



aerospace
climate control
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filtration
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hydraulics
pneumatics
process control
sealing & shielding



Thermoplastic Hoses for Ultra High Pressure

Catalogue 4462 Global Edition



WARNING

The products described in this catalog can expose you to chemicals including Carbon black extracts, Lead, Titanium Dioxide, Nickel compounds, Chlorophene, Arsenic compounds, Tetrafluoroethylene and Tetrabromobisphenol A which are known to the State of California to cause cancer, and Lead, Arsenic compounds, Bisphenol A which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ENGINEERING YOUR SUCCESS.

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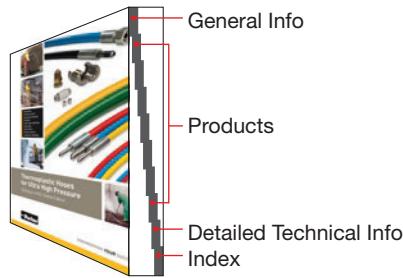
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The content contained in this catalogue has been compiled with the greatest care and corresponds to the information currently available to us.

However, we would like to point out that we reserve the right to make technical changes and we kindly request you to contact us should you have any special questions.

How to use the catalogue

Overall structure of the catalogue:



Hoses with safety factor 2,5:1
2440D / 2440N - Ultra-high pressure hose

CONSTRUCTION
Core tube : Polyoxymethylene; DN 10-25: Polyamide
Pressure reinforcement : Four spiral layers of maximum tensile steel wire
Cover : Polyamide
Standard colour : DN 3-8: blue; DN 10-25: black

TEMPERATURE RANGE -10°C up to +70°C

#	DN	size mm	size inch	mm	MPa	psi	MPa	psi	mm	kg/m	
2440D-02V32	3	-05	3/8	10.4	207	30,000	518	75,000	100	0.12	
2440D-025V32	4	-05	4.0	5/32	220	31,900	559	79,750	130	0.21	
2440D-03V32	5	-03	4.8	3/16	180	26,100	450	65,250	130	0.28	
2440D-04V32	6	-04	6.4	1/4	164	23,780	419	59,450	155	0.33	
2440D-05V32	8	-05	8.1	5/16	15.1	150	21,750	375	54,370	175	0.44
2440N-06V30	10	-05	9.5	3/8	19.4	140	20,300	350	50,750	190	0.73
2440N-08V30	12	-08	12.7	1/2	22.6	132	18,850	325	47,125	200	0.94
2440N-10V30	20	-12	19.8	3/4	30.0	100	14,500	250	36,250	250	1.39
2440N-16V30	25	-16	25.0	1	37.6	90	13,050	225	32,025	300	2.00

NOTES -

Parker

C-36 Catalogue 4462 Global Edition

Hose data is always colored in blue



Chapter selector

if you know the chapter you are looking for
– this is the quickest way to get there

c

Shows the current chapter

1AYLX – Type "M" female swivel

MATERIAL High strength carbon steel, zinc plated

Hoses with safety factor 2.5x
GAYLX / 1AYLX

#	DN size mm inch	A	B	J	Nipple ID	Female OD	Safety Factor 2.5x1
1AYLX-0-02	3 -02 3.0 1/8	9/16 -18 UNF	48	26	22	207	30,000 1.5 9.8
1AYLX-0-05	4 -025 4.0 5/32	9/16 -18 UNF	64	35	22	207	30,000 1.5 9.8
1AYLX-0-03	5 -03 4.8 3/16	9/16 -18 UNF	65	26	22	229	31,900 1.4 14.6
1AYLX-0-04	6 -04 5.6 1/4	9/16 -18 UNF	65	29	22	180	26,100 1.4 15.3
1AYLX-8-05	8 -05 7.9 5/16	3/4 -16UNF	74	30	22	154	23,750 3.9 17.0
1AYLX-8-06	10 -06 9.5 3/8	3/4 -16UNF	70	25	27	150	21,750 3.7 21.0
1AYLX-11-08	12 -08 12.7 1/2	1 -12 UNF	80	27	32	140	20,300 5.8 26.9
1AYLX-18-12	20 -12 19.0 3/4	1 5/16 -12 UNF	82	29	41	160	18,850 6.7 30.7

6AYLX / 1AYLX – Type "M" female swivel

MATERIAL Stainless steel

Category selector

– superordinates chapters
into product groups

#	DN size mm inch	A	B	J	Nipple ID	Female OD	
6AYLX-0-2AC	4 -025 4.0 5/32	9/16 -18 UNF	64	33	17	220	31,900 22 ??
1AYLX-0-03C	5 -03 4.8 3/16	9/16 -18 UNF	67	29	22	180	26,100 1.4 15.3
1AYLX-0-04C	6 -04 5.6 1/4	9/16 -18 UNF	61	29	22	154	23,750 2.9 17.0
1AYLX-8-05C	8 -05 7.9 5/16	3/4 -16 UNF	70	31	27	150	21,750 3.7 21.0
1AYLX-8-06C	10 -06 9.5 3/8	3/4 -16 UNF	70	25	27	140	20,300 5.8 26.9
1AYLX-11-08C	12 -08 12.7 1/2	1 -12 UNF	80	27	32	130	18,850 6.7 30.7
1AYLX-16-12C4462	20 -12 19.0 3/4	1 5/16 -12 UNF	82	29	41	100	14,500 12.7 38.5
6AYLX-16-16C	25 -16 25.4 1	1 5/16 -12 UNF	100	47	38	90	13,050 17.2 45.3

Parker

Part number system

Hoses



2440 N - 16 V91

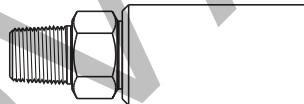
Hose type

Core tube material

Hose I.D.
in 1/16"

Design variation

Fittings



6 0 1 LX - 8 - 8 C

Fitting
1 = Crimp-on fitting
2 = Field attachable fitting
6 = Special fitting

Connec-
tion code

Parker
fitting
series

Connec-
tion size
thread/
tube

Hose inner
diameter
(Dash size)

Material
• without indication:
steel
• C4462:
Nipple: Duplex 1.4462
• C:
Stainless Steel
AISI 316 / AISI 316Ti

Explanation of symbols

Symbol	Description
#	Part number
(O)	Nominal inner diameter
(O)	Nominal outer diameter
(circle with arrow)	Working pressure
(book icon)	Burst pressure
(angle with asterisk)	Bend radius
(scale icon)	Weight
(square with minus)	Fittings
~~~~~	Thread size
(H), (J)	Wrench size
(rectangle with arrows)	Thickness

## User Manual for the Application of Hose Assemblies for High-Pressure Water Jet Machines

This User Manual has been prepared according to the requirements of EN 1829-2: 2008 High-Pressure Water Jet machines – Safety Requirements – Part 2: Hoses, Hose Lines and Connectors. It contains instructions on the proper use of hose assemblies made by Parker Hannifin GmbH, Polyflex Division, for high pressure water-jetting applications. Never use hose assemblies without thoroughly reading and understanding this User Manual. Any additional safety requirements issued by machine manufacturers, trade associations etc. must be complied with. We recommend wearing protective clothing.

1. Hazard notice
2. Description
3. Marking
4. Assembly and installation, proper use
5. Storage and utilization time of hose assemblies
6. Maintenance, repair, inspection, periodic pressure tests

### 1. Hazard notice

#### Hazards due to escaping media

- Media escaping at high pressure can cause personal injury and property damage.
- The escape of flammable media can cause fire.
- The escape of toxic media can cause intoxication if these are inhaled or ingested.

#### Hazards because of whipping hose assemblies

- If after break of the hose assembly the pressure is not immediately reduced to zero, the hose starts whipping, which may cause personal injury or property damage.

#### Hazards due to change in length of the hose assembly

- In the event of a sudden pressure change in the hose assembly, its length may change by + -2%. This may lead to the operators losing their safe foothold.

#### Hazards due to incorrect behavior of operator

- Hazards may arise from the use of unsuitable substances or components by the operator, especially in case the application limits defined by the manufacturer are exceeded (e.g. too high pressure, too high tensile loads).

### 2. Description

The hose assemblies are made from high-pressure hose and the corresponding fittings by Parker Polyflex and the company's trained and certified distributors in compliance with Parker assembly instructions. They are pressure tested after completion. Upon customer's request, the hose assemblies can be equipped with protective sleeves or other safety equipment such as containment grips.

### 3. Marking

- The hose bears a factory marking specifying the manufacturer, the maximum working pressure, the part number, nominal size, batch number and the date of manufacture (quarter/year). The marking may include additional information.
- Protective sleeve has no marking as a standard.
- On its crimping shell or marking sleeve, the hose assembly bears a marking specifying the manufacturer, the maximum working pressure, the month and year of manufacture and the standard "EN 1829-2".

The working pressures of both hoses and fittings are limited. In rare cases, fittings with a lower working pressure than the hose may be used. In this case the hose assembly bears an additional warning. For the application of the hose assembly, it is not the pressure stated on the hose but the pressure on the crimping shell and/or marking sleeve that is relevant.

### 4. Assembly and installation, proper use

#### Assembly and installation

To ensure the proper function of hose assemblies and in order not to shorten their life by additional strain, the following instructions need to be followed:

- The maximum working pressure shall not be exceeded.
- The hose shall not be bent to less than its minimum bend radius.
- Do not kink or twist hose assemblies. Especially when long hose assemblies are routed, loops may form which can lead to kinks in the hose when pulled. Parker manufactures special fittings (Polyflex-Lok) which minimize this problem.
- Under pressure, any hose may become shorter or longer. Change in length of Parker hoses is in the range of approx. 2%.
- Before installing a hose assembly, make a visual inspection of the following:
  - o The working pressure of the hose assembly corresponds to the pressure of the pump.
  - o The hose cover does not show any damage.
  - o The fittings do not show any signs of corrosion.
  - o Threads and sealing faces are not damaged or dirty.
  - o O-rings are available and not damaged.
- Make sure that the connecting thread of the fitting matches its counter-piece.
- Do not remove protective caps until immediately prior to assembly.
- When mounting the fitting, slightly grease the threads of the fitting and the adapter to prevent cold welding (seizing).

When putting the hose assembly into operation, slowly build up the pressure and check the assemblies for leaks.

#### Proper use

**Operating medium:** Parker High Pressure hose assemblies are designed for use with water. For information about use with other media, please contact your Parker distributor – Parker's range includes special hoses which are suitable for e.g. corrosive media.

# Thermoplastic Hoses for Ultra High Pressure User Manual for the Application of Hose Assemblies

**Temperature:** The hose assemblies are designed for safe operation at temperatures from -10 to +70°C. If you wish to operate the hose assembly beyond this range, please contact your Parker distributor. Parker's range also includes special hoses suitable for higher temperatures. If hose assemblies are operated at low temperatures, no problems should be expected with the hose assemblies themselves; however, measures should be taken to prevent the operating medium from freezing.

**Trouble-shooting:** Immediately eliminate any leakage on the connectors (refasten connectors, replace O-rings, if necessary, or rework the cone).

**Caution:** Prior to performing any work, always relieve the pressure – never work on hose assemblies while they are under pressure. Should the leakage occur in the hose (blisters in the hose cover, leaks at the relief holes of the fitting) put the hose assembly out of operation immediately.

Continued use of a leaky hose assembly exposes the operators to serious hazards.

**Special types of application:** When used in tall buildings, hose assemblies have to be supported to prevent tensile stress. If hose assemblies are used under tensile stress, this will shorten their life.

When using hose assemblies in potentially explosive atmospheres, it needs to be considered that Parker high-pressure hose assemblies are electrically conductive in general (from fitting to fitting). However, neither the protective sleeves nor the hose cover are electrically conductive.

## 5. Storage and utilization time of hose assemblies

Even if properly stored and operated at permissible loads, hose assemblies are subject to natural ageing. This limits their storage and utilization time. Improper storage, mechanical damage and excessive stress are the most frequent causes of failure.

For the storage of hose assemblies, the following instructions shall be followed:

- Store the hose assemblies in a cool and dry place with low levels of dust.
- Do not expose the hose assemblies to direct sunlight or UV radiation.
- Protect the hose assemblies from heat sources.
- Do not use any ozone-generating luminaries (fluorescent sources of light, mercury vapor lamps) or electrical devices in the immediate vicinity of hose assemblies.
- Store hose assemblies stress-free and in a horizontal position.
- When storing hose assemblies in bundles, the hose shall not be bent to less than its minimum bend radius.
- Store fittings with protective caps to prevent damage to the thread.

The maximum storage time of bulk hose is 10 years and that of completed hose assemblies is up to 2 years. If possible, storage of hose assemblies should be avoided. The natural properties of the hose materials cause a loss of compression in the fitting, which may lead to premature leakage of the fitting.

### Utilization period and replacement intervals

Parker does not limit the utilization period of a hose assembly, however it should not exceed 6 years.

Hose assemblies are used in a great variety of applications. For this reason Parker Polyflex is unable to guarantee a specific useful life of the hose assembly in a particular application.

The following guidelines may be useful:

- a) Parker Polyflex hose assemblies meet, or in most cases, exceed the requirements of DIN EN 1829-2. This standard prescribes that hose assemblies have to resist at least 20,000 cycles from zero to working pressure. This is relevant for industrial applications (e.g. cleaning of parts in the automotive industry) where hose assemblies are used on a permanent basis. In this case, no periodic pressure tests are required, but periodic visual inspections are recommended. The intervals for visual inspection and replacement must be determined by the manufacturer of the plant.
- b) In the construction industry (e.g. concrete refurbishment) and in flexible guns, hose assemblies are usually exposed to additional stress (e.g. tensile loads, mechanical damage) which may considerably reduce their useful life. Therefore the tests according to Section 6 are mandatory.

## 6. Maintenance, repair, inspection, periodic pressure tests

Prior to the first putting into operation and at least every six months:

Check the hose assemblies for their function and as to whether they can be safely used.

This inspection should be done by a skilled person, who due to professional training and experience has sufficient knowledge about hoses.

Scope of tests: visual inspection of the hose assemblies. Check whether the working pressure of the hose assembly corresponds to the actual working pressure of the application and whether the hose assembly shows any visible damage. Visible damage may include:

- Damage of the hose cover (e.g. abrasion, cuts or cracks).
- Deformation beyond the natural shape of the hose assembly in depressurized or pressurized state or during bending. This may include separation of layers, blisters, crushed or kinked hose.
- Damage or deformation of the fitting.
- Corroded fitting.
- Hose detaching from the fitting.
- Maximum storage and utilization times have been exceeded.

Daily:

– Visual inspection of the hose assemblies by the operator (see above)

Upon discovery of any visible damage, replace the hose assembly or have it approved for further use by a qualified person.

According to EN 1829-2 hose assemblies whose cover is so badly damaged that the wire reinforcement becomes visible have to be withdrawn from service. Repair of the hose cover is not allowed.

Yearly:

In addition to the visual inspection of the hose assembly, a pressure test with 1.2 x the working pressure has to be performed with this pressure being applied for two minutes. This pressure test is not required for hose assemblies in continuous use (industrial plants).

Repair of hose assemblies

Parker Polyflex advises against the repair of hose assemblies as the safety of a hose assembly that has already been in service is always reduced.

## 7. Polyflex-Lok

Polyflex-Lok is a system designed for the fast mounting of hose assemblies and/or for the connection of the hose assemblies to the pump / gun without any tools.

The system for connecting hose assemblies consists of hose assemblies (equipped with protective sleeve as a standard) with special connectors and protective caps, connection sleeves and shells.

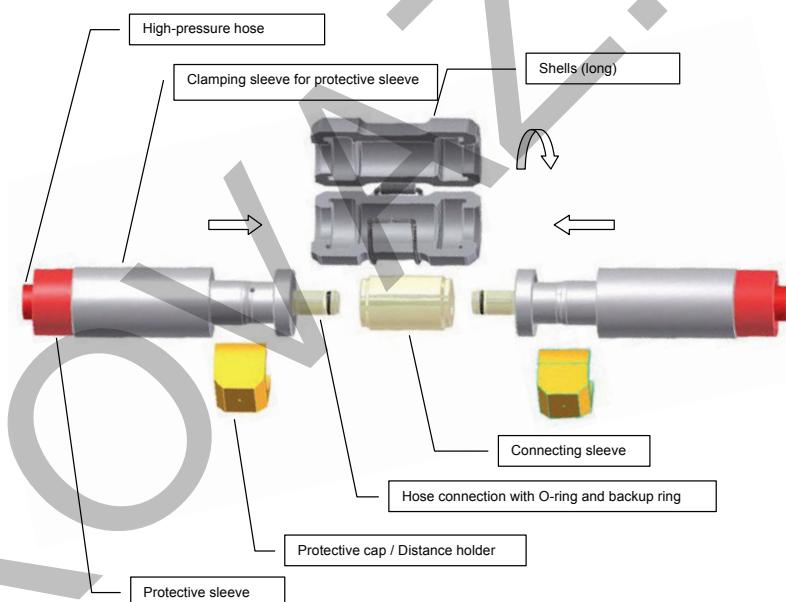
### Assembly:

Remove the protective caps from the hose connectors.

Slightly grease the hose connectors or wet them with some water and push them into the connection sleeve up to the stop. CAUTION: Make sure that all parts are perfectly clean and free from dirt and damage or deposits. Otherwise proper tightness and/or easy disassembly cannot be ensured. If necessary, clean the parts prior to assembly.

Close the shells over the connection sleeve.

Pull the hose assemblies apart (important, as otherwise the protective caps cannot be mounted) and mount the protective caps between the shells and the clamping sleeves for the protective sleeve.



**Disassembly:**

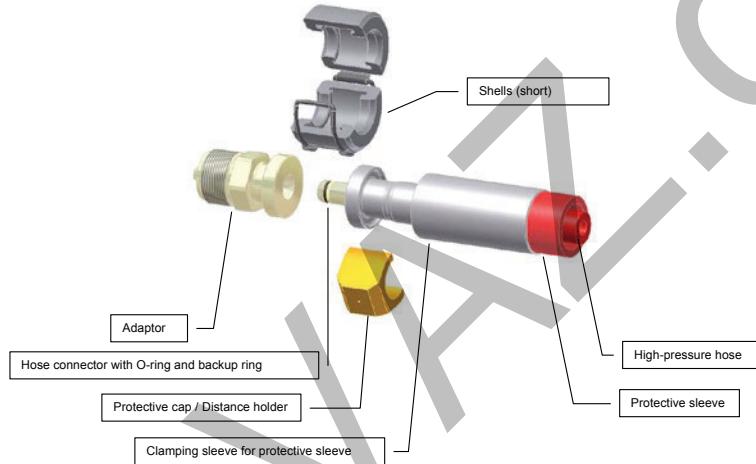
Remove the protective caps.

Push the hose assemblies together up to the stop as otherwise the shells cannot be opened.

Open the shells and remove them.

Pull the hose connectors out of the connecting sleeve and immediately place the protective caps on the hose connectors.

The Polyflex-Lok system for the connection of the hose assembly to the pump / gun is designed according to the same principle. An adapter is screwed onto the pump; a hose assembly is pushed into the adapter and fixed with shells and a cap. Here as well cleanliness is mandatory.



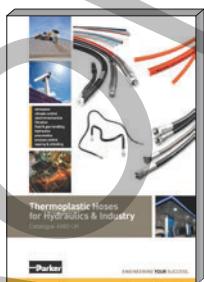
## Parker Hannifin – Polyflex Division

Parker Hannifin offers an extensive programme of systems and components for fluid technology. Parker is structured by sales offices and manufacturing divisions to guarantee optimum focus on our customers' demands and market interests at any time.

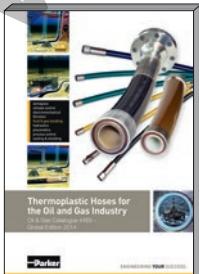
The Polyflex division, with headquarters located in Hüttenfeld, Germany, provides thermoplastic hoses and tubes. These are applied in a variety of different markets such as standard hydraulics, ultra high pressure applications, and oil & gas industry. As a market leader in many areas and with a unique product range we are pleased to assist you with all your queries.

This catalogue includes hoses for high and ultra high pressure applications. The indicated fittings are always adapted to the correspondent hose and offer optimum performance.

### Other catalogues with thermoplastic hoses



Catalogue 4460-UK



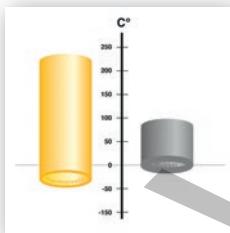
Catalogue 4465-UK

## Why use Parker thermoplastic hoses?

Parker thermoplastic hose is the right answer for many technical challenges. With unique features and performance characteristics thermoplastic hose outrivals even established alternatives. Whether the task requires extreme temperatures, pressures, robustness or special custom designs, these hoses will not disappoint you.

See below the benefits offered by our complete hose range – also products featured in other catalogs – shown in comparison to other standard hose types :

### Temperature Range



- Operating temperatures ranging from -50°C up to +230°C
- Best choice for dynamic applications even at very low temperatures
- Full working pressure even at extreme temperatures



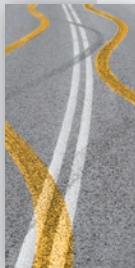
### Chemical Resistance



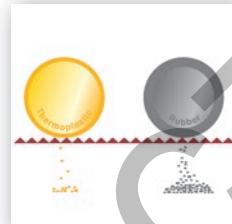
- Chemically inert, no interaction with the media
- Resistant against virtually all acids and alkalines



## Abrasion



- Outer covers to withstand extreme wear
- Superior resistance and extended service life



## UV / Ozone & Seawater Resistance



- Build for harsh and exposed installations
- Environmental influences have minimal effect on hose life



## Compact OD



- Space saving due to very small diameters
- Optimized routing and design in constricted installation spaces
- Prevent using overdimensioned hoses



## Small ID



- Only thermoplastic hoses allow small IDs down to below 2mm
- Space saving
- Offers improved technical solutions in constricted installation spaces



## Low Weight



- Major weight savings
- Energy savings as less mass needs to be moved



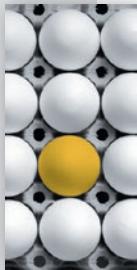
## Non-Conductive



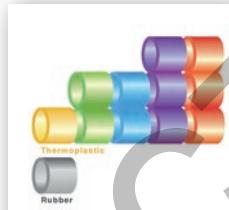
- Mandatory safety feature for applications with high voltage and high frequency
- Electrically isolating according to SAE J517



## Customization



- Multiple colors
- Twin and multiple lines
- Hose bundles
- Customer specific designs



## Preforming



- Combining the advantages of bent metal pipe with the flexibility of hose
- Reducing weight, noise and vibration compared to bent metal pipe solutions
- Preformed hoses are maintaining their full technical specifications



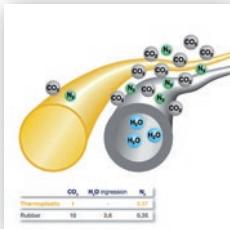
## Cleanliness



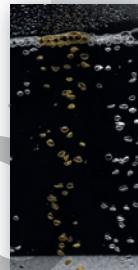
- Less abrasion and contamination inside the hose
- Reduced residue build up
- Extended lifetime for filters, valves and hydraulic systems



## Permeation Resistance



- Low gas permeation
- Reduced ingress reduced risk of media contamination



## Long Length



- Up to 5,000 m and more continuous length
- Reduced scrap of bulk hose
- Easy winching and handling offer fast deployment of long length



## Highest Pressure



- Up to 4,000 bar working pressure
- Highest technical standards and production controls assure safety



## Wide range of applications



- Standard hydraulics
- Industrial hydraulics e.g.
  - alternative energies
  - machine tools
  - injection molding
- Mobile hydraulics e.g.
  - material handling
  - construction
  - agriculture
- Automotive and truck industry
- Mini hydraulics
- Lubrication
- Chemical industry
- Process industry
- Industrial gases
- Alternative fuels
- Boats and yachts
- Pneumatics
- Life Science
- Media transfer
- Sewer Cleaning
- Water jetting
- Water blasting
- Water cutting
- Hydro testing
- Bolt tensioning
- Hydraulic jacking
- Rescue equipment
- Hydraulic control
- Chemical injection
- BOP Control
- Hydraulic lines on Subsea BOPs
- Hot lines from vessel or rig to Subsea BOP
- Hydrostatic testing
- Equipment maintenance
- Well equipment testing
- Cementing operations acc. to API 7K FSL 0
- Acidizing
- General Fluid and Gas Injection
- Mud Circulation
- Jumpers
- Flying Leads
- Electro/Hydraulic Workover
- Pipeline Testing

## Value added services

Parker Polyflex and the Parker Sales Companies offer value added services that compliment our production capabilities and product portfolio. These services are in place to meet the increasing customization and system criteria that our customers expect from a world-class supplier. The value added services detailed below are typical of the products and secondary services that we provide to our customers. If you have additional service needs that we have not detailed below please contact us. We are happy to discuss all potential solutions for your requirements.

### ParkerStore™

At Parker Hannifin, we're continually looking for ways to deliver more products, more efficiently.

The Global ParkerStore™ network enables Parker to provide:

- Prompt, efficient, professional in-store services while you wait
- Expert local services and support
- A safe, friendly and convenient shopping environment
- A greater range of parts options so you get exactly what you're looking for.



Customers trust ParkerStores to provide OEM and MRO customers with direct access to:

- Custom-made hydraulic hose assemblies and complementary products to support their applications and decrease their downtime
- Expert technical support
- Professional, personalized services, including 24/7/365 support
- The convenience, comfort and amenities of a local service provider.

## The Parker® Tracking System Enterprise (PTS)



is designed to help customers reduce vehicle or asset down-time through increases in the speed, timing and accuracy of necessary repairs. PTS provides a unique 8 digit identification code and bar code printed on a durable label for each hose assembly. PTS labels are specifically engineered to withstand harsh chemicals, temperatures, UV exposure and other challenging conditions.

- PTS captures, records and recalls unique hose assembly information – on demand
- Provides fast and accurate product identification to speed up replacement regardless of where the original assembly was made.
- Assembly can be replaced with only the 8 digit PTS ID number/bar code eliminating the need to remove hoses prior to replacement. This can provide critical machine uptime and enable more conveniently scheduled repair.
- PTS includes additional reporting tools to assist in continuous improvement programmes and preventative maintenance initiatives.

## Parker HOSE DOCTORS



are a network of independently-owned, mobile service technicians built around the commitment to identify and replace hose assemblies wherever their customers need them, with the fastest response times possible. HOSE DOCTORS® are an extension of the worldwide Parker distribution network, coupling their service commitment with Parker products – the highest quality hoses and fittings available in the market today.

## Parker Store Container Service



The ParkerStore container is a transportable workshop, providing on-site maintenance and product support for large construction projects such as roadworks, tunnels, railways, underground systems, etc. Provides an on-site product and hose replacement service. With this service on your site, you can reduce your downtime keeping your project on time and on budget!

## Tech Services

Optimises the performance of your hydraulic and pneumatic circuits

- With Parker Tech Services involved, your time to market is shorter, which saves on development costs
- The 3 year no-leak guarantee enhances your reputation and lowers your warranty costs
- More reliable operation lowers your customer's operating costs
- More efficient performance and no-leak guarantee is beneficial to the environment
- Parker worldwide coverage ensures you can use the service and save costs wherever you are



## Breadman

Lean logistics and delivery of Parker products and kits directly to the customer's assembly line, work stations or warehouse

- 100 % parts availability minimises downtime, increases production and reduces costs
- Elimination of stock checking reduces manpower and maintains production levels
- Daily delivery reduces inventory and overheads
- Electronic order processing eliminates paperwork and reduces administration costs



## Kitting

Multiple components are supplied under a single part number

- Reduced number of suppliers
- Reduced stocks and no obsolete items
- Optimized management (stock and supplies)
- Simplified and optimised order handling
- Reduced assembly costs
- Greater productivity



## Hose & Fitting Selection Database



- Always the right hose and fitting combination
- Accessories corresponding to the selected hose
- Frequent updates for new hose-fitting combinations and accessories

**Chapter A**

**General Information**

Hose selection chart by working pressure – design factor >2:1 .....	A-2
Hose selection chart by working pressure – design factor 4:1 .....	A-4
Hose fitting chart.....	A-5

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**Hose selection chart****by working pressure – design factor >2:1**

Nominal size				Working pressure MPa [psi]									
				ESH(200)	ESH250Plus(2)	2240D-TC	2248D-TC	2244N	2380N	2388N (size -04)	2380M	2388N (size -08)	2580N
DN	size	mm	inch										
3	-02	3.2	1/8			110 [15,950]							
4	-025	4.0	5/32			120 [17,400]	150 [21,750]		140 [20,300]				
5	-03	4.8	3/16			110 [15,950]	140 [20,300]						
6	-04	6.4	1/4			110 [15,950]			110 [15,950]	128 [18,560]	110 [15,950]		
8	-05	7.9	5/16				100 [14,500]		100 [14,500]		100 [14,500]		
10	-06	9.5	3/8					86 [12,470]				160 [23,200]	
12	-08	12.7	1/2	20 [2,900]	25 [3,625]			88 [12,760]			110 [15,950]	140 [20,300]	
20	-12	19.0	3/4	20 [2,900]	25 [3,625]							120 [17,400]	
25	-16	25.4	1	20 [2,900]	25 [3,625]								
32	-20	31.8	1 1/4	20 [2,900]	25 [3,625]								
Fitting series				EH/ES / EJ	EH/ES / EJ	TX	TX	KX / LX	KY / 8X	KY	KX	BS	BL
Page		C-2	C-5	C-8	C-9	C-15	C-18	C-19	C-24	C-26	C-29		

Working pressure MPa [psi]																
2440D	2440N (-06 to -16)	2440D-TG	2448D-TG	2640D	2640N (-08 to -16)	2648N	2740D	2741D	2748D	2748D 2 nd COVER	2749D	2840D	2841D	2848D	2849D	
LX	LX	LX	JX / 2X / 5X	JX / CX	2X / HX	2X / HX	2X / HX	2X / HX	2X / HX	2X / HX	2X / HX	2X / WX	2X / WX	2X / WX	WX	
207 [30,000]	207 [30,000]				300 [43,500]											
220 [31,900]	220 [31,900]	301 [43,640]	280 [40,600]			280 [40,600]										
180 [26,100]	180 [26,100]		250 [36,250]									301 [43,645]	400 [58,000]			
164 [23,780]	164 [23,780]		250 [36,250]				250 [36,250]	250 [36,250]	280 [40,600]	280 [40,600]	301 [43,645]	300 [43,500]	300 [43,500]	320 [46,400]	380 [55,000]	
150 [21,750]	150 [21,750]		210 [30,450]													
140 [20,300]																
140 [20,300]			180 [26,100]			200 [29,000]			250 [36,250]			250 [36,250]			300 [43,500]	
100 [14,500]				140 [20,300]	160 [23,200]											
90 [13,050]				120 [17,400]	150 [21,750]											
C-32	C-33	C-46	C-48	C-55	C-57	C-58	C-59	C-60	C-61	C-66	C-67	C-68	C-71			

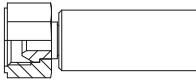
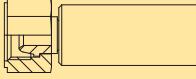
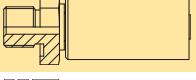
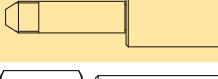
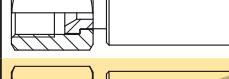
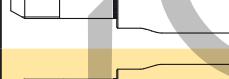
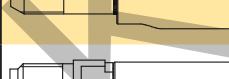
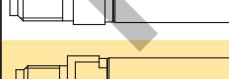
## Hose selection chart by working pressure – design factor 4:1

Nominal size				2022N	2244N	2380N	2380N-MSHA	2388N	2580N-MSHA
DN	size	mm	inch						
3	-02	3.2	1/8						
4	-025	4.0	5/32		75 [10,875]	75 [10,875]			
5	-03	4.8	3/16						
6	-04	6.4	1/4	69 [10,000]		70 [10,150]	70 [10,150]	80 [11,600]	
8	-05	7.9	5/16			62.5 [9,060]			
10	-06	9.5	3/8	69 [10,000]	53.5 [7,755]	57.5 [8,337]			70 [10,150]
12	-08	12.7	1/2	69 [10,000]	55 [7,975]	55 [7,975]			
20	-12	19.0	3/4						
25	-16	25.4	1						
32	-20	31.8	1 1/4			27.5 [3,990]			
Fitting series				8X / 3X / LX	8X / NX	8X / LX / NX	8X	8X / NX	BL
Page				B-2	B-5	B-18	B-25	B-27	B-33

## Hose fitting chart

Fitting	Fitting description	Fitting designation
	National Pipe Tapered (NPT) male	01
	National Pipe Tapered (NPT) female	02
	JIC male	03
	UNF male with O-ring	05
	JIC female swivel	06
	NPSM female swivel	07
	Metric female swivel light series	C3
	Metric female swivel heavy series	C6
	Metric female swivel heavy series with O-ring	C9
	Metric female swivel heavy series with O-ring 45° elbow	0C
	Metric female swivel heavy series with O-ring 90° elbow	1C
	Metric male heavy series	D2

## Hose fitting chart

Fitting	Fitting description	Fitting designation
	BSP female swivel (60° cone)	92
	BSP female swivel (ballnose)	U0
	BSP male	D9 or 3B
	BSP male for USIT ring	Y9
	Type "M" female swivel	AY
	Medium pressure tube nipple	Y2
	Medium pressure female swivel	5Y
	High pressure female swivel	6Y
	High pressure tube nipple UNF-LH thread	Y4 or YA
	High pressure tube nipple metric-LH thread	YM
	BSP male nozzle nipple	YB
	Metric male nozzle nipple	YZ

## Hose fitting chart

Fitting	Fitting description	Fitting designation
A diagram showing a female threaded fitting with a square base and a tapered male thread extending from the top.	UNF female for water jetting nozzle (left hand)	HY (-LH)
A diagram showing a male threaded fitting with a square base and a tapered male thread extending from the top.	Male water jetting nozzle	3Z or ZE
A diagram showing a female threaded fitting with a square base and a tapered male thread extending from the top.	Female water jetting nozzle	EZ
A diagram showing a male threaded fitting with a square base and a tapered male thread extending from the top.	UNF male nozzle nipple	YH
A diagram showing a flange fitting with a square base and a central hole.	SAE code 61 flange	15
A diagram showing a flange fitting with a square base and a central hole, with a 45-degree bend on the side.	SAE code 61 flange 45° elbow	17
A diagram showing a flange fitting with a square base and a central hole, with a 90-degree bend on the side.	SAE code 61 flange 90° elbow	19
A diagram showing a flange fitting with a square base and a central hole.	SAE code 62 flange	6A
A diagram showing a flange fitting with a square base and a central hole, with a 45-degree bend on the side.	SAE code 62 flange 45° elbow	6F
A diagram showing a flange fitting with a square base and a central hole, with a 90-degree bend on the side.	SAE code 62 flange 90° elbow	6N
A diagram showing a female threaded fitting with a square base and a tapered male thread extending from the top, featuring a swivel joint.	Metric female swivel 59° cone	MR

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**Chapter B****Hoses with design factor 4:1****Hose**

<b>2022N</b> – High pressure hose – electrically non-conductive.....	B-2
<b>2244N</b> – High pressure hose.....	B-5
<b>2380N</b> – High pressure hose.....	B-18
<b>2380N-MSHA</b> – High pressure mining hose.....	B-25
<b>2388N</b> – High pressure hose.....	B-27
<b>2580N-MSHA</b> – High pressure mining hose.....	B-33

Hoses with design factor 4:1

2022N

## 2022N – High pressure hose electrically non-conductive



### CONSTRUCTION

Core tube : Polyamide 11, methanol washed

Pressure reinforcement : Two braided layers of high tensile aramid fibre

Cover : Sea water resistant TPU

Standard colour : Orange

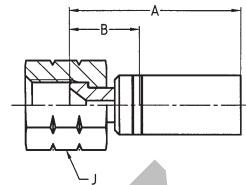
### TEMPERATURE RANGE

-40°C up to +55°C

#	O				mm	MPa	psi	MPa	psi	mm	kg/m
	DN	size	mm	inch							
2022N-04V15-10K	6	-04	6.4	1/4	13.8	69	10,000	276	40,000	100	0.14
2022N-06V15-10K	10	-06	9.7	3/8	19.0	69	10,000	276	40,000	100	0.24
2022N-08V15-10K	12	-08	12.9	1/2	23.0	69	10,000	276	40,000	100	0.34

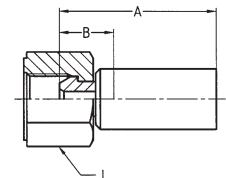
### NOTES

-

**1068X / 1063X / 106LX – JIC female swivel**

**MATERIAL** Carbon Steel, zinc plated

C: Stainless steel (AISI 316), other materials on request.

#					A	B			Nipple ID	Ferrule OD		
	DN	size	mm	inch								
1068X-4-04	6	-04	6.4	1/4	7/16 - 20 UNF	57	26	19	69.0	10,000	2.8	18.4
1068X-5-04	6	-04	6.4	1/4	1/2 - 20 UNF	55	24	19	80.0	11,600	3.6	18.4
1068X-6-04C	6	-04	6.4	1/4	9/16 - 18 UNF	55	24	19	80.0	11,600	3.6	18.4
1063X-6-06C	10	-06	9.5	3/8	9/16 - 18 UNF	69	33	22	69.0	10,000	5.3	23.2
106LX-8-08	12	-08	12.7	1/2	3/4 - 16 UNF	80	27	27	69.0	10,000	6.7	30.7
106LX-8-08C	12	-08	12.7	1/2	3/4 - 16 UNF	80	27	27	69.0	10,000	6.7	30.7

**1923X / 192LX – BSP female swivel (60° cone)**

**MATERIAL** Stainless steel (AISI 316), other materials on request.

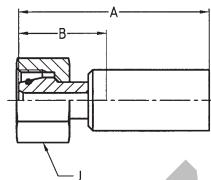
#					A	B			Nipple ID	Ferrule OD		
	DN	size	mm	inch								
1923X-8-06C	10	-06	9.5	3/8	G 1/2	66	22	30	69	10,000	5.3	23.2
192LX-8-08	12	-08	12.7	1/2	G 1/2	75	21	30	130	18,850	6.7	30.7
192LX-8-08C	12	-08	12.7	1/2	G 1/2	75	21	30	130	18,850	6.7	30.7
192LX-12-08C	12	-08	12.7	1/2	G 3/4	85	30	32	130	18,850	6.7	30.7

Hoses with design factor 4:1

1C98X / 1C93X / 1C9LX

## 1C98X / 1C93X / 1C9LX – Metric female swivel

Heavy series



**MATERIAL** Stainleess steel (AISI 316), other materials on request.

#	O				~~~~~	A	B	J	Nipple ID	Ferrule OD
	DN	size	mm	inch						
1C98X-8-04C	6	-04	6.4	1/4	M16 x 1.5	59	27	19	69.0	10,000
1C98X-10-04C	6	-04	6.4	1/4	M18 x 1.5	65	33	22	69.0	10,000
1C93X-14-06C	10	-06	9.5	3/8	M22 x 1.5	75	30	30	69.0	10,000
1C93X-16-06C	10	-06	9.5	3/8	M24 x 1.5	88	34	30	69.0	10,000
1C9LX-16-08	12	-08	12.7	1/2	M24 x 1.5	88	34	30	130.0	18,850
1C9LX-16-08C	12	-08	12.7	1/2	M24 x 1.5	88	34	30	130.0	18,850

## 2244N – High pressure hose



### CONSTRUCTION

**Core tube** : Polyamide

**Pressure reinforcement** : Two spiral layers, one braided layer of high tensile steel wire

**Cover** : Polyurethane

**Standard colour** : Black

### TEMPERATURE RANGE

-40°C up to +100°C

Design Factor 4:1

#	O				mm	MPa	psi		mm	kg/m
	DN	size	mm	inch						
2244N-025V00	4	-025	3.9	5/32	9.6	75.0	10,875		300	43,500
2244N-06V00	10	-06	9.8	3/8	18.0	53.5	7,755		215	31,175
2244N-08V10	12	-08	12.9	1/2	22.7	55.0	7,975		220	31,900

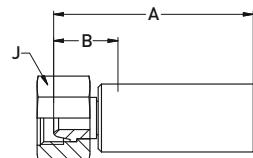
### NOTES

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Hoses with design factor 4:1

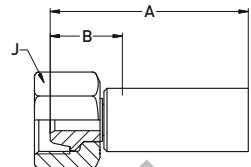
1C38X

## 1C38X – Metric female swivel light series



**MATERIAL** Carbon steel, zinc plated

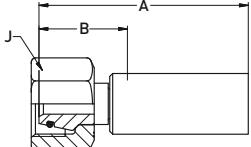
#	O				~~~~~	A	B	J	Nipple		Ferrule ID mm	Ferrule OD mm
	DN	size	mm	inch					MPa	psi		
1C38X-8-06	10	-06	9.5	3/8	M14x1.5	61	21	19	42.0	6,090	6.8	23.8
1C38X-10-06	10	-06	9.5	3/8	M16x1.5	49	20	22	57.5	8,340	6.8	23.8
1C38X-12-06	10	-06	9.5	3/8	M18x1.5	48	19	22	57.5	8,340	6.8	23.8
1C38X-12-08	12	-08	12.7	1/2	M18x1.5	52	20	24	55.0	7,975	8.8	29.5
1C38X-15-08	12	-08	12.7	1/2	M22x1.5	51	20	27	55.0	7,975	8.8	29.5

**1C68X – Metric female swivel heavy series****MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch		A	B	J	Nipple ID	Ferrule OD		
						mm	mm	mm	MPa	psi	mm	mm
1C68X-14-06	10	-06	9.5	3/8	M22x1.5	64	24	27	63.0	9,135	6.8	23.8
1C68X-16-08	12	-08	12.7	1/2	M24x1.5	67	24	30	55.0	7,975	8.8	29.5

**1C98X – Metric female swivel heavy series with O-ring**

ISO 12151-2

**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch		A	B	J	Nipple ID	Ferrule OD		
						mm	mm	mm	MPa	psi	mm	mm
1C98X-8-025	4	-025	4	5/32	M16x1.5	54	27	19	75.0	10,875	2.3	13.2
1C98X-12-06	10	-06	9.5	3/8	M20x1.5	70	30	24	63.0	9,135	6.8	23.8
1C98X-14-06	10	-06	9.5	3/8	M22x1.5	71	30	27	63.0	9,135	6.8	23.8
1C98X-16-08	12	-08	12.7	1/2	M24x1.5	78	35	30	63.0	9,135	8.8	29.5

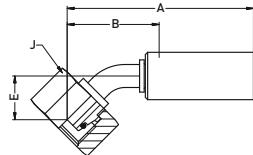
Hoses with design factor 4:1

10C8X – 11C8X

## 10C8X – Metric female swivel heavy series with O-ring, 45° elbow

ISO 12151-2

**MATERIAL** Carbon steel, zinc plated

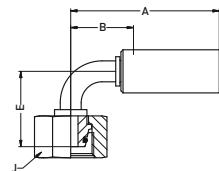


#	O		~~~~~	A	B	E	J	Nipple ID	Ferrule OD				
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm		
10C8X-12-06	10	-06	9.5	3/8	M20x1.5	81	40	19	24	63.0	9,135	6.8	23.8
10C8X-14-06	10	-06	9.5	3/8	M22x1.5	81	40	19	27	63.0	9,135	6.8	23.8
10C8X-16-08	12	-08	12.7	1/2	M24x1.5	96	53	23	30	63.0	9,135	8.8	29.5

## 11C8X – Metric female swivel heavy series with O-ring, 90° elbow

ISO 12151-2

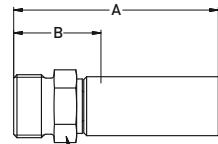
**MATERIAL** Carbon steel, zinc plated



#	O		~~~~~	A	B	E	J	Nipple ID	Ferrule OD				
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm		
11C8X-14-06	10	-06	9.5	3/8	M22x1.5	71	30	36	27	63.0	9,135	6.8	23.8
11C8X-16-08	12	-08	12.7	1/2	M24x1.5	85	42	44	30	63.0	9,135	8.8	29.5

## 1D28X – Metric male heavy series ISO 12151-2

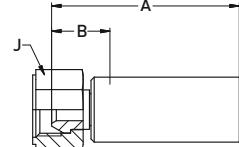
**MATERIAL** Carbon steel, zinc plated



#	DN	size	mm	inch	~~~~~	A	B	H	MPa	psi	Nipple ID	Ferrule OD
						mm	mm	mm			mm	mm
1D28X-12-06	10	-06	9.5	3/8	M20x1.5	69	29	22	63.0	9,135	6.8	23.8
1D28X-14-06	10	-06	9.5	3/8	M22x1.5	71	31	22	63.0	9,135	6.8	23.8
1D28X-16-08	12	-08	12.7	1/2	M24x1.5	74	31	24	63.0	9,135	8.8	29.5

## 1928X – BSP female swivel (60° cone)

**MATERIAL** Carbon steel, zinc plated

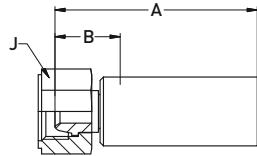


#	DN	size	mm	inch	~~~~~	A	B	J	MPa	psi	Nipple ID	Ferrule OD
						mm	mm	mm			mm	mm
1928X-4-025	4	-025	4.0	5/32	G 1/4	48	20	19	75.0	10,875	2.3	13.2
1928X-6-06	10	-06	9.5	3/8	G 3/8	59	19	22	57.5	8,340	6.8	23.8
1928X-8-06	10	-06	9.5	3/8	G 1/2	60	20	27	57.5	8,340	6.8	23.8
1928X-8-08	12	-08	12.7	1/2	G 1/2	63	20	27	55.0	7,975	8.8	29.5

Hoses with design factor 4:1

1U08X

## 1U08X – BSP female swivel (ballnose)

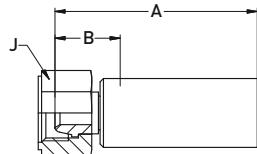


**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
1U08X-6-06	10	-06	9.5	3/8	G 3/8	61	20	22	57.5	8,340	6.8	23.8
1U08X-8-06	10	-06	9.5	3/8	G 1/2	61	20	27	53.5	7,755	6.8	23.8
1U08X-8-08	12	-08	12.7	1/2	G1/2	61	22	27	55.0	7,975	6.8	23.8

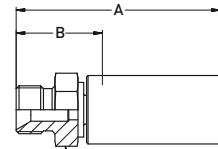
## 1U08X – BSP female swivel (ballnose)

With stainless steel nipple

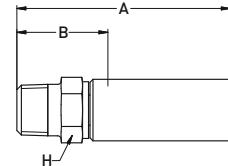


**MATERIAL** Carbon steel, zinc plated (shell and nut)  
stainless steel nipple (material 1.4301)

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
1U08X-6-06C2W	10	-06	9.5	3/8	G 3/8	61	20	22	57.5	8,340	6.8	23.8
1U08X-8-06C2W	10	-06	9.5	3/8	G 1/2	61	20	27	53.5	7,755	6.8	23.8

**13B8X – BSP male****MATERIAL** Carbon steel, zinc plated

#	○			~~~~~	A	B	H	○	Nipple ID	Ferrule OD	
									mm	mm	
13B8X-4-025	4	-025	4.0	5/32	G 1/4	57	30	17	75.0	10,875	2.3
13B8X-6-06	10	-06	9.5	3/8	G 3/8	71	30	22	57.5	8,340	6.8
13B8X-8-06	10	-06	9.5	3/8	G 1/2	76	35	22	57.5	8,340	6.8
13B8X-8-08	12	-08	12.7	1/2	G 1/2	79	35	24	55.0	7,974	8.8

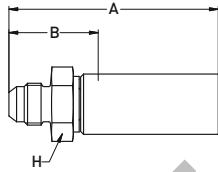
**1018X – NPT male****MATERIAL** Carbon steel, zinc plated

#	○			~~~~~	A	B	H	○	Nipple ID	Ferrule OD	
									mm	mm	
1018X-2-025	4	-025	4.0	5/32	1/8 NPT	51	24	8	75.0	10,875	2.3
1018X-4-025	4	-025	4.0	5/32	1/4 NPT	59	32	13	75.0	10,875	2.3
1018X-6-06	10	-06	9.5	3/8	3/8 NPT	71	31	19	103.4	15,000	6.8
1018X-8-06	10	-06	9.5	3/8	1/2 NPT	76	36	22	103.4	15,000	6.8
1018X-8-08	12	-08	12.7	1/2	1/2 NPT	79	37	22	103.4	15,000	8.8

Hoses with design factor 4:1

1038X – 1068X

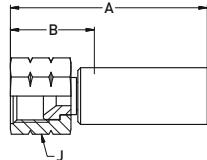
## 1038X – JIC male



**MATERIAL** Carbon steel, zinc plated

#	O				~~~~~	A	B	H	~~~~~	Nipple ID	Ferrule OD	
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1038X-6-06	10	-06	9.5	3/8	9/16 - 18UNF	70	30	22	53.5	7,755	6.8	23.8
1038X-8-06	10	-06	9.5	3/8	3/4 - 16UNF	74	34	22	69.0	10,000	6.8	23.8
1038X-8-08	12	-08	12.7	1/2	3/4 - 16UNF	77	35	22	69.0	10,000	8.8	29.5
1038X-10-08	12	-08	12.7	1/2	7/8 - 14UNF	83	40	24	55.0	7,974	8.8	29.5

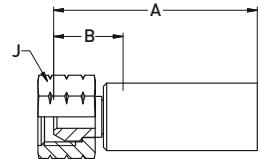
## 1068X – JIC female swivel



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#	O				~~~~~	A	B	J	~~~~~	Nipple ID	Ferrule OD	
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1068X-4-025	4	-025	4.0	5/32	7/16 - 20 UNF	55	27	14	69	10,000	2.3	13.2
1068X-6-025	4	-025	4.0	5/32	9/16 - 18 UNF	51	24	19	75	10,875	2.3	13.2
1068X-6-06	10	-06	9.5	3/8	9/16 - 18 UNF	59	18	22	69	10,000	6.8	23.8
1068X-6-06C	10	-06	9.5	3/8	9/16 - 18 UNF	59	18	22	69	10,000	6.8	23.8
1068X-8-06	10	-06	9.5	3/8	3/4 - 16 UNF	59	19	24	69	10,000	6.8	23.8
1068X-8-08	12	-08	12.7	1/2	3/4 - 16 UNF	64	21	27	69	10,000	8.8	29.5
1068X-8-08C	12	-08	12.7	1/2	3/4 - 16 UNF	64	21	27	69	10,000	8.8	29.5
1068X-10-08	12	-08	12.7	1/2	7/8 - 14 UNF	62	19	27	69	10,000	8.8	29.5

## 1078X – NPSM female swivel



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

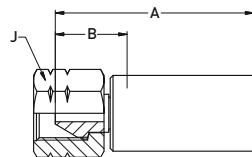
#	O		~~~~~		A mm	B mm	J mm	Nipple		Ferrule ID mm	Ferrule OD mm	
	DN	size	mm	inch				MPa	psi			
1078X-6-06	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22	57.5	8,340	6.8	23.8
1078X-6-06C	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22	57.5	8,340	6.8	23.8
1078X-8-08	12	-08	12.7	1/2	1/2 - 14NPSM	50	19	27	55.0	7,975	8.8	29.5
1078X-8-08C	12	-08	12.7	1/2	1/2 - 14NPSM	50	19	27	55.0	7,975	8.8	29.5

KTOVAN

Hoses with design factor 4:1

**1AY8X – 1158X**

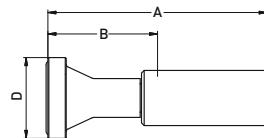
## **1AY8X – Type “M” female swivel**



**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD	
1AY8X-6-025	4	-025	4.0	5/32	9/16 - 18 UNF	56	28	19	75 10,875	2.3 13.2

## **1158X – SAE code 61 flange** ISO 12151-3

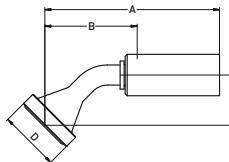


**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	D	Nipple ID	Ferrule OD
1158X-8-08	12	-08	12.7	1/2	87	44	30	21 3,000	8.8 29.5

## 1178X – SAE code 61 flange 45° elbow

ISO 12151-3

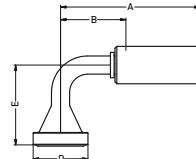


**MATERIAL** Carbon steel, zinc plated

#	Ø	A	B	D	E	Ø	Nipple ID	Ferrule OD
	DN size mm inch	mm	mm	mm	mm	MPa psi	mm	mm
1178X-8-08	12 -08 12.7 1/2	95	53	30	20	55.0 7,974	8.8	29.5

## 1198X – SAE code 61 flange 90° elbow

ISO 12151-3



**MATERIAL** Carbon steel, zinc plated

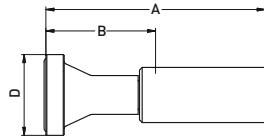
#	Ø	A	B	D	E	Ø	Nipple ID	Ferrule OD
	DN size mm inch	mm	mm	mm	mm	MPa psi	mm	mm
1198X-8-08	12 -08 12.7 1/2	78	35	30	44	55.0 7,974	8.8	29.5

Hoses with design factor 4:1

16A8X – 16F8X

## 16A8X – SAE code 62 flange

ISO 12151-3



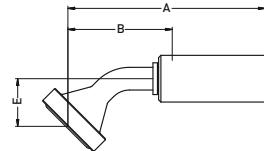
**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	D	MPa	psi	Nipple ID	Ferrule OD
16A8X-8-08	12	-08	12.7	1/2	88	45	32	55.0	7,974	8.8	29.5

## 16F8X – SAE code 62 flange

45° elbow

ISO 12151-3

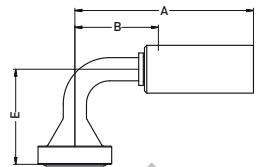


**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	D	E	MPa	psi	Nipple ID	Ferrule OD
16F8X-8-08	12	-08	12.7	1/2	95	52	32	21	55.0	7,974	8.8	29.5

**16N8X – SAE code 62 flange****90° elbow**

ISO 12151-3

**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	D	E	Nipple ID	Ferrule OD
16N8X-8-08	12	-08	12.7	1/2	87	44	32	41	55.0	7,974
									8.8	29.5

**2380N – High pressure hose****CONSTRUCTION**

Core tube : Polyamide

Pressure reinforcement : Two spiral layers and two open spiral layers of high tensile steel wire

Cover

Standard colour : Polyurethane, DN32: Polyamide

: Black

**TEMPERATURE RANGE**

-40°C up to +100°C

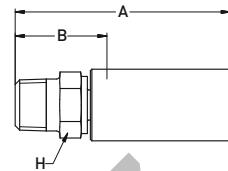
#	O				mm	MPa	psi	MPa	psi	mm	kg/m
	DN	size	mm	inch							
2380N-025V10	4	-025	3.9	5/32	9.7	75.0	10,875	300	43,500	55	0.16
2380N-04V00	6	-04	6.3	1/4	13.4	70.0	10,150	280	40,600	70	0.27
2380N-05V00	8	-05	8.3	5/16	15.8	62.5	9,060	250	36,250	90	0.35
2380N-06V10	10	-06	9.8	3/8	17.9	57.5	8,337	230	33,350	120	0.44
2380N-08V10	12	-08	12.9	1/2	22.9	55.0	7,975	220	31,900	150	0.68
2380N-20V30	32	-20	31.8	1 1/4	44.0	27.5	3,985	110	15,950	400	1.83

**NOTES**

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## 1018X / 101LX – National Pipe Tapered (NPT) male

**MATERIAL** Carbon steel, zinc plated, C: Stainless steel



Design Factor 4:1

#					A	B				Nipple ID mm	Ferrule OD mm	
								MPa	psi			
DN	size	mm	inch		mm	mm	mm					
1018X-2-025	4	-025	4.0	5/32	1/8 NPT	51	24	8	75.0	10,875	2.3	13.2
1018X-4-025	4	-025	4.0	5/32	1/4 NPT	59	32	13	75.0	10,875	2.3	13.2
1018X-1-04	6	-04	6.4	1/4	1/16 NPT	59	27	14	103.4	15,000	3.6	18.5
1018X-2-04	6	-04	6.4	1/4	1/8 NPT	60	28	13	103.4	15,000	3.6	18.5
1018X-4-04	6	-04	6.4	1/4	1/4 NPT	65	33	14	103.4	15,000	3.6	18.5
1018X-4-04C	6	-04	6.4	1/4	1/4 NPT	65	33	14	103.4	15,000	3.6	18.5
1018X-6-04	6	-04	6.4	1/4	3/8 NPT	67	35	19	103.4	15,000	3.6	18.5
1018X-6-04C	6	-04	6.4	1/4	3/8 NPT	67	35	19	103.4	15,000	3.6	18.5
1018X-4-05	8	-05	7.9	5/16	1/4 NPT	61	30	14	103.4	15,000	4.8	20.1
1018X-6-05	8	-05	7.9	5/16	3/8 NPT	70	30	19	103.4	15,000	4.8	20.1
1018X-6-05C	8	-05	7.9	5/16	3/8 NPT	70	30	19	103.4	15,000	4.8	20.1
1018X-6-06	10	-06	9.5	3/8	3/8 NPT	71	31	19	103.4	15,000	6.8	23.4
1018X-6-06C	10	-06	9.5	3/8	3/8 NPT	71	31	19	103.4	15,000	6.8	23.4
1018X-8-06	10	-06	9.5	3/8	1/2 NPT	76	36	22	103.4	15,000	6.8	23.4
1018X-8-06C	10	-06	9.5	3/8	1/2 NPT	76	36	22	103.4	15,000	6.8	23.4
101LX-8-08	12	-08	12.7	1/2	1/2 NPT	91	37	22	103.4	15,000	6.7	30.7
101LX-8-08C	12	-08	12.7	1/2	1/2 NPT	91	37	22	103.4	15,000	6.7	30.7

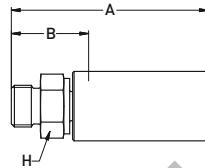
Hoses with design factor 4:1

1058X – 1068X / 106LX

Design Factor 4:1

## 1058X – UNF male with O-ring

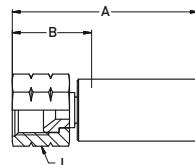
MATERIAL Special materials



#	DN	size	mm	inch	Wavy line icon	A	B	Symbol H	Symbol O	Nipple ID	Ferrule OD	
						mm	mm	mm	MPa	psi	mm	mm
1058X-4-04	6	-04	6.4	1/4	7/16 - 20 UNF	61	29	14	80	11,600	3.6	18.5
1058X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF	62	30	17	80	11,600	3.6	18.5

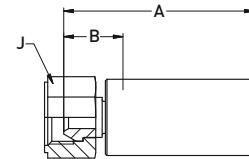
## 1068X / 106LX – JIC female swivel

MATERIAL Carbon steel, zinc plated, C: Stainless steel



#	DN	size	mm	inch	Wavy line icon	A	B	Symbol J	Symbol O	Nipple ID	Ferrule OD	
						mm	mm	mm	MPa	psi	mm	mm
1068X-4-04	6	-04	6.4	1/4	7/16 - 20 UNF	57	26	19	69.0	10,000	2.8	18.5
1068X-4-04C	6	-04	6.4	1/4	7/16 - 20 UNF	57	26	19	69.0	10,000	2.8	18.5
1068X-5-04	6	-04	6.4	1/4	1/2 - 20 UNF	55	24	19	80.0	11,600	2.8	18.5
1068X-5-04C	6	-04	6.4	1/4	1/2 - 20 UNF	55	24	19	80.0	11,600	2.8	18.5
1068X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF	55	24	19	80.0	11,600	3.6	18.5
1068X-6-04C	6	-04	6.4	1/4	9/16 - 18 UNF	55	24	19	80.0	11,600	3.6	18.5
1068X-6-05	8	-05	7.9	5/16	9/16 - 18 UNF	56	16	19	69.0	10,000	4.8	20.1
1068X-6-05C	8	-05	7.9	5/16	9/16 - 18 UNF	56	16	19	69.0	10,000	4.8	20.1
1068X-6-06	10	-06	9.5	3/8	9/16 - 18 UNF	59	18	22	69.0	10,000	4.8	23.4
1068X-6-06C	10	-06	9.5	3/8	9/16 - 18 UNF	59	18	22	69.0	10,000	4.8	23.4
106LX-8-08	12	-08	12.7	1/2	3/4 - 16 UNF	80	27	27	69.0	10,000	6.7	30.7
106LX-8-08C	12	-08	12.7	1/2	3/4 - 16 UNF	80	27	27	69.0	10,000	6.7	30.7

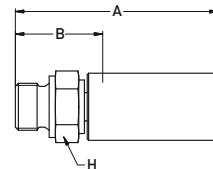
## 1928X / 192LX – BSP female swivel (60° cone)



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#	()				~~~~~	A	B	()	()	MPa	psi	Nipple ID	Ferrule OD
	DN	size	mm	inch									
1928X-4-025	4	-025	4.0	5/32	G 1/4	48	20	19	75.0	10,875	2.3	13.2	
1928X-4-04	6	-04	6.4	1/4	G 1/4	56	25	19	80.0	11,600	3.6	18.5	
1928X-4-04C	6	-04	6.4	1/4	G 1/4	56	25	19	80.0	11,600	3.6	18.5	
1928X-6-06	10	-06	9.5	3/8	G 3/8	59	19	22	57.5	8,340	6.8	23.4	
1928X-6-06C	10	-06	9.5	3/8	G 3/8	59	19	22	57.5	8,340	6.8	23.4	
1928X-8-06	10	-06	9.5	3/8	G 1/2	60	20	27	57.5	8,340	6.8	23.4	
1928X-8-06C	10	-06	9.5	3/8	G 1/2	60	20	27	57.5	8,340	6.8	23.4	
192LX-8-08	12	-08	12.7	1/2	G 1/2	75	21	30	130.0	18,850	6.7	30.7	
192LX-8-08C	12	-08	12.7	1/2	G 1/2	75	21	30	130.0	18,850	6.7	30.7	

## 1D98X / 1D9LX – BSP male



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

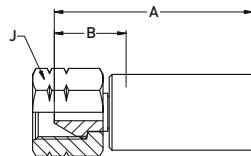
#	()				~~~~~	A	B	()	()	MPa	psi	Nipple ID	Ferrule OD
	DN	size	mm	inch									
1D98X-4-025	4	-025	4.0	5/32	G 1/4	60	33	19	75.0	10,875	2.3	13.2	
1D98X-4-025C	4	-025	4.0	5/32	G 1/4	60	33	19	75.0	10,875	2.3	13.2	
1D98X-4-04	6	-04	6.4	1/4	G 1/4	67	35	19	80.0	11,600	3.6	18.5	
1D98X-4-04C	6	-04	6.4	1/4	G 1/4	67	35	19	80.0	11,600	3.6	18.5	
1D98X-6-04	6	-04	6.4	1/4	G 3/8	69	37	22	80.0	11,600	3.6	18.5	
1D98X-6-04C	6	-04	6.4	1/4	G 3/8	69	37	22	80.0	11,600	3.6	18.5	
1D98X-6-05	8	-05	7.9	5/16	G 3/8	70	31	22	62.5	9,060	4.8	20.1	
1D98X-6-06	10	-06	9.5	3/8	G 3/8	70	30	22	57.5	8,340	6.8	23.4	
1D98X-6-06C	10	-06	9.5	3/8	G 3/8	70	30	22	57.5	8,340	6.8	23.4	
1D9LX-8-08	12	-08	12.7	1/2	G 1/2	88	34	27	130.0	18,850	6.7	30.7	

Hoses with design factor 4:1

1AY8X – 1078X

Design Factor 4:1

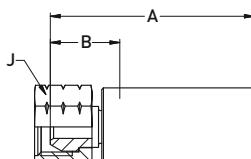
## 1AY8X – Type “M” female swivel



**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
1AY8X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF	60	28	19	80.0	11,600	3.6	18.5
1AY8X-8-05	8	-05	7.9	5/16	3/4 - 16 UNF	74	30	27	69.0	10,000	4.8	20.1

## 1078X – NPSM female swivel

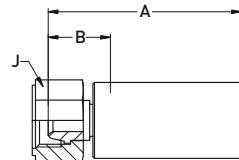


**MATERIAL** Carbon steel, zinc plated

**NOTE** C2W: Stainless steel nipple

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
1078X-4-04	6	-04	6.4	1/4	1/4 - 18NPSM	59	28	19	80.0	11,600	3.6	18.5
1078X-6-05	8	-05	7.9	5/16	3/8 - 18NPSM	60	21	22	62.5	9,060	4.8	20.1
1078X-6-06	10	-06	9.5	3/8	3/8 - 18NPSM	62	21	22	57.5	8,340	6.8	23.4

## 1U08X – BSP female swivel (ballnose)

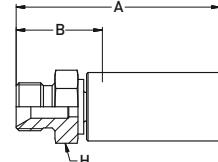


**MATERIAL** Carbon steel, zinc plated

**NOTE** C2W: Stainless steel nipple

#	O		~~~~~		A mm	B mm	J mm	~~~~~		Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch				MPa	psi		
1U08X-4-04	6	-04	6.4	1/4	G 1/4	58	27	19	80.0	11,600	3.6
1U08X-6-04	6	-04	6.4	1/4	G 3/8	58	27	27	80.0	11,600	3.6
1U08X-6-05	8	-05	7.9	5/16	G 3/8	59	19	19	62.5	9,060	4.8
1U08X-6-06	10	-06	9.5	3/8	G 3/8	61	20	22	57.5	8,340	6.8
1U08X-8-06	10	-06	9.5	3/8	G 1/2	61	20	27	57.5	8,340	6.8

## 13B8X / 13BNX – BSP male



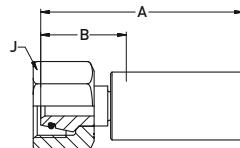
**MATERIAL** Carbon steel, zinc plated

#	O		~~~~~		A mm	B mm	H mm	~~~~~		Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch				MPa	psi		
13B8X-4-025	4	-025	4.0	5/32	G 1/4	57	30	17	75.0	10,875	2.3
13B8X-4-04	6	-04	6.4	1/4	G 1/4	64	32	17	80.0	11,600	3.6
13B8X-6-04	6	-04	6.4	1/4	G 3/8	67	35	19	80.0	11,600	3.6
13B8X-6-05	8	-05	7.9	5/16	G 3/8	69	30	22	62.5	9,060	4.8
13B8X-6-06	10	-06	9.5	3/8	G 3/8	70	30	22	57.5	8,340	6.8
13B8X-8-06	10	-06	9.5	3/8	G 1/2	75	35	22	57.5	8,340	6.8
13BNX-24-20	32	-20	31.8	1 1/4	G 1 1/2	118	57	55	27.5	3,990	24.9

Hoses with design factor 4:1

1C98X / 1C9LX / 1C9NX

## 1C98X / 1C9LX / 1C9NX – Metric female swivel heavy series with O-ring



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#	O			~~~~~	A	B	J			Nipple ID	Ferrule OD
	DN	size	mm	inch				mm	mm		
1C98X-8-025	4	-025	4.0	5/32	M16x1.5	54	27	19	75.0	10,875	2.3
1C98X-8-025C	4	-025	4.0	5/32	M16x1.5	54	27	19	75.0	10,875	2.3
1C98X-8-04	6	-04	6.4	1/4	M16x1.5	59	27	19	80.0	11,600	3.6
1C98X-8-04C	6	-04	6.4	1/4	M16x1.5	59	27	19	80.0	11,600	3.6
1C98X-10-04	6	-04	6.4	1/4	M18x1.5	56	33	22	80.0	11,600	3.6
1C98X-10-04C	6	-04	6.4	1/4	M18x1.5	56	33	22	80.0	11,600	3.6
1C98X-12-04	6	-04	6.4	1/4	M20x1.5	69	37	24	80.0	11,600	3.6
1C98X-12-05	8	-05	7.9	5/16	M20x1.5	62	23	24	63.0	9,135	4.8
1C98X-16-05	8	-05	7.9	5/16	M24x1.5	65	25	30	63.0	9,135	4.8
1C98X-12-06	10	-06	9.5	3/8	M20x1.5	70	30	24	63.0	9,135	6.8
1C98X-12-06C	10	-06	9.5	3/8	M20x1.5	70	30	24	63.0	9,135	6.8
1C98X-14-06	10	-06	9.5	3/8	M22x1.5	70	30	27	63.0	9,135	6.8
1C98X-14-06C	10	-06	9.5	3/8	M22x1.5	70	30	27	63.0	9,135	6.8
1C9LX-16-08	12	-08	12.7	1/2	M24x1.5	88	34	30	130.0	18,850	6.6
1C9NX-38-20	32	-20	31.8	1 1/4	M52x2	113	52	60	44.0	6,380	24.9

## 2380N-MSHA – High pressure mining hose



### CONSTRUCTION

Core tube : Polyamide

Pressure reinforcement : Two spiral layers and two open spiral layers of high tensile steel wire

Cover : Polyurethane, MSHA approved

Standard colour : Black

### TEMPERATURE RANGE

-40°C up to +100°C

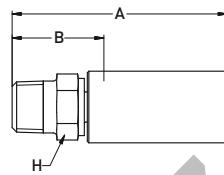
### Mining applications

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2380N-04V10-MSHA	6	-04	6.3	1/4	13.4	70	10,150	280	40,600	70	0.28

### NOTES

-

## 1018X – National Pipe Tapered (NPT) male

**MATERIAL**

Carbon steel, zinc plated; ZE: Carbon steel, special plating for high corrosion protection in mining applications

#	O				~~~~~	A	B	H	Nipple ID	Ferrule OD		
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1018X-4-04ZE	6	-04	6.4	1/4	1/4 NPT	65	33	14	103.4	15,000	3.6	18.5
1018X-6-04ZE	6	-04	6.4	1/4	3/8 NPT	67	35	19	103.4	15,000	3.6	18.5

## 2388N – High pressure hose



### CONSTRUCTION

Core tube : Polyamide

Pressure reinforcement : Two spiral layers and two open spiral layers of high tensile steel wire

Cover : Polyurethane

Standard colour : Black

### TEMPERATURE RANGE

-40°C up to +100°C

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2388N-04V00	6	-04	6.3	1/4	13.4	80	11,600	320	46,400	80	0.30

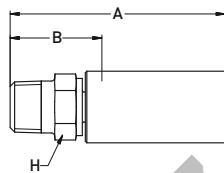
### NOTES

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Hoses with design factor 4:1

1018X – 1058X

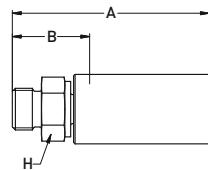
## 1018X – National Pipe Tapered (NPT) male



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#							A mm	B mm				Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch	MPa	psi							
1018X-1-04	6	-04	6.4	1/4	1/16 NPT		59	27	14	103.4	15,000	3.6	18.3
1018X-2-04	6	-04	6.4	1/4	1/8 NPT		60	28	13	103.4	15,000	3.6	18.3
1018X-4-04	6	-04	6.4	1/4	1/4 NPT		65	33	14	103.4	15,000	3.6	18.3
1018X-4-04C	6	-04	6.4	1/4	1/4 NPT		65	33	14	103.4	15,000	3.6	18.3
1018X-6-04	6	-04	6.4	1/4	3/8 NPT		67	35	19	103.4	15,000	3.6	18.3
1018X-6-04C	6	-04	6.4	1/4	3/8 NPT		67	35	19	103.4	15,000	3.6	18.3

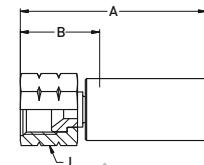
## 1058X – UNF male with O-ring



**MATERIAL** Special materials

#							A mm	B mm				Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch	MPa	psi							
1058X-4-04	6	-04	6.4	1/4	7/16 - 20 UNF		61	29	14	80	11,600	3.6	18.3
1058X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF		62	30	17	80	11,600	3.6	18.3

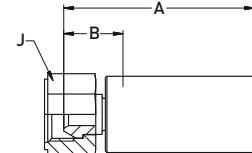
## 1068X – JIC female swivel



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#	O		~~~~~		A mm	B mm	J	~~~~~		Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch				MPa	psi		
1068X-4-04	6	-04	6.4	1/4	7/16 - 20 UNF	57	26	19	69.0	10,000	2.8
1068X-4-04C	6	-04	6.4	1/4	7/16 - 20 UNF	57	26	19	69.0	10,000	2.8
1068X-5-04	6	-04	6.4	1/4	1/2 - 20 UNF	55	24	19	80.0	11,600	3.6
1068X-5-04C	6	-04	6.4	1/4	1/2 - 20 UNF	55	24	19	80.0	11,600	3.6
1068X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF	55	24	19	80.0	11,600	3.6
1068X-6-04C	6	-04	6.4	1/4	9/16 - 18 UNF	55	24	19	80.0	11,600	3.6

## 1928X – BSP female swivel (60° cone)



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#	O		~~~~~		A mm	B mm	J	~~~~~		Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch				MPa	psi		
1928X-4-04	6	-04	6.4	1/4	G 1/4	56	25	19	80.0	11,600	3.6
1928X-4-04C	6	-04	6.4	1/4	G 1/4	56	25	19	80.0	11,600	3.6

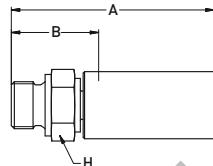
Hoses with design factor 4:1

## 1D98X – 1AY8X

### 1D98X – BSP male

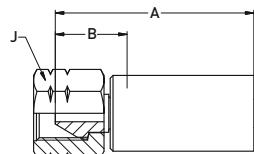
Design Factor 4:1

**MATERIAL** Carbon steel, zinc plated, C: Stainless steel



#	DN	size	mm	inch	A	B	Nipple ID	Ferrule OD				
					mm	mm	mm	mm				
1D98X-4-04	6	-04	6.4	1/4	G 1/4	67	35	19	80.0	11,600	3.6	18.3
1D98X-4-04C	6	-04	6.4	1/4	G 1/4	67	35	19	80.0	11,600	3.6	18.3

### 1AY8X – Type "M" female swivel

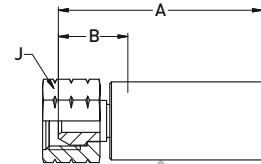


**MATERIAL** Carbon steel, zinc plated

#	DN	size	mm	inch	A	B	Nipple ID	Ferrule OD				
					mm	mm	mm	mm				
1AY8X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF	60	28	19	80.0	11,600	3.6	18.3

## 1078X – NPSM female swivel

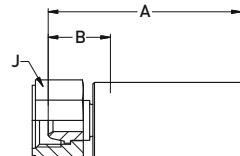
**MATERIAL** Carbon steel, zinc plated  
**NOTE** C2W: Stainless steel nipple



#	○	~~~~~	A	B	J	Nipple ID	Ferrule OD
	DN size mm inch		mm	mm	mm	MPa psi	mm mm
1078X-4-04	6 -04 6.4 1/4	1/4 - 18NPSM	59	28	19	80.0 11,600	3.6 18.3

## 1U08X – BSP female swivel (ballnose)

**MATERIAL** Carbon steel, zinc plated  
**NOTE** C2W: Stainless steel nipple



#	○	~~~~~	A	B	J	Nipple ID	Ferrule OD
	DN size mm inch		mm	mm	mm	MPa psi	mm mm
1U08X-4-04	6 -04 6.4 1/4	G 1/4	58	27	19	80.0 11,600	3.6 18.3
1U08X-4-04C2W	6 -04 6.4 1/4	G 1/4	58	27	19	80 11,600	3.6 18.3
1U08X-6-04	6 -04 6.4 1/4	G 3/8	58	27	27	80.0 11,600	3.6 18.3
1U08X-6-04C2W	6 -04 6.4 1/4	G 3/8	58	27	27	80 11,600	3.6 18.3

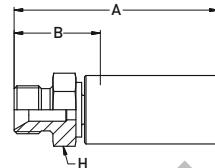
Hoses with design factor 4:1

13B8X – 1C98X

Design Factor 4:1

## 13B8X – BSP male

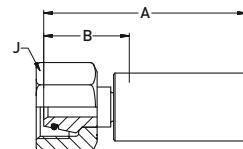
**MATERIAL** Carbon steel, zinc plated



#	DN	size	mm	inch	A	B	H	Nipple ID	Ferrule OD	
					mm	mm	mm	MPa	psi	
13B8X-4-04	6	-04	6.4	1/4	G 1/4	64	32	17	80.0 11,600	3.6 3.6 18.3 18.3
13B8X-6-04	6	-04	6.4	1/4	G 3/8	67	35	19	80.0 11,600	3.6 3.6 18.3 18.3

## 1C98X – Metric female swivel heavy series with O-ring

**MATERIAL** Carbon steel, zinc plated, C: Stainless steel



#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD	
					mm	mm	mm	MPa	psi	
1C98X-8-04	6	-04	6.4	1/4	M16x1.5	59	27	19	80.0 11,600	3.6 3.6 18.3 18.3
1C98X-8-04C	6	-04	6.4	1/4	M16x1.5	59	27	19	80.0 11,600	3.6 3.6 18.3 18.3
1C98X-10-04	6	-04	6.4	1/4	M18x1.5	56	33	22	80.0 11,600	3.6 3.6 18.3 18.3
1C98X-10-04C	6	-04	6.4	1/4	M18x1.5	56	33	22	80.0 11,600	3.6 3.6 18.3 18.3
1C98X-12-04	6	-04	6.4	1/4	M20x1.5	69	37	24	80.0 11,600	3.6 3.6 18.3 18.3

## 2580N-MSHA – High pressure mining hose



### CONSTRUCTION

Core tube : Polyamide

Pressure reinforcement : Four spiral layers and two open spiral layers of high tensile steel wire

Cover : Polyurethane, MSHA approved

Standard colour : Black

### TEMPERATURE RANGE

-40°C up to +100°C

### Mining applications

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2580N-06V10-MSHA	10	-06	9.8	3/8	21.6	70	10,150	280	40,600	95	0.94

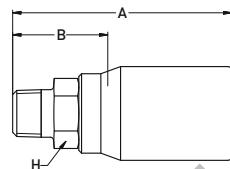
### NOTES

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Hoses with design factor 4:1

**101BL**

## **101BL – National Pipe Tapered (NPT) male**



### **MATERIAL**

Carbon steel, zinc plated; ZE: Carbon steel, special plating for high corrosion protection in mining applications

#	DN	size	mm	inch	~~~~~	A	B	(H)	~~~~~	Nipple ID	Ferrule OD	
101BL-6-06ZE	10	-06	9.5	3/8	3/8 NPT	80	35	22	103.4	15,000	5.5	28.5

## Chapter C

### Hoses with design factor >2:1

#### Hose

<b>ESH(200)</b>	- Sewer cleaning hose .....	C-2
<b>ESH250Plus(2)</b>	- Sewer cleaning hose .....	C-5
<b>2240D</b>	- TOUGH COVER High pressure hose .....	C-8
<b>2248D</b>	- TOUGH COVER High pressure hose .....	C-9
<b>2244N</b>	- High pressure hose.....	C-15
<b>2380N</b>	- High pressure hose.....	C-18
<b>2388N</b>	- High pressure hose (size -04) .....	C-19
<b>2380M</b>	- High pressure hose.....	C-24
<b>2388N</b>	- High pressure hose (size -08) .....	C-26
<b>2580N</b>	- High pressure hose.....	C-29
<b>2440D</b>	- Ultra-high pressure hose .....	C-32
<b>2440N</b>	- Ultra-high pressure hose .....	C-32
<b>2440D</b>	- TOUGH COVER Ultra-high pressure hose.....	C-33
<b>2448D</b>	- TOUGH COVER Ultra-high pressure hose.....	C-45
<b>2640D</b>	- Ultra-high pressure hose .....	C-48
<b>2640N</b>	- Ultra-high pressure hose .....	C-48
<b>2648N</b>	- Ultra-high pressure hose .....	C-55
<b>2740D</b>	- Ultra-high pressure hose .....	C-57
<b>2741D</b>	- Ultra-high pressure hose with 2nd cover .....	C-58
<b>2748D</b>	- Ultra-high pressure hose .....	C-59
<b>2748D</b>	- Ultra-high pressure hose with 2nd cover .....	C-60
<b>2749D</b>	- Ultra-high pressure hose .....	C-61
<b>2840D</b>	- Ultra-high pressure hose.....	C-66
<b>2841D</b>	- Ultra-high pressure hose.....	C-67
<b>2848D</b>	- Ultra-high pressure hose.....	C-68
<b>2849D</b>	- Ultra-high pressure hose.....	C-71

Hoses with design factor >2:1

**ESH & ESH200**

## **ESH & ESH200 – Sewer cleaning hose**



### **CONSTRUCTION**

**Core tube** : Thermoplast

**Pressure reinforcement** : High tensile synthetic fibre

**Cover** : Polyurethane

**Standard colour** : Yellow

### **TEMPERATURE RANGE**

-10°C up to +50°C

Design Factor >2:1

#	Ø	Ø	Ø	MPa	psi	MPa	psi	mm	kg/m
	DN	size	mm	inch					
ESH-08	12	-08	12.7	1/2	20.6	20	2,900	50	7,250
ESH200-16	25	-16	25.3	1	36.6	20	2,900	50	7,250
ESH200-20	32	-20	31.9	1 1/4	46.0	20	2,900	50	7,250

### **Ready-to-install assemblies** (further lengths available upon request)

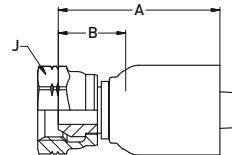
#	Length (m)								Fittings	
	80	100	120	160	180	200	220	240	BSP female swivel	BSP male
ESH-08	•	•	•	•	•	•	•	•	G 1/2	G 1/2
ESH200-16	•	•	•	•	•	•	•	•	G 1	G 1
ESH200-20	•	•	•	•	•	•	•	•	G 1 1/4	G 1 1/4

### **NOTES**

- ESH(200) available as bulk hose on a drum
- Crimp on a Parkrimp system or on a free adjustable crimper
- To crimp ES fittings -16 and -20 use Parkrimp dies 80C-F16ES and 80C-F20ES
- Ordering examples: ESH-08-16 or ESH200-16-240

## 192EH/192ES – BSP female swivel (60° cone)

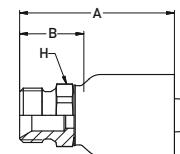
**MATERIAL** Steel, zinc plated



#	Ø	~~~~~	A	B	J	MPa	psi
	DN size mm inch		mm	mm	mm		
192EH-08-08	12 -08 12.8 1/2	G 1/2	57	22	27	25	3,625
192ES-16-16	25 -16 25.0 1	G 1	73	25	41	25	3,625
192ES-20-20	32 -20 32.0 1 1/4	G 1 1/4	80	32	50	25	3,625

## 1D9EH/1D9ES – BSP male

**MATERIAL** Steel, zinc plated



#	Ø	~~~~~	A	B	H	MPa	psi
	DN size mm inch		mm	mm	mm		
1D9EH-08-08	12 -08 12.8 1/2	G 1/2	64	30	27	25	3,625
1D9ES-16-16	25 -16 25.0 1	G 1	88	40	36	25	3,625
1D9ES-20-20	32 -20 32.0 1 1/4	G 1 1/4	93	45	50	25	3,625

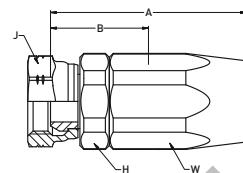
Design Factor >2:1

Hoses with design factor >2:1

292EJ – 2D9EJ

## 292EJ – BSP female swivel (60° cone)

Field attachable fitting

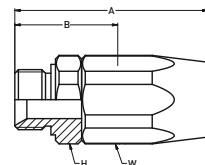


**MATERIAL** Steel, zinc plated

#	O		~~~~~	A	B	H	J	W	~~~~~		
	DN	size	mm	inch	mm	mm	mm	mm	MPa	psi	
292EJ-8-08	12	-08	12.8	1/2	G 1/2	77	37	27	27	17	2,465
292EJ-16-16	25	-16	25.0	1	G 1	100	50	46	46	17	2,465
292EJ-20-20	32	-20	32.0	1 1/4	G 1 1/4	113	60	55	55	17	2,465

## 2D9EJ – BSP male

Field attachable fitting



**MATERIAL** Steel, zinc plated

#	O		~~~~~	A	B	H	W	~~~~~			
	DN	size	mm	inch	mm	mm	mm	mm	MPa	psi	
2D9EJ-8-08	12	-08	12.8	1/2	G 1/2	75	35	27	27	17	2,465
2D9EJ-16-16	25	-16	25.0	1	G 1	100	50	46	46	17	2,465
2D9EJ-20-20	32	-20	32.0	1 1/4	G 1 1/4	113	60	55	55	17	2,465

### Safety Note:

Field attachable fittings are to be used for repair in field only.

A continuous use of field attachable fittings is not allowed.

They must be replaced by a certified Parker distributor with crimped fittings within 2 working days.

## ESH250Plus & ESH250Plus2 – Sewer cleaning hose



### CONSTRUCTION

**Core tube** : Thermoplast  
**Pressure reinforcement** : High tensile synthetic fiber

**Cover** : Polyurethane,  
**Standard colour** : Green

**TEMPERATURE RANGE** -10°C up to +50°C

Design Factor >2:1

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
ESH250Plus-08	12	-08	12.4	1/2	21.2	25	3,625	62.5	9,060	100	0.24
ESH250Plus-12	20	-12	19.0	3/4	28.6	25	3,625	62.5	9,060	125	0.40
ESH250Plus2-16	25	-16	25.4	1	36.5	25	3,625	62.5	9,060	150	0.60
ESH250Plus2-20	32	-20	32.0	1 1/4	46.0	25	3,625	62.5	9,060	225	1.00

### Ready-to-install assemblies (further lengths available upon request)

#	Length (m)								Fittings	
	Standard								BSP female swivel	BSP male
80	100	120	160	180	200	220	240			
ESH250Plus-08	•	•	•	•	•	•	•	G 1/2	G 1/2	
ESH250Plus-12	•	•	•	•	•	•	•	G 3/4	G 3/4	
ESH250Plus2-16	•	•	•	•	•	•	•	G 1	G 1	
ESH250Plus2-20	•	•	•	•	•	•	•	G 1 1/4	G 1 1/4	

### NOTES

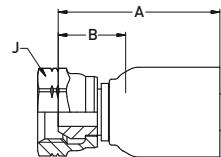
- Standard available hose assemblies see table above. Ordering example: ESH250Plus-12-160
- Crimp your own assembly: ESH250Plus(2) available as bulk hose on a drum
- Crimp on a Parkrimp system or on a free adjustable crimpler
- To crimp ES fittings -16 and -20 use Parkrimp dies 80C-F16ES and 80C-F20ES

Hoses with design factor >2:1

192EH/ES – 1D9EH/ES

## 192EH/ES – BSP female swivel (60° cone)

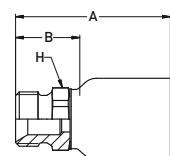
**MATERIAL** Steel, zinc plated



#	O			~~~~~	A	B	J			
	DN	size	mm	inch	mm	mm	mm	MPa	psi	
192EH-08-08	12	-08	12.8	1/2	G 1/2	57	22	27	25	3,625
192EH-12-12	20	-12	19.6	3/4	G 3/4	61	22	32	25	3,625
192ES-16-16	25	-16	25.0	1	G 1	73	25	41	25	3,625
192ES-20-20	32	-20	32.0	1 1/4	G 1 1/4	80	32	50	25	3,625

## 1D9EH/ES – BSP male

**MATERIAL** Steel, zinc plated

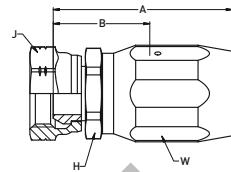


#	O			~~~~~	A	B	H			
	DN	size	mm	inch	mm	mm	mm	MPa	psi	
1D9EH-08-08	12	-08	12.8	1/2	G 1/2	64	30	27	25	3,625
1D9EH-12-12	20	-12	19.6	3/4	G 3/4	68	29	32	25	3,625
1D9ES-16-16	25	-16	25.0	1	G 1	88	40	36	25	3,625
1D9ES-20-20	32	-20	32.0	1 1/4	G 1 1/4	93	45	50	25	3,625

## 292EJ – BSP female swivel (60° cone)

Field attachable fitting

**MATERIAL** Steel, zinc plated

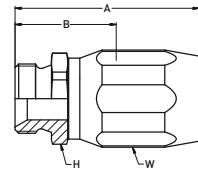


#	DN	size	mm	inch		A	B	H	J	W	MPa	psi
292EJ-8-08	12	-08	12.8	1/2	G 1/2	71	33	27	27	27	18	2,610
292EJ-12-12	20	-12	19.6	3/4	G 3/4	82	37	32	32	36	18	2,610
292EJ-16-16	25	-16	25.0	1	G 1	89	48	41	41	46	18	2,610
292EJ-20-20	32	-20	32.0	1 1/4	G 1 1/4	112	59	50	50	55	18	2,610

## 2D9EJ – BSP male

Field attachable fitting

**MATERIAL** Steel, zinc plated



#	DN	size	mm	inch		A	B	H	W		MPa	psi
2D9EJ-8-08	12	-08	12.8	1/2	G 1/2	70	32	27	27	18	2,610	
2D9EJ-12-12	20	-12	19.6	3/4	G 3/4	83	38	32	36	18	2,610	
2D9EJ-16-16	25	-16	25.0	1	G 1	91	50	41	46	18	2,610	
2D9EJ-20-20	32	-20	32.0	1 1/4	G 1 1/4	112	59	50	55	18	2,610	

### Safety Note:

Field attachable fittings are to be used for repair in field only.

A continuous use of field attachable fittings is not allowed.

They must be replaced by a certified Parker distributor with crimped fittings within 2 working days.

Hoses with design factor >2:1

## 2240D-Tough Cover

### 2240D-TOUGH COVER* – High pressure hose



#### CONSTRUCTION

Core tube : Polyoxymethylene

Pressure reinforcement : Two spiral layers of high tensile steel wire

Cover : Polyamide

Standard colour : blue

#### TEMPERATURE RANGE

-10°C up to +70°C

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2240D-02V32-TC	3	-02	3.0	1/8	7.0	110	15,950	275	39,875	60	0.07
2240D-025V32-TC	4	-025	4.0	5/32	7.7	120	17,400	300	43,500	75	0.10
2240D-03V32-TC	5	-03	4.8	3/16	9.5	110	15,950	250	36,250	95	0.13
2240D-04V32-TC	6	-04	6.4	1/4	11.5	110	15,950	275	39,875	110	0.20

#### NOTES

* Non TOUGH COVER Versions available on request.

## 2248D-TOUGH COVER* – High pressure hose



### CONSTRUCTION

**Core tube** : Polyoxymethylene

**Pressure reinforcement** : Two spiral layers of high tensile steel wire

**Cover** : Polyamide

**Standard colour** : blue

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2248D-025V32-TC	4	-025	4.0	5/32	7.9	150	21,750	375	54,375	75	0.10
2248D-03V32-TC	5	-03	4.9	3/16	9.5	140	20,300	350	50,750	95	0.14
2248D-05V32-TC	8	-05	8.1	5/16	13.4	100	14,500	250	36,250	120	0.25

### NOTES

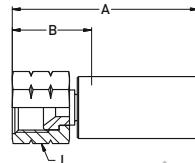
* Non TOUGH COVER Versions available on request.

Hoses with design factor >2:1

## 106TX - 1AYTX

### 106TX – JIC female swivel

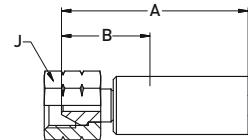
**MATERIAL** Carbon steel zinc plated



#	O				J			Nipple		Nipple ID	Ferrule OD	
	DN	size	mm	inch		A	B	MPa	psi	mm	mm	
106TX-4-025W	4	-025	4.0	5/32	7/16-20 UNF	44	21	17	150	21,750	2.3	9.9
106TX-6-03W	5	-03	4.8	3/16	9/16-18 UNF	48	25	19	140	20,300	2.8	12.0
106TX-6-04W	6	-04	6.4	1/4	9/16-18 UNF	53	26	19	110	15,950	3.8	13.6

### 1AYTX – Type "M" female swivel

**MATERIAL** Carbon steel zinc plated

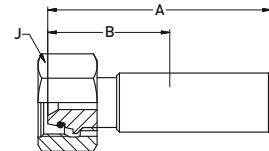


#	O				J			Nipple		Nipple ID	Ferrule OD	
	DN	size	mm	inch		A	B	MPa	psi	mm	mm	
1AYTX-6-02W	3	-02	3.0	1/8	9/16-18 UNF	47	28	19	110	15,950	1.6	9.1
1AYTX-6-025W	4	-025	4.0	5/32	9/16-18 UNF	45	23	19	150	21,750	2.3	9.9
1AYTX-6-03W	5	-03	4.8	3/16	9/16-18 UNF	50	23	19	150	21,750	2.8	12.0
1AYTX-6-04W	6	-04	6.4	1/4	9/16-18 UNF	52	25	19	110	15,950	3.8	13.6
1AYTX-8-05W	8	-05	7.9	5/16	3/4-16 UNF	64	30	27	100	14,500	4.8	16.1

Hoses with design factor &gt;2:1

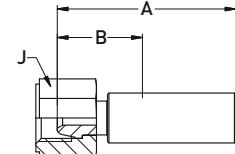
**1C9TX - 1U0TX**

## **1C9TX – Metric female swivel heavy series with O-ring**

**MATERIAL** Carbon steel zinc plated**NOTE** DN4-6 with support ferrule – DN3 and 8 without support ferrule

#	O				A	B	J			Nipple ID	Ferrule OD
	DN	size	mm	inch				mm	MPa	psi	
<b>1C9TX-16-02W</b>	3	-02	3.0	1/8	M24x1.5	60	39	30	110	15,950	1.6
<b>1C9TX-16-025W</b>	4	-025	4.0	5/32	M24x1.5	66	35	30	150	21,750	2.3
<b>1C9TX-16-03W</b>	5	-03	4.8	3/16	M24x1.5	74	42	30	150	21,750	2.8
<b>1C9TX-10-04W</b>	6	-04	6.4	1/4	M18x1.5	60	33	22	110	15,950	3.8
<b>1C9TX-16-04W</b>	6	-04	6.4	1/4	M24x1.5	70	44	30	110	15,950	3.8
<b>1C9TX-12-05W</b>	8	-05	7.9	5/16	M20x1.5	70	31	24	100	14,500	4.8
<b>1C9TX-14-05W</b>	8	-05	7.9	5/16	M22x1.5	68	29	27	100	14,500	4.8
<b>1C9TX-16-05W</b>	8	-05	7.9	5/16	M24x1.5	71	38	30	100	14,500	4.8

## **1U0TX – BSP female swivel (ballnose)**

**MATERIAL** Carbon steel zinc plated

#	O				A	B	J			Nipple ID	Ferrule OD
	DN	size	mm	inch				mm	MPa	psi	
<b>1U0TX-2-02W</b>	3	-02	3.0	1/8	G 1/8	36	18	12	110	15,950	1.6
<b>1U0TX-4-02W</b>	3	-02	3.0	1/8	G 1/4	44	22	17	110	15,950	1.6
<b>1U0TX-4-025W</b>	4	-025	4.0	5/32	G 1/4	45	23	17	150	21,750	2.3
<b>1U0TX-4-03W</b>	5	-03	4.7	3/16	G 1/4	49	23	17	150	21,750	2.8
<b>1U0TX-4-04W</b>	6	-04	6.3	1/4	G 1/4	51	25	17	110	15,950	3.8
<b>1U0TX-6-05W</b>	8	-05	7.9	5/16	G 3/8	60	26	27	100	14,500	4.8

Design Factor &gt;2:1

Hoses with design factor >2:1

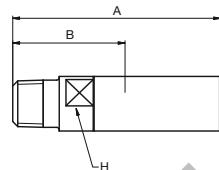
## 101TX – 102TX

### 101TX – National Pipe Tapered (NPT) male

#### MATERIAL

Version “-PL”:  
Inside nipple:

Shell incl. connection: Stainless steel  
Carbon steel zinc plated

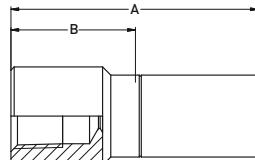


#	O			~~~~~	A	B	H	~~~~~	Nipple ID	Ferrule OD
	DN	size	mm	inch						
101TX-1-02-PL	3	-02	3.0	1/8	1/16-27 NPT	27	11	-	103.4	15,000
101TX-2-02-PL	3	-02	3.0	1/8	1/8-27 NPT	24	11	-	103.4	15,000
101TX-1-025-PL	4	-025	4.0	5/32	1/16-27 NPT	24	11	-	103.4	15,000
101TX-2-025-PL	4	-025	4.0	5/32	1/8-27 NPT	27	11	-	103.4	15,000
101TX-4-025-PL	4	-025	4.0	5/32	1/4-18 NPT	32	16	-	103.4	15,000
101TX-2-03-PL	5	-03	4.8	3/16	1/8-27 NPT	27	12	-	103.4	15,000
101TX-4-03-PL	5	-03	4.8	3/16	1/4-18 NPT	31	16	-	103.4	15,000
101TX-2-04-PL	6	-04	6.4	1/4	1/8-27 NPT	29	12	-	103.4	15,000
101TX-4-04-PL	6	-04	6.4	1/4	1/4-18 NPT	33	16	-	103.4	15,000
101TX-4-05-PL	8	-05	7.9	5/16	1/4-18 NPT	36	14	-	103.4	15,000
101TX-6-05-PL	8	-05	7.9	5/16	3/8-18 NPT	38	16	-	103.4	15,000

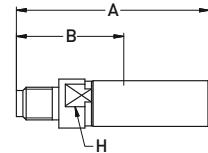
### 102TX – National Pipe Tapered (NPT) female

#### MATERIAL

Standard Version: Carbon steel zinc plated  
Version “-PL”:  
Inside nipple: Carbon steel zinc plated



#	O			~~~~~	A	B	R	~~~~~	Nipple ID	Ferrule OD
	DN	size	mm	inch						
102TX-1-025-PL	4	-025	4.0	5/32	1/16-27 NPT	37	22	9	103.4	15,000
102TX-1-03-PL	5	-03	4.8	3/16	1/16-27 NPT	37	22	9	103.4	15,000
102TX-2-03W	5	-03	4.8	3/16	1/8 NPT	50	23	14	103.4	15,000
102TX-4-04-PL	6	-04	6.4	1/4	1/4-18 NPT	45	28	12	103.4	15,000

**1YZTX - Metric male nozzle nipple****MATERIAL**

Standard Version: Carbon steel zinc plated  
 Version "-PL": Shell incl. connection: Stainless steel  
 Inside nipple: Carbon steel zinc plated

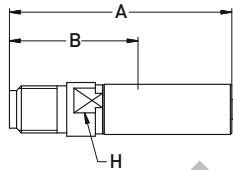
#	O		~~~~~		A mm	B mm	H mm	~~~~~		Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch				MPa	psi		
1YZTX-1-02WS	3	-02	3.0	1/8	M5	49	28	6	110	15,950	1.6
1YZTX-2-02W	3	-02	3.0	1/8	M7	49	28	7	110	15,950	1.6
1YZTX-1-025W	4	-025	4.0	5/32	M5	51	29	8	150	21,750	2.3
1YZTX-2-025-PL	4	-025	4.0	5/32	M7	38	23	8	150	21,750	1.8
1YZTX-4-025W	4	-025	4.0	5/32	M8	53	30	8	150	21,750	2.3
1YZTX-5-025-PL	4	-025	4.0	5/32	M10x1	32	17	9	150	21,750	1.8
1YZTX-2-03W	5	-03	4.8	3/16	M7	55	28	10	150	21,750	2.8
1YZTX-4-03W	5	-03	4.8	3/16	M8	53	28	10	150	21,750	2.8
1YZTX-5-04W	6	-04	6.4	1/4	M10x1	59	33	13	110	15,950	3.8
1YZTX-5-05W	8	-05	7.9	5/16	M10x1	68	34	13	100	14,500	4.8
											16.1

Design Factor &gt;2:1

Hoses with design factor >2:1

## 1YBTX - 1YHTX

### 1YBTX – BSP male nozzle nipple

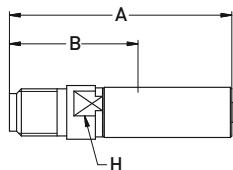


#### MATERIAL

Standard Version: Carbon steel zinc plated  
 Version “-PL”: Shell incl. connection: Stainless steel  
 Inside nipple: Carbon steel zinc plated

#	O				~~~~~	A	B	H	Nipple		Ferrule ID	Ferrule OD
	DN	size	mm	inch					MPa	psi		
1YBTX-2-02W	3	-02	3.0	1/8	G 1/8	48	27	8	110	15,950	1.6	9.1
1YBTX-2-025W	4	-025	4.0	5/32	G 1/8	53	30	8	150	21,750	2.3	9.9
1YBTX-4-025W	4	-025	4.0	5/32	G 1/4	54	30	10	150	21,750	2.3	9.9
1YBTX-2-03-PL	5	-03	4.8	3/16	G 1/8"	34	19	10	140	20,300	2.8	12.0
1YBTX-4-03W	5	-03	4.8	3/16	G 1/4	58	31	10	150	21,750	2.8	12.0
1YBTX-2-04-PL	6	-04	6.4	1/4	G 1/8"	36	19	10	110	15,950	3	13.6
1YBTX-4-04-PL	6	-04	6.4	1/4	G 1/4"	39	22	11	110	15,950	3	13.6
1YBTX-4-05-PL	8	-05	7.9	5/16	G 1/4"	41	21	12	100	14,500	4.5	16.1
1YBTX-6-05W	8	-05	7.9	5/16	G 3/8	71	37	17	100	14,500	4.8	16.1

### 1YHTX – UNF male nozzle nipple



#### MATERIAL

Standard Version: Carbon steel zinc plated  
 Version “-PL”: Shell incl. connection: Stainless steel  
 Inside nipple: Carbon steel zinc plated

#	O				~~~~~	A	B	H	Nipple		Ferrule ID	Ferrule OD
	DN	size	mm	inch					MPa	psi		
1YHTX-4-025-PL	4	-025	4.0	5/32	1/4-28 UNF	40	24	8	150	21,750	1.8	9.9
1YHTX-4-025W-LH	4	-025	4.0	5/32	1/4 - 28 UNF LH	47	23	8	150	21,750	2.3	9.9
1YHTX-6-03-PL	5	-03	4.8	3/16	3/8-24 UNF	34	19	9	140	20,300	2.8	12.0
1YHTX-6-03W-LH	5	-03	4.8	3/16	3/8 - 24 UNF LH	54	28	11	150	21,750	2.8	12.0
1YHTX-6-04W	6	-04	6.4	1/4	3/8 - 24 UNF	56	29	11	150	21,750	3.8	13.6
1YHTX-6-04W-LH	6	-04	6.4	1/4	3/8 - 24 UNF LH	56	29	11	150	21,750	3.8	13.6
1YHTX-6-05W	8	-05	7.9	5/16	3/8 - 24 UNF	65	33	13	150	21,750	4.8	16.1
1YHTX-6-05W-LH	8	-05	7.9	5/16	3/8 - 24 UNF LH	65	33	13	150	21,750	4.8	16.1

## 2244N – High pressure hose



### CONSTRUCTION

**Core tube** : Polyamide

**Pressure reinforcement** : Two spiral layers, one braided layer of high tensile steel wire

**Cover** : Polyurethane

**Standard colour** : Black

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

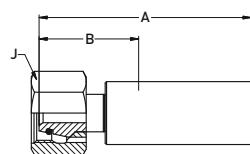
#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2244N-06V10W	10	-06	9.7	3/8	18.0	86	12,470	215	31,175	120	0.50
2244N-08V10W	12	-08	12.8	1/2	22.7	88	12,760	220	31,900	150	0.80

### NOTES

-

Hoses with design factor >2:1  
1C9KX / 1C9LX – 192KX / 192LX

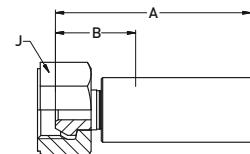
## 1C9KX / 1C9LX – Metric female swivel heavy series with O-ring



**MATERIAL** Special materials

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD
1C9KX-14-06W	10	-06	9.5	3/8	M22x1.5	79	37	27	86 12,470 7.0 23.5
1C9LX-16-08	12	-08	12.7	1/2	M24x1.5	88	34	30	130 18,850 6.8 30.0

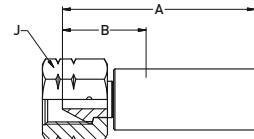
## 192KX / 192LX – BSP female swivel (60° cone)



**MATERIAL** Special materials

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD
192KX-6-06W	10	-06	9.5	3/8	G3/8	72	29	22	86 12,470 7.0 23.5
192LX-8-08	12	-08	12.7	1/2	G1/2	75	21	30	130 18,850 6.7 30.7

Hoses with design factor &gt;2:1

**1AYKX / 1AYLX****1AYKX / 1AYLX – Type "M" female swivel****MATERIAL** Special materials

#	DN	size	mm	inch	~~~~~	A	B	J	MPa	psi	Nipple ID	Ferrule OD
						mm	mm	mm			mm	mm
<b>1AYKX-8-06W</b>	10	-06	9.5	3/8	3/4 - 16UNF	74	32	27	86	12,470	7.0	23.5
<b>1AYLX-11-08</b>	12	-08	12.7	1/2	1 - 12 UNF	80	27	32	130	18,850	6.7	30.7

Design Factor &gt;2:1

Hoses with design factor >2:1

2380N

## 2380N – High pressure hose



### CONSTRUCTION

Core tube : Polyamide

Pressure reinforcement : Two spiral layers and two open spiral layers of high tensile steel wire

Cover : Polyurethane

Standard colour : Black

### TEMPERATURE RANGE

-10°C up to +70°C

Version -HT: -10°C up to +100°C

Design Factor >2:1

#	O				mm	MPa	psi	MPa	psi	mm	kg/m
	DN	size	mm	inch							
2380N-025V10W	4	-025	4.0	5/32	9.7	140	20,300	350	50,750	55	0.16
2380N-04V00W	6	-04	6.3	1/4	13.4	110	15,950	280	40,600	70	0.28
2380N-05V00W	8	-05	8.3	5/16	15.8	100	14,500	250	36,250	90	0.35
2380N-06V50-HT	10	-06	9.7	3/8	17.9	70	10,150	175	25,375	120	0.44

### NOTES

-

## 2388N – High pressure hose



### CONSTRUCTION

**Core tube** : Polyamide

**Pressure reinforcement** : Two spiral layers and two open spiral layers of high tensile steel wire

**Cover** : Polyurethane

**Standard colour** : Blue

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

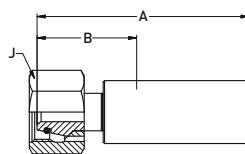
#	DN	size mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m	
2388N-04V12W	6	-04	6.3	1/4	13.4	128	18,560	320	46,400	80	0.30

### NOTES

-

Hoses with design factor >2:1  
1C98X / 1C9KY – 1928X / 192KY

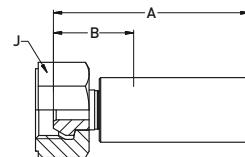
## 1C98X / 1C9KY – Metric female swivel heavy series with O-ring



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#							A mm	B mm	J 			Nipple ID mm	Ferrule OD mm	
	DN	size	mm	inch	mm	MPa	psi			mm	psi			
1C98X-8-025	4	-025	4.0	5/32	M16x1.5	54	27	19	150	21,750	2.3	13.2		
1C98X-8-025C	4	-025	4.0	5/32	M16x1.5	54	27	19	150	21,750	2.3	13.2		
1C9KY-10-04	6	-04	6.4	1/4	M18x1.5	68	36	22	110	15,950	3.8	18.0		
1C9KY-16-04	6	-04	6.4	1/4	M24x1.5	70	44	30	110	15,950	3.8	18.0		
1C9KY-12-05	8	-05	7.9	5/16	M20x1.5	70	31	24	100	14,500	4.9	20.0		
1C9KY-14-05	8	-05	7.9	5/16	M22x1.5	68	29	27	100	14,500	4.9	20.0		
1C9KY-16-05	8	-05	7.9	5/16	M24x1.5	77	38	30	100	14,500	4.9	20.0		

## 1928X / 192KY – BSP female swivel (60° cone)

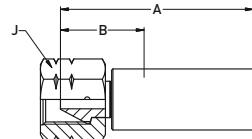


**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#							A mm	B mm	J 			Nipple ID mm	Ferrule OD mm	
	DN	size	mm	inch	mm	MPa	psi			mm	psi			
1928X-4-025	4	-025	4.0	5/32	G 1/4	48	20	19	140	20,300	2.3	13.2		
192KY-6-05	8	-05	7.9	5/16	G 3/8	64	25	27	100	14,500	4.9	20.0		

Hoses with design factor >2:1  
1AY8X / 1AYKY - 1YMKY - 1Y4KY

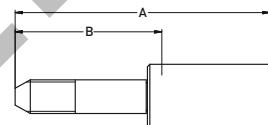
## 1AY8X / 1AYKY – Type “M” female swivel



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#	Ø	~~~~~	A	B	J	Nipple ID	Ferrule OD
	DN size mm inch		mm	mm	mm	MPa psi	mm mm
1AY8X-6-025	4 -025 4.0 5/32	9/16 - 18 UNF	56	28	19	140 20,300	2.3 13.2
1AYKY-6-04	6 -04 6.4 1/4	9/16 - 18UNF	61	30	22	110 15,950	3.8 18.0
1AYKY-8-05	8 -05 7.9 5/16	3/4 - 16UNF	70	31	27	100 14,500	4.9 20.0

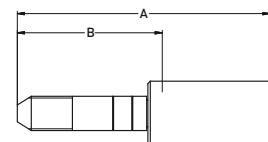
## 1YMKY – High pressure tube nipple metric – LH thread



**MATERIAL** High strength carbon steel, zinc plated

#	Ø	~~~~~	A	B	Nipple ID	Ferrule OD
	DN size mm inch		mm	mm	MPa psi	mm mm
1YMKY-6-05	8 -05 7.9 5/16	M14x1.5-LH	100	61	100 14,500	4.9 20.0

## 1Y4KY – High pressure tube nipple UNF – LH thread



**MATERIAL** Special materials

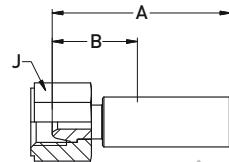
#	Ø	~~~~~	A	B	Nipple ID	Ferrule OD
	DN size mm inch		mm	mm	MPa psi	mm mm
1Y4KY-9-05	8 -05 7.9 5/16	9/16 - 18UNF-LH	100	61	100 14,500	4.9 20.0

Hoses with design factor >2:1

1U0KY – 1D9KY

## 1U0KY – BSP female swivel (ballnose)

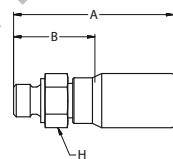
**MATERIAL** Carbon steel zinc plated, C: Stainless steel



#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD	
1U0KY-4-04	6	-04	6.3	1/4	G 1/4	51	25	17	110 15,950	3.8 18.0

## 1D9KY – BSP male

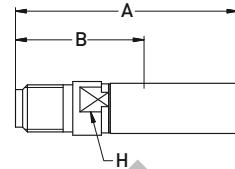
**MATERIAL** Carbon steel, zinc plated, C: Stainless steel



#	DN	size	mm	inch	A	B	H	Nipple ID	Ferrule OD	
1D9KY-4-04	6	-04	6.3	1/4	G 1/4	62	36	19	110 15,950	3.8 18.0

## 1YBKY - BSP male nozzle nipple

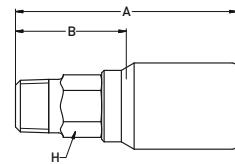
**MATERIAL** Carbon steel zinc plated, C: Stainless steel



#					A	B				Nipple ID	Ferrule OD	
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm	
1YBKY-4-04	6	-04	6.4	1/4	G 1/4	62	36	10	110	15,950	3.8	18.0
1YBKY-4-05	8	-05	7.9	5/16	G 1/4	68	35	13	100	14,500	4.9	20.0
1YBKY-6-05	8	-05	7.9	5/16	G 3/8	71	37	17	100	14,500	4.9	20.0

## 1018X / 101KY - National Pipe Tapered (NPT) male

**MATERIAL** Carbon steel zinc plated, C: Stainless steel



#					A	B				Nipple ID	Ferrule OD	
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm	
1018X-2-025	4	-025	4.0	5/32	1/8 NPT	51	24	8	103.4	15,000	2.3	13.2
1018X-4-025	4	-025	4.0	5/32	1/4 NPT	59	32	13	103.4	15,000	2.3	13.2
101KY-4-04	6	-04	6.4	1/4	1/4 NPT	62	35	13	103.4	15,000	3.8	18.0
101KY-4-05	8	-05	7.9	5/16	1/4 NPT	69	35	13	103.4	15,000	4.9	20.0
101KY-6-05	8	-05	7.9	5/16	3/8 NPT	69	35	17	103.4	15,000	4.9	20.0

## 1TMBS - Polyflex Lok components



#	Description
1TMBS-8-05-HPK	Fitting for DN8 hoses incl. caps (refer to chapter D)

Hoses with design factor >2:1

2380M

## 2380M – High pressure hose



### CONSTRUCTION

Core tube : Polyamide

Pressure reinforcement : Two spiral layers and two open spiral layers of high tensile steel wire

Cover : Polyurethane

Standard colour : Black

### TEMPERATURE RANGE

-10°C up to +120°C

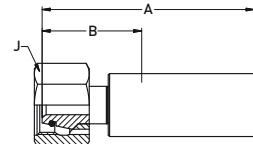
#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2380M-04V30W	6	-04	6.3	1/4	15.8	110	15,950	280	40,600	70	0.28
2380M-05V30W	8	-05	8.3	5/16	15.8	100	14,500	250	36,250	90	0.35

### NOTES

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## 1C9KX – Metric female swivel heavy series with O-ring

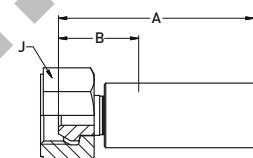
**MATERIAL** Carbon steel, zinc plated



#					A	B			Nipple ID	Ferrule OD		
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm	
1C9KX-10-04W	6	-04	6.4	1/4	M18x1.5	68	36	22	110	15,950	4.0	17.4
1C9KX-16-05W	8	-05	7.9	5/16	M24x1.5	77	38	30	100	14,500	5.3	20.2

## 192KX – BSP female swivel (60° cone)

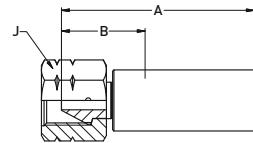
**MATERIAL** Carbon steel, zinc plated



#					A	B			Nipple ID	Ferrule OD		
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm	
192KX-4-04W	6	-04	6.4	1/4	G 1/4	56	25	19	110	15,950	4.0	17.4
192KX-6-05W	8	-05	7.9	5/16	G 3/8	64	25	27	100	14,500	5.3	20.2

## 1AYKX – Type "M" female swivel

**MATERIAL** Carbon steel, zinc plated



#					A	B			Nipple ID	Ferrule OD		
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm	
1AYKX-6-04W	6	-04	6.4	1/4	9/16 - 18UNF	61	30	22	110	15,950	4.0	17.4
1AYKX-8-05W	8	-05	7.9	5/16	3/4 - 16UNF	70	31	27	100	14,500	5.3	20.2

Hoses with design factor >2:1

2388N

## 2388N – High pressure hose



### CONSTRUCTION

Core tube : Polyamide  
Pressure reinforcement : Two spiral layers and two open spiral layers of high tensile steel wire  
Cover : Polyurethane  
Standard colour : Blue

### TEMPERATURE RANGE

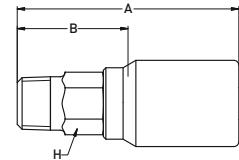
-10°C up to +70°C

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2388N-08V12W	12	-08	13.0	1/2	23.0	110	15,950	275	39,875	100	0.80

### NOTES

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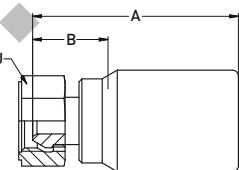
## 101BS – National Pipe Tapered (NPT) male



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#						A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
101BS-8-08	12	-08	12.7	1/2	1/2 NPT	93	40	22	103.5	15,000	7.6	28.5
101BS-8-08C	12	-08	12.7	1/2	1/2 NPT	93	40	22	103.5	15,000	7.6	28.5

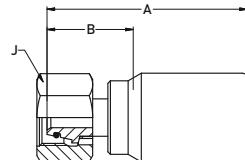
## 192BS – BSP female swivel (60° cone)



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#						A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
192BS-8-08	12	-08	12.7	1/2	G1/2	81	28	27	110	15,950	7.6	28.5
192BS-8-08C	12	-08	12.7	1/2	G1/2	81	28	27	110	15,950	7.6	28.5

## 1C9BS – Metric female swivel heavy series with O-ring



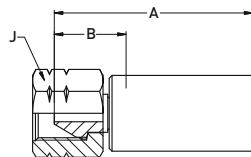
**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#						A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1C9BS-14-08	12	-08	12.7	1/2	M22x1.5	89	36	27	110	15,950	7.6	28.5
1C9BS-14-08C	12	-08	12.7	1/2	M22x1.5	89	36	27	110	15,950	7.6	28.5
1C9BS-16-08	12	-08	12.7	1/2	M24x1.5	89	36	30	110	15,950	7.6	28.5
1C9BS-16-08C	12	-08	12.7	1/2	M24x1.5	89	36	30	110	15,950	7.6	28.5

Hoses with design factor >2:1

## 1AYBS – 1TMBS

### 1AYBS – Type "M" female swivel



**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
1AYBS-11-08	12	-08	12,7	1/2	1 - 12 UNF	77	31	32	110	15,950	7,6	28,5
1AYBS-11-08C	12	-08	12,7	1/2	1 - 12 UNF	77	31	32	110	15,950	7,6	28,5

### 1TMBS – Polyflex Lok components



#	Description
1TMBS-9-08-HPK	Fitting for DN12 hoses incl. caps (refer to chapter D)

## 2580N – High pressure hose



### CONSTRUCTION

**Core tube** : Polyamide

**Pressure reinforcement** : Four spiral layers and two open spiral layers of high tensile steel wire

**Cover** : Polyurethane

**Standard colour** : Dark blue

### TEMPERATURE RANGE

-10°C up to +70°C

Version -HT: -10°C up to +100°C

Design Factor >2:1

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2580N-06V12	10	-06	9.8	3/8	21.6	160	23,200	400	58,000	95	0.94
2580N-08V12	12	-08	12.9	1/2	25.0	140	20,300	350	50,750	150	1.19
2580N-12V12	20	-12	19.8	3/4	32.6	120	17,400	300	43,500	170	1.76
2580N-08V52-HT	12	-08	12.9	1/2	25.0	110	15,950	275	39,875	150	1.19

### NOTES

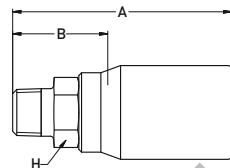
-

Hoses with design factor >2:1

101BL – 192BL

## 101BL – National Pipe Tapered (NPT) male

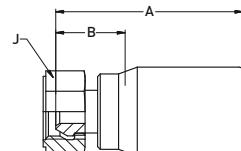
**MATERIAL** Carbon steel, zinc plated, C: Stainless steel



#	O				~~~~~		A	B	H	~~~~~		Nipple ID	Ferrule OD
	DN	size	mm	inch	mm	MPa				mm	psi		
101BL-6-06	10	-06	9.5	3/8	3/8 NPT	80	35	22	103.4	15,000	5.5	28.5	
101BL-8-08	12	-08	12.7	1/2	1/2 NPT	90	45	22	103.4	15,000	7.5	30.5	
101BL-8-08C	12	-08	12.7	1/2	1/2 NPT	90	45	22	103.4	15,000	7.5	30.5	
101BL-12-12	20	-12	19.0	3/4	3/4 NPT	98	45	30	103.4	15,000	12.5	39.8	

## 192BL – BSP female swivel (60° cone)

**MATERIAL** Carbon steel, zinc plated, C: Stainless steel



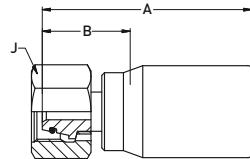
#	O				~~~~~		A	B	J	~~~~~		Nipple ID	Ferrule OD
	DN	size	mm	inch	mm	MPa				mm	psi		
192BL-6-06	10	-06	9.5	3/8	G3/8	68	24	22	160	23,200	5.5	28.5	
192BC-8-06	10	-06	9.5	3/8	G1/2	71	26	27	160	23,200	5.5	28.5	
192BL-8-08	12	-08	12.7	1/2	G1/2	71	26	27	140	20,300	7.5	30.5	
192BL-8-08C	12	-08	12.7	1/2	G1/2	71	26	27	140	20,300	7.5	30.5	
192BL-16-12	20	-12	19.0	3/4	G1	82	28	41	120	17,400	12.5	39.8	

Hoses with design factor &gt;2:1

1C9BL - 1AYBL - 1TMBL

## 1C9BL – Metric female swivel heavy series with O-ring

**MATERIAL** Carbon steel, zinc plated, C: Stainless steel

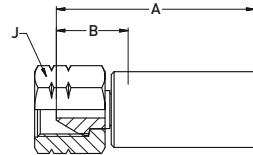


#	O		~~~~~	O	A	B	J	MPa	psi	Nipple ID	Ferrule OD
	DN	size	mm	inch	mm	mm	mm	mm	mm	mm	mm
1C9BL-14-06	10	-06	9.5	3/8	M22 x 1.5	14	80	36	30	160	23,200
1C9BL-16-06	10	-06	9.5	3/8	M24 x 1.5	16	84	36	30	160	23,200
1C9BL-14-08	12	-08	12.7	1/2	M22 x 1.5	14	80	36	27	140	20,300
1C9BL-14-08C	12	-08	12.7	1/2	M22 x 1.5	14	80	36	27	140	20,300
1C9BL-16-08	12	-08	12.7	1/2	M24 x 1.5	16	80	36	30	140	20,300
1C9BL-16-08C	12	-08	12.7	1/2	M24 x 1.5	16	80	36	30	140	20,300
1C9BL-25-12	20	-12	19.0	3/4	M36 x 2.0	25	97	44	46	120	17,400

Design Factor &gt;2:1

## 1AYBL – Type "M" female swivel

**MATERIAL** Carbon steel, zinc plated, C: Stainless steel



#	O		~~~~~	A	B	J	MPa	psi	Nipple ID	Ferrule OD
	DN	size	mm	inch	mm	mm	mm	mm	mm	mm
1AYBL-11-06	10	-06	9.5	3/8	1 - 12 UNF	77	31	32	160	23,200
1AYBL-11-08	12	-08	12.7	1/2	1 - 12 UNF	77	31	32	140	20,300
1AYBL-11-08C	12	-08	12.7	1/2	1 - 12 UNF	77	31	32	140	20,300

## 1TMBL – Polyflex Lok components



#	Description
1TMBL-9-08-HPK	Fitting for DN12 hoses incl. caps (refer to chapter D)

Hoses with design factor >2:1

2440D / 2440N

## 2440D / 2440N – Ultra-high pressure hose



### CONSTRUCTION

Core tube : DN 3-8: Polyoxymethylene; DN 10-25: Polyamide

Pressure reinforcement : Four spiral layers of maximum tensile steel wire

Cover : Polyamide

Standard colour : DN 3-8: blue; DN 10-25: black

### TEMPERATURE RANGE

-10°C up to +70°C

Version -HT: -10°C up to +100°C

Design Factor >2:1

#	O				mm	MPa	psi	MPa	psi	mm	kg/m
	DN	size	mm	inch							
2440D-02V32	3	-02	3.0	1/8	7.9	207	30,000	518	75,000	100	0.12
2440D-025V32	4	-025	4.0	5/32	10.4	220	31,900	550	79,750	100	0.21
2440D-03V32	5	-03	4.8	3/16	11.5	180	26,100	450	65,250	130	0.28
2440D-04V32	6	-04	6.4	1/4	12.5	164	23,780	410	59,450	155	0.33
2440D-05V32	8	-05	8.1	5/16	15.1	150	21,750	375	54,375	175	0.44
2440N-06V30	10	-06	9.7	3/8	19.4	140	20,300	350	50,750	190	0.73
2440N-08V30	12	-08	12.8	1/2	22.5	140	20,300	350	50,750	200	0.94
2440N-12V30	20	-12	19.6	3/4	30.0	100	14,500	250	36,250	250	1.39
2440N-16V30	25	-16	25.0	1	37.0	90	13,050	225	32,625	300	2.00
2440N-06V60-HT	10	-06	9.7	3/8	19.4	125	18,125	312	45,313	190	0.73

### NOTES

-

## 2440D-TOUGH COVER – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : DN 3-8: Polyoxymethylene; DN 10-12: Polyamide  
**Pressure reinforcement** : Four spiral layers of maximum tensile steel wire

**Cover** : Polyamide  
**Standard colour** : blue

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2440D-02V32-TC	3	-02	3.0	1/8	7.9	207	30.000	518	75.000	100	0.12
2440D-025V32-TC	4	-025	3.9	5/32	10.4	220	31,900	550	79,750	100	0.21
2440D-03V32-TC	5	-03	4.7	3/16	11.5	180	26,100	450	65,250	130	0.28
2440D-04V32-TC	6	-04	6.3	1/4	12.5	164	23,780	410	59,450	155	0.33
2440D-05V32-TC	8	-05	8.0	5/16	15.1	150	21,750	375	54,375	175	0.44
2440N-06V32-TC	10	-06	9.7	3/8	19.4	140	20,300	350	50,750	190	0.73
2440N-08V32-TC	12	-08	12.8	1/2	22.5	140	20,300	350	50,750	200	0.94

### NOTES

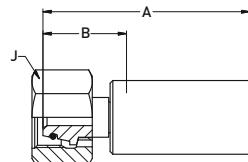
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Hoses with design factor >2:1

1C9LX

## 1C9LX – Metric female swivel heavy series with O-ring

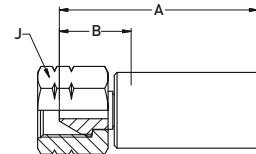
**MATERIAL** High strength carbon steel, zinc plated, C: Stainless steel



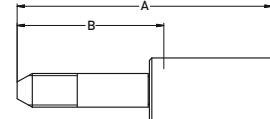
#	O			~~~~~		A	B	J	O		Nipple ID	Ferrule OD
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1C9LX-8-025	4	-025	4.0	5/32	M16x1.5	67	30	22	220	31,900	1.4	14.6
1C9LX-16-03	5	-03	4.8	3/16	M24x1.5	80	38	30	180	26,100	1.4	15.3
1C9LX-10-04	6	-04	6.4	1/4	M18x1.5	76	31	27	164	23,780	2.9	17.0
1C9LX-16-04	6	-04	6.4	1/4	M24x1.5	85	40	30	164	23,780	2.9	17.0
1C9LX-12-05	8	-05	7.9	5/16	M20x1.5	78	34	27	150	21,750	3.7	21.0
1C9LX-14-05	8	-05	7.9	5/16	M22x1.5	84	40	30	150	21,750	3.7	21.0
1C9LX-16-05	8	-05	7.9	5/16	M24x1.5	84	40	30	150	21,750	3.7	21.0
1C9LX-12-06	10	-06	9.5	3/8	M20x1.5	76	30	27	140	20,300	5.8	26.9
1C9LX-14-06	10	-06	9.5	3/8	M22x1.5	76	30	30	140	20,300	5.8	26.9
1C9LX-14-06C	10	-06	9.5	3/8	M22x1.5	76	30	30	140	20,300	5.8	26.9
1C9LX-16-06	10	-06	9.5	3/8	M24x1.5	80	34	30	140	20,300	5.8	26.9
1C9LX-16-06C	10	-06	9.5	3/8	M24x1.5	80	34	30	140	20,300	5.8	26.9
1C9LX-16-08	12	-08	12.7	1/2	M24x1.5	88	34	30	130	18,850	6.7	30.7
1C9LX-16-08C	12	-08	12.7	1/2	M24x1.5	88	34	30	130	18,850	6.7	30.7
1C9LX-25-12	20	-12	19.0	3/4	M36x2	92	39	46	100	14,500	12.7	38.5
1C9LX-25-12C4462	20	-12	19.0	3/4	M36x2	92	39	46	100	14,500	12.7	38.5
1C9LX-30-16	25	-16	25.4	1	M42x2	98	45	50	90	13,050	17.2	45.3
6C9LX-30-16C	25	-16	25.4	1	M42x2	118	52	50	90	13,050	17.2	45.3

Hoses with design factor &gt;2:1

6AYLX / 1AYLX - 1YMLX

**6AYLX / 1AYLX – Type “M” female swivel****MATERIAL** High strength carbon steel, zinc plated, C: Stainless steel

#					A	B	J			Nipple ID	Ferrule OD
	DN	size	mm	inch				mm	MPa	psi	
<b>1AYLX-6-02</b>	3	-02	3.0	1/8	9/16 - 18UNF	48	26	22	207	30,000	1.5
<b>6AYLX-6-2AC</b>	4	-025	4.0	5/32	9/16 - 18 UNF	64	33	17	301	43,645	1.6
<b>1AYLX-6-025</b>	4	-025	4.0	5/32	9/16 - 18 UNF	64	33	22	220	31,900	1.4
<b>1AYLX-6-03</b>	5	-03	4.8	3/16	9/16 - 18UNF	66	26	22	180	26,100	1.4
<b>1AYLX-6-03C</b>	5	-03	4.8	3/16	9/16 - 18 UNF	67	26	22	180	26,100	1.4
<b>1AYLX-6-04</b>	6	-04	6.4	1/4	9/16 - 18UNF	61	29	22	164	23,780	2.9
<b>1AYLX-6-04C</b>	6	-04	6.4	1/4	9/16 - 18UNF	61	29	22	164	23,780	2.9
<b>1AYLX-8-05</b>	8	-05	7.9	5/16	3/4 - 16UNF	74	30	27	150	21,750	3.7
<b>1AYLX-8-05C</b>	8	-05	7.9	5/16	3/4 - 16 UNF	70	31	27	150	21,750	3.7
<b>1AYLX-8-06</b>	10	-06	9.5	3/8	3/4 - 16UNF	70	26	27	140	20,300	5.8
<b>1AYLX-8-06C</b>	10	-06	9.5	3/8	3/4 - 16 UNF	70	25	27	140	20,300	5.8
<b>1AYLX-11-08</b>	12	-08	12.7	1/2	1 - 12 UNF	80	27	32	130	18,850	6.7
<b>1AYLX-11-08C</b>	12	-08	12.7	1/2	1 - 12 UNF	80	27	32	130	18,850	6.7
<b>1AYLX-16-12</b>	20	-12	19.0	3/4	1 5/16-12UNF	82	29	41	100	14,500	12.7
<b>6AYLX-16-16C</b>	25	-16	25.4	1	1 5/16 - 12 UNF	100	47	38	90	13,050	17.2
											45.3

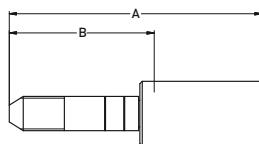
**1YMLX – High pressure tube nipple metric – LH thread****MATERIAL** High strength carbon steel, zinc plated, C: Stainless steel

#					A	B	J			Nipple ID	Ferrule OD	
	DN	size	mm	inch				mm	MPa	psi		
<b>1YMLX-6-05</b>	8	-05	7.9	5/16	M14x1.5-LH		110	66	150	21,750	3.7	
<b>1YMLX-11-08</b>	12	-08	12.7	1/2	M18x1.5-LH		120	65	250	36,250	6.7	
											30.7	

Hoses with design factor >2:1

1YALX / 1Y4LX

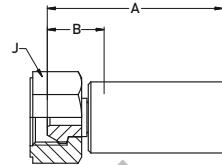
## 1YALX / 1Y4LX – High pressure tube nipple UNF – LH thread



**MATERIAL** Special materials, C: Stainless steel

#	DN	size	mm	inch	~~~~~	A	B	Nipple ID	Ferrule OD
						mm	mm	MPa	psi
1YALX-1-025	4	-025	4.0	5/32	1/4 - 28UNF-LH	87	50	220	31,900
1YALX-1-025C	4	-025	4.0	5/32	1/4 - 28UNF-LH	87	50	220	31,900
1YALX-3-025	4	-025	4.0	5/32	3/8 - 24UNF-LH	89	50	220	31,900
1YALX-1-03	5	-03	4.8	3/16	1/4 - 28UNF-LH	92	53	180	26,100
1YALX-1-03C	5	-03	4.8	3/16	1/4 - 28UNF-LH	92	53	180	26,100
1YALX-3-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	99	57	180	26,100
1YALX-3-03C	5	-03	4.8	3/16	3/8 - 24UNF-LH	99	57	180	26,100
1YALX-6-03	5	-03	4.8	3/16	9/16 - 18UNF-LH	108	67	180	26,100
1YALX-6-03C	5	-03	4.8	3/16	9/16 - 18UNF-LH	108	67	180	26,100
1YALX-3-04	6	-04	6.4	1/4	3/8 - 24UNF-LH	102	58	164	23,780
1YALX-6-04	6	-04	6.4	1/4	9/16 - 18UNF-LH	112	67	164	23,780
1YALX-3-05C	8	-05	7.9	5/16	3/8 - 24UNF-LH	103	59	150	21,750
1YALX-6-05	8	-05	7.9	5/16	9/16 - 18UNF-LH	110	66	150	21,750
1YALX-6-05C	8	-05	7.9	5/16	9/16 - 18UNF-LH	110	66	150	21,750
1YALX-6-06	10	-06	9.5	3/8	9/16 - 18UNF-LH	106	62	140	20,300
1YALX-6-06C	10	-06	9.5	3/8	9/16 - 18UNF-LH	106	62	140	20,300
1Y4LX-9-08	12	-08	12.7	1/2	9/16 - 18UNF-LH	124	70	140	20,300
1Y4LX-9-08C	12	-08	12.7	1/2	9/16 - 18UNF-LH	124	70	140	20,300

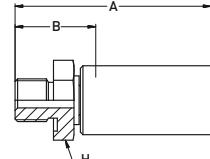
## 192LX / 692LX – BSP female swivel (60° cone)



**MATERIAL** High strength carbon steel, zinc plated, C: Stainless steel

#						A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch					MPa	psi		
192LX-4-03	5	-03	4.8	3/16	G 1/4	64	25	22	180	26,100	1.4	15.3
192LX-4-03C	5	-03	4.8	3/16	G 1/4	64	25	22	180	26,100	1.4	15.3
192LX-6-05	8	-05	7.9	5/16	G 3/8	69	25	27	150	21,750	3.7	21.0
192LX-6-05C	8	-05	7.9	5/16	G 3/8	69	25	27	150	21,750	3.7	21.0
192LX-8-06	10	-06	9.5	3/8	G 1/2	66	22	30	140	20,300	5.8	26.9
192LX-8-06C	10	-06	9.5	3/8	G 1/2	66	22	30	140	20,300	5.8	26.9
192LX-8-08	12	-08	12.7	1/2	G 1/2	75	21	30	130	18,850	6.7	30.7
192LX-8-08C	12	-08	12.7	1/2	G 1/2	75	21	30	130	18,850	6.7	30.7
192LX-12-08C	12	-08	12.7	1/2	G 3/4	85	30	32	130	18,850	6.7	30.7
192LX-16-12	20	-12	19.0	3/4	G 1	77	24	41	100	14,500	12.7	38.5
192LX-16-12C4462	20	-12	19.0	3/4	G 1	77	24	41	100	14,500	12.7	38.5
192LX-20-16	25	-16	25.4	1	G 1 1/4	78	25	50	90	13,050	17.2	45.3
692LX-16-16C	25	-16	25.4	1	G 1	78	25	50	90	13,050	17.2	45.3

## 1Y9LX – BSP male for USIT ring



**MATERIAL** High strength carbon steel, zinc plated, C: Stainless steel

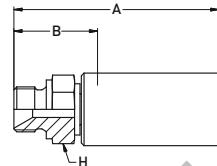
#						A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch					MPa	psi		
1Y9LX-4-03	5	-03	4.8	3/16	G 1/4	72	32	22	180	26,100	1.4	15.3
1Y9LX-4-03C	5	-03	4.8	3/16	G 1/4	72	32	22	180	26,100	1.4	15.3
1Y9LX-6-05	8	-05	7.9	5/16	G 3/8	82	38	27	150	21,750	3.7	21.0
1Y9LX-8-08	12	-08	12.7	1/2	G 1/2	87	32	36	130	18,850	6.7	30.7

Hoses with design factor >2:1

## 1D9LX – 1C3LX

### 1D9LX – BSP male

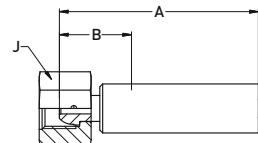
**MATERIAL** High strength carbon steel, zinc plated



#	O				~~~~~	A	B	H	~~~~~	Nipple ID	Ferrule OD	
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1D9LX-4-025	4	-025	4.0	5/32	G 1/4	73	36	19	220	31,900	1.4	14.6
1D9LX-4-03	5	-03	4.8	3/16	G 1/4	77	35	19	180	26,100	1.4	15.3
1D9LX-4-04	6	-04	6.4	1/4	G 1/4	80	36	19	164	23,780	2.9	17.0
1D9LX-4-05	8	-05	7.9	5/16	G 1/4	77	33	19	150	21,750	3.7	21.0
1D9LX-4-06	10	-06	9.5	3/8	G 1/4	76	30	19	140	20,300	5.8	26.9

### 1C3LX – Metric female swivel light series

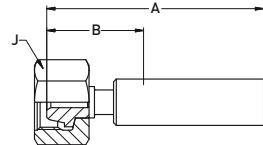
**MATERIAL** High strength carbon steel, zinc plated, C: Stainless steel



#	O				~~~~~	A	B	J	~~~~~	Nipple ID	Ferrule OD	
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1C3LX-8-025	4	-025	4.0	5/32	M14x1.5	63	26	22	220	31,900	1.4	14.6
1C3LX-8-03	5	-03	4.8	3/16	M14x1.5	64	25	22	180	26,100	1.4	15.3
1C3LX-8-03C	5	-03	4.8	3/16	M14x1.5	64	25	22	180	26,100	1.4	15.3
1C3LX-8-04	6	-04	6.4	1/4	M14x1.5	69	25	22	164	23,780	2.9	17.0
1C3LX-8-04C	6	-04	6.4	1/4	M14x1.5	69	25	22	164	23,780	2.9	17.0

## 1C6LX - Metric female swivel heavy series

**MATERIAL** High strength carbon steel, zinc plated

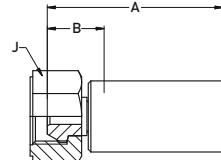


#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
					mm	mm	mm	MPa	psi	mm	mm	
1C6LX-12-05	8	-05	7.9	5/16	M20x1.5	78	34	27	150	21,750	3.7	21.0

Design Factor >2:1

## 1MRLX - Metric female swivel 59° cone

**MATERIAL** High strength carbon steel, zinc plated



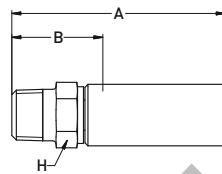
#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
					mm	mm	mm	MPa	psi	mm	mm	
1MRLX-6-03	5	-03	4.8	3/16	M12x1.5	92	53	17	180	26,100	1.4	15.3
1MRLX-8-03	5	-03	4.8	3/16	M14x1.5	66	26	22	180	26,100	1.4	15.3

Hoses with design factor >2:1

101LX / 601LX

## 101LX / 601LX – National Pipe Tapered (NPT) male

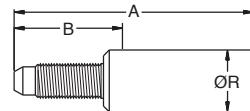
**MATERIAL** Special materials, C: Stainless steel



Design Factor >2:1

#	O			~~~~~	A	B	H	Nipple ID	Ferrule OD			
	DN	size	mm	inch						mm	mm	
101LX-4-03	5	-03	4.8	3/16	1/4 NPT	75	33	14	103.4	15,000	1.4	15.3
101LX-4-04	6	-04	6.4	1/4	1/4 NPT	80	36	14	103.4	15,000	2.9	17.0
101LX-4-04C	6	-04	6.4	1/4	1/4 NPT	80	36	14	103.4	15,000	2.9	17.0
101LX-6-04	6	-04	6.4	1/4	3/8 NPT	80	36	19	103.4	15,000	2.9	17.0
101LX-4-05	8	-05	7.9	5/16	1/4 NPT	76	31	14	103.4	15,000	3.7	21.0
101LX-4-05C	8	-05	7.9	5/16	1/4 NPT	76	31	14	103.4	15,000	3.7	21.0
101LX-6-05	8	-05	7.9	5/16	3/8 NPT	75	35	19	103.4	15,000	3.7	21.0
101LX-6-05C	8	-05	7.9	5/16	3/8 NPT	81	36	19	103.4	15,000	3.7	21.0
101LX-6-06	10	-06	9.5	3/8	3/8 NPT	76	30	19	103.4	15,000	5.8	26.9
101LX-8-06	10	-06	9.5	3/8	1/2 NPT	81	35	22	103.4	15,000	5.8	26.9
101LX-8-06C	10	-06	9.5	3/8	1/2 NPT	81	35	22	103.4	15,000	5.8	26.9
101LX-8-08	12	-08	12.7	1/2	1/2 NPT	91	37	22	103.4	15,000	6.7	30.7
101LX-8-08C	12	-08	12.7	1/2	1/2 NPT	91	37	22	103.4	15,000	6.7	30.7
101LX-12-12	20	-12	19.0	3/4	3/4 NPT	124	57	35	69.0	10,000	12.7	38.5
101LX-16-16	25	-16	25.4	1	1 NPT	125	64	35	69.0	10,000	17.2	45.3
601LX-16-16C	25	-16	25.4	1	1 NPT	125	64	35	69.0	10,000	17.2	45.3

## 6YHLX – UNF male nozzle nipple



**MATERIAL** Special materials, C: Stainless steel

**NOTE** *ProLance fitting

#					A mm	B mm	R mm		Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch						
6YHLX-4-2AC-PL*	4	-025	4.0	5/32	1/4 - 28 UNF	58	26	8	280	40,600
6YHLX-4-2AC-PL-LH*	4	-025	4.0	5/32	1/4 - 28 UNF LH	58	26	8	280	40,600
6YHLX-4-3C-PL*	5	-03	4.8	3/16	1/4 - 28 UNF	62	29	10	280	40,600
6YHLX-4-3C-PL-LH*	5	-03	4.8	3/16	1/4 - 28 UNF LH	62	29	10	280	40,600
6YHLX-6-3C-PL*	5	-03	4.8	3/16	3/8 - 24 UNF	65	32	10	250	36,250
6YHLX-6-3C-PL-LH*	5	-03	4.8	3/16	3/8 - 24 UNF LH	65	32	10	250	36,250
6YHLX-6-4C-PL*	6	-04	6.4	1/4	3/8 - 24 UNF	66	36	11	250	36,250
6YHLX-6-4C-PL-LH*	6	-04	6.4	1/4	3/8 - 24 UNF LH	66	36	11	250	36,250
6YHLX-9-5C-PL*	8	-05	7.9	5/16	9/16 - 18 UNF	80	36	16	137.9	20,000
6YHLX-9-5C-PL-LH*	8	-05	7.9	5/16	9/16 - 18 UNF LH	80	36	16	137.9	20,000

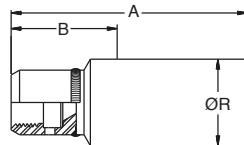
Hoses with design factor >2:1

6HYLX

## 6HYLX - UNF female for water jetting nozzle

**MATERIAL** Special materials, C: Stainless steel

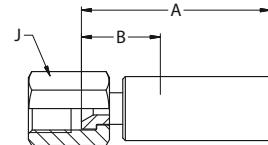
**NOTE** *ProLance fitting



#	O			~~~~~	A	B	R	Nipple ID	Ferrule OD			
	DN	size	mm	inch						mm	mm	
6HYLX-4-2AC-PL*	4	-025	4.0	5/32	1/4 - 28 UNF	51	19	9	280	40,600	1.6	11.6
6HYLX-4-2AC-PL-LH*	4	-025	4.0	5/32	1/4 - 28 UNF LH	51	19	9	280	40,600	1.6	11.6
6HYLX-6-2AC-PL-LH*	4	-025	4.0	5/32	3/8 - 24 UNF-LH	49	21	11	280	40,600	1.6	11.6
6HYLX-4-3C-PL*	5	-03	4.8	3/16	1/4 - 28 UNF	52	19	9	280	40,600	2.1	12.5
6HYLX-4-3C-PL-LH*	5	-03	4.8	3/16	1/4 - 28 UNF LH	52	19	9	280	40,600	2.1	12.5
6HYLX-6-3C-PL*	5	-03	4.8	3/16	3/8 - 24 UNF	56	23	11	250	36,250	2.1	12.5
6HYLX-6-3C-PL-LH*	5	-03	4.8	3/16	3/8 - 24 UNF LH	56	23	11	250	36,250	2.1	12.5
6HYLX-6-4C-PL*	6	-04	6.4	1/4	3/8 - 24 UNF	58	25	11	250	36,250	3.4	15.0
6HYLX-6-4C-PL-LH*	6	-04	6.4	1/4	3/8 - 24 UNF LH	58	25	11	250	36,250	3.4	15.0
6HYLX-9-5C-PL*	8	-05	7.9	5/16	9/16 - 18 UNF	72	28	17	137.9	20,000	4.3	17.4
6HYLX-9-5C-PL-LH*	8	-05	7.9	5/16	9/16 - 18 UNF	72	28	17	137.9	20,000	4.3	17.4

## 66YLX – High pressure female swivel

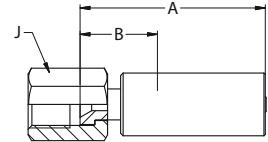
**MATERIAL** Special materials, C: Stainless steel



#	DN	size	mm	inch		A	B	J	MPa	psi	Nipple ID	Ferrule OD
						mm	mm	mm			mm	mm
66YLX-4-3	5	-03	4.8	3/16	9/16 - 18 UNF	71	33	19	180	26,100	2.1	15.0
66YLX-4-3C	5	-03	4.8	3/16	9/16 - 18 UNF	74	36	17	180	26,100	2.1	15.0

## 65YLX – Medium pressure female swivel

**MATERIAL** Special materials, C: Stainless steel

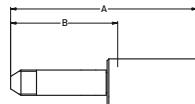


#	DN	size	mm	inch		A	B	J	MPa	psi	Nipple ID	Ferrule OD
						mm	mm	mm			mm	mm
65YLX-6-3	5	-03	4.8	3/16	9/16 - 18	78	39	19	137.9	20,000	2.1	15.0
65YLX-6-3C	5	-03	4.8	3/16	9/16 - 18	78	39	19	137.9	20,000	2.1	15.0
65YLX-6-4	6	-04	6.4	1/4	9/16 - 18	72	39	19	137.9	20,000	3.4	15.6
65YLX-6-4C	6	-04	6.4	1/4	9/16 - 18	72	39	19	137.9	20,000	3.4	15.6

Hoses with design factor >2:1

66YLX - 1Y2LX / 6Y2LX

## 1Y2LX / 6Y2LX – Medium pressure tube nipple



**MATERIAL** Special materials, C: Stainless steel

#	DN	size	mm	inch	~~~~~	A	B	~~~~~	Nipple ID	Ferrule OD	
						mm	mm	MPa	psi	mm	mm
1Y2LX-6-025	4	-025	4.0	5/32	3/8 - 24UNF-LH	112	65	137.9	20,000	1.4	14.6
1Y2LX-6-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	118	65	137.9	20,000	1.4	15.3
1Y2LX-6-04	6	-04	6.4	1/4	3/8 - 24UNF-LH	120	65	137.9	20,000	2.9	17.0
1Y2LX-3-04C	6	-04	6.4	1/4	3/8 - 24UNF-LH	109	65	137.9	20,000	2.9	17.0
1Y2LX-9-05	8	-05	7.9	5/16	9/16 - 18 UNF LH	105	60	137.9	20,000	3.7	21.0
1Y2LX-9-06C	10	-06	9.5	3/8	9/16 - 18 UNF LH	137	91	137.9	20,000	5.8	26.9
1Y2LX-9-08	12	-08	12.7	1/2	9/16 - 18 UNF LH	110	60	137.9	20,000	6.7	30.7
1Y2LX-12-08C	12	-08	12.7	1/2	3/4 - 16 UNF LH	158	104	137.9	20,000	6.7	30.7
1Y2LX-12-12C4462	20	-12	19.0	3/4	3/4 - 16 UNF LH	160	100	137.9	20,000	12.7	38.5
6Y2LX-16-12C	20	-12	19.0	3/4	1 - 14 UNS-LH	137	70	137.9	20,000	13.3	34.2

## 2448D-TOUGH COVER – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : Polyoxymethylene

**Pressure reinforcement** : Four spiral layers of maximum tensile steel wire

**Cover** : Polyamide

**Standard colour** : blue

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

#	DN	size 	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2448D-025V32-TC	4	-025	4.0	5/32	9.9	301	43,640	650	94,240	100	0.21

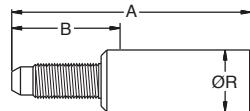
### NOTES

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Hoses with design factor >2:1

## 6YHLX - 6HYLX

### 6YHLX - UNF male nozzle nipple

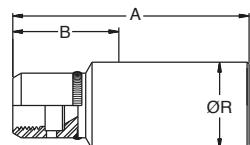


**MATERIAL** Stainless steel

**NOTE** *ProLance fitting

#	Ø	~~~~~	A	B	R	Nipple ID	Ferrule OD
	DN size mm inch		mm	mm	mm	MPa psi	mm mm
6YHLX-4-2AC-PL*	4 -025 4.0 5/32	1/4 - 28 UNF	58	26	8	280 40,600	1.6 12.8
6YHLX-4-2AC-PL-LH*	4 -025 4.0 5/32	1/4 - 28 UNF LH	58	26	8	280 40,600	1.6 12.8

### 6HYLX - UNF female for water jetting nozzle

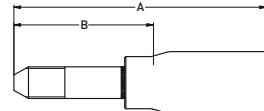


**MATERIAL** Stainless steel

**NOTE** *ProLance fitting

#	Ø	~~~~~	A	B	R	Nipple ID	Ferrule OD
	DN size mm inch		mm	mm	mm	MPa psi	mm mm
6HYLX-4-2AC-PL*	4 -025 4.0 5/32	1/4 - 28 UNF	51	19	9	280 40,600	1.6 12.8
6HYLX-4-2AC-PL-LH*	4 -025 4.0 5/32	1/4 - 28 UNF LH	51	19	9	280 40,600	1.6 12.8
6HYLX-6-2AC-PL-LH*	4 -025 4.0 5/32	3/8 - 24 UNF-LH	49	21	11	280 40,600	1.6 12.8

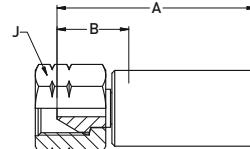
## 6Y4LX – High pressure tube nipple UNF – LH thread



**MATERIAL** Stainless steel

#	Ø		A	B	Nipple ID	Ferrule OD		
	DN	size mm inch	mm	mm	MPa	psi	mm	mm
6Y4LX-4-2AC	4	-025 4.0 5/32	1/4 - 28UNF-LH	75	44	400	58,000	1.6 14.4
6Y4LX-6-2AC	4	-025 4.0 5/32	3/8 - 24UNF-LH	86	55	400	58,000	1.6 14.4

## 6AYLX – Type "M" female swivel



**MATERIAL** Stainless steel

#	Ø		A	B	Nipple ID	Ferrule OD		
	DN	size mm inch	mm	mm	MPa	psi	mm	mm
6AYLX-6-2AC	4	-025 4.0 5/32	9/16 - 18 UNF	64	33	17	301	43,645 1.6 14.4

Hoses with design factor >2:1

2640D / 2640N

## 2640D / 2640N – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : DN 4-8: Polyoxymethylene; DN 12-25: Polyamide  
**Pressure reinforcement** : Six spiral layers of maximum tensile steel wire

**Cover** : Polyamide  
**Standard colour** : Blue

### TEMPERATURE RANGE

-10°C up to +70°C  
Version -HT: -10°C up to +100°C

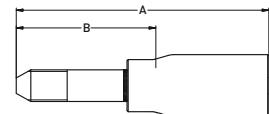
#	O				mm	MPa	psi	MPa	psi	mm	kg/m
	DN	size	mm	inch							
2640D-025V32	4	-025	3.9	5/32	12.0	280	40,600	700	101,500	140	0.29
2640D-03V32	5	-03	4.8	3/16	13.0	250	36,250	625	90,625	175	0.41
2640D-04V32	6	-04	6.4	1/4	14.6	250	36,250	625	90,625	200	0.64
2640D-05V32	8	-05	8.0	5/16	16.9	210	30,450	525	76,125	225	0.68
2640N-08V32	12	-08	12.8	1/2	24.5	180	26,100	450	65,250	290	1.36
2640N-12V32	20	-12	19.6	3/4	33.0	140	20,300	350	50,750	350	2.10
2640N-16V32	25	-16	25.0	1	40.0	120	17,400	300	43,500	400	2.90
2640N-12V62-HT	20	-12	19.8	3/4	33.0	110	15,950	275	39,875	350	2.16

### NOTES

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Hoses with design factor >2:1  
1Y42X - 1YM2X / 1YMJX

## 1Y42X – High pressure tube nipple UNF – LH thread



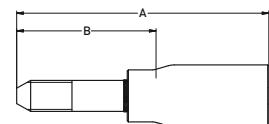
**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#							A	B			Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch	mm	mm			MPa	psi		
1Y42X-4-025	4	-025	4.0	5/32	1/4 - 28UNF-LH	88	45	400	58,000	1.9	15.6	
1Y42X-6-025	4	-025	4.0	5/32	3/8 - 24UNF-LH	98	55	400	58,000	1.9	15.6	
1Y42X-4-03	5	-03	4.8	3/16	1/4 - 28UNF-LH	116	63	400	58,000	2.3	18.6	
1Y42X-6-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	116	63	400	58,000	2.3	18.6	
1Y42X-9-03	5	-03	4.8	3/16	9/16 - 18UNF-LH	116	63	400	58,000	2.3	18.6	
1Y42X-6-04	6	-04	6.4	1/4	3/8 - 24UNF-LH	116	63	400	58,000	3.1	19.1	
1Y42X-9-04	6	-04	6.4	1/4	9/16 - 18UNF-LH	116	63	400	58,000	3.1	19.1	
1Y42X-6-05	8	-05	7.9	5/16	3/8 - 24UNF-LH	116	63	400	58,000	3.7	22.0	
1Y42X-9-05	8	-05	7.9	5/16	9/16 - 18UNF-LH	125	72	400	58,000	3.7	22.0	

Design Factor >2:1

## 1YM2X / 1YMJX – High pressure tube nipple metric – LH thread



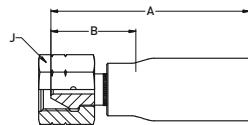
**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#							A	B			Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch	mm	mm			MPa	psi		
1YM2X-6-025	4	-025	4.0	5/32	M14x1.5-LH	108	55	400	58,000	1.9	15.6	
1YM2X-6-03	5	-03	4.8	3/16	M14x1.5-LH	116	63	400	58,000	2.3	18.6	
1YM2X-6-04	6	-04	6.4	1/4	M14x1.5-LH	116	63	400	58,000	3.1	19.1	
1YM2X-6-05	8	-05	7.9	5/16	M14x1.5-LH	125	72	400	58,000	3.7	22.0	
1YMJX-11-08W	12	-08	12.7	1/2	M18x1.5-LH	141	87	250	36,250	6.8	34.0	
1YMJX-12-08W	12	-08	12.7	1/2	M20x1.5-LH	141	87	300	43,500	6.8	34.0	

Hoses with design factor >2:1  
**1AY2X / 1AYJX - 1C92X / 1C9JX**

## **1AY2X / 1AYJX – Type “M” female swivel**



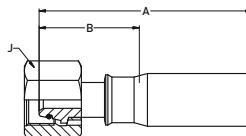
**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

Design Factor >2:1

#								A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch	mm	mm	MPa				mm	psi		
<b>1AY2X-6-025</b>	4	-025	4.0	5/32	9/16 - 18UNF	61	24	22	400	58,000	1.9	15.6		
<b>1AY2X-6-03</b>	5	-03	4.8	3/16	9/16 - 18UNF	91	38	22	400	58,000	2.3	18.6		
<b>1AY2X-8-05</b>	8	-05	7.9	5/16	3/4 - 16UNF	91	38	27	320	46,400	3.7	22.0		
<b>1AY2X-10-05</b>	8	-05	7.9	5/16	7/8 - 14UNF	91	38	30	320	46,400	3.7	22.0		
<b>1AY2X-13-05</b>	8	-05	7.9	5/16	1 1/8 - 12UNF	91	38	36	320	46,400	3.7	22.0		
<b>1AYJX-11-08W</b>	12	-08	12.7	1/2	1 - 12UNF	86	29	32	180	26,100	6.8	34.0		
<b>1AYJX-16-12W</b>	20	-12	19.0	3/4	1 5/16-12UNF	90	31	41	160	23,200	12.5	40.6		

## **1C92X / 1C9JX – Metric female swivel heavy series with O-ring**

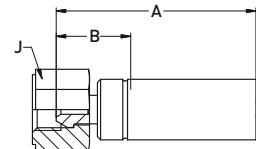


**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#								A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch	mm	mm	MPa				mm	psi		
<b>1C92X-12-05</b>	8	-05	7.9	5/16	M20x1.5	91	38	27	280	40,600	3.7	22.0		
<b>1C9JX-16-08W</b>	12	-08	12.7	1/2	M24x1.5	96	39	32	180	26,100	6.8	34.0		
<b>1C9JX-25-12W</b>	20	-12	19.0	3/4	M36x2	108	49	46	160	23,200	12.5	40.6		
<b>1C9JX-30-16W</b>	25	-16	25.4	1	M42x2	121	55	55	150	21,750	17.3	49.0		

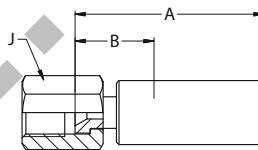
## 1922X – BSP female swivel (60° cone)



**MATERIAL** Nipple: very high strength carbon steel, zinc plated  
Shell and nut: high strength carbon steel, zinc plated

#						A	B		Nipple ID	Ferrule OD		
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1922X-4-025	4	-025	4.0	5/32	G 1/4	70	26	22	300	43500	1.9	15.6
1922X-4-03	5	-03	4.8	3/16	G 1/4	79	26	22	300	43500	2.3	18.6

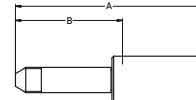
## 16Y2X – High pressure female swivel



**MATERIAL** Nipple: very high strength stainless steel  
Shell and nut: high strength carbon steel, zinc plated

#						A	B		Nipple ID	Ferrule OD		
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
16Y2X-4-025	4	-025	4	5/32	9/16 - 18UNF	76	23	19	300	43,500	1.9	15.6
16Y2X-4-03	5	-03	4.8	3/16	9/16 - 18UNF	76	23	19	300	43,500	2.3	18.6

## 6Y25X / 1Y2JX – Medium pressure tube nipple



**MATERIAL** Nipple: very high strength stainless steel  
Shell: stainless steel

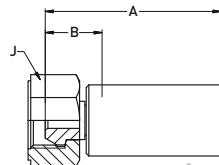
#						A	B		Nipple ID	Ferrule OD	
	DN	size	mm	inch		mm	mm	MPa	psi	mm	mm
6Y25X-9-8C	12	-08	12.7	1/2	9/16 - 18 LH	107	53	137.9	20,000	8.1	31.0
6Y25X-12-8C	12	-08	12.7	1/2	3/4 - 16 LH	107	53	137.9	20,000	8.1	31.0
1Y2JX-16-12W	20	-12	19.0	3/4	1 - 14 UNF-LH	133	70	137.9	20,000	12.5	40.6
1Y2JX-16-16W	25	-16	25.4	1	1 - 14 UNF-LH	146	70	137.9	20,000	17.3	49.0

Hoses with design factor >2:1

## 1MR2X – 1TM2X

### 1MR2X – Metric female swivel 59° cone

**MATERIAL** High strength carbon steel, zinc plated



#	O			~~~~~	A	B	J	Nipple ID	Ferrule OD	
	DN	size	mm	inch	mm	mm	mm	MPa	psi	
1MR2X-8-03	5	-03	4.8	3/16	M14x1.5	91	38	22	400 58,000	2.3 18.6
1MR2X-10-03	5	-03	4.8	3/16	M16x1.5	91	38	22	400 58,000	2.3 18.6
1MR2X-12-03	5	-03	4.8	3/16	M18x1.5	91	38	24	400 58,000	2.3 18.6

### 1TM2X – Polyflex Lok components



#	Description
1TM2X-8-05-HPK	Fitting for DN8 hoses incl. caps (refer to chapter D)
1TM2X-8-03-HPK	Fitting for DN5 hoses incl. caps (refer to chapter D)

Hoses with design factor &gt;2:1

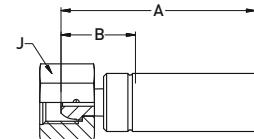
1C35X - 1C95X - 1AY5X

## 1C35X – Metric female swivel light series

**For hydraulic oil only**

**MATERIAL** Nipple: very high strength carbon steel, zinc plated

Shell and nut: high strength carbon steel, zinc plated



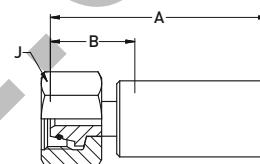
#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
					mm	mm	mm	MPa	psi	mm	mm	
1C35X-8-03	5	-03	4.8	3/16	M14x1.5	64	25	22	250	36,250	1.7	19.1

## 1C95X – Metric female swivel heavy series with O-ring

**For hydraulic oil only**

**MATERIAL** Nipple: very high strength carbon steel, zinc plated

Shell and nut: high strength carbon steel, zinc plated



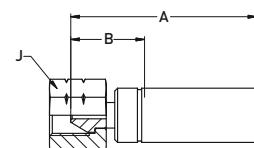
#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
					mm	mm	mm	MPa	psi	mm	mm	
1C95X-16-08	12	-08	12.7	1/2	M24x1.5	87	34	32	180	26,100	6.7	34.1
1C95X-25-12	20	-12	19.0	3/4	M36x2	92	39	46	140	20,300	12.7	41.8

## 1AY5X – Type "M" female swivel

**For hydraulic oil only**

**MATERIAL** Nipple: very high strength carbon steel, zinc plated

Shell and nut: high strength carbon steel, zinc plated



#	DN	size	mm	inch	A	B	J	Nipple ID	Ferrule OD			
					mm	mm	mm	MPa	psi	mm	mm	
1AY5X-6-03	5	-03	4.8	3/16	9/16 - 18UNF	66	26	22	250	36,250	1.7	19.1
1AY5X-11-08	12	-08	12.7	1/2	1 - 12 UNF	80	27	32	180	26,100	6.7	34.1
1AY5X-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	82	29	41	140	20,300	12.7	41.8

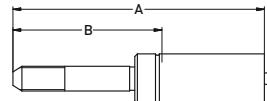
Hoses with design factor >2:1

1YA5X – 1925X

## 1YA5X – High pressure tube nipple UNF – LH thread

**For hydraulic oil only**

**MATERIAL** Special materials



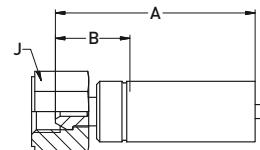
#	O				~~~~~	A	B	O	Nipple ID	Ferrule OD	
	DN	size	mm	inch		mm	mm	MPa	psi	mm	mm
1YA5X-1-03	5	-03	4.8	3/16	1/4 - 28UNF-LH	92	53	250	36,250	1.3	19.1
1YA5X-3-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	97	58	250	36,250	1.3	19.1

## 1925X – BSP female swivel (60° cone)

**For hydraulic oil only**

**MATERIAL** Nipple: very high strength carbon steel, zinc plated

Shell and nut: high strength carbon steel, zinc plated



#	O				~~~~~	A	B	J	Nipple ID	Ferrule OD		
	DN	size	mm	inch		mm	mm	mm	MPa	psi	mm	mm
1925X-4-03	5	-03	4.8	3/16	G 1/4	78	32	22	250	36,250	1.7	19.1

## 2648N – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : Polyamide

**Pressure reinforcement** : Six spiral layers of maximum tensile steel wire

**Cover** : Polyamide

**Standard colour** : Blue

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

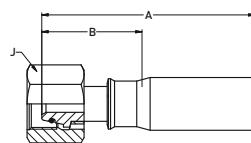
#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2648N-12V32	20	-12	19.8	3/4	33.7	160	23,200	400	58,000	300	2.28
2648N-16V32	25	-16	25.0	1	40.8	150	21,750	375	54,375	400	3.10

### NOTES

-

Hoses with design factor >2:1  
1C9JX / 1C9CX – 1AYJX / 1AYCX – 1Y2CX

## 1C9JX / 1C9CX – Metric female swivel heavy series with O-ring

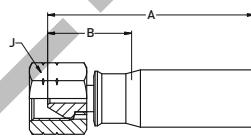


**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#					A	B		Nipple ID	Ferrule OD			
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm	
1C9JX-25-12W	20	-12	19.0	3/4	M36x2	108	50	46	160	23,200	12.5	40.6
1C9CX-30-16W	25	-16	25.4	1	M42x2	121	55	55	150	21,750	17.3	49.0

## 1AYJX / 1AYCX – Type "M" female swivel

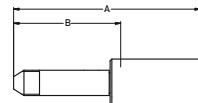


**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#					A	B		Nipple ID	Ferrule OD			
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm	
1AYJX-16-12W	20	-12	19.0	3/4	1 5/16-12UNF	90	31	41	160	23,200	12.5	40.6
1AYCX-16-16	25	-16	25.4	1	1 5/16-12UNF	146	72	41	138	20,000	17.3	49.0

## 1Y2CX – Medium pressure tube nipple



**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#					A	B		Nipple ID	Ferrule OD		
	DN	size	mm	inch	mm	mm	mm	MPa	psi	mm	mm
1Y2CX-16-16	25	-16	25.4	1	1-14UNF-LH	146	72	138	20,000	17.3	49

## 2740D – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : Polyoxymethylene

**Pressure reinforcement** : Six spiral layers of maximum tensile steel wire

**Cover** : DN4: Polyurethane, DN5-12: Polyamide

**Standard colour** : DN4: yellow, DN5-8: red, DN12: black

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2740D-025V16	4	-025	3.9	5/32	12.0	300	43,500	780	113,100	120	0.40
2740D-03V34	5	-03	4.8	3/16	13.2	280	40,600	700	101,500	200	0.47
2740D-05V34	8	-05	7.8	5/16	17.2	250	36,250	625	90,625	200	0.83
2740D-08V30	12	-08	12.7	1/2	27.0	200	29,000	500	72,500	300	1.85

### NOTES

-

Hoses with design factor >2:1

2741D

## 2741D – Ultra-high pressure hose with 2nd cover



### CONSTRUCTION

Core tube : Polyoxymethylene

Pressure reinforcement : Six spiral layers of maximum tensile steel wire

Cover : 1st: Polyamide; 2nd: Polyurethane, abrasion resistant

Standard colour : 1st: Red; 2nd: Black

### TEMPERATURE RANGE

-10°C up to +70°C

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2741D-05V34/10	8	-05	7.7	5/16	21.2	250	36,250	625	90,625	200	0.95

### NOTES

-

## 2748D – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : Polyoxymethylene

**Pressure reinforcement** : Six spiral layers of maximum tensile steel wire

**Cover** : Polyamide

**Standard colour** : DN8: red, DN12: black

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2748D-05V34	8	-05	7.8	5/16	17.3	280	40,600	700	101,500	230	0.83
2748D-08V30	12	-08	13.0	1/2	27.1	250	36,250	625	90,625	300	1.85

### NOTES

-

Hoses with design factor >2:1

2748D

## 2748D – Ultra-high pressure hose with 2nd cover



### CONSTRUCTION

Core tube : Polyoxymethylene

Pressure reinforcement : Six spiral layers of maximum tensile steel wire

Cover : 1st: Polyamide; 2nd: Polyurethane, abrasion resistant

Standard colour : 1st: Red; 2nd: Yellow

### TEMPERATURE RANGE

-10°C up to +70°C

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2748D-05V34/16	8	-05	7.8	5/16	21.8	280	40,600	700	101,500	230	0.99

### NOTES

-

## 2749D – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : Polyoxymethylene

**Pressure reinforcement** : Six spiral layers of maximum tensile steel wire

**Cover** : Polyamide

**Standard colour** : Red

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

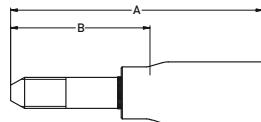
#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2749D-03V34	5	-03	4.8	3/16	13.3	301	43,645	700	101,500	200	0.47
2749D-05V34	8	-05	7.8	5/16	17.3	301	43,645	700	101,500	230	0.83

### NOTES

-

Hoses with design factor >2:1  
**1YM2X / 6YMHX - 1Y42X / 6Y4HX**

## **1YM2X / 6YMHX – High pressure tube nipple metric – LH thread**

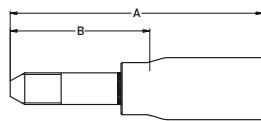


**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#	DN	size	mm	inch		A	B	Nipple ID	Ferrule OD		
<b>1YM2X-6-025</b>	4	-025	4.0	5/32	M14x1.5-LH	108	55	400	58,000	1.9	15.6
<b>1YM2X-6-03</b>	5	-03	4.8	3/16	M14x1.5-LH	116	63	400	58,000	2.3	18.6
<b>1YM2X-6-05</b>	8	-05	7.9	5/16	M14x1.5-LH	125	72	400	58,000	3.7	22.8
<b>6YMHX-11-8C</b>	12	-08	12.7	1/2	M18x1.5-LH	138	80	250	36,250	7.5	31.9
<b>6YMHX-12-8C</b>	12	-08	12.7	1/2	M20x1.5-LH	138	80	300	43,500	7.5	31.9

## **1Y42X / 6Y4HX – High pressure tube nipple UNF – LH thread**

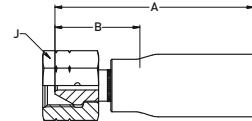


**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#	DN	size	mm	inch		A	B	Nipple ID	Ferrule OD		
<b>1Y42X-4-025</b>	4	-025	4.0	5/32	1/4 - 28UNF-LH	88	45	400	58,000	1.9	15.6
<b>1Y42X-6-025</b>	4	-025	4.0	5/32	3/8 - 24UNF-LH	98	55	400	58,000	1.9	15.6
<b>1Y42X-4-03</b>	5	-03	4.8	3/16	1/4 - 28UNF-LH	116	63	400	58,000	2.3	18.6
<b>1Y42X-6-03</b>	5	-03	4.8	3/16	3/8 - 24UNF-LH	116	63	400	58,000	2.3	18.6
<b>1Y42X-9-03</b>	5	-03	4.8	3/16	9/16 - 18UNF-LH	116	63	400	58,000	2.3	18.6
<b>1Y42X-6-05</b>	8	-05	7.9	5/16	3/8 - 24UNF-LH	116	63	400	58,000	3.7	22.8
<b>1Y42X-9-05</b>	8	-05	7.9	5/16	9/16 - 18UNF-LH	125	72	400	58,000	3.7	22.8
<b>6Y4HX-16-8C</b>	12	-08	12.7	1/2	1 - 14UNS-LH	138	80	300	43500	7.5	31.9

## 1AY2X – Type “M” female swivel



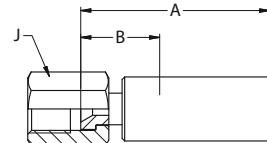
**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#					A mm	B mm			Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch						
1AY2X-6-025	4	-025	4.0	5/32	9/16 - 18UNF	61	24	22	400	58,000
1AY2X-6-03	5	-03	4.8	3/16	9/16 - 18UNF	91	38	22	400	58,000
1AY2X-8-05	8	-05	7.9	5/16	3/4 - 16UNF	91	38	27	320	46,400
1AY2X-10-05	8	-05	7.9	5/16	7/8 - 14UNF	91	38	30	320	46,400
1AY2X-13-05	8	-05	7.9	5/16	1 1/8 - 12UNF	91	38	36	320	46,400

Design Factor >2:1

## 16Y2X – High pressure female swivel



**MATERIAL** Nipple: very high strength stainless steel

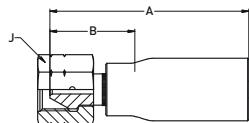
Shell and nut: high strength carbon steel, zinc plated

#					A mm	B mm			Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch						
16Y2X-4-025	4	-25	4	5/32	9/16 - 18	76	23	19	300	43,500
16Y2X-4-03	5	-03	4.8	3/16	9/16 - 18	76	23	19	300	43,500

Hoses with design factor >2:1

1922X - 16Y2X

## 1922X - BSP female swivel (60° cone)

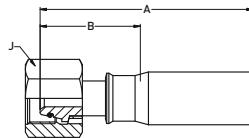


**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#								A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch				mm	mm	mm	MPa	psi	mm	mm
1922X-4-025	4	-025	4.0	5/32		G 1/4		70	26	22	300	43,500	1.9	15.6
1922X-4-03	5	-03	4.8	3/16		G 1/4		79	26	22	300	43,500	2.3	18.6

## 1C92X – Metric female swivel heavy series with O-ring



**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#								A	B				Nipple ID	Ferrule OD
	DN	size	mm	inch				mm	mm	mm	MPa	psi	mm	mm
1C92X-12-05	8	-05	7.9	5/16		M20x1.5		91	38	27	280	40,600	3.7	22.0
6C9HX-16-8C	12	-08	12.7	1/2		M24 x 1.5		103	45	32	250	36,250	7.5	31.9

## 1TM2X – Polyflex Lok components



#	Description
1TM2X-8-05-HPK	Fitting for DN8 hoses incl. caps (refer to chapter D)
1TM2X-8-03-HPK	Fitting for DN5 hoses incl. caps (refer to chapter D)

Design Factor &gt;2:1

Hoses with design factor >2:1

2840D

## 2840D – Ultra-high pressure hose



### CONSTRUCTION

Core tube : Polyoxymethylene

Pressure reinforcement : Eight spiral layers of maximum tensile steel wire

Cover : Polyamide

Standard colour : DN5: red, DN8: yellow, DN12: black

### TEMPERATURE RANGE

-10°C up to +70°C

#	O				mm	MPa	psi	MPa	psi	mm	kg/m
	DN	size	mm	inch							
2840D-03V34	5	-03	4.6	3/16	15.0	400	58,000	800	116,000	200	0.66
2840D-05V36	8	-05	7.8	5/16	19.5	300	43,500	700	101,500	250	1.10
2840D-08V30	12	-08	12.7	1/2	29.8	250	36,250	625	90,625	350	2.50

### NOTES

The design factor of burst pressure over working pressure can be adjusted to the specific application but must not be reduced below a ratio of 1:2.

## 2841D – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : Polyoxymethylene

**Pressure reinforcement** : Eight spiral layers of maximum tensile steel wire

**Cover** : 1st: Polyamide; 2nd: Polyurethane, abrasion resistant

**Standard colour** : 1st: Yellow; 2nd: Grey

### TEMPERATURE RANGE

-10°C up to +70°C

Design Factor >2:1

#	DN	size	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2841D-05V36/17	8	-05	7.7	5/16	23.5	300	43,500	700	101,500	250	1.38

### NOTES

-

Hoses with design factor >2:1

2848D

## 2848D – Ultra-high pressure hose



### CONSTRUCTION

Core tube : Polyoxymethylene

Pressure reinforcement : Eight spiral layers of maximum tensile steel wire

Cover : Polyamide

Standard colour : DN8: Red; DN12: Black

### TEMPERATURE RANGE

-10°C up to +70°C

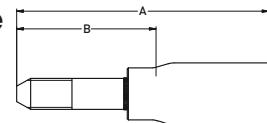
#	Ø	mm	inch	Ø	mm	MPa	psi	MPa	psi	mm	kg/m
2848D-05V34	8	-05	7.8	5/16	19.6	320	46,400	800	116,000	280	1.10
2848D-08V30	12	-08	13.0	1/2	29.9	300	43,500	625	90,625	350	2.5

### NOTES

-

Hoses with design factor >2:1  
1YM2X / 6YMWX – 1Y42X / 6Y4WX

## 1YM2X / 6YMWX – High pressure tube nipple metric – LH thread

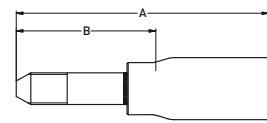


**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#							A mm	B mm			Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch	mm	MPa	psi					
1YM2X-6-03	5	-03	4.8	3/16	M14x1.5-LH	116	63	400	58,000	2.3	19.6	
1YM2X-6-05	8	-05	7.9	5/16	M14x1.5-LH	125	72	400	58,000	3.7	24.0	
6YMWX-11-8C	12	-08	12.8	1/2	M18x1.5-LH	138	80	250	36250	7.5	33.8	
6YMWX-12-8C	12	-08	12.8	1/2	M20x1.5-LH	138	80	300	43500	7.5	33.8	

## 1Y42X / 6Y4WX – High pressure tube nipple metric – UNF thread



**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

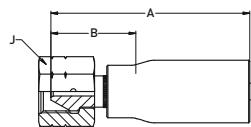
#							A mm	B mm			Nipple ID mm	Ferrule OD mm
	DN	size	mm	inch	mm	MPa	psi					
1Y42X-6-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	116	63	400	58,000	2.3	19.6	
1Y42X-9-03	5	-03	4.8	3/16	9/16 - 18UNF-LH	116	63	400	58,000	2.3	19.6	
1Y42X-6-05	8	-05	7.9	5/16	3/8 - 24UNF-LH	116	63	400	58,000	3.7	24.0	
1Y42X-9-05	8	-05	7.9	5/16	9/16 - 18UNF-LH	125	72	400	58,000	3.7	24.0	
6Y4WX-16-8C	12	-08	12.7	1/2	1 - 14UNF-LH	138	80	300	43,500	7.6	34.2	

Design Factor >2:1

Hoses with design factor >2:1

## 1AY2X – 1TM2X

### 1AY2X – Type "M" female swivel



#### MATERIAL

Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#	DN	size	mm	inch	~~~~~	A	B	J	Nipple ID	Ferrule OD
						mm	mm	mm		
1AY2X-6-03	5	-03	4.8	3/16	9/16 - 18UNF	91	38	22	400	58,000
1AY2X-8-05	8	-05	7.9	5/16	3/4 - 16UNF	91	38	27	320	46,400
1AY2X-10-05	8	-05	7.9	5/16	7/8 - 14UNF	91	38	30	320	46,400
1AY2X-13-05	8	-05	7.9	5/16	1 1/8 - 12UNF	91	38	36	320	46,400

### 1TM2X – Polyflex Lok components



#	Description
1TM2X-8-05-HPK	Fitting for DN8 hoses incl. caps (refer to chapter D)
1TM2X-8-03-HPK	Fitting for DN5 hoses incl. caps (refer to chapter D)

## 2849D – Ultra-high pressure hose



### CONSTRUCTION

**Core tube** : Polyoxymethylene

**Pressure reinforcement** : Eight spiral layers of maximum tensile steel wire

**Cover** : Polyamide

**Standard colour** : Red

### TEMPERATURE RANGE

-10°C up to +70°C

#	DN	size mm	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m
2849D-05V34	8	-05	7.8	5/16	19.6	380	55,000	800	116,000	280	1.10

Design Factor >2:1

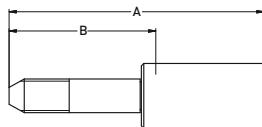
### NOTES

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Hoses with design factor >2:1

6YMWX - 6Y4WX

## 6YMWX - High pressure tube nipple metric – LH thread

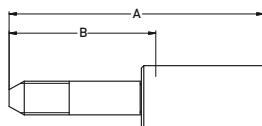


**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#	DN	size	mm	inch		A	B	Nipple ID	Ferrule OD		
6YMWX-6-5C-55	8	-05	7.9	5/16	M14x1.5-LH	120	65	400	58,000	3.6	24.0

## 6Y4WX - High pressure tube nipple UNF – LH thread

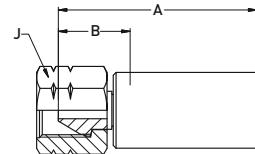


**MATERIAL** Nipple: very high strength stainless steel

Shell: high strength carbon steel, zinc plated

#	DN	size	mm	inch		A	B	Nipple ID	Ferrule OD		
6Y4WX-9-5C-55	8	-05	7.9	5/16	9/16 - 18 UNF-LH	120	65	400	58,000	3.6	24.0

## 6AYWX – Type "M" female swivel



**MATERIAL** Nipple: very high strength stainless steel

Shell and nut: high strength carbon steel, zinc plated

#	DN	size	mm	inch	A	B	J	MPa	psi	Nipple ID	Ferrule OD	
					mm	mm	mm			mm	mm	
6AYWX-10-5C-55	8	-05	7.9	5/16	7/8 - 14UNF	113	45	32	380	55,000	3.6	24.0

Design Factor >2:1

Hoses with design factor >2:1

Notes

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Design Factor >2:1

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