

Weatherhead 4S/6S Spiral Hose Fittings

4S/6S

Eaton's high performance
spiral hose fitting design

DURA-SEAL™ technology

Class "0" Cool-Down
leakage

DURA-KOTE™ technology

Superior corrosion
resistance

WeatherMatch™ spiral

Hose/fitting identification
program



Powering Business Worldwide

Eaton's 4S/6S spiral advantage

Higher operating performance • Superior corrosion resistance • Hose/fitting identification program

Eaton designs its hose and hose fittings so that when assembled together our customers have an engineered hose assembly system that will exceed the customer's hydraulic system requirements providing longer hose assembly life which results in less equipment down-time. Eaton's engineered hose assembly system approach is what differentiates Eaton from other suppliers in the marketplace, especially those suppliers that only

design and manufacture hose or those suppliers that only design and manufacture hose fittings, resulting in an assembly of mixed supplier components. The key to higher performance hydraulic hose assemblies is based on designing, manufacturing, assembling, and testing the components as a system. The new 4S/6S spiral hose fitting offering is a key component of the Eaton engineered hose assembly system.



Eaton's 4S/6S spiral advantage

Will reduce complexity in hose fitting selection in assembling with the correct Eaton hose, plus a reduction in customer inventory costs.

Eaton's technological advancements in spiral hose & hose fitting designs

Introducing Eaton's next generation spiral hose fitting design. This new series of spiral hose fittings incorporates major advancements in fitting design that provides a higher performing spiral hose assembly for the most demanding applications while using a simple more user friendly three step hose and hose fitting assembly process. The 4S/6S hose assemblies meet / exceed all standard global industry specifications. The "4S/6S" fitting series refers to the 4-spiral and 6-spiral wire reinforcement of the hose approved with the respective "4S" and "6S" series fittings.



1. DURA-SEAL™ technology

This patent-pending innovation from Eaton eliminates hose assembly cool-down leakage, while extending hose assembly life, reducing equipment down-time.

2. DURA-KOTE™ plating technology

Hose fittings that will now offer 3x's the corrosion protection on carbon steel fittings as compared to competitive hose fittings. Eaton's DURA-KOTE fittings provide up to 1000 hours of corrosion protection. This is a huge step forward in metal fitting corrosion protection.

3. WeatherMATCH spiral - hose/fitting identification system

User friendly system that helps the assembler of spiral hose and hose fittings quickly and easily identify the correct hose and hose fitting to be crimped together providing a more reliable / safe product. This also reduces scrap costs from assembling the wrong hose and hose fitting.

Class "0" Cool-Down leakage

Superior corrosion resistance

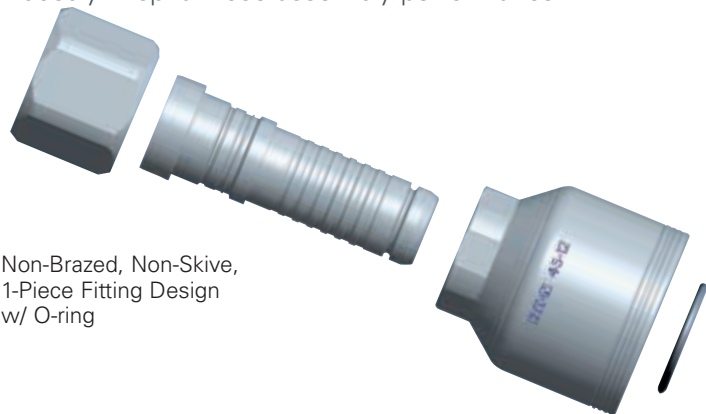
User-friendly hose/fitting identification system



DURA-SEAL™ technology

**DURA-SEAL™ technology = Class "0" Cool-down leakage
+ higher operating performance**

Eaton's 4S/6S spiral hose fittings feature a unique patent-pending O-ring seal on the nipple that ensures class 0 cool-down leakage and longer hose assembly life in the most demanding applications. Tests have shown that this revolutionary technology meets SAEJ1176 Class 0 cool-down leakage in high impulse pressure tests with no moisture formulating at the end of the hose socket during system shutdown and start-up. Class 0 is the highest classification rating for leak-free performance of hose and fittings. Eaton previously developed this technology for use on the Eaton "1W" internal skive fittings which resulted in outstanding higher hose assembly operating performance. With this Eaton technology offered in both the ultimate performance internal skive fitting design and now offered in a one-piece non-skive fitting design, Eaton is leading the industry in spiral hose assembly performance.



Non-Brazed, Non-Skive,
1-Piece Fitting Design
w/ O-ring



Cool-Down leakage classification – SAEJ1176

O-ring nipple design provides class-0 cool down leakage in accordance with SAE J1176 leak free classifications

Class 0	No indication of moisture
Class 1	Nonrecurring fluid
Class 2	Recurring fluid that does not result in the formation of a droplet
Class 3	Recurring fluid that results in the formation of a non-falling droplet
Class 4	Recurring fluid where a droplet forms and falls
Class 5	Recurring fluid where the frequency of droplets makes a measurable stream

Features and benefits



One Piece Non-Skive Fitting	Reduces errors of matching correct socket with nipple
Non-Brazed (one-piece machined) nipples	Eliminates possibility of braze joint failures in the field
"Captive" terminal end nuts	Reduces chance of damage from over-torquing during hose assembly installation
Smaller profile fitting design	Easier to install hose assembly in tight spaces
WeatherMATCH Spiral System	Hose and fittings are marked to prevent chance of errors when selecting the correct hose and fitting to be crimped together
Standardization	Meets / exceeds global industry specifications
DURA-KOTE Plating	Eaton's next generation plating provides up to 1000 hours of corrosion resistance, far exceeding SAE J514 specifications

DURA-KOTE™ plating technology

DURA-KOTE™ plating = Superior corrosion resistance

Corrosion resistance is a necessity on nearly every application of hydraulic fluid conveyance products. Unplated carbon steel fluid conveyance products can begin rusting within hours of exposure to the elements. Now Eaton, a world leader in power management and hydraulic systems, has raised the bar on corrosion resistance. Introducing DURA-KOTE plating technology, delivering significantly higher level of corrosion resistance on carbon steel fluid conveyance products.

DURA-KOTE plating technology now comes standard on most carbon steel fluid conveyance products, so you get products that look better, last longer, cost less to maintain.

- Testing in accordance to ASTM B117 salt spray requirements, Eaton fluid conveyance components with DURA-KOTE plating technology were rated up to 1,000 hours of corrosion resistance, far exceeding SAEJ514 requirements.
- Up to three times more protection compared to earlier generations of plating—without changing the look, feel or performance of Eaton's carbon steel fluid conveyance products.
- Commonly used in oil and gas, construction, agriculture, mining, manufacturing, and transportation.

No compatibility issues when using existing carbon steel parts with former plating and parts with the improved DURA-KOTE plating. The Eaton carbon steel fluid conveyance products you rely on today will look, feel and perform exactly the same as previous products.

- Same form and functional capabilities
- Standard SAE torque values and pressure ratings
- Same silver appearance
- Same procedures for assembly

Corrosion protection

3x's better corrosion protection (up to 1000 hours), higher impulse cycle performance, one-piece non-brazed nipples



Corrosion resistance

Corrosion of current carbon steel adapters after 650 hours of exposure to salt spray testing.



Eaton



Competitor X



Competitor Y

Learn more about how Eaton's new standard in corrosion resistance can help make your fluid conveyance components look better, last longer and operate more efficiently. Contact your sales representative about DURA-KOTE plating technology or visit www.eaton.com/Dura-Kote

As you can see in the photos above, carbon steel fluid conveyance products protected with Eaton's DURA-KOTE plating technology resist rust longer than other carbon steel products available today.

WeatherMATCH spiral hose/ fitting identification system

WeatherMATCH Spiral = User friendly hose/fitting identification program

Expanding upon our World Class WeatherMATCH program for Eaton braided and 100R12 hoses, we are now offering a new easy matching identification program for our entire spiral hose product offering. In addition,

the 4S/6S hose fittings are part of our Eaton Engineered Hose Assembly System which ensures that matched components are used in a crimped hose assembly that meets/exceeds the industry specifications.

4S/6S Hose and fitting identification/matching system

Eaton Fitting part number provides user with an easy method to match the correct hose and hose fitting for assembly.

Example using fitting part number 4S16FL16

- Hose Fitting Series (4S or 6S) _____
- End Connection Size (-16) _____
- End Connection Code ("FL" is a code 61 flange) _____
- Hose Dash Size (-16) _____

- 4 rings on socket refers to 4-spiral hose (4S)
- 6 rings on socket refers to 6-spiral hose (6S)



"4S-16" marking on socket identifies: Hose type: 4-Spiral (**4S**) Hose Dash size: **-16**

Simplicity. That's the core of Eaton's 4S/6S program. With the WeatherMATCH Spiral matching and mating system, Eaton has made it much easier to select the correct spiral fitting to be assembled on Eaton's spiral hoses.

Eaton laylines are identified with "4S" or "6S" on hoses approved with 4S or 6S fittings. Eaton fittings are identified with 4 or 6 rings AND "4S" or "6S" with hose dash size on the socket.

- All "4S" fittings are marked so they are easily matched to identification marking on the correct 4-spiral hoses
- All "6S" fittings are marked so they are easily matched to identification marking on the correct 6-spiral hoses

It's that simple.

Simplifying the selection of the correct hose and hose fitting to be crimped together eliminates confusion for the assembler. This leads

to increased productivity, and offers greater safety for end users once assembly is installed in the hydraulic system.

Eaton 4-Spiral hoses qualified with 4S fitting

For use with hose:

H430, H430R, H464, H471, EC525, EC600, EC810

Reference the current Eaton Weatherhead Master Catalog for more information on spiral hoses.



Eaton 6-Spiral hoses qualified with 6S fitting

For use with hose:
H471, EC600, EC810

Safety & assembly

Eaton's hydraulic hose and fitting assembly product warning

Flexible hose lines offer many advantages over rigid tubing including routing ease, vibration absorption, sound deafening and the ability to accommodate movement of connected components. However, hose lines require caution in use not only to provide long service, but also to guard against potentially dangerous failure.

Important

The user should carefully observe the precautions listed in this catalog, including the recommendations on the selection of hose & fittings on the relevant pages. In addition, care should be taken not to exceed the minimum bend radius listed for each hose size, and type in the hose section. Maximum operating pressure should not exceed pressures listed in the hose data. Instructions for assembling fittings to different hose should be followed carefully to ensure the performance of the completed assembly.

Warning

Application considerations must be observed in selecting appropriate components for the application of these products contained herein. The failure to follow the recommendations set forth in this catalog may result in an unstable application which may result in serious personal injury, property damage and/or death.

Warning

Eaton or any of its affiliates or subsidiaries shall not be subject to and disclaims any obligations or liabilities (including but not limited to all consequential, incidental and contingent damages) arising from tort claims (including without limitation negligence and strict liability) or other theories of law with respect to any hose assemblies not produced from genuine Eaton hose fittings, hose and Eaton approved equipment, and in conformance with Eaton's process and product instructions for each specific hose assembly.

Failure to follow these processes and product instructions and limitations could lead to premature hose assembly failures resulting in property damage, serious injury and/or death.

Assembly instructions

Cut hose

1. Calculate cut length of hose by subtracting the "D" dimension from both ends (see fitting information for "D" dimensions).
2. Cut hose to proper length.
3. Angle on cut ends must not exceed 5°.
4. Do not kink or bend hose beyond minimum bend radius during handling.
5. Take care not to damage hose cover during handling.

Clean hose

1. At a minimum the hose assembly should be blown out with clean compressed air. Eaton recommends using the Eaton Projectile Cleaning System.
2. Assemblies may be rinsed out with hot water at 65°C (150°F) max, or use Eaton's Projectile Cleaning System shown in the current Eaton Weatherhead Master Catalog.

Assemble fittings

1. Inspect fitting for the presence of an O-ring. O-ring must be installed on nipple.
2. Mark both ends of hose with fitting insertion depth noted in the "Fitting for crimp die placement" – L-Dimension in the back of this catalog.
3. Place sufficient lube in ID of hose for easier insertion. Check compatibility.
4. Do not place lube directly on nipple O-ring unless assembling immediately thereafter.
5. Insert fitting fully into hose until socket is aligned with insertion depth marked on hose.
6. Check fitting orientation, if required.

Crimp fittings to hose

1. Use only approved Eaton assembly equipment.
2. Follow standard crimping procedures available in PowerSource or contact Eaton Technical Support for additional details.

How to order

Accurate processing and prompt delivery of your order depends on easy identification of your requirements. Please order Eaton brand parts using correct part numbers as described in this catalog. Inquiries and orders should be directed to your Eaton Fluid Conveyance Distributor or:

Eaton
14615 Lone Oak Rd.
Eden Prairie, MN 55344
1-952-937-9800
1-888-258-0222
Fax: 952-974-7722
www.eaton.com/hydraulics

Part numbers and dash sizes

Dash size designates the nominal size of 16ths of an inch or tube O.D. in mm. This number immediately follows the part number and is separated from it with a dash.

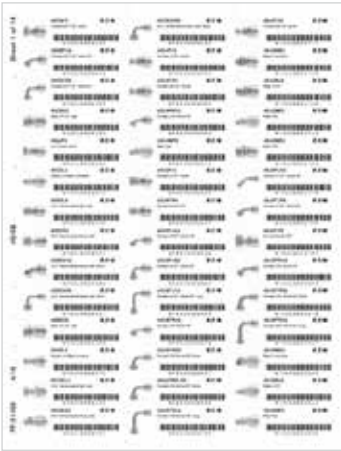
Dimensions

Dimensions given in this catalog for Eaton products are approximate and should be used for reference only. Exact dimensional information for a given product is subject to change and varying tolerances; contact Eaton directly for full current information.

Globally standardized pressure ratings

Eaton has standardized hose burst and operating pressure ratings in cataloging, worldwide. This move toward standardization will slightly alter some of the pressure ratings listed for hoses in this catalog as pressures are rounded off. This is a paper conversion only. This action has no effect on the actual testing and certification of Eaton hoses to stringent product standards.

Label Set - FF91420



Warning

Hose assemblies

Eaton manufactures the terminal ends of our hose fittings to the appropriate requirements established by the SAE. Therefore, the performance ratings of these hose fittings meet or exceed the SAE requirements. It is possible to order a hose assembly with a fitting terminal end that has a performance rating lower than the hose rating. When ordering hose assemblies, please keep the connecting end performance rating in mind since this may affect overall hose assembly performance. Hose assembly components (hose and fittings) are easily assembled in the field. However, factory assembled reusable and crimped hose assemblies are available. For complete information, contact Eaton.

Socket data

Markings on crimp fittings

Use of correct Eaton fitting with a given Eaton hose is essential for proper assembly and performance. All Eaton 4S/6S fittings are marked with the product group, 4S or 6S, and the dash size.

Global identification marking

Global non-skive fitting sockets for four-spiral and six-spiral hose in all sizes have four or six rings plus a scribe mark and either 4S-size or 6S-size etched on the socket. Global hose fittings are identified with an Eaton trademark and the hose dash size. In addition, global sockets are identified with the following:

Identification marking	Fitting style	Hose/Socket description
4 rings 1 scribe mark and 4S socket 4S-(size)	Spiral non-skive	Four spiral wire hose
6 rings 1 scribe mark and 6S socket 6S-(size)	Spiral non-skive	Six spiral wire hose

4S Fitting



4S Socket



6S Fitting



6S Socket



Weatherhead catalog hose fitting size reference

Example	Example
SAE JIC/37° Female Swivel – Straight for “4S” series	SAE Code 61 Flange – Straight for “6S” series
• Eaton global fitting part # 4SA12FJ16 (must order part using this part #)	• Eaton global fitting part # 6S32FL24 (must order part using this part #)
• Weatherhead size reference # 16-612 (for reference only – cannot order part using this number) • Hose size: -16 • Fitting terminal end size & type: -612	• Weatherhead size reference # 24-G32 (for reference only – cannot order part using this number) • Hose size: -24 • Fitting terminal end size & type: -G32
View of fitting section in catalog:	View of fitting section in catalog:
4SA12FJ16 (16-612)	6S32FL24 (24-G32)

Eaton's hose fitting part numbering system – 4S/6S

Global crimp nipples/fittings

Complete nipple part number: **4S A 12 FJ A 16** _____

Product Group _____

4S = Spiral non-skive fitting part number for four-spiral hose

6S = Spiral non-skive fitting part number for six-spiral hose

Material stock code _____

A = inch hex stock or metric equivalent

Terminal end connection size* _____

Terminal end connection code _____

BF = BSP Female Swivel (1 Hex)

BP = BSP Male Parallel

BT = BSP Male Tapered

CT = CAT Flange

DK = 24° Male (light duty)

DL = DKO Female Swivel (light duty)

DS = DKO Female Swivel (heavy duty)

EK = 24° Male (heavy duty)

FH = SAE Code 62 Flange

FJ = SAE JIC 37° Female Swivel

FL = SAE Code 61 Flange

FR = ORS Female Swivel

FS = SAE 45° Flare Female Swivel

JF = JIS Female Swivel

JM = BSP Female Swivel (2 Hexes)

KF = Komatsu Female Swivel

KS = Komatsu Split Flange

MB = Male O-Ring Boss (ORB)

MF = Male Inverted Flare

MJ = SAE JIC 37° Male Rigid

MP = Male Pipe Rigid

MR = ORS Male

PF = Female Pipe Swivel

PS = Male Pipe Swivel

Terminal end connecting configuration _____

If nipple has a straight configuration, then this position collapses

A = 45° D = 22 1/2° H = 110°

B = 90°, standard E = 67 1/2°

 or short drop F = 30°

C = 90° long drop G = 60°

Hose size* _____

Material designation _____

C = stainless steel, if fitting is zinc plated carbon steel (standard), this position collapses.

* When ordering sizes 3, 4, 5, 6 and 8 the part number requires only single digits

Hose fitting pressure chart for 4S/6S fittings only

Thread style pressure performance

Eaton closely follows industry standards in design and in application recommendations. A key principle within ISO, SAE and other standards bodies is that the **MAXIMUM WORKING PRESSURE OF THE HOSE OR ADAPTER ASSEMBLY IS THE**

LESSER OF THE HOSE AND END CONNECTOR(S) USED.

The first table below provides excerpts from standard Industry pressure rating charts for connector types as Published by SAE (Society of Automotive Engineers.)

Note: The tables below are applicable for low carbon free machining steels typically used in Fluid Power connections. For port type connections, the material and design of the port must be considered and may reduce expected strength. For high pressure applications Eaton recommends the use of more robust connector designs such as Code 62 flange or O-Ring face seal (ORS).

Selected SAE pressure ratings

Dash size	Inch size	37° JIC SAE J514	Pipe SAE J476	Male ORB SAE J1926 ORS adapt.	Male ORB SAE J1926 non-ORS adapt.	Adjustable ORB SAE J1926 ORS adapt.	Adjustable ORB SAE J1926 non-ORS adapt.	ORS SAEJ1453	Male flareless SAE J514	Code 61 SAE J518	Code 62 SAE J518
-6	3/8	4000	4000	9000	5000	6000	4000	9000	4000	-	-
-8	1/2	4000	3000	9000	4500	6000	4000	9000	4000	5000	6000
-10	5/8	3000	-	9000	3500	6000	3000	6000	3000	-	-
-12	3/4	3000	2500	6000	3500	6000	3000	6000	3000	5000	6000
-14	7/8	2500	-	6000	3000	6000	2500	6000	2500	-	-
-16	1	2500	2000	6000	3000	5000	2500	6000	2500	5000	6000
-20	1 1/4	2000	1150	4000	2500	4000	2000	3600	2000	4000	6000
-24	1 1/2	1500	1000	4000	2500	3000	2000	3600	1500	3000	6000
-32	2	1125	1000	3000	2000	2500	1500	3000	1125	3000	6000

International pressure rating charts

Maximum working pressure (PSI)

Hose fitting connection	Hose fitting size									
	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
Male British Pipe (BSP)	5000	-	4000	4000	3500	4000	3500	2500	2,000	2000
Female British Pipe (BSP)	5000	-	4000	4000	3500	4000	3500	2500	2,000	2000
Female Pipe (JIS)	5000	-	5000	5000	-	4000	4000	-	-	-

Maximum working pressure (PSI)

Hose fitting Connection	Hose fitting size									
	-06	-08	-10	-12	-15	-18	-22	-28	-35	-42
DIN light	3625	3625	3625	3625	3625	2325	2325	1450	1450	1450

Hose fitting pressure chart for 4S/6S fittings only

All Eaton components

With higher pressures it is critical to know the construction materials and manufacturing method to ensure performance. When all components in a system are Eaton supplied, for example an Eaton hose fitting is mated with an Eaton adapter or tube fitting, the combination may be used at higher pressures with

confidence. These higher ratings are noted in the chart below.

MAXIMUM WORKING PRESSURE OF THE HOSE OR ADAPTER ASSEMBLY IS THE LESSER OF THE HOSE AND END CONNECTOR(S) USED.

All Eaton pressure ratings

Dash size	Inch size	37° JIC	Male pipe	Female pipe	Male ORB ORS adapter	Male ORB non-ORS adapter	Adjustable ORB ORS adap	Adjustable ORB non-ORS adapter	ORB	Male flareless	Code 61	Code 62	STC
-6	3/8	5000	8000	4000	9000	5000	6000	4000	9000	4000	-	-	5000
-8	1/2	4000	6000	4000	9000	4500	6000	4000	9000	4000	5000	6000	4250
-10	5/8	3800	-	-	9000	3500	6000	3000	9000	3000	-	-	4000
-12	3/4	5000	5000	3500	6000	3500	6000	3000	6000	3000	5000	6000	4000
-14	7/8	5000	-	-	6000	3000	6000	2500	-	2500	-	-	-
-16	1	5000	4000	3000	6000	3000	5000	2500	6000	2500	5000	6000	4000
-20	1 1/4	5000	3000	2000	4000	2500	4000	2000	4500	2000	4000	6000	-
-24	1 1/2	2100	2000	1500	4000	2500	3000	2000	4000	1500	3000	6000	-
-32	2	1750	2000	1500	3000	2000	2500	1500	3000	1125	3000	6000	-

1) These ratings are based on both brazed and one piece construction, one-piece pressures could be increased. Please contact Eaton in these situations.

2) This rating is for thin walled adapters or fittings, the use of manifolds or oversized female ports would allow full rated male pressures.

Note:

1. Eaton fittings are tested to industry standards and beyond to insure a long life. All assemblies listed in the All "Eaton Pressure Ratings" table have passed impulse testing at 133% of operating pressure up to 1 million cycles and meet a 4:1 burst pressure.
2. When assembled with all Eaton components, all SAE 37° JIC male and female terminal ends in the 4S & 6S product line are rated at the pressures listed in the table above and have passed one million impulse cycles at 133% of this pressure. All straight configurations achieve a 4:1 burst. The 45° and 90° elbow configurations in the -12 size meet a 3.2:1 burst the 45° and 90° elbow configurations in the -16 size achieve a 2.8:1 burst; the 45° and 90° elbow configurations in the -20 size meet a 4:1 burst and the 45° and 90° elbow configurations in the -24 size meet a 2.4:1 burst.

Design and Application

Eaton's Fluid Conveyance engineering and support teams have many decades of experience in designing, manufacturing and servicing hydraulic and other fluid conveyance systems globally. Eaton's product line is designed as a comprehensive collection of hose, fittings, connectors, couplings and accessories that allow a system designer to select components to complete a fluid power system or a service technician to replace a component with confidence. The individual

product specifications, the above pressure ratings and other technical information are intended as supporting guidelines for system design and service needs and are not to be construed as a guarantee of performance of the system or of individual Eaton components. Eaton provides comprehensive technical support so please call with questions about pressure needs not covered by these charts or for specific application support.

4S/6S Approved hoses

Premium

H430 High Pressure Spiral Hydraulic Hose



Exceeds SAE 100R12, EN 856 Type R12, EN 856 Type 4SP Performance



Diamond Advantage

- Pressure
- Temperature
- Abrasion Resistance

Inner Tube:

Synthetic rubber tube

Reinforcement:

4 wire spiral

Cover:

WeatherSHIELD™ synthetic rubber

Typical Application:

For very high pressure hydraulic lines subjected to pressure surges and flexing. Typical applications include construction, mining, farming, and high performance industrial equipment.

MSHA Approved Marine Application J1942/1 - Hydraulic only, ABS

Part #	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H43006	9.5	0.38	20.3	0.80	448	6,500	1,792	26,000	62.5	2.46	0.71	0.47
H43008	12.7	0.50	23.6	0.93	415	6,000	1,660	24,000	90.0	3.54	0.88	0.59
H43010	15.9	0.62	27.4	1.08	415	6,000	1,660	24,000	100.0	3.94	1.04	0.70
H43012	19.0	0.75	30.7	1.21	380	5,500	1,520	22,000	120.0	4.72	1.34	0.90
H43016	25.4	1.00	37.9	1.49	350	5,100	1,400	20,400	150.0	5.91	1.79	1.20
H43020	31.8	1.25	46.6	1.84	310	4,500	1,240	18,000	210.0	8.27	2.23	1.50
H43024	38.1	1.50	53.9	2.12	275	4,000	1,100	16,000	250.0	9.84	3.03	2.03
H43032	50.8	2.00	66.8	2.63	275	4,000	1,100	16,000	320.0	12.60	4.38	2.94

Operating Temperature:

-40°C to +127°C
(-40°F to +260°F)

Fittings:



4S Series

Premium

H471 WeatherFORCE - FLEX 5000™ Hose



Exceeds SAE 100R13, EN 856 Type R13, ISO 3862 Type R13 Performance

Inner Tube:

Synthetic rubber tube

Reinforcement:

-12 to -24 size: 4 wire spiral
-32 size: 6 wire spiral

Cover:

Synthetic rubber

Typical Application:

High pressure hydraulic system service with petroleum and water-base fluids.

MSHA Approved

Part #	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H47112	19.0	0.75	31.0	1.22	350	5,100	1,400	20,400	121	4.75	1.28	0.86
H47116	25.4	1.00	38.4	1.51	350	5,100	1,400	20,400	152	6.00	1.85	1.24
H47120	31.8	1.25	45.5	1.79	350	5,100	1,400	20,400	210	8.25	2.50	1.68
H47124	31.8	1.50	53.5	2.11	350	5,100	1,400	20,400	254	10.00	3.38	2.27
H47132	50.8	2.00	71.8	2.83	350	5,100	1,400	20,400	476	18.75	6.07	4.08

Operating Temperature:

-40°C to +127°C
(-40°F to +260°F)

Fittings:



4S/6S Series

4S/6S Approved hoses

Premium

EC600 X-Flex Hydraulic Hose



Exceeds SAE 100R15, ISO 18752-DC Performance

Part #	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC600-12	19.1	0.75	32.2	1.27	420	6,100	1,680	24,400	135	5.31	1.52	1.01
EC600-16	25.4	1.00	38.6	1.52	420	6,100	1,680	24,400	165	6.5	2.04	1.36
EC600-20	31.8	1.25	49.7	1.96	420	6,100	1,680	24,400	225	8.86	3.89	2.61

Temp. Range:

-40°C to +121°C
(-40°F to +250°F)

Fittings:



4S/6S Series

Inner Tube:

Synthetic rubber tube

Reinforcement:

-12, -16 size: 4 wire spiral
-20 size: 6 wire spiral

Cover:

WeatherSHIELD™ high abrasion synthetic rubber

Typical Application:

Hydraulic system service with petroleum and water-based fluids, for general industrial service.

MSHA Approved

Premium Abrasion

H430R RhinoHide II™

High Pressure Hydraulic Hose



Exceeds SAE 100R12, EN 856 Type R12 Performance

Part #	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H430R06	9.5	0.38	20.3	0.80	280	4,050	1,120	16,200	125	4.92	0.74	0.50
H430R08	12.7	0.50	23.2	0.92	280	4,050	1,120	16,200	180	7.09	0.86	0.58
H430R10	15.9	0.62	27.4	1.08	280	4,050	1,120	16,200	200	7.87	1.04	0.70
H430R12	19.0	0.75	30.7	1.21	280	4,050	1,120	16,200	240	9.45	1.29	0.87
H430R16	25.4	1.00	38.0	1.50	280	4,050	1,120	16,200	300	11.81	2.08	1.40
H430R20	31.8	1.25	47.0	1.85	210	3,050	840	12,200	420	16.54	2.74	1.84
H430R24	38.1	1.50	53.5	2.11	175	2,550	700	10,200	500	19.69	3.12	2.10
H430R32	50.8	2.00	66.7	2.63	175	2,550	700	10,200	640	25.20	4.18	2.81

Operating Temperature:

-40°C to +121°C
(-40°F to +250°F)

Fittings:



4S Series

Inner Tube:

Synthetic rubber tube

Reinforcement:

4 wire spiral

Cover:

UHMWPE

Typical Application:

High abrasion applications. Hydraulic system service with petroleum and water-based fluids, for general industrial service.

4S/6S Approved hoses

Premium High Temp.

EC525 AQP™ PLUS Hi-Temp Hydraulic Hose



Exceeds SAE 100R12, EN 856 Type R12 Performance

Part #	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC525-12	19.1	0.75	30.7	1.21	345	5,000	1380	20,000	241.3	9.50	1.28	0.86
EC525-16	25.4	1.00	37.9	1.49	345	5,000	1380	20,000	304.8	12.00	1.73	1.16
EC525-20	31.8	1.25	46.6	1.84	240	3,500	960	14,000	419.1	16.50	2.30	1.55
EC525-24	38.1	1.50	53.9	2.12	240	3,500	960	14,000	508.0	20.00	2.95	1.99
EC525-32	50.8	2.00	67.3	2.65	225	3,250	900	13,000	635.0	25.00	4.40	2.97

Operating Temperature:

-40°C to +149°C
(-40°F to +300°F)

Fittings:



4S Series

Premium Low Temp.

EC810 ICE CHAMPION™



Exceeds SAE 100R15, EN 856 Type R15 Performance

Part #	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC810-12	19.0	0.75	32.2	1.27	420	6,100	1,680	24,400	280	11.02	1.61	1.08
EC810-16	25.4	1.00	39.0	1.54	420	6,100	1,680	24,400	340	13.39	2.02	1.36
EC810-20	31.8	1.25	49.4	1.95	420	6,100	1,680	24,400	420	16.54	3.55	2.39
EC810-24	38.1	1.50	57.3	2.26	420	6,100	1,680	24,400	510	20.08	4.74	3.19
EC810-32	50.8	2.00	71.1	2.80	420	6,100	1,490	21,610	630	24.80	6.70	4.50

Operating Temperature :

-57°C to +100°C
(-70°F to +212°F)

Fittings:



4S/6S Series

Inner Tube:

AQP elastomer tube

Reinforcement:

4 wire spiral

Cover:

AQP elastomer

Typical Application:

Hydraulic system service with petroleum, fire-resistant and water based fluids, fuel and lubricating systems.

MSHA Approved

Inner Tube:

Exclusive low temperature tube

Reinforcement:

-12, -16 size: 4 wire spiral
-20 to -32 size: 6 wire spiral

Cover:

Synthetic rubber

Typical Application:

Hydraulic system with petroleum based fluids for low temperature applications.

MSHA Approved

4S/6S Approved hoses

High Pressure

H464 Hydraulic Hose



EN856 Type 4SH

Part #	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H46412	19,1	0.75	32,5	1.27	420,0	6,090	1679,6	24,360	279,4	11.00	45,4	100
H46416	25,4	1.00	38,1	1.50	385,0	5,510	1519,7	22,040	339,9	13.38	62,6	138
H46420	31,8	1.25	42,2	1.79	350,0	5,075	1399,7	20,300	460,0	18.11	77,6	171
H46424	38,1	1.50	54,0	2.11	300,0	4,350	1199,7	17,400	560,1	22.05	99,8	220
H46432	50,8	2.00	68,3	2.68	250,0	3,625	999,8	14,500	700,0	27.5	139,7	308

Operating Temperature:

-40°C to +100°C
(-40°F to +212°F)

Fittings:



4S Series

Inner Tube:

Nitrile

Reinforcement:

4 wire spiral

Cover:

Nitrile

Typical Application:

Perfect for hydraulic system service with petroleum and water-based fluids requiring premium pressure performance and durability.

This hose is well suited for injection mold and drill rig applications.

MSHA Accepted

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

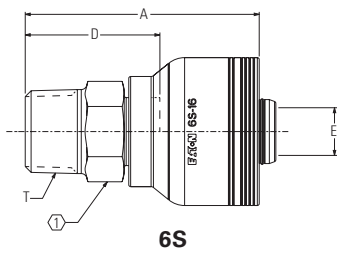
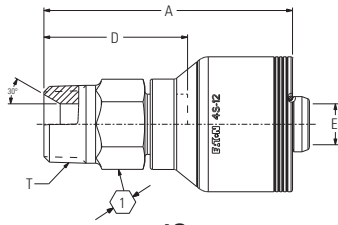
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Male Pipe NPTF - Rigid (MP)

Straight



# Part Number	Terminal End	 Hose Size		 Thread	A		D		E Ø		
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	in
4SA4MP6 (06-104)	-4	10	-6	1/4-18	51,4	2.02	30,1	1.18	6,7	0.26	11/16
4SA6MP6 (06-106)	-6	10	-6	3/8-18	55,0	2.17	32,2	1.27	6,7	0.26	11/16
4SA8MP6 (06-108)	-8	10	-6	1/2-14	53,7	2.11	32,4	1.28	6,7	0.26	7/8
4SA4MP8	-4	12	-8	1/4-18	58,5	2.30	31,3	1.23	7,7	0.30	13/16
4SA6MP8	-6	12	-8	3/8-18	60.8	2.39	33,6	1.32	9,6	0.38	13/16
4SA8MP8 (08-108)	-8	12	-8	1/2-14	71,0	2.80	40,6	1.60	9,6	0.38	7/8
4SA12MP8 (08-112)	-12	12	-8	3/4-14	62,6	2.46	35,4	1.39	9,6	0.38	1 1/16
4SA8MP10 (10-108)	-8	16	-10	1/2-14	66,2	2.61	40,1	1.58	12,8	0.50	15/16
4SA12MP10 (10-112)	-12	16	-10	3/4-14	61,7	2.43	35,6	1.40	12,8	0.50	1 1/16
4SA8MP12 (12-108)	-8	19	-12	1/2-14	84,6	3.33	48,4	1.90	14,2	0.56	7/8
4SA12MP12 (12-112)	-12	19	-12	3/4-14	85,9	3.38	49,6	1.95	14,2	0.56	1 1/16
4SA16MP12 (12-116)	-16	19	-12	1-11 1/2	84,8	3.34	48,6	1.91	14,2	0.56	1 3/8
4SA12MP16 (16-112)	-12	25	-16	3/4-14	89,1	3.51	49,2	1.94	19,2	0.75	1 3/8
4SA16MP16 (16-116)	-16	25	-16	1-11 1/2	94,0	3.70	54,1	2.13	19,2	0.75	1 3/8
4SA20MP16 (16-120)	-20	25	-16	1 1/4-11 1/2	90,4	3.56	50,5	1.99	19,2	0.75	1 11/16
4SA16MP20 (20-116)	-16	31	-20	1-11 1/2	107,6	4.24	52,5	2.07	25,2	0.99	1 7/16
4SA20MP20 (20-120)	-20	31	-20	1 1/4-11 1/2	119,6	4.71	64,4	2.54	25,2	0.99	1 11/16
4SA24MP24 (24-124)	-24	38	-24	1 1/2-11 1/2	143,2	5.64	65,2	2.57	31,1	1.22	2
4SA32MP32 (32-132)	-32	51	-32	2-11 1/2	150,1	5.91	72,1	2.84	42,1	1.66	2 1/2
6S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	in
6SA20MP20 (20-120)	-20	31	-20	1 1/4-11 1/2	120,4	4.74	64,4	2.54	25,2	0.99	1 11/16
6SA24MP24 (24-124)	-24	38	-24	1 1/2-11 1/2	143,2	5.64	65,2	2.57	31,1	1.22	2
6SA32MP32 (32-132)	-32	51	-32	2-11 1/2	150,1	5.91	72,1	2.84	42,1	1.66	2 1/2

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

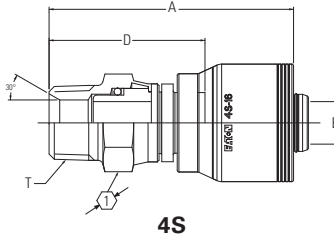
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Male Pipe NPTF Swivel (PS)

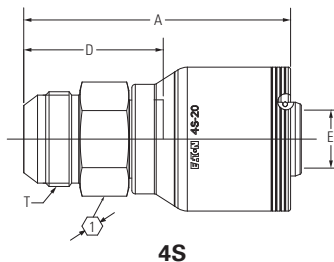
Straight



4S

Male JIC/37° - Rigid (MJ)

Straight



4S

# Part Number	Terminal End	 Hose Size	 Thread	A		D Cut Off Factor		E Ø			
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	
4SA16PS16 (16-J16)	-16	25	-16	1-11 1/2	110,2	4.34	70,1	2.76	19,2	0.75	1 1/2

# Part Number	Terminal End	 Hose Size	 Thread	A		D		E Ø			
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	in
4SA6MJ6 (06-506)	-6	10	-6	9/16-18	53,7	2.12	31,0	1.22	6,7	0.26	11/16
4SA8MJ6 (06-508)	-8	10	-6	3/4-16	49,4	1.94	28,1	1.11	6,7	0.26	13/16
4SA8MJ8 (08-508)	-8	12	-8	3/4-16	65,8	2.59	35,5	1.40	9,6	0.38	13/16
4SA10MJ8 (08-510)	-10	12	-8	7/8-14	59,1	2.33	31,9	1.26	9,6	0.38	15/16
4SA12MJ8	-12	12	-8	1 1/16-12	63,4	2.50	36,2	1.43	9,6	0.38	1 1/8
4SA10MJ10 (10-510)	-10	16	-10	7/8-14	69,4	2.73	40,5	1.59	12,3	0.48	15/16
4SA12MJ10 (10-512)	-12	16	-10	1 1/16-12	62,4	2.46	36,4	1.43	12,8	0.50	1 1/8
4SA10MJ12 (12-510)	-10	19	-12	7/8-14	84,3	3.32	48,2	1.90	12,3	0.48	15/16
4SA12MJ12 (12-512)	-12	19	-12	1 1/16-12	86,9	3.42	50,8	2.00	14,2	0.56	1 1/8
4SA14MJ12 (12-514)	-14	19	-12	1 3/16-12	83,1	3.27	47,0	1.85	14,2	0.56	1 1/4
4SA16MJ12 (12-516)	-16	19	-12	1 5/16-12	83,6	3.29	47,5	1.87	14,2	0.56	1 3/8
4SA16MJ16 (16-516)	-16	25	-16	1 5/16-12	93,7	3.69	54,0	2.13	19,2	0.75	1 3/8
4SA20MJ16 (16-520)	-20	25	-16	1 5/8-12	99,6	3.92	60,0	2.36	19,2	0.76	1 11/16
4SA20MJ20 (20-520)	-20	31	-20	1 5/8-12	115,7	4.56	60,5	2.38	25,2	0.99	1 11/16
4SA24MJ24 (24-524)	-24	38	-24	1 7/8-12	151,3	5.96	73,3	2.89	31,1	1.22	2
4SA32MJ32 (32-532)	-32	51	-32	2 1/2-12	163,8	6.45	85,8	3.38	42,1	1.66	2 5/8

 Refer to note below.

 When assembled with all Eaton components, all SAE 37° JIC male and female terminal ends in the 4S & 6S product line are rated at the pressures listed and have passed one million impulse cycles at 133% of this pressure. All straight configurations achieve a 4:1 burst. The 45° and 90° elbow configurations in the -12 size meet a 3.2:1 burst the 45° and 90° elbow configurations in the -16 size achieve a 2.8:1 burst; the 45° and 90° elbow configurations in the -20 size meet a 4:1 burst and the 45° & 90° elbow configurations in the -24 size meet a 2.4:1 burst.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

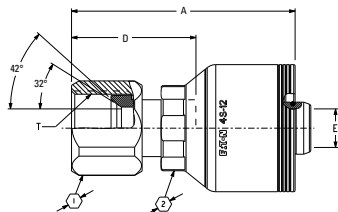
6S Fittings

For use with hoses:

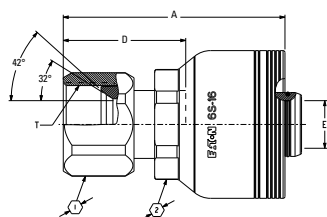
H471-32;
EC600-20;
EC810-20,-24,-32

Female JIC/37° Swivel (FJ)

Straight



4S



6S

⚠ Refer to note below.

# Part Number	Terminal End	Hose Size DN	Thread Dash size	in	A mm in	D mm in	E Ø mm in	1 mm in	2 mm in
4S	Dash size	DN	Dash size	in	mm in	mm in	mm in	mm in	in
4SA4FJ6 (06-604)	-4	10	-6	7/16-20	51,6 2.03	30,3 1.19	4,4 0.17	14,3 9/16	11/16
4SA6FJ6 (06-606)	-6	10	-6	9/16-18	53,0 2.09	32,2 1.27	6,7 0.26	17,5 11/16	11/16
4SA8FJ6 (06-608)	-8	10	-6	3/4-16	54,8 2.16	34,0 1.34	6,7 0.26	22,2 7/8	11/16
4SA6FJ8 (08-606)	-6	12	-8	9/16-18	68,3 2.69	38,0 1.50	9,6 0.38	17,5 11/16	11/16
4SA8FJ8 (08-608)	-8	12	-8	3/4-16	64,8 2.55	36,7 1.44	9,6 0.38	22,2 7/8	7/8
4SA10FJ8 (08-610)	-10	12	-8	7/8-14	67,3 2.65	39,2 1.54	9,6 0.38	25,4 1	7/8
4SA12FJ8 (08-612)	-12	12	-8	1 1/16-12	68,5 2.70	40,4 1.59	9,6 0.38	31,8 1 1/4	7/8
4SA10FJ10 (10-610)	-10	16	-10	7/8-14	66,1 2.60	40,6 1.60	12,8 0.50	25,4 1	1 1/16
4SA12FJ10 (10-612)	-12	16	-10	1 1/16-12	67,1 2.64	41,5 1.63	12,8 0.50	31,8 1 1/4	1 1/16
4SA10FJ12 (12-610)	-10	19	-12	7/8-14	75,0 2.95	38,8 1.53	12,3 0.48	30,0 1 3/16	1
4SA12FJ12 (12-612)	-12	19	-12	1 1/16-12	82,0 3.23	45,7 1.80	14,2 0.56	30,0 1 3/16	1 1/4
4SA14FJ12 (12-614)	-14	19	-12	1 3/16-12	77,5 3.05	41,3 1.63	14,2 0.56	30,0 1 3/16	1 3/8
4SA16FJ12 (12-616)	-16	19	-12	1 5/16-12	80,2 3.16	44,0 1.73	14,2 0.56	30,0 1 3/16	1 1/2
4SA12FJ16 (16-612)	-12	25	-16	1 1/16-12	78,8 3.10	39,1 1.54	15,5 0.61	41,0 1 5/8	1 1/4
4SA16FJ16 (16-616)	-16	25	-16	1 5/16-12	89,2 3.51	49,3 1.94	19,2 0.76	41,0 1 5/8	1 1/2
4SA20FJ16 (16-620)	-20	25	-16	1 5/8-12	85,8 3.38	46,0 1.81	19,2 0.76	41,0 1 5/8	2
4SA16FJ20 (20-616)	-16	31	-20	1 5/16-12	99,1 3.90	43,7 1.72	25,2 0.99	46,0 1 13/16	1 1/2
4SA20FJ20 (20-620)	-20	31	-20	1 5/8-12	101,6 4.00	46,3 1.82	25,2 0.99	46,0 1 13/16	2
4SA24FJ20 (20-624)	-24	31	-20	1 7/8-12	106,8 4.20	51,5 2.03	25,2 0.99	46,0 1 13/16	2 1/4
4SA24FJ24 (24-624)	-24	38	-24	1 7/8-12	134,9 5.31	56,8 2.24	31,1 1.22	57,0 2 1/4	2 1/4
4SA32FJ32 (32-632)	-32	51	-32	2 1/2-12	146,0 5.75	68,0 2.68	42,1 1.66	73,0 2 7/8	2 7/8
6S	Dash size	DN	Dash size	in	mm in	mm in	mm in	mm in	in
6SA20FJ20 (20-620)	-20	31	-20	1 5/8-12	102,3 4.03	46,3 1.82	25,2 0.99	46,0 1 13/16	2
6SA24FJ20 (20-624)	-24	31	-20	1 7/8-12	107,5 4.23	51,5 2.03	25,2 0.99	46,0 1 13/16	2 1/4
6SA24FJ24 (23-624)	-24	38	-24	1 7/8-12	134,9 5.31	56,8 2.24	31,1 1.22	57,0 2 1/4	2 1/4
6SA32FJ32 (32-632)	-32	51	-32	2 1/2-12	146,0 5.75	68,0 2.68	42,1 1.66	73,0 2 7/8	2 7/8

⚠ When assembled with all Eaton components, all SAE 37° JIC male and female terminal ends in the 4S & 6S product line are rated at the pressures listed and have passed one million impulse cycles at 133% of this pressure. All straight configurations achieve a 4:1 burst. The 45° and 90° elbow configurations in the -12 size meet a 3.2:1 burst the 45° and 90° elbow configurations in the -16 size achieve a 2.8:1 burst; the 45° and 90° elbow configurations in the -20 size meet a 4:1 burst and the 45° & 90° elbow configurations in the -24 size meet a 2.4:1 burst.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

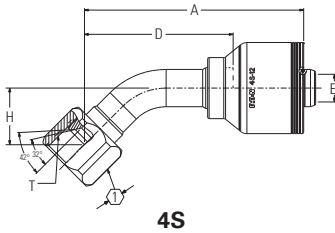
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Female JIC/37° Swivel (FJA)

45° Elbow



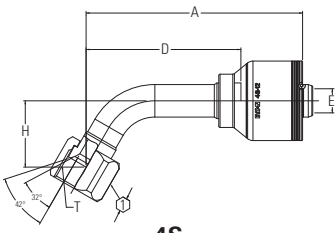
4S

# Part Number	Terminal End	Hose Size	Thread	A		D		E Ø		H		1
4S	Dash size	DN Dash size	in	mm	in	mm	in	mm	in	mm	in	in
4SA6FJA6 (06-686)	-6	10 -6	9/16-18	56,5	2.22	33,3	1.31	6,2	0.24	9,9	0.39	11/16
4SA8FJA6 (06-688)	-8	10 -6	3/4-16	75,6	2.98	54,3	2.14	6,7	0.26	24,2	0.95	7/8
4SA8FJA8 (08-688)	-8	12 -8	3/4-16	72,9	2.87	42,7	1.68	9,4	0.37	14,0	0.55	7/8
4SA10FJA8 (08-690)	-10	12 -8	7/8-14	82,5	3.25	55,3	2.18	9,4	0.37	25,3	1.00	1
4SA10FJA10	-10	16 -10	7/8-14	71,6	2.82	45,4	1.79	11,7	0.46	16,0	0.63	1
4SA12FJA10 (10-692)	-12	16 -10	1 1/16-12	92,6	3.65	66,5	2.62	12,8	0.50	29,4	1.16	1 1/4
4SA12FJA12 (12-692)	-12	19 -12	1 1/16-12	112,3	4.42	76,1	3.00	14,2	0.56	29,0	1.14	1 1/4
4SA16FJA12 (12-696)	-16	19 -12	1 5/16-12	133,6	5.26	97,5	3.84	14,2	0.56	38,0	1.50	1 1/2
4SA16FJA16 (16-696)	-16	25 -16	1 5/16-12	128,8	5.07	89,3	3.52	19,2	0.76	38,0	1.50	1 1/2
4SA20FJA16 (16-697)	-20	25 -16	1 5/8-12	120,1	4.73	80,4	3.17	19,2	0.75	32,0	1.26	2
4SA20FJA20 (20-697)	-20	31 -20	1 5/8-12	135,6	5.34	80,4	3.17	25,2	0.99	32,0	1.26	2
4SA24FJA24 (24-698)	-24	38 -24	1 7/8-12	212,0	8.35	134,0	5.28	31,1	1.22	43,0	1.69	2 1/4
6S	Dash size	DN Dash size	in	mm	in	mm	in	mm	in	mm	in	in
6SA20FJA20 (20-697)	-20	31 -20	1 5/8-12	136,4	5.37	80,4	3.17	25,2	0.99	32,0	1.26	2
6SA24FJA24 (24-698)	-24	38 -24	1 7/8-12	212,0	8.35	134,0	5.28	31,1	1.22	43,0	1.69	2 1/4

⚠ Refer to note below.

Female JIC/37° Swivel (FJG)

60° Elbow



4S

# Part Number	Terminal End	Hose Size	Thread	A		D		E Ø		H		1
4S	Dash size	DN Dash size	in	mm	in	mm	in	mm	in	mm	in	in
4SA12FJG12 (12-C62)	-12	19 -12	1 1/16-12	127,0	5.00	90,8	3.58	14,2	0.56	38,9	1.53	1 1/4
4SA16FJG16 (16-C66)	-16	25 -16	1 5/16-12	144,4	5.69	104,8	4.12	19,2	0.76	47,6	1.87	1 1/2

⚠ Refer to note below.

⚠ When assembled with all Eaton components, all SAE 37° JIC male and female terminal ends in the 4S & 6S product line are rated at the pressures listed and have passed one million impulse cycles at 133% of this pressure. All straight configurations achieve a 4:1 burst. The 45° and 90° elbow configurations in the -12 size meet a 3.2:1 burst the 45° and 90° elbow configurations in the -16 size achieve a 2.8:1 burst; the 45° and 90° elbow configurations in the -20 size meet a 4:1 burst and the 45° & 90° elbow configurations in the -24 size meet a 2.4:1 burst.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

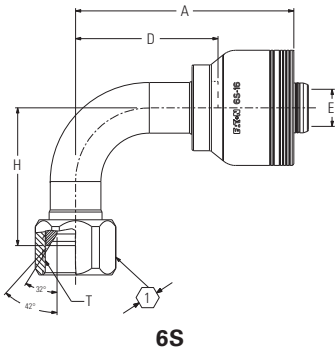
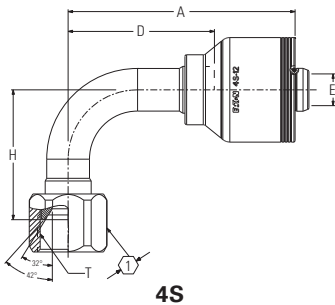
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Female JIC/37° Swivel (FJB)

90° Elbow

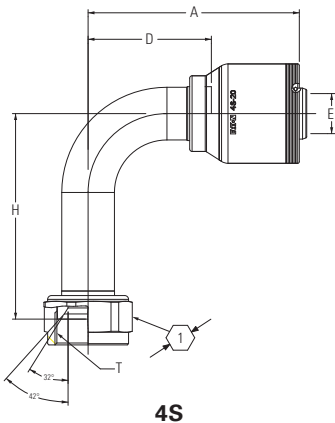


# Part Number	Terminal End	Hose Size DN	Thread Dash size	Thread in	A		D		E Ø		H		1
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	in
4SA6FJB6 (06-666)	-6	10	-6	9/16-18	54,1	2.13	30,9	1.22	6,2	0.24	21,6	0.85	11/16
4SA8FJB6 (06-668)	-8	10	-6	3/4-16	64,7	2.55	43,4	1.71	6,7	0.26	47,4	1.87	7/8
4SA8FJB8 (08-668)	-8	12	-8	3/4-16	67,1	2.64	36,7	1.44	9,4	0.37	27,7	1.09	7/8
4SA8FJB8TZ	-8	12	-8	3/4-16	67,1	2.64	36,7	1.44	9,4	0.37	27,7	1.09	7/8
4SA10FJB8 (08-670)	-10	12	-8	7/8-14	70,5	2.78	43,3	1.70	9,4	0.37	49,0	1.93	1
4SA10FJB10 (10-670)	-10	16	-10	7/8-14	70,2	2.76	39,3	1.55	11,7	0.46	31,2	1.23	1
4SA12FJB10 (10-672)	-12	16	-10	1 1/16-12	84,8	3.34	55,4	2.18	12,7	0.50	69,7	2.35	1 1/4
4SA12FJB12 (12-672)	-12	19	-12	1 1/16-12	101,3	3.99	65,3	2.57	14,2	0.56	58,0	2.28	1 1/4
4SA16FJB12 (12-676)	-16	19	-12	1 5/16-12	110,0	4.33	73,8	2.91	14,2	0.56	71,0	2.80	1 1/2
4SA16FJB16 (16-676)	-16	25	-16	1 5/16-12	113,1	4.45	73,5	2.89	19,2	0.76	71,0	2.80	1 1/2
4SA20FJB16 (16-677)	-20	25	-16	1 5/8-12	117,1	4.61	77,4	3.05	19,2	0.75	78,0	3.07	2
4SA20FJB20 (20-677)	-20	31	-20	1 5/8-12	132,6	5.22	77,4	3.05	25,2	0.99	78,0	3.07	2
4SA24FJB24 (24-678)	-24	38	-24	1 7/8-12	208,9	8.22	130,8	5.15	31,1	1.22	104,0	4.09	2 1/4
6S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	in
6SA20FJB20 (20-677)	-20	31	-20	1 5/8-12	133,4	5.25	77,4	3.05	25,2	0.99	78,0	3.07	2
6SA24FJB24 (24-678)	-24	38	-24	1 7/8-12	208,9	8.22	130,8	5.15	31,1	1.22	104,0	4.09	2 1/4

⚠ Refer to note below.

Female JIC/37° Swivel (FJC)

90° Elbow - Long Drop



# Part Number	Terminal End	Hose Size DN	Thread Dash size	Thread in	A		D		E Ø		H		1
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	in
4SA6FJC6 (06-464)	-6	-10	-6	9/16-18	54,1	2.13	30,9	1.21	6,2	0.24	55,4	2.18	11/16
4SA10FJC8 (08-650)	-10	-12	-8	7/8-14	70,5	2.78	43,3	1.70	9,4	0.37	86,2	3.39	1
4SA12FJC12 (12-652)	-12	19	-12	1 1/16-12	101,3	3.99	65,3	2.57	14,2	0.56	96,0	3.78	1 1/4
4SA16FJC16 (16-656L44)	-16	25	-16	1 5/16-12	112,5	4.43	73,5	2.89	19,0	0.75	114,0	4.49	1 1/2
4SA20FJC20 (20-677L50)	-20	31	-20	1 5/8-12	132,6	5.22	77,4	3.05	25,2	0.99	129,0	5.08	2

⚠ When assembled with all Eaton components, all SAE 37° JIC male and female terminal ends in the 4S & 6S product line are rated at the pressures listed and have passed one million impulse cycles at 133% of this pressure. All straight configurations achieve a 4:1 burst. The 45° and 90° elbow configurations in the -12 size meet a 3.2:1 burst the 45° and 90° elbow configurations in the -16 size achieve a 2.8:1 burst; the 45° and 90° elbow configurations in the -20 size meet a 4:1 burst and the 45° & 90° elbow configurations in the -24 size meet a 2.4:1 burst.

⚠ Refer to note.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

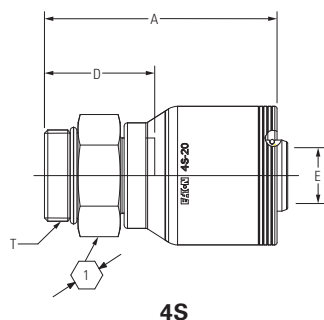
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Male O-ring Boss - Rigid (MB)

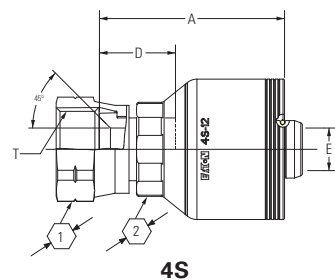
Straight



# Part Number	Terminal End	Hose Size	Thread	A		D		E Ø		1
4S	Dash size	DN Dash size	in	mm	in	mm	in	mm	in	in
4SA6MB6 (06-P06)	-6	10 -6	9/16-18	46,7	1.84	25,4	1.00	6,7	0.26	11/16
4SA8MB6 (06-P08)	-8	10 -6	3/4-16	46,1	1.81	24,8	0.98	6,7	0.26	7/8
4SA8MB8	-8	12 -8	3/4-16	57,4	2.26	30,1	1.19	9,6	0.38	7/8
4SA10MB8	-10	12 -8	7/8-14	54,8	2.16	27,6	1.09	9,6	0.38	1
4SA10MB10 (10-P10)	-10	16 -10	7/8-14	59,5	2.34	33,4	1.31	12,8	0.50	1
4SA12MB10 (10-P12)	-12	16 -10	1 1/16-12	57,3	2.26	31,2	1.23	12,8	0.50	1 1/4
4SA12MB12 (12-P12)	-12	19 -12	1 1/16-12	78,7	3.10	42,5	1.67	14,2	0.56	1 1/4
4SA16MB16 (16-P16)	-16	25 -16	1 5/16-12	88,1	3.47	48,5	1.91	19,2	0.76	1 1/2
4SA20MB20 (20-P20)	-20	31 -20	1 5/8-12	109,5	4.31	54,4	2.14	25,2	0.99	1 7/8
4SA24MB24 (24-P24)	-24	24 -24	1 7/8-12	134,1	5.28	56,0	2.21	31,1	1.22	2 1/8

Female SAE 45° Flare Swivel (FS)

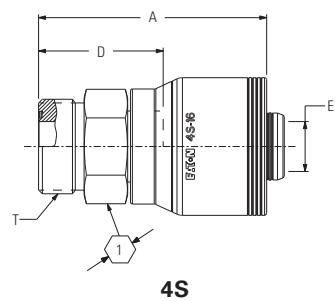
Straight



# Part Number	Terminal End	Hose Size	Thread	A		D		E Ø		1	2
4S	Dash size	DN Dash size	in	mm	in	mm	in	mm	in	in	in
4SA4FS6 (06-404)	-4	10 -6	7/16-20	51,6	2.03	30,3	1.19	4,9	0.19	9/16	11/16
4SA6FS6 (06-406)	-6	10 -6	5/8-18	54,7	2.15	33,4	1.31	6,7	0.26	3/4	11/16
4SA10FS8	-10	12 -8	7/8-14	64,6	2.54	37,4	1.47	9,6	0.38	1	13/16
4SA12FS12 (12-412)	-12	19 -12	1 1/16-14	61,5	2.42	25,4	1.00	14,2	0.56	1 1/4	1 3/16

Male ORS - Rigid (MR)

Straight



# Part Number	Terminal End	Hose Size	Thread	A		D		E Ø		1
4S	Dash size	DN Dash size	in	mm	in	mm	in	mm	in	in
4SA6MR6 (06-E66)	-6	10 -6	11/16-16	52,1	2.05	29,3	1.16	6,7	0.26	3/4
4SA8MR6 (06-E68)	-8	10 -6	13/16-16	45,5	1.79	24,2	0.95	6,7	0.26	7/8
4SA8MR8 (08-E68)	-8	12 -8	13/16-16	64,4	2.54	33,9	1.34	9,6	0.38	7/8
4SA12MR12 (12-E72)	-12	19 -12	1 3/16-12	80,8	3.18	44,4	1.75	14,2	0.56	1 1/4
4SA16MR12 (12-E76)	-16	19 -12	1 7/16-12	78,2	3.08	41,9	1.65	14,2	0.56	1 1/2
4SA16MR16 (16-E76)	-16	25 -16	1 7/16-12	87,7	3.45	47,9	1.89	19,2	0.76	1 1/2
4SA20MR16 (16-E80)	-20	25 -16	1 11/16-12	81,1	3.19	41,5	1.63	19,2	0.76	1 3/4
4SA20MR20 (20-E80)	-20	31 -20	1 11/16-12	107,1	4.22	52,0	2.05	25,2	0.99	1 3/4

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

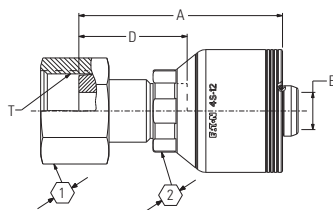
6S Fittings

For use with hoses:

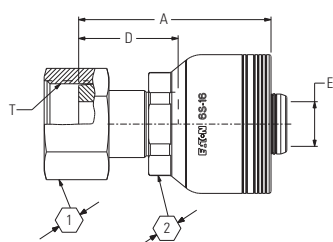
H471-32;
EC600-20;
EC810-20,-24,-32

Female ORS Swivel (FR)

Straight



4S



6S

													
Part Number	Terminal End	Hose Size	Thread	A		D		E Ø					
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	in
4SA6FR6 (06-S66)	-6	10	-6	11/16-16	52,7	2.07	31,4	1.24	6,7	0.26	30,0	13/16	11/16
4SA8FR6 (06-S68)	-8	10	-6	13/16-16	54,4	2.14	33,6	1.32	6,7	0.26	23,8	15/16	11/16
4SA6FR8	-6	12	-8	11/16-16	61,3	2.41	34,1	1.34	6,7	0.26	30,0	13/16	7/8
4SA8FR8 (08-S68)	-8	12	-8	13/16-16	66,2	2.61	38,1	1.50	9,1	0.36	23,8	15/16	7/8
4SA10FR8 (08-S70)	-10	12	-8	1 -14	65,4	2.57	37,3	1.47	9,6	0.38	28,6	1 1/8	7/8
4S8FR10	-8	16	-10	13/16-16	64,4	2.54	38,3	1.51	9,1	0.36	23,8	15/16	15/16
4S10FR10	-10	16	-10	1 -14	66,5	2.62	40,8	1.61	11,5	0.45	30,0	1 3/16	1 1/16
4SA10FR10 (10-S70)	-10	16	-10	1 -14	66,5	2.62	40,8	1.61	11,5	0.45	28,6	1 1/8	1 1/16
4SA12FR10 (10-S72)	-12	16	-10	1 3/16-12	67,2	2.65	41,4	1.63	12,8	0.50	34,9	1 3/8	1
4S12FR10	-12	16	-10	1 3/16-12	67,6	2.66	41,5	1.63	12,8	0.50	30,0	1 3/16	1.42
4SA10FR12 (12-S70)	-10	19	-12	1 -14	74,4	2.93	38,1	1.50	14,2	0.56	30,0	1 3/16	1 1/8
4SA12FR12 (12-S72)	-12	19	-12	1 3/16-12	77,4	3.05	41,2	1.62	14,2	0.56	30,0	1 3/16	1 3/8
4SA16FR12 (12-S76)	-16	19	-12	1 7/16-12	79,2	3.12	43,1	1.70	14,2	0.56	30,0	1 3/16	1 5/8
4SA12FR16 (16-S72)	-12	25	-16	1 3/16-12	80,5	3.17	40,8	1.61	19,2	0.76	41,0	1 5/8	1 3/8
4SA16FR16 (16-S76)	-16	25	-16	1 7/16-12	82,4	3.24	42,6	1.68	19,2	0.76	41,0	1 5/8	1 5/8
4SA20FR16 (16-S80)	-20	25	-16	1 11/16-12	82,4	3.24	42,7	1.68	19,2	0.76	41,0	1 5/8	1 7/8
4SA20FR20 (20-S80)	-20	31	-20	1 11/16-12	99,0	3.90	43,8	1.72	25,2	0.99	46,0	1 13/16	1 7/8
4SA24FR24 (24-S84)	-24	38	-24	2 -12	125,7	4.95	47,6	1.87	31,1	1.22	57,0	2 1/4	2 1/4
6S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	in
6SA20FR20 (20-S80)	-20	31	-20	1 11/16-12	99,8	3.93	43,8	1.72	25,2	0.99	46,0	1 13/16	1 7/8
6SA24FR24 (24-S84)	-24	38	-24	2 -12	125,7	4.95	47,6	1.87	31,1	1.22	57,0	2 1/4	2 1/4

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

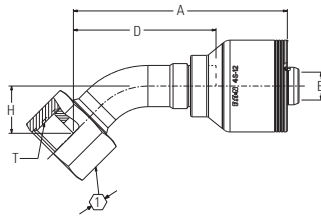
6S Fittings

For use with hoses:

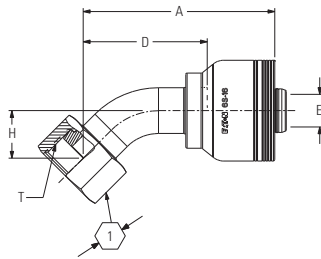
H471-32;
EC600-20;
EC810-20,-24,-32

Female ORS Swivel (FRA)

45° Elbow



4S



6S

#	Terminal	Hose Size	Thread	A		D		E Ø		H		1
Part Number	End	DN	Dash size	in	mm	in	mm	mm	in	mm	in	in
4S	Dash size	DN	Dash size	in	mm	in	mm	mm	in	mm	in	in
4SA4FRA6	-4	10	-6	9/16-18	54,4	2.14	33,1	4,2	0.17	10,4	0.41	11/16
4SA6FRA6 (06-L66)	-6	10	-6	11/16-16	59,9	2.36	36,3	6,2	0.24	10,9	0.43	13/16
4SA8FRA6 (06-L68)	-8	10	-6	13/16-16	65,6	2.58	44,3	6,7	0.26	15,0	0.59	15/16
4S8FRA8	-8	12	-8	13/16-16	72,7	2.86	45,5	9,1	0.36	15,0	0.59	15/16
4SA8FRA8 (08-L68)	-8	12	-8	13/16-16	76,1	3.00	45,5	8,5	0.33	15,0	0.59	15/16
4SA8FRA8.022	-8	12	-8	13/16-16	79,3	3.12	52,1	9,1	0.36	22,1	0.87	15/16
4SA10FRA8 (08-L70)	-10	12	-8	1 - 14	78,3	3.08	51,1	9,6	0.38	16,5	0.65	1 1/8
4SA10FRA10 (10-L70)	-10	16	-10	1 - 14	80,9	3.18	51,3	11,0	0.44	16,5	0.65	1 1/8
4SA12FRA10	-12	16	-10	1 3/16-12	86,1	3.39	60,0	12,8	0.50	21,1	0.83	1 3/8
4SA12FRA12 (12-L72)	-12	19	-12	1 3/16-12	108,7	4.28	72,5	14,2	0.56	24,0	0.94	1 3/8
4SA16FRA12 (12-L76)	-16	19	-12	1 7/16-12	119,9	4.72	83,7	14,2	0.56	28,0	1.10	1 5/8
4SA16FRA16 (16-L76)	-16	25	-16	1 7/16-12	112,8	4.44	73,0	19,2	0.76	28,0	1.10	1 5/8
4SA20FRA16 (16-L80)	-20	25	-16	1 11/16-12	136,7	5.38	97,0	19,2	0.76	31,0	1.22	1 7/8
4SA20FRA20 (20-L80)	-20	31	-20	1 11/16-12	153,4	6.04	98,1	25,2	0.99	31,0	1.22	1 7/8
4SA24FRA24 (24-L84)	-24	38	-24	2 - 12	212,0	8.35	134,0	31,1	1.22	43,0	1.69	2 1/4
6S	Dash size	DN	Dash size	in	mm	in	mm	mm	in	mm	in	in
6SA20FRA20 (20-L80)	-20	31	-20	1 11/16-12	154,1	6.07	98,1	25,2	0.99	31,0	1.22	1 7/8
6SA24FRA24 (24-L84)	-24	38	-24	2 - 12	212,0	8.35	134,0	31,1	1.22	43,0	1.69	2 1/4

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

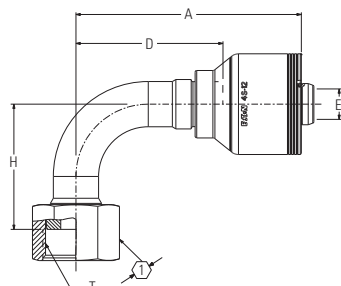
6S Fittings

For use with hoses:

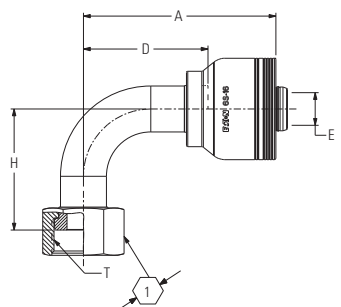
H471-32;
EC600-20;
EC810-20,-24,-32

Female ORS Swivel (FRB)

90° Elbow



4S



6S

# Part Number	Terminal End	Hose Size DN	Thread Dash size	in	mm	in	D mm	in	E Ø mm	in	H mm	in	1 mm	in
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	mm	in
4SA6FRB6	-6	10	-6	11/16-16	57,6	2.27	34,1	1.34	6,2	0.24	22,9	0.9	20,6	13/16
4SA6FRB6.038	-6	10	-6	11/16-16	55,4	2.18	34,1	1.34	6,4	0.25	38,4	1.51	20,6	13/16
4SA8FRB6	-8	10	-6	13/16-16	62,5	2.46	41,2	1.62	6,7	0.26	29,2	1.15	23,8	15/16
4SA6FRB8	-6	12	-8	11/16-16	62,4	2.46	35,2	1.39	6,4	0.25	22,9	0.9	20,6	13/16
4SA8FRB8	-8	12	-8	13/16-16	73,0	2.87	42,4	1.67	8,5	0.33	29,2	1.15	23,8	15/16
4SA10FRB8	-10	12	-8	1-14	75,6	2.98	48,4	1.91	9,6	0.38	32,3	1.27	28,6	1 1/8
4SA12FRB8	-12	12	-8	1 3/16-12	83,3	3.28	56,1	2.21	9,6	0.38	47,8	1.88	34,9	1 3/8
4S10FRB10	-10	16	-10	1-14	74,7	2.94	48,6	1.91	11,5	0.45	32,3	1.27	30,0	1 3/16
4SA10FRB10	-10	16	-10	1-14	78,3	3.08	43,6	1.91	11,0	0.44	32,3	1.27	28,6	1 1/8
4S10FRB10.047	-10	16	-10	1-14	74,7	2.94	48,6	1.91	11,5	0.45	47,0	1.85	30,0	1 3/16
4SA10FRB10.047	-10	16	-10	1-14	74,7	2.94	48,6	1.91	11,5	0.45	47,0	1.85	28,6	1 1/8
4S12FRB10	-12	16	-10	1 3/16-12	84,2	3.31	58,1	2.29	12,0	0.47	47,8	1.88	36,0	1.42
4SA12FRB10	-12	16	-10	1 3/16-12	84,2	3.31	58,1	2.29	12,0	0.47	47,8	1.88	34,9	1 3/8
4S12FRB10.058	-12	16	-10	1 3/16-12	82,9	3.26	56,8	2.24	12,0	0.47	57,9	2.28	36,0	1.42
4SA10FRB12	-10	19	-12	1-14	91,5	3.6	55,3	2.18	14,2	0.56	32,3	1.27	28,6	1 1/8
4SA12FRB12	-12	19	-12	1 3/16-12	104,4	4.11	68,1	2.68	14,2	0.56	58,0	2.28	34,9	1 3/8
4SA16FRB12	-16	19	-12	1 7/16-12	117,1	4.61	80,9	3.19	14,2	0.56	71,0	2.8	41,3	1 5/8
4SA12FRB16	-12	25	-16	1 3/16-12	107,5	4.23	67,7	2.67	19,2	0.76	58,0	2.28	34,9	1 3/8
4SA16FRB16	-16	25	-16	1 7/16-12	112,8	4.44	73,0	2.87	19,2	0.76	71,0	2.8	41,3	1 5/8
4SA20FRB16	-20	25	-16	1 11/16-16	136,5	5.37	96,8	3.81	19,2	0.76	78,0	3.07	47,6	1 7/8
4SA20FRB20	-20	31	-20	1 11/16-16	153,1	6.03	97,9	3.85	25,2	0.99	78,0	3.07	47,6	1 7/8
4SA24FRB20	-24	31	-20	2-12	152,9	6.02	97,9	3.85	25,2	0.99	86,0	3.39	57,2	2 1/4
4SA24FRB24	-24	38	-24	2-12	208,9	8.22	130,8	5.15	31,1	1.22	104,0	4.09	57,2	2 1/4
6S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	mm	in
6SA20FRB20	-20	31	-20	1 11/16-16	153,9	6.06	97,9	3.85	25,2	0.99	78,0	3.07	47,6	1 7/8
6SA24FRB2	-24	38	-24	2-12	208,9	8.22	130,8	5.15	31,1	1.22	104,0	4.09	57,2	2 1/4

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

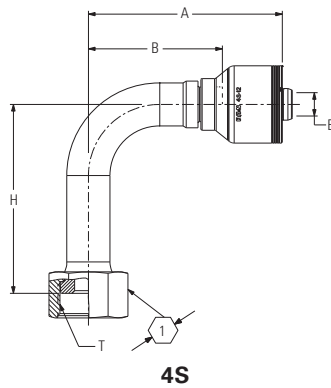
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Female ORS Swivel (FRC)

90° Elbow - Long Drop



# Part Number	Terminal End	Hose Size DN	Dash size	Thread in	A		D		E Ø		H		1 in
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	in
4SA6FRC6 (06-A66)	-6	10	-6	11/16-16	57,6	2.27	34,1	1.34	6,2	0.24	54,1	2.13	13/16
4SA8FRC6 (06-A68)	-8	10	-6	13/16-16	64,7	2.55	43,4	1.71	6,7	0.26	64,8	2.55	15/16
4S8FRC8	-8	12	-8	13/16-16	69,6	2.74	42,4	1.67	8,8	0.35	63,8	2.51	15/16
4SA8FRC8 (08-A68)	-8	12	-8	13/16-16	73,0	2.87	42,4	1.67	8,5	0.33	63,8	2.51	15/16
4SA10FRC8 (08-A70)	-10	12	-8	1-14	75,6	2.98	48,4	1.91	9,6	0.38	70,1	2.76	1 1/8
4SA10FRC10	-10	16	-10	1-14	78,3	3.08	48,6	1.91	11,0	0.44	70,1	2.76	1 1/8
4S12FRC10	-12	16	-10	1 3/16-12	84,2	3.31	58,1	2.29	12,0	0.47	96,0	3.78	1.42
4SA10FRC12 (12-A70)	-10	19	-12	1-14	91,5	3.60	55,3	2.18	14,2	0.56	70,0	2.76	1 1/8
4SA12FRC12 (12-A72)	-12	19	-12	1 3/16-12	104,4	4.11	68,1	2.68	14,2	0.56	96,0	3.78	1 3/8
4SA16FRC12 (12-A76)	-16	19	-12	1 7/16-12	117,1	4.61	80,9	3.19	14,2	0.56	114,0	4.49	1 5/8
4SA16FRC16 (16-A76)	-16	25	-16	1 7/16-12	112,8	4.44	73,0	2.87	19,2	0.76	114,0	4.49	1 5/8
4SA20FRC20 (20-A80)	-20	31	-20	1 11/16-12	152,9	6.02	97,9	3.85	25,2	0.99	129,0	5.08	1 7/8
4SA24FRC20 (20-A84)	-24	31	-20	2-12	152,9	6.02	97,9	3.85	25,2	0.99	141,0	5.55	2 1/4
4SA24FRC24 (24-A84L55)	-24	38	-24	2-12	152,9	6.02	97,9	3.85	25,2	0.99	141,0	5.55	2 1/4

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

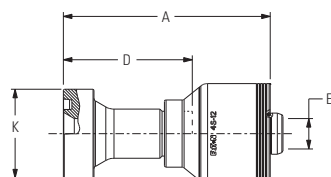
6S Fittings

For use with hoses:

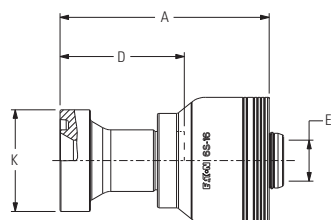
H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 61 Flange (FL)

Straight



4S



6S

Note: Reference page 46 for Code 61 Split Flange Kits

# Part Number	Terminal End	Hose Size		Flange Head Dia. K Ø		A		D		E Ø	
4S	Dash size	DN	Dash size	mm	in	mm	in	mm	in	mm	in
4S8FL8 (08-G08)	-8	12	-8	30,2	1.19	79,5	3.13	52,3	2.06	9,6	0.38
4S12FL8 (08-G12)	-12	12	-8	38,1	1.50	80,6	3.17	53,3	2.10	9,6	0.38
4S12FL10 (10-G12)	-12	16	-10	38,1	1.50	79,4	3.13	53,3	2.10	12,8	0.50
4S12FL12 (12-G12)	-12	19	-12	38,1	1.50	90,7	3.57	54,5	2.15	14,2	0.56
4S16FL12 (12-G16)	-16	19	-12	44,5	1.75	90,2	3.55	54,0	2.13	14,2	0.56
4S20FL12 (12-G20)	-20	19	-12	50,8	2.00	97,7	3.85	61,5	2.42	14,2	0.56
4S16FL16 (16-G16)	-16	25	-16	44,5	1.75	93,3	3.67	53,6	2.11	19,2	0.76
4S20FL16 (16-G20)	-20	25	-16	50,8	2.00	100,8	3.97	61,1	2.41	19,2	0.76
4S24FL16 (16-G24)	-24	25	-16	60,4	2.38	97,4	3.83	57,7	2.27	19,2	0.76
4S16FL20 (20-G16)	-16	31	-20	44,5	1.75	110,5	4.35	55,5	2.18	25,2	0.99
4S20FL20 (20-G20)	-20	31	-20	50,8	2.00	117,4	4.62	62,2	2.45	25,2	0.99
4S24FL20 (20-G24)	-24	31	-20	60,4	2.38	106,7	4.20	51,6	2.03	25,2	0.99
4S32FL20 (20-G32)	-32	31	-20	71,4	2.81	104,9	4.13	49,9	1.96	25,2	0.99
4S24FL24 (24-G24)	-24	38	-24	60,4	2.38	171,6	6.75	93,6	3.68	31,1	1.22
4S32FL24 (24-G32)	-32	38	-24	71,4	2.81	174,7	6.88	96,7	3.81	31,1	1.22
4S32FL32 (32-G32)	-32	51	-32	71,4	2.81	177,5	6.99	99,5	3.92	42,1	1.66
6S	Dash size	DN	Dash size	mm	in	mm	in	mm	in	mm	in
6S20FL20 (20-G20)	-20	31	-20	50,8	2.00	118,2	4.65	62,2	2.45	25,2	0.99
6S24FL24 (24-G24)	-24	38	-24	60,4	2.38	171,6	6.75	93,6	3.68	31,1	1.22
6S32FL24 (24-G32)	-32	38	-24	71,4	2.81	174,7	6.88	96,7	3.81	31,1	1.22
6S32FL32 (32-G32)	-32	51	-32	71,4	2.81	177,5	6.99	99,5	3.92	42,1	1.66

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

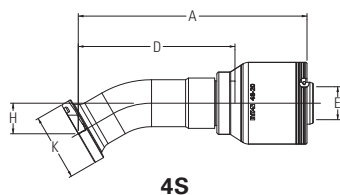
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 61 Flange (FLF)

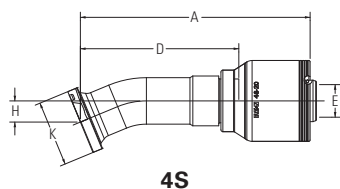
30° Elbow



# Part Number	Terminal End	Hose Size	Flange Head Dia. K Ø	A		D		E Ø		H	
4S	Dash size	DN Dash size	mm in	mm	in	mm	in	mm	in	mm	in
4S8FLF8 (08-H21)	-8	12 -8	30,2 1.19	81,8	3.32	54,6	2.15	9,1	0.36	12,6	0.50
4S12FLF12 (12-H22)	-12	19 -12	38,1 1.50	119,4	4.70	83,3	3.28	14,2	0.56	16,4	0.65
4S16FLF12 (12-H23)	-16	19 -12	44,4 1.75	134,6	5.30	98,4	3.87	14,2	0.56	19,3	0.76
4S16FLF16 (16-H23)	-16	25 -16	44,4 1.75	137,7	5.42	97,9	3.85	19,2	0.76	19,3	0.76
4S20FLF16 (16-H24)	-20	25 -16	50,8 2.00	158,3	6.23	118,6	4.67	19,2	0.76	23,3	0.92
4S20FLF20 (20-H24)	-20	31 -20	50,8 2.00	174,7	6.88	119,7	4.71	25,2	0.99	23,3	0.92
4S24FLF20 (20-H25)	-24	31 -20	60,4 2.38	169,9	6.69	114,9	4.52	25,2	0.99	24,1	0.95
4S24FLF24 (24-H25)	-24	38 -24	60,3 2.37	223,4	8.80	145,4	5.72	31,1	1.22	26,8	1.06
4S32FLF32 (32-H26)	-32	51 -32	71,4 2.81	265,9	10.47	187,8	7.39	42,1	1.66	33,9	1.34

SAE Code 61 Flange (FLD)

22.5° Elbow



# Part Number	Terminal End	Hose Size	Flange Head Dia. K Ø	A		D		E Ø		H	
4S	Dash size	DN Dash size	mm in	mm	in	mm	in	mm	in	mm	in
4S8FLD8 (08-H01)	-8	12 -8	30,2 1.19	83,2	3.28	56,0	2.20	9,1	0.36	9,1	0.36
4S12FLD8 (08-H02)	-12	12 -8	38,1 1.50	98,4	3.87	71,2	2.80	9,4	0.37	11,1	0.44
4S12FLD12 (12-H02)	-12	19 -12	38,1 1.50	121,3	4.78	85,1	3.35	14,2	0.56	11,6	0.46
4S16FLD12 (12-H03)	-16	25 -12	44,4 1.75	136,7	5.38	100,5	3.96	14,2	0.56	13,5	0.53
4S16FLD16 (16-H03)	-16	25 -16	44,4 1.75	139,8	5.50	100,1	3.94	19,2	0.76	13,5	0.53
4S20FLD16 (16-H04)	-20	25 -16	50,8 2.00	160,9	6.33	121,2	4.77	19,2	0.76	16,3	0.64
4S20FLD20 (20-H04)	-20	31 -20	50,8 2.00	177,3	6.98	122,3	4.81	25,2	0.99	16,3	0.64
4S24FLD20 (20-H05)	-24	31 -20	60,4 2.38	173,6	6.83	117,6	4.63	25,2	0.99	17,1	0.67
4S24FLD24 (24-H05)	-24	38 -24	60,3 2.37	226,4	8.91	148,4	5.84	31,1	1.22	18,8	0.74
4S32FLD24 (24-H06)	-32	38 -24	71,4 2.81	266,7	10.50	188,7	7.43	31,1	1.22	23,5	0.93
4S32FLD32 (32-H06)	-32	51 -32	71,4 2.81	269,6	10.61	191,5	7.54	42,1	1.66	23,5	0.93

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

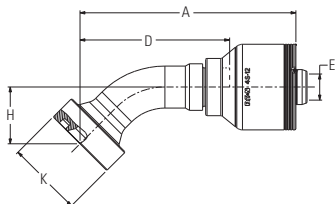
6S Fittings

For use with hoses:

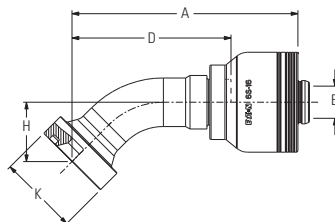
H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 61 Flange (FLA)

45° Elbow



4S



6S

#	Terminal	Hose Size	Flange Head	A		D		E Ø		H	
Part Number	End		Dia. K Ø	mm	in	mm	in	mm	in	mm	in
4S	Dash size	DN	Dash size								
4S8FLA8 (08-G41)	-8	12	-8	30,2	1.19	77,5	3.05	50,3	1.98	9,1	0.36
4S12FLA8 (08-G42)	-12	12	-8	38,1	1.50	90,6	3.57	63,4	2.50	9,6	0.38
4S12FLA10 (10-G42)	-12	16	-10	38,1	1.50	90,3	3.56	64,2	2.53	12,8	0.50
4S12FLA12 (12-G42)	-12	19	-12	38,1	1.50	113,8	4.48	77,6	3.06	14,2	0.56
4S16FLA12 (12-G46)	-16	19	-12	44,4	1.75	127,9	5.04	91,7	3.61	14,2	0.56
4S12FLA16 (16-G42)	-12	25	-16	38,1	1.50	116,9	4.60	77,2	3.04	19,2	0.76
4S16FLA16 (16-G46)	-16	25	-16	44,4	1.75	131,0	5.16	91,3	3.59	19,2	0.76
4S20FLA16 (20-G46)	-20	25	-16	50,8	2.00	150,2	5.91	110,5	4.35	19,2	0.76
4S16FLA20 (16-G50)	-16	31	-20	44,4	1.75	152,1	5.99	97,0	3.82	25,2	0.99
4S20FLA20 (20-G50)	-20	31	-20	50,8	2.00	166,8	6.57	111,6	4.39	25,2	0.99
4S24FLA20 (20-G54)	-24	31	-20	60,4	2.38	161,6	6.36	106,6	4.20	25,2	0.99
4S24FLA24 (24-G54)	-24	38	-24	60,3	2.37	214,3	8.44	136,3	5.37	31,1	1.22
4S32FLA24 (24-G62)	-32	38	-24	71,4	2.81	251,0	9.88	173,0	6.81	31,1	1.22
4S32FLA32 (32-G62)	-32	51	-32	71,4	2.81	253,9	10.00	175,9	6.92	42,1	1.66
6S	Dash size	DN	Dash size	mm	in	mm	in	mm	in	mm	in
6S20FLA20 (20-G50)	-20	31	-20	50,8	2.00	167,6	6.60	111,6	4.39	25,2	0.99
6S24FLA24 (24-G54)	-24	38	-24	60,3	2.37	214,3	8.44	136,3	5.37	31,1	1.22
6S32FLA24 (24-G62)	-32	38	-24	71,4	2.81	251,0	9.88	173,0	6.81	31,1	1.22
6S32FLA32 (32-G62)	-32	51	-32	71,4	2.81	253,9	10.00	175,9	6.92	42,1	1.66

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

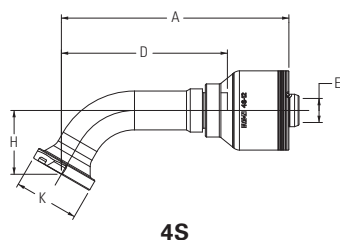
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 61 Flange (FLG)

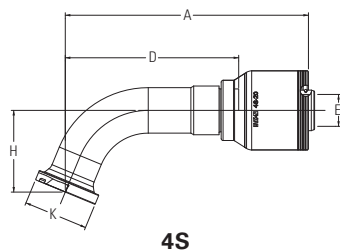
60° Elbow



#	Terminal End	Hose Size	Flange Head Dia. K Ø	A	D	E Ø	H
Part Number	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
4S8FLG8 (08-H51)	-8	12 -8	30,2 1.19	88,1 3.47	60,9 2.40	9,1 0.36	28,8 1.13
4S12FLG8 (08-H52)	-12	12 -8	38,1 1.50	107,2 4.22	80,0 3.15	9,6 0.38	35,4 1.39
4S12FLG12 (12-H52)	-12	19 -12	38,1 1.50	133,9 5.27	97,7 3.85	14,2 0.56	37,6 1.48
4S16FLG12 (12-H53)	-16	19 -12	44,4 1.75	153,2 6.03	117,1 4.61	14,2 0.56	44,7 1.76
4S16FLG16 (16-H53)	-16	25 -16	44,4 1.75	156,4 6.16	116,6 4.59	19,2 0.76	44,7 1.76
4S20FLG16 (16-H54)	-20	25 -16	50,8 2.00	183,3 7.22	143,5 5.65	19,2 0.76	55,8 2.20
4S20FLG20 (20-H54)	-20	25 -20	50,8 2.00	199,7 7.86	144,7 5.70	25,2 0.99	55,8 2.20
4S24FLG20 (20-H56)	-24	31 -20	60,4 2.38	188,1 7.41	133,0 5.24	25,2 0.99	51,7 2.04
4S24FLG24 (24-H55)	-24	38 -24	60,3 2.37	253,3 9.97	175,3 6.90	31,1 1.22	65,2 2.57
4S32FLG32 (32-H56)	-32	51 -32	71,4 2.81	309,1 12.17	231,1 9.10	42,1 1.66	85,8 3.38

SAE Code 61 Flange (FLE)

67.5° Elbow



#	Terminal End	Hose Size	Flange Head Dia. K Ø	A	D	E Ø	H
Part Number	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
4S8FLE8 (08-H61)	-8	12 -8	30,2 1.19	84,1 3.31	56,9 2.24	9,1 0.36	32,3 1.27
4S12FLE8 (08-H62)	-12	12 -8	38,1 1.50	101,9 4.01	74,6 2.94	9,6 0.38	40,6 1.60
4S12FLE12 (12-H62)	-12	19 -12	38,1 1.50	128,6 5.06	92,4 3.64	14,2 0.56	43,2 1.70
4S16FLE12 (12-H63)	-16	19 -12	44,4 1.75	147,0 5.79	110,8 4.36	14,2 0.56	51,5 2.03
4S16FLE16 (16-H63)	-16	25 -16	44,4 1.75	150,1 5.91	110,3 4.34	19,2 0.76	51,5 2.03
4S20FLE16 (16-H64)	-20	25 -16	50,8 2.00	175,4 6.91	135,7 5.34	19,2 0.76	64,4 2.54
4S20FLE20 (20-H64)	-20	31 -20	50,8 2.00	191,8 7.55	136,8 5.39	25,2 0.99	64,4 2.54
4S24FLE20 (20-H65)	-24	31 -20	60,4 2.38	180,8 7.12	125,8 4.95	25,2 0.99	59,5 2.34
4S24FLE24 (24-H65)	-24	38 -24	60,3 2.37	244,2 9.61	166,2 6.54	31,1 1.22	75,2 2.96
4S32FLE24 (24-H66)	-32	38 -24	71,4 2.81	294,1 11.58	216,1 8.51	31,1 1.22	99,3 3.91
4S32FLE32 (32-H66)	-32	51 -32	71,4 2.81	297,0 11.69	219,0 8.62	42,1 1.66	99,3 3.91

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

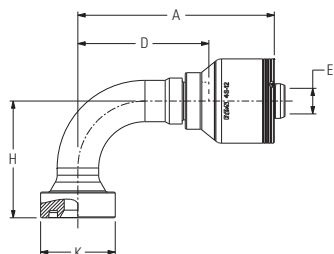
6S Fittings

For use with hoses:

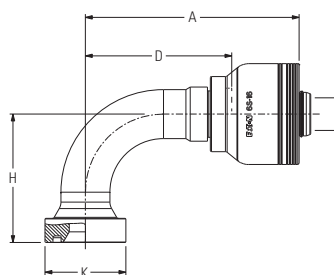
H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 61 Flange (FLB)

90° Elbow



4S

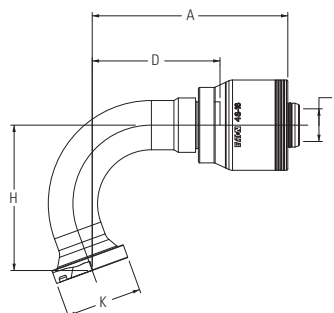


6S

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A	D	E Ø	H
4S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in	mm in
4S8FLB8 (08-G71)	-8	12	-8	30,2 1.19	69,5 2.74	42,3 1.67	9,1 0.36	41,4 1.63
4S12FLB8 (08-G72)	-12	12	-8	38,1 1.50	85,1 3.35	57,9 2.28	9,6 0.38	54,1 2.13
4S12FLB10 (10-G72)	-12	16	-10	38,1 1.50	84,2 3.31	58,1 2.29	12,8 0.50	54,1 2.13
4S12FLB12 (12-G72)	-12	19	-12	38,1 1.50	108,5 4.27	72,3 2.85	14,2 0.56	59,0 2.32
4S16FLB12 (12-G76)	-16	19	-12	44,4 1.75	122,8 4.84	86,6 3.41	14,2 0.56	71,0 2.80
4S20FLB12 (12-G80)	-20	19	-12	50,8 2.00	108,5 4.72	72,3 2.85	14,2 0.56	65,0 2.56
4S16FLB16 (16-G76)	-16	25	-16	44,4 1.75	126,0 4.96	86,2 3.39	19,2 0.76	71,0 2.80
4S16FLB16.116 (16-G76)	-16	25	-16	44,4 1.75	126,0 4.96	86,2 3.39	19,2 0.76	116,0 4.57
4S20FLB16 (16-G80)	-20	25	-16	50,8 2.00	145,2 5.72	105,4 4.15	19,2 0.76	89,0 3.50
4S24FLB16 (16-G84)	-24	25	-16	60,4 2.38	136,5 5.37	96,8 3.81	19,2 0.76	81,9 3.22
4S16FLB20 (20-G76)	-16	31	-20	44,4 1.75	147,1 5.79	91,9 3.62	25,2 0.99	71,0 2.80
4S20FLB20 (20-G80)	-20	31	-20	50,8 2.00	161,8 6.37	106,5 4.19	25,2 0.99	89,0 3.50
4S24FLB20 (20-G84)	-24	31	-20	60,4 2.38	152,9 6.02	97,9 3.85	25,2 0.99	81,9 3.22
4S24FLB24 (24-G84)	-24	38	-24	60,3 2.37	208,9 8.22	130,9 5.15	31,1 1.22	104,0 4.09
4S32FLB24 (24-G92)	-32	38	-24	71,4 2.81	247,4 9.74	169,4 6.67	31,1 1.22	138,0 5.43
4S32FLB32 (32-G92)	-32	51	-32	71,4 2.81	250,3 9.85	172,2 6.78	42,1 1.66	138,0 5.43
6S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in	mm in
6S20FLB20 (20-G80)	-20	31	-20	50,8 2.00	162,5 6.40	106,5 4.19	25,2 0.99	89,0 3.50
6S24FLB24 (24-G84)	-24	38	-24	60,3 2.37	208,8 8.22	130,8 5.15	31,1 1.22	104,0 4.09
6S32FLB24 (24-G92)	-32	38	-24	71,4 2.81	247,4 9.74	169,4 6.67	31,1 1.22	138,0 5.43
6S32FLB32 (32-G92)	-32	51	-32	71,4 2.81	250,3 9.85	172,2 6.78	42,1 1.66	138,0 5.43

SAE Code 61 Flange (FLH)

110° Elbow



4S

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A	D	E Ø	H
4S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in	mm in
4S16FLH16 (16-H73)	-16	25	-16	44,4 1.75	114,6 4.51	74,9 2.95	19,2 0.76	85,2 3.35

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

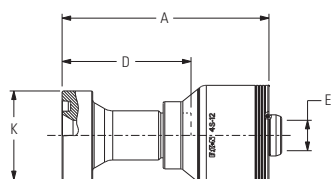
6S Fittings

For use with hoses:

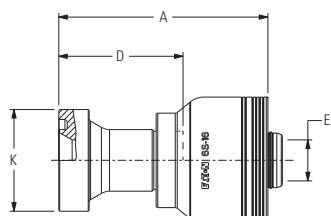
H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 62 Flange (FH)

Straight



4S



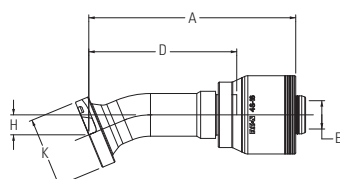
6S

Note: Reference page 46 for Code 62 Split Flange Kits

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A	D	E Ø
4S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in
4S8FH8 (08-D08)	-8	12	-8	31,8 1.25	79,5 3.13	52,3 2.06	9,6 0.38
4S12FH8 (08-D12)	-12	12	-8	41,3 1.63	80,6 3.17	53,3 2.10	9,6 0.38
4S12FH10 (10-D12)	-12	16	-10	41,3 1.63	79,6 3.13	53,5 2.11	12,8 0.50
4S12FH12 (12-D12)	-12	19	-12	41,3 1.63	90,7 3.57	54,5 2.15	14,2 0.56
4S16FH12 (12-D16)	-16	19	-12	47,7 1.88	90,2 3.55	54,0 2.13	14,2 0.56
4S12FH16 (16-D12)	-12	25	-16	41,3 1.63	96,3 3.79	56,7 2.23	14,2 0.56
4S16FH16 (16-D16)	-16	25	-16	47,7 1.88	98,9 3.89	59,1 2.33	19,2 0.76
4S20FH16 (16-D20)	-20	25	-16	54,0 2.13	100,8 3.97	61,0 2.40	19,2 0.76
4S16FH20 (20-D16)	-16	31	-20	47,7 1.88	123,8 4.87	68,6 2.70	25,2 0.99
4S20FH20 (20-D20)	-20	31	-20	54,0 2.13	123,3 4.85	68,1 2.68	25,2 0.99
4S24FH20 (20-D24)	-24	31	-20	63,5 2.50	129,0 5.08	73,9 2.91	25,2 0.99
4S24FH24 (24-D24)	-24	38	-24	63,5 2.50	189,6 7.46	111,6 4.39	31,1 1.22
4S32FH24 (24-D32)	-32	38	-24	79,4 3.13	204,4 8.05	126,4 4.89	31,1 1.22
4S32FH32 (32-D32)	-32	51	-32	79,4 3.13	202,7 7.98	124,7 4.91	42,1 1.66
6S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in
6S20FH20 (20-D20)	-20	31	-20	54,0 2.13	124,0 4.88	68,1 2.68	25,2 0.99
6S24FH20 (20-D24)	-24	31	-20	63,5 2.50	129,8 5.11	73,9 2.91	25,2 0.99
6S24FH24 (24-D24)	-24	38	-24	63,5 2.50	189,6 7.46	111,6 4.39	31,1 1.22
6S32FH24 (24-D32)	-32	38	-24	79,4 3.13	204,4 8.05	126,4 4.98	31,1 1.22
6S32FH32 (32-D32)	-32	51	-32	79,4 3.13	202,7 7.98	124,7 4.91	42,1 1.66

SAE Code 62 Flange (FHD)

22.5° Elbow



4S

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A	D	E Ø	H
4S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in	mm in
4S16FHD16 (16-N03)	-16	25	-16	47,7 1.88	140,0 5.51	100,1 3.94	19,2 0.76	13,5 0.53
4S20FHD16 (16-N04)	-20	25	-16	54,0 2.13	160,9 6.33	121,2 4.77	19,2 0.76	16,3 0.64
4S32FHD32 (32-N06)	-32	51	-32	79,4 3.13	269,6 10.61	191,5 7.54	42,1 1.66	23,5 0.93

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

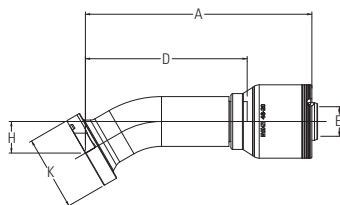
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 62 Flange (FHF)

30° Elbow

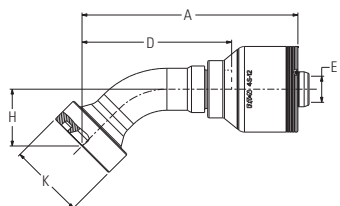


4S

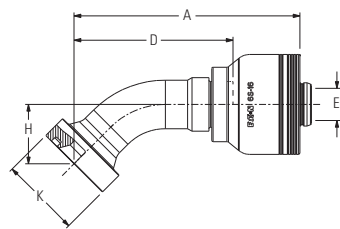
#	Terminal	Hose Size	Flange Head	A		D		E Ø		H	
Part Number	End	DN	Dia. K Ø	mm	in	mm	in	mm	in	mm	in
4S	Dash size	Dash size									
4S24FHF20 (20-N25)	-24	31 -20	63,5 2.50	192,6	7.58	137,6	5.42	25,2	0.99	26,8	1.06
4S32FHF32 (32-N26)	-32	51 -32	79,4 3.13	265,8	10.47	187,8	7.39	42,1	1.66	33,9	1.34

SAE Code 62 Flange (FHA)

45° Elbow



4S



6S

#	Terminal	Hose Size	Flange Head	A		D		E Ø		H	
Part Number	End	DN	Dia. K Ø	mm	in	mm	in	mm	in	mm	in
4S	Dash size	Dash size									
4S8FHA8 (08-D41)	-8	12 -8	31,8 1.25	77,5	3.05	50,3	1.98	9,1	0.36	19,8	0.78
4S12FHA8 (08-D42)	-12	12 -8	41,3 1.63	91,4	3.60	64,3	2.53	9,6	0.38	25,7	1.01
4S12FHA12 (12-D42)	-12	19 -12	41,3 1.63	113,8	4.48	77,6	3.06	14,2	0.56	27,0	1.06
4S16FHA12 (12-D46)	-16	19 -12	47,7 1.88	128,0	5.04	91,7	3.61	14,2	0.56	32,0	1.26
4S12FHA16 (16-D42)	-12	25 -16	41,3 1.63	116,9	4.60	77,2	3.04	15,1	0.59	27,0	1.06
4S16FHA16 (16-D46)	-16	25 -16	47,7 1.88	130,9	5.15	91,2	3.59	19,2	0.76	32,0	1.26
4S20FHA16 (16-D50)	-20	25 -16	54,0 2.13	150,2	5.91	110,5	4.35	19,2	0.76	39,0	1.54
4S20FHA20 (20-D50)	-20	31 -20	54,0 2.13	166,6	6.56	111,6	4.39	25,2	0.99	39,0	1.54
4S24FHA20 (20-D54)	-24	31 -20	63,5 2.50	183,2	7.21	128,2	5.05	25,2	0.99	45,0	1.77
4S24FHA24 (24-D54)	-24	38 -24	63,5 2.50	214,1	8.43	136,1	5.36	31,1	1.22	45,0	1.77
4S32FHA24 (24-D62)	-32	38 -24	79,4 3.13	251,0	9.88	173,0	6.81	31,1	1.22	57,5	2.26
4S32FHA32 (32-D62)	-32	51 -32	79,4 3.13	253,9	10.00	175,9	6.93	42,1	1.66	57,5	2.26
6S	Dash size	Dash size									
6S20FHA20 (20-D50)	-20	31 -20	54,0 2.13	167,6	6.60	111,6	4.39	25,2	0.99	39,0	1.54
6S24FHA20 (20-D54)	-24	31 -20	63,5 2.50	184,2	7.25	128,2	5.05	25,2	0.99	45,0	1.77
6S24FHA24 (24-D54)	-24	38 -24	63,5 2.50	214,1	8.43	136,1	5.36	31,1	1.22	45,0	1.77
6S32FHA24 (24-D62)	-32	38 -24	79,4 3.13	251,0	9.88	173,0	6.81	31,1	1.22	57,5	2.26
6S32FHA32 (32-D62)	-32	51 -32	79,4 3.13	253,9	10.00	175,9	6.93	42,1	1.66	57,5	2.26

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

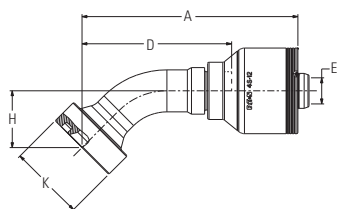
6S Fittings

For use with hoses:

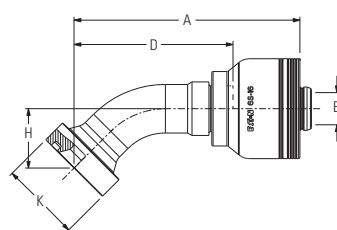
H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 62 Flange (FHG)

60° Elbow



4S

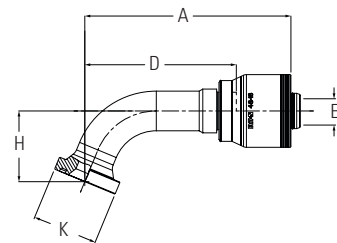


6S

#	Terminal End	Hose Size	Flange Head Dia. K Ø	A	D	E Ø	H
Part Number	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
4S							
4S12FHG12 (12-N52)	-12	19 -12	41,3 1.63	133,9 5.27	97,7 3.85	14,2 0.56	37,6 1.48
4S16FHG16 (16-N53)	-16	25 -16	47,7 1.88	156,4 6.16	116,6 4.59	19,2 0.76	44,6 1.76
4S32FHG32 (32-N56)	-32	51 -32	79,4 3.13	309,1 12.17	231,1 9.10	42,1 1.66	85,8 3.38
6S							
6S20FHG20 (20-N54)	-20	31 -20	54,0 2.13	200,6 7.90	144,6 5.69	25,2 0.99	55,8 2.20

SAE Code 62 Flange (FHE)

67.5° Elbow



4S

#	Terminal End	Hose Size	Flange Head Dia. K Ø	A	D	E Ø	H
Part Number	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
4S							
4S32FHE32 (32-N66)	-32	51 -32	79,4 3.13	297,0 11.69	219,0 8.62	42,1 1.66	99,3 3.91

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

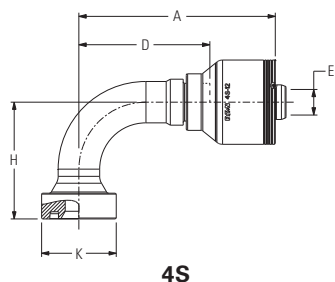
6S Fittings

For use with hoses:

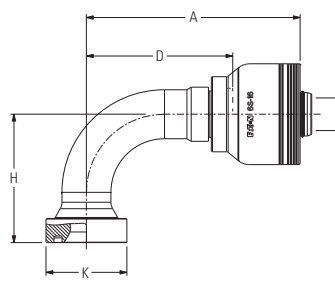
H471-32;
EC600-20;
EC810-20,-24,-32

SAE Code 62 Flange (FHB)

90° Elbow



4S



6S

#	Terminal	Hose Size	Flange Head	A		D		E Ø		H	
Part Number	End	Size	Dia. K Ø	mm	in	mm	in	mm	in	mm	in
4S	Dash size	DN	Dash size								
4S8FHB8 (08-D71)	-8	12	-8	31,8	1.25	69,5	2.74	42,3	1.67	9,1	0.36
4S12FHB8 (08-D72)	-12	12	-8	41,3	1.63	85,1	3.35	57,9	2.28	9,6	0.38
4S12FHB12 (12-D72)	-12	19	-12	41,3	1.63	108,5	4.27	72,3	2.85	14,2	0.56
4S16FHB12 (12-D76)	-16	19	-12	47,7	1.88	122,9	4.84	86,6	3.41	14,2	0.56
4S16FHB16 (16-D76)	-16	25	-16	47,7	1.88	125,5	4.94	86,1	3.39	19,2	0.76
4S16FHB16.120 (16-D76)	-16	25	-16	47,7	1.88	126,0	4.96	86,2	3.39	19,2	0.76
4S20FHB16 (16-D80)	-20	25	-16	54,0	2.13	145,3	5.72	105,4	4.15	19,2	0.76
4S16FHB20 (20-D76)	-16	31	-20	47,7	1.88	147,1	5.79	91,9	3.62	25,2	0.99
4S20FHB20 (20-D80)	-20	31	-20	54,0	2.13	161,5	6.36	106,5	4.19	25,2	0.99
4S20FHB20.120 (20-D80)	-20	31	-20	54,0	2.13	161,5	6.36	106,5	4.19	25,2	0.99
4S24FHB20 (20-D84)	-24	31	-20	63,5	2.50	178,0	7.01	123,0	4.84	25,2	0.99
4S24FHB24 (24-D84)	-24	38	-24	63,5	2.50	208,9	8.22	130,8	5.15	31,1	1.22
4S32FHB24 (24-D92)	-32	38	-24	79,4	3.13	247,4	9.74	169,4	6.67	31,1	1.22
4S32FHB32 (32-D92)	-32	51	-32	79,4	3.13	250,3	9.85	172,2	6.78	42,1	1.66
6S	Dash size	DN	Dash size	mm	in	mm	in	mm	in	mm	in
6S16FHB20 (20-D76)	-16	31	-20	47,7	1.88	147,9	5.82	91,9	3.62	25,2	0.99
6S20FHB20 (20-D80)	-20	31	-20	54,0	2.13	162,5	6.40	106,5	4.19	25,2	0.99
6S24FHB20 (20-D84)	-24	31	-20	63,5	2.50	179,0	7.05	123,0	4.84	25,2	0.99
6S24FHB24 (24-D84)	-24	38	-24	63,5	2.50	208,9	8.22	130,8	5.15	31,1	1.22
6S32FHB24 (24-D92)	-32	38	-24	79,4	3.13	247,4	9.74	169,4	6.67	31,1	1.22
6S32FHB32 (32-D92)	-32	51	-32	79,4	3.13	250,3	9.85	172,2	6.78	42,1	1.66

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

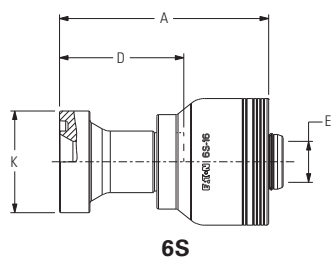
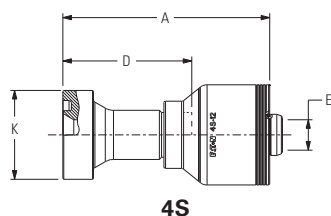
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

CAT® Flange (CT)

Straight



Note: Reference page 46
for Cat-Flange Replacement
"D" Ring

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A	D	E Ø
4S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in
4S12CT12 (12-K12)	-12	19	-12	41,3 1.63	96,2 3.79	60,0 2.36	14,2 0.56
4S16CT12 (12-K16)	-16	19	-12	47,6 1.87	94,9 3.74	58,7 2.31	14,2 0.56
4S16CT16 (16-K16)	-16	25	-16	47,6 1.87	102,1 4.02	62,3 2.45	19,2 0.76
4S20CT16 (16-K20)	-20	25	-16	54,0 2.13	104,8 4.13	65,0 2.56	19,2 0.76
4S20CT20 (20-K20)	-20	31	-20	54,0 2.13	124,5 4.90	69,1 2.72	25,2 0.99
4S24CT20** (20-K24)	-24	31	-20	63,5 2.50	130,9 5.15	75,9 2.99	25,2 0.99
4S24CT24 (24-K24)	-24	38	-24	63,5 2.50	195,0 7.68	117,0 4.61	31,1 1.22
4S32CT24 (24-K32)	-32	38	-24	79,4 3.13	206,0 8.11	128,0 5.04	31,1 1.22
4S32CT32 (32-K32)	-32	51	-32	79,4 3.13	208,9 8.22	130,9 5.15	42,1 1.66
6S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in
6S20CT20 (20-K20)	-20	31	-20	54,0 2.13	125,2 4.93	69,1 2.72	25,2 0.99
6S24CT20 (20-K24)	-24	31	-20	63,5 2.50	131,8 5.19	75,9 2.99	25,2 0.99
6S24CT24 (24-K24)	-24	38	-24	63,5 2.50	195,0 7.68	117,0 4.61	31,1 1.22
6S32CT24 (24-K32)	-32	38	-24	79,4 3.13	206,0 8.11	128,0 5.04	31,1 1.22
6S32CT32 (32-K32)	-32	51	-32	79,4 3.13	208,9 8.22	130,9 5.15	42,1 1.66

** Note: Items will be available in the near future. Communication will be sent when available.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

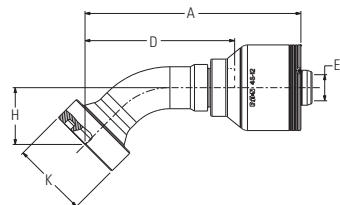
6S Fittings

For use with hoses:

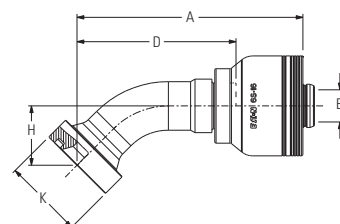
H471-32;
EC600-20;
EC810-20,-24,-32

CAT® Flange (CTA)

45° Elbow



4S



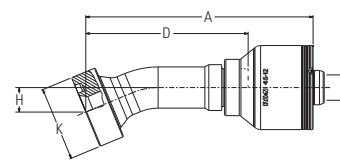
6S

** Note: Items will be available in the near future. Communication will be sent when available.

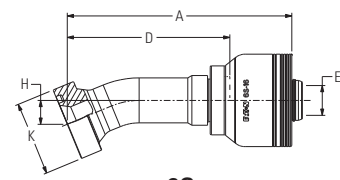
#	Terminal	Hose Size	Flange Head	A	D	E Ø	H
Part Number	End		Dia. K Ø				
4S	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
4S12CTA12 (12-K42)	-12	19 -12	41,3 1,63	117,7 4.63	81,5 3.21	14,2 0.56	30,9 1.22
4S16CTA12 (12-K46)	-16	19 -12	47,6 1,87	131,2 5.17	95,0 3.74	14,2 0.56	35,3 1.39
4S16CTA16 (16-K46)	-16	25 -16	47,6 1,87	134,3 5.29	94,6 3.72	19,2 0.76	35,3 1.39
4S20CTA16 (16-K50)	-20	25 -16	54,0 2,13	153,0 6.02	113,2 4.46	19,2 0.76	41,8 1.65
4S20CTA20 (20-K50)	-20	31 -20	54,0 2,13	169,4 6.67	114,3 4.50	25,2 0.99	41,8 1.65
4S24CTA20** (20-K54)	-24	31 -20	63,5 2,50	184,3 7.26	129,1 5.08	25,2 0.99	46,2 1.82
4S24CTA24 (24-K54)	-24	38 -24	63,5 2,50	215,2 8.47	137,2 5.40	31,1 1.22	46,2 1.82
4S32CTA32 (32-K62)	-32	51 -32	79,4 3,13	255,1 10.04	177,0 6.97	42,1 1.66	58,7 2.31
6S	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
6S20CTA20 (20-K50)	-20	31 -20	54,0 2,13	170,3 6.70	114,3 4.50	25,2 0.99	41,8 1.65
6S24CTA20 (20-K54)	-24	31 -20	63,5 2,50	185,3 7.30	129,1 5.08	25,2 0.99	46,2 1.82
6S24CTA24 (24-K54)	-24	38 -24	63,5 2,50	215,2 8.47	137,2 5.40	31,1 1.22	46,2 1.82
6S32CTA24 (24-K62)	-32	38 -24	79,4 3,13	252,2 9.93	174,2 6.86	31,1 1.22	58,7 2.31
6S32CTA32 (32-K62)	-32	51 -32	79,4 3,13	255,1 10.04	177,0 6.97	42,1 1.66	58,7 2.31

CAT® Flange (CTD)

22.5° Elbow



4S



6S

** Note: Items will be available in the near future. Communication will be sent when available.

#	Terminal	Hose Size	Flange Head	A	D	E Ø	H
Part Number	End		Dia. K Ø				
4S	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
4S12CTD12 (12-BD12)	-12	19 -12	41,3 1,63	126,2 4.97	90,2 3.55	14,2 0.56	13,6 0.54
4S16CTD16 (16-BD16)	-16	25 -16	47,6 1,87	144,2 5.68	104,4 4.11	19,2 0.76	15,3 0.60
4S20CTD16 (16-BD20)	-20	25 -16	54,0 2,13	164,5 6.48	124,8 4.91	19,2 0.76	17,8 0.70
4S20CTD20** (20-BD20)	-20	31 -20	54,0 2,13	180,9 7.12	125,9 4.96	25,2 0.99	17,8 0.70
4S24CTD20** (20-BD24)	-24	31 -20	63,5 2,50	197,0 7.76	142,0 5.59	25,2 0.99	19,4 0.76
4S24CTD24 (24-BD24)	-24	38 -24	63,5 2,50	227,9 8.97	149,9 5.90	31,1 1.22	19,4 0.76
4S32CTD32 (32-BD32)	-32	51 -32	79,4 3,13	271,1 10.67	193,0 7.60	42,1 1.66	24,2 0.95
6S	Dash size	DN Dash size	mm in	mm in	mm in	mm in	mm in
6S20CTD20 (20-BD20)	-20	31 -20	54,0 2,13	181,9 7.16	125,9 4.96	25,2 0.99	17,8 0.70
6S24CTD20 (20-BD24)	-24	31 -20	63,5 2,50	198,0 7.80	142,0 5.59	25,2 0.99	19,4 0.76
6S24CTD24 (24-BD24)	-24	38 -24	63,5 2,50	227,9 8.97	149,9 5.90	31,1 1.22	19,4 0.76
6S32CTD32 (32-BD32)	-32	51 -32	79,4 3,13	271,1 10.67	193,0 7.60	42,1 1.66	24,2 0.95

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

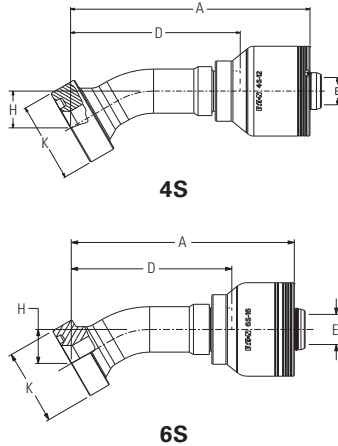
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

CAT® Flange (CTF)

30° Elbow

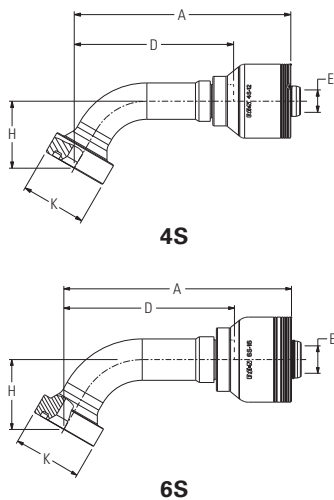


** Note: Items will be available in the near future. Communication will be sent when available.

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A		D		E Ø		H	
4S	Dash size	DN	Dash size	mm in	mm	in	mm	in	mm	in	mm	in
4S12CTF12 (12-BD42)	-12	19	-12	41,3 1.63	124,2	4.89	88,0	3.46	14,2	0.56	19,1	0.75
4S16CTF16 (16-BD46)	-16	25	-16	47,6 1.87	141,7	5.58	102,0	4.02	19,2	0.76	21,6	0.85
4S20CTF16 (16-BD50)	-20	25	-16	54,0 2.13	161,7	6.37	122,0	4.80	19,2	0.76	25,3	1.00
4S20CTF20** (20-BD50)	-20	31	-20	54,0 2.13	178,1	7.01	123,1	4.85	25,2	0.99	25,3	1.00
4S24CTF20** (20-BD54)	-24	31	-20	63,5 2.50	194,0	7.64	138,9	5.47	25,2	0.99	27,7	1.09
4S24CTF24 (24-BD54)	-24	38	-24	63,5 2.50	224,8	8.85	146,8	5.78	31,1	1.22	27,7	1.09
4S32CTF32 (32-BD62)	-32	51	-32	79,4 3.13	267,3	10.52	189,2	7.45	42,1	1.66	34,8	1.37
6S	Dash size	DN	Dash size	mm in	mm	in	mm	in	mm	in	mm	in
6S20CTF20 (20-BD50)	-20	31	-20	54,0 2.13	179,1	7.05	123,1	4.85	25,2	0.99	25,3	1.00
6S24CTF20 (20-BD54)	-24	31	-20	63,5 2.50	194,9	7.67	138,9	5.47	25,2	0.99	27,7	1.09
6S24CTF24 (24-BD54)	-24	38	-24	63,5 2.50	224,8	8.85	146,8	5.78	31,1	1.22	27,7	1.09
6S32CTF24 (24-BD62)	-32	38	-24	79,4 3.13	264,3	10.41	186,3	7.34	31,1	1.22	34,8	1.37
6S32CTF32 (32-BD62)	-32	51	-32	79,4 3.13	267,3	10.52	189,2	7.45	42,1	1.66	34,8	1.37

CAT® Flange (CTG)

60° Elbow



** Note: Items will be available in the near future. Communication will be sent when available.

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A		D		E Ø		H	
4S	Dash size	DN	Dash size	mm in	mm	in	mm	in	mm	in	mm	in
4S12CTG12 (12-BD72)	-12	19	-12	41,3 1.63	136,6	5.38	100,5	3.96	14,2	0.56	42,3	1.67
4S16CTG16 (16-BD76)	-16	25	-16	47,6 1.87	158,8	6.25	119,0	4.69	19,2	0.76	48,7	1.92
4S20CTG16 (16-BD80)	-20	25	-16	54,0 2.13	185,2	7.29	145,5	5.73	19,2	0.76	59,2	2.33
4S20CTG20** (20-BD80)	-20	31	-20	54,0 2.13	201,6	7.94	146,6	5.77	25,2	0.99	59,2	2.33
4S24CTG20** (20-BD84)	-24	31	-20	63,5 2.50	223,3	8.79	168,3	6.63	25,2	0.99	66,6	2.62
4S24CTG24 (24-BD84)	-24	38	-24	63,5 2.50	254,2	10.01	176,2	6.94	31,1	1.22	66,6	2.62
4S32CTG32 (32-BD92)	-32	51	-32	79,4 3.13	310,0	12.20	231,9	9.13	42,1	1.66	87,3	3.44
6S	Dash size	DN	Dash size	mm in	mm	in	mm	in	mm	in	mm	in
6S20CTG20 (20-BD80)	-20	31	-20	54,0 2.13	202,6	7.98	146,6	5.77	25,2	0.99	59,2	2.33
6S24CTG20 (20-BD84)	-24	31	-20	63,5 2.50	224,3	8.83	168,3	6.63	25,2	0.99	66,6	2.62
6S24CTG24 (24-BD84)	-24	38	-24	63,5 2.50	254,2	10.01	176,2	6.94	31,1	1.22	66,6	2.62
6S32CTG24 (24-BD92)	-32	38	-24	79,4 3.13	307,0	12.09	229,0	9.02	31,1	1.22	87,3	3.44
6S32CTG32 (32-BD92)	-32	51	-32	79,4 3.13	310,0	12.20	231,9	9.13	42,1	1.66	87,3	3.44

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

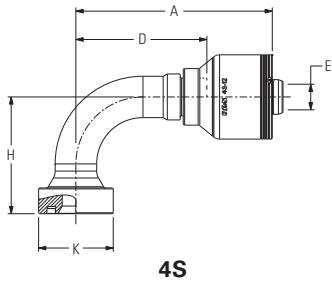
6S Fittings

For use with hoses:

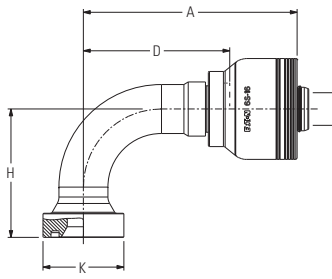
H471-32;
EC600-20;
EC810-20,-24,-32

CAT® Flange (CTB)

90° Elbow



4S



6S

# Part Number	Terminal End	Hose Size DN	Hose Size Dash size	Flange Head Dia. K Ø	A	D	E Ø	H
4S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in	mm in
4S12CTB12 (12-K72)	-12	19	-12	41,3 1.63	108,5 4.27	72,3 2.85	14,2 0.56	64,5 2.54
4S16CTB12 (12-K76)	-16	19	-12	47,6 1.87	122,8 4.83	86,6 3.41	14,2 0.56	75,7 2.98
4S16CTB16 (16-K76)	-16	25	-16	47,6 1.87	126,0 4.96	86,2 3.39	19,2 0.76	75,7 2.98
4S20CTB16 (16-K80)	-20	25	-16	54,0 2.13	145,2 5.72	105,4 4.15	19,2 0.76	92,9 3.66
4S20CTB20 (20-K80)	-20	31	-20	54,0 2.13	161,5 6.36	106,5 4.19	25,2 0.99	92,9 3.66
4S24CTB20** (20-K84)	-24	31	-20	63,5 2.50	178,0 7.01	123,0 4.84	25,2 0.99	105,6 4.16
4S24CTB24 (24-K24)	-24	38	-24	63,5 2.50	208,9 8.22	130,9 5.15	31,1 1.22	105,7 4.16
4S32CTB32 (32-K32)	-32	51	-32	79,4 3.13	250,3 9.85	172,2 6.78	42,1 1.66	139,7 5.50
6S	Dash size	DN	Dash size	mm in	mm in	mm in	mm in	mm in
6S20CTB20 (20-K80)	-20	31	-20	54,0 2.13	162,5 6.40	106,5 4.19	25,2 0.99	92,9 3.66
6S24CTB20 (20-K84)	-24	31	-20	63,5 2.50	179,0 7.05	123,0 4.84	25,2 0.99	105,6 4.16
6S24CTB24 (24-K24)	-24	38	-24	63,5 2.50	208,9 8.22	130,9 5.15	31,1 1.22	105,7 4.16
6S32CTB24 (24-K32)	-32	38	-24	79,4 3.13	247,4 9.74	169,4 6.67	31,1 1.22	139,7 5.50
6S32CTB32 (32-K32)	-32	51	-32	79,4 3.13	250,3 9.85	172,2 6.78	42,1 1.66	139,7 5.50

** Note: Items will be available in the near future. Communication will be sent when available.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

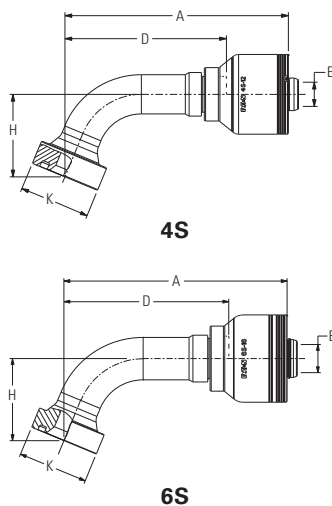
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

CAT® Flange (CTE)

67.5° Elbow

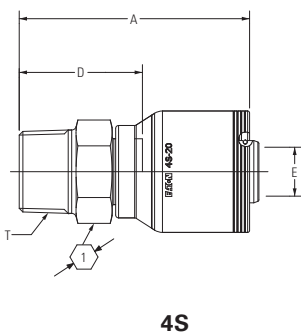


# Part Number	Terminal End	Hose Size	Flange Head Dia. K Ø	A		D		E Ø		H	
4S	Dash size	DN	Dash size	mm	in	mm	in	mm	in	mm	in
4S12CTE12 (12-BE12)	-12	19	-12	41,3	1.63	130,7	5.15	94,5	3.72	14,2	0.56
4S16CTE16 (16-BE16)	-16	25	-16	47,6	1.87	151,9	5.98	112,2	4.42	19,2	0.76
4S20CTE16 (16-BE20)	-20	25	-16	54,0	2.13	176,9	6.96	137,1	5.40	19,2	0.76
4S20CTE20** (20-BE20)	-20	31	-20	54,0	2.13	193,3	7.61	138,3	5.44	25,2	0.99
4S24CTE20** (20-BE24)	-24	31	-20	63,5	2.50	214,0	8.42	159,0	6.26	25,2	0.99
4S24CTE24 (24-BE24)	-24	38	-24	63,5	2.50	244,8	9.64	166,8	6.57	31,1	1.22
4S32CTE32 (32-BE32)	-32	51	-32	79,4	3.13	297,6	11.72	219,6	8.65	42,1	1.66
6S	Dash size	DN	Dash size	mm	in	mm	in	mm	in	mm	in
6S20CTE20 (20-BE20)	-20	31	-20	54,0	2.13	194,2	7.65	138,3	5.44	25,2	0.99
6S24CTE20 (20-BE24)	-24	31	-20	63,5	2.50	214,9	8.46	159,0	6.26	25,2	0.99
6S24CTE24 (24-BE24)	-24	38	-24	63,5	2.50	244,8	9.64	166,8	6.57	31,1	1.22
6S32CTE24 (24-BE32)	-32	38	-24	79,4	3.13	294,7	11.60	216,7	8.53	31,1	1.22
6S32CTE32 (32-BE32)	-32	51	-32	79,4	3.13	297,6	11.72	219,6	8.65	42,1	1.66

** Note: Items will be available in the near future. Communication will be sent when available.

BSP Male Tapered Rigid (BT)

Straight



# Part Number	Terminal End	Hose Size	Thread	A		D		E Ø		1
4S	Dash size	DN	Dash size	in	mm	in	mm	mm	in	mm
4S12BT12 (12-162)	-12	19	-12	R 3/4-14	84,0	3.31	47,7	1.88	14,2	0.56
4S16BT16 (16-166)	-16	25	-16	R 1-11	94,9	3.74	55,2	2.17	19,2	0.76
4S20BT20 (20-170)	-20	31	-20	R 1 1/4-11	118,4	4.66	63,3	2.49	25,2	0.99

"R" as part of thread size is ISO designation for tapered thread.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

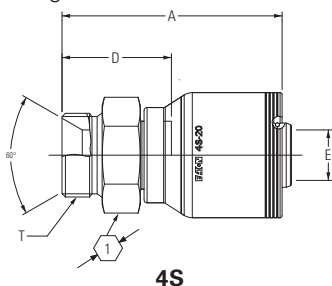
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

BSP Male Parallel Rigid (BP)

60° Cone Seat
Straight



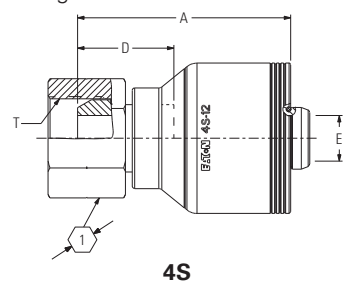
4S

 Part Number	 Terminal End	 Hose Size	 Thread	A		D		E Ø			
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm
4S12BP12 (12-P62)	-12	19	-12	G 3/4-14	79,6	3.13	43,4	1.71	14,2	0.56	32,0
4S16BP16 (12-P66)	-16	25	-16	G 1-11	89,8	3.53	50,1	1.97	19,2	0.75	41,0
4S20BP20 (20-P67)	-20	31	-20	G 1 1/4-11	109,7	4.32	54,5	2.15	25,1	0.99	50,0

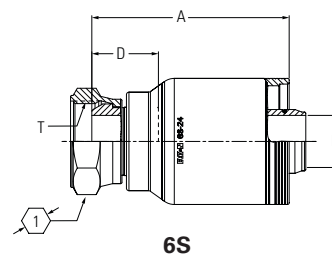
"G" as part of thread size is ISO designation for parallel thread.

Female BSPP Swivel (BF)

60° Cone Seat
Straight



4S



6S

											
Part Number	Terminal End	Hose Size		Thread	A		D		E Ø		
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm
4S6BF6	-6	10	-6	G 3/8	46,4	1.83	21,1	0.83	6,7	0.26	22,0
4S8BF8 (08-358)	-8	12	-8	G 1/2	53,5	2.11	23,8	0.94	9,6	0.38	27,0
4S12BF12 (12-362)	-12	19	-12	G 3/4	66,2	2.61	29,9	1.18	14,2	0.56	32,0
4S16BF12 (12-366)	-16	19	-12	G 1	68,7	2.70	32,3	1.27	14,2	0.56	41,0
4S16BF16 (16-366)	-16	25	-16	G 1	71,0	2.80	32,3	1.27	19,2	0.76	41,0
4S20BF16 (16-370)	-20	25	-16	G 1 1/4	72,5	2.85	32,7	1.29	19,2	0.76	50,0
4S20BF20 (20-370)	-20	31	-20	G 1 1/4	82,8	3.26	32,7	1.29	25,2	0.99	50,0
4S24BF24 (24-374)	-24	38	-24	G 1 1/2	117,9	4.64	39,8	1.57	31,1	1.22	55,0
4S32BF32 (32-375)	-32	51	-32	G 2	121,0	4.76	43,0	1.69	42,1	1.66	70,0
6S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm
6S24BF24 (24-374)	-24	38	-24	G 1 1/2	117,9	4.64	39,8	1.57	31,1	1.22	55,0
6S32BF32 (32-375)	-32	51	-32	G 2	121,0	4.76	43,0	1.69	42,1	1.66	70,0

"G" as part of thread size is ISO designation for parallel thread.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

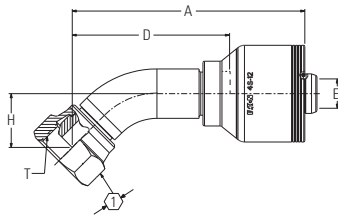
6S Fittings

For use with hoses:

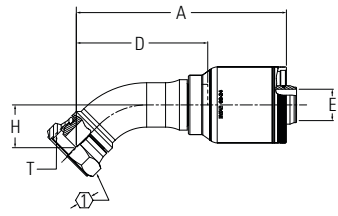
H471-32;
EC600-20;
EC810-20,-24,-32

Female BSPP Swivel (BFA)

60° Cone Seat
45° Elbow



4S



6S

# Part Number	Terminal End	Hose Size DN	Thread Dash size	in	A mm in	D mm in	E Ø mm in	H mm in	1
4S	Dash size	DN	Dash size	in	mm in	mm in	mm in	mm in	mm
4S6BFA6	-6	10	-6	G 3/8	73,8 2.91	48,5 1.91	6,7 0.26	19,0 0.75	22,0
4S8BFA8	-8	12	-8	G 1/2	91,5 3.60	61,8 2.43	9,6 0.38	24,8 0.98	27,0
4S12BFA12 (12-52P)	-12	19	-12	G 3/4	112,3 4.42	75,9 2.99	14,2 0.56	26,0 1.02	32,0
4S16BFA12 (12-56P)	-16	19	-12	G 1	115,8 4.56	79,5 3.13	14,2 0.56	30,0 1.18	41,0
4S16BFA16 (16-56P)	-16	25	-16	G 1	130,3 5.13	90,6 3.57	19,2 0.76	30,0 1.18	41,0
4S20BFA16 (16-60P)	-20	25	-16	G 1 1/4	133,0 5.24	93,4 3.68	19,2 0.76	34,0 1.34	50,0
4S20BFA20 (20-60P)	-20	31	-20	G 1 1/4	149,5 5.89	99,1 3.90	25,2 0.99	34,0 1.34	50,0
4S24BFA24 (24-64P)	-24	38	-24	G 1 1/2	208,3 8.20	130,3 5.13	31,1 1.22	42,4 1.67	55,0
4S32BFA32 (32-65P)	-32	51	-32	G 2	248,4 9.78	170,4 6.71	42,1 1.66	54,1 2.13	70,0
6S	Dash size	DN	Dash size	in	mm in	mm in	mm in	mm in	mm
6S24BFA24 (24-64P)	-24	38	-24	G 1 1/2	208,3 8.20	130,3 5.13	31,1 1.22	42,4 1.67	55,0
6S32BFA32 (32-65P)	-32	51	-32	G 2	248,4 9.78	170,4 6.71	42,1 1.66	54,1 2.13	70,0

"G" as part of thread size is ISO designation for parallel thread.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

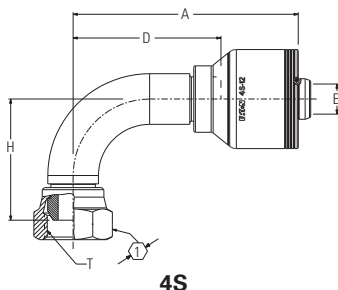
6S Fittings

For use with hoses:

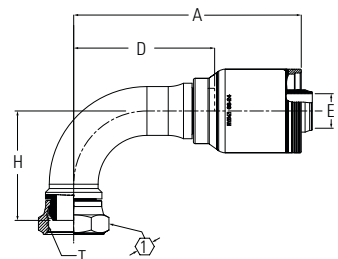
H471-32;
EC600-20;
EC810-20,-24,-32

Female BSPP Swivel (BFB)

60° Cone Seat
90° Elbow



4S



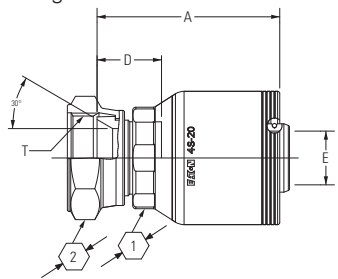
6S

# Part Number	Terminal End	Hose Size DN	Thread Dash size	Thread in	A		D		E Ø		H		1
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	mm
4S6BFB6	-6	10	-6	G 3/8	58,9	2.32	33,6	1.32	6,7	0.26	35,0	1.38	22,0
4S8BFB8	-8	12	-8	G 1/2	63,9	2.52	34,2	1.35	9,6	0.38	37,5	1.48	27,0
4S12BFB12 (12-82P)	-12	19	-12	G 3/4	105,9	4.17	69,6	2.74	14,2	0.56	57,0	2.24	32,0
4S16BFB12 (12-86P)	-16	19	-12	G 1	105,9	4.17	69,6	2.74	14,2	0.56	68,0	2.68	41,0
4S16BFB16 (16-86P)	-16	25	-16	G 1	125,5	4.94	85,8	3.38	19,2	0.76	68,0	2.68	41,0
4S20BFB16 (16-90P)	-20	25	-16	G 1 1/4	125,5	4.94	85,8	3.38	19,2	0.76	79,0	3.11	50,0
4S20BFB20 (20-90P)	-20	31	-20	G 1 1/4	145,0	5.71	95,0	3.74	25,2	0.99	79,0	3.11	50,0
4S24BFB24 (24-94P)	-24	38	-24	G 1 1/2	205,1	8.07	127,0	5.00	31,1	1.22	98,6	3.88	55,0
4S32BFB32 (32-95P)	-32	51	-32	G 2	245,7	9.67	167,6	6.60	42,1	1.66	125,3	4.93	70,0
6S		DN	Dash size	in	mm	in	mm	in	mm	in	mm	in	mm
6S24BFB24 (24-94P)	-24	38	-24	G 1 1/2	205,1	8.07	127,0	5.00	31,1	1.22	98,6	3.88	55,0
6S32BFB32 (32-95P)	-32	51	-32	G 2	245,7	9.67	167,6	6.60	42,1	1.66	125,3	4.93	70,0

"G" as part of thread size is ISO designation for parallel thread.

JIS Female swivel (JF)

30° Flare Seat
Straight



4S

# Part Number	Terminal End	 Hose Size	 Thread	A		D		E Ø		 1	 2
4S	Dash size	DN	Dash size	in	mm	in	mm	in	mm	in	mm
4S6JF6	-6	10	-6	G 3/8	55,2	2.17	33,9	1.33	6,7	0.26	22,0
4S8JF8	-8	12	-8	G 1/2	64,4	2.54	37,1	1.46	9,6	0.38	27,0
4S12JF12 (12-12L)	-12	19	-12	G 3/4	62,4	2.46	26,2	1.03	14,2	0.56	30,0
4S16JF16 (16-16L)	-16	25	-16	G 1	66,6	2.62	26,8	1.06	19,2	0.76	41,0
4S20JF20 (20-20L)	-20	31	-20	G 1 1/4	85,5	3.37	30,2	1.19	25,2	0.99	46,0

"G" as part of thread size is ISO designation for parallel thread.

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

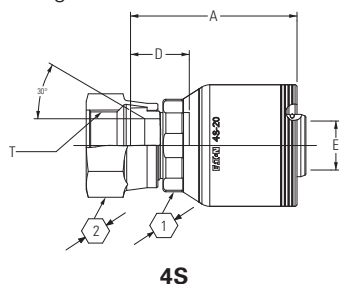
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Komatsu Female Swivel (KF)

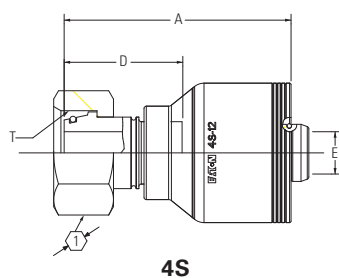
30° Flare Seat
Straight



#	Terminal End	Hose Size	Thread	A		D		E Ø		1	2
Part Number	Dash size	DN Dash size	Metric	mm	in	mm	in	mm	in	mm	in
4S8KF8	-8	12 -8	M22X1.5	67,1	2.64	39,8	1.57	9,6	0.38	27,0	1.06
4S10KF10	-10	16 -10	M24X1.5	72,1	2.84	46,0	1.81	12,4	0.49	30,0	1 3/16
4S12KF12 (12-30K)	-12	19 -12	M30X1.5	62,4	2.46	26,2	1.03	14,2	0.56	30,0	1 3/16
4S16KF16 (16-33K)	-16	25 -16	M33X1.5	66,6	2.62	26,8	1.06	19,2	0.76	41,0	1 5/8
4S20KF20 (20-36K)	-20	31 -20	M36X1.5	85,5	3.37	30,2	1.19	25,2	0.99	46,0	1 13/16

Female Swivel DIN 24° seat (DL)

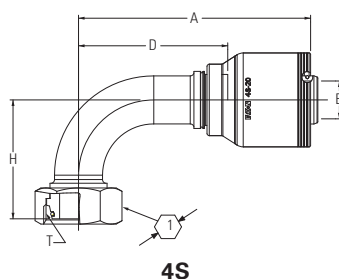
I.Rh DKO (Light)
Straight



#	Hose Size	Thread	A		D		E Ø		1
Part Number	DN Dash size	Metric	mm	in	mm	in	mm	in	mm
4S8DL6	10 -6	M16x1.5	50,5	1.99	25,2	0.99	6,7	0.26	19,0
4S10DL6	10 -6	M18x1.5	51,2	2.01	25,9	1.02	6,7	0.26	22,0
4S12DL8	12 -8	M22x1.5	58,3	2.30	28,6	1.13	9,6	0.38	27,0
4S16DL10	16 -10	M26x1.5	59,2	2.33	29,8	1.17	12,8	0.50	32,0
4S20DL12 (12-22C)	19 -12	M30X2	76,0	2.99	39,7	1.56	14,2	0.56	36,0
4S25DL16 (16-28C)	25 -16	M36X2	79,7	3.14	40,3	1.59	19,2	0.76	41,0
4S32DL20 (20-35C)	31 -20	M45X2	100,5	3.96	45,5	1.79	25,2	0.99	50,0

Female Swivel DIN 24° Seat (DLB)

I.Rh DKO (Light)
90° Elbow



#	Hose Size	Thread	A		D		E Ø		H	1
Part Number	DN Dash size	Metric	mm	in	mm	in	mm	in	mm	in
4S20DLB12 (12-72D)	19 -12	M30X2	106,1	4.18	69,8	2.75	14,2	0.56	50,7	2.00
4S32DLB20 (20-85D)	31 -20	M45X2	154,2	6.07	99,2	3.90	25,2	0.99	79,0	3.11

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

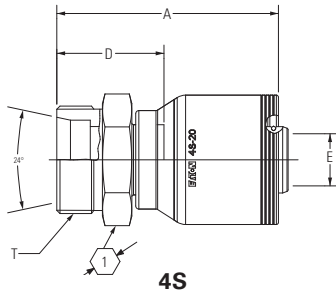
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Male DIN 24° Seat Rigid (EK)

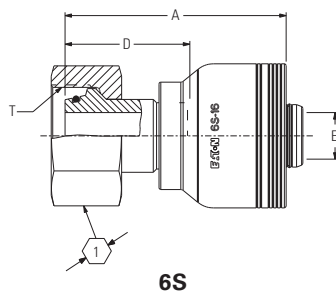
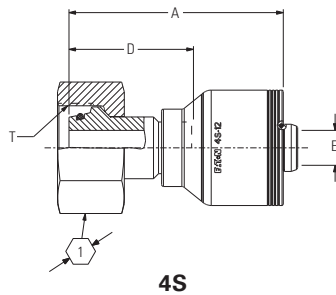
S.Rh. DKO (Heavy)
Straight



#	Hose Size	Thread	A		D		E Ø		1
Part Number	DN	Dash size	Metric	mm	in	mm	in	mm	in
4S	DN	Dash size	Metric	mm	in	mm	in	mm	in
4S6EK6	10	-6	M18X1.5	45,5	1.79	24,2	0.95	6,7	0.26
4S8EK6	10	-6	M20X1.5	50,3	1.98	25,0	0.98	6,7	0.26
4S12EK8	12	-8	M24X1.5	58,0	2.28	28,3	1.11	9,6	0.38
4S16EK10	16	-10	M30X2	62,0	2.44	32,7	1.29	12,8	0.50
4S20EK12 (12-25F)	19	-12	M36X2	78,6	3.09	42,3	1.67	14,2	0.56
4S25EK16 (16-30F)	25	-16	M42X2	83,7	3.30	44,0	1.73	19,2	0.75
4S32EK20 (20-35F)	31	-20	M52X2	106,9	4.21	51,7	2.04	25,2	0.99

Female swivel DIN 24° seat (DS)

s.RH DKO (heavy)
Straight



#	Hose Size	Thread	A		D		E Ø		1
Part Number	DN	Dash size	Metric	mm	in	mm	in	mm	in
4S	DN	Dash size	Metric	mm	in	mm	in	mm	in
4S8DS6	10	-6	M20x1.5	53,8	2.12	28,5	1.12	6,7	0.26
4S10DS6	10	-6	M22x1.5	56,9	2.24	31,6	1.24	6,7	0.26
4S12DS8	12	-8	M24x1.5	62,4	2.46	32,7	1.29	9,6	0.38
4S16DS10	16	-10	M30x2	66,9	2.63	37,5	1.48	12,8	0.50
4S16DS12 (12-70C)	19	-12	M30X2	73,7	2.90	37,4	1.47	14,2	0.56
4S20DS12 (12-75C)	19	-12	M36X2	86,6	3.41	50,3	1.98	14,2	0.56
4S25DS12 (12-80C)	19	-12	M42X2	88,2	3.47	51,9	2.04	14,2	0.56
4S25DS16 (16-80C)	25	-16	M42X2	91,1	3.59	51,4	2.02	19,2	0.76
4S32DS16 (16-88C)	25	-16	M52X2	94,5	3.72	55,3	2.18	19,2	0.76
4S25DS20 (20-80C)	31	-20	M42X2	96,6	3.80	41,6	1.64	22,1	0.87
4S32DS20 (20-88C)	31	-20	M52X2	111,5	4.39	56,5	2.22	25,2	0.99
6S	DN	Dash size	Metric	mm	in	mm	in	mm	in
6S32DS20 (20-88C)	31	-20	M52X2	112,5	4.43	56,5	2.22	25,2	0.99

4S/6S Fitting series

4S Fittings

For use with hoses:

H430-6,-8,-10,-12,-16,-20,-24,-32;
H430R-6,-8,-10,-12,-16,-20,-24,-32;
H464-12,-16,-20,-24,-32;
H471-12,-16,-20,-24; EC600-12,-16;
EC525-12,-16,-20,-24,-32; EC810-12,-16

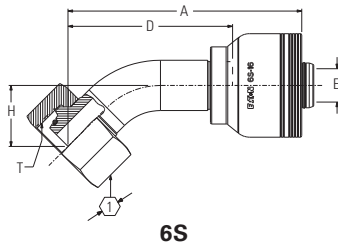
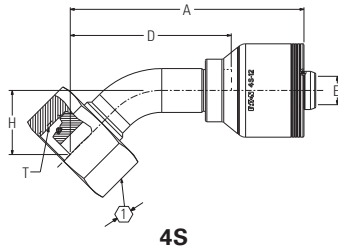
6S Fittings

For use with hoses:

H471-32;
EC600-20;
EC810-20,-24,-32

Female Swivel DIN 24° seat (DSA)

S.Rh DKO (heavy)
45° Elbow

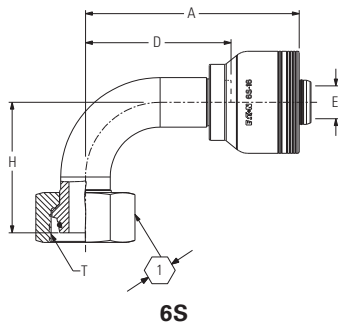
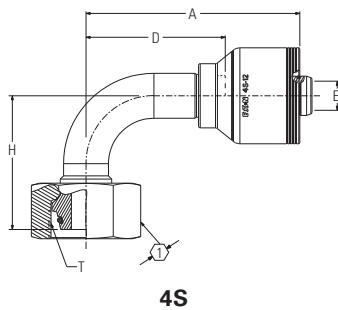


A)

												
Part Number	Hose Size	Thread	A		D		E Ø		H			
4S	DN	Dash size	Metric	mm	in	mm	in	mm	in	mm	in	mm
4S8DSA6	10	-6	M20x1.5	66,3	2.61	41,0	1.61	6,7	0.26	17,2	0.68	24,0
4S12DSA8	12	-8	M24x1.5	86,7	3.41	57,0	2.24	9,6	0.38	24,0	0.94	30,0
4S16DSA10	16	-10	M30x2	87,1	3.43	57,7	2.27	12,0	0.47	24,7	0.97	36,0
4S20DSA12 (12-25E)	19	-12	M36X2	116,7	4.59	80,4	3.17	14,2	0.56	32,0	1.26	46,0
4S25DSA12 (12-30E)	19	-12	M42X2	130,8	5.15	94,4	3.72	14,2	0.56	35,0	1.38	50,0
4S25DSA16 (16-30E)	25	-16	M42X2	134,2	5.28	94,4	3.72	19,2	0.76	35,0	1.38	50,0
4S32DSA16 (16-88C)	25	-16	M52X2	145,1	5.71	105,3	4.15	19,2	0.76	39,0	1.54	60,0
4S32DSA20 (20-88C)	31	-20	M52X2	161,3	6.35	106,3	4.19	25,2	0.99	39,0	1.54	60,0
6S	DN	Dash size	Metric	mm	in	mm	in	mm	in	mm	in	mm
6S32DSA20 (20-88C)	31	-20	M52X2	162,4	6.39	106,3	4.19	25,2	0.99	39,0	1.54	60,0

Female swivel DIN 24° seat (DSB)

S.Rh DKO (heavy)
90° Elbow



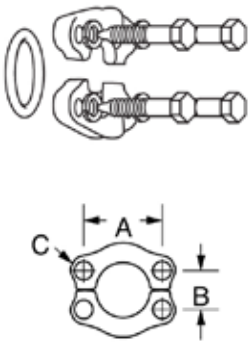
3)

												
Part Number	Hose Size		Thread	A		D		E Ø		H		
4S	DN	Dash size	Metric	mm	in	mm	in	mm	in	mm	in	mm
4S8DSB6	10	-6	M20X1.5	55,9	2.20	34,6	1.36	6,7	0.26	35,3	1.39	24,0
4S10DSB6	10	-6	M22X1.5	59,8	2.35	38,5	1.52	6,7	0.26	42,0	1.65	27,0
4S12DSB8	12	-8	M24X1.5	77,7	3.06	48,0	1.89	9,6	0.38	45,3	1.78	30,0
4S16DSB10	16	-10	M30X2	82,0	3.23	52,6	2.07	12,8	0.50	52,0	2.05	36,0
4S20DSB12 (12-75E)	19	-12	M36X2	103,9	4.09	67,7	2.67	14,2	0.56	65,0	2.56	46,0
4S25DSB12 (12-80E)	19	-12	M42X2	122,7	4.83	86,4	3.40	14,2	0.56	76,0	2.99	50,0
4S25DSB16 (16-80E)	25	-16	M42X2	124,5	4.90	84,8	3.34	19,2	0.76	76,0	2.99	50,0
4S32DSB16 (16-88E)	25	-16	M52X2	136,7	5.38	97,0	3.82	19,2	0.76	89,0	3.50	60,0
4S32DSB20 (20-88E)	31	-20	M52X2	153,0	6.02	98,0	3.86	25,2	0.99	89,0	3.50	60,0
6S	DN	Dash size	Metric	mm	in	mm	in	mm	in	mm	in	mm
6S32DSB20 (20-88E)	31	-20	M52X2	154,2	6.07	98,0	3.86	25,2	0.99	89,0	3.50	60,0

Flange accessories

Split Flange Kits – SAE Standard

Pressure Series
(Ref. SAE Code 61) SAE J518



O-Ring Material

Buna-N 90 Durometer

Temperature Range

-40°F to +250°F
(-40°C to + 121°C)

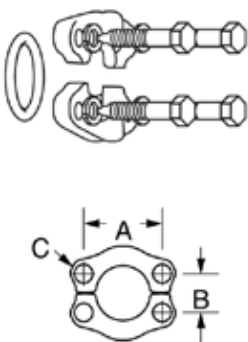
Standard o-ring complies with
SAE specification SAE J515
Type CH

Nominal Flange Size	Part Number Complete Kit	Flange Halves 2 Req'd.	Included in kit						Bolt Torque Range Lb.-In.
			O-Ring	Bolts	Lock Washer	A	B	C	
1/2	SFK-08	8x251	8x252	8x853	8x254	1.50	.69	11/32	175-225
3/4	SFK-12	12x251	12x252	12x853	12x254	1.88	.88	13/32	250-350
1	SFK-16	16x251	16x252	12x853	12x254	2.06	1.03	13/32	325-425
1-1/4	SFK-20	20x251	20x252	20x853	20x254	2.31	1.19	15/32	425-550
1-1/2	SFK-24	24x251	24x252	24x853	24x254	2.75	1.41	17/32	550-700
2	SFK-32	32x251	32x252	24x853	24x254	3.06	1.69	17/32	650-800

Flanges conform to SAE J518.

Split Flange Kits – SAE High Pressure Series

(Ref. SAE Code 62) SAE J518



O-Ring Material

Buna-N 90 Durometer

Temperature Range

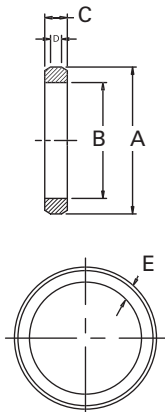
-40°F to +250°F
(-40°C to + 121°C)

Standard o-ring complies with
SAE specifications SAE J515
Type CH

Nominal Flange Size	Part Number Complete Kit	Flange Halves 2 Req'd.	Included in kit						Bolt Torque Range Lb.-In.
			O-Ring	Bolts	Lock Washer	A	B	C	
1/2	SFK62-8	8x262	8x252	8x853	8x254	1.57	.72	5/16	175-225
3/4	SFK62-12	12x262	12x252	12x863	12x254	2.00	.94	13/32	300-400
1	SFK62-16	16x262	16x252	12x863	12x254	2.25	1.09	15/32	500-600
1-1/4	SFK62-20	20x262	20x252	20x863	20x254	2.63	1.25	17/32	750-900
1-1/2	SFK62-24	24x262	24x252	24x863	24x264	3.12	1.44	21/32	1400-1600
2	SFK62-32	32x262	32x252	24x863	24x264	3.81	1.75	25/32	2400-2600

NOTE: Code 62 split flange kits cannot be used with Thick Flange™ Hose Ends. Use existing split flanges.
Flanges conform to SAE J518.

Cat-Flange D-Ring*



Material

Nitrile (Buna-N)

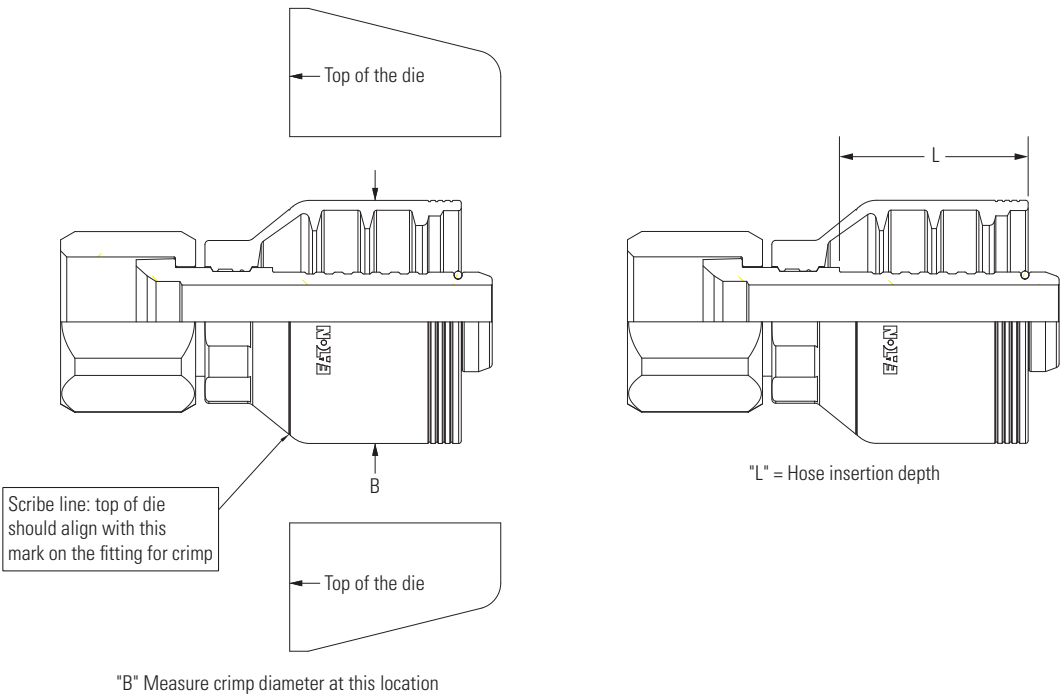
Temperature Range

-40°F to +212°F
(-40°C to +100°C)

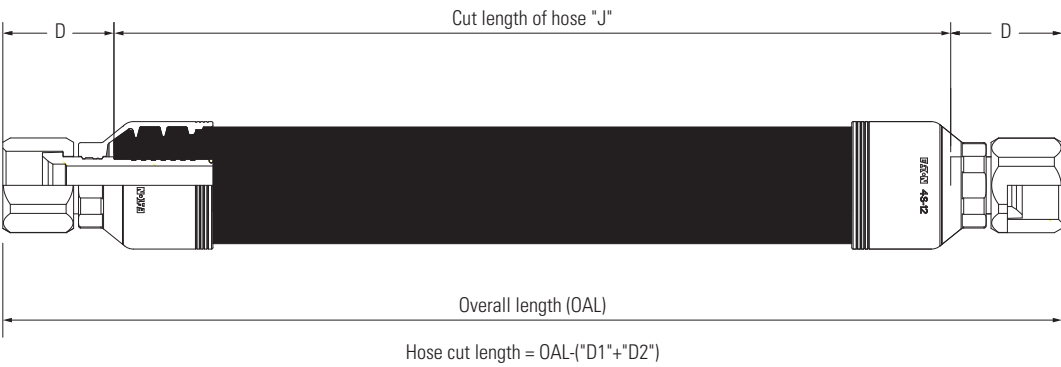
# Part Number	A Ref inch	mm	B Ref inch	mm	C Ref inch	mm	D Ref inch	mm	E Ref inch	mm
FF90319-12	1.27	32,3	1.00	25,4	.20	5,1	.10	2,5	.135	3,4
FF90319-16	1.52	36,6	1.25	31,8	.20	5,1	.10	2,5	.135	3,4
FF90319-20	1.77	45,0	1.50	38,1	.20	5,1	.10	2,5	.135	3,4
FF90319-24	2.03	51,6	1.76	44,7	.20	5,1	.10	2,5	.135	3,4
FF90319-32	2.78	70,6	2.52	64,0	.20	5,1	.10	2,5	.135	3,4

*To be used only with Cat-Flange hose ends.

Fitting for crimp die placement



L Dimension		
4S	mm	inches
4S-06	20,8	0.82
4S-08	28,2	1.11
4S-10	25,4	1.00
4S-12	36,2	1.43
4S-16	39,8	1.57
4S-20	55,1	2.17
4S-24	78,0	3.07
4S-32	78,0	3.07
6S	mm	inches
6S-16	39,8	1.57
6S-20	55,9	2.20
6S-24	78,0	3.07
6S-32	78,0	3.07



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