids
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C



- **No-Skive** hose construction – Compact design
- Nitrile (NBR) inner tube for greater fluid compatibility
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 372TC-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 44.5 | 6500 | 178.0 | 25800 | 120 | 0.73 |
| 372TC-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 160 | 0.90 |
| 372TC-10 | 16 | 5/8 | -10 | 15.9 | 28.2 | 35.0 | 5000 | 140.0 | 20000 | 210 | 1.09 |
| 372TC-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 35.0 | 5000 | 140.0 | 20000 | 260 | 1.36 |
| 372TC-16 | 25 | 1 | -16 | 25.4 | 39.7 | 28.0 | 4000 | 112.0 | 16000 | 310 | 1.78 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

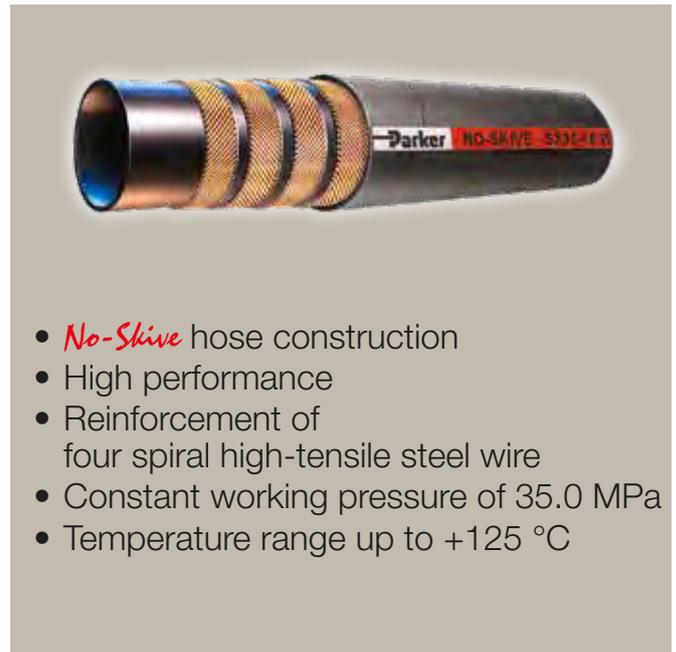
Hose layline example



SX35

No-Skive Multispiral

ISO 3862 Type R13 – Parker Specifications



- *No-Skive* hose construction
- High performance
- Reinforcement of four spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa
- Temperature range up to +125 °C

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 3862 Type R13 – Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C
Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| SX35-12 | 20 | 3/4 | -12 | 19.1 | 32.4 | 35.0 | 5000 | 140.0 | 20000 | 240 | 1.72 |
| SX35-16 | 25 | 1 | -16 | 25.4 | 38.2 | 35.0 | 5000 | 140.0 | 20000 | 300 | 2.14 |
| SX35-20 | 32 | 1 1/4 | -20 | 31.5 | 46.3 | 35.0 | 5000 | 140.0 | 20000 | 420 | 2.96 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SX35LT

No-Skive Multispiral

Parker Specification

Primary Applications

General high pressure hydraulic applications for very low temperature environments

Applicable Specifications

Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Four high-tensile steel wires
Cover: Synthetic rubber

Temperature Range -57 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- **No-Skive** hose construction
- Superior performances in extreme cold conditions
- Reinforcement of four high tensile steel wires
- Constant working pressure of 35.0 MPa
- Low Temperature range up to -57 °C (-70 °F)

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| SX35LT-12 | 20 | 3/4 | -12 | 19.1 | 32.4 | 35.0 | 5000 | 140.0 | 20000 | 240 | 1.72 |
| SX35LT-16 | 25 | 1 | -16 | 25.4 | 38.2 | 35.0 | 5000 | 140.0 | 20000 | 300 | 2.14 |
| SX35LT-20 | 32 | 1 1/4 | -20 | 31.5 | 46.3 | 35.0 | 5000 | 140.0 | 20000 | 420 | 2.96 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SX35TC

No-Skive Multispiral Tough Cover

ISO 3862 Type R13 – Parker Specifications



- *No-Skive* hose construction
- High performance
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Reinforcement of four spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa
- Temperature range up to +125 °C

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 3862 Type R13 – Parker Specification

Construction

Inner tube: Synthetic rubber
 Reinforcement: Four spiral high-tensile steel wire
 Cover: Highly abrasion resistance
 MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C
 Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| SX35TC-12 | 20 | 3/4 | -12 | 19.1 | 32.4 | 35.0 | 5000 | 140.0 | 20000 | 240 | 1.72 |
| SX35TC-16 | 25 | 1 | -16 | 25.4 | 38.2 | 35.0 | 5000 | 140.0 | 20000 | 300 | 2.14 |
| SX35TC-20 | 32 | 1 1/4 | -20 | 31.5 | 46.3 | 35.0 | 5000 | 140.0 | 20000 | 420 | 2.96 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SX42

No-Skive Multispiral

ISO 3862 Type R15 – Parker Specifications



- *No-Skive* hose construction
- High performance
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa
- Temperature range up to +125 °C

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 3862 Type R15 – Parker Specification

Construction

Inner tube: Synthetic rubber
 Reinforcement: Four or six spiral high-tensile steel wire
 Cover: Synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C

Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Size -12

Size -16 and -20



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| SX42-12 | 20 | 3/4 | -12 | 19.1 | 32.4 | 42.0 | 6000 | 168.0 | 24000 | 260 | 1.72 |
| SX42-16 | 25 | 1 | -16 | 25.4 | 38.2 | 42.0 | 6000 | 168.0 | 24000 | 330 | 1.74 |
| SX42-20 | 32 | 1 1/4 | -20 | 31.5 | 46.3 | 42.0 | 6000 | 168.0 | 24000 | 400 | 2.98 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SX42LT

No-Skive Multispiral

Parker Specification



- **No-Skive** hose construction
- Superior performances in extreme cold conditions
- Reinforcement of four or six high tensile steel wires
- Constant working pressure of 42.0 MPa
- Low Temperature range up to -57 °C (-70 °F)

Primary Applications

General high pressure hydraulic applications for very low temperature environments

Applicable Specifications

Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wires
Cover: Synthetic rubber

Temperature Range -57 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Size -12

Size -16 and -20



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| SX42LT-12 | 20 | 3/4 | -12 | 19.1 | 32.4 | 42.0 | 6000 | 168.0 | 24000 | 260 | 1.72 |
| SX42LT-16 | 25 | 1 | -16 | 25.4 | 38.2 | 42.0 | 6000 | 168.0 | 24000 | 330 | 1.74 |
| SX42LT-20 | 32 | 1 1/4 | -20 | 31.5 | 46.3 | 42.0 | 6000 | 168.0 | 24000 | 400 | 2.98 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SX42TC

No-Skive Multispiral Tough Cover

ISO 3862 Type R15 – Parker Specifications



- *No-Skive* hose construction
- High performance
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa
- Temperature range up to +125 °C

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 3862 Type R15 – Parker Specification

Construction

Inner tube: Synthetic rubber
 Reinforcement: Four or six spiral high-tensile steel wire
 Cover: Highly abrasion resistance
 MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C
 Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Size -12

Size -16 and -20



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| SX42TC-12 | 20 | 3/4 | -12 | 19.1 | 32.4 | 42.0 | 6000 | 168.0 | 24000 | 260 | 1.72 |
| SX42TC-16 | 25 | 1 | -16 | 25.4 | 38.2 | 42.0 | 6000 | 168.0 | 24000 | 330 | 1.74 |
| SX42TC-20 | 32 | 1 1/4 | -20 | 31.5 | 46.3 | 42.0 | 6000 | 168.0 | 24000 | 400 | 2.98 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



701

No-Skive Multispiral

Exceeds ISO 3862 Type 4SP –
EN 856 Type 4SP

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

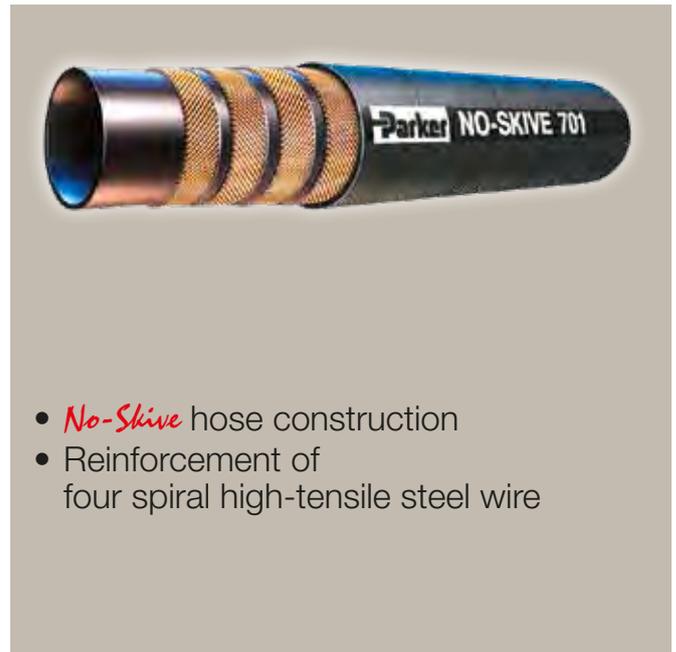
Exceed ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C



- **No-Skive** hose construction
- Reinforcement of four spiral high-tensile steel wire

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 701-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 45.0 | 6500 | 180.0 | 26000 | 180 | 0.78 |
| 701-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 230 | 0.93 |
| 701-10 | 16 | 5/8 | -10 | 15.9 | 28.2 | 35.0 | 5000 | 140.0 | 20000 | 250 | 1.15 |
| 701-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 35.0 | 5000 | 140.0 | 20000 | 300 | 1.58 |
| 701-16 | 25 | 1 | -16 | 25.4 | 39.7 | 28.0 | 4000 | 112.0 | 16000 | 340 | 2.04 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



701TC

No-Skive Multispiral Tough Cover

ISO 3862 Type 4SP – EN 856 Type 4SP

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- *No-Skive* hose construction
- Reinforcement of four spiral high-tensile steel wire
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 701TC-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 45.0 | 6500 | 180.0 | 26000 | 180 | 0.78 |
| 701TC-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 230 | 0.93 |
| 701TC-10 | 16 | 5/8 | -10 | 15.9 | 28.2 | 35.0 | 5000 | 140.0 | 20000 | 250 | 1.15 |
| 701TC-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 35.0 | 5000 | 140.0 | 20000 | 300 | 1.58 |
| 701TC-16 | 25 | 1 | -16 | 25.4 | 39.7 | 28.0 | 4000 | 112.0 | 16000 | 340 | 2.04 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



731

No-Skive Multispiral

Exceeds ISO 3862 Type 4SH –
EN 856 Type 4SH

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

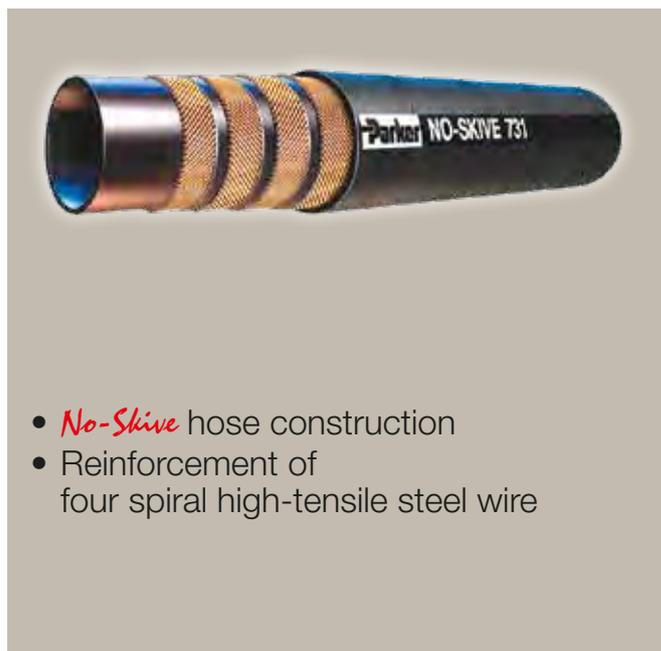
Exceed ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C



- *No-Skive* hose construction
- Reinforcement of four spiral high-tensile steel wire

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 731-12 | 19 | 3/4 | -12 | 19.1 | 32.0 | 42.0 | 6000 | 168.0 | 24000 | 280 | 1.72 |
| 731-16 | 25 | 1 | -16 | 25.4 | 39.0 | 38.0 | 5500 | 152.0 | 22000 | 340 | 2.14 |
| 731-20 | 31 | 1 1/4 | -20 | 31.8 | 45.0 | 32.0 | 4700 | 130.0 | 18800 | 460 | 2.96 |
| 731-24 | 38 | 1 1/2 | -24 | 38.1 | 53.0 | 29.0 | 4200 | 116.0 | 16800 | 560 | 3.20 |
| 731-32 | 51 | 2 | -32 | 50.8 | 68.0 | 25.0 | 3600 | 100.0 | 14400 | 700 | 5.30 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

Parker NO-SKIVE 731-12 WP 42,0 MPa (6000 PSI) MSHA XXXX 19 mm (3/4) X 4S EN 856-4SH/20/4Q91

731TC

No-Skive Multispiral

ISO 3862 Type 4SH – EN 856 Type 4SH

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +100 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- **No-Skive** hose construction
- Reinforcement of four spiral high-tensile steel wire
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

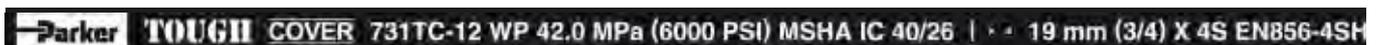
Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| 731TC-12 | 19 | 3/4 | -12 | 19.1 | 32.0 | 42.0 | 6000 | 168.0 | 24000 | 280 | 1.72 |
| 731TC-16 | 25 | 1 | -16 | 25.4 | 39.0 | 38.0 | 5500 | 152.0 | 22000 | 340 | 2.14 |
| 731TC-20 | 31 | 1 1/4 | -20 | 31.8 | 45.0 | 32.0 | 4700 | 130.0 | 18800 | 460 | 2.96 |
| 731TC-24 | 38 | 1 1/2 | -24 | 38.1 | 53.0 | 29.0 | 4200 | 116.0 | 16800 | 560 | 3.20 |
| 731TC-32 | 51 | 2 | -32 | 50.8 | 68.0 | 25.0 | 3600 | 100.0 | 14400 | 700 | 5.30 |

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



774

No-Skive Multispiral

For phosphate ester base fluids

Primary Applications

Test stands for aerospace, foundries, steel mills
High pressure hydraulic applications with phosphate ester fluids

Restrictions

Do not allow tube to contact any petroleum base fluids.
Use liquid soap as hose lubricant.

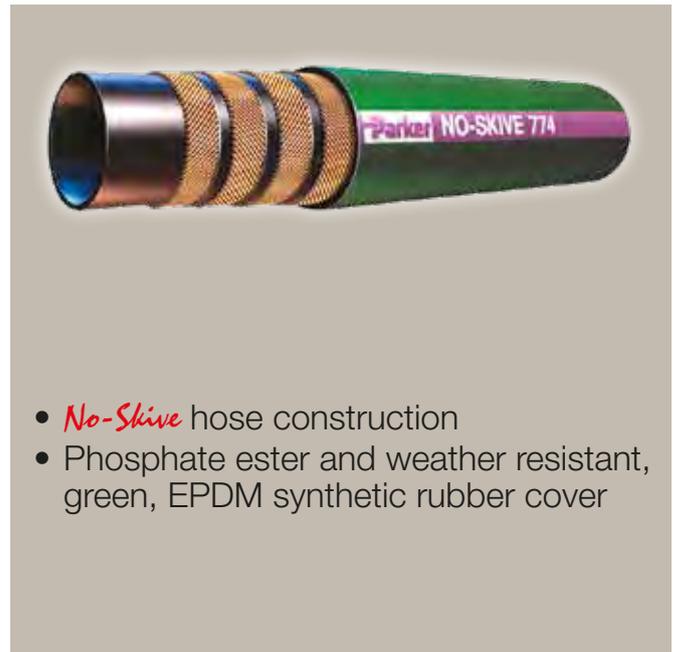
Applicable Specifications

Parker Specification

Construction

Inner tube: Phosphate ester resistant
EPDM synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: EPDM synthetic rubber, green,
phosphate ester and weather resistant

Temperature Range -40 °C up to +80 °C



- *No-Skive* hose construction
- Phosphate ester and weather resistant, green, EPDM synthetic rubber cover

Recommended Fluids

Phosphate ester base hydraulic fluids.
Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

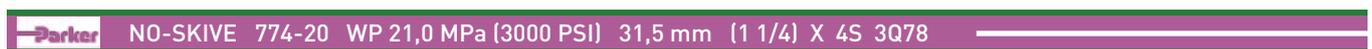
Fitting Series

on request

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| 774-12 | 19 | 3/4 | -12 | 19.1 | 31.0 | 28.0 | 4000 | 112.0 | 16000 | 240 | 1.40 |
| 774-16 | 25 | 1 | -16 | 25.4 | 38.0 | 28.0 | 4000 | 112.0 | 16000 | 300 | 1.99 |
| 774-20 | 31 | 1 1/4 | -20 | 31.8 | 47.0 | 21.0 | 3000 | 84.0 | 12000 | 420 | 2.59 |
| 774-24 | 38 | 1 1/2 | -24 | 38.1 | 53.0 | 17.5 | 2500 | 70.0 | 10000 | 500 | 2.99 |
| 774-32 | 51 | 2 | -32 | 50.8 | 67.0 | 17.5 | 2500 | 70.0 | 10000 | 630 | 4.09 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



797RH

No-Skive Compact Spiral™

Fire-retardant cover

Primary Applications

General high pressure hydraulic circuits for railway applications.

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed SAE 100R15 - ISO 3862 Type R15 - ISO 18752-DC

Construction

Inner tube: Proprietary synthetic rubber

Reinforcement: Four spiral high-tensile steel wire

Cover: Fire retardant synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C

Water max. +85 °C



- 1/2 the bend radius of SAE 100R15
- Constant working pressure of 42.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %
- Railway approved:
 - European Standard EN45545 HL2 for R22 (internal) and R23 (external)

Recommended Fluids

Petroleum base hydraulic fluids and lubricating oils.

Wide Compatibility exceeding Column III, with additional chemical resistance, especially for diesel and biodiesel.

Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| 797RH-8 | 12 | 1/2 | -8 | 12.7 | 21.1 | 42.0 | 6000 | 168.0 | 24000 | 100 | 0.67 |
| 797RH-10 | 16 | 5/8 | -10 | 15.9 | 23.9 | 42.0 | 6000 | 168.0 | 24000 | 115 | 0.80 |
| 797RH-12 | 19 | 3/4 | -12 | 19.1 | 27.9 | 42.0 | 6000 | 168.0 | 24000 | 135 | 1.16 |
| 797RH-16 | 25 | 1 | -16 | 25.4 | 35.7 | 42.0 | 6000 | 168.0 | 24000 | 165 | 1.74 |

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

797RH-12 WP 42,0 Mpa (6000 PSI) 1" 19 mm (3/4") ISO 18752 - EN 45545 - MADE IN ITALY

F42

No-Skive Multispiral

For phosphate ester base fluids

Primary Applications

Test stands for aerospace, foundries, steel mills, high pressure hydraulic applications with phosphate ester fluids

Applicable Specifications

Parker Specification

Restrictions

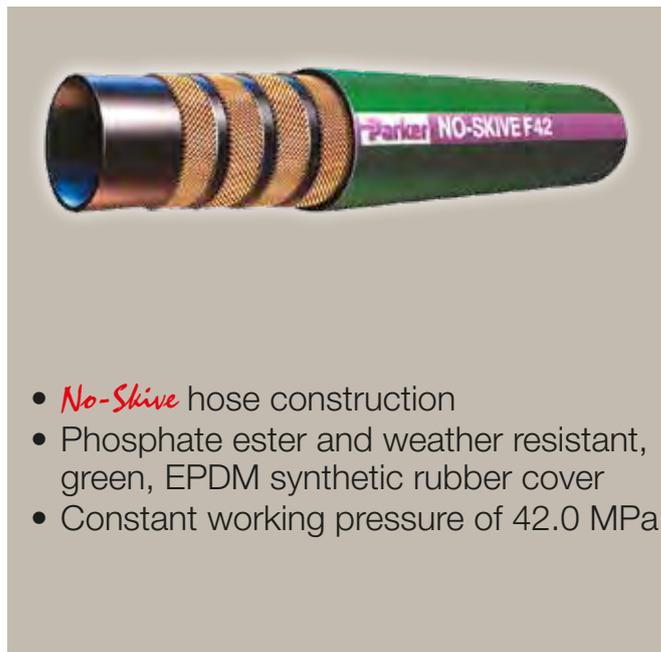
Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

Construction

Inner tube: Phosphate ester resistant EPDM synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wire
Cover: EPDM synthetic rubber, green, phosphate ester and weather resistant

Temperature Range -40 °C up to +80 °C

Exception: Air max. +70 °C
Water max. +85 °C



- *No-Skive* hose construction
- Phosphate ester and weather resistant, green, EPDM synthetic rubber cover
- Constant working pressure of 42.0 MPa

Recommended Fluids

Phosphate ester based hydraulic fluids, water-glycol based fluids, air and water.

Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

on request

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| F42-8 | 12 | 1/2 | -8 | 12.7 | 25.0 | 42.0 | 6000 | 168.0 | 24000 | 200 | 0.83 |
| F42-12 | 19 | 3/4 | -12 | 19.1 | 31.9 | 42.0 | 6000 | 168.0 | 24000 | 265 | 1.53 |
| F42-16 | 25 | 1 | -16 | 25.4 | 38.5 | 42.0 | 6000 | 168.0 | 24000 | 330 | 2.08 |
| F42-20 | 31 | 1 1/4 | -20 | 31.8 | 50 | 42.0 | 6000 | 168.0 | 24000 | 445 | 3.96 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H29

ParLock Multispiral

Exceeds ISO 3862 Type 4SH –
EN 856 Type 4SH

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type 4SH – EN 856 Type 4SH

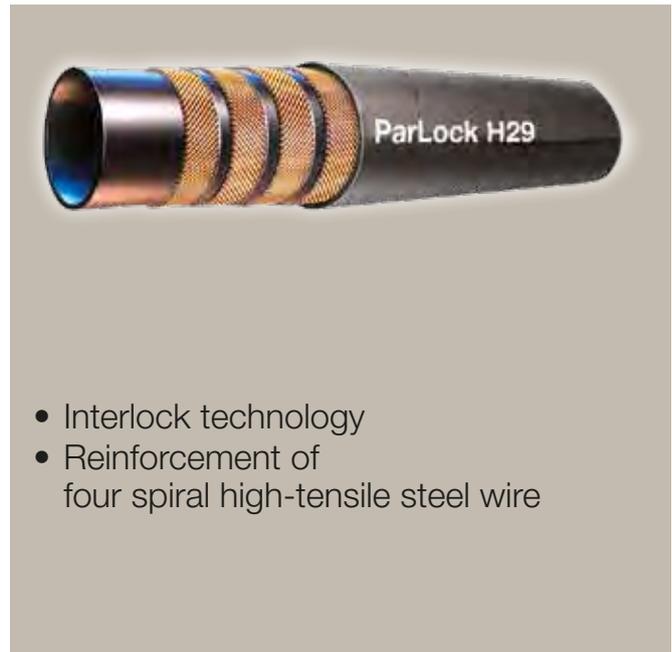
Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| H29-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 43.0 | 6250 | 172.0 | 25000 | 280 | 1.7 |
| H29-16 | 25 | 1 | -16 | 25.4 | 38.7 | 40.0 | 5800 | 160.0 | 23200 | 340 | 2.2 |
| H29-20 | 31 | 1 1/4 | -20 | 31.8 | 45.5 | 35.0 | 5000 | 140.0 | 20000 | 460 | 2.6 |
| H29-24 | 38 | 1 1/2 | -24 | 38.1 | 53.5 | 31.0 | 4500 | 124.0 | 18000 | 560 | 3.4 |
| H29-32 | 51 | 2 | -32 | 50.8 | 68.1 | 28.0 | 4050 | 112.0 | 16200 | 700 | 4.8 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H29TC

ParLock Multispiral

Exceeds ISO 3862 Type 4SH – EN 856 Type 4SH

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +100 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| H29TC-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 43.0 | 6250 | 172.0 | 25000 | 280 | 1.7 |
| H29TC-16 | 25 | 1 | -16 | 25.4 | 38.7 | 40.0 | 5800 | 160.0 | 23200 | 340 | 2.2 |
| H29TC-20 | 31 | 1 1/4 | -20 | 31.8 | 45.5 | 35.0 | 5000 | 140.0 | 20000 | 460 | 2.6 |
| H29TC-24 | 38 | 1 1/2 | -24 | 38.1 | 53.5 | 31.0 | 4500 | 124.0 | 18000 | 560 | 3.4 |
| H29TC-32 | 51 | 2 | -32 | 50.8 | 68.1 | 28.0 | 4050 | 112.0 | 16200 | 700 | 4.8 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H29ST

ParLock Multispiral

Exceeds ISO 3862 Type 4SH –
EN 856 Type 4SH

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber
with a special polyethylene coating

Temperature Range -40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Extreme abrasion resistant **SUPER TOUGH** cover
- Reinforcement of four spiral high-tensile steel wire

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| H29ST-12 | 19 | 3/4 | -12 | 19.1 | 32.2 | 43.0 | 6250 | 172.0 | 25000 | 280 | 1.7 |
| H29ST-16 | 25 | 1 | -16 | 25.4 | 38.7 | 40.0 | 5800 | 160.0 | 23200 | 340 | 2.2 |
| H29ST-20 | 31 | 1 1/4 | -20 | 31.8 | 45.5 | 35.0 | 5000 | 140.0 | 20000 | 460 | 2.6 |
| H29ST-24 | 38 | 1 1/2 | -24 | 38.1 | 53.5 | 31.0 | 4500 | 124.0 | 18000 | 560 | 3.4 |
| H29ST-32 | 51 | 2 | -32 | 50.8 | 68.1 | 28.0 | 4050 | 112.0 | 16200 | 700 | 4.8 |

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H31

ParLock Multispiral

Exceeds ISO 3862 Type 4SP –
EN 856 Type 4SP

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

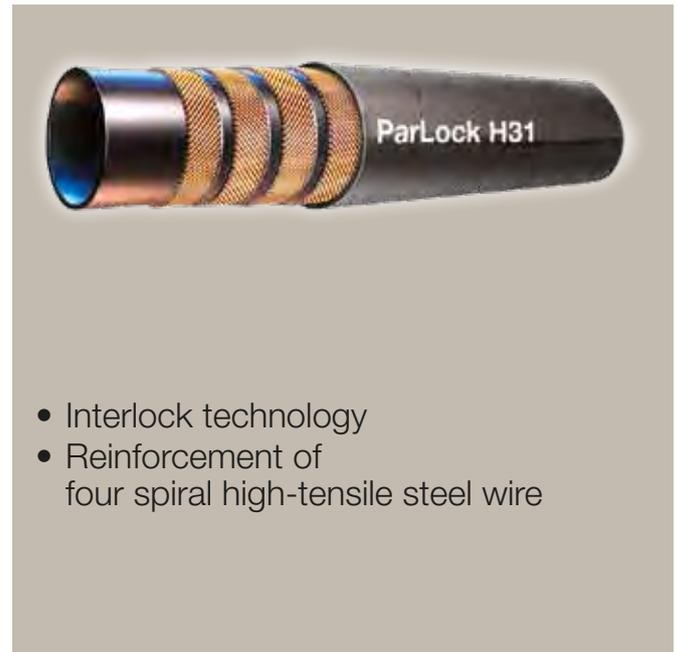
Exceed ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four spiral high-tensile steel wire
- Cover: Synthetic rubber

Temperature Range -40 °C up to +100 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

External skiving (size -4 up to -8)



Internal and external skiving (size -10 up to -16)

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| H31-4 | 6 | 1/4 | -4 | 6.4 | 17.8 | 50.0 | 7250 | 200.0 | 29000 | 120 | 0.73 |
| H31-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 44.5 | 6450 | 178.0 | 25800 | 130 | 0.91 |
| H31-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 180 | 1.08 |
| H31-10 | 16 | 5/8 | -10 | 15.9 | 28.5 | 39.0 | 5650 | 156.0 | 22600 | 225 | 1.39 |
| H31-12 | 19 | 3/4 | -12 | 19.1 | 32.0 | 35.0 | 5000 | 140.0 | 20300 | 280 | 1.73 |
| H31-16 | 25 | 1 | -16 | 25.4 | 39.7 | 31.0 | 4500 | 124.0 | 18000 | 355 | 2.31 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H31TC

ParLock Multispiral

Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +100 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

External skiving (size -4 up to -8)

Internal and external skiving (size -10 up to -16)



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| H31TC-4 | 6 | 1/4 | -4 | 6.4 | 17.8 | 50.0 | 7250 | 200.0 | 29000 | 120 | 0.73 |
| H31TC-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 44.5 | 6450 | 178.0 | 25800 | 130 | 0.91 |
| H31TC-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 180 | 1.08 |
| H31TC-10 | 16 | 5/8 | -10 | 15.9 | 28.5 | 39.0 | 5650 | 156.0 | 22600 | 225 | 1.39 |
| H31TC-12 | 19 | 3/4 | -12 | 19.1 | 32.0 | 35.0 | 5000 | 140.0 | 20300 | 280 | 1.73 |
| H31TC-16 | 25 | 1 | -16 | 25.4 | 39.7 | 31.0 | 4500 | 124.0 | 18000 | 355 | 2.31 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

Parker TOUGH COVER H31TC-6 WP 44.5 MPa (6450 PSI) MSHA IC 40/26 | · EXCEED ISO3862 - EN856 4SP

H31ST

ParLock Multispiral

Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four spiral high-tensile steel wire
- Cover: Synthetic rubber with a special polyethylene coating

Temperature Range -40 °C up to +100 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock technology
- Extreme abrasion resistant **SUPER TOUGH** cover
- Reinforcement of four spiral high-tensile steel wire

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

External skiving (size -4 up to -8)

Internal and external skiving (size -10 up to -16)



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| H31ST-4 | 6 | 1/4 | -4 | 6.4 | 17.8 | 50.0 | 7250 | 200.0 | 29000 | 120 | 0.73 |
| H31ST-6 | 10 | 3/8 | -6 | 9.5 | 21.4 | 44.5 | 6450 | 178.0 | 25800 | 130 | 0.91 |
| H31ST-8 | 12 | 1/2 | -8 | 12.7 | 24.6 | 41.5 | 6000 | 166.0 | 24000 | 180 | 1.08 |
| H31ST-10 | 16 | 5/8 | -10 | 15.9 | 28.5 | 39.0 | 5650 | 156.0 | 22600 | 225 | 1.39 |
| H31ST-12 | 19 | 3/4 | -12 | 19.1 | 32.0 | 35.0 | 5000 | 140.0 | 20300 | 280 | 1.73 |
| H31ST-16 | 25 | 1 | -16 | 25.4 | 39.7 | 31.0 | 4500 | 124.0 | 18000 | 355 | 2.31 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R35

ParLock Multispiral

Exceeds ISO 3862 Type R13 – Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type R13 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -12, -16, -20)



Internal and external skiving (size -24, -32)



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| R35-12 | 19 | 3/4 | -12 | 19.1 | 32.00 | 35.0 | 5000 | 140.0 | 20000 | 220 | 1.5 |
| R35-16 | 25 | 1 | -16 | 25.4 | 39.35 | 35.0 | 5000 | 140.0 | 20000 | 280 | 2.2 |
| R35-20 | 31 | 1 1/4 | -20 | 31.8 | 45.50 | 35.0 | 5000 | 140.0 | 20000 | 380 | 2.6 |
| R35-24 | 38 | 1 1/2 | -24 | 38.1 | 57.30 | 35.0 | 5000 | 140.0 | 20000 | 480 | 4.8 |
| R35-32 | 51 | 2 | -32 | 50.8 | 71.10 | 35.0 | 5000 | 140.0 | 20000 | 600 | 6.7 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R35TC/RS35TC-48

ParLock Multispiral

Exceeds ISO 3862 Type R13 – Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

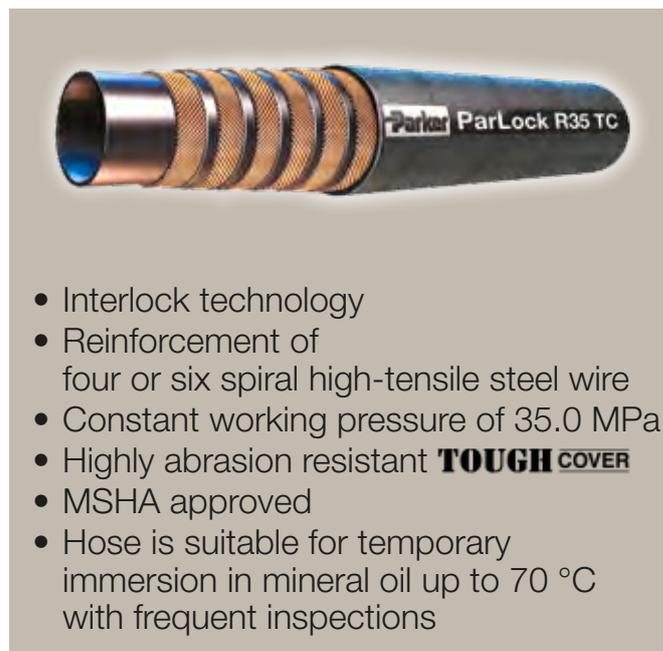
Exceed ISO 3862 Type R13 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

- Internal and external skiving (size -12 up to -20) **V4**
- Internal and external skiving (size -24 up to -48) **V6**

| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|--------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| R35TC-12 | 19 | 3/4 | -12 | 19.1 | 32.00 | 35.0 | 5000 | 140.0 | 20000 | 220 | 1.5 |
| R35TC-16 | 25 | 1 | -16 | 25.4 | 39.35 | 35.0 | 5000 | 140.0 | 20000 | 280 | 2.2 |
| R35TC-20 | 31 | 1 1/4 | -20 | 31.8 | 45.50 | 35.0 | 5000 | 140.0 | 20000 | 380 | 2.6 |
| R35TC-24 | 38 | 1 1/2 | -24 | 38.1 | 57.30 | 35.0 | 5000 | 140.0 | 20000 | 480 | 4.8 |
| R35TC-32 | 51 | 2 | -32 | 50.8 | 71.10 | 35.0 | 5000 | 140.0 | 20000 | 600 | 6.7 |
| R35TC-40 | 63 | 2 1/2 | -40 | 63.5 | 84.50 | 35.0 | 5000 | 140.0 | 20000 | 800 | 9.0 |
| RS35TC-48 | 76 | 3 | -48 | 76.2 | 96.00 | 35.0* | 5000* | 88.0 | 12750 | 900 | 10.0 |
| RS35TC-48 | 76 | 3 | -48 | 76.2 | 96.00 | 21.0** | 3040** | 88.0 | 12750 | 900 | 10.0 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

* 35 MPa: Static applications according to ISO 6807-D

** 21 MPa: Dynamic hydraulic application design factor > 4:1

Hose layline example



R42

ParLock Multispiral

Exceeds ISO 3862 Type R15 – Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C
Water max. +85 °C



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -10, -12, -16)



Internal and external skiving (size -20, -24, -32)



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|-----------------------|------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure | | min. burst pressure | | | |
| | | | | | | MPa | psi | MPa | psi | | |
| R42-10 | 16 | 5/8 | -10 | 15.9 | 28.50 | 42.0 | 6000 | 168.0 | 24000 | 225 | 1.39 |
| R42-12 | 19 | 3/4 | -12 | 19.1 | 32.00 | 42.0 | 6000 | 168.0 | 24000 | 280 | 1.70 |
| R42-16 | 25 | 1 | -16 | 25.4 | 39.00 | 42.0 | 6000 | 168.0 | 24000 | 300 | 2.30 |
| R42-20 | 31 | 1 1/4 | -20 | 31.8 | 50.75 | 42.0 | 6000 | 168.0 | 24000 | 400 | 3.80 |
| R42-24 | 38 | 1 1/2 | -24 | 38.1 | 57.00 | 42.0 | 6000 | 168.0 | 24000 | 500 | 4.80 |
| R42-32 | 51 | 2 | -32 | 50.8 | 71.50 | 42.0 | 6000 | 168.0 | 24000 | 700 | 7.00 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R42TC

ParLock Multispiral

Exceeds ISO 3862 Type R15 – Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -10, -12, -16)



Internal and external skiving (size -20, -24, -32)



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| R42TC-10 | 16 | 5/8 | -10 | 15.9 | 28.50 | 42.0 | 6000 | 168.0 | 24000 | 225 | 1.39 |
| R42TC-12 | 19 | 3/4 | -12 | 19.1 | 32.00 | 42.0 | 6000 | 168.0 | 24000 | 280 | 1.70 |
| R42TC-16 | 25 | 1 | -16 | 25.4 | 39.00 | 42.0 | 6000 | 168.0 | 24000 | 300 | 2.30 |
| R42TC-20 | 31 | 1 1/4 | -20 | 31.8 | 50.75 | 42.0 | 6000 | 168.0 | 24000 | 400 | 3.80 |
| R42TC-24 | 38 | 1 1/2 | -24 | 38.1 | 57.00 | 42.0 | 6000 | 168.0 | 24000 | 500 | 4.80 |
| R42TC-32 | 51 | 2 | -32 | 50.8 | 71.50 | 42.0 | 6000 | 168.0 | 24000 | 700 | 7.00 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R42ST

ParLock Multispiral

Exceeds ISO 3862 Type R15 – Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wire
Cover: Synthetic rubber with a special polyethylene coating

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Extreme abrasion resistant **SUPER TOUGH** cover
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -10, -12, -16)



Internal and external skiving (size -20, -24, -32)



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| R42ST-10 | 16 | 5/8 | -10 | 15.9 | 28.50 | 42.0 | 6000 | 168.0 | 24000 | 225 | 1.39 |
| R42ST-12 | 19 | 3/4 | -12 | 19.1 | 32.00 | 42.0 | 6000 | 168.0 | 24000 | 280 | 1.70 |
| R42ST-16 | 25 | 1 | -16 | 25.4 | 39.00 | 42.0 | 6000 | 168.0 | 24000 | 300 | 2.30 |
| R42ST-20 | 31 | 1 1/4 | -20 | 31.8 | 50.75 | 42.0 | 6000 | 168.0 | 24000 | 400 | 3.80 |
| R42ST-24 | 38 | 1 1/2 | -24 | 38.1 | 57.00 | 42.0 | 6000 | 168.0 | 24000 | 500 | 4.80 |
| R42ST-32 | 51 | 2 | -32 | 50.8 | 71.50 | 42.0 | 6000 | 168.0 | 24000 | 700 | 7.00 |

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R50TC/R56TC

ParLock Multispiral

Exceeds ISO 3862 Type R15 – Parker Specifications

Primary Applications

Mobile hydraulic equipment and agricultural machines with typically large constructions.

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +100 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 50.0 MPa (R50TC) and 56.0 MPa (R56TC)
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series Internal and external skiving

R56TC-4 up to R56TC-8

R50TC-10 up to -16

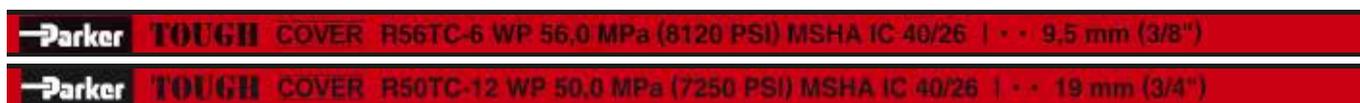
R50TC-20



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| R56TC-4 | 6 | 1/4 | -4 | 6.4 | 17.9 | 56.0 | 8100 | 224.0 | 32400 | 120 | 0.65 |
| R56TC-6 | 10 | 3/8 | -6 | 9.5 | 21.8 | 56.0 | 8100 | 224.0 | 32400 | 130 | 0.95 |
| R56TC-8 | 12 | 1/2 | -8 | 12.7 | 25.5 | 56.0 | 8100 | 224.0 | 32400 | 180 | 1.25 |
| R50TC-10 | 16 | 5/8 | -10 | 15.9 | 28.50 | 50.0 | 7250 | 200.0 | 29000 | 225 | 1.48 |
| R50TC-12 | 19 | 3/4 | -12 | 19.1 | 32.00 | 50.0 | 7250 | 200.0 | 29000 | 270 | 1.85 |
| R50TC-16 | 25 | 1 | -16 | 25.4 | 38.40 | 50.0 | 7250 | 200.0 | 29000 | 300 | 2.70 |
| R50TC-20 | 31 | 1 1/4 | -20 | 31.8 | 52.60 | 50.0 | 7250 | 200.0 | 29000 | 450 | 5.00 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



BPK

Blastopak ParLock Multispiral

DIN EN 1829-2



Primary Applications

Water blasting applications, water cutting applications, cleaning and paint or corrosion removal.

Not recommended for dynamic hydraulic applications

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

Inner tube: Synthetic rubber

Reinforcement: Four or six spiral high-tensile steel wire

Cover: Synthetic rubber

Continuous Service Temperature Range

-10 °C up to +70 °C

Max. Service Temperature Range

-40 °C up to +93 °C



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- DIN EN 1829-2
- Each hose assembly have to be proof tested at 1.5 WP with test report

Applicable Specifications

DIN EN 1829-2

Recommended Fluids

Water, water-soap emulsion

Fitting Series

Internal and external skiving



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|-------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| BPK-6 | 10 | 3/8 | -6 | 9.5 | 21.8 | 110.0 | 15900 | 275.0 | 39800 | 130 | 1.10 |
| BPK-8 | 12 | 1/2 | -8 | 12.7 | 25.5 | 110.0 | 15900 | 275.0 | 39800 | 200 | 1.40 |
| BPK-12 | 20 | 3/4 | -12 | 19.1 | 35.2 | 110.0 | 15900 | 275.0 | 39800 | 250 | 2.50 |
| BPK-16 | 25 | 1 | -16 | 25.4 | 41.8 | 80.0 | 11600 | 200.0 | 29000 | 300 | 3.00 |

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



FA35

ParLock Multispiral Firearmor Blowout Preventer Application

Meets API 16D – Lloyd’s 1000/499 fire test

Primary Applications

Hydraulic system that operates the BOP security valve, both armored and without external protection. To be used on all rigs where fire resistance acc. to API 16D specifications are required.

Applicable Specifications

Meets API 16D – Lloyd’s 1000/499 fire test

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Special red flame resistant compound

Temperature Range -40 °C up to +100 °C

- Exception: Air max. +70 °C
- Water max. +85 °C



- Interlock Technology
- Fire armored as blowout preventer
- Special red flame resistant cover compound
- Constant working pressure of 35.0 MPa
- Design factor 4:1
- Very flexible
- Size -6 and -8 only to use with special sleeve FS-R-6 and FS-R-8
- Can be assembled only by Parker BOP certified distributors

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

External skiving (size -6 and -8)



Internal and external skiving (size -10 up to -20)



Internal and external skiving (size -24 and -32)



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|-------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| FA35-6 | 10 | 3/8 | -6 | 9.5 | 22.8 | 35.0 | 5000 | 140.0 | 20000 | 130 | 0.91 |
| FA35-8 | 12 | 1/2 | -8 | 12.7 | 25.2 | 35.0 | 5000 | 140.0 | 20000 | 180 | 1.08 |
| FA35-10 | 16 | 5/8 | -10 | 15.9 | 29.5 | 35.0 | 5000 | 140.0 | 20000 | 225 | 1.39 |
| FA35-12 | 19 | 3/4 | -12 | 19.1 | 32.4 | 35.0 | 5000 | 140.0 | 20000 | 280 | 1.70 |
| FA35-16 | 25 | 1 | -16 | 25.4 | 39.0 | 35.0 | 5000 | 140.0 | 20000 | 340 | 2.20 |
| FA35-20 | 31 | 1 1/4 | -20 | 31.8 | 46.6 | 35.0 | 5000 | 140.0 | 20000 | 460 | 2.60 |
| FA35-24 | 38 | 1 1/2 | -24 | 38.1 | 58.7 | 35.0 | 5000 | 140.0 | 20000 | 480 | 4.80 |
| FA35-32 | 51 | 2 | -32 | 50.8 | 72.0 | 35.0 | 5000 | 140.0 | 20000 | 600 | 6.70 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Parker BOP FS-R

is a red PKR rubber flame resistant sleeve that must be used for BOP hose assembly in order to protect the fitting area and be approved in accordance with the API 16D flame test.

The sleeve has to be fit over the fitting and doesn't need any clamp to be fixed.



Part Numbers: FS-R-6, FS-R-8

Hose layline example



RD35TC

ParLock Multispiral Drilling Application

API 7K Grade D/ISO 14693

Primary Applications

Rotary drilling and vibrator high pressure hydraulic applications

Type Approvals

Details please find on pages **Ab-16** to **Ab-19**

Applicable Specifications

API 7K Grade D/ISO 14693

Construction

Inner tube: Synthetic rubber
Reinforcement: Six spiral high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -20 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C



- Interlock Technology
- Reinforcement of six spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa
- Design factor 2.5:1
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections
- Antistatic properties

Recommended Fluids

Water, mud and cement, mineral oils, glycols and polyglycols, mineral oils in aqueous emulsion. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving



| Part Number | Hose I.D. | | | | Hose O.D. mm | Pressure Rating | | | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|------------------------------|------|----------------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | max. working pressure MPa | psi | min. burst pressure MPa | psi | | |
| RD35TC-32 | 51 | 2 | -32 | 50.8 | 71.10 | 35.0 | 5000 | 88.0* | 12750 | 600 | 6.7 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

| | | | | | | | |
|--|--------------------------|--|------------------|------------------------------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| | ROTARY DRILLING VIBRATOR | | RD35TC-48 | WP 34,5 MPa (5000 PSI) TEST PRESS. 69,0 MPa (10000 PSI) | ISO 14693 GRADE D MSHA IC 40/26 | -20°C TO +100°C -4°F TO +212°F | DN 76 mm (3") I° MADE IN ITALY |
|--|--------------------------|--|------------------|------------------------------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|

CEM69TC

ParLock Multispiral Cementing Hose

According to API 7K

Primary Applications

Dedicated for cementing hose applications with flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

Type Approvals

DNV-GL type examination certificate in accordance with API 7K.

Applicable Specifications

API 7K FSL0, ISO 14693

Construction

Inner Tube: Synthetic rubber
Reinforcement: Six spirals high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -20 °C up to +100 °C

Exception: Air max. +70 °C
Water max. +85 °C



- Interlock technology
- Reinforcement of six high tensile steel wire
- Design factor 1:2,25
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Antistatic properties

Recommended Fluids

Water and mud, mineral oils, glycols, polyglycol, mineral oils in aqueous emulsion and liquid cement.

Fitting Series

Internal and external skiving



| Part Number | Hose I.D. | | | | Hose O.D. mm | max. working pressure | | test pressure | | min. burst pressure | | min. bend radius mm | weight kg |
|-------------|-----------|------|------|------|-----------------|-----------------------|-------|---------------|-------|---------------------|-------|------------------------|--------------|
| | DN | Inch | Size | mm | | MPa | psi | MPa | psi | MPa | psi | | |
| CEM69TC-32 | 51 | 2 | -32 | 50.8 | 71.5 | 69.0 | 10000 | 103.4 | 15000 | 155.3 | 22500 | 1000 | 7.00 |

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

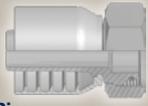
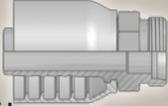
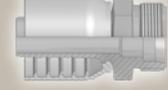
Hose layline example

| | | | | | | |
|--|----------------------------------------|-------------------|--------------------------------------------------------------|---------------------------------|--------------------------------------|-----------------------------------|
| | CEMENTING HOSE NOT FOR SOUR SERVICE | CEM69TC-32 | WP 69,0 MPA (10000 PSI) TEST PRESS. 103,4 MPA (15000 PSI) | API 7K - FSL 0 MSHA IC 40/26 | -20°C TO +100 °C -4 °F TO +212 °F | DN 51 mm (2") 1" MADE IN ITALY |
|--|----------------------------------------|-------------------|--------------------------------------------------------------|---------------------------------|--------------------------------------|-----------------------------------|



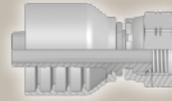
DIN – Metric

Page Db-1 – Db-4

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CA Db-1 Female Metric 24° Light Series with O-Ring Swivel – Straight ISO 12151-2-SWS-L – DKOL</p>  | <p>CE Db-1 Female Metric 24° Light Series with O-Ring Swivel – 45° Elbow ISO 12151-2-SWE-L – DKOL 45°</p>  | <p>CF Db-2 Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow ISO 12151-2-SWE-L – DKOL 90°</p>  | <p>D0 Db-2 Male Metric 24° Light Series – Rigid Straight ISO 12151-2-S-L – CEL</p>  |
| <p>C9 Db-3 Female Metric 24° – Swivel Heavy Series with O-Ring Straight ISO 12151-2-SWS-S – DKOS</p>  | <p>0C Db-3 Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow ISO 12151-2 – SWE-S – DKOS 45°</p>  | <p>1C Db-4 Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow ISO 12151-2-SWE-S – DKOS 90°</p>  | <p>D2 Db-4 Male Metric 24° – Rigid Heavy Series – Straight ISO 12151-2-S-S – CES</p>  |

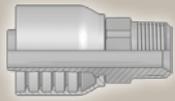
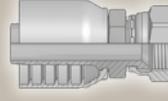
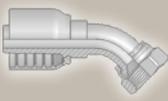
BSP

Page Db-5 – Db-7

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>92 Db-5 Female BSP Parallel Pipe Swivel – Straight (60° Cone) BS5200-A – DKR</p>  | <p>B1 Db-5 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone) BS 5200-D – DKR 45°</p>  | <p>B2 Db-6 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) BS 5200-B – DKR 90°</p>  | <p>EA Db-6 BSP Swivel Female with O-Ring (60° Cone) BS 5200 – ISO 12151-6 – DKOR</p>  |
| <p>EC Db-7 BSP Swivel Female with O-Ring 90° Elbow (60° Cone) BS 5200 – ISO 12151-6 – DKOR 90°</p>  | <p>D9 Db-7 Male BSP Parallel Pipe Rigid – Straight (60° Cone) BS5200 – AGR</p>  | | |

SAE

Page Db-8 – Db-10

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>01 Db-8 Male NPTF Pipe Rigid – Straight SAE J476A / J516 – AGN</p>  | <p>03 Db-8 Male JIC 37° – Rigid Straight ISO12151-5-S – AGJ</p>  | <p>06 Db-9 Female JIC 37° – Swivel Straight ISO12151-5-SWS – DKJ</p>  | <p>37 Db-10 Female JIC 37° – Swivel 45° Elbow ISO 12151-5-SWE 45° – DKJ 45°</p>  |
| <p>39/3W Db-10 Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow ISO 12151-5-SWES – DKJ 90°</p>  | | | |

Flange

Page Db-11 – Db-14

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>15 Db-11 ISO 6162-1-Flange Straight ISO 12151-3-S-L – SFL (21.0 MPa/ 3000 psi)</p>  | <p>17 Db-11 ISO 6162-1 Flange 45° Elbow ISO 12151-3 – E45 – L – SFL 45° (21.0 MPa/ 3000 psi)</p>  | <p>19 Db-12 ISO 6162-1-Flange 90° Elbow ISO 12151-3 – E – L – SFL 90° (21.0 MPa/ 3000 psi)</p>  | <p>6A Db-12 ISO 6162-2-Flange Straight ISO 12151-3-S-S – SFS (42.0 MPa/ 6000 psi)</p>  |
| <p>6F Db-13 ISO 6162-2-Flange 45° Elbow – Heavy Series ISO 12151-3 – E45-S – SFS 45° (42.0 MPa/ 6000 psi)</p>  | <p>6N Db-13 ISO 6162-2-Flange 90° Elbow ISO 12151-3 – E-S – SFS 90° (42.0 MPa/ 6000 psi)</p>  | <p>PY Db-14 Flange – 24° Male French Gas Straight</p>  | |

ORFS

Page Db-15 – Db-17

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JC Db-15 Female ORFS Swivel – Straight Short ISO 12151-1 – SWSA SAE J516 – ORFS</p>  | <p>JS Db-15 ORFS Swivel Female (Long) ISO 12151-1-SWSB SAE J516 – ORFS</p>  | <p>J7 Db-16 Female ORFS – Swivel 45° Elbow ISO 12151-1 – SWE 45° SAE J516 – ORFS 45°</p>  | <p>J9 Db-16 Female ORFS – Swivel 90° Elbow – Short Drop ISO 12151-1 – SWES SAE J516 – ORFS 90°</p>  |
| <p>J1 Db-17 Female ORFS – Swivel 90° Elbow – Long Drop ISO 12151-1 – SWEL SAE J 516 – ORFS 90° L</p>  | <p>JM Db-17 ORFS Male ISO 12151-1-S – SAE J516</p>  | | |

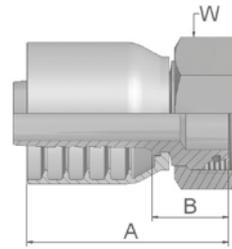
Others

Page Db-18

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>XU Db-18 Female Metric – Swivel Straight (30° Flare) JIS B8363</p>  | <p>XY Db-18 Female Metric – Swivel 90° Elbow (30° Flare) JIS B8363</p>  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

CA Female Metric 24° Light Series with O-Ring Swivel – Straight

ISO 12151-2-SWS-L – DKOL

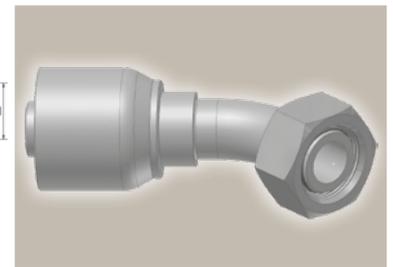
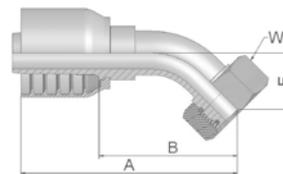


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1CA70-10-6 | 10 | 3/8 | -6 | 9.5 | M16x1.5 | 10 | 54 | 25 | 19 |
| 1CA70-12-6 | 10 | 3/8 | -6 | 9.5 | M18x1.5 | 12 | 54 | 24 | 22 |
| 1CA70-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 62 | 27 | 27 |
| 1CA70-18-8 | 12 | 1/2 | -8 | 12.7 | M26x1.5 | 18 | 57 | 22 | 32 |
| 1CA70-15-10 | 16 | 5/8 | -10 | 15.9 | M22x1.5 | 15 | 67 | 28 | 27 |
| 1CA70-18-10 | 16 | 5/8 | -10 | 15.9 | M26x1.5 | 18 | 62 | 25 | 32 |
| 1CA70-22-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 22 | 64 | 24 | 36 |
| 1CA70-18-12 | 19 | 3/4 | -12 | 19.1 | M26x1.5 | 18 | 65 | 26 | 32 |
| 1CA70-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 63 | 24 | 36 |
| 1CA70-28-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 28 | 66 | 26 | 41 |
| 1CA70-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 78 | 33 | 41 |
| 1CA70-35-16 | 25 | 1 | -16 | 25.4 | M45x2 | 35 | 76 | 31 | 50 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

CE Female Metric 24° Light Series with O-Ring Swivel – 45° Elbow

ISO 12151-2-SWE -L – DKOL 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 1CE70-12-6 | 10 | 3/8 | -6 | 9.5 | M18x1.5 | 12 | 70 | 40 | 20 | 22 |
| 1CE70-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 85 | 50 | 24 | 27 |
| 1CE70-18-10 | 16 | 5/8 | -10 | 15.9 | M26x1.5 | 18 | 89 | 49 | 23 | 32 |
| 1CE70-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 98 | 58 | 26 | 36 |
| 1CE70-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 127 | 80 | 34 | 41 |

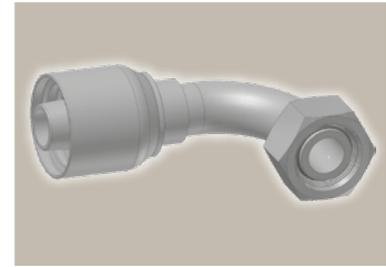
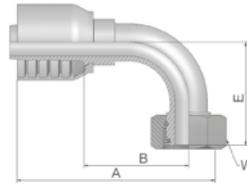
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

70 | 371LT | 372 | 372RH | 372TC | 701 | 701 TC | F42-8

CF Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow

ISO 12151-2-SWE-L – DKOL 90°

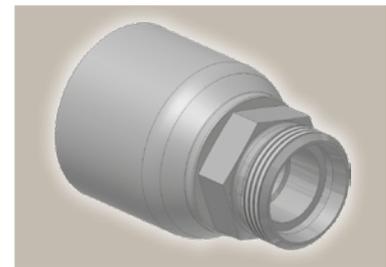
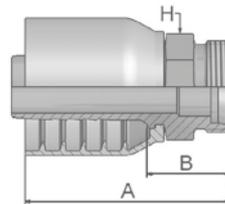


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 1CF70-10-6 | 10 | 3/8 | -6 | 9.5 | M16x1.5 | 10 | 67 | 38 | 39 | 19 |
| 1CF70-12-6 | 10 | 3/8 | -6 | 9.5 | M18x1.5 | 12 | 67 | 38 | 37 | 22 |
| 1CF70-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 73 | 39 | 45 | 27 |
| 1CF70-18-8 | 12 | 1/2 | -8 | 12.7 | M26x1.5 | 18 | 71 | 36 | 40 | 32 |
| 1CF70-15-10 | 16 | 5/8 | -10 | 15.9 | M22x1.5 | 15 | 79 | 42 | 51 | 27 |
| 1CF70-18-10 | 16 | 5/8 | -10 | 15.9 | M26x1.5 | 18 | 79 | 42 | 49 | 32 |
| 1CF70-18-12 | 19 | 3/4 | -12 | 19.1 | M26x1.5 | 18 | 89 | 49 | 56 | 32 |
| 1CF70-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 89 | 49 | 55 | 36 |
| 1CF70-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 114 | 68 | 78 | 41 |
| 1CF70-35-16 | 25 | 1 | -16 | 25.4 | M45x2 | 35 | 115 | 68 | 69 | 50 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

DO Male Metric 24° Light Series – Rigid Straight

ISO 12151-2-S-L – CEL



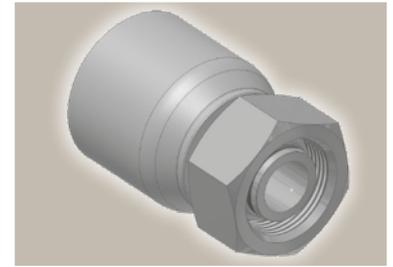
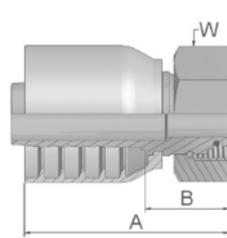
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | H mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1D070-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 60 | 26 | 22 |
| 1D070-18-10 | 16 | 5/8 | -10 | 15.9 | M26x1.5 | 18 | 65 | 28 | 27 |
| 1D070-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 69 | 30 | 30 |
| 1D070-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 79 | 32 | 36 |

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS

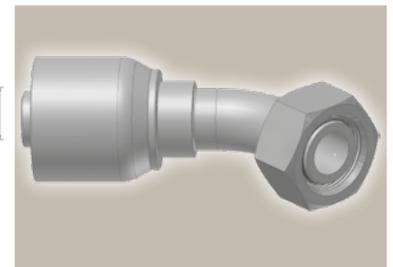
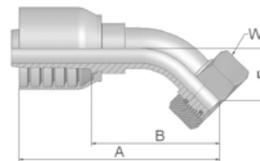


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1C970-8-6 | 10 | 3/8 | -6 | 9.5 | M16x1.5 | 8 | 53 | 24 | 19 |
| 1C970-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 52 | 22 | 24 |
| 1C970-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 53 | 24 | 27 |
| 1C970-12-8 | 12 | 1/2 | -8 | 12.7 | M20x1.5 | 12 | 60 | 25 | 24 |
| 1C970-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 59 | 24 | 30 |
| 1C970-20-8 | 12 | 1/2 | -8 | 12.7 | M30x2 | 20 | 59 | 24 | 36 |
| 1C970-16-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 16 | 66 | 27 | 30 |
| 1C970-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 20 | 64 | 27 | 36 |
| 1C970-25-10 | 16 | 5/8 | -10 | 15.9 | M36x2 | 25 | 65 | 29 | 46 |
| 1C970-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 66 | 27 | 36 |
| 1C970-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 68 | 28 | 46 |
| 1C970-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 78 | 33 | 46 |
| 1C970-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 80 | 33 | 50 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

OC Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE -S – DKOS 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 10C70-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 69 | 40 | 20 | 24 |
| 10C70-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 76 | 46 | 20 | 27 |
| 10C70-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 83 | 48 | 24 | 30 |
| 10C70-16-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 16 | 88 | 49 | 22 | 30 |
| 10C70-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 20 | 91 | 51 | 25 | 36 |
| 10C70-25-10 | 16 | 5/8 | -10 | 15.9 | M36x2 | 25 | 92 | 56 | 27 | 46 |
| 10C70-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 99 | 60 | 28 | 36 |
| 10C70-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 100 | 61 | 29 | 46 |
| 10C70-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 123 | 76 | 33 | 46 |
| 10C70-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 126 | 79 | 36 | 50 |

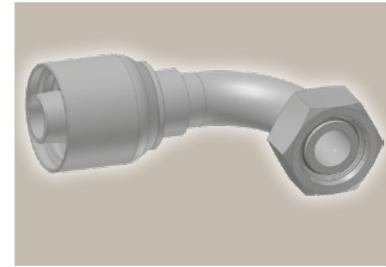
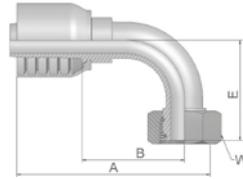
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

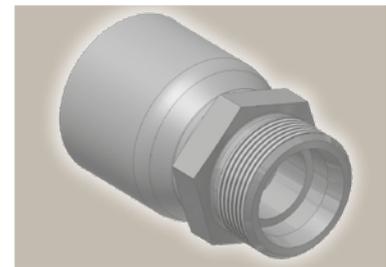
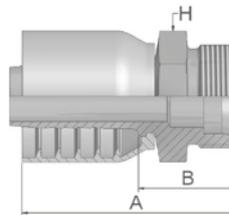


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 11C70-8-6 | 10 | 3/8 | -6 | 9.5 | M16x1.5 | 8 | 67 | 38 | 37 | 19 |
| 11C70-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 67 | 38 | 37 | 24 |
| 11C70-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 64 | 35 | 37 | 27 |
| 11C70-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 72 | 37 | 45 | 30 |
| 11C70-20-8 | 12 | 1/2 | -8 | 12.7 | M30x2 | 20 | 75 | 40 | 46 | 36 |
| 11C70-16-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 16 | 79 | 40 | 45 | 30 |
| 11C70-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 20 | 79 | 40 | 48 | 36 |
| 11C70-25-10 | 16 | 5/8 | -10 | 15.9 | M36x2 | 25 | 85 | 45 | 52 | 46 |
| 11C70-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 89 | 50 | 58 | 36 |
| 11C70-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 89 | 49 | 59 | 46 |
| 11C70-30-12 | 19 | 3/4 | -12 | 19.1 | M42x2 | 30 | 89 | 50 | 60 | 50 |
| 11C70-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 109 | 64 | 69 | 46 |
| 11C70-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 115 | 68 | 76 | 50 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

D2 Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



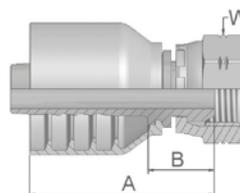
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | H mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1D270-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 53 | 24 | 22 |
| 1D270-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 55 | 25 | 22 |
| 1D270-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 62 | 28 | 24 |
| 1D270-20-8 | 12 | 1/2 | -8 | 12.7 | M30x2 | 20 | 67 | 32 | 30 |
| 1D270-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 20 | 75 | 32 | 30 |
| 1D270-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 72 | 33 | 30 |
| 1D270-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 74 | 35 | 36 |
| 1D270-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 84 | 37 | 36 |
| 1D270-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 85 | 40 | 46 |

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

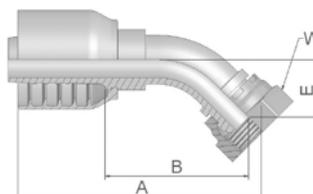
BS5200-A – DKR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 19270-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 49 | 20 | 22 |
| 19270-8-6 | 10 | 3/8 | -6 | 9.5 | 1/2x14 | 51 | 22 | 27 |
| 19270-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 57 | 22 | 27 |
| 19270-10-8 | 12 | 1/2 | -8 | 12.7 | 5/8x14 | 55 | 20 | 30 |
| 19270-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 57 | 21 | 30 |
| 19270-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4x14 | 61 | 22 | 32 |
| 19270-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 61 | 22 | 32 |
| 19270-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 63 | 24 | 41 |
| 19270-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 72 | 25 | 41 |

B1 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone)

BS 5200-D – DKR 45°



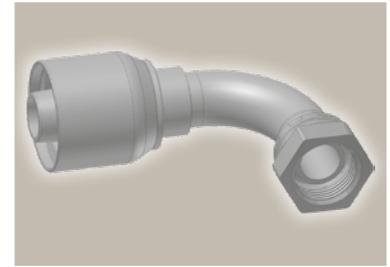
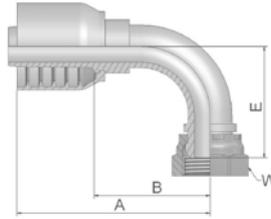
| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1B170-4-6 | 10 | 3/8 | -6 | 9.5 | 1/4x19 | 68 | 39 | 19 | 19 |
| 1B170-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 67 | 37 | 17 | 22 |
| 1B170-8-6 | 10 | 3/8 | -6 | 9.5 | 1/2x14 | 68 | 39 | 19 | 27 |
| 1B170-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 79 | 45 | 20 | 27 |
| 1B170-10-8 | 12 | 1/2 | -8 | 12.7 | 5/8x14 | 78 | 43 | 19 | 30 |
| 1B170-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 89 | 50 | 23 | 30 |
| 1B170-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4x14 | 88 | 49 | 22 | 32 |
| 1B170-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 96 | 57 | 25 | 32 |
| 1B170-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 95 | 56 | 24 | 41 |
| 1B170-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 121 | 77 | 33 | 41 |

Approved fitting series for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

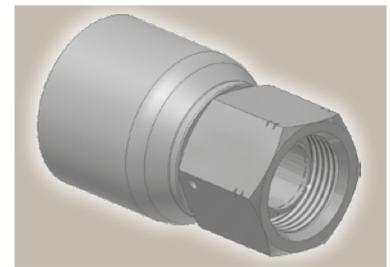
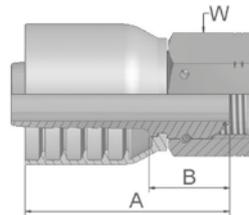
BS 5200-B – DKR 90°



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1B270-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 66 | 37 | 33 | 22 |
| 1B270-8-6 | 10 | 3/8 | -6 | 9.5 | 1/2x14 | 66 | 37 | 35 | 27 |
| 1B270-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 70 | 35 | 39 | 27 |
| 1B270-10-8 | 12 | 1/2 | -8 | 12.7 | 5/8x14 | 74 | 39 | 38 | 30 |
| 1B270-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 81 | 41 | 46 | 30 |
| 1B270-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4x14 | 92 | 52 | 59 | 32 |
| 1B270-16-10 | 16 | 5/8 | -10 | 15.9 | 1x11 | 86 | 46 | 44 | 41 |
| 1B270-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 89 | 50 | 53 | 32 |
| 1B270-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 89 | 49 | 51 | 41 |
| 1B270-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 116 | 69 | 69 | 41 |

EA BSP Swivel Female with O-Ring (60° Cone)

BS 5200 – ISO 12151-6 – DKOR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1EA70-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 56 | 21 | 27 |
| 1EA70-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 63 | 23 | 32 |
| 1EA70-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 77 | 31 | 41 |

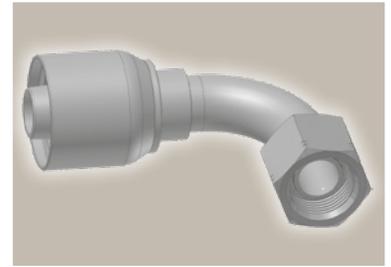
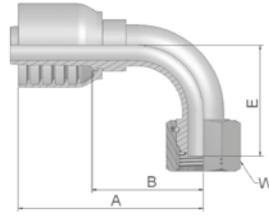
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C. O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

EC BSP Swivel Female with O-Ring 90° Elbow (60° Cone)

BS 5200 – ISO 12151-6 – DKOR 90°

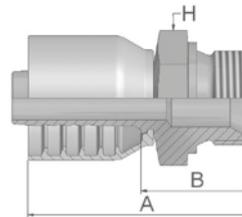


| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1EC70-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 71 | 36 | 40 | 27 |
| 1EC70-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 89 | 49 | 55 | 32 |
| 1EC70-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 115 | 68 | 71 | 41 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



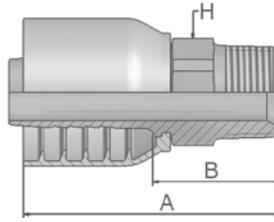
| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | H mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1D970-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 57 | 28 | 22 |
| 1D970-8-6 | 10 | 3/8 | -6 | 9.5 | 1/2x14 | 60 | 31 | 27 |
| 1D970-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 62 | 28 | 27 |
| 1D970-10-8 | 12 | 1/2 | -8 | 12.7 | 5/8x14 | 70 | 36 | 30 |
| 1D970-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4x14 | 69 | 35 | 32 |
| 1D970-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 75 | 36 | 30 |
| 1D970-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4x14 | 72 | 35 | 32 |
| 1D970-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 72 | 33 | 32 |
| 1D970-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 77 | 38 | 41 |
| 1D970-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 85 | 40 | 41 |

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

01 Male NPTF Pipe Rigid – Straight

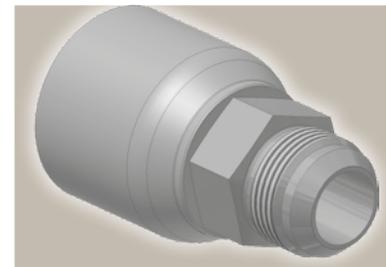
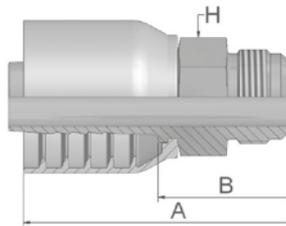
SAE J476A / J516 – AGN



| Part Number | Hose I.D. | | | | Thread NPTF | A mm | B mm | H mm |
|----------------|-----------|------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 10170-6-6-SM | 10 | 3/8 | -6 | 9.5 | 3/8-18 | 60 | 31 | 19 |
| 10170-12-8-SM | 12 | 1/2 | -8 | 12.7 | 3/4-14 | 68 | 33 | 27 |
| 10170-8-10-SM | 16 | 5/8 | -10 | 15.9 | 1/2-14 | 75 | 38 | 24 |
| 10170-12-10-SM | 16 | 5/8 | -10 | 15.9 | 3/4-14 | 71 | 34 | 27 |
| 10170-12-12-SM | 19 | 3/4 | -12 | 19.1 | 3/4-14 | 79 | 39 | 27 |
| 10170-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1-11 1/2 | 79 | 39 | 36 |

03 Male JIC 37° – Rigid Straight

ISO12151-5-S – AGJ



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 10370-6-6-SM | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 60 | 31 | 19 |
| 10370-8-6-SM | 10 | 3/8 | -6 | 9.5 | 3/4x16 | 59 | 29 | 19 |
| 10370-8-8-SM | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 68 | 33 | 22 |
| 10370-10-8-SM | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 68 | 34 | 24 |
| 10370-12-8-SM | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 71 | 36 | 27 |
| 10370-10-10-SM | 16 | 5/8 | -10 | 15.9 | 7/8x14 | 75 | 38 | 24 |
| 10370-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 78 | 39 | 27 |
| 10370-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 82 | 42 | 27 |
| 10370-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 81 | 43 | 36 |
| 10370-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 94 | 47 | 36 |

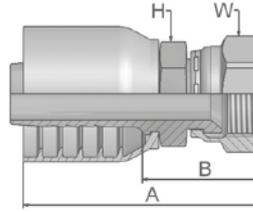
Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

06

**Female JIC 37° – Swivel
Straight**

ISO12151-5-SWS – DKJ



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 10670-6-6-SM | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 58 | 29 | 17 | 19 |
| 10670-8-6-SM | 10 | 3/8 | -6 | 9.5 | 3/4x16 | 61 | 32 | 19 | 22 |
| 10670-8-8-SM* | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 67 | 32 | 22 | 22 |
| 10670-12-8-SM | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 71 | 36 | 27 | 32 |
| 10670-10-10-SM | 16 | 5/8 | -10 | 15.9 | 7/8x14 | 75 | 35 | 24 | 27 |
| 10670-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 79 | 39 | 27 | 32 |
| 10670-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 80 | 41 | 27 | 32 |
| 10670-14-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 81 | 42 | 32 | 36 |
| 10670-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 84 | 45 | 32 | 41 |
| 10670-12-16-SM | 25 | 1 | -16 | 25.4 | 1 1/16x12 | 89 | 44 | 36 | 32 |
| 10670-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 94 | 47 | 36 | 41 |
| 10670-20-16-SM | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 98 | 52 | 41 | 50 |

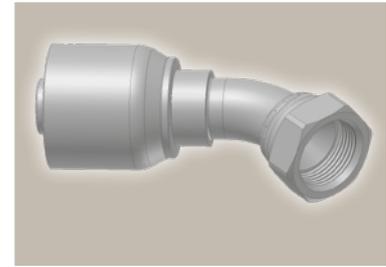
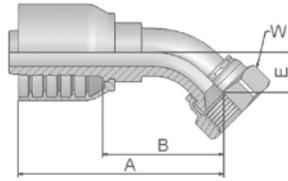
* These fittings contain a dual seat that accepts both JIC (37°) and SAE (45°) male configurations.

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

37 Female JIC 37° – Swivel 45° Elbow

ISO 12151-5-SWE 45° – DKJ 45°

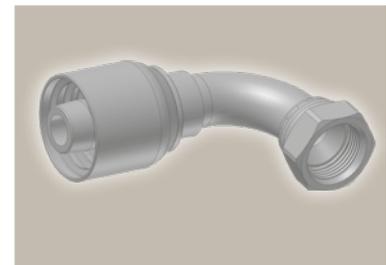
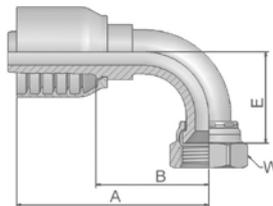


| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 13770-6-6-SM | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 61 | 32 | 11 | 19 |
| 13770-8-8-SM* | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 73 | 38 | 14 | 22 |
| 13770-10-8-SM* | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 78 | 43 | 17 | 27 |
| 13770-8-10-SM* | 16 | 5/8 | -10 | 15.9 | 3/4x16 | 78 | 39 | 15 | 22 |
| 13770-10-10-SM* | 16 | 5/8 | -10 | 15.9 | 7/8x14 | 83 | 42 | 16 | 27 |
| 13770-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 88 | 48 | 21 | 32 |
| 13770-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 91 | 52 | 20 | 32 |
| 13770-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 111 | 66 | 24 | 41 |
| 13770-20-16-SM | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 114 | 67 | 26 | 50 |

* These fittings contain a dual seat that accepts both JIC (37°) and SAE (45°) male configurations.

39/3W Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow

ISO 12151-5-SWES – DKJ 90°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 13970-6-6-SM | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 57 | 28 | 23 | 19 |
| 13W70-8-6-SM | 10 | 3/8 | -6 | 9.5 | 3/4x16 | 64 | 35 | 29 | 22 |
| 13970-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 87 | 48 | 48 | 32 |
| 13970-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 89 | 50 | 48 | 32 |
| 13970-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 89 | 49 | 56 | 41 |
| 13970-12-16-SM | 25 | 1 | -16 | 25.4 | 1 1/16x12 | 99 | 54 | 46 | 32 |
| 13970-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 109 | 64 | 56 | 41 |
| 13970-20-16-SM | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 111 | 64 | 62 | 50 |

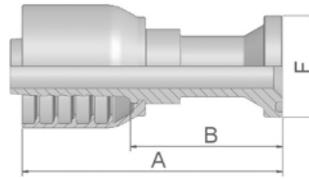
* These fittings contain a dual seat that accepts both JIC (37°) and SAE (45°) male configurations.

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

15 ISO 6162-1-Flange Straight

ISO 12151-3-S-L – SFL
(21.0 MPa/ 3000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 11570-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 89 | 54 | 30 |
| 11570-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8 | 116 | 79 | 34 |
| 11570-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 69 | 30 | 38 |
| 11570-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 98 | 59 | 38 |
| 11570-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 70 | 31 | 45 |
| 11570-20-12 | 19 | 3/4 | -12 | 19.1 | 1 1/4 | 75 | 36 | 51 |
| 11570-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 111 | 66 | 38 |
| 11570-16-16 | 25 | 1 | -16 | 25.4 | 1 | 108 | 63 | 45 |
| 11570-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 82 | 36 | 51 |

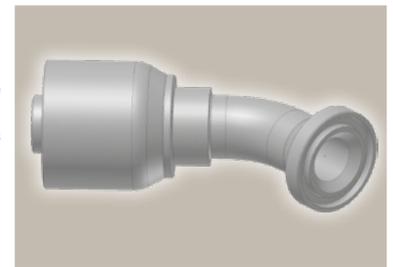
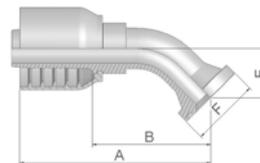
SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

O-rings see section Eb. Special O-rings are available on request.

17 ISO 6162-1 Flange 45° Elbow

ISO 12151-3 – E45 – L – SFL 45°
(21.0 MPa/ 3000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 11770-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 79 | 44 | 20 | 30 |
| 11770-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8 | 104 | 67 | 24 | 34 |
| 11770-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 96 | 57 | 26 | 38 |
| 11770-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 98 | 58 | 26 | 38 |
| 11770-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 97 | 57 | 25 | 45 |
| 11770-16-16 | 25 | 1 | -16 | 25.4 | 1 | 119 | 73 | 27 | 45 |
| 11770-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 121 | 76 | 32 | 51 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

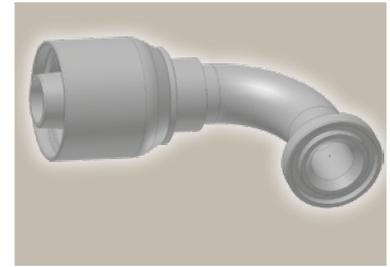
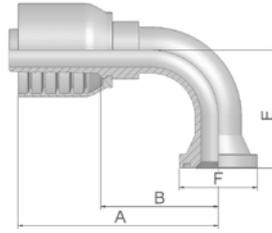
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

70 | 371LT | 372 | 372RH | 372TC | 701 | 701 TC | F42-8

19 ISO 6162-1-Flange 90° Elbow

ISO 12151-3 – E- L – SFL 90°
(21.0 MPa/ 3000 psi)



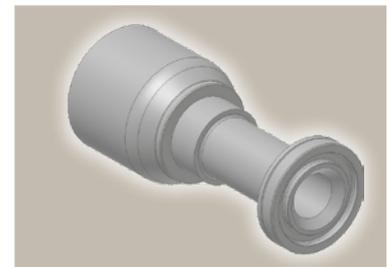
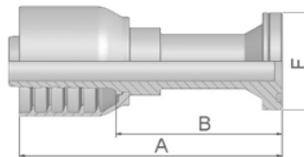
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 11970-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 75 | 40 | 41 | 30 |
| 11970-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 77 | 42 | 42 | 38 |
| 11970-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8 | 92 | 55 | 55 | 34 |
| 11970-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 95 | 65 | 54 | 38 |
| 11970-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 89 | 50 | 58 | 38 |
| 11970-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 90 | 50 | 58 | 45 |
| 11970-16-16 | 25 | 1 | -16 | 25.4 | 1 | 105 | 55 | 61 | 45 |
| 11970-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 113 | 68 | 70 | 51 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

6A ISO 6162-2-Flange Straight

ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 16A70-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 103 | 68 | 32 |
| 16A70-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 105 | 70 | 41 |
| 16A70-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 107 | 68 | 32 |
| 16A70-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 117 | 78 | 41 |
| 16A70-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2 | 107 | 67 | 32 |
| 16A70-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 105 | 66 | 41 |
| 16A70-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 110 | 70 | 48 |
| 16A70-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 127 | 82 | 41 |
| 16A70-16-16 | 25 | 1 | -16 | 25.4 | 1 | 127 | 82 | 48 |
| 16A70-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 127 | 82 | 54 |

SAE flange halves see in section Eb.

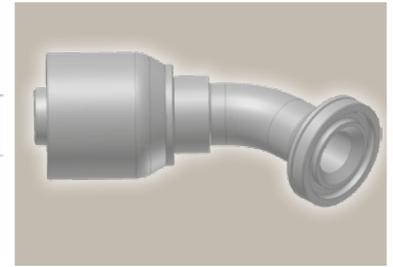
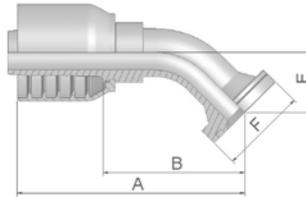
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

6F ISO 6162-2-Flange 45° Elbow – Heavy Series

ISO 12151-3 – E45-S – SFS 45°
(42.0 MPa/ 6000 psi)



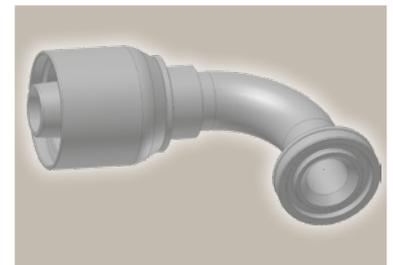
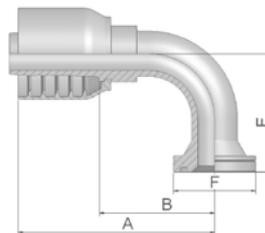
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 16F70-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 81 | 46 | 19 | 32 |
| 16F70-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 90 | 55 | 26 | 41 |
| 16F70-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 92 | 53 | 26 | 32 |
| 16F70-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 92 | 55 | 26 | 41 |
| 16F70-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2 | 94 | 54 | 26 | 32 |
| 16F70-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 105 | 66 | 26 | 41 |
| 16F70-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 101 | 62 | 26 | 48 |
| 16F70-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 118 | 73 | 27 | 41 |
| 16F70-16-16 | 25 | 1 | -16 | 25.4 | 1 | 117 | 77 | 27 | 48 |
| 16F70-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 117 | 70 | 31 | 54 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

6N ISO 6162-2-Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 16N70-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 74 | 39 | 41 | 32 |
| 16N70-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 79 | 44 | 45 | 41 |
| 16N70-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 95 | 56 | 54 | 32 |
| 16N70-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 92 | 55 | 54 | 41 |
| 16N70-16-10 | 16 | 5/8 | -10 | 15.9 | 1 | 86 | 46 | 54 | 48 |
| 16N70-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2 | 81 | 42 | 54 | 32 |
| 16N70-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 98 | 58 | 54 | 41 |
| 16N70-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 92 | 53 | 53 | 48 |
| 16N70-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 113 | 66 | 57 | 41 |
| 16N70-16-16 | 25 | 1 | -16 | 25.4 | 1 | 111 | 64 | 70 | 48 |
| 16N70-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 115 | 68 | 68 | 54 |

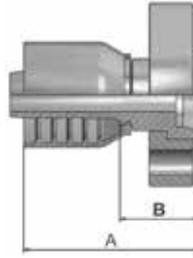
SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

70 | 371LT | 372 | 372RH | 372TC | 701 | 701 TC | F42-8

PY **Flange – 24° Male
French Gas
Straight**



| Part Number |  Hose I.D. | | | | A mm | B mm |
|-------------|------------------------------------------------------------------------------------------------|------|------|------|---------|---------|
| | DN | Inch | Size | mm | | |
| 1PY70-10-10 | 16 | 5/8 | -10 | 15.9 | 63 | 24 |
| 1PY70-12-12 | 19 | 3/4 | -12 | 19.1 | 69 | 30 |
| 1PY70-16-16 | 25 | 1 | -16 | 25.4 | 87 | 41 |

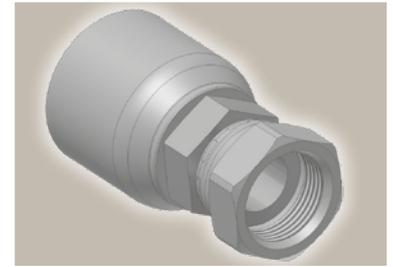
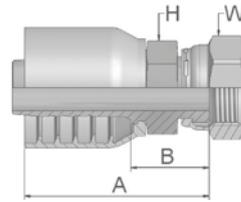
Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | |
|-----------|-------|-----|-------|-------|-----|--------|-------|
| 70 | 371LT | 372 | 372RH | 372TC | 701 | 701 TC | F42-8 |
|-----------|-------|-----|-------|-------|-----|--------|-------|

JC

Female ORFS Swivel – Straight Short

ISO 12151-1 – SWSA
SAE J516 – ORFS

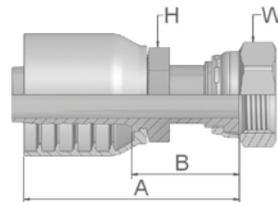


| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1JC70-6-6-SM | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 49 | 20 | 19 | 22 |
| 1JC70-8-6-SM | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 51 | 22 | 19 | 24 |
| 1JC70-8-8-SM | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 56 | 24 | 13/16 | 15/16 |
| 1JC70-10-8-SM | 12 | 1/2 | -8 | 12.7 | 1x14 | 58 | 24 | 24 | 30 |
| 1JC70-12-8-SM | 12 | 1/2 | -8 | 12.7 | 1 3/16x12 | 63 | 28 | 32 | 36 |
| 1JC70-8-10-SM | 16 | 5/8 | -10 | 15.9 | 13/16x16 | 58 | 22 | 24 | 24 |
| 1JC70-10-10-SM | 16 | 5/8 | -10 | 15.9 | 1x14 | 64 | 24 | 24 | 30 |
| 1JC70-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 68 | 29 | 32 | 36 |
| 1JC70-8-12-SM | 19 | 3/4 | -12 | 19.1 | 13/16x16 | 61 | 22 | 27 | 24 |
| 1JC70-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 68 | 29 | 32 | 36 |
| 1JC70-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 72 | 33 | 36 | 41 |
| 1JC70-12-16-SM | 25 | 1 | -16 | 25.4 | 13/16x12 | 76 | 31 | 36 | 36 |
| 1JC70-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 80 | 35 | 36 | 41 |
| 1JC70-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 80 | 33 | 41 | 50 |

JS

ORFS Swivel Female (Long)

ISO 12151-1-SWSB
SAE J516 – ORFS



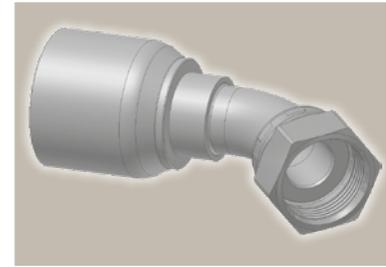
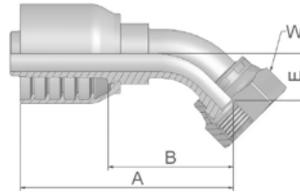
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1JS70-6-6-SM | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 58 | 29 | 17 | 22 |
| 1JS70-8-6-SM | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 64 | 35 | 19 | 24 |
| 1JS70-8-8-SM | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 67 | 33 | 22 | 24 |
| 1JS70-10-8-SM | 12 | 1/2 | -8 | 12.7 | 1x14 | 73.5 | 38.5 | 24 | 30 |
| 1JS70-10-10-SM | 16 | 5/8 | -10 | 15.9 | 1x14 | 79 | 39 | 24 | 30 |
| 1JS70-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 84 | 45 | 30 | 36 |
| 1JS70-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 86 | 47 | 36 | 41 |
| 1JS70-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 98 | 53 | 36 | 41 |
| 1JS70-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 94 | 47 | 41 | 50 |

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

J7 Female ORFS – Swivel 45° Elbow

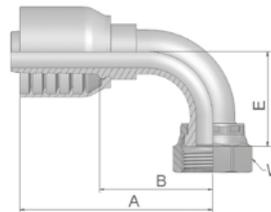
ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1J770-6-6-SM | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 62 | 33 | 11 | 22 |
| 1J770-8-6-SM | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 64 | 35 | 15 | 24 |
| 1J770-6-8-SM | 12 | 1/2 | -8 | 12.7 | 11/16x16 | 68 | 33 | 11 | 22 |
| 1J770-8-8-SM | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 72 | 37 | 15 | 24 |
| 1J770-10-8-SM | 12 | 1/2 | -8 | 12.7 | 1x14 | 80 | 46 | 17 | 30 |
| 1J770-10-10-SM | 16 | 5/8 | -10 | 15.9 | 1x14 | 83 | 44 | 16 | 30 |
| 1J770-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 90 | 53 | 21 | 36 |
| 1J770-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 92 | 53 | 21 | 36 |
| 1J770-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 95 | 56 | 24 | 41 |
| 1J770-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 113 | 66 | 24 | 41 |

J9 Female ORFS – Swivel 90° Elbow – Short Drop

ISO 12151-1 – SWES
SAE J516 – ORFS 90°



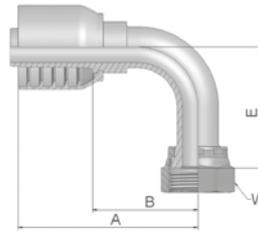
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1J970-6-6-SM | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 58 | 29 | 23 | 22 |
| 1J970-8-6-SM | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 58 | 29 | 29 | 24 |
| 1J970-8-8-SM | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 70 | 35 | 29 | 24 |
| 1J970-10-8-SM | 12 | 1/2 | -8 | 12.7 | 1x14 | 73 | 38 | 32 | 30 |
| 1J970-12-8-SM | 12 | 1/2 | -8 | 12.7 | 1 3/16x12 | 76 | 41 | 48 | 36 |
| 1J970-10-10-SM | 16 | 5/8 | -10 | 15.9 | 1x14 | 78 | 39 | 33 | 30 |
| 1J970-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 86 | 50 | 48 | 36 |
| 1J970-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 89 | 49 | 48 | 36 |
| 1J970-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 89 | 49 | 56 | 41 |
| 1J970-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 111 | 64 | 56 | 41 |
| 1J970-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 111 | 64 | 64 | 50 |

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

J1 Female ORFS – Swivel 90° Elbow – Long Drop

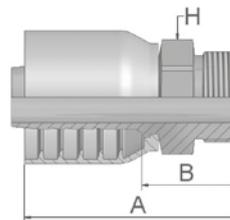
ISO 12151-1 – SWEL
SAE J 516 – ORFS 90° L



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1J170-8-8-SM | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 71 | 36 | 64 | 24 |
| 1J170-10-8-SM | 12 | 1/2 | -8 | 12.7 | 1x14 | 73 | 38 | 70 | 30 |
| 1J170-10-10-SM | 16 | 5/8 | -10 | 15.9 | 1x14 | 78 | 39 | 70 | 30 |
| 1J170-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 76 | 40 | 96 | 36 |
| 1J170-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 89 | 49 | 96 | 36 |
| 1J170-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 109 | 64 | 114 | 41 |

JM ORFS Male

ISO 12151-1-S – SAE J516



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm |
|----------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1JM70-6-6-SM | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 53 | 24 | 19 |
| 1JM70-8-6-SM | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 56 | 27 | 22 |
| 1JM70-8-8-SM | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 62 | 27 | 22 |
| 1JM70-10-8-SM | 12 | 1/2 | -8 | 12.7 | 1x14 | 66 | 32 | 27 |
| 1JM70-10-10-SM | 16 | 5/8 | -10 | 15.9 | 1x14 | 68 | 32 | 27 |
| 1JM70-12-10-SM | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 71 | 34 | 32 |
| 1JM70-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 74 | 34 | 32 |
| 1JM70-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 74 | 35 | 41 |
| 1JM70-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 84 | 39 | 41 |
| 1JM70-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 82 | 37 | 46 |

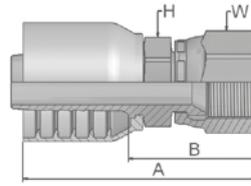
JM fittings are supplied without O-ring.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

XU Female Metric – Swivel Straight (30° Flare)

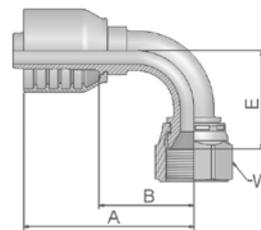
JIS B8363



| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | H mm | W mm |
|-------------|-----------|------|------|------|------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1XU70-10-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 67 | 28 | 30 | 32 |
| 1XU70-12-12 | 19 | 3/4 | -12 | 19.1 | M30x1.5 | 68 | 28 | 32 | 36 |
| 1XU70-16-16 | 25 | 1 | -16 | 25.4 | M33x1.5 | 82 | 35 | 36 | 41 |

XY Female Metric – Swivel 90° Elbow (30° Flare)

JIS B8363



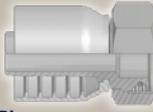
| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1XY70-10-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 77 | 41 | 41 | 32 |
| 1XY70-12-12 | 19 | 3/4 | -12 | 19.1 | M24x1.5 | 89 | 49 | 52 | 36 |

Approved **fitting series** for hose types, depending on size:

70 371LT 372 372RH 372TC 701 701 TC F42-8

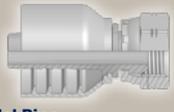
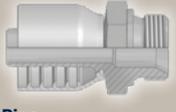
DIN – Metric

Page Dc-1 – Dc-4

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CA Dc-1</p>  <p>Female Metric 24° Light Series with O-Ring Swivel – Straight ISO 12151-2-SWS-L – DKOL</p> | <p>CE Dc-1</p>  <p>Female Metric 24° Light Series with O-Ring Swivel – 45° Elbow ISO 12151-2-SWE-L – DKOL 45°</p> | <p>CF Dc-2</p>  <p>Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow ISO 12151-2-SWE-L – DKOL 90°</p> | <p>C9 Dc-2</p>  <p>Female Metric 24° – Swivel Heavy Series with O-Ring Straight ISO 12151-2-SWS-S – DKOS</p> |
| <p>0C Dc-3</p>  <p>Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow ISO 12151-2 – SWE – S – DKOS 45°</p> | <p>1C Dc-3</p>  <p>Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow ISO 12151-2-SWE-S – DKOS 90°</p> | <p>D2 Dc-4</p>  <p>Male Metric 24° – Rigid Heavy Series – Straight ISO 12151-2-S-S – CES</p> | |

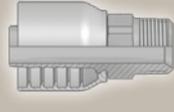
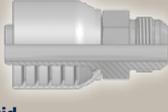
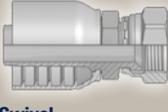
BSP

Page Dc-5 – Dc-6

| | | | |
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| <p>92 Dc-5</p>  <p>Female BSP Parallel Pipe Swivel – Straight (60° Cone) BS5200-A – DKR</p> | <p>B1 Dc-5</p>  <p>Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone) BS 5200-D – DKR 45°</p> | <p>B2 Dc-6</p>  <p>Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) BS 5200-B – DKR 90°</p> | <p>D9 Dc-6</p>  <p>Male BSP Parallel Pipe Rigid – Straight (60° Cone) BS5200 – AGR</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

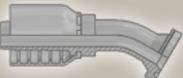
SAE

Page Dc-6 – Dc-8

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>01 Dc-7</p>  <p>Male NPTF Pipe Rigid – Straight SAE J476A / J516 – AGN</p> | <p>03 Dc-7</p>  <p>Male JIC 37° – Rigid Straight ISO12151-5-S – AGJ</p> | <p>06 Dc-8</p>  <p>Female JIC 37° – Swivel Straight ISO12151-5-SWS – DKJ</p> | <p>37 Dc-8</p>  <p>Female JIC 37° – Swivel 45° Elbow ISO 12151-5-SWE 45° – DKJ 45°</p> |
| <p>39 Dc-9</p>  <p>Female JIC 37° – Swivel 90° Elbow ISO 12151-5-SWES – DKJ 90°</p> | | | |

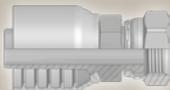
Flange

Page Dc-10 – Dc-15

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| <p>15/4A Dc-10 ISO 6162-1-Flange Straight ISO 12151-3-S-L – SFL (35.0 MPa/ 5000 psi)</p>  | <p>17/4F Dc-10 ISO 6162-1-Flange 45° Elbow ISO 12151-3 – E45S – L – SFL 45° (35.0 MPa/ 5000 psi)</p>  | <p>19/4N Dc-11 ISO 6162-1-Flange 90° Elbow ISO 12151-3-E-L – SFL 90° (35.0 MPa/ 5000 psi)</p>  | <p>6A Dc-11 ISO 6162-2-Flange Straight ISO 12151-3-S-S – SFS (42.0 MPa/ 6000 psi)</p>  |
| <p>6E Dc-12 ISO 6162-2 Flange 30° Elbow SFS 30° (42.0 MPa/ 6000 psi)</p>  | <p>6F Dc-12 ISO 6162-2-Flange 45° Elbow – Heavy Series ISO 12151-3 – E45-S – SFS 45° (42.0 MPa/ 6000 psi)</p>  | <p>6N Dc-13 ISO 6162-2-Flange 90° Elbow ISO 12151-3 – E-S – SFS 90° (42.0 MPa/ 6000 psi)</p>  | <p>XA Dc-13 Caterpillar® Flange Straight</p>  |
| <p>XF Dc-14 Caterpillar® Flange 45° Elbow</p>  | <p>XG Dc-14 Caterpillar® Flange 60° Elbow</p>  | <p>XN Dc-15 Caterpillar® Flange 90° Elbow</p>  | |

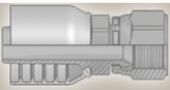
ORFS

Page Dc-16 – Dc-18

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| <p>JC Dc-16 Female ORFS Swivel – Straight Short ISO 12151-1 – SWSA SAE J516 – ORFS</p>  | <p>JS Dc-16 ORFS Swivel Female (Long) ISO 12151-1-SWSB SAE J516 – ORFS</p>  | <p>J7 Dc-17 Female ORFS – Swivel 45° Elbow ISO 12151-1 – SWE 45° SAE J516 – ORFS 45°</p>  | <p>J9 Dc-17 Female ORFS – Swivel 90° Elbow – Short Drop ISO 12151-1 – SWES SAE J516 – ORFS 90°</p>  |
| <p>JM Dc-18 ORFS Male ISO 12151-1-S – SAE J516</p>  | | | |

Others

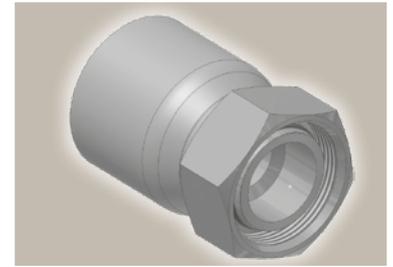
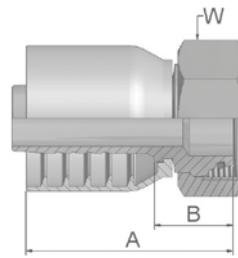
Page Dc-19

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| <p>XU Dc-19 Female Metric – Swivel Straight (30° Flare) JIS B8363</p>  |
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**A large range of special hose fittings
for the MRO market can be found
on page Dc-20**

CA Female Metric 24° Light Series with O-Ring Swivel – Straight

ISO 12151-2-SWS-L – DKOL

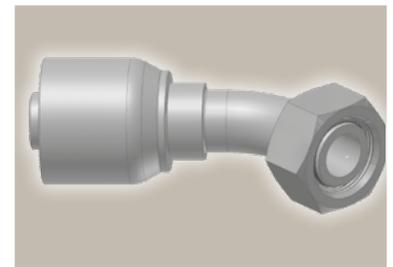
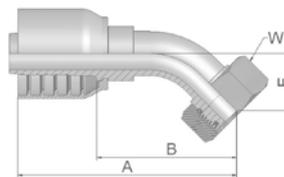


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1CA73-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 87 | 36 | 41 |
| 1CA73-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 103 | 39 | 50 |
| 1CA73-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 104 | 41 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

CE Female Metric 24° Light Series with O-Ring Swivel – 45° Elbow

ISO 12151-2-SWE -L – DKOL 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm | |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|----|
| | DN | Inch | Size | mm | | | | | | |
| 1CE73-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 162 | 97 | 37 | 50 |

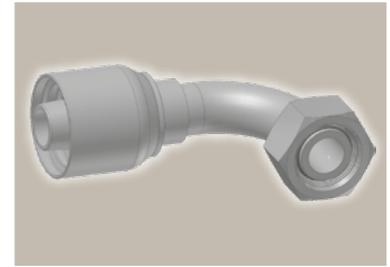
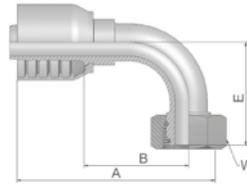
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

CF Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow

ISO 12151-2-SWE-L – DKOL 90°

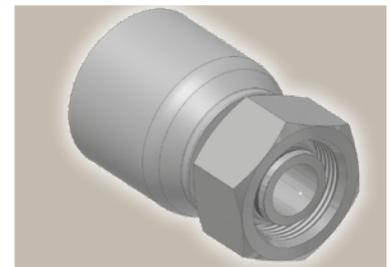
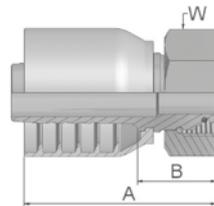


| Bestell-Nr. | Schlauch ID | | | | Gewinde metrisch | Rohr AD mm | A mm | B mm | E mm | W mm |
|-------------|-------------|-------|------|------|---------------------|------------------|---------|---------|---------|---------|
| | DN | Zoll | Size | mm | | | | | | |
| 1CF73-28-16 | 25 | 1 | -16 | 25.4 | - | - | - | - | - | - |
| 1CF73-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 150 | 86 | 79 | 50 |
| 1CF73-42-24 | 38 | 1 1/2 | -24 | 38.1 | - | - | - | - | - | - |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-----------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1C973-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 81 | 33 | 36 |
| 1C973-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 79 | 31 | 46 |
| 1C973-25-12SW41 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 79 | 31 | 41 |
| 1C973-30-12 | 19 | 3/4 | -12 | 19.1 | M42x2 | 30 | 82 | 34 | 50 |
| 1C973-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 87 | 36 | 46 |
| 1C973-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 87 | 36 | 50 |
| 1C973-25-20 | 31 | 1 1/4 | -20 | 31.8 | M36x2 | 25 | 102 | 38 | 46 |
| 1C973-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 106 | 42 | 50 |
| 1C973-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 101 | 37 | 60 |
| 1C973-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 105 | 42 | 60 |

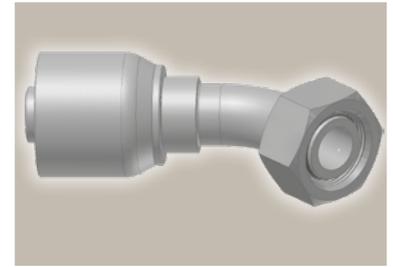
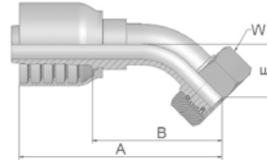
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

0C Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE -S – DKOS 45°

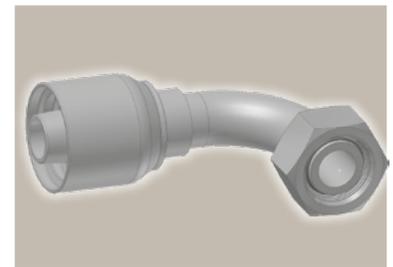
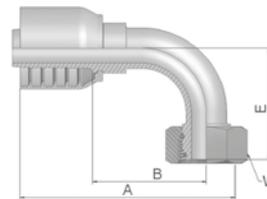


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-----------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 10C73-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 113 | 65 | 30 | 36 |
| 10C73-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 112 | 64 | 29 | 46 |
| 10C73-25-12SW41 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 112 | 64 | 29 | 41 |
| 10C73-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 128 | 78 | 33 | 46 |
| 10C73-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 137 | 128 | 33 | 50 |
| 10C73-25-20 | 31 | 1 1/4 | -20 | 31.8 | M36x2 | 25 | 150 | 86 | 33 | 46 |
| 10C73-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 155 | 91 | 34 | 50 |
| 10C73-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 161 | 97 | 37 | 60 |
| 10C73-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 182 | 120 | 49 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°



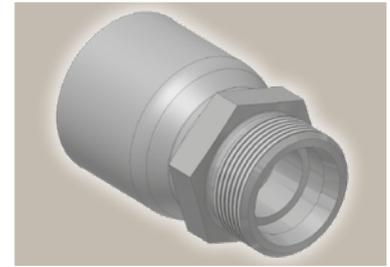
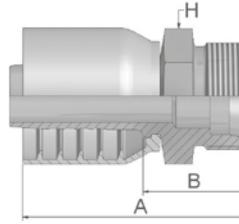
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-----------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 11C73-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 101 | 53 | 60 | 36 |
| 11C73-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 101 | 53 | 59 | 46 |
| 11C73-25-12SW41 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 101 | 53 | 59 | 41 |
| 11C73-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 117 | 67 | 69 | 46 |
| 11C73-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 118 | 67 | 69 | 50 |
| 11C73-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 137 | 73 | 73 | 50 |
| 11C73-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 151 | 87 | 78 | 60 |
| 11C73-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 166 | 103 | 101 | 60 |
| 11C73-38-32 | 51 | 2 | -32 | 50.8 | M52x2 | 38 | 224 | 152 | 166 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

D2 **Male Metric 24° – Rigid
Heavy Series – Straight**
ISO 12151-2-S-S – CES



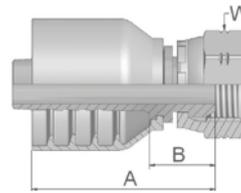
| Part Number |  Hose I.D. | | | |  Thread metric | Tube | A mm | B mm |  H mm |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|-------------------------------------------------------------------------------------------------------|------------|---------|---------|------------------------------------------------------------------------------------------------|
| | DN | Inch | Size | mm | | O.D. mm | | | |
| 1D273-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 84 | 35 | 30 |
| 1D273-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 86 | 38 | 36 |
| 1D273-30-12 | 19 | 3/4 | -12 | 19.1 | M42x2 | 30 | 90 | 42 | 46 |
| 1D273-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 91 | 40 | 36 |
| 1D273-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 94 | 42 | 46 |
| 1D273-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 110 | 46 | 46 |
| 1D273-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 112 | 46 | 55 |

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

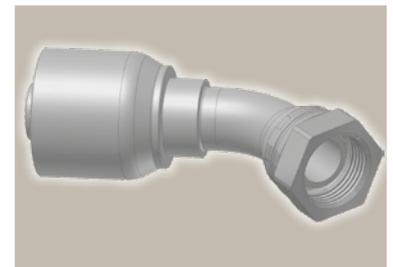
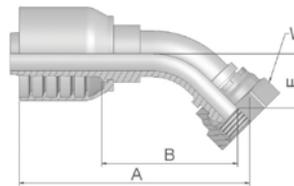
BS5200-A – DKR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 19273-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 75 | 27 | 32 |
| 19273-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 89 | 38 | 41 |
| 19273-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 101 | 37 | 50 |
| 19273-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2x11 | 101 | 37 | 55 |
| 19273-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 100 | 37 | 55 |
| 19273-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 113 | 38 | 70 |

B1 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone)

BS 5200-D – DKR 45°



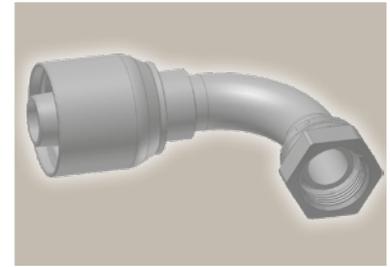
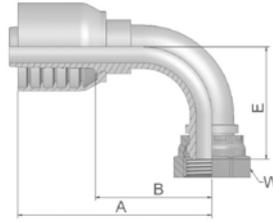
| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1B173-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 110 | 62 | 26 | 32 |
| 1B173-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 136 | 84 | 36 | 41 |
| 1B173-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 168 | 104 | 43 | 50 |
| 1B173-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 186 | 123 | 52 | 55 |
| 1B173-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 249 | 177 | 70 | 70 |

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

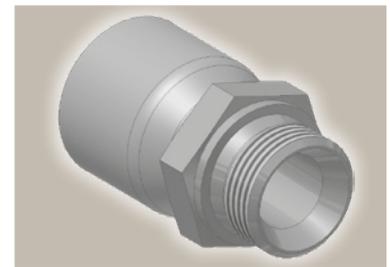
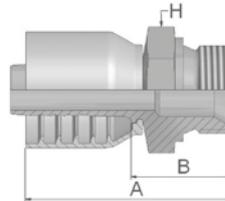
BS 5200-B – DKR 90°



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1B273-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 106 | 58 | 55 | 32 |
| 1B273-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 120 | 70 | 74 | 41 |
| 1B273-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 151 | 87 | 80 | 50 |
| 1B273-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2x11 | 151 | 87 | 80 | 55 |
| 1B273-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 166 | 103 | 103 | 55 |
| 1B273-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 229 | 157 | 121 | 70 |

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1D973-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 87 | 39 | 32 |
| 1D973-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 96 | 43 | 41 |
| 1D973-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 113 | 49 | 50 |
| 1D973-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 114 | 51 | 55 |
| 1D973-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 129 | 58 | 70 |

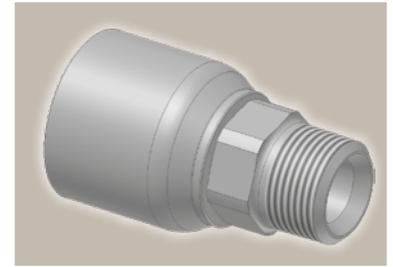
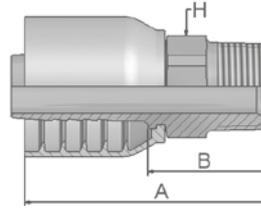
Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

01

Male NPTF Pipe Rigid – Straight

SAE J476A / J516 – AGN

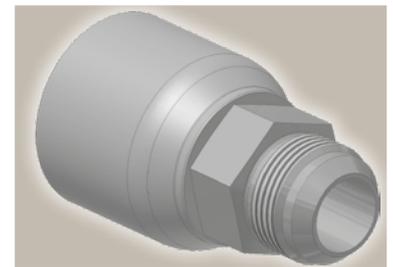
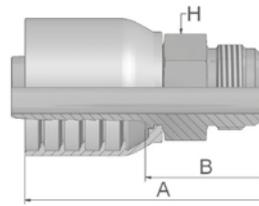


| Part Number | Hose I.D. | | | | Thread NPTF | A mm | B mm | H | |
|----------------|-----------|-------|------|------|----------------|---------|---------|-------|------|
| | DN | Inch | Size | mm | | | | mm | Inch |
| 10173-12-12-SM | 19 | 3/4 | -12 | 19.1 | 3/4-14 | 90 | 42 | 30 | |
| 10173-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1-11 1/2 | 96 | 48 | 36 | |
| 10173-16-16-SM | 25 | 1 | -16 | 25.4 | 1-11 1/2 | 100 | 50 | 36 | |
| 10173-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 1/4-11 1/2 | 125 | 61 | 46 | |
| 10173-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 1 1/2-11 1/2 | 124 | 62 | 50 | |
| 10173-32-32 | 51 | 2 | -32 | 50.8 | 2-11 1/2 | 141 | 73 | 2 1/2 | |

03

Male JIC 37° – Rigid Straight

ISO12151-5-S – AGJ



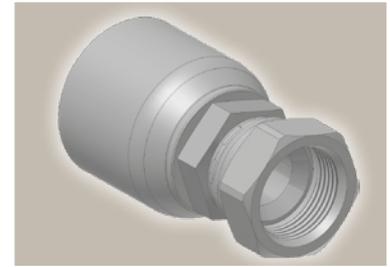
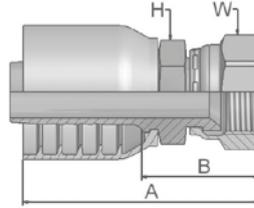
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H | |
|----------------|-----------|-------|------|------|---------------|---------|---------|----|----|
| | DN | Inch | Size | mm | | | | mm | mm |
| 10373-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 89 | 41 | 30 | |
| 10373-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 93 | 45 | 36 | |
| 10373-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 97 | 47 | 36 | |
| 10373-20-16-SM | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 102 | 52 | 46 | |
| 10373-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 118 | 54 | 46 | |
| 10373-24-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 118 | 54 | 50 | |
| 10373-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 122 | 59 | 50 | |
| 10373-32-32-SM | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 143 | 72 | 65 | |

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

06 Female JIC 37° – Swivel Straight

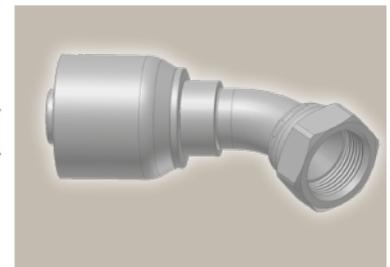
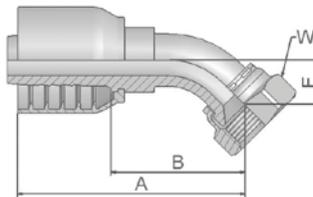
ISO12151-5-SWS – DKJ



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H | | W | |
|----------------|-----------|-------|------|------|---------------|---------|---------|----|------|----|------|
| | DN | Inch | Size | mm | | | | mm | Inch | mm | Inch |
| 10673-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 93 | 45 | 30 | | 32 | |
| 10673-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 99 | 51 | 36 | | 41 | |
| 10673-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 103 | 52 | 36 | | 41 | |
| 10673-20-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 109 | 59 | 41 | | 50 | |
| 10673-16-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 5/16x12 | 116 | 52 | 46 | | 41 | |
| 10673-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 125 | 61 | 46 | | 50 | |
| 10673-24-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 130 | 66 | 50 | | 60 | |
| 10673-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 128 | 66 | 50 | | 60 | |
| 10673-32-24-SM | 38 | 1 1/2 | -24 | 38.1 | 2 1/2x12 | 138 | 76 | 65 | | 75 | |
| 10673-32-32-SM | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 150 | 79 | 65 | | 75 | |

37 Female JIC 37° – Swivel 45° Elbow

ISO 12151-5-SWE 45° – DKJ 45°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|----------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 13773-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 104 | 56 | 22 | 32 |
| 13773-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 107 | 59 | 24 | 41 |
| 13773-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 119 | 69 | 24 | 41 |
| 13773-20-16-SM | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 143 | 92 | 47 | 55 |
| 13773-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 171 | 107 | 47 | 50 |
| 13773-24-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 172 | 108 | 48 | 60 |
| 13773-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 194 | 132 | 58 | 60 |
| 13773-32-24-SM | 38 | 1 1/2 | -24 | 38.1 | 2 1/2x12 | 208 | 145 | 72 | 75 |
| 13773-32-32-SM | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 251 | 179 | 72 | 75 |

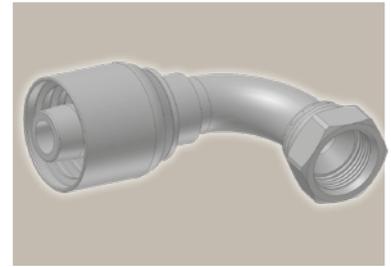
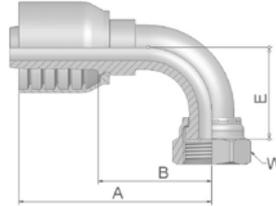
Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

39

Female JIC 37° – Swivel 90° Elbow

ISO 12151-5-SWES – DKJ 90°



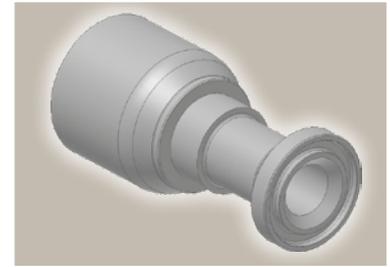
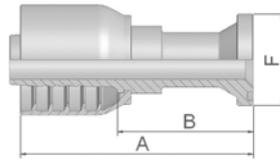
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|----------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 13973-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 101 | 53 | 48 | 32 |
| 13973-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 101 | 53 | 56 | 41 |
| 13973-16-16-SM | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 118 | 67 | 56 | 41 |
| 13973-20-16-SM | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 118 | 67 | 85 | 55 |
| 13973-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 150 | 87 | 85 | 50 |
| 13973-24-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 151 | 87 | 102 | 60 |
| 13973-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 194 | 119 | 102 | 60 |
| 13973-32-24-SM | 38 | 1 1/2 | -24 | 38.1 | 2 1/2x12 | 168 | 106 | 152 | 75 |
| 13973-32-32-SM | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 229 | 157 | 152 | 75 |

Approved **fitting series** for hose types:

| | | | | | | | | |
|-----------|-----|-------|------|--------|--------|------|--------|--------|
| 73 | 731 | 731TC | SX35 | SX35LT | SX35TC | SX42 | SX42LT | SX42TC |
|-----------|-----|-------|------|--------|--------|------|--------|--------|

15/4A ISO 6162-1-Flange Straight

ISO 12151-3-S-L – SFL
(35.0 MPa/ 5000 psi)



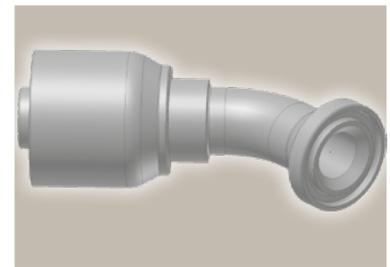
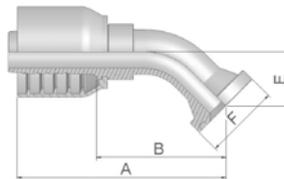
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 11573-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 110 | 62 | 38 |
| 11573-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 110 | 62 | 45 |
| 11573-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 117 | 67 | 38 |
| 11573-16-16 | 25 | 1 | -16 | 25.4 | 1 | 117 | 67 | 45 |
| 14A73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 85 | 34 | 51 |
| 11573-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 133 | 69 | 45 |
| 14A73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 141 | 77 | 51 |
| 14A73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 104 | 40 | 60 |
| 14A73-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 142 | 80 | 51 |
| 14A73-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 166 | 103 | 60 |
| 14A73-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 113 | 50 | 71 |
| 14A73-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 156 | 84 | 60 |
| 14A73-32-32 | 51 | 2 | -32 | 50.8 | 2 | 220 | 148 | 71 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

17/4F ISO 6162-1-Flange 45° Elbow

ISO 12151-3 – E45S – L – SFL 45°
(35.0 MPa/ 5000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 11773-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 119 | 71 | 27 | 38 |
| 11773-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 109 | 64 | 26 | 44 |
| 11773-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 130 | 80 | 32 | 38 |
| 11773-16-16 | 25 | 1 | -16 | 25.4 | 1 | 127 | 77 | 32 | 45 |
| 14F73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 136 | 85 | 32 | 51 |
| 14F73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 160 | 96 | 35 | 51 |
| 14F73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 162 | 102 | 38 | 60 |
| 14F73-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 178 | 115 | 44 | 60 |
| 14F73-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 177 | 114 | 43 | 71 |
| 14F73-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 192 | 120 | 53 | 60 |
| 14F73-32-32 | 51 | 2 | -32 | 50.8 | 2 | 224 | 153 | 62 | 71 |

SAE flange halves see in section Eb.

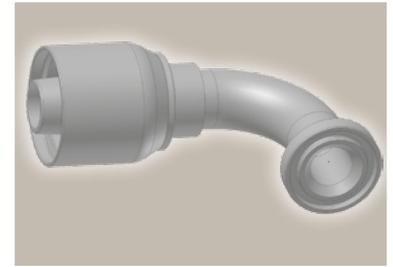
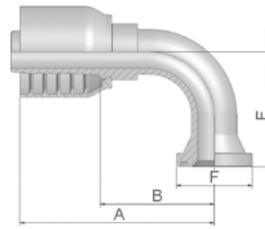
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

19/4N ISO 6162-1-Flange 90° Elbow

ISO 12151-3-E-L – SFL 90°
(35.0 MPa/ 5000 psi)



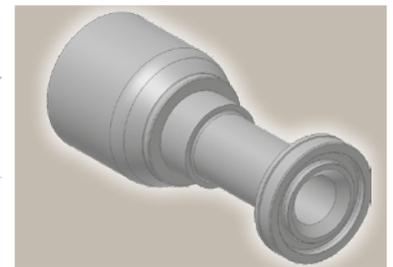
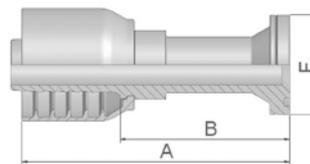
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 11973-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 109 | 61 | 58 | 38 |
| 11973-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 102 | 54 | 58 | 45 |
| 11973-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 121 | 70 | 70 | 38 |
| 11973-16-16 | 25 | 1 | -16 | 25.4 | 1 | 118 | 67 | 70 | 45 |
| 14N73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 128 | 78 | 68 | 51 |
| 14N73-24-16 | 25 | 1 | -16 | 25.4 | 1 1/2 | 132 | 81 | 70 | 60 |
| 11973-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 133 | 69 | 70 | 44 |
| 14N73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 155 | 91 | 90 | 51 |
| 14N73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 155 | 91 | 90 | 60 |
| 14N73-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 166 | 103 | 93 | 60 |
| 14N73-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 166 | 103 | 92 | 71 |
| 14N73-32-32 | 51 | 2 | -32 | 50.8 | 2 | 220 | 148 | 133 | 71 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

6A ISO 6162-2-Flange Straight

ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 16A73-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2 | 123 | 75 | 32 |
| 16A73-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 130 | 82 | 41 |
| 16A73-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 135 | 87 | 48 |
| 16A73-20-12 | 19 | 3/4 | -12 | 19.1 | 1 1/4 | 96 | 48 | 54 |
| 16A73-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 124 | 73 | 41 |
| 16A73-16-16 | 25 | 1 | -16 | 25.4 | 1 | 131 | 81 | 48 |
| 16A73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 142 | 91 | 54 |
| 16A73-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 147 | 83 | 48 |
| 16A73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 149 | 85 | 54 |
| 16A73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 121 | 57 | 64 |
| 16A73-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 158 | 96 | 54 |
| 16A73-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 166 | 104 | 64 |
| 16A73-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 129 | 66 | 79 |
| 16A73-32-32 | 51 | 2 | -32 | 50.8 | 2 | 194 | 122 | 79 |

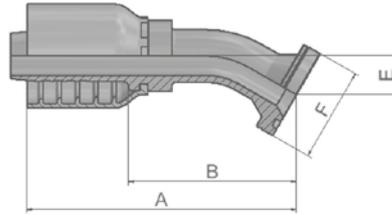
SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

6E **ISO 6162-2 Flange**
30° Elbow
SFS 30°
(42.0 MPa/ 6000 psi)

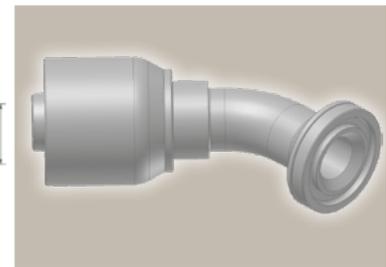
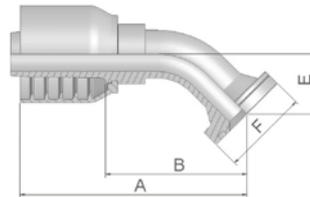


| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 16E73-12-12 | 19 | 3/4 | -12 | 19.1 | - | - | - | - | - |
| 16E73-12-16 | 25 | 1 | -16 | 25.4 | - | - | - | - | - |
| 16E73-16-16 | 25 | 1 | -16 | 25.4 | - | - | - | - | - |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

6F **ISO 6162-2-Flange**
45° Elbow – Heavy Series
ISO 12151-3 – E45-S – SFS 45°
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 16F73-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2 | 107 | 59 | 27 | 32 |
| 16F73-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 110 | 62 | 26 | 41 |
| 16F73-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 110 | 62 | 26 | 48 |
| 16F73-20-12 | 19 | 3/4 | -12 | 19.1 | 1 1/4 | 125 | 77 | 32 | 54 |
| 16F73-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 123 | 73 | 32 | 41 |
| 16F73-16-16 | 25 | 1 | -16 | 25.4 | 1 | 129 | 79 | 32 | 48 |
| 16F73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 129 | 79 | 32 | 54 |
| 16F73-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 157 | 93 | 33 | 48 |
| 16F73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 163 | 98 | 38 | 54 |
| 16F73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 163 | 99 | 38 | 63 |
| 16F73-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 170 | 107 | 44 | 54 |
| 16F73-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 178 | 115 | 44 | 64 |
| 16F73-32-32 | 51 | 2 | -32 | 50.8 | 2 | 230 | 158 | 56 | 79 |

SAE flange halves see in section Eb.

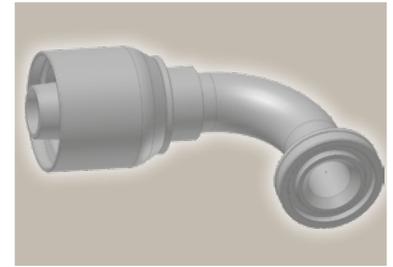
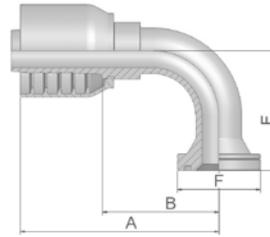
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

| | | | | | | | | |
|-----------|------------|--------------|-------------|---------------|---------------|-------------|---------------|---------------|
| 73 | 731 | 731TC | SX35 | SX35LT | SX35TC | SX42 | SX42LT | SX42TC |
|-----------|------------|--------------|-------------|---------------|---------------|-------------|---------------|---------------|

6N ISO 6162-2-Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
(42.0 MPa/ 6000 psi)

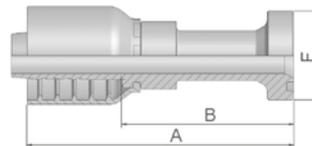


| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 16N73-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2 | 92 | 44 | 58 | 32 |
| 16N73-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 101 | 53 | 58 | 41 |
| 16N73-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 111 | 63 | 58 | 48 |
| 16N73-20-12 | 19 | 3/4 | -12 | 19.1 | 1 1/4 | 110 | 62 | 63 | 54 |
| 16N73-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 109 | 58 | 70 | 41 |
| 16N73-16-16 | 25 | 1 | -16 | 25.4 | 1 | 122 | 71 | 70 | 48 |
| 16N73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 122 | 71 | 70 | 54 |
| 16N73-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 137 | 73 | 90 | 48 |
| 16N73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 172 | 108 | 71 | 54 |
| 16N73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 172 | 108 | 76 | 64 |
| 16N73-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 152 | 90 | 104 | 54 |
| 16N73-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 166 | 103 | 104 | 64 |
| 16N73-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 166 | 103 | 104 | 79 |
| 16N73-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 188 | 116 | 104 | 64 |
| 16N73-32-32 | 51 | 2 | -32 | 50.8 | 2 | 229 | 157 | 138 | 79 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

XA Caterpillar® Flange Straight



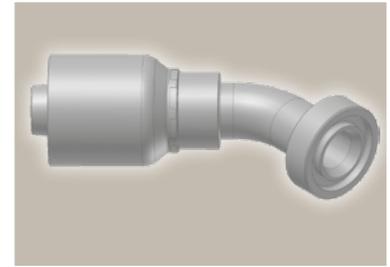
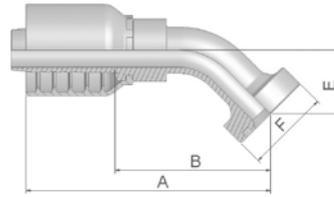
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1XA73-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 123 | 75 | 41 |
| 1XA73-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 134 | 86 | 48 |
| 1XA73-16-16 | 25 | 1 | -16 | 25.4 | 1 | 138 | 88 | 48 |
| 1XA73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 144 | 93 | 54 |
| 1XA73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 155 | 96 | 54 |
| 1XA73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 162 | 97 | 64 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

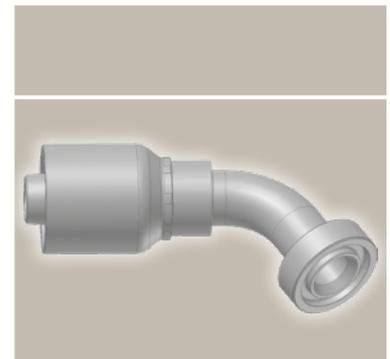
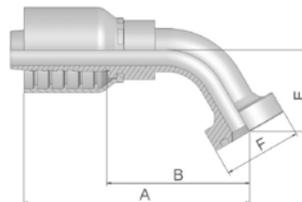
XF Caterpillar® Flange 45° Elbow



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1XF73-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 123 | 75 | 31 | 41 |
| 1XF73-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 122 | 74 | 31 | 48 |
| 1XF73-16-16 | 25 | 1 | -16 | 25.4 | 1 | 139 | 88 | 36 | 48 |
| 1XF73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 162 | 98 | 37 | 54 |
| 1XF73-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 182 | 117 | 36 | 64 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

XG Caterpillar® Flange 60° Elbow



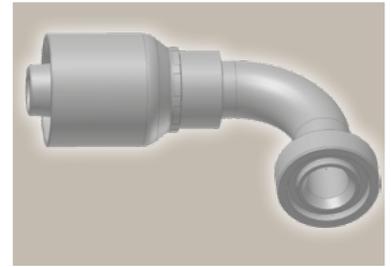
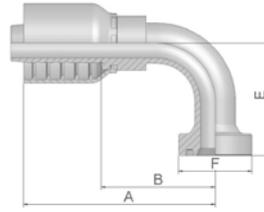
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1XG73-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 41 | 138 | 90 | 42 |
| 1XG73-16-16 | 25 | 1 | -16 | 25.4 | 1 | 48 | 160 | 109 | 50 |
| 1XG73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 54 | 153 | 103 | 48 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

**XN Caterpillar® Flange
90° Elbow**



| Part Number |  Hose I.D. | | | |  Flange | A mm | B mm | E mm | F mm |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1XN73-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 111 | 63 | 63 | 41 |
| 1XN73-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 111 | 63 | 62 | 48 |
| 1XN73-16-16 | 25 | 1 | -16 | 25.4 | 1 | 128 | 78 | 74 | 48 |
| 1XN73-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 122 | 71 | 74 | 54 |
| 1XN73-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 172 | 108 | 77 | 54 |

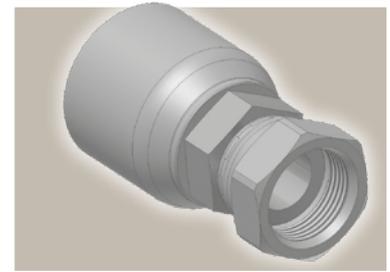
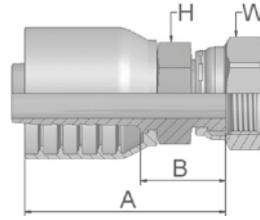
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

| | | | | | | | | |
|-----------|-----|-------|------|--------|--------|------|--------|--------|
| 73 | 731 | 731TC | SX35 | SX35LT | SX35TC | SX42 | SX42LT | SX42TC |
|-----------|-----|-------|------|--------|--------|------|--------|--------|

JC Female ORFS Swivel – Straight Short

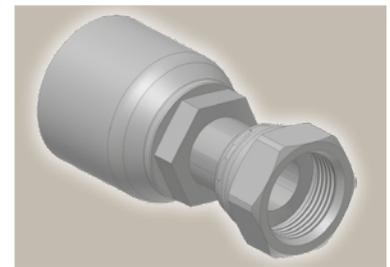
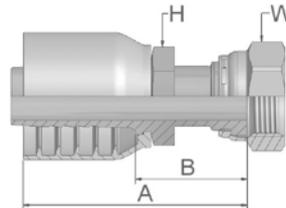
ISO 12151-1 – SWSA
SAE J516 – ORFS



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|----------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1JC73-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 81 | 33 | 30 | 36 |
| 1JC73-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 89 | 38 | 36 | 41 |
| 1JC73-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 106 | 42 | 46 | 50 |
| 1JC73-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 117 | 44 | 50 | 60 |

JS ORFS Swivel Female (Long)

ISO 12151-1-SWSB
SAE J516 – ORFS



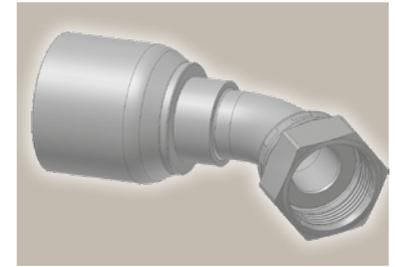
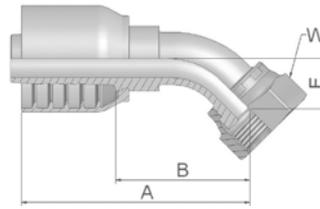
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H | | W | |
|----------------|-----------|-------|------|------|---------------|---------|---------|----|------|----|------|
| | DN | Inch | Size | mm | | | | mm | Inch | mm | Inch |
| 1JS73-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 94 | 46 | 30 | | 36 | |
| 1JS73-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 107 | 58 | 36 | | 41 | |
| 1JS73-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 103 | 52 | 36 | | 41 | |
| 1JS73-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 114 | 64 | 41 | | 50 | |
| 1JS73-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 117 | 54 | 46 | | 50 | |
| 1JS73-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 120 | 57 | 50 | | 60 | |

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

J7 Female ORFS – Swivel 45° Elbow

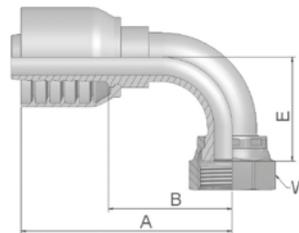
ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|----------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1J773-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 105 | 57 | 21 | 36 |
| 1J773-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 107 | 59 | 24 | 41 |
| 1J773-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 119 | 69 | 24 | 41 |
| 1J773-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 131 | 80 | 26 | 50 |
| 1J773-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 147 | 83 | 25 | 7/8 |
| 1J773-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 154 | 90 | 30 | 50 |
| 1J773-24-20-SM | 31 | 1 1/4 | -20 | 31.8 | 2x12 | 164 | 100 | 40 | 60 |

J9 Female ORFS – Swivel 90° Elbow – Short Drop

ISO 12151-1 – SWES
SAE J516 – ORFS 90°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W | |
|----------------|-----------|-------|------|------|---------------|---------|---------|---------|-----|------|
| | DN | Inch | Size | mm | | | | | mm | Inch |
| 1J973-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 101 | 53 | 48 | 36 | |
| 1J973-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 113 | 65 | 56 | 41 | |
| 1J973-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 120 | 70 | 56 | 41 | |
| 1J973-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 127 | 77 | 64 | 50 | |
| 1J973-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1-11/16x12 | 148 | 84 | 64 | 7/8 | |
| 1J973-24-24-SM | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 166 | 103 | 82 | 60 | |

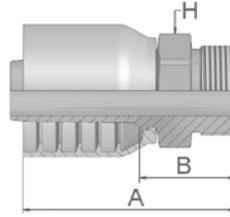
Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

JM

ORFS Male

ISO 12151-1-S – SAE J516



| Part Number |  Hose I.D. | | | |  Thread UNF | A mm | B mm |  H mm |
|----------------|------------------------------------------------------------------------------------------------|-------|------|------|----------------------------------------------------------------------------------------------------|---------|---------|------------------------------------------------------------------------------------------------|
| | DN | Inch | Size | mm | | | | |
| 1JM73-12-12-SM | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 86 | 38 | 32 |
| 1JM73-16-12-SM | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 87 | 39 | 41 |
| 1JM73-16-16-SM | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 93 | 42 | 41 |
| 1JM73-20-16-SM | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 89 | 39 | 46 |
| 1JM73-20-20-SM | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 106 | 42 | 46 |

JM fittings are supplied without O-ring.
O-rings see section Eb. Special O-rings are available on request.

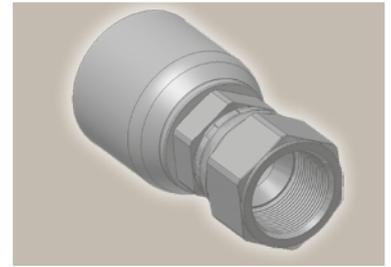
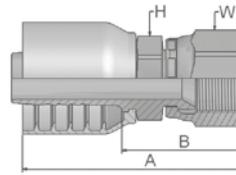
Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

XU

Female Metric – Swivel Straight (30° Flare)

JIS B8363



| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | H mm | W mm |
|-------------|-----------|------|------|------|------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1XU73-12-12 | 19 | 3/4 | -12 | 19.1 | M30x1.5 | 76 | 28 | 32 | 36 |
| 1XU73-16-16 | 25 | 1 | -16 | 25.4 | M33x1.5 | 85 | 35 | 36 | 41 |

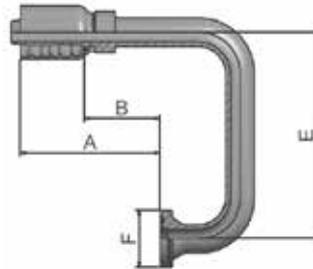
Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

Large range of special hose fittings for the MRO market

The demand for special hose fittings is part of our everyday business. In order to meet this demand with the authority expected, the Polymer Hose Division Europe has extended its standard offer with special hose fittings such as an extra drop length, etc.

The following is an overview of our special hose fitting selection:



Further special hose fittings are available on request.

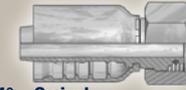
| Part Number | Description |  |  | A mm | B mm | E mm | F mm |
|-------------------|---------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------|---------|---------|---------|
| | | Hose I.D. Size | Flange Inch | | | | |
| 11973-12-12-SL100 | SAE 5000 psi 90° elbow - drop length 100 mm | -12 | 3/4 | 109 | 61 | 100 | 38 |
| 11973-12-12-SL150 | SAE 5000 psi 90° elbow - drop length 150 mm | -12 | 3/4 | 109 | 61 | 150 | 38 |
| 11973-12-12-SL180 | SAE 5000 psi 90° elbow - drop length 180 mm | -12 | 3/4 | 109 | 61 | 180 | 38 |
| 11973-16-16-SL100 | SAE 5000 psi 90° elbow - drop length 100 mm | -16 | 1 | 118 | 67 | 100 | 45 |
| 11973-16-16-SL150 | SAE 5000 psi 90° elbow - drop length 150 mm | -16 | 1 | 118 | 67 | 150 | 45 |
| 11973-16-16-SL90 | SAE 5000 psi 90° elbow - drop length 90 mm | -16 | 1 | 118 | 67 | 90 | 45 |
| 14N73-20-20-SL150 | SAE 5000 psi 90° elbow - drop length 150 mm | -20 | 1 1/4 | 155 | 91 | 150 | 51 |
| 16N73-12-12-SL100 | SAE 6000 psi 90° elbow - drop length 100 mm | -12 | 3/4 | 101 | 53 | 100 | 41 |
| 16N73-12-12-SL140 | SAE 6000 psi 90° elbow - drop length 140 mm | -12 | 3/4 | 101 | 53 | 140 | 41 |
| 16N73-12-12-SL150 | SAE 6000 psi 90° elbow - drop length 150 mm | -12 | 3/4 | 101 | 53 | 150 | 41 |
| 16N73-12-12-SL85 | SAE 6000 psi 90° elbow - drop length 85 mm | -12 | 3/4 | 101 | 53 | 85 | 41 |
| 16N73-16-12-SL100 | SAE 6000 psi 90° elbow - drop length 100 mm | -12 | 1 | 111 | 63 | 100 | 48 |
| 16N73-16-12-SL116 | SAE 6000 psi 90° elbow - drop length 116 mm | -12 | 1 | 111 | 63 | 116 | 48 |
| 16N73-16-12-SL120 | SAE 6000 psi 90° elbow - drop length 120 mm | -12 | 1 | 111 | 63 | 120 | 48 |
| 16N73-16-16-SL100 | SAE 6000 psi 90° elbow - drop length 100 mm | -16 | 1 | 118 | 67 | 100 | 48 |
| 16N73-16-16-SL110 | SAE 6000 psi 90° elbow - drop length 110 mm | -16 | 1 | 122 | 71 | 110 | 48 |
| 16N73-16-16-SL116 | SAE 6000 psi 90° elbow - drop length 116 mm | -16 | 1 | 128 | 77 | 116 | 48 |
| 16N73-16-16-SL125 | SAE 6000 psi 90° elbow - drop length 125 mm | -16 | 1 | 118 | 67 | 125 | 48 |
| 16N73-16-16-SL140 | SAE 6000 psi 90° elbow - drop length 140 mm | -16 | 1 | 122 | 71 | 140 | 48 |
| 16N73-16-16-SL175 | SAE 6000 psi 90° elbow - drop length 175 mm | -16 | 1 | 122 | 71 | 175 | 48 |
| 16N73-16-16SL150 | SAE 6000 psi 90° elbow - drop length 150 mm | -16 | 1 | 117 | 67 | 150 | 48 |
| 16N73-20-16-SL120 | SAE 6000 psi 90° elbow - drop length 120 mm | -16 | 1 1/4 | 122 | 71 | 120 | 54 |
| 16N73-20-16-SL160 | SAE 6000 psi 90° elbow - drop length 160 mm | -16 | 1 1/4 | 122 | 71 | 160 | 54 |
| 16N73-20-20-SL100 | SAE 6000 psi 90° elbow - drop length 100 mm | -20 | 1 1/4 | 155 | 91 | 100 | 54 |
| 16N73-20-20-SL180 | SAE 6000 psi 90° elbow - drop length 180 mm | -20 | 1 1/4 | 155 | 91 | 180 | 54 |
| 16N73-20-20SL145 | SAE 6000 psi 90° elbow - drop length 145 mm | -20 | 1 1/4 | 155 | 91 | 145 | 54 |
| 16N73-24-24-SL90 | SAE 6000 psi 90° elbow - drop length 90 mm | -24 | 1 1/2 | 166 | 103 | 90 | 64 |

Approved **fitting series** for hose types:

73 731 731TC SX35 SX35LT SX35TC SX42 SX42LT SX42TC

DIN – Metric

Page Dd-1 – Dd-4

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>CA</p> <p>Dd-1</p>  <p>Female Metric 24° Light Series with O-Ring Swivel – Straight ISO 12151-2-SWS-L – DKOL</p> | <p>CE</p> <p>Dd-1</p>  <p>Female Metric 24° Light Series with O-Ring Swivel – 45° Elbow ISO 12151-2-SWE-L – DKOL 45°</p> | <p>CF</p> <p>Dd-2</p>  <p>Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow ISO 12151-2-SWE-L – DKOL 90°</p> | <p>D0</p> <p>Dd-2</p>  <p>Male Metric 24° Light Series – Rigid Straight ISO 12151-2-S-L – CEL</p> |
| <p>C9</p> <p>Dd-3</p>  <p>Female Metric 24° – Swivel Heavy Series with O-Ring Straight ISO 12151-2-SWS-S – DKOS</p> | <p>OC</p> <p>Dd-3</p>  <p>Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow ISO 12151-2-SWE-S – DKOS 45°</p> | <p>1C</p> <p>Dd-4</p>  <p>Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow ISO 12151-2-SWE-S – DKOS 90°</p> | <p>D2</p> <p>Dd-4</p>  <p>Male Metric 24° – Rigid Heavy Series – Straight ISO 12151-2-S-S – CES</p> |

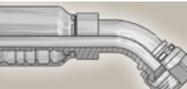
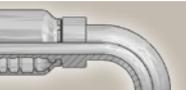
BSP

Page Dd-5 – Dd-6

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>EA</p> <p>Dd-5</p>  <p>BSP Swivel Female with O-Ring (60° Cone) BS 5200 – ISO 12151-6 – DKOR</p> | <p>EB</p> <p>Dd-5</p>  <p>BSP Swivel Female with O-Ring 45° Elbow (60° Cone) BS 5200 – ISO 12151-6 – DKOR 45°</p> | <p>EC</p> <p>Dd-6</p>  <p>BSP Swivel Female with O-Ring 90° Elbow (60° Cone) BS 5200 – ISO 12151-6 – DKOR 90°</p> | <p>D9</p> <p>Dd-6</p>  <p>Male BSP Parallel Pipe Rigid – Straight (60° Cone) BS5200 – AGR</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SAE

Page Dd-7 – Dd-9

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>01</p> <p>Dd-7</p>  <p>Male NPTF Pipe Rigid – Straight SAE J476A / J516 – AGN</p> | <p>03</p> <p>Dd-7</p>  <p>Male JIC 37° – Rigid Straight ISO12151-5-S – AGJ</p> | <p>06</p> <p>Dd-8</p>  <p>Female JIC 37° – Swivel Straight ISO12151-5-SWS – DKJ</p> | <p>37</p> <p>Dd-9</p>  <p>Female JIC 37° – Swivel 45° Elbow ISO 12151-5-SWE 45° – DKJ 45°</p> |
| <p>39</p> <p>Dd-9</p>  <p>Female JIC 37° – Swivel 90° Elbow ISO 12151-5-SWES – DKJ 90°</p> | | | |

Flange

Page Dd-10 – Dd-20

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>15/4A Dd-10 ISO 6162-1-Flange Straight ISO 12151-3-S-L – SFL (35.0 MPa/ 5000 psi)</p>  | <p>17/4F Dd-11 ISO 6162-1-Flange 45° Elbow ISO 12151-3 – E45S – L – SFL 45° (35.0 MPa/ 5000 psi)</p>  | <p>19/4N Dd-12 ISO 6162-1-Flange 90° Elbow ISO 12151-3-E-L – SFL 90° (35.0 MPa/ 5000 psi)</p>  | <p>6A Dd-13 ISO 6162-2-Flange Straight ISO 12151-3-S-S – SFS (42.0 MPa/ 6000 psi)</p>  |
| <p>6E Dd-14 ISO 6162-2-Flange 30° Elbow SFS 30° (42.0 MPa/ 6000 psi)</p>  | <p>6F Dd-16 ISO 6162-2-Flange 45° Elbow – Heavy Series ISO 12151-3 – E45-S – SFS 45° (42.0 MPa/ 6000 psi)</p>  | <p>6N Dd-15 ISO 6162-2-Flange 90° Elbow ISO 12151-3 – E-S – SFS 90° (42.0 MPa/ 6000 psi)</p>  | <p>X5 Dd-16 Flange – Straight Full flange system for ISO 6162-1 or ISO 6162-2</p>  |
| <p>X7 Dd-16 Flange – 45° Elbow Full flange system for ISO 6162-1 or ISO 6162-2</p>  | <p>X9 Dd-17 Flange – 90° Elbow Full flange system for ISO 6162-1 or ISO 6162-2</p>  | <p>XA Dd-17 Caterpillar® Flange Straight</p>  | <p>XF Dd-18 Caterpillar® Flange 45° Elbow</p>  |
| <p>XG Dd-18 Caterpillar® Flange 60° Elbow</p>  | <p>XN Dd-19 Caterpillar® Flange 90° Elbow</p>  | <p>K5 Dd-19 Komatsu® Flange Straight</p>  | <p>K7 Dd-20 Komatsu® Flange 45° Elbow</p>  |
| <p>K9 Dd-20 Komatsu® Flange 90° Elbow</p>  | | | |

ORFS

Page Dd-21 – Dd-23

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JC Dd-21 Female ORFS Swivel – Straight Short ISO 12151-1 – SWSA SAE J516 – ORFS</p>  | <p>J7 Dd-21 Female ORFS – Swivel 45° Elbow ISO 12151-1 – SWE 45° SAE J516 – ORFS 45°</p>  | <p>J9 Dd-22 Female ORFS – Swivel 90° Elbow – Short Drop ISO 12151-1 – SWES SAE J516 – ORFS 90°</p>  | <p>J1 Dd-22 Female ORFS – Swivel 90° Elbow – Long Drop ISO 12151-1 – SWEL SAE J516 – ORFS 90° L</p>  |
| <p>JM Dd-23 ORFS Male ISO 12151-1-S – SAE J516</p>  | | | |

French Standard

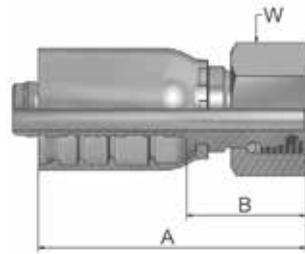
Page Dd-24

FG
Dd-24
Male French Gas Series
Rigid – Straight (24° Cone)



A large range of special hose fittings
for the MRO market can be found
on page Dd-25

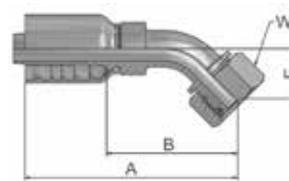
CA **Female Metric 24°
Light Series with O-Ring
Swivel – Straight**
ISO 12151-2-SWS-L – DKOL



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1CA77-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 63 | 28 | 27 |
| 1CA77-18-10 | 16 | 5/8 | -10 | 15.9 | M26x1.5 | 18 | 66 | 27 | 32 |
| 1CA77-18-12 | 19 | 3/4 | -12 | 19.1 | M26x1.5 | 18 | 74 | 28 | 32 |
| 1CA77-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 73 | 27 | 36 |
| 1CA77-22-16 | 25 | 1 | -16 | 25.4 | M30x2 | 22 | 88 | 33 | 36 |
| 1CA77-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 89 | 35 | 41 |
| 1CA77-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 100 | 37 | 50 |
| 1CA77-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 106 | 39 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

CE **Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow**
ISO 12151-2-SWE -L – DKOL 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 1CE77-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 84 | 49 | 24 | 27 |
| 1CE77-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 120 | 74 | 29 | 36 |
| 1CE77-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 142 | 88 | 33 | 41 |
| 1CE77-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 162 | 98 | 37 | 50 |
| 1CE77-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 201 | 134 | 49 | 60 |

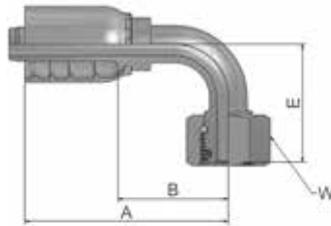
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|----------|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 ... |
| | SX42LT | SX42TC | | | | | | | | | | | | |

CF **Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow**

ISO 12151-2-SWE-L – DKOL 90°

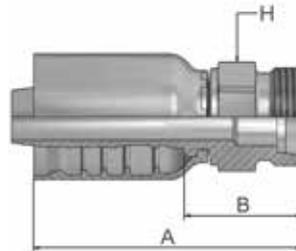


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| 1CF77-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 76 | 41 | 45 | 27 |
| 1CF77-18-10 | 16 | 5/8 | -10 | 15.9 | M26x1.5 | 18 | 92 | 53 | 49 | 32 |
| 1CF77-18-12 | 19 | 3/4 | -12 | 19.1 | M26x1.5 | 18 | 108 | 62 | 56 | 32 |
| 1CF77-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 108 | 62 | 59 | 36 |
| 1CF77-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 131 | 77 | 69 | 41 |
| 1CF77-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 151 | 87 | 79 | 50 |
| 1CF77-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 179 | 112 | 101 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

DO **Male Metric 24°
Light Series – Rigid
Straight**

ISO 12151-2-S-L – CEL



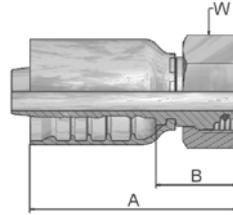
| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | H mm |
|-------------|-----------|------|------|------|------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1D077-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 61 | 27 | 22 |
| 1D077-18-10 | 16 | 5/8 | -10 | 15.9 | M26x1.5 | 68 | 30 | 27 |
| 1D077-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 82 | 36 | 30 |
| 1D077-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 92 | 38 | 36 |

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | SX42TC | | | | | | | | | | | | | |

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS

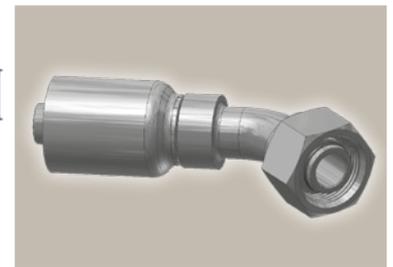
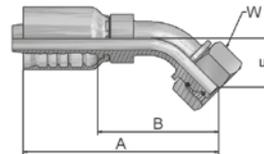


| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | W mm |
|------------------|-----------|-------|------|------|---------------|------|------|------|
| | DN | Inch | Size | mm | | | | |
| 1C977-12-8 | 12 | 1/2 | -8 | 12.7 | M20x1.5 | 61 | 26 | 24 |
| 1C977-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 60 | 25 | 30 |
| 1C977-16-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 67 | 28 | 30 |
| 1C977-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 68 | 28 | 36 |
| 1C977-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 76 | 30 | 36 |
| 1C977-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 76.6 | 30.6 | 46 |
| 1C977-25-12-SW41 | 19 | 3/4 | -12 | 19.1 | M36x2 | 77 | 31 | 41 |
| 1C977-30-12 | 19 | 3/4 | -12 | 19.1 | M42x2 | 83 | 37 | 50 |
| 1C977-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 86 | 35 | 46 |
| 1C977-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 89 | 35 | 50 |
| 1C977-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 102 | 39 | 50 |
| 1C977-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 100 | 36 | 60 |
| 1C977-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 106 | 39 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

OC Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE -S – DKOS 45°



| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | E mm | W mm |
|------------------|-----------|-------|------|------|---------------|------|------|------|------|
| | DN | Inch | Size | mm | | | | | |
| 10C77-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 83 | 49 | 24 | 30 |
| 10C77-12-10 | 16 | 5/8 | -10 | 15.9 | M20x1.5 | 105 | 66 | 26 | 24 |
| 10C77-16-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 111 | 64 | 24 | 30 |
| 10C77-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 107 | 68 | 28 | 36 |
| 10C77-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 120 | 74 | 30 | 36 |
| 10C77-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 119 | 73 | 29 | 46 |
| 10C77-25-12-SW41 | 19 | 3/4 | -12 | 19.1 | M36x2 | 119 | 73 | 29 | 41 |
| 10C77-30-12 | 19 | 3/4 | -12 | 19.1 | M42x2 | 121 | 75 | 30 | 50 |
| 10C77-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 142 | 88 | 33 | 46 |
| 10C77-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 142 | 88 | 33 | 50 |
| 10C77-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 155 | 91 | 34 | 50 |
| 10C77-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 161 | 97 | 37 | 60 |
| 10C77-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 195 | 128 | 49 | 60 |

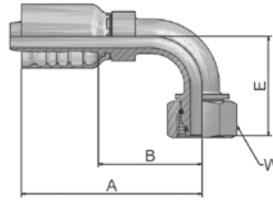
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|----------|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 ... |
| | SX42LT | | SX42TC | | | | | | | | | | | |

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

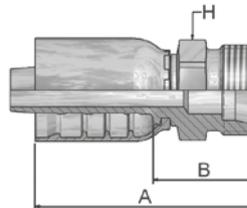


| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | E mm | W mm |
|------------------|-----------|-------|------|------|---------------|------|------|------|------|
| | DN | Inch | Size | mm | | | | | |
| 11C77-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 77 | 42 | 45 | 30 |
| 11C77-16-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 92 | 53 | 45 | 30 |
| 11C77-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 92 | 53 | 53 | 36 |
| 11C77-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 108 | 62 | 60 | 36 |
| 11C77-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 108 | 62 | 58.5 | 46 |
| 11C77-25-12-SW41 | 19 | 3/4 | -12 | 19.1 | M36x2 | 108 | 62 | 59 | 41 |
| 11C77-30-12 | 19 | 3/4 | -12 | 19.1 | M42x2 | 108 | 62 | 61 | 50 |
| 11C77-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 131 | 77 | 69 | 46 |
| 11C77-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 131 | 77 | 69 | 50 |
| 11C77-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 145 | 82 | 73 | 50 |
| 11C77-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 151 | 87 | 78 | 60 |
| 11C77-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 179 | 112 | 101 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C. O-rings see section Eb. Special O-rings are available on request.

D2 Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES

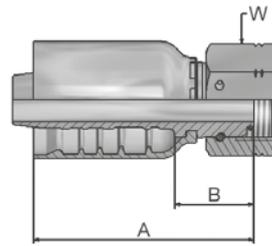


| Part Number | Hose I.D. | | | | Thread metric | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|------|------|------|
| | DN | Inch | Size | mm | | | | |
| 1D277-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 64 | 30 | 24 |
| 1D277-16-10 | 16 | 5/8 | -10 | 15.9 | M24x1.5 | 69 | 30 | 24 |
| 1D277-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 72 | 34 | 30 |
| 1D277-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 84 | 38 | 30 |
| 1D277-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 86 | 40 | 36 |
| 1D277-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 96 | 42 | 36 |
| 1D277-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 99 | 45 | 46 |
| 1D277-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 110 | 47 | 46 |
| 1D277-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 114 | 51 | 55 |
| 1D277-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 120 | 53 | 55 |

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|---------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT SX42TC | | | | | | | | | | | | | | |

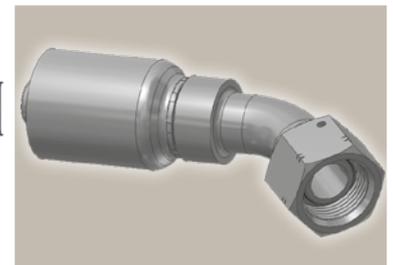
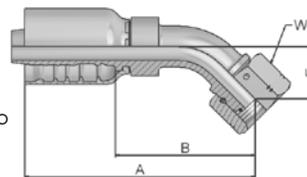
EA **BSP Swivel Female
with O-Ring (60° Cone)**
BS 5200 – ISO 12151-6 – DKOR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1EA77-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 58 | 23 | 27 |
| 1EA77-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 62 | 23 | 30 |
| 1EA77-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4x14 | 63 | 24 | 32 |
| 1EA77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 72 | 26 | 32 |
| 1EA77-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 82 | 36 | 41 |
| 1EA77-12-16 | 25 | 1 | -16 | 25.4 | 3/4x14 | 83 | 29 | 32 |
| 1EA77-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 90 | 36 | 41 |
| 1EA77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 96 | 33 | 50 |
| 1EA77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 103 | 36 | 55 |
| 1EA77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 118 | 40 | 70 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

EB **BSP Swivel Female
with O-Ring
45° Elbow (60° Cone)**
BS 5200 – ISO 12151-6 – DKOR 45°



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1EB77-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 80 | 45 | 20 | 27 |
| 1EB77-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 101 | 62 | 22 | 30 |
| 1EB77-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4x14 | 103 | 64 | 24 | 32 |
| 1EB77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 117 | 71 | 27 | 32 |
| 1EB77-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 120 | 74 | 29 | 41 |
| 1EB77-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 144 | 90 | 35 | 41 |
| 1EB77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 159 | 95 | 35 | 50 |
| 1EB77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 196 | 129 | 50 | 55 |
| 1EB77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 255 | 178 | 86 | 70 |

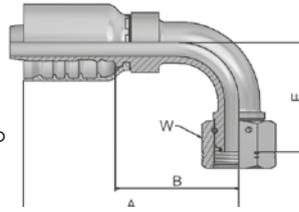
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

EC BSP Swivel Female with O-Ring 90° Elbow (60° Cone)

BS 5200 – ISO 12151-6 – DKOR 90°

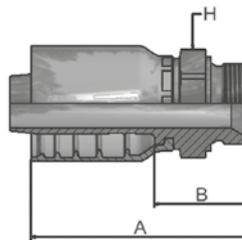


| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1EC77-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 76 | 41 | 40 | 27 |
| 1EC77-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 92 | 53 | 44 | 30 |
| 1EC77-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4x14 | 92 | 53 | 47 | 32 |
| 1EC77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 108 | 62 | 55 | 32 |
| 1EC77-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 108 | 62 | 59 | 41 |
| 1EC77-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 131 | 77 | 72 | 41 |
| 1EC77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 151 | 87 | 75 | 50 |
| 1EC77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 179 | 112 | 103 | 55 |
| 1EC77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 236 | 159 | 150 | 70 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1D977-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 68 | 33 | 27 |
| 1D977-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 74 | 36 | 30 |
| 1D977-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 87 | 41 | 32 |
| 1D977-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 91 | 45 | 41 |
| 1D977-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 91 | 45 | 41 |
| 1D977-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4x11 | 103 | 49 | 50 |
| 1D977-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 113 | 50 | 50 |
| 1D977-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 124 | 57 | 55 |

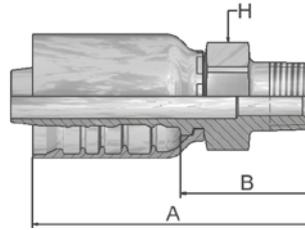
Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|-----------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT SX42TC | | | | | | | | | | | | | | |

01

Male NPTF Pipe Rigid – Straight

SAE J476A/ J516 – AGN



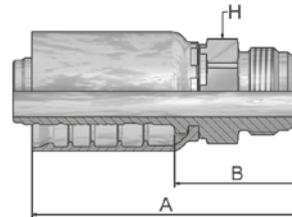
| Part Number | Hose I.D. | | | | Thread NPTF | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 10177-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2-14 | 69 | 35 | 22 |
| 10177-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2-14 | 87 | 41 | 30 |
| 10177-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4-14 | 87 | 41 | 30 |
| 10177-16-16 | 25 | 1 | -16 | 25.4 | 1-11 1/2 | 103 | 49 | 36 |
| 10177-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4-11 1/2 | 116 | 53 | 46 |
| 10177-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2-11 1/2 | 124 | 57 | 50 |
| 10177-32-32 | 51 | 2 | -32 | 50.8 | 2-11 1/2 | 143 | 66 | 65 |

All sizes of 10177 fittings are rated at 35,0 MPa working pressure.

03

Male JIC 37° – Rigid Straight

ISO12151-5-S – AGJ



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 10377-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 66.45 | 32 | 22 |
| 10377-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 69 | 34 | 24 |
| 10377-12-8 | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 77 | 42 | 27 |
| 10377-10-10 | 16 | 5/8 | -10 | 15.9 | 7/8x14 | 76 | 38 | 24 |
| 10377-12-10 | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 82 | 43 | 30 |
| 10377-10-12 | 19 | 3/4 | -12 | 19.1 | 7/8x14 | 87 | 41 | 30 |
| 10377-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 89 | 43 | 30 |
| 10377-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 92 | 46 | 36 |
| 10377-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 101.4 | 47 | 36 |
| 10377-20-16 | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 110 | 56 | 50 |
| 10377-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 118 | 55 | 50 |
| 10377-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 148 | 71 | 65 |

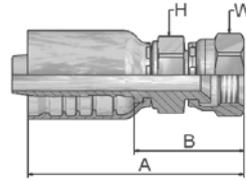
All sizes of 10377 fittings are rated at 35,0 MPa working pressure.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

06 Female JIC 37° – Swivel Straight

ISO12151-5-SWS – DKJ



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 10677-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 71 | 37 | 22 | 22 |
| 10677-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 74 | 39 | 22 | 27 |
| 10677-12-8 | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 80 | 46 | 30 | 32 |
| 10677-10-10 | 16 | 5/8 | -10 | 15.9 | 7/8x14 | 81 | 42 | 24 | 27 |
| 10677-12-10 | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 84 | 45 | 30 | 32 |
| 10677-10-12 | 19 | 3/4 | -12 | 19.1 | 7/8x14 | 92 | 46 | 30 | 27 |
| 10677-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 94 | 48 | 30 | 32 |
| 10677-14-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 99 | 53 | 36 | 36 |
| 10677-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 99 | 53 | 36 | 41 |
| 10677-12-16 | 25 | 1 | -16 | 25.4 | 1 1/16x12 | 102 | 48 | 36 | 32 |
| 10677-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 106 | 52 | 36 | 41 |
| 10677-20-16 | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 109 | 55 | 41 | 50 |
| 10677-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/16x12 | 120 | 57 | 46 | 41 |
| 10677-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8 12 | 124 | 60 | 46 | 50 |
| 10677-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 108 | 44 | 50 | 60 |
| 10677-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 136 | 69 | 50 | 60 |
| 10677-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 160 | 83 | 65 | 75 |

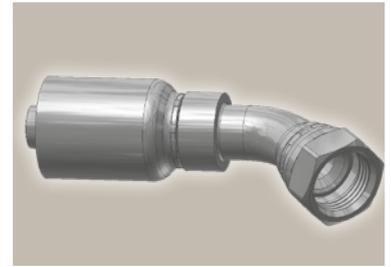
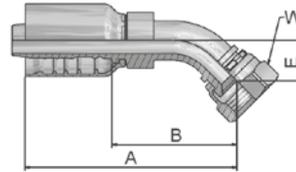
All sizes of 10677 fittings are rated at 35,0 MPa working pressure.

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | SX42TC | | | | | | | | | | | | | |

37 Female JIC 37° – Swivel 45° Elbow

ISO 12151-5-SWE 45° – DKJ 45°

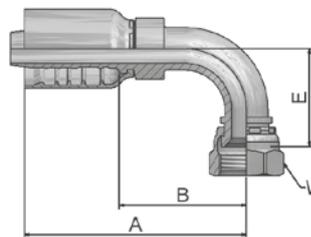


| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 13777-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 73 | 38 | 15 | 22 |
| 13777-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 78 | 43 | 16 | 27 |
| 13777-12-8 | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 79 | 44 | 21 | 32 |
| 13777-10-10 | 16 | 5/8 | -10 | 15.9 | 7/8x14 | 93 | 54 | 16 | 27 |
| 13777-12-10 | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 100 | 61 | 21 | 32 |
| 13777-10-12 | 19 | 3/4 | -12 | 19.1 | 7/8x14 | 102 | 56 | 16 | 27 |
| 13777-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 111 | 65 | 21 | 32 |
| 13777-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 114 | 68 | 24 | 41 |
| 13777-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 133 | 79 | 24 | 41 |
| 13777-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 153 | 90 | 32 | 50 |
| 13777-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 201 | 134 | 58 | 60 |
| 13777-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 258 | 181 | 72 | 75 |

All sizes of 13777 fittings are rated at 35,0 MPa working pressure.

39 Female JIC 37° – Swivel 90° Elbow

ISO 12151-5-SWES – DKJ 90°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 13977-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 71 | 36 | 29 | 22 |
| 13977-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 71 | 36 | 32 | 27 |
| 13977-12-8 | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 76 | 41 | 48 | 32 |
| 13977-10-10 | 16 | 5/8 | -10 | 15.9 | 7/8x14 | 88 | 50 | 33 | 27 |
| 13977-12-10 | 16 | 5/8 | -10 | 15.9 | 1 1/16x12 | 92 | 53 | 48 | 32 |
| 13977-10-12 | 19 | 3/4 | -12 | 19.1 | 7/8x14 | 97 | 51 | 33 | 27 |
| 13977-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 108 | 62 | 48 | 32 |
| 13977-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 108 | 62 | 56 | 41 |
| 13977-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 131 | 77 | 74 | 41 |
| 13977-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 148 | 84 | 78 | 50 |
| 13977-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 175 | 108 | 102 | 60 |
| 13977-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 236 | 159 | 152 | 75 |

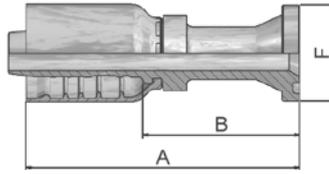
All sizes of 13977 fittings are rated at 35,0 MPa working pressure.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

15/4A ISO 6162-1-Flange Straight

ISO 12151-3-S-L – SFL
(35.0 MPa/ 5000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 11577-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 90 | 55 | 30 |
| 11577-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 67 | 33 | 38 |
| 11577-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8 | 100 | 60 | 34 |
| 11577-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 75 | 36 | 38 |
| 11577-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 107 | 62 | 38 |
| 11577-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 88 | 42 | 45 |
| 11577-16-16 | 25 | 1 | -16 | 25.4 | 1 | 119 | 65 | 45 |
| 14A77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 90 | 36 | 51 |
| 11577-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 130 | 66 | 45 |
| 14A77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 138 | 74 | 51 |
| 14A77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 100 | 37 | 60 |
| 14A77-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 146 | 79 | 51 |
| 14A77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 140 | 73 | 60 |
| 14A77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 117 | 50 | 71 |
| 14A77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 163 | 86 | 71 |

SAE flange halves see in section Eb.

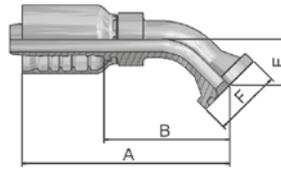
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | SX42TC | | | | | | | | | | | | | |

17/4F ISO 6162-1-Flange 45° Elbow

ISO 12151-3 – E45S – L – SFL 45°
(35.0 MPa/ 5000 psi)



| Part Number |  Hose I.D. | | | |  Flange | A mm | B mm | E mm | F mm |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 11777-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 79 | 45 | 20 | 30 |
| 11777-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 81 | 47 | 22 | 38 |
| 11777-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8 | 103 | 64 | 24 | 34 |
| 11777-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 116 | 70 | 26 | 38 |
| 11777-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 116 | 70 | 26 | 45 |
| 11777-16-16 | 25 | 1 | -16 | 25.4 | 1 | 130 | 76 | 32 | 45 |
| 14F77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 130 | 76 | 32 | 51 |
| 14F77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 167 | 104 | 38 | 51 |
| 14F77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 167 | 104 | 38 | 60 |
| 14F77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 192 | 125 | 44 | 60 |
| 14F77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 192 | 125 | 44 | 71 |
| 14F77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 211 | 134 | 56 | 71 |

SAE flange halves see in section Eb.

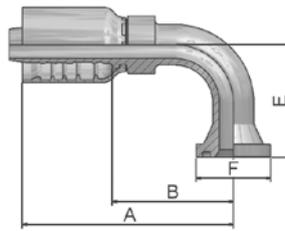
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|----------|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 ... |
| | SX42LT | SX42TC | | | | | | | | | | | | |

19/4N ISO 6162-1-Flange 90° Elbow

ISO 12151-3-E-L – SFL 90°
(35.0 MPa/ 5000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 11977-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 76 | 41 | 41 | 30 |
| 11977-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 80 | 45 | 42 | 38 |
| 11977-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8 | 92 | 53 | 53 | 34 |
| 11977-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 108 | 62 | 58 | 38 |
| 11977-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 108 | 62 | 58 | 45 |
| 11977-16-16 | 25 | 1 | -16 | 25.4 | 1 | 120 | 66 | 70 | 45 |
| 14N77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 120 | 66 | 70 | 51 |
| 11977-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 156 | 92 | 90 | 45 |
| 14N77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 156 | 92 | 90 | 51 |
| 14N77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 156 | 92 | 90 | 60 |
| 14N77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 180 | 113 | 104 | 60 |
| 14N77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 180 | 113 | 104 | 71 |
| 14N77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 206 | 129 | 138 | 71 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

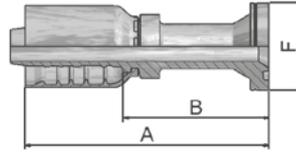
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | SX42TC | | | | | | | | | | | | | |

6A ISO 6162-2-Flange Straight

ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 16A77-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 89 | 55 | 32 |
| 16A77-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 69.4 | 34.75 | 41 |
| 16A77-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 75 | 36 | 41 |
| 16A77-16-10 | 16 | 5/8 | -10 | 15.9 | 1 | 80 | 41 | 48 |
| 16A77-8-12 | 19 | 3/4 | -12 | 19.1 | 1/2 | 106 | 60 | 32 |
| 16A77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 114.2 | 68.2 | 41 |
| 16A77-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 88.2 | 42 | 48 |
| 16A77-20-12 | 19 | 3/4 | -12 | 19.1 | 1 1/4 | 93 | 47 | 54 |
| 16A77-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 126 | 72 | 41 |
| 16A77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 113 | 59 | 48 |
| 16A77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 103 | 49 | 54 |
| 16A77-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 145 | 82 | 48 |
| 16A77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 146 | 82 | 54 |
| 16A77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 118 | 55 | 64 |
| 16A77-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 154 | 87 | 54 |
| 16A77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 162 | 96 | 64 |
| 16A77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 133 | 66 | 79 |
| 16A77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 183 | 105 | 79 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

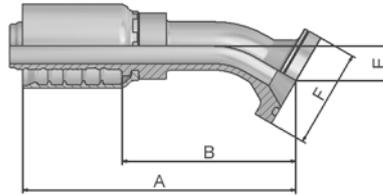
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

6E ISO 6162-2 Flange 30° Elbow

SFS 30°
(42.0 MPa/ 6000 psi)



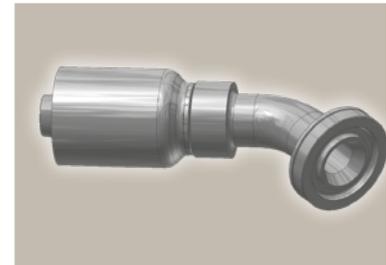
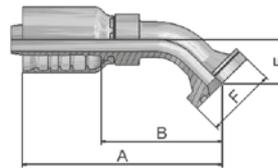
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 16E77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 121 | 75 | 16 | 41 |
| 16E77-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 122 | 76 | 16 | 48 |
| 16E77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 136 | 82 | 19 | 48 |
| 16E77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 149 | 95 | 19 | 54 |
| 16E77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 175 | 111 | 24 | 54 |
| 16E77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 190 | 123 | 30 | 64 |
| 16E77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 223 | 145 | 32 | 79 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

6F ISO 6162-2-Flange 45° Elbow – Heavy Series

ISO 12151-3 – E45-S – SFS 45°
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 16F77-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 79 | 44 | 19 | 32 |
| 16F77-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 85.8 | 51 | 26 | 41 |
| 16F77-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 105 | 66 | 26 | 32 |
| 16F77-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 104 | 66 | 26 | 41 |
| 16F77-16-10 | 16 | 5/8 | -10 | 15.9 | 1 | 105 | 66 | 26 | 48 |
| 16F77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 116.2 | 70 | 26 | 41 |
| 16F77-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 116 | 70 | 26 | 48 |
| 16F77-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 132 | 78 | 32 | 41 |
| 16F77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 141 | 87 | 32 | 48 |
| 16F77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 142 | 88 | 32 | 54 |
| 16F77-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 154 | 90 | 38 | 48 |
| 16F77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 167 | 104 | 38 | 54 |
| 16F77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 173 | 110 | 44 | 64 |
| 16F77-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 184 | 117 | 44 | 54 |
| 16F77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 192 | 125 | 44 | 64 |
| 16F77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 192 | 125 | 44 | 79 |
| 16F77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 218 | 141 | 56 | 79 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

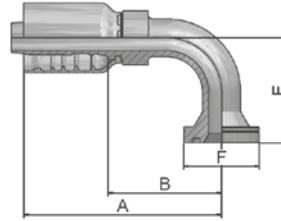
Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | |
|-------------------------------|------------|--------------|--------------|------------|--------------|--------------|------------|--------------|--------------|------------|--------------|--------------|--------------|-------------------|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 ... |
| SX42LT SX42TC | | | | | | | | | | | | | | |

6N

ISO 6162-2-Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
(42.0 MPa/ 6000 psi)



| Part Number |  Hose I.D. | | | |  Flange | A | B | E | F |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------|-------|-----|-----|----|
| | DN | Inch | Size | mm | | | | | |
| 16N77-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 76 | 41 | 41 | 32 |
| 16N77-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 81.05 | 47 | 45 | 41 |
| 16N77-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 92 | 53 | 54 | 32 |
| 16N77-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 92 | 53 | 54 | 41 |
| 16N77-16-10 | 16 | 5/8 | -10 | 15.9 | 1 | 92 | 53 | 54 | 48 |
| 16N77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 108.2 | 62 | 58 | 41 |
| 16N77-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 108 | 62 | 58 | 48 |
| 16N77-20-12 | 19 | 3/4 | -12 | 19.1 | 1 1/4 | 108 | 62 | 63 | 54 |
| 16N77-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 115 | 61 | 70 | 41 |
| 16N77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 120 | 66 | 70 | 48 |
| 16N77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 135 | 81 | 70 | 54 |
| 16N77-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 138 | 75 | 90 | 48 |
| 16N77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 156 | 92 | 90 | 54 |
| 16N77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 151 | 87 | 90 | 64 |
| 16N77-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 156 | 89 | 104 | 54 |
| 16N77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 180 | 113 | 104 | 64 |
| 16N77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 175 | 108 | 104 | 79 |
| 16N77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 223 | 138 | 138 | 79 |

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

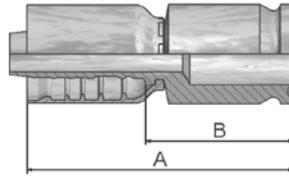
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | SX42TC | | | | | | | | | | | | | |

X5 Flange – Straight

Full flange system for
ISO 6162-1 or ISO 6162-2

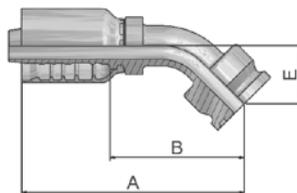


| Part Number |  Hose I.D. | | | |  Flange | A mm | B mm |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------|---------|---------|
| | DN | Inch | Size | mm | Inch | | |
| 1X577-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 103 | 57 |
| 1X577-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 103 | 57 |
| 1X577-16-16 | 25 | 1 | -16 | 25.4 | 1 | 113 | 59 |
| 1X577-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 113 | 59 |
| 1X577-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 124 | 57 |
| 1X577-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 129 | 62 |
| 1X577-32-32 | 51 | 2 | -32 | 50.8 | 2 | 154 | 77 |

Full flange system see Eb-4.

X7 Flange – 45° Elbow

Full flange system for
ISO 6162-1 or ISO 6162-2



| Part Number |  Hose I.D. | | | |  Flange | A mm | B mm | E mm |
|-------------|--------------------------------------------------------------------------------------------------|-------|------|------|-----------------------------------------------------------------------------------------------|---------|---------|---------|
| | DN | Inch | Size | mm | Inch | | | |
| 1X777-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 119 | 73 | 29 |
| 1X777-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 118 | 72 | 29 |
| 1X777-16-16 | 25 | 1 | -16 | 25.4 | 1 | 141 | 87 | 32 |
| 1X777-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 147 | 93 | 38 |
| 1X777-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 146 | 82 | 38 |
| 1X777-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 159 | 96 | 38 |
| 1X777-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 165 | 102 | 44 |
| 1X777-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 183 | 116 | 45 |

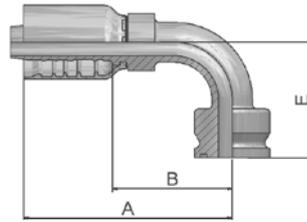
Full flange system see Eb-4.

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

X9 Flange – 90° Elbow

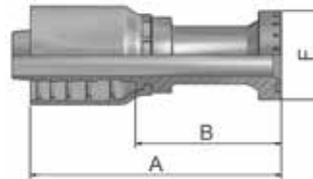
Full flange system for
ISO 6162-1 or ISO 6162-2



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1X977-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 81 | 45 | 43 |
| 1X977-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 108 | 62 | 61 |
| 1X977-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 108 | 62 | 61 |
| 1X977-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 110 | 56 | 70 |
| 1X977-16-16 | 25 | 1 | -16 | 25.4 | 1 | 131 | 77 | 70 |
| 1X977-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 131 | 77 | 70 |
| 1X977-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 130 | 67 | 90 |
| 1X977-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 148 | 84 | 90 |
| 1X977-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 148 | 84 | 90 |
| 1X977-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 180 | 113 | 104 |
| 1X977-32-32 | 51 | 2 | -32 | 50.8 | 2 | 221 | 144 | 138 |

Full flange system see Eb-4.

XA Caterpillar® Flange Straight

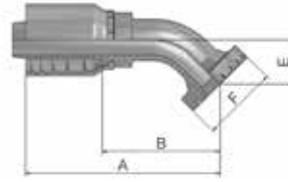


| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1XA77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 114 | 68 | 41 |
| 1XA77-16-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 88 | 42 | 48 |
| 1XA77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 141 | 87 | 48 |
| 1XA77-20-16 | 25 | 1 | -16 | 25.4 | 1 | 104 | 50 | 54 |
| 1XA77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 152 | 88 | 54 |
| 1XA77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 121 | 57 | 64 |
| 1XA77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 176 | 109 | 64 |
| 1XA77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 133 | 66 | 79 |
| 1XA77-32-32 | 51 | 2 | -32 | 50.8 | 2 | 192 | 115 | 79 |

Approved **fitting series** for hose types, depending on size:

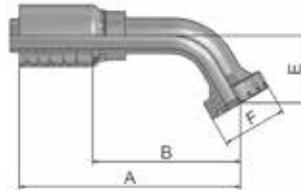
| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

XF Caterpillar® Flange 45° Elbow



| Part Number |  Hose I.D. | | | |  Flange | A mm | B mm | E mm | F mm |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | Inch | | | | |
| 1XF77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 122 | 76 | 31 | 41 |
| 1XF77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 145 | 91 | 36 | 48 |
| 1XF77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 166 | 103 | 37 | 54 |
| 1XF77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 166 | 103 | 37 | 64 |

XG Caterpillar® Flange 60° Elbow

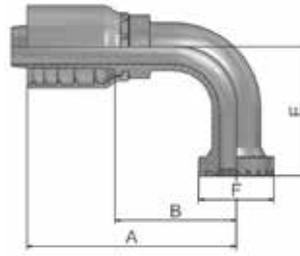


| Part Number |  Hose I.D. | | | |  Flange | A mm | B mm | E mm | F mm |
|-------------|--------------------------------------------------------------------------------------------------|-------|------|------|-----------------------------------------------------------------------------------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | Inch | | | | |
| 1XG77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 137 | 91 | 42 | 41 |
| 1XG77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 163 | 109 | 50 | 48 |
| 1XG77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 205 | 141 | 51 | 54 |

Approved **fitting series** for **hose types**, depending on size:

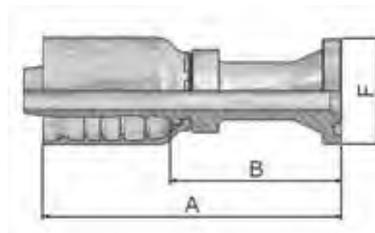
| | | | | | | | | | | | | | | | |
|-----------|-----------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT SX42TC | | | | | | | | | | | | | | |

XN Caterpillar® Flange 90° Elbow



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1XN77-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 108 | 62 | 63 | 41 |
| 1XN77-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 108 | 62 | 63 | 48 |
| 1XN77-16-16 | 25 | 1 | -16 | 25.4 | 1 | 131 | 77 | 74 | 48 |
| 1XN77-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 131 | 77 | 74 | 54 |
| 1XN77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 156 | 92 | 94 | 54 |
| 1XN77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 156 | 92 | 77 | 64 |
| 1XN77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 160 | 103 | 106 | 79 |
| 1XN77-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 169 | 103 | 106 | 79 |

K5 Komatsu® Flange Straight

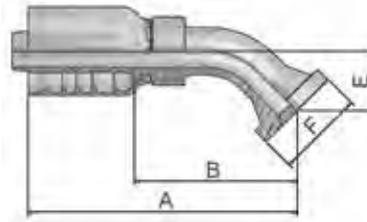


| Part Number | Hose I.D. | | | | A mm | B mm |
|-------------|-----------|------|------|------|---------|---------|
| | DN | Inch | Size | mm | | |
| 1K577-16-16 | 25 | 1 | -16 | 25.4 | 119 | 65 |

Approved **fitting series** for hose types, depending on size:

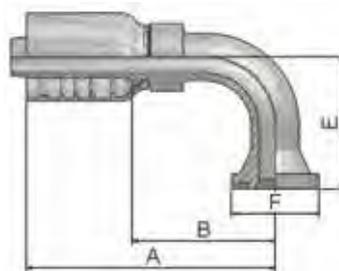
| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

K7 Komatsu® Flange 45° Elbow



| Part Number | Hose I.D. | | | | A mm | B mm | E mm |
|-------------|-----------|-------|------|------|---------|---------|---------|
| | DN | Inch | Size | mm | | | |
| 1K777-12-12 | 19 | 3/4 | -12 | 19.1 | 116 | 70 | 26 |
| 1K777-16-16 | 25 | 1 | -16 | 25.4 | 143 | 89 | 32 |
| 1K777-20-20 | 31 | 1 1/4 | -20 | 31.8 | 159 | 96 | 38 |

K9 Komatsu® Flange 90° Elbow



| Part Number | Hose I.D. | | | | A mm | B mm | E mm |
|-------------|-----------|-------|------|------|---------|---------|---------|
| | DN | Inch | Size | mm | | | |
| 1K977-12-12 | 19 | 3/4 | -12 | 19.1 | 108 | 62 | 58 |
| 1K977-16-16 | 25 | 1 | -16 | 25.4 | 127 | 73 | 70 |
| 1K977-20-20 | 31 | 1 1/4 | -20 | 31.8 | 148 | 84 | 90 |

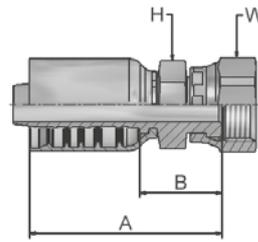
Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | SX42TC | | | | | | | | | | | | | |

JC

Female ORFS Swivel – Straight Short

ISO 12151-1 – SWSA
SAE J516 – ORFS

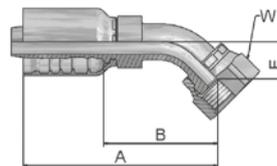


| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1JC77-8-8 | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 60 | 25 | 22 | 24 |
| 1JC77-10-8 | 12 | 1/2 | -8 | 12.7 | 1x14 | 65 | 31 | 24 | 30 |
| 1JC77-12-8 | 12 | 1/2 | -8 | 12.7 | 1 3/16x12 | 64 | 29 | 30 | 36 |
| 1JC77-10-10 | 16 | 5/8 | -10 | 15.9 | 1x14 | 70 | 31 | 24 | 30 |
| 1JC77-12-10 | 16 | 5/8 | -10 | 15.9 | 1 3/16x16 | 69 | 30 | 30 | 36 |
| 1JC77-10-12 | 19 | 3/4 | -12 | 19.1 | 1x14 | 79 | 33 | 30 | 30 |
| 1JC77-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 79 | 33 | 30 | 36 |
| 1JC77-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 81 | 35.3 | 36 | 41 |
| 1JC77-12-16 | 25 | 1 | -16 | 25.4 | 1 3/16x12 | 92 | 38 | 36 | 36 |
| 1JC77-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 91 | 37.1 | 36 | 41 |
| 1JC77-20-16 | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 90 | 36 | 41 | 50 |
| 1JC77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 107 | 44 | 46 | 50 |
| 1JC77-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 109 | 43 | 50 | 60 |
| 1JC77-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 143 | 66 | 65 | 75 |

J7

Female ORFS – Swivel 45° Elbow

ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°



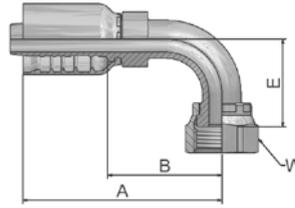
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1J777-8-8 | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 72.7 | 38 | 15 | 24 |
| 1J777-10-10 | 16 | 5/8 | -10 | 15.9 | 1x14 | 86 | 47 | 16 | 30 |
| 1J777-12-10 | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 98 | 59 | 21 | 36 |
| 1J777-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 111 | 65 | 21 | 36 |
| 1J777-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 114 | 68 | 24 | 41 |
| 1J777-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 133 | 79 | 24 | 41 |
| 1J777-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 145 | 81 | 25 | 50 |
| 1J777-24-20 | 31 | 1 1/4 | -20 | 31.8 | 2x12 | 148 | 84 | 27 | 60 |
| 1J777-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 176 | 109 | 42 | 60 |

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|----------|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 ... |
| | SX42LT | | SX42TC | | | | | | | | | | | |

J9 Female ORFS – Swivel 90° Elbow – Short Drop

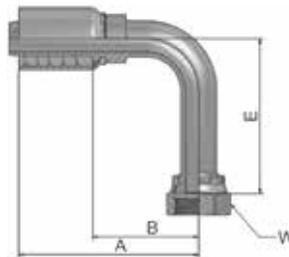
ISO 12151-1 – SWES
SAE J516 – ORFS 90°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1J977-8-8 | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 70.65 | 36 | 29 | 24 |
| 1J977-10-10 | 16 | 5/8 | -10 | 15.9 | 1x14 | 97 | 50 | 32 | 30 |
| 1J977-12-10 | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 89 | 50 | 48 | 36 |
| 1J977-10-12 | 19 | 3/4 | -12 | 19.1 | 1x14 | 97 | 51 | 32 | 30 |
| 1J977-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 108 | 62 | 48 | 36 |
| 1J977-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 108 | 62 | 56 | 41 |
| 1J977-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 131 | 77 | 56 | 41 |
| 1J977-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 146 | 82 | 64 | 50 |
| 1J977-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 163 | 96 | 69 | 60 |

J1 Female ORFS – Swivel 90° Elbow – Long Drop

ISO 12151-1 – SWEL
SAE J 516 – ORFS 90° L



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| 1J177-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 108 | 62 | 96 | 36 |
| 1J177-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 131 | 77 | 114 | 41 |

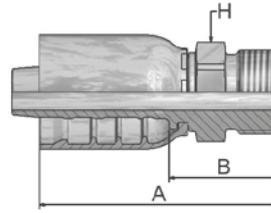
Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

JM

ORFS Male

ISO 12151-1-S – SAE J516



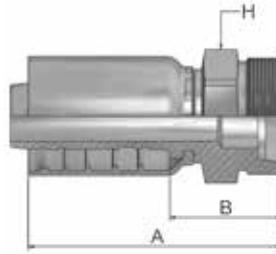
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| 1JM77-8-8 | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 66 | 32 | 22 |
| 1JM77-12-8 | 12 | 1/2 | -8 | 12.7 | 1 3/16x12 | 75 | 40 | 32 |
| 1JM77-10-10 | 16 | 5/8 | -10 | 15.9 | 1x14 | 76 | 37 | 27 |
| 1JM77-12-10 | 16 | 5/8 | -10 | 15.9 | 1 3/16x12 | 79 | 40 | 32 |
| 1JM77-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 89 | 43 | 32 |
| 1JM77-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 93 | 47 | 41 |
| 1JM77-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 96 | 40.9 | 41 |
| 1JM77-20-16 | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 93 | 39.2 | 46 |
| 1JM77-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 110 | 46 | 46 |
| 1JM77-24-20 | 31 | 1 1/4 | -20 | 31.8 | 2 12 | 116 | 52 | 55 |

JM fittings are supplied without O-ring.
Find O-rings in section E. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

FG Male French Gas Series
Rigid – Straight (24° Cone)



| Part Number |  Hose I.D. | | | |  Thread metric | A mm | B mm |  H mm |
|-------------|------------------------------------------------------------------------------------------------|------|------|------|-------------------------------------------------------------------------------------------------------|---------|---------|------------------------------------------------------------------------------------------------|
| | DN | Inch | Size | mm | | | | |
| 1FG77-27-12 | 19 | 3/4 | -12 | 19.1 | M36x1.5 | 82 | 36 | 36 |
| 1FG77-33-16 | 25 | 1 | -16 | 25.4 | M45x1.5 | 97 | 43 | 46 |

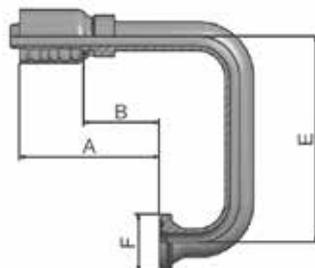
Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|--------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | SX42TC | | | | | | | | | | | | | |

Large range of special hose fittings for the MRO market

The demand for special hose fittings is part of our everyday business. In order to meet this demand with the authority expected, the Polymer Hose Division Europe has extended its standard offer with special hose fittings such as an extra drop length, etc.

The following is an overview of our special hose fitting selection:



Further special hose fittings are available on request.

| Part Number | Description | Hose I.D. Size | Flange Inch | A mm | B mm | E mm | F mm |
|--------------------------|----------------------------------------------|-------------------|----------------|---------|---------|---------|---------|
| 11977-12-12-SL100 | SAE 5000 psi 90° elbow - drop length 100 mm | -12 | 3/4 | 108 | 62 | 100 | 38 |
| 11977-12-12-SL150 | SAE 5000 psi 90° elbow - drop length 150 mm | -12 | 3/4 | 108 | 62 | 150 | 38 |
| 11977-16-12-SL100 | SAE 5000 psi 90° elbow - drop length 100 mm | -12 | 1 | 108 | 62 | 100 | 45 |
| 11977-16-12-SL150 | SAE 5000 psi 90° elbow - drop length 150 mm | -12 | 1 | 108 | 62 | 150 | 45 |
| 11977-16-16-SL150 | SAE 5000 psi 90° elbow - drop length 150 mm | -16 | 1 | 131 | 77 | 150 | 45 |
| 14N77-24-24-SL150 | SAE 5000 psi 90° elbow - drop length 150 mm | -24 | 1 1/2 | 175 | 108 | 150 | 60 |
| 16A77-20-20-RL186 | SAE 6000 psi - straight - Special | -20 | 1 1/4 | 175 | 112 | | 54 |
| 16F77-12-16-STB10 | SAE 6000 psi - 10° elbow | -16 | 3/4 | 143 | 89 | 6 | 41 |
| 16F77-20-16-RL110 | SAE 6000 psi - 45° elbow - Special | -16 | 1 1/4 | 164 | 110 | 32 | 54 |
| 16N77-12-12-SL100 | SAE 6000 psi 90° elbow - drop length 100 mm | -12 | 3/4 | 108 | 62 | 100 | 41 |
| 16N77-12-12-SL230 | SAE 6000 psi 90° elbow - drop length 230 mm | -12 | 3/4 | 108 | 62 | 230 | 41 |
| 16N77-12-12-SL72 | SAE 6000 psi 90° elbow - drop length 72 mm | -12 | 3/4 | 108 | 62 | 72 | 41 |
| 16N77-12-12-SL85 | SAE 6000 psi 90° elbow - drop length 85 mm | -12 | 3/4 | 108 | 62 | 85 | 41 |
| 16N77-12-12-STB115 | SAE 6000 psi - 115° elbow | -12 | 3/4 | 116 | 70 | 72 | 41 |
| 16N77-12-12-STB180 | SAE 6000 psi - 180° elbow | -12 | 3/4 | 101 | 55 | 150 | 41 |
| 16N77-12-16-SL55 | SAE 6000 psi 90° elbow - drop length 85 mm | -16 | 3/4 | 118 | 64 | 55 | 41 |
| 16N77-12-16-SL95 | SAE 6000 psi 90° elbow - drop length 95 mm | -16 | 3/4 | 118 | 64 | 95 | 41 |
| 16N77-16-16-SL100 | SAE 6000 psi 90° elbow - drop length 100 mm | -16 | 1 | 131 | 77 | 100 | 48 |
| 16N77-16-16-SL110 | SAE 6000 psi 90° elbow - drop length 110 mm | -16 | 1 | 131 | 77 | 110 | 48 |
| 16N77-16-16-SL120 | SAE 6000 psi 90° elbow - drop length 120 mm | -16 | 1 | 131 | 77 | 120 | 48 |
| 16N77-16-16-SL150 | SAE 6000 psi 90° elbow - drop length 150 mm | -16 | 1 | 131 | 77 | 150 | 48 |
| 16N77-16-16-SL175 | SAE 6000 psi 90° elbow - drop length 175 mm | -16 | 1 | 135 | 81 | 175 | 48 |
| 16N77-16-16-STB120 | SAE 6000 psi 120° elbow | -16 | 1 | 110 | 56 | 85 | 48 |
| 16N77-16-16-STB63-SL75 | SAE 6000 psi 63° elbow - drop length 75 mm | -16 | 1 | 167 | 113 | 75 | 48 |
| 16N77-20-16-SL120 | SAE 6000 psi 90° elbow - drop length 120 mm | -16 | 1 1/4 | 135 | 81 | 120 | 54 |
| 16N77-20-16-SL130 | SAE 6000 psi 90° elbow - drop length 130 mm | -16 | 1 1/4 | 135 | 81 | 130 | 54 |
| 16N77-20-16-STB110-SL150 | SAE 6000 psi 110° elbow - drop length 150 mm | -16 | 1 1/4 | 128 | 74 | 150 | 54 |
| 16N77-20-16-STB70-SL70 | SAE 6000 psi 70° elbow - drop length 70 mm | -16 | 1 1/4 | 157 | 103 | 70 | 54 |
| 16N77-20-20-SL115-RL220 | SAE 6000 psi 90° elbow - drop length 220 mm | -20 | 1 1/4 | 220 | 156 | 115 | 54 |
| 16N77-20-20-SL120 | SAE 6000 psi 90° elbow - drop length 120 mm | -20 | 1 1/4 | 151 | 87 | 120 | 54 |
| 16N77-20-20-SL150-RL150 | SAE 6000 psi 90° elbow - drop length 150 mm | -20 | 1 1/4 | 238 | 175 | 150 | 54 |
| 16N77-20-20-SL150-RL220 | SAE 6000 psi 90° elbow - drop length 150 mm | -20 | 1 1/4 | 220 | 156 | 150 | 54 |
| 16N77-20-20-SL195-RL320 | SAE 6000 psi 90° elbow - drop length 195 mm | -20 | 1 1/4 | 320 | 256 | 195 | 54 |
| 16N77-20-20-SL230-RL250 | SAE 6000 psi 90° elbow - drop length 230 mm | -20 | 1 1/4 | 338 | 275 | 230 | 54 |
| 16N77-20-20-SL230-RL320 | SAE 6000 psi 90° elbow - drop length 230 mm | -20 | 1 1/4 | 320 | 256 | 230 | 54 |
| 16377-16-16 | SAE 6000 psi 135° elbow | -16 | 1 | 122 | 68 | 88 | 48 |
| 16377-20-20 | SAE 6000 psi 135° elbow | -20 | 1 1/4 | 132 | 69 | 109 | 54 |
| 16377-24-24 | SAE 6000 psi 135° elbow | -24 | 1 1/2 | 124 | 57 | 129 | 64 |

Approved **fitting series** for **hose types**, depending on size:

| | | | | | | | | | | | | | | | |
|-----------|--------|-------|--------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|------|-----|
| 77 | 387 | 387ST | 387TC | 487 | 487ST | 487TC | 787 | 787TC | 787ST | 797 | 797TC | 797ST | 797RH | SX42 | ... |
| | SX42LT | | SX42TC | | | | | | | | | | | | |

Shell

Page De-1

VS

De-1



Interlock
Outside Skive

DIN – Metric

Page De-2 – De-5

CA

De-2



Female Metric 24°
Light Series with O-Ring
Swivel – Straight
ISO 12151-2-SWS-L – DKOL

CE

De-2



Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow
ISO 12151-2-SWE-L – DKOL 45°

CF

De-3



Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow
ISO 12151-2-SWE-L – DKOL 90°

D0

De-3



Male Metric 24°
Light Series – Rigid
Straight
ISO 12151-2-S-L – CEL

C9

De-4



Female Metric 24° – Swivel
Heavy Series with O-Ring
Straight
ISO 12151-2-SWS-S – DKOS

OC

De-4



Female Metric 24° – Swivel
Heavy Series with O-Ring
45° Elbow
ISO 12151-2-SWE-S – DKOS 45°

1C

De-5



Female Metric 24° – Swivel
Heavy Series with O-Ring
90° Elbow
ISO 12151-2-SWE-S – DKOS 90°

D2

De-5



Male Metric 24° – Rigid
Heavy Series – Straight
ISO 12151-2-S-S – CES

BSP

Page De-6 – De-7

92

De-6



Female BSP Parallel Pipe
Swivel – Straight (60° Cone)
BS5200-A – DKR

B1

De-6



Female BSP Parallel Pipe
Swivel
45° Elbow (60° Cone)
BS 5200-D – DKR 45°

B2

De-7



Female BSP Parallel Pipe
Swivel
90° Elbow (60° Cone)
BS 5200-B – DKR 90°

D9

De-7



Male BSP Parallel Pipe
Rigid – Straight (60° Cone)
BS5200 – AGR

SAE

Page De-8 – De-10

01

De-8



Male NPTF Pipe
Rigid – Straight
SAE J476A / J516 – AGN

03

De-8



Male JIC 37° – Rigid
Straight
ISO12151-5-S – AGJ

06/68

De-9



Female – JIC 37°
SAE 45° Dual Flare
Swivel – Straight
ISO12151-5-SWS – DKJ

37/3V

De-9



Female JIC 37°
SAE 45° – Dual Flare
Swivel Female 45° Elbow
ISO 12151-5-SWE 45° – DKJ 45°

39/3W

De-10



Female JIC 37°
SAE 45° – Dual Flare
Swivel Female 90° Elbow
ISO 12151-5-SWES – DKJ 90°

Flange

Page De-11 – De-13

15

De-11



**ISO 6162-1-Flange
Straight**

ISO 12151-3-S-L – SFL
(21.0 MPa/ 3000 psi)

17

De-11



**ISO 6162-1 Flange
45° Elbow**

ISO 12151-3 – E45 – L – SFL 45°
(21.0 MPa/ 3000 psi)

19

De-12



**ISO 6162-1-Flange
90° Elbow**

ISO 12151-3 – E – L – SFL 90°
(21.0 MPa/ 3000 psi)

6A

De-12



**ISO 6162-2-Flange
Straight**

ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)

6F

De-13



**ISO 6162-2-Flange
45° Elbow – Heavy Series**

ISO 12151-3 – E45-S – SFS 45°
(42.0 MPa/ 6000 psi)

6N

De-13



**ISO 6162-2-Flange
90° Elbow**

ISO 12151-3 – E-S – SFS 90°
(42.0 MPa/ 6000 psi)

ORFS

Page De-14 – De-15

JC

De-14



**Female ORFS
Swivel – Straight
Short**

ISO 12151-1 – SWSA SAE J516 – ORFS

J7

De-14



**Female ORFS – Swivel
45° Elbow**

ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°

J9

De-15



**Female ORFS – Swivel
90° Elbow – Short Drop**

ISO 12151-1 – SWES
SAE J516 – ORFS 90°

VS

**Interlock
Outside Skive**



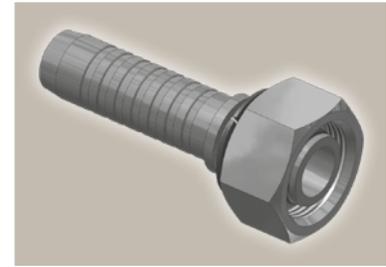
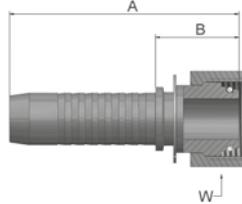
Only for use with
adjustable crimpers.

| Part Number |  Hose I.D. | | | | B mm |
|-------------|------------------------------------------------------------------------------------------------|------|------|------|---------|
| | DN | Inch | Size | mm | |
| 100VS-4 | 6 | 1/4 | -4 | 6.4 | 38 |
| 100VS-6 | 10 | 3/8 | -6 | 9.5 | 36 |
| 100VS-8 | 12 | 1/2 | -8 | 12.7 | 41 |

Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

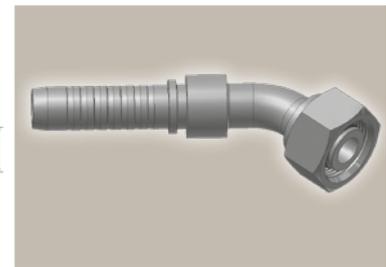
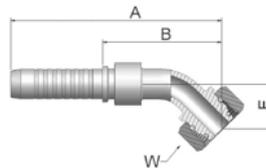
CA **Female Metric 24°
Light Series with O-Ring
Swivel – Straight**
ISO 12151-2-SWS-L – DKOL



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KCAVS-10-6 | 10 | 3/8 | -6 | 9.5 | M16x1.5 | 10 | 65 | 26 | 19 |
| KCAVS-12-6 | 10 | 3/8 | -6 | 9.5 | M18x1.5 | 12 | 62 | 23 | 22 |
| KCAVS-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 70 | 27 | 27 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

CE **Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow**
ISO 12151-2-SWE -L – DKOL 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| KCEVS-12-6 | 10 | 3/8 | -6 | 9.5 | M18x1.5 | 12 | 94 | 55 | 20 | 22 |
| KCEVS-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 104 | 62 | 24 | 27 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

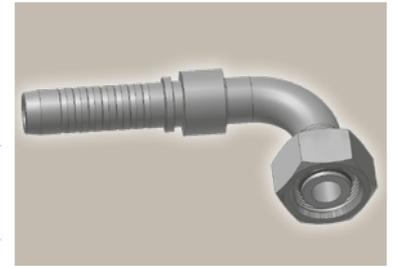
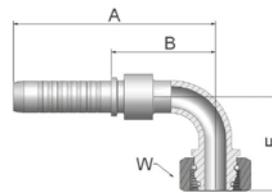
Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

CF

Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow

ISO 12151-2-SWE-L – DKOL 90°



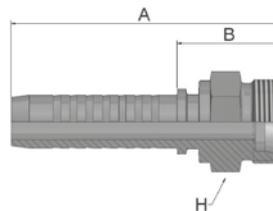
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| KCFVS-12-6 | 10 | 3/8 | -6 | 9.5 | M18x1.5 | 12 | 83 | 45 | 36 | 22 |
| KCFVS-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 92 | 50 | 45 | 27 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

DO

Male Metric 24° Light Series – Rigid Straight

ISO 12151-2-S-L – CEL



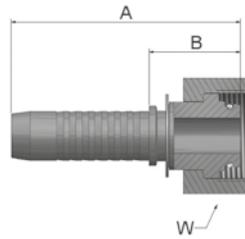
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | H mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KDOVS-12-6 | 10 | 3/8 | -6 | 9.5 | M18x1.5 | 12 | 64 | 25 | 19 |
| KDOVS-15-8 | 12 | 1/2 | -8 | 12.7 | M22x1.5 | 15 | 71 | 28 | 22 |

Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS

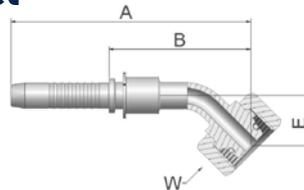


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KC9VS-8-4 | 6 | 1/4 | -4 | 6.4 | M16x1.5 | 8 | 61 | 23 | 19 |
| KC9VS-10-4 | 6 | 1/4 | -4 | 6.4 | M18x1.5 | 10 | 62 | 24 | 22 |
| KC9VS-8-6 | 10 | 3/8 | -6 | 9.5 | M16x1.5 | 8 | 64 | 25 | 19 |
| KC9VS-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 63 | 25 | 24 |
| KC9VS-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 63 | 24 | 27 |
| KC9VS-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 71 | 29 | 30 |
| KC9VS-20-8 | 12 | 1/2 | -8 | 12.7 | M30x2 | 20 | 71 | 29 | 36 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

OC Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE -S – DKOS 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| KOCVS-8-4 | 6 | 1/4 | -4 | 6.4 | M16x1.5 | 8 | 88 | 50 | 16 | 19 |
| KOCVS-10-4 | 6 | 1/4 | -4 | 6.4 | M18x1.5 | 10 | 88 | 50 | 16 | 22 |
| KOCVS-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 94 | 56 | 20 | 24 |
| KOCVS-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 94 | 56 | 20 | 27 |
| KOCVS-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 105 | 62 | 24 | 30 |

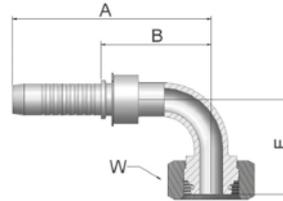
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

VS H31 H31TC H31ST FA35

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

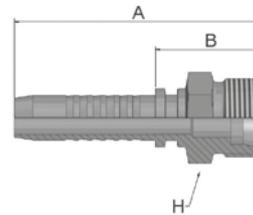


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|--------------|------|------|------|------|
| | DN | Inch | Size | mm | | | | | | |
| K1CVS-8-4 | 6 | 1/4 | -4 | 6.4 | M16x1.5 | 8 | 79 | 41 | 29 | 19 |
| K1CVS-10-4 | 6 | 1/4 | -4 | 6.4 | M18x1.5 | 10 | 79 | 41 | 29 | 22 |
| K1CVS-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 83 | 45 | 37 | 24 |
| K1CVS-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 12 | 83 | 45 | 37 | 27 |
| K1CVS-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 93 | 51 | 45 | 30 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C. O-rings see section Eb. Special O-rings are available on request.

D2 Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



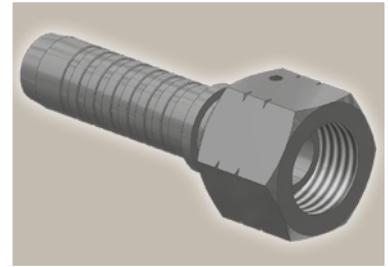
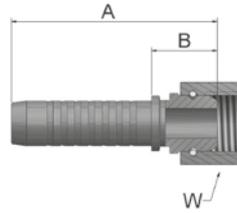
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | H mm |
|-------------|-----------|------|------|------|---------------|--------------|------|------|------|
| | DN | Inch | Size | mm | | | | | |
| KD2VS-12-6 | 10 | 3/8 | -6 | 9.5 | M20x1.5 | 12 | 66 | 27 | 22 |
| KD2VS-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 68 | 30 | 22 |
| KD2VS-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 74 | 31 | 24 |

Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

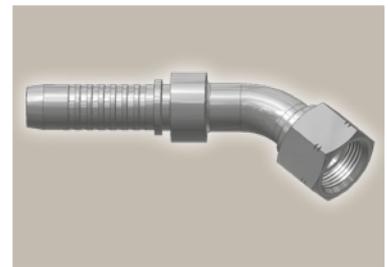
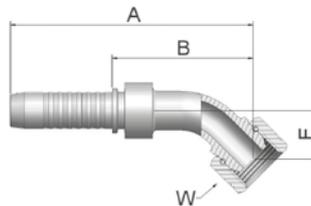
BS5200-A – DKR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K92VS-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 60 | 22 | 22 |
| K92VS-8-6 | 10 | 3/8 | -6 | 9.5 | 1/2x14 | 62 | 23 | 27 |
| K92VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 67 | 24 | 27 |
| K92VS-10-8 | 12 | 1/2 | -8 | 12.7 | 5/8x14 | 65 | 23 | 30 |

B1 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone)

BS 5200-D – DKR 45°



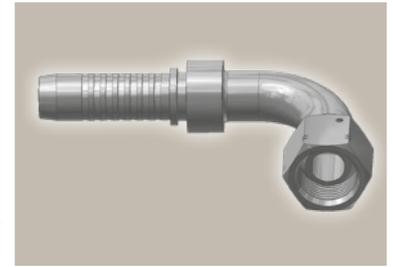
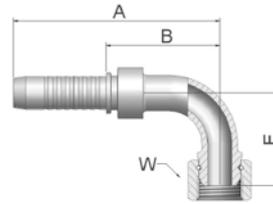
| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KB1VS-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 90 | 52 | 17 | 22 |
| KB1VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 100 | 58 | 20 | 27 |
| KB1VS-10-8 | 12 | 1/2 | -8 | 12.7 | 5/8x14 | 99 | 57 | 19 | 30 |

Approved **fitting series** for hose types, depending on size:

VS H31 H31TC H31ST FA35

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

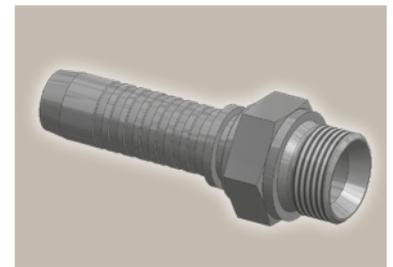
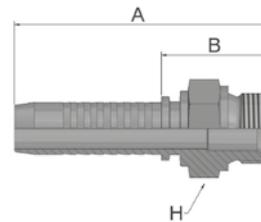
BS 5200-B – DKR 90°



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KB2VS-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 82 | 44 | 33 | 22 |
| KB2VS-8-6 | 10 | 3/8 | -6 | 9.5 | 1/2x14 | 83 | 45 | 36 | 27 |
| KB2VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 92 | 50 | 40 | 27 |
| KB2VS-10-8 | 12 | 1/2 | -8 | 12.7 | 5/8x14 | 92 | 50 | 38 | 30 |

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



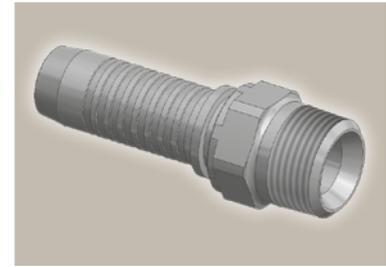
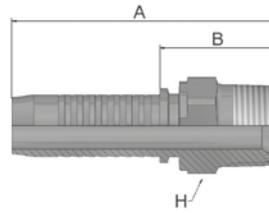
| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | H mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| KD9VS-4-4 | 6 | 1/4 | -4 | 6.4 | 1/4x19 | 67 | 28 | 19 |
| KD9VS-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 71 | 33 | 22 |
| KD9VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 78 | 36 | 27 |

Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

01 Male NPTF Pipe Rigid – Straight

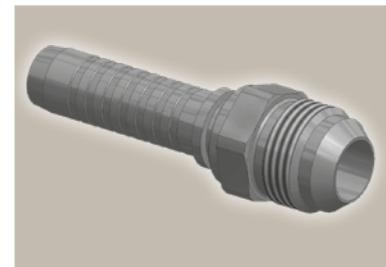
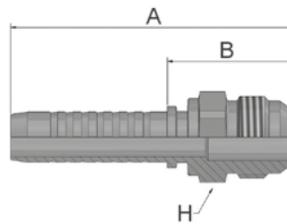
SAE J476A / J516 – AGN



| Part Number | Hose I.D. | | | | Thread NPTF | A mm | B mm | H mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K01VS-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8-18 | 71 | 33 | 19 |
| K01VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2-14 | 83 | 40 | 22 |

03 Male JIC 37° – Rigid Straight

ISO12151-5-S – AGJ

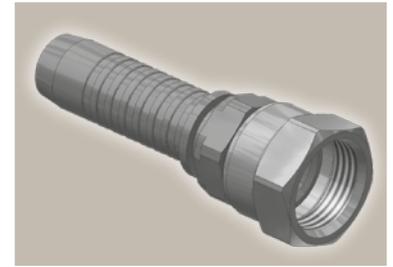
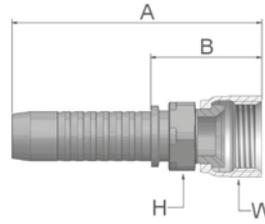


| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K03VS-6-6 | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 71 | 32 | 19 |
| K03VS-8-6 | 10 | 3/8 | -6 | 9.5 | 3/4x16 | 69 | 31 | 22 |
| K03VS-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 79 | 36 | 22 |
| K03VS-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 77 | 35 | 24 |

Approved **fitting series** for hose types, depending on size:

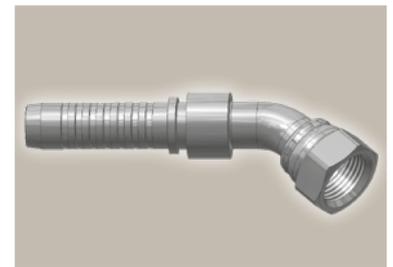
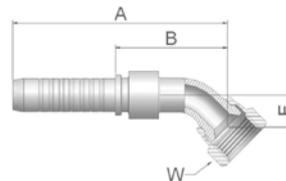
VS H31 | H31TC | H31ST | FA35

06/68 Female – JIC 37°
SAE 45° Dual Flare
Swivel – Straight
ISO12151-5-SWS – DKJ



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K68VS-4-4 | 6 | 1/4 | -4 | 6.4 | 7/16 20 | 66 | 28 | 14 | 17 |
| K06VS-6-6 | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 69 | 31 | 17 | 19 |
| K68VS-8-6 | 10 | 3/8 | -6 | 9.5 | 3/4x16 | 74 | 35 | 17 | 22 |
| K68VS-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 77 | 35 | 22 | 22 |
| K68VS-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 83 | 41 | 22 | 27 |
| K06VS-12-8 | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 83 | 41 | 27 | 32 |

37/3V Female JIC 37°
SAE 45° – Dual Flare
Swivel Female 45° Elbow
ISO 12151-5-SWE 45° – DKJ 45°

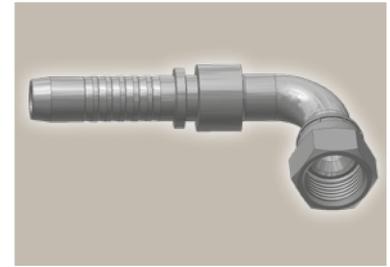
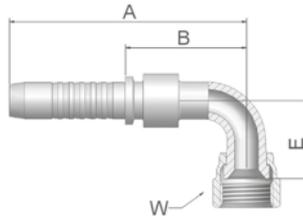


| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K37VS-6-6 | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 83 | 45 | 11 | 19 |
| K3VVS-8-6 | 10 | 3/8 | -6 | 9.5 | 3/4x16 | 87 | 49 | 15 | 22 |
| K3VVS-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 93 | 51 | 15 | 22 |
| K3VVS-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 94 | 52 | 16 | 27 |
| K37VS-12-8 | 12 | 1/2 | -8 | 12.7 | 1 1/16x12 | 99 | 57 | 21 | 32 |

Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

39/3W Female JIC 37°
SAE 45° – Dual Flare
Swivel Female 90° Elbow
 ISO 12151-5-SWES – DKJ 90°



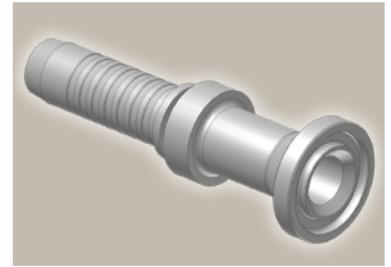
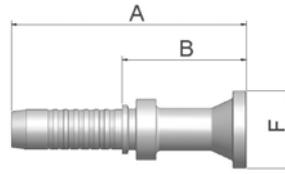
| Part Number |  Hose I.D. | | | |  Thread UNF | A mm | B mm | E mm |  W mm |
|-------------|------------------------------------------------------------------------------------------------|------|------|------|----------------------------------------------------------------------------------------------------|---------|---------|---------|------------------------------------------------------------------------------------------------|
| | DN | Inch | Size | mm | | | | | |
| K39VS-6-6 | 10 | 3/8 | -6 | 9.5 | 9/16x18 | 80 | 42 | 23 | 19 |
| K3WVS-8-6 | 10 | 3/8 | -6 | 9.5 | 3/4x16 | 80 | 42 | 29 | 22 |
| K3WVS-8-8 | 12 | 1/2 | -8 | 12.7 | 3/4x16 | 87 | 45 | 29 | 22 |
| K3WVS-10-8 | 12 | 1/2 | -8 | 12.7 | 7/8x14 | 87 | 45 | 32 | 27 |

Approved **fitting series** for **hose types**, depending on size:

VS H31 | H31TC | H31ST | FA35

15 ISO 6162-1-Flange Straight

ISO 12151-3-S-L – SFL
(21.0 MPa/ 3000 psi)

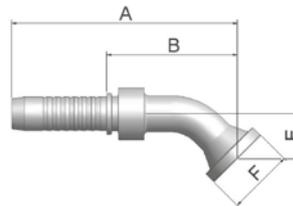


| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K15VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 102 | 59 | 30 |
| K15VS-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 77 | 34 | 38 |

SAE flange halves see in section Eb.

17 ISO 6162-1 Flange 45° Elbow

ISO 12151-3 – E45 – L – SFL 45°
(21.0 MPa/ 3000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K17VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 100 | 57 | 20 | 30 |
| K17VS-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 101 | 58 | 21 | 38 |

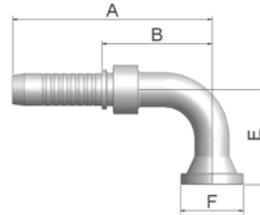
SAE flange halves see in section Eb.

Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

19 ISO 6162-1-Flange 90° Elbow

ISO 12151-3 – E- L – SFL 90°
(21.0 MPa/ 3000 psi)

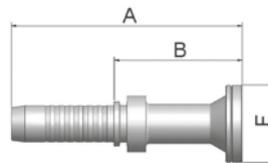


| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K19VS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 92 | 50 | 41 | 30 |
| K19VS-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 92 | 50 | 42 | 38 |

SAE flange halves see in section Eb.

6A ISO 6162-2-Flange Straight

ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K6AVS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 105 | 63 | 32 |
| K6AVS-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 79 | 36 | 41 |

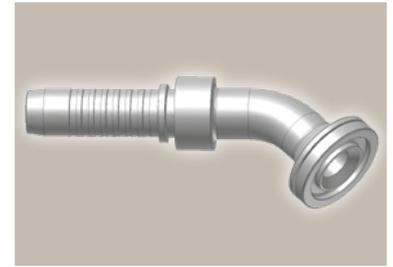
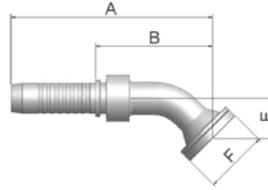
SAE flange halves see in section Eb.

Approved **fitting series** for hose types, depending on size:

VS H31 H31TC H31ST FA35

6F ISO 6162-2-Flange 45° Elbow – Heavy Series

ISO 12151-3 – E45-S – SFS 45°
(42.0 MPa/ 6000 psi)

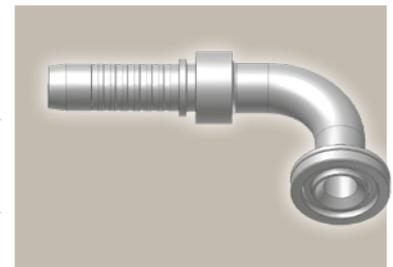
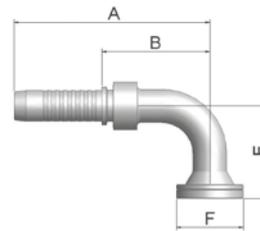


| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K6FVS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 94 | 52 | 19 | 32 |
| K6FVS-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 106 | 64 | 26 | 41 |

SAE flange halves see in section Eb.

6N ISO 6162-2-Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K6NVS-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2 | 87 | 45 | 41 | 32 |
| K6NVS-12-8 | 12 | 1/2 | -8 | 12.7 | 3/4 | 92 | 50 | 45 | 41 |

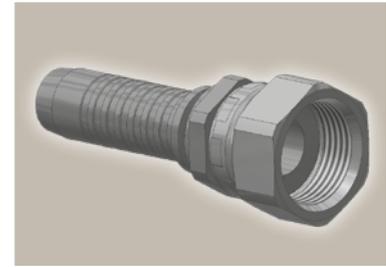
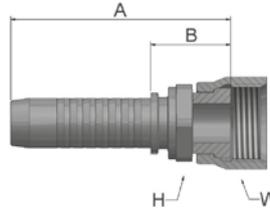
SAE flange halves see in section Eb.

Approved **fitting series** for hose types, depending on size:

VS H31 | H31TC | H31ST | FA35

JC Female ORFS Swivel – Straight Short

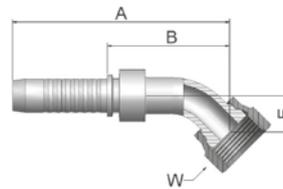
ISO 12151-1 – SWSA
SAE J516 – ORFS



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KJCVS-6-6 | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 60 | 22 | 17 | 22 |
| KJCVS-8-6 | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 62 | 23 | 19 | 24 |
| KJCVS-8-8 | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 67 | 24 | 22 | 24 |
| KJCVS-10-8 | 12 | 1/2 | -8 | 12.7 | 1x14 | 69 | 26 | 24 | 30 |

J7 Female ORFS – Swivel 45° Elbow

ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KJ7VS-6-6 | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 83 | 45 | 11 | 22 |
| KJ7VS-8-6 | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 89 | 51 | 15 | 24 |
| KJ7VS-8-8 | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 93 | 51 | 15 | 24 |
| KJ7VS-10-8 | 12 | 1/2 | -8 | 12.7 | 1x14 | 96 | 53 | 16 | 30 |

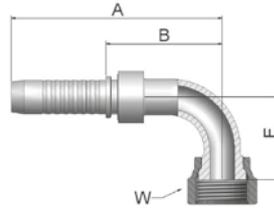
Approved **fitting series** for hose types, depending on size:

VS H31 H31TC H31ST FA35

J9

Female ORFS – Swivel 90° Elbow – Short Drop

ISO 12151-1 – SWES
SAE J516 – ORFS 90°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KJ9VS-6-6 | 10 | 3/8 | -6 | 9.5 | 11/16x16 | 80 | 42 | 23 | 22 |
| KJ9VS-8-6 | 10 | 3/8 | -6 | 9.5 | 13/16x16 | 83 | 45 | 29 | 24 |
| KJ9VS-8-8 | 12 | 1/2 | -8 | 12.7 | 13/16x16 | 87 | 45 | 29 | 24 |
| KJ9VS-10-8 | 12 | 1/2 | -8 | 12.7 | 1x14 | 88 | 46 | 30 | 30 |

Approved **fitting series** for **hose types**, depending on size:

VS H31 | H31TC | H31ST | FA35

Shell

Page Df-1

V4

Df-1



**Interlock
In-/Outside Skive**
4 Wire Hoses

V6

Df-1



**Interlock
In-/Outside Skive**
6 Wire Hoses

DIN – Metric

Page Df-2 – Df-5

CA

Df-2



**Female Metric 24°
Light Series with O-Ring
Swivel – Straight**
ISO 12151-2-SWS-L – DKOL

CE

Df-2



**Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow**
ISO 12151-2-SWE-L – DKOL 45°

CF

Df-3



**Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow**
ISO 12151-2-SWE-L – DKOL 90°

C9

Df-3



**Female Metric 24° – Swivel
Heavy Series with O-Ring
Straight**
ISO 12151-2-SWS-S – DKOS

OC

Df-4



**Female Metric 24° – Swivel
Heavy Series with O-Ring
45° Elbow**
ISO 12151-2 – SWE -S – DKOS 45°

1C

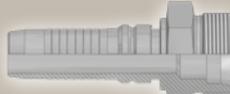
Df-4



**Female Metric 24° – Swivel
Heavy Series with O-Ring
90° Elbow**
ISO 12151-2-SWE-S – DKOS 90°

D2

Df-5



**Male Metric 24° – Rigid
Heavy Series – Straight**
ISO 12151-2-S-S – CES

BSP

Page Df-6 – Df-8

92

Df-6



**Female BSP Parallel Pipe
Swivel – Straight (60° Cone)**
BS5200-A – DKR

B1

Df-6



**Female BSP Parallel Pipe
Swivel
45° Elbow (60° Cone)**
BS 5200-D – DKR 45°

B2

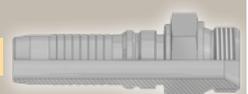
Df-7



**Female BSP Parallel Pipe
Swivel
90° Elbow (60° Cone)**
BS 5200-B – DKR 90°

D9

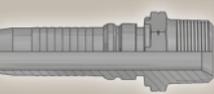
Df-7



**Male BSP Parallel Pipe
Rigid – Straight (60° Cone)**
BS5200 – AGR

91

Df-8



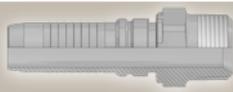
**Male BSP Taper Pipe – Rigid
Straight**
BS5200 – AGR-K

SAE

Page Df-9 – Df-11

01

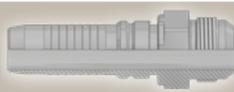
Df-9



**Male NPTF Pipe
Rigid – Straight**
SAE J476A / J516 – AGN

03

Df-9



**Male JIC 37° – Rigid
Straight**
ISO12151-5-S – AGJ

06

Df-10



**Female JIC 37° – Swivel
Straight**
ISO12151-5-SWS – DKJ

37

Df-10



**Female JIC 37° – Swivel
45° Elbow**
ISO 12151-5-SWE 45° – DKJ 45°

39

Df-11



**Female JIC 37° – Swivel
90° Elbow**
ISO 12151-5-SWES – DKJ 90°

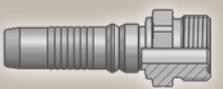
Flange

Page Df-12 – Df-22

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>15/4A Df-12 ISO 6162-1-Flange Straight ISO 12151-3-S-L – SFL (35.0 MPa/ 5000 psi)</p>  | <p>17/4F Df-13 ISO 6162-1-Flange 45° Elbow ISO 12151-3 – E45S – L – SFL 45° (35.0 MPa/ 5000 psi)</p>  | <p>19/4N Df-14 ISO 6162-1-Flange 90° Elbow ISO 12151-3-E-L – SFL 90° (35.0 MPa/ 5000 psi)</p>  | <p>6A Df-15 ISO 6162-2-Flange Straight ISO 12151-3-S-S – SFS (42.0 MPa/ 6000 psi)</p>  |
| <p>6F Df-16 ISO 6162-2-Flange 45° Elbow – Heavy Series ISO 12151-3 – E45-S – SFS 45° (42.0 MPa/ 6000 psi)</p>  | <p>6N Df-17 ISO 6162-2-Flange 90° Elbow ISO 12151-3 – E-S – SFS 90° (42.0 MPa/ 6000 psi)</p>  | <p>8A Df-18 Flange – Straight 8000 psi</p>  | <p>8F Df-18 Flange – 45° Elbow 8000 psi</p>  |
| <p>8N Df-19 Flange – 90° Elbow 8000 psi</p>  | <p>X5 Df-19 Flange – Straight Full flange system for ISO 6162-1 or ISO 6162-2</p>  | <p>X7 Df-20 Flange – 45° Elbow Full flange system for ISO 6162-1 or ISO 6162-2</p>  | <p>X9 Df-20 Flange – 90° Elbow Full flange system for ISO 6162-1 or ISO 6162-2</p>  |
| <p>XA Df-21 Caterpillar® Flange Straight</p>  | <p>XF Df-21 Caterpillar® Flange 45° Elbow</p>  | <p>XG Df-22 Caterpillar® Flange 60° Elbow</p>  | <p>XN Df-22 Caterpillar® Flange 90° Elbow</p>  |

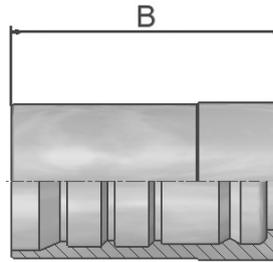
ORFS

Page Df-23 – Df-25

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JC Df-23 Female ORFS Swivel – Straight Short ISO 12151-1 – SWSA</p>  | <p>JS Df-23 ORFS Swivel Female (Long) ISO 12151-1-SWSB SAE J516 – ORFS</p>  | <p>J7 Df-24 Female ORFS – Swivel 45° Elbow ISO 12151-1 – SWE 45° SAE J516 – ORFS 45°</p>  | <p>J9 Df-24 Female ORFS – Swivel 90° Elbow – Short Drop ISO 12151-1 – SWES SAE J516 – ORFS 90°</p>  |
| <p>JM Df-25 ORFS Male ISO 12151-1-S – SAE J516</p>  | | | |

V4 Interlock In-/Outside Skive

4 Wire Hoses



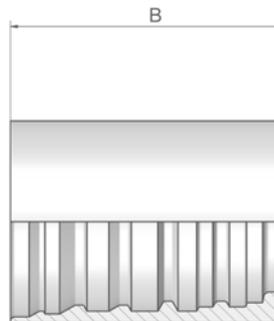
Only for use with adjustable crimpers.
Minimum of 320 tons crimping force recommended.

| Part Number |  Hose I.D. | | | | B mm |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------|
| | DN | Inch | Size | mm | |
| 100V4-10 | 16 | 5/8 | -10 | 15.9 | 49 |
| 100V4-12 | 19 | 3/4 | -12 | 19.1 | 60 |
| 100V4-16 | 25 | 1 | -16 | 25.4 | 75 |
| 100V4-20 * | 31 | 1 1/4 | -20 | 31.8 | 88 |
| 100V6-20 * | 31 | 1 1/4 | -20 | 31.8 | 90 |
| 100V4-24 * | 38 | 1 1/2 | -24 | 38.1 | 94 |

* not suitable for R42, R42TC and R42ST

V6 Interlock In-/Outside Skive

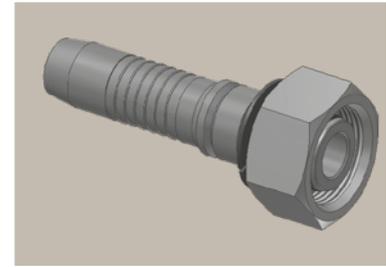
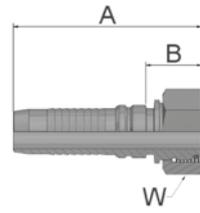
6 Wire Hoses



Only for use with adjustable crimpers.
Minimum of 340 tons crimping force required.

| Part Number |  Hose I.D. | | | | B mm |
|-------------|--------------------------------------------------------------------------------------------------|-------|------|------|---------|
| | DN | Inch | Size | mm | |
| 100V6-24 | 38 | 1 1/2 | -24 | 38.1 | 96 |
| 100V6-32 | 51 | 2 | -32 | 50.8 | 110 |
| 100V6-40 | 63 | 2 1/2 | -40 | 63.5 | 134 |
| 100V6-48 | 76 | 3 | -48 | 76.2 | 110 |

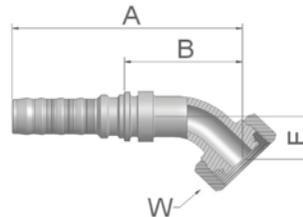
CA **Female Metric 24°
Light Series with O-Ring
Swivel – Straight**
ISO 12151-2-SWS-L – DKOL



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KCAV4-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 89 | 28 | 36 |
| KCAV4-28-16 | 25 | 1 | -16 | 25.4 | M36x2 | 28 | 103 | 31 | 41 |
| KCAV4-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 120 | 32 | 50 |
| KCAV6-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 130 | 39 | 50 |
| KCAV4-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 128 | 35 | 60 |
| KCAV6-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 138 | 42 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

CE **Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow**
ISO 12151-2-SWE -L – DKOL 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| KCEV4-22-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 22 | 137 | 75 | 29 | 36 |
| KCEV4-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 197 | 109 | 37 | 50 |
| KCEV6-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 188 | 97 | 37 | 50 |
| KCEV6-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 226 | 130 | 49 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

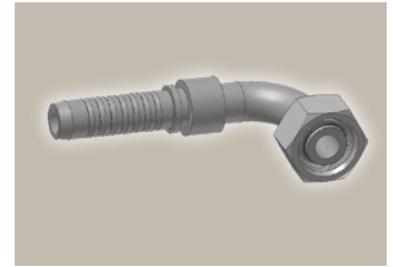
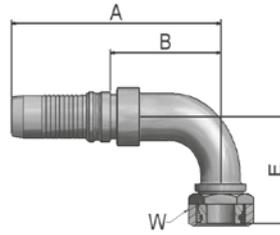
Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

CF

Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow

ISO 12151-2-SWE-L – DKOL 90°



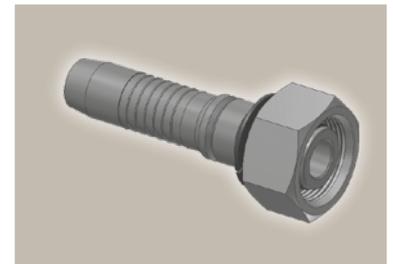
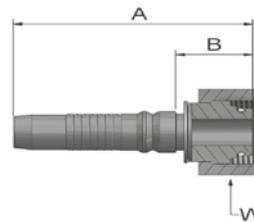
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| KCFV4-22-16 | 25 | 1 | -16 | 25.4 | M30x2 | 22 | 150 | 77 | 70 | 36 |
| KCFV4-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 186 | 98 | 79 | 50 |
| KCFV6-35-20 | 31 | 1 1/4 | -20 | 31.8 | M45x2 | 35 | 177 | 86 | 79 | 50 |
| KCFV6-42-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 42 | 209 | 113 | 101 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

C9

Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KC9V4-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 20 | 87 | 27 | 36 |
| KC9V4-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 88 | 26 | 36 |
| KC9V4-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 91 | 30.3 | 46 |
| KC9V4-30-12 | 19 | 3/4 | -12 | 19.1 | M42x2 | 30 | 95 | 33 | 50 |
| KC9V4-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 103 | 30 | 46 |
| KC9V4-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 108 | 35 | 50 |
| KC9V4-38-16 | 25 | 1 | -16 | 25.4 | M52x2 | 38 | 110 | 37 | 60 |
| KC9V4-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 123 | 35 | 50 |
| KC9V4-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 126 | 38 | 60 |
| KC9V6-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 131.5 | 41.5 | 50 |
| KC9V6-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 135 | 44 | 60 |
| KC9V4-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 129 | 36 | 60 |
| KC9V6-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 139 | 43 | 60 |
| KC9V6-54-32 | 51 | 2 | -32 | 50.8 | M68x2 | 54 | 175 | 65 | 80 |

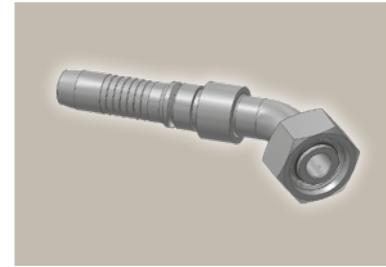
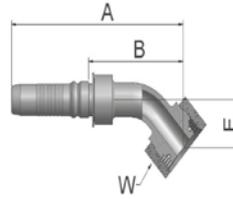
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

0C Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE -S – DKOS 45°

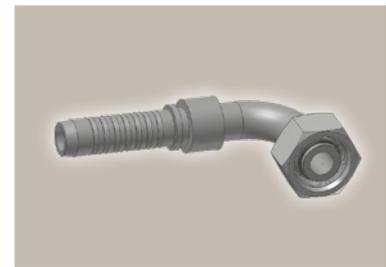
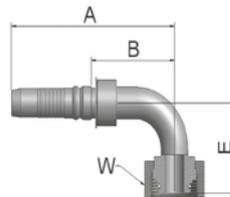


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| K0CV4-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 20 | 124 | 65 | 26 | 36 |
| K0CV4-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 138 | 76 | 30 | 36 |
| K0CV4-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 137 | 76 | 29 | 46 |
| K0CV4-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 161 | 88 | 33 | 46 |
| K0CV4-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 162 | 88.7 | 33 | 50 |
| K0CV4-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 193 | 105 | 34 | 50 |
| K0CV4-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 197 | 108.7 | 37 | 60 |
| K0CV6-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 184 | 93 | 34 | 50 |
| K0CV6-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 187 | 96.3 | 37 | 60 |
| K0CV4-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 227 | 133 | 49 | 60 |
| K0CV6-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 226 | 130 | 49 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| K1CV4-20-10 | 16 | 5/8 | -10 | 15.9 | M30x2 | 20 | 112 | 52.3 | 50 | 36 |
| K1CV4-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 125 | 63 | 60 | 36 |
| K1CV4-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 126 | 65 | 59 | 46 |
| K1CV4-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 150 | 77 | 69 | 46 |
| K1CV4-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 151 | 77.7 | 69 | 50 |
| K1CV4-38-16 | 25 | 1 | -16 | 25.4 | M52x2 | 38 | 150 | 77 | 68 | 60 |
| K1CV4-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 183 | 95 | 73 | 50 |
| K1CV4-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 187 | 98.7 | 78 | 60 |
| K1CV6-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 169 | 78 | 69 | 50 |
| K1CV6-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 177 | 86.3 | 78 | 60 |
| K1CV4-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 210 | 117 | 101 | 60 |
| K1CV6-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 209 | 113 | 101 | 60 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

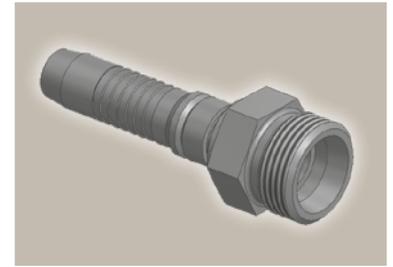
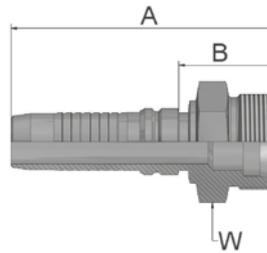
Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

D2

Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



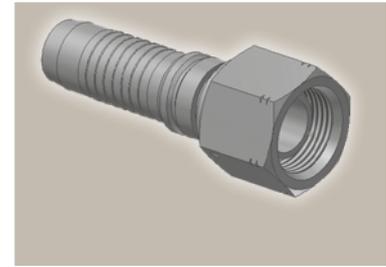
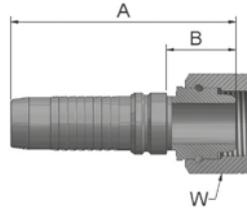
| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KD2V4-20-12 | 19 | 3/4 | -12 | 19.1 | M30x2 | 20 | 96 | 34 | 30 |
| KD2V4-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 98 | 36.3 | 36 |
| KD2V4-25-16 | 25 | 1 | -16 | 25.4 | M36x2 | 25 | 110.3 | 37.7 | 46 |
| KD2V4-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 115 | 41.7 | 46 |
| KD2V4-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 135 | 46.7 | 55 |
| KD2V6-30-20 | 31 | 1 1/4 | -20 | 31.8 | M42x2 | 30 | 140 | 59 | 46 |
| KD2V6-38-20 | 31 | 1 1/4 | -20 | 31.8 | M52x2 | 38 | 142 | 51 | 55 |
| KD2V4-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 139 | 46 | 55 |
| KD2V6-38-24 | 38 | 1 1/2 | -24 | 38.1 | M52x2 | 38 | 151 | 55 | 55 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

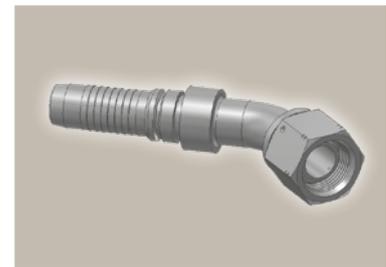
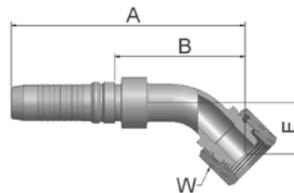
BS5200-A – DKR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K92V4-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 80 | 20.3 | 30 |
| K92V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 85 | 23.3 | 32 |
| K92V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1x11 | 93 | 31.3 | 41 |
| K92V4-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 105 | 32 | 41 |
| K92V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 118 | 30 | 50 |
| K92V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 127 | 36 | 50 |
| K92V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 124 | 30.9 | 55 |
| K92V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 134 | 38 | 55 |
| K92V4-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 131 | 34.2 | 70 |
| K92V6-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 151 | 41 | 70 |

B1 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone)

BS 5200-D – DKR 45°



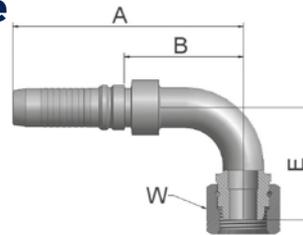
| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KB1V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 134 | 72.3 | 26 | 32 |
| KB1V4-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 164 | 91 | 36 | 41 |
| KB1V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 198 | 109.7 | 38 | 50 |
| KB1V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 194 | 103 | 43 | 50 |
| KB1V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 230 | 137 | 52 | 55 |
| KB1V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 229 | 133 | 52 | 55 |
| KB1V4-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 277 | 180 | 70 | 70 |
| KB1V6-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 288 | 178 | 70 | 70 |

Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

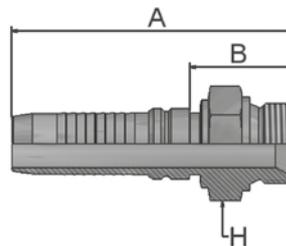
BS 5200-B – DKR 90°



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KB2V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 125 | 63.3 | 55 | 32 |
| KB2V4-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 150 | 77 | 74 | 41 |
| KB2V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 186 | 98.7 | 80 | 50 |
| KB2V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 177 | 86 | 80 | 50 |
| KB2V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 210 | 116.9 | 103 | 55 |
| KB2V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 209 | 113 | 103 | 55 |
| KB2V4-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 257 | 160 | 149 | 70 |
| KB2V6-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 268 | 157 | 149 | 70 |

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



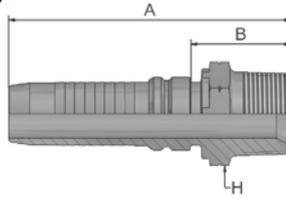
| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| KD9V4-10-10 | 16 | 5/8 | -10 | 15.9 | 5/8x14 | 94 | 35 | 30 |
| KD9V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 99 | 37.3 | 32 |
| KD9V4-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 115 | 42.7 | 41 |
| KD9V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 134 | 46.2 | 50 |
| KD9V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 139 | 48 | 50 |
| KD9V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 142 | 48.4 | 55 |
| KD9V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 155 | 58 | 55 |
| KD9V4-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 148 | 50 | 70 |
| KD9V6-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 168 | 58 | 70 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

91 Male BSP Taper Pipe – Rigid Straight

BS5200 – AGR-K



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K91V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4x14 | 99 | 37 | 30 |
| K91V4-16-16 | 25 | 1 | -16 | 25.4 | 1x11 | 113 | 40 | 36 |
| K91V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4x11 | 138 | 50 | 46 |
| K91V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2x11 | 144 | 59 | 55 |
| K91V4-32-32 | 51 | 2 | -32 | 50.8 | 2x11 | 154 | 56 | 65 |

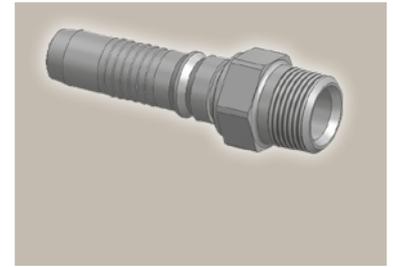
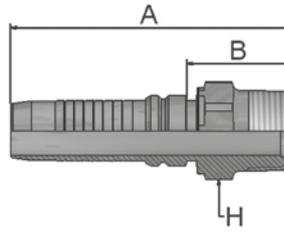
Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

01

Male NPTF Pipe Rigid – Straight

SAE J476A/ J516 – AGN

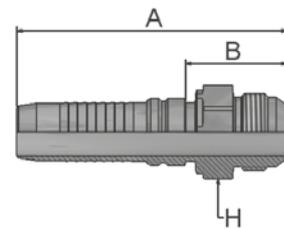


| Part Number | Hose I.D. | | | | Thread NPTF | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K01V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4-14 | 100 | 38.3 | 30 |
| K01V4-16-16 | 25 | 1 | -16 | 25.4 | 1-11 1/2 | 116.5 | 43.9 | 36 |
| K01V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4-11 1/2 | 146 | 58.2 | 46 |
| K01V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4-11 1/2 | 151 | 60.2 | 46 |
| K01V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2-11 1/2 | 148.4 | 55.3 | 50 |
| K01V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2-11 1/2 | 159 | 62.7 | 50 |
| K01V4-32-32 | 51 | 2 | -32 | 50.8 | 2-11 1/2 | 159.8 | 62.3 | 65 |
| K01V6-32-32 | 51 | 2 | -32 | 50.8 | 2-11 1/2 | 181 | 70 | 65 |

03

Male JIC 37° – Rigid Straight

ISO12151-5-S – AGJ



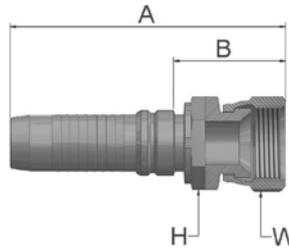
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K03V4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 101 | 39.3 | 30 |
| K03V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 103 | 41.3 | 36 |
| K03V4-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 117 | 44.1 | 36 |
| K03V4-20-16 | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 122 | 49.5 | 46 |
| K03V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 139 | 50.7 | 46 |
| K03V4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 139 | 51 | 50 |
| K03V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 147 | 56 | 46 |
| K03V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 146 | 52.6 | 50 |
| K03V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 156 | 60 | 50 |
| K03V4-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 161 | 64 | 65 |
| K03V6-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 182 | 72 | 65 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | |
|-----------|-----------------------------------------------------------------------------|
| V4 | H31 H31TC H31ST R42 R42TC R42ST R35 R35TC RS35TC R50TC H29 H29TC H29ST FA35 |
| V6 | R35 R35TC RD35TC RS35TC R42 R42ST R42TC R50TC FA35 CEM69TC |

06 Female JIC 37° – Swivel Straight

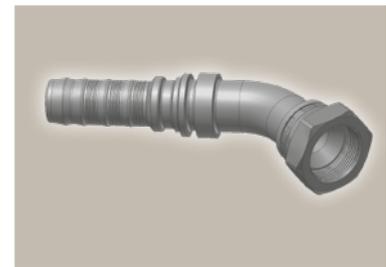
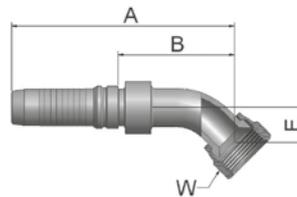
ISO12151-5-SWS – DKJ



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K06V4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 105 | 43 | 30 | 32 |
| K06V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 109 | 48 | 36 | 41 |
| K06V4-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 122 | 50 | 36 | 41 |
| K06V4-20-16 | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 125 | 52 | 41 | 50 |
| K06V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 146 | 58 | 46 | 50 |
| K06V4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 150 | 63 | 50 | 60 |
| K06V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 154 | 63 | 46 | 50 |
| K06V6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 159 | 68 | 50 | 60 |
| K06V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 152 | 59 | 50 | 60 |
| K06V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 163 | 67 | 50 | 60 |
| K06V4-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 168 | 70 | 65 | 75 |
| K06V6-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 188 | 77 | 65 | 75 |

37 Female JIC 37° – Swivel 45° Elbow

ISO 12151-5-SWE 45° – DKJ 45°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K37V4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 129 | 67 | 22 | 32 |
| K37V4-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 152 | 79.7 | 24 | 41 |
| K37V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 201 | 113 | 42 | 50 |
| K37V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 192 | 101 | 42 | 50 |
| K37V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 227 | 133.9 | 49 | 60 |
| K37V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 235 | 139 | 58 | 60 |
| K37V4-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 279 | 182 | 72 | 75 |
| K37V6-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 290 | 180 | 72 | 75 |

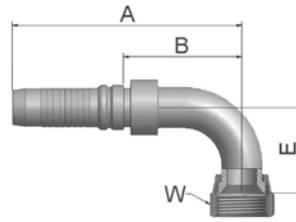
Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

39

Female JIC 37° - Swivel 90° Elbow

ISO 12151-5-SWES - DKJ 90°



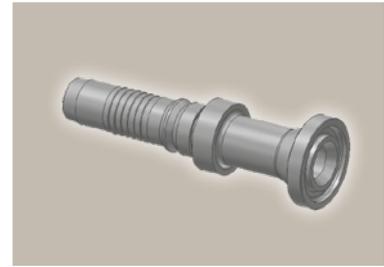
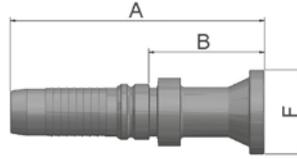
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K39V4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 1/16x12 | 125 | 63.3 | 48 | 32 |
| K39V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 5/16x12 | 125 | 63.3 | 56 | 41 |
| K39V4-16-16 | 25 | 1 | -16 | 25.4 | 1 5/16x12 | 150 | 77.7 | 56 | 41 |
| K39V4-20-16 | 25 | 1 | -16 | 25.4 | 1 5/8x12 | 150 | 77 | 62 | 50 |
| K39V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 186 | 98 | 85 | 50 |
| K39V4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 7/8x12 | 186 | 98 | 80 | 60 |
| K39V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 5/8x12 | 177 | 86 | 85 | 50 |
| K39V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 210 | 116.9 | 102 | 60 |
| K39V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 7/8x12 | 209 | 113 | 102 | 60 |
| K39V4-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 257 | 160 | 152 | 75 |
| K39V6-32-32 | 51 | 2 | -32 | 50.8 | 2 1/2x12 | 268 | 157 | 152 | 75 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

15/4A ISO 6162-1-Flange Straight

ISO 12151-3-S-L – SFL
(35.0 MPa/ 5000 psi)



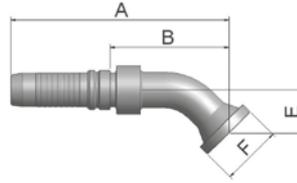
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K15V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 119 | 58 | 38 |
| K15V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 100 | 38.3 | 45 |
| K15V4-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 134.8 | 62.2 | 38 |
| K15V4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 133 | 61 | 45 |
| K4AV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 101 | 28 | 51 |
| K15V4-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 152 | 64 | 45 |
| K4AV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 160 | 72 | 51 |
| K4AV4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 126 | 38.7 | 60 |
| K15V6-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 161 | 70 | 44 |
| K4AV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 167 | 76 | 51 |
| K4AV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 165 | 74 | 60 |
| K4AV4-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 167 | 73 | 51 |
| K4AV4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 190 | 97 | 60 |
| K4AV4-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 149 | 56 | 71 |
| K4AV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 201 | 105 | 60 |
| K4AV6-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 159 | 63 | 71 |
| K4AV4-32-32 | 51 | 2 | -32 | 50.8 | 2 | 189 | 92 | 71 |
| K4AV6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 210 | 100 | 71 |

Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

17/4F ISO 6162-1-Flange 45° Elbow

ISO 12151-3 – E45S – L – SFL 45°
(35.0 MPa/ 5000 psi)



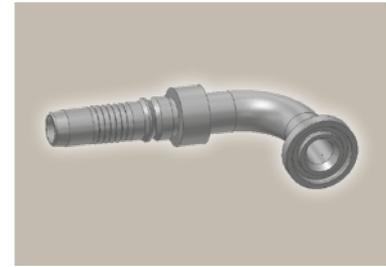
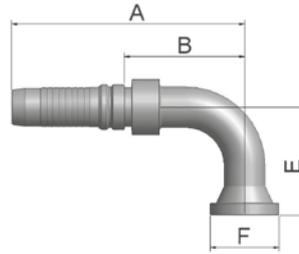
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K17V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 133 | 72 | 26 | 38 |
| K17V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 133 | 72 | 26 | 45 |
| K4FV4-20-12 | 19 | 3/4 | -12 | 19.1 | 1 1/4 | 133 | 71 | 25 | 51 |
| K17V4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 160 | 87 | 32 | 45 |
| K4FV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 160 | 87 | 32 | 51 |
| K17V4-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 198 | 109.7 | 38 | 45 |
| K4FV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 198 | 109.7 | 38 | 51 |
| K4FV4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 198 | 109.7 | 38 | 60 |
| K17V6-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 188 | 97 | 38 | 44 |
| K4FV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 188 | 97 | 38 | 51 |
| K4FV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 188 | 97 | 38 | 60 |
| K4FV4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 222 | 128.9 | 44 | 60 |
| K4FV4-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 222 | 128.9 | 44 | 71 |
| K4FV6-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 201 | 105 | 44 | 51 |
| K4FV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 221 | 125 | 44 | 60 |
| K4FV6-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 221 | 125 | 44 | 71 |
| K4FV4-32-32 | 51 | 2 | -32 | 50.8 | 2 | 269 | 171 | 62 | 71 |
| K4FV6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 280 | 169 | 62 | 71 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

19/4N ISO 6162-1-Flange 90° Elbow

ISO 12151-3-E-L – SFL 90°
(35.0 MPa/ 5000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K19V4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 125 | 63.3 | 58 | 38 |
| K19V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 125 | 63.3 | 58 | 45 |
| K19V4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 150 | 77.7 | 70 | 45 |
| K4NV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 150 | 77 | 69 | 51 |
| K19V4-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 186 | 98 | 90 | 45 |
| K4NV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 186 | 98.2 | 90 | 51 |
| K4NV4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 186 | 98 | 90 | 60 |
| K4NV4-24-20-SL110 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 186 | 98 | 110 | 60 |
| K19V6-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 177 | 86 | 90 | 44 |
| K4NV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 177 | 86 | 90 | 51 |
| K4NV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 177 | 86 | 90 | 60 |
| K4NV4-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 197 | 103 | 104 | 51 |
| K4NV4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 116.9 | 104 | 60 |
| K4NV4-24-24-SL150 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 116.9 | 150 | 60 |
| K4NV4-24-24-SL200 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 116.9 | 200 | 60 |
| K4NV4-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 210 | 116.9 | 104 | 71 |
| K4NV6-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 184 | 88 | 104 | 51 |
| K4NV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 209 | 113 | 104 | 60 |
| K4NV6-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 209 | 113 | 104 | 71 |
| K4NV4-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 227 | 130 | 138 | 60 |
| K4NV4-32-32 | 51 | 2 | -32 | 50.8 | 2 | 257 | 160.2 | 138 | 71 |
| K4NV6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 268 | 157 | 138 | 71 |

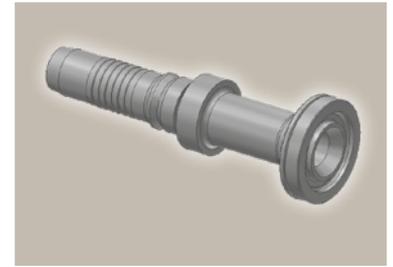
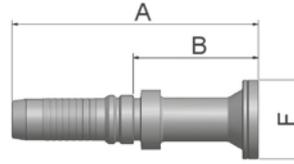
Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

6A

ISO 6162-2-Flange Straight

ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K6AV4-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 121 | 62 | 32 |
| K6AV4-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 94 | 33.8 | 41 |
| K6AV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 126 | 64.4 | 41 |
| K6AV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 100 | 38 | 48 |
| K6AV4-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 150 | 77 | 41 |
| K6AV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 148 | 75 | 48 |
| K6AV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 116 | 44 | 54 |
| K6AV4-24-16 | 25 | 1 | -16 | 25.4 | 1 1/2 | 118 | 45 | 64 |
| K6AV4-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 166 | 78 | 48 |
| K6AV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 166 | 78 | 54 |
| K6AV4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 139 | 51 | 64 |
| K6AV6-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 175 | 84 | 48 |
| K6AV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 175 | 83 | 54 |
| K6AV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 147 | 56 | 64 |
| K6AV4-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 174 | 81 | 54 |
| K6AV4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 192 | 99 | 64 |
| K6AV4-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 184 | 91 | 79 |
| K6AV6-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 185 | 89 | 54 |
| K6AV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 202 | 106 | 64 |
| K6AV6-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 194 | 98 | 79 |
| K6AV4-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 198 | 101 | 64 |
| K6AV4-32-32 | 51 | 2 | -32 | 50.8 | 2 | 212 | 115 | 79 |
| K6AV6-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 219 | 108.3 | 64 |
| K6AV6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 233 | 122 | 79 |
| K6AV6-32-40 | 63 | 2 1/2 | -40 | 63.5 | 2 | 252 | 117 | 79 |
| K6AV6-40-40 | 63 | 2 1/2 | -40 | 63.5 | 2 1/2 | 253 | 118 | 108 |
| K6AV6-48-40 | 63 | 2 1/2 | -40 | 63.5 | 3 | 250 | 115 | 132 |
| K6AV6-48-48 | 76 | 3 | -48 | 76.2 | 3 | 240 | 133 | 132 |

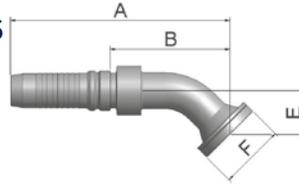
V4/V6 Series

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

6F ISO 6162-2-Flange 45° Elbow – Heavy Series

ISO 12151-3 – E45-S – SFS 45°
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|------------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K6FV4-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 123 | 63.3 | 26 | 32 |
| K6FV4-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 123 | 63.3 | 26 | 41 |
| K6FV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 133 | 72 | 26 | 41 |
| K6FV4-12-12-SL55 | 19 | 3/4 | -12 | 19.1 | 3/4 | 162 | 101 | 55 | 41 |
| K6FV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 133 | 71.3 | 26 | 48 |
| K6FV4-16-12-SL55 | 19 | 3/4 | -12 | 19.1 | 1 | 162 | 101 | 55 | 48 |
| K6FV4-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 155 | 78 | 32 | 41 |
| K6FV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 160 | 87 | 32 | 48 |
| K6FV4-16-16-SL55 | 25 | 1 | -16 | 25.4 | 1 | 183 | 110 | 55 | 48 |
| K6FV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 161 | 88.7 | 32 | 54 |
| K6FV4-20-16-SL55 | 25 | 1 | -16 | 25.4 | 1 1/4 | 184 | 112 | 55 | 54 |
| K6FV4-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 198 | 109.7 | 38 | 48 |
| K6FV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 198 | 109.7 | 38 | 54 |
| K6FV4-20-20-SL60 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 220 | 132 | 60 | 54 |
| K6FV4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 198 | 109.7 | 38 | 64 |
| K6FV4-24-20-SL60 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 220 | 132 | 60 | 64 |
| K6FV6-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 188 | 97 | 38 | 48 |
| K6FV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 189 | 97.3 | 38 | 54 |
| K6FV6-20-20-SL60 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 210 | 119 | 60 | 54 |
| K6FV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 189 | 97.3 | 38 | 64 |
| K6FV4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 222 | 128.9 | 44 | 64 |
| K6FV4-24-24-SL70 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 248 | 155 | 70 | 64 |
| K6FV4-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 222 | 128.9 | 44 | 79 |
| K6FV6-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 209 | 113.3 | 44 | 54 |
| K6FV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 221 | 125.3 | 44 | 64 |
| K6FV6-24-24-SL70 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 247 | 151 | 70 | 64 |
| K6FV6-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 221 | 125.3 | 44 | 79 |
| K6FV4-32-32 | 51 | 2 | -32 | 50.8 | 2 | 263 | 166 | 56 | 79 |
| K6FV4-32-32-SL70 | 51 | 2 | -32 | 50.8 | 2 | 277 | 180 | 70 | 79 |
| K6FV6-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 260 | 149.3 | 56 | 64 |
| K6FV6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 274 | 163.3 | 56 | 79 |

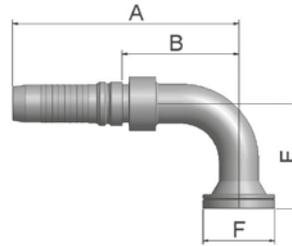
Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

6N

ISO 6162-2-Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
(42.0 MPa/ 6000 psi)



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K6NV4-8-10 | 16 | 5/8 | -10 | 15.9 | 1/2 | 111 | 51 | 54 | 32 |
| K6NV4-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 111 | 50.3 | 54 | 41 |
| K6NV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 125 | 63.3 | 58 | 41 |
| K6NV4-12-12-SL100 | 19 | 3/4 | -12 | 19.1 | 3/4 | 125 | 63 | 100 | 41 |
| K6NV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 125 | 63.3 | 58 | 48 |
| K6NV4-16-12-SL100 | 19 | 3/4 | -12 | 19.1 | 1 | 125 | 63 | 100 | 48 |
| K6NV4-12-16 | 25 | 1 | -16 | 25.4 | 3/4 | 140 | 67 | 70 | 41 |
| K6NV4-12-16-SL55 | 25 | 1 | -16 | 25.4 | 3/4 | 140 | 67 | 55 | 41 |
| K6NV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 150 | 77.7 | 70 | 48 |
| K6NV4-16-16-SL100 | 25 | 1 | -16 | 25.4 | 1 | 150 | 77 | 100 | 48 |
| K6NV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 154 | 81 | 70 | 54 |
| K6NV4-20-16-SL115 | 25 | 1 | -16 | 25.4 | 1 1/4 | 154 | 81 | 115 | 54 |
| K6NV4-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 186 | 98.7 | 90 | 48 |
| K6NV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 186 | 98.7 | 90 | 54 |
| K6NV4-20-20-SL120 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 186 | 98 | 120 | 54 |
| K6NV4-20-20-SL330 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 186 | 98 | 330 | 54 |
| K6NV4-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 186 | 98.7 | 90 | 64 |
| K6NV4-24-20-SL135 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 186 | 98 | 135 | 64 |
| K6NV6-16-20 | 31 | 1 1/4 | -20 | 31.8 | 1 | 177 | 86 | 90 | 48 |
| K6NV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 177 | 86.3 | 90 | 54 |
| K6NV6-20-20-SL120 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 177 | 86 | 120 | 54 |
| K6NV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 177 | 86.3 | 90 | 64 |
| K6NV4-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 197 | 103.9 | 104 | 54 |
| K6NV4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 116.9 | 104 | 64 |
| K6NV4-24-24-SL140 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 117 | 140 | 64 |
| K6NV4-24-24-SL160 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 117 | 160 | 64 |
| K6NV4-24-24-SL200 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 117 | 200 | 64 |
| K6NV4-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 210 | 116.9 | 104 | 79 |
| K6NV6-20-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/4 | 192 | 96.3 | 104 | 54 |
| K6NV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 210 | 113.3 | 104 | 64 |
| K6NV6-32-24 | 38 | 1 1/2 | -24 | 38.1 | 2 | 209 | 113.3 | 104 | 79 |
| K6NV4-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 221 | 124 | 104 | 64 |
| K6NV4-32-32 | 51 | 2 | -32 | 50.8 | 2 | 257 | 160 | 138 | 79 |
| K6NV6-24-32 | 51 | 2 | -32 | 50.8 | 1 1/2 | 236 | 125.3 | 104 | 64 |
| K6NV6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 268 | 157.3 | 138 | 79 |

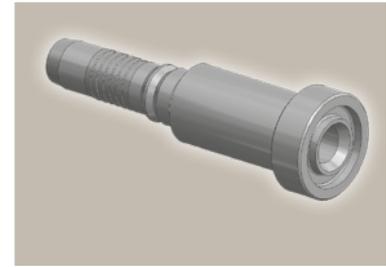
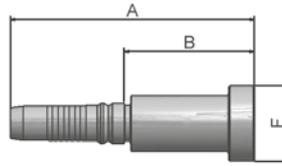
V4/V6 Series

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

8A Flange – Straight

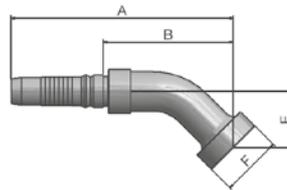
8000 psi



| Part Number |  Hose I.D. | | | |  Flange | A | B | F |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------|-----|----|----|
| | DN | Inch | Size | mm | Inch | mm | mm | mm |
| K8AV4-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 130 | 71 | 41 |
| K8AV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 132 | 71 | 41 |
| K8AV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 143 | 82 | 48 |
| K8AV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 148 | 75 | 48 |
| K8AV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 111 | 39 | 54 |
| K8AV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 190 | 88 | 54 |

8F Flange – 45° Elbow

8000 psi



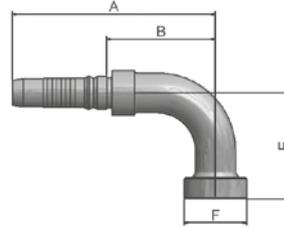
| Part Number |  Hose I.D. | | | |  Flange | A | B | E | F |
|-------------|--------------------------------------------------------------------------------------------------|-------|------|------|-----------------------------------------------------------------------------------------------|-----|-----|----|----|
| | DN | Inch | Size | mm | Inch | mm | mm | mm | mm |
| K8FV4-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 123 | 64 | 26 | 41 |
| K8FV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 138 | 76 | 26 | 41 |
| K8FV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 143 | 81 | 32 | 48 |
| K8FV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 178 | 105 | 35 | 48 |
| K8FV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 178 | 105 | 35 | 54 |
| K8FV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 194 | 103 | 38 | 54 |

Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

8N Flange – 90° Elbow

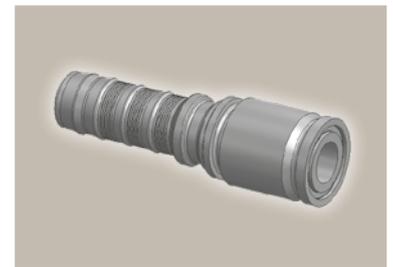
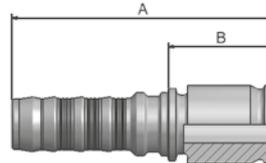
8000 psi



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| K8NV4-12-10 | 16 | 5/8 | -10 | 15.9 | 3/4 | 111 | 51 | 58 | 41 |
| K8NV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 133 | 71 | 70 | 41 |
| K8NV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 133 | 71 | 70 | 48 |
| K8NV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 170 | 97 | 75 | 48 |
| K8NV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 170 | 97 | 90 | 54 |
| K8NV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 182 | 91 | 90 | 54 |

X5 Flange – Straight

Full flange system for
ISO 6162-1 or ISO 6162-2



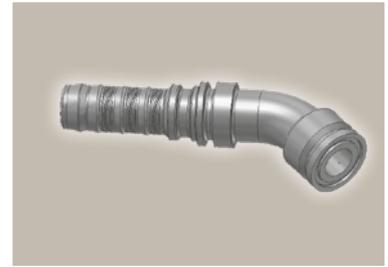
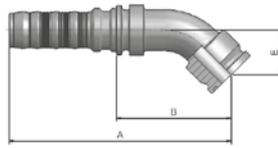
| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|
| | DN | Inch | Size | mm | | | |
| KX5V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 152.3 | 61.3 |
| KX5V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 159.3 | 63.3 |
| KX5V6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 188 | 78 |
| KX5V6-40-40 | 63 | 2 1/2 | -40 | 63.5 | 2 1/2 | 233 | 83 |
| KX5V6-48-40 | 63 | 2 1/2 | -40 | 63.5 | 3 | 233 | 98 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | |
|-----------|-----------------------------------------------------------------------------|
| V4 | H31 H31TC H31ST R42 R42TC R42ST R35 R35TC RS35TC R50TC H29 H29TC H29ST FA35 |
| V6 | R35 R35TC RD35TC RS35TC R42 R42ST R42TC R50TC FA35 CEM69TC |

X7 Flange – 45° Elbow

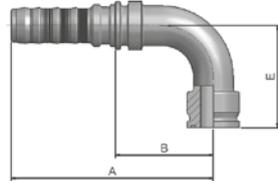
Full flange system for
ISO 6162-1 or ISO 6162-2



| Part Number |  Hose I.D. | | | |  Flange | A | B | E |
|-------------|------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------|-----|-------|----|
| | DN | Inch | Size | mm | Inch | mm | mm | mm |
| KX7V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 190 | 99 | 39 |
| KX7V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 221 | 125 | 44 |
| KX7V6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 275 | 164.5 | 57 |

X9 Flange – 90° Elbow

Full flange system for
ISO 6162-1 or ISO 6162-2

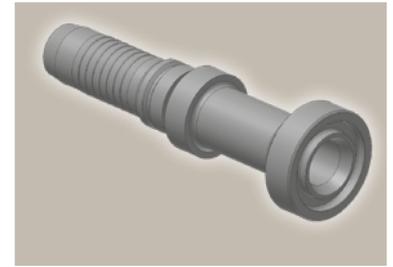
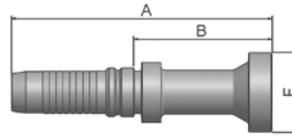


| Part Number |  Hose I.D. | | | |  Flange | A | B | E |
|-------------|--------------------------------------------------------------------------------------------------|-------|------|------|-----------------------------------------------------------------------------------------------|-------|------|-----|
| | DN | Inch | Size | mm | Inch | mm | mm | mm |
| KX9V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 176.8 | 85.5 | 90 |
| KX9V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 209.3 | 113 | 104 |
| KX9V6-32-32 | 51 | 2 | -32 | 50.8 | 2 | 268 | 157 | 138 |

Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

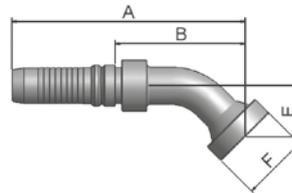
| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

XA Caterpillar® Flange Straight



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| KXAV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 132 | 71 | 41 |
| KXAV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 144 | 82 | 48 |
| KXAV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 155 | 82 | 48 |
| KXAV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 160 | 88 | 54 |
| KXAV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 181 | 90 | 54 |
| KXAV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 188 | 97 | 64 |
| KXAV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 207 | 111 | 64 |

XF Caterpillar® Flange 45° Elbow

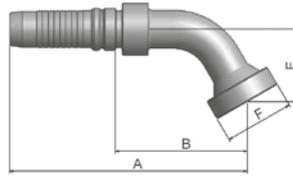


| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KXFV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 138 | 76 | 31 | 41 |
| KXFV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 164 | 91 | 36 | 48 |
| KXFV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 164 | 92 | 35 | 54 |
| KXFV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 187 | 96 | 37 | 54 |
| KXFV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 187 | 96 | 37 | 64 |
| KXFV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 216 | 120 | 39 | 64 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

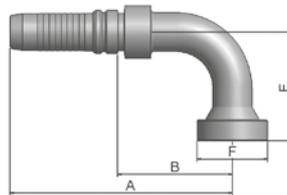
| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

XG Caterpillar® Flange
60° Elbow



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KXGV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 152 | 91 | 42 | 48 |
| KXGV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 182 | 109 | 50 | 48 |
| KXGV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 184 | 112 | 50 | 54 |
| KXGV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 206 | 115 | 55 | 54 |
| KXGV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 208 | 117 | 52 | 64 |
| KXGV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 266 | 170 | 52 | 64 |

XN Caterpillar® Flange
90° Elbow



| Part Number | Hose I.D. | | | | Flange Inch | A mm | B mm | E mm | F mm |
|-------------|-----------|-------|------|------|----------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KXNV4-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4 | 125 | 63 | 63 | 41 |
| KXNV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 | 125 | 63 | 62 | 48 |
| KXNV4-16-16 | 25 | 1 | -16 | 25.4 | 1 | 150 | 77 | 74 | 48 |
| KXNV4-20-16 | 25 | 1 | -16 | 25.4 | 1 1/4 | 154 | 81 | 74 | 54 |
| KXNV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/4 | 177 | 86 | 77 | 54 |
| KXNV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 1 1/2 | 177 | 86 | 77 | 64 |
| KXNV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 1 1/2 | 209 | 113 | 106 | 64 |

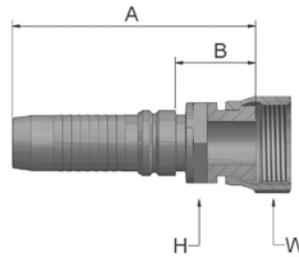
Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

JC

Female ORFS Swivel – Straight Short

ISO 12151-1 – SWSA
SAE J516 – ORFS

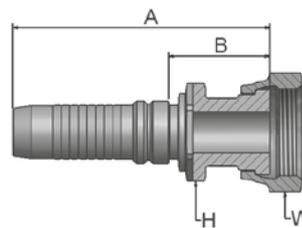


| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KJCV4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 93 | 31.3 | 30 | 36 |
| KJCV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 93 | 31 | 36 | 41 |
| KJCV4-12-16 | 25 | 1 | -16 | 25.4 | 1 3/16x12 | 101 | 29 | 36 | 36 |
| KJCV4-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 108 | 36 | 36 | 41 |
| KJCV4-20-16 | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 120 | 47 | 41 | 50 |
| KJCV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 127 | 39 | 46 | 50 |
| KJCV6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 132 | 41 | 46 | 50 |
| KJCV6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 2x12 | 133 | 42 | 50 | 60 |
| KJCV4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 131 | 37.9 | 50 | 60 |
| KJCV6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 140 | 44 | 50 | 60 |

JS

ORFS Swivel Female (Long)

ISO 12151-1-SWSB
SAE J516 – ORFS



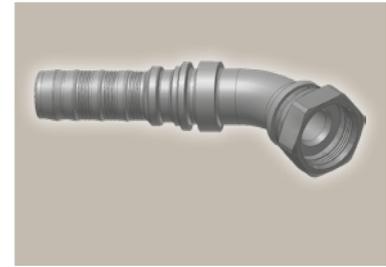
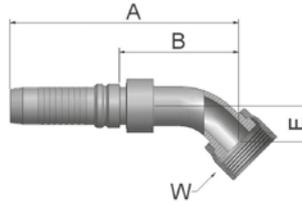
| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KJSV4-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 121 | 49 | 36 | 41 |
| KJSV4-20-16 | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 120 | 47.7 | 41 | 50 |
| KJSV4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 137 | 49.7 | 41 | 50 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

J7 Female ORFS – Swivel 45° Elbow

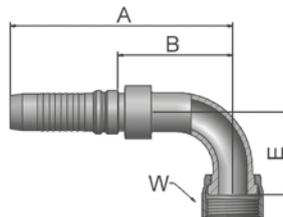
ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KJ7V4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 128 | 66.3 | 21 | 36 |
| KJ7V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 131 | 70 | 24 | 41 |
| KJ7V4-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 152 | 79 | 24 | 41 |
| KJ7V4-20-16 | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 154 | 81 | 26 | 50 |
| KJ7V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 189 | 101.7 | 30 | 50 |
| KJ7V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 179 | 87.8 | 33 | 50 |
| KJ7V6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 2x12 | 190 | 99 | 40 | 60 |
| KJ7V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 218 | 124.9 | 40 | 60 |
| KJ7V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 216 | 120 | 40 | 60 |

J9 Female ORFS – Swivel 90° Elbow – Short Drop

ISO 12151-1 – SWES
SAE J516 – ORFS 90°



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | E mm | W mm |
|-------------|-----------|-------|------|------|---------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KJ9V4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 125 | 63.3 | 48 | 36 |
| KJ9V4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 125 | 63 | 56 | 41 |
| KJ9V4-16-16 | 25 | 1 | -16 | 25.4 | 1 7/16x12 | 150 | 77.7 | 56 | 41 |
| KJ9V4-20-16 | 25 | 1 | -16 | 25.4 | 1 11/16x12 | 150 | 77 | 64 | 50 |
| KJ9V4-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 186 | 98 | 69 | 50 |
| KJ9V6-20-20 | 31 | 1 1/4 | -20 | 31.8 | 1 11/16x12 | 177 | 86 | 79 | 50 |
| KJ9V6-24-20 | 31 | 1 1/4 | -20 | 31.8 | 2x12 | 177 | 86 | 70 | 60 |
| KJ9V4-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 210 | 116.9 | 82 | 60 |
| KJ9V6-24-24 | 38 | 1 1/2 | -24 | 38.1 | 2x12 | 202 | 106 | 87 | 60 |

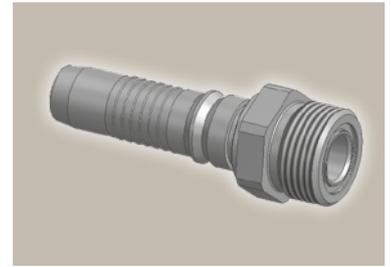
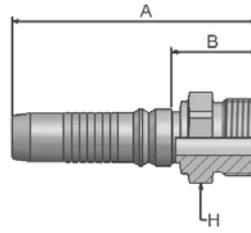
Approved **fitting series** for **hose types**, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

JM

ORFS Male

ISO 12151-1-S – SAE J516



| Part Number | Hose I.D. | | | | Thread UNF | A mm | B mm | H mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| KJMV4-12-12 | 19 | 3/4 | -12 | 19.1 | 1 3/16x12 | 95 | 33.3 | 32 |
| KJMV4-16-12 | 19 | 3/4 | -12 | 19.1 | 1 7/16x12 | 98.7 | 37 | 41 |

Approved **fitting series** for hose types, depending on size: Also available in stainless steel. Details can be found in CAT 4400.1/UK

| | | | | | | | | | | | | | | |
|-----------|-----|-------|--------|--------|-------|-------|-------|-------|--------|---------|-----|-------|-------|------|
| V4 | H31 | H31TC | H31ST | R42 | R42TC | R42ST | R35 | R35TC | RS35TC | R50TC | H29 | H29TC | H29ST | FA35 |
| V6 | R35 | R35TC | RD35TC | RS35TC | R42 | R42ST | R42TC | R50TC | FA35 | CEM69TC | | | | |

Shell

Page Dg-1

V5

Dg-1



**Interlock
In-/Outside Skive**
R56TC Hose

DIN – Metric

Page Dg-2 – Dg-3

C9

Dg-2



**Female Metric 24° – Swivel
Heavy Series with O-Ring
Straight**
ISO 12151-2-SWS-S – DKOS

0C

Dg-2



**Female Metric 24° – Swivel
Heavy Series with O-Ring
45° Elbow**
ISO 12151-2 – SWE-S – DKOS 45°

1C

Dg-3

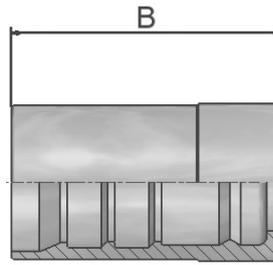


**Female Metric 24° – Swivel
Heavy Series with O-Ring
90° Elbow**
ISO 12151-2-SWE-S – DKOS 90°

V5

Interlock In-/Outside Skive

R56TC Hose



Only for use with
adjustable crimpers.

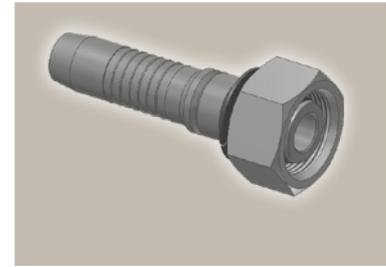
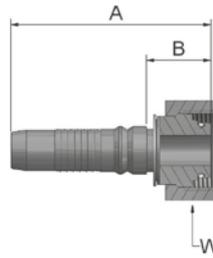
| Part Number |  Hose I.D. | | | | B mm |
|-------------|------------------------------------------------------------------------------------------------|------|------|------|---------|
| | DN | Inch | Size | mm | |
| 100V5-6 | 10 | 3/8 | -6 | 9.5 | 47 |
| 100V5-8 | 12 | 1/2 | -8 | 12.7 | 53 |

Approved **fitting series** for hose types:



C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS

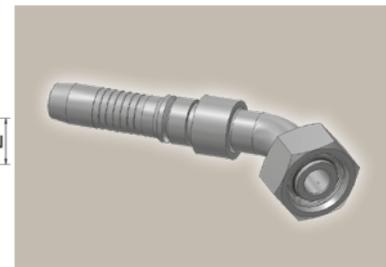
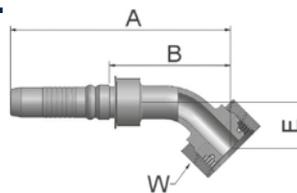


| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KC9V5-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 69 | 23 | 27 |
| KC9V5-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 79 | 26 | 30 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

OC Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE -S – DKOS 45°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| KOCV5-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 99 | 50 | 20 | 27 |
| KOCV5-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 112 | 60 | 24 | 30 |

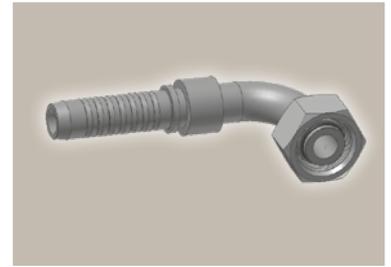
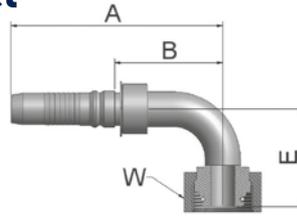
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

V5 R56TC

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | E mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | | |
| K1CV5-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 88 | 39 | 37 | 27 |
| K1CV5-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 101 | 48 | 45 | 30 |

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:



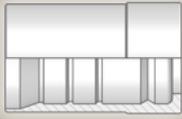
Shell

Page Dh-1

100WB

Dh-1

**Interlock
In-/Outside Skive**
BPK Hose



DIN – Metric

Page Dh-2

C9

Dh-2

**Female Metric 24° – Swivel
Heavy Series with O-Ring
Straight**
ISO 12151-2-SWS-S – DKOS



BSP

Page Dh-3

92

Dh-3

**Female BSP Parallel Pipe
Swivel – Straight (60° Cone)**
BS5200-A – DKR



SAE

Page Dh-4

01

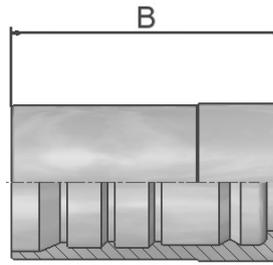
Dh-4

**Male NPTF Pipe
Rigid – Straight**
SAE J476A / J516 – AGN



100WB Interlock In-/Outside Skive

BPK Hose



Only for use with
adjustable crimpers.

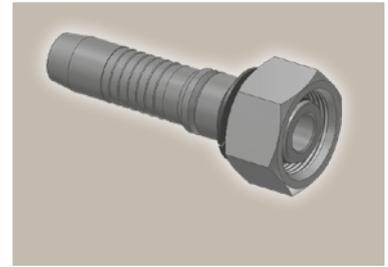
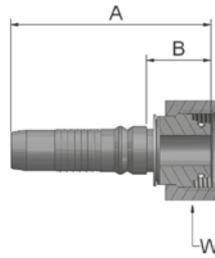
| Part Number | Hose I.D. | | | | B mm |
|-------------|---------------|------|------|------|---------|
| | DN | Inch | Size | mm | |
| 100WB-6 | 10 | 3/8 | -6 | 9.5 | 47.0 |
| 100WB-8 | 12 | 1/2 | -8 | 12.7 | 52.5 |
| 100WB-12 | 19 | 3/4 | -12 | 19.1 | 61.0 |
| 100WB-16 | 25 | 1 | -16 | 25.4 | 74.5 |

Approved **fitting series** for hose types:



C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS



| Part Number | Hose I.D. | | | | Thread metric | Tube O.D. mm | A mm | B mm | W mm |
|-------------|-----------|------|------|------|------------------|--------------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | | |
| KC9WB-14-6 | 10 | 3/8 | -6 | 9.5 | M22x1.5 | 14 | 72 | 23 | 27 |
| KC9WB-16-8 | 12 | 1/2 | -8 | 12.7 | M24x1.5 | 16 | 85 | 32 | 30 |
| KC9WB-25-12 | 19 | 3/4 | -12 | 19.1 | M36x2 | 25 | 95 | 34 | 46 |
| KC9WB-30-16 | 25 | 1 | -16 | 25.4 | M42x2 | 30 | 108 | 36 | 50 |

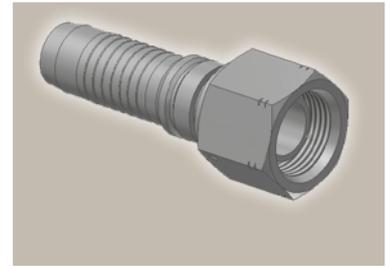
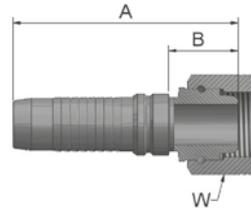
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types:

WB BPK

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

BS5200-A – DKR



| Part Number | Hose I.D. | | | | Thread BSP | A mm | B mm | W mm |
|-------------|-----------|------|------|------|---------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K92WB-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8x19 | 72 | 23 | 22 |
| K92WB-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2x14 | 79 | 26 | 27 |

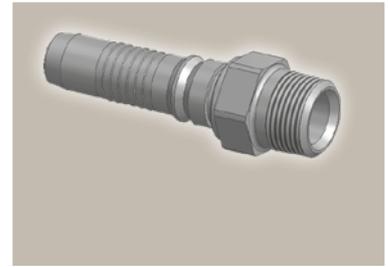
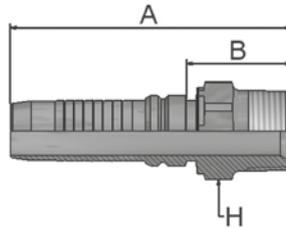
Approved **fitting series** for hose types:



01

**Male NPTF Pipe
Rigid – Straight**

SAE J476A / J516 – AGN



| Part Number | Hose I.D. | | | | Thread NPTF | A mm | B mm | H mm |
|-------------|-----------|------|------|------|----------------|---------|---------|---------|
| | DN | Inch | Size | mm | | | | |
| K01WB-6-6 | 10 | 3/8 | -6 | 9.5 | 3/8-18 | 77 | 28 | 19 |
| K01WB-8-8 | 12 | 1/2 | -8 | 12.7 | 1/2-14 | 90 | 37 | 22 |
| K01WB-12-12 | 19 | 3/4 | -12 | 19.1 | 3/4-14 | 98 | 36 | 30 |
| K01WB-16-16 | 25 | 1 | -16 | 25.4 | 1-11 1/2 | 114 | 41 | 36 |

Approved **fitting series** for hose types:

WB BPK