



DQ series Quick Connectors

Pressure Rating up to 3000 psig (206 bar)

DF series Full Flow Quick Connectors

Pressure Rating up to 6000 psig (413 bar)

Catalog #: DQF-1
Feb. 2006

DQ series Quick Connectors



Color coding:
Valved stem (DQVS) is identified with red sleeve

Features

- Simple to operate: Push to connect, pull body sleeve to disconnect.
- SS316 construction with standard Viton® O-ring.
- Brass construction with standard Buna-N O-ring.
- No tools required to connect and disconnect.
- Compact and light weight.

Coupled max. pressure rating @ 20°C (70° F)

Series	SS316	Brass
	psig (bar)	psig (bar)
DQ A	3000 (206)	2000 (137)
DQ B	1500 (103)	1000 (68.9)
DQ C	750 (51)	500 (34.4)

- Pressure rating 250 psig (17.2 bar) @ 20°C (70° F) while connecting and disconnecting as well as in disconnected.

Coupled max. temperature Rating

DQ materials	O-ring Material	Max. Temp. Rating	Pressure Rating @ Max. Temp.
SS316	*Viton®	204° C (400°F)	250 psig (17.2 bar)
Brass	Buna-N	121° C (250°F)	250 psig (17.2 bar)

Operation:

- Connecting: Align stem with body. Push stem into body until it clicks.
- Disconnecting: Pull body sleeve toward stem
- Same series DQ body and DQ stem will fit together. Example: Any DQBA will fit any DQSA or DQVSA stem.
- Non-valve stem; DQSA, DQSB and DQSC will remain open while disconnected.

Spillage / Air Inclusion

- Spillage is the amount of system fluid that escapes while a quick connector is disconnected.
- Air inclusion is the amount of air that comes in while a quick connector is connected.

Series	Spillage	Air Inclusion
DQ A	0.3 cm ³	0.3 cm ³
DQ B	1.0 cm ³	1.0 cm ³
DQ C	3.0 cm ³	3.0 cm ³

Note: Applicable *Double Valve (DV) connection.

Maximum Flow Rate Water @ 20°C (68°F)

Series	U.S gal/min.	L/min.
DQ A	4.0	15
DQ B	6.0	22
DQ C	10	37

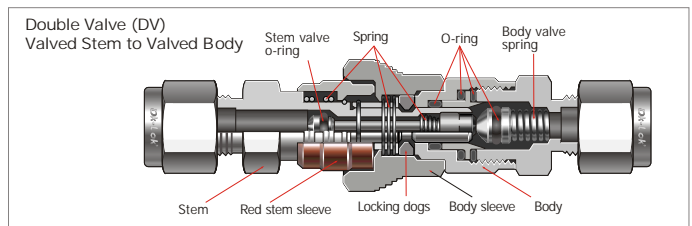
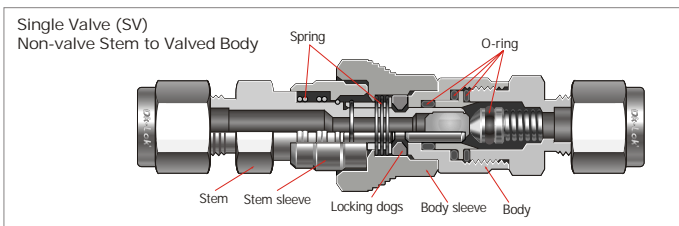
Materials of Construction

Component	Materials	
	SS316	Brass
Body, Stem	SS316	ASTM B16
Sleeve, Spring, Locking dogs	SS316	SS316
Standard O-ring	*Viton®	Buna-N
Lubricant	Silicon-based and PTFE-based lubricants	

* Viton: TM Dupont

Cleaning and Packaging

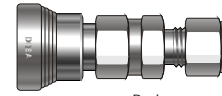
Every connector is cleaned, and packed in a plastic sealing bag to keep them from dust, and then boxed for protection from damage during transportation and storage.



D-Pro® Quick Connectors



Stem



Body

Basic Ordering Number and Dimensions

Series	End Connection	STEM Ordering Number		Cv		Body Ordering Number	STEM Overall Length				Body Overall Length	
		Non valve	Valved	DQS	DQVS		Non valve		Valved		mm	inch
							mm	inch	mm	inch		
DQ A	1/8 inch DK-LOK	DQSA-D-2T-	DQVSA-D-2T-	0.1	0.1	DQBA-D-2T-	59.0	2.32	70.4	2.77	57.5	2.26
	1/4 inch DK-LOK	DQSA-D-4T-	DQVSA-D-4T-	0.3	0.2	DQBA-D-4T-	59.9	2.36	61.5	2.42	58.4	2.30
	6 mm DK-LOK	DQSA-D-6M-	DQVSA-D-6M-	0.3	0.2	DQBA-D-6M-	59.9	2.36	61.5	2.42	58.4	2.30
	8 mm DK-LOK	DQSA-D-8M-	DQVSA-D-8M-	0.3	0.2	DQBA-D-8M-	63.8	2.51	65.4	2.57	62.3	2.45
	1/8 inch Male NPT	DQSA-M-2N-	DQVSA-M-2N-	0.3	0.2	DQBA-M-2N-	52.5	2.07	54.1	2.13	51.0	2.01
	1/4 inch Male NPT	DQSA-M-4N-	DQVSA-M-4N-	0.3	0.2	DQBA-M-4N-	56.3	2.22	57.9	2.28	54.9	2.16
	1/8 inch Male BSPT	DQSA-M-2R-	DQVSA-M-2R-	0.3	0.2	DQBA-M-2R-	52.5	2.07	54.1	2.13	51.0	2.01
	1/4 inch Male BSPT	DQSA-M-4R-	DQVSA-M-4R-	0.3	0.2	DQBA-M-4R-	56.3	2.22	57.9	2.28	54.9	2.16
	1/8 inch Male BSPP	DQSA-M-2G-	DQVSA-M-2G-	0.3	0.2	DQBA-M-2G-	51.0	2.01	52.6	2.07	51.0	2.01
	1/4 inch Male BSPP	DQSA-M-4G-	DQVSA-M-4G-	0.3	0.2	DQBA-M-4G-	57.4	2.26	58.9	2.32	61.5	2.42
	1/8 inch Female NPT	DQSA-F-2N-	DQVSA-F-2N-	0.2	0.2	DQBA-F-2N-	51.0	2.01	52.6	2.07	54.9	2.16
	1/4 inch Female NPT	DQSA-F-4N-	DQVSA-F-4N-	0.3	0.2	DQBA-F-4N-	57.4	2.26	58.9	2.32	61.5	2.42
	1/8 inch Female BSPP	DQSA-F-2G-	DQVSA-F-2G-	0.2	0.2	DQBA-F-2G-	51.0	2.01	52.6	2.07	54.9	2.16
	1/4 inch Female BSPP	DQSA-F-4G-	DQVSA-F-4G-	0.3	0.2	DQBA-F-4G-	57.4	2.26	58.9	2.32	61.5	2.42
	1/4 inch Female BSPT	DQSA-F-4R-	DQVSA-F-4R-	0.3	0.2	DQBA-F-4R-	57.4	2.26	58.9	2.32	61.5	2.42
	1/8 inch AN tube 37°	DQSA-AN-2-	DQVSA-AN-2-	0.1	0.1	DQBA-AN-2-	52.5	2.07	67.2	2.65	54.9	2.16
	1/4 inch AN tube 37°	DQSA-AN-4-	DQVSA-AN-4-	0.3	0.2	DQBA-AN-4-	56.3	2.22	57.9	2.28	54.9	2.16
	1/4 inch DK-LOK	DQSA-BH*-D-4T-	DQVSA-BH-D-4T-	0.3	0.2	DQBA-BH*-D-4T-	69.6	2.74	71.1	2.8	67.8	2.67
DQ B	3/8 inch DK-LOK	DQSB-D-6T-	DQVSB-D-6T-	0.9	0.6	DQBB-D-6T-	64.0	2.52	67.2	2.64	65.5	2.58
	10 mm DK-LOK	DQSB-D-10M-	DQVSB-D-10M-	0.9	0.6	DQBB-D-10M-	67.3	2.65	70.5	2.77	68.1	2.68
	1/4 inch Male NPT	DQSB-M-4N-	DQVSB-M-4N-	0.9	0.6	DQBB-M-4N-	58.9	2.32	62.1	2.44	60.5	2.38
	3/8 inch Male NPT	DQSB-M-6N-	DQVSB-M-6N-	0.8	0.5	DQBB-M-6N-	59.7	2.35	62.9	2.47	60.5	2.38
	1/4 inch Male BSPT	DQSB-M-4R-	DQVSB-M-4R-	0.9	0.5	DQBB-M-4R-	58.9	2.32	62.1	2.44	60.5	2.38
	3/8 inch Male BSPT	DQSB-M-6R-	DQVSB-M-6R-	0.8	0.5	DQBB-M-6R-	59.7	2.35	62.9	2.47	60.5	2.38
	1/4 inch Male BSPP	DQSB-M-4G-	DQVSB-M-4G-	0.9	0.5	DQBB-M-4G-	59.7	2.35	62.9	2.47	60.5	2.38
	3/8 inch Male BSPP	DQSB-M-6G-	DQVSB-M-6G-	0.8	0.5	DQBB-M-6G-	59.7	2.35	62.9	2.47	65.3	2.57
	1/4 inch Female NPT	DQSB-F-4N-	DQVSB-F-4N-	0.9	0.5	DQBB-F-4N-	59.7	2.35	62.9	2.47	64.5	2.54
	3/8 inch Female NPT	DQSB-F-6N-	DQVSB-F-6N-	0.8	0.5	DQBB-F-6N-	59.7	2.35	62.9	2.47	65.3	2.57
	1/4 inch Female BSPP	DQSB-F-4G-	DQVSB-F-4G-	0.9	0.5	DQBB-F-4G-	59.7	2.35	62.9	2.47	64.5	2.54
	3/8 inch Female BSPP	DQSB-F-6G-	DQVSB-F-6G-	0.8	0.5	DQBB-F-6G-	59.7	2.35	62.9	2.47	65.3	2.57
	1/4 inch Female BSPT	DQSB-F-4R-	DQVSB-F-4R-	0.9	0.5	DQBB-F-4R-	59.7	2.35	62.9	2.47	64.5	2.54
	3/8 inch Female BSPT	DQSB-F-6R-	DQVSB-F-6R-	0.8	0.5	DQBB-F-6R-	59.7	2.35	62.9	2.47	65.3	2.57
	3/8 inch AN tube 37°	DQSB-AN-6-	DQVSB-AN-6-	0.9	0.6	DQBB-AN-6-	58.9	2.32	62.1	2.44	60.5	2.38
	3/8 inch DK-LOK	DQSB-BH-D-6T-	DQVSB-BH-D-6T-	1.1	0.5	DQBB-BH*-D-6T-	74.2	2.92	77.3	3.04	75.7	2.98
DQ C	1/2 inch DK-LOK	DQSC-D-8T-	DQVSC-D-8T-	2.2	1.5	DQBC-D-8T-	75.2	2.96	80.2	3.16	78.5	3.09
	12 mm DK-LOK	DQSC-D-12M-	DQVSC-D-12M-	2.2	1.5	DQBC-D-12M-	75.2	2.96	80.2	3.16	78.5	3.09
	1/2 inch Male NPT	DQSC-M-8N-	DQVSC-M-8N-	2	1.3	DQBC-M-8N-	72.3	2.84	77.2	3.04	75.5	2.97
	1/2 inch Male BSPT	DQSC-M-8R-	DQVSC-M-8R-	2	1.3	DQBC-M-8R-	72.3	2.84	77.2	3.04	75.5	2.97
	1/2 inch Male BSPP	DQSC-M-8G-	DQVSC-M-8G-	2	1.3	DQBC-M-8G-	71.7	2.82	76.7	3.02	69.9	2.75
	1/2 inch Female NPT	DQSC-F-8N-	DQVSC-F-8N-	2	1.3	DQBC-F-8N-	71.7	2.82	76.7	3.02	81.9	3.22
	1/2 inch Female BSPP	DQSC-F-8G-	DQVSC-F-8G-	2	1.3	DQBC-F-8G-	71.7	2.82	76.7	3.02	81.9	3.22
	1/2 inch Female BSPT	DQSC-F-8R-	DQVSC-F-8R-	2	1.3	DQBC-F-8R-	71.7	2.82	76.7	3.02	81.9	3.22
	1/2 inch AN tube 37°	DQSC-AN-8-	DQVSC-AN-8-	2.2	1.5	DQBC-AN-8-	68.9	2.71	73.9	2.91	75.5	2.97
	1/2 inch DK-LOK	DQSC-BH-D-8T-	DQVSC-BH-D-8T-	2.2	1.5	DQBC-BH*-D-8T-	87.2	3.43	92.1	3.63	90.4	3.56

BH: Bulkhead

Bulkhead Panel Mount Dimensions

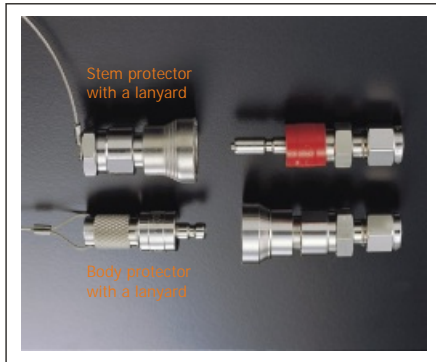
Series	Min. Panel Hole Drill		Max. Panel Thickness	
DQ A	0.47 inch	11.9 mm	0.25 inch	6.4 mm
DQ B	0.59 inch	15.1 mm	0.27 inch	6.9 mm
DQ C	0.78 inch	19.8 mm	0.26 inch	6.6 mm

How to Order

Add "S" for 316 stainless steel or "B" for brass as a suffix to the Basic Ordering Number. Examples: DQSA-D-4TS, DOBA-D-4T-B.

D-Pro® Quick Connectors

DQ Protectors: Body and Stem protector are available to protect body and stem from damage and contamination while they are disconnected.



Protector ordering number

Stem Protector Ordering Number	Body Protector Ordering Number
DQSA-CP-	DOBA-PG-
DQSB-CP-	DQBB-PG-
DQSC-CP-	DQBC-PG-

* Stem Protector is applicable to both non-valve stem and valved stem.

Note: Protectors are not pressure containing devices.

To order pressure containing protector, add "P" as a suffix to a protector ordering number.

Examples: DQSA-CP-P, DOBA-PG-P.

To complete ordering number, add a material designator as a suffix to the protector ordering number.

-"S" for SS316

-"B" for Brass Examples: DQSA-CP-S, DOBA-PG-B.

Materials of Construction

Protector: Stainless steel or Brass

Lanyard: Stainless steel

Lanyard clamp: Stainless steel



DQ color coded "Keyed" quick connectors

Features

- DQ Keyed quick connectors prevent intermixing of different keys mechanically as well as allow visual identification by color coding.
- Eight (8) different keys on each DQ series are available with its own Key number.
- DQ keys are useful to control multi-fluid or multi-pressure systems.

DQ Key Operation

- Select stem and body of the same key in the same DQ series.
- Connecting: Align stem with body. Push stem into body until it clicks.
- Disconnecting: Pull body sleeve toward stem.

DQ Key Ordering Numbers and Sleeve Outside Diameter

Key Number	Key Color	DQ A				DQ B				DQ C			
		Body Sleeve		Stem Sleeve		Body Sleeve		Stem Sleeve		Body Sleeve		Stem Sleeve	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
K1	Black	24.5	0.96	20.9	0.82	28.7	1.13	25.1	0.99	32.0	1.26	27.9	1.10
K2	Orange	25.0	0.99	21.6	0.85	29.5	1.16	25.8	1.02	32.8	1.29	28.9	1.14
K3	Green	26.0	1.02	22.4	0.88	30.2	1.19	26.6	1.05	33.6	1.32	29.7	1.17
K4	Yellow	26.8	1.05	23.2	0.91	31.0	1.22	27.4	1.08	34.3	1.35	30.4	1.20
K5	Blue	27.5	1.08	23.9	0.94	31.5	1.24	28.1	1.11	35.1	1.38	31.2	1.23
K6	White	28.3	1.11	24.7	0.97	32.5	1.28	28.9	1.14	35.8	1.41	32.0	1.26
K7	Purple	29.1	1.14	25.4	1.00	33.3	1.31	29.7	1.17	36.6	1.44	32.7	1.29
K8	Brown	29.8	1.17	26.2	1.03	34.0	1.34	30.4	1.20	37.4	1.47	33.5	1.32
Standard DQ Body Sleeve Dia.		23.1	0.91			26.2	1.03			30.7	1.21		

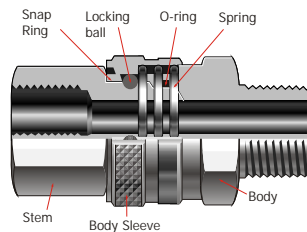
DQ Key ordering information

Add DQ Key number as a suffix to the DQ series ordering number. Examples: DQSB-D-6T-K1-S.



DF series Full Flow Quick Connectors

Pressure Rating up to 6000 psig (413 bar)



Features

- Applicable to maximum flow
- No tools required to connect & disconnect
- Lowest pressure drop
- Bi-directional flow

Max. Pressure @ 20°C (70° F)

DF Series	SS316	Brass
	psig (bar)	Psig (bar)
DFA	6000 (413)	4000 (275)
DFB		3000 (206)
DFC	4000 (275)	2000 (137)
DFD		

Materials of Construction

Component	Materials	
	SS316	Brass
Body, Stem,	SS316	ASTM B16
Sleeve, Snap ring	SS316	SS316
Spring, Locking Ball	SS304	SS304
O-ring	Viton®	Buna-N
Lubricant	Silicon-based and PTFE-based lubricants	

Wetted parts and lubrication are listed in blue.

Max. Temperature Rating

DF materials	O-ring Material	Max. Temp. Rating	Pressure Rating @ Max. Temp.
SS316	Viton®	204°C (400°F)	100 psig (6.8 bar)
Brass	Buna-N	121°C (250°F)	100 psig (6.8 bar)

D-Pro® Quick Connectors

DF series Operation

Connecting

1. Align stem with body.
2. Pull the body sleeve back.
3. Insert stem into body until it bottoms.
4. Return body sleeve to its original position.

Disconnecting

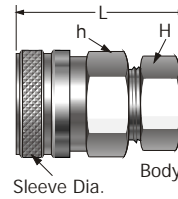
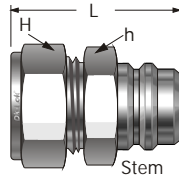
1. Pull the body sleeve back completely.
2. Remove stem from body.

Caution: Do not disconnect under pressure.

* Same size DF body and DF stem will fit together.
Example: DFBA body will fit any DFSA stem.

Cleaning and Packaging

Every connector is cleaned, and packed in a plastic sealing bag to keep them from dust, and then boxed for protection from damage during transportation and storage.



DF series Ordering Information and Dimensions

Stems									Bodies									
Basic Ordering Number	End Connection	Cv	Min. Orifice		L length		h Hex.	H Hex.	Basic Ordering Number	End Connection	Min. Orifice		Sleeve Dia.		L length		h Hex.	H Hex.
			mm	inch	mm	inch					mm	inch	mm	inch	mm	inch		
DFSA-	D-4T- 1/4" DK-LOK	2.6	4.6	0.18	45.0	1.77	9/16	9/16	DFBA-	D-4T- 1/4" DK-LOK	4.8	0.19	22.1	0.87	45.7	1.80	11/16	9/16
	D-6T- 3/8" DK-LOK	2.8	7.1	0.28	45.0	1.77	11/16	11/16		D-6T- 3/8" DK-LOK	7.1	0.28	22.1	0.87	46.7	1.81	11/16	11/16
	D-6M- 6 mm DK-LOK	2.6	4.8	0.19	45.0	1.77	9/16	9/16		D-6M- 6 mm DK-LOK	4.8	0.19	22.1	0.87	45.7	1.80	11/16	9/16
	M-4N- 1/4" Male NPT	2.2	7.6	0.30	40.4	1.59	9/16			M-4N- 1/4" Male NPT	6.4	0.25	22.1	0.87	39.9	1.57	11/16	
	M-6N- 3/8" Male NPT	1.9	12.4	0.49	40.4	1.59	11/16			M-6N- 3/8" Male NPT	9.4	0.37	22.1	0.87	39.9	1.57	11/16	
	M-4R- 1/4" Male BSPT	2.2	6.1	0.24	40.4	1.59	9/16			M-4R- 1/4" Male BSPT	4.8	0.19	22.1	0.87	39.9	1.57	11/16	
	M-4G- 1/4" Male BSPP	2.8	6.1	0.24	40.6	1.60	3/4			M-4G- 1/4" Male BSPP	5.8	0.23	22.1	0.87	45.7	1.80	3/4	
	F-4N- 1/4" Female NPT	2.2	7.6	0.30	40.6	1.60	3/4			F-4N- 1/4" Female NPT	9.7	0.38	22.1	0.87	38.1	1.50	3/4	
	F-6N- 3/8" Female NPT	1.8	12.4	0.49	42.4	1.67	7/8			F-6N- 3/8" Female NPT	9.7	0.38	22.1	0.87	41.4	1.63	7/8	
	F-4G- 1/4" Female BSPP	2.2	6.1	0.24	40.6	1.60	3/4			F-4G- 1/4" Female BSPP	9.7	0.38	22.1	0.87	38.1	1.50	3/4	
F-4R- 1/4" Female BSPT	2.2	6.1	0.24	40.6	1.60	3/4		F-4R- 1/4" Female BSPT	9.7	0.38	22.1	0.87	38.1	1.50	3/4			
DFSB-	D-6T- 3/8" DK-LOK	2.9	7.1	0.28	47.8	1.88	7/8	11/16	DFBB-	D-6T- 3/8" DK-LOK	7.1	0.28	33.0	1.30	55.1	2.17	1-1/16	11/16
	D-8T- 1/2" DK-LOK	13.0	10.2	0.40	50.5	1.99	7/8	7/8		D-8T- 1/2" DK-LOK	11.9	0.47	33.0	1.30	56.6	2.23	1-1/16	7/8
	M-6N- 3/8" Male NPT	5.8	10.4	0.41	40.4	1.59	7/8			M-6N- 3/8" Male NPT	10.4	0.41	33.0	1.30	46.5	1.83	1-1/16	
	M-8N- 1/2" Male NPT	14.0	15.7	0.62	46.7	1.84	7/8			M-8N- 1/2" Male NPT	12.7	0.50	33.0	1.30	52.8	2.08	1-1/16	
	M-8R- 1/2" Male BSPT	13.0	12.7	0.50	46.7	1.84	7/8			M-8R- 1/2" Male BSPT	12.7	0.50	33.0	1.30	52.8	2.08	1-1/16	
	M-8G- 1/2" Male BSPP	13.0	12.7	0.50	46.2	1.82	1-1/16			M-8G- 1/2" Male BSPP	11.9	0.47	33.0	1.30	52.8	2.08	1-1/16	
	F-6N- 3/8" Female NPT	11.8	12.4	0.49	40.4	1.59	1-1/16			F-6N- 3/8" Female NPT	15.0	0.59	33.0	1.30	43.9	1.73	1-1/16	
	F-8N- 1/2" Female NPT	14.0	15.7	0.62	46.2	1.82	1-1/16			F-8N- 1/2" Female NPT	16.0	0.63	33.0	1.30	43.9	1.73	1-1/16	
	F-8G- 1/2" Female BSPP	13.0	12.7	0.50	46.2	1.82	1-1/16			F-8G- 1/2" Female BSPP	16.0	0.63	33.0	1.30	43.9	1.73	1-1/16	
	F-8R- 1/2" Female BSPT	13.0	12.7	0.50	46.2	1.82	1-1/16			F-8R- 1/2" Female BSPT	16.0	0.63	33.0	1.30	43.9	1.73	1-1/16	
DFSC-	D-12T- 3/4" DK-LOK	26.0	18.3	0.72	54.6	2.15	1-1/8	1-1/8	DFBC-	D-12T- 3/4" DK-LOK	18.3	0.72	42.2	1.66	62.2	2.45	1-1/2	1-1/8
	M-12N- 3/4" Male NPT	32.0	20.8	0.82	51.6	2.03	1-1/16			M-12N- 3/4" Male NPT	18.3	0.72	42.2	1.66	59.2	2.33	1-1/2	
	F-12N- 3/4" Female NPT	32.0	20.8	0.82	52.8	2.08	1-5/16			F-12N- 3/4" Female NPT	22.4	0.88	42.2	1.66	48.0	1.89	1-1/2	
DFSD-	D-16T- 1" DK-LOK	45.0	22.4	0.88	62.2	2.45	1-3/8	1-1/2	DFBD-	D-16T- 1" DK-LOK	22.4	0.88	47.7	1.88	69.9	2.75	1-11/16	1-1/2
	M-16N- 1" Male NPT	39.0	26.7	1.05	59.7	2.35	1-3/8			M-16N- 1" Male NPT	22.4	0.88	47.7	1.88	67.3	2.65	1-11/16	
	M-16R- 1" Male BSPT	39.0	22.4	0.88	59.7	2.35	1-3/8			M-16R- 1" Male BSPT	22.4	0.88	47.7	1.88	67.3	2.65	1-11/16	
	F-16N- 1" Female NPT	39.0	26.7	1.05	63.2	2.49	1-5/8			F-16N- 1" Female NPT	26.9	1.06	47.7	1.88	53.8	2.12	1-11/16	

How to Order: Add "S" for 316 stainless steel as a suffix to the Basic Ordering Number. Example: DFSA-D-4T-S

DF series Protector: Body and Stem protector are available to protect body and stem from damage and contamination while they are disconnected.

Ordering # of Stem protector	Ordering # of Body protector
DFSA-PG-	DFBA-CP-
DFSB-PG-	DFBB-CP-
DFSC-PG-	DFBC-CP-
DFSD-PG-	DFBD-CP-

To complete the ordering number, add a material designator as a suffix to the protector ordering number.

- "S" for SS316





Examples: DFSA-PG-S, DFBA-CP-S.

Safety Pin Option

A safety pin on body hex with a matching groove on the body sleeve prevents accidental disconnection.

To disconnect, rotate body sleeve for the pin to fit into the groove and pull the body sleeve back.

To order add "P" as a suffix to the basic ordering number. Example: DFBC-D-12T-P-S

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