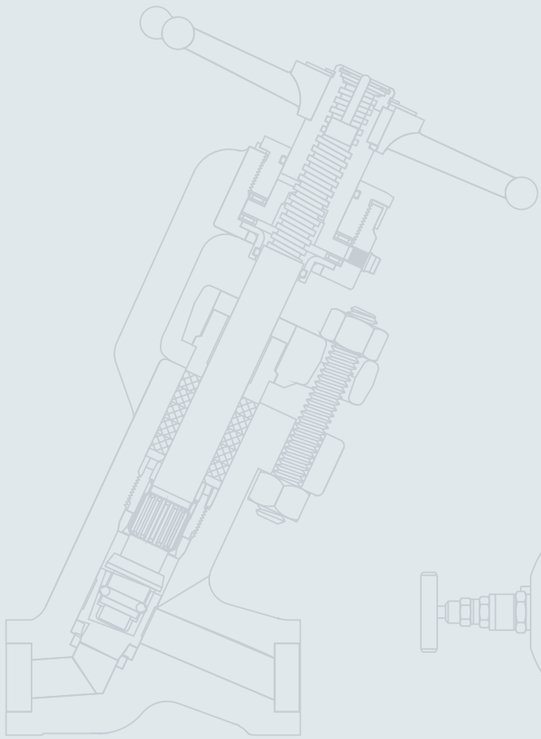
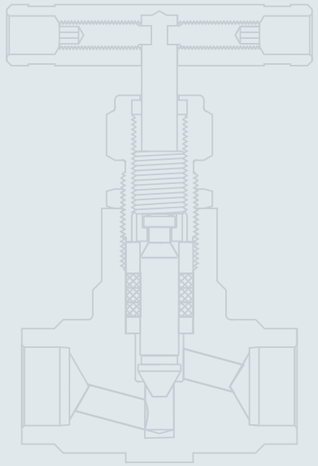
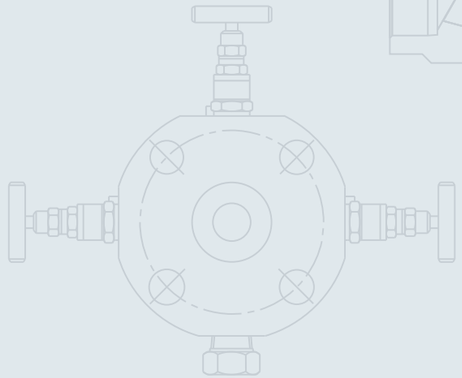
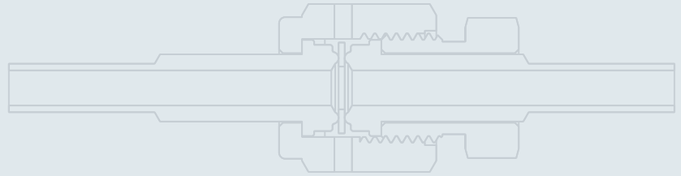
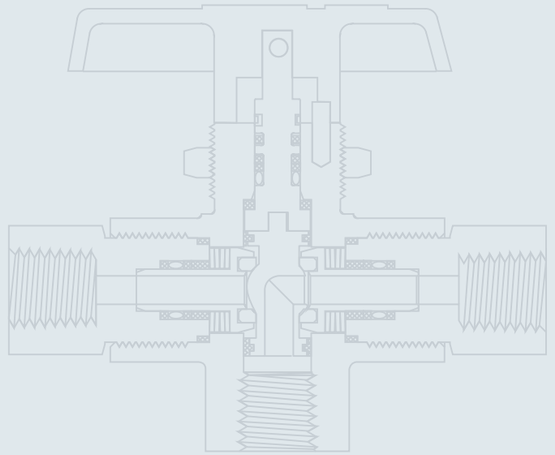


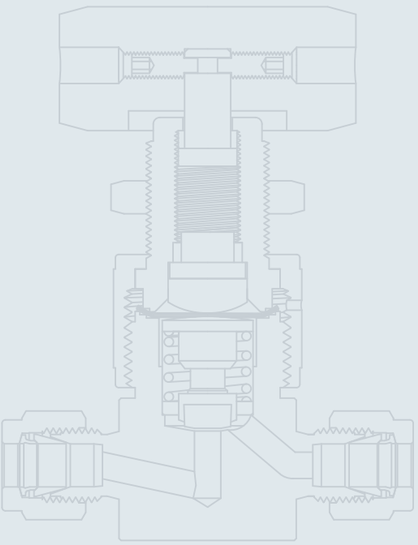




FITOK MIDDLE CATALOGUE







FITOK

Valves and Fittings

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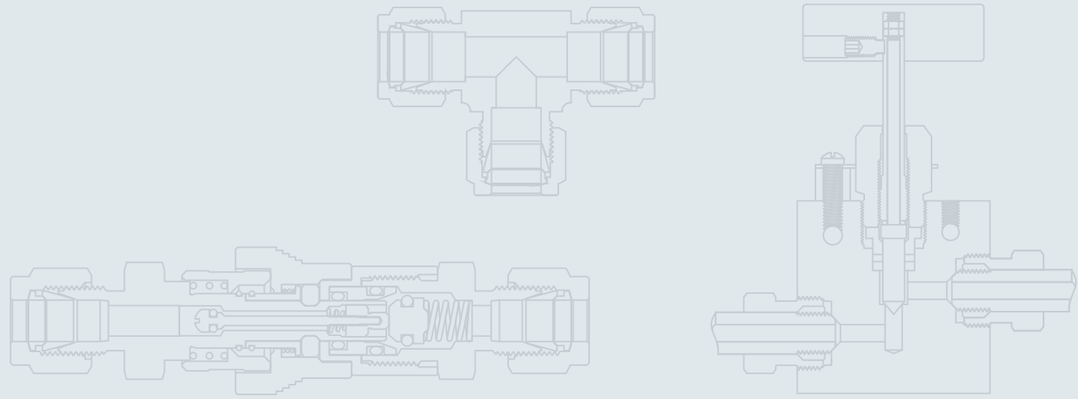

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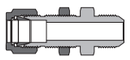
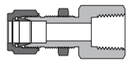
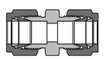
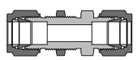
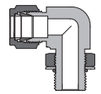
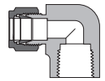
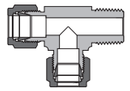
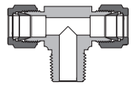
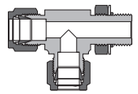
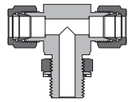
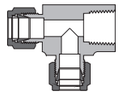
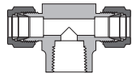
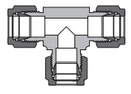
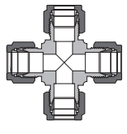
FITOK

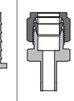
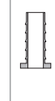
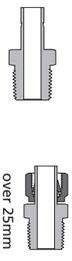
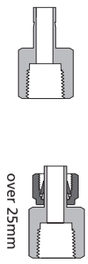
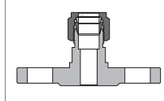
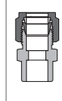
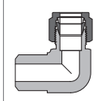
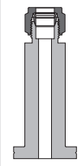
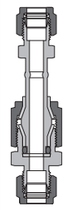
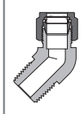
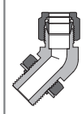
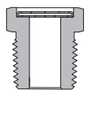
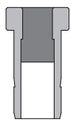
Fittings

6 Series Tube Fittings

- Sizes range from 1/16" to 2" and 2 mm to 50 mm.
- Diverse materials and configurations are available.
- Precision machined components ensure perfect deformation of the ferrules and tubing.
- Hardened threads and smoothed surface finishes extend fitting life and prevent sticking of the matching threads.
- Female nut threads are silver-plated to minimize the friction with body threads.
- Radius junction design within elbows provides smooth flow path.
- Every fitting is stamped with size, material, and heat code.
- Fittings are easy to disconnect and retighten.

Configuration	Fitting Type	Example
	Male Connector	SS-CM-ML12-NS8
	Bulkhead Male Connector	S4-BCM-FL8-AN8
	Thermocouple Connector	S1-TCM-FL8-NS8
	Female Connector	B-CF-FL8-RG6
	Bulkhead Female Connector	CS-BCF-ML12-NS8
	Union	M-U-FL12
	Bulkhead Union	HC-BU-ML10
	Male Elbow	T-LM-FL8-NS8

Configuration	Fitting Type	Example
	Positionable Male Elbow	TI-LP-ML14-ST14
	Female Elbow	PA-LF-FL8-NS8
	Union Elbow	INC-LU-FL8
	Male Run Tee	A20-TMT-FL8-NS8
	Male Branch Tee	D5-TTM-ML16-NS8
	Positionable Male Run Tee	AL-TPT-FL8-ST14
	Positionable Male Branch Tee	A65-TTP-FL8-PP8
	Female Run Tee	SS-TFT-FL8-NS8
	Female Branch Tee	SS-TTF-ML12-NS8
	Union Tee	SS-TTT-FL6
	Union Cross	SS-C-FL8
	Cap	SS-TC-FL8
	Plug	SS-TP-ML12
	Nut+Ferrules	SS-NFR-FL8

Configuration	Fitting Type	Example
	Reducer	SS-R-FL8-MT12
	Insert for Soft Plastic Tubing	SS-IN-8-6
over 25mm	Port Connector	SS-P-FL4
 over 25mm	Male Adapter	SS-AM-FT8-RT8
 over 25mm	Female Adapter	SS-AF-MT12-NS8
	Flange Adapter	SS-FA-FL6-F8-300
	Weld Connector	SS-CW-FL8-TS8
	Weld Elbow	SS-LW-FL8-PB8
	Lapped Flange Connector	SS-LFC-FL6A
	Calibration Fitting	SS-FC-FL4-1428
	Dielectric Fitting	SS-DF-FL6
	Nut-Ferrule Set	SS-NFS-FL6
	Ferrule Set	SS-FRS-FL6
	45° Male Elbow	SS-VM-FL5-NS2
	45° Adjustable Male Elbow	SS-VP-FL16-ST21
	Vent Protector	SS-VPF-NS12
	Fusible Fittings	SS-GFTA4-160

Part Number Description

SS – CM – ML12 – NS8 – □ – □ – S – □

Material

SS	316 SS
S4	304 SS
S1	321 SS
A20	Alloy 20
M	Alloy 400
INC	Alloy 600
A65	Alloy 625
HC	Alloy C-276
AL	Aluminum
B	Brass
CS	Carbon Steel
D5	Duplex 2205
D7	Duplex 2507
T	PTFE
TI	Titanium
PA	Nylon
A	PFA
904L	904L SS

Fitting Type

CM	Male Connector
BCM	Bulkhead Male Connector
TCM	Thermocouple Connector
CF	Female Connector
BCF	Bulkhead Female Connector
U	Union
BU	Bulkhead Union
LM	Male Elbow
VM	45° Male Elbow
VP	45° Adjustable Male Elbow
LP	Positionable Male Elbow
LF	Female Elbow
LU	Union Elbow
TMT	Male Run Tee
TTM	Male Branch Tee
TPT	Positionable Male Run Tee
TTP	Positionable Male Branch Tee
TFT	Female Run Tee
TTF	Female Branch Tee
TTT	Union Tee
C	Union Cross
TC	Cap
TP	Plug
R	Reducer
P	Port Connector
AM	Male Adapter
AF	Female Adapter
CW	Weld Connector
LW	Weld Elbow
DF	Dielectric Fitting

P1 Type

ML	Metric Ferrule
FL	Fractional Ferrule
MT	Metric Tube
FT	Fractional Tube

P1 Size

1	1/16"
2	1/8" or 2 mm
3	3/16" or 3 mm
4	1/4" or 4 mm
5	5/16"
6	3/8" or 6 mm
8	1/2" or 8 mm
10	5/8" or 10 mm
12	3/4" or 12 mm
14	7/8" or 14 mm
15	15 mm
16	1" or 16 mm
18	1 1/8" or 18 mm
20	1 1/4" or 20 mm
22	22 mm
24	1 1/2" or 24 mm
25	25 mm
28	28 mm
30	30 mm
32	2" or 32 mm
38	38 mm
50	50 mm

P2 Type

Except the same as the P1, the other type follows:

NS	NPT Thread
ONS	O-ring with NPT Thread
RT	ISO Tapered Thread
RS	ISO Parallel Thread
RP	ISO Parallel Thread
RG	ISO Parallel Thread (Gauge)
RJ	ISO Parallel Thread (Japanese Gauge)
PP	Positionable, ISO Parallel Thread
ST	SAE/MS Straight Thread
OST	O-ring with SAE/MS Straight Thread
AN	37° Flare
MS	Metric Thread
TS	Fractional Tube Socket Weld
PB	Pipe Butt Weld

P2 Size

Except the same as the P1, the other size follows:

5	M5 x 0.8 or 5/16-24
6	M6 x 1 or 3/8-24
7	7/16-20
8	M8 x 1 or 1/2-20
9	9/16-18
10	M10 x 1
12	M12 x 1.5 or 3/4-16
14	M14 x 1.5 or 7/8-14
16	M16 x 1.5
17	1 1/16-12
18	M18 x 1.5
19	1 3/16-12
20	M20 x 1.5
21	1 5/16-12
22	M22 x 1.5
24	M24 x 1.5
26	1 5/8-12
27	M27 x 2
30	1 7/8-12

P3 and P4

Specify in the same way as the P2

Special Appication

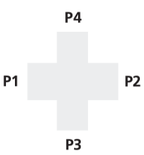
	NO
S	NACE MR0175

Classification for Nuclear Facility Application

N2	Class 2
N3	Class 3

Cleaning and Packaging

	FC-01
F2	FC-02



Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

P1, P2, P3 and P4 shall be described in the following orders:

◎ Ferrule - Tube - NPT Thread - ISO Tapered Thread - ISO Parallel Thread - SAE/MS Straight Thread - 37° Flare - Pipe Butt Weld - Fractional Tube Socket Weld - Others

◎ Describe in descending order as per size if the end connection types are the same

◎ Describe the end of P1 if all end connections are the same

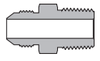
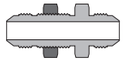
Cleaning and Packaging:

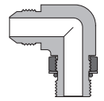
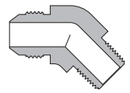
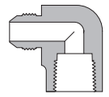
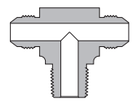
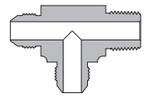
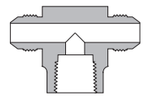
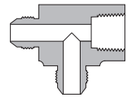
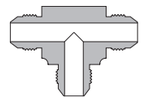
FC-01: Standard cleaning and packaging for general industrial procedures

FC-02: Special cleaning and packaging for wetted system components to ensure compliance with product cleanliness requirement as stated in ASTM G93 Level C

37° Flared Tube Fittings

- Fittings are designed and manufactured in compliance with SAE J514.
- Sizes range from 1/8" to 2" and 3 mm to 50 mm.
- 316 stainless steel, aluminum, brass, and carbon steel materials are available.
- Hardened threads and smoothed surface finishes extend fitting life and prevent sticking of the matching threads.
- Radius junction design within elbows provides smooth flow path.
- Every fitting is stamped with size, material and heat code.
- Female nut threads are silver-plated to minimize the friction with body threads.
- Fittings are easy to disconnect and retighten.

Configuration	Fitting Type	Example
	Sleeve	SS-SL-AN8
	Nut	AL-N-AN8
	Male Connector	B-CM-AN8-NS8
	Female Connector	CS-CF-AN8-RT6
	Union	SS-U-AN8
	Reducing Adapter	SS-RA-AN8-AN4
	Bulkhead Union	SS-BU-AN6
	Tube Plug	SS-TP-AN6
	Tube Cap	SS-TC-AN6

Configuration	Fitting Type	Example
	Male Elbow	SS-LM-AN8-NS4
	Positionable Male Elbow	SS-LP-AN10-ST14
	45° Male Elbow	SS-VM-AN8-NS6
	Female Elbow	SS-LF-AN8-NS6
	Union Elbow	SS-LU-AN4
	Male Branch Tee	SS-TTM-AN8-NS4
	Male Run Tee	SS-TMT-AN8-RT4
	Female Branch Tee	SS-TTF-AN8-RT4
	Female Run Tee	SS-TFT-AN8-NS4
	Union Tee	SS-TTT-AN8
	Union Cross	SS-C-AN12

Part Number Description

SS – CM – AN8 – NS8 – □ – □

Material		Fitting Type		P1 Type		P1 Size		P2 Type		P2 Size		P3 and P4
SS	316 SS	SL	Sleeve	AN	37°Flare	1	1/16"	Except the same as the P1, the other type follows:		Except the same as the P1, the other size follows:		Specify in the same way as the P2
AL	Aluminum	N	Nut	AS	37°Flare Swivel	2	1/8" or 2 mm	NS	NPT Thread	5	5/16-24	
B	Brass	CM	Male Connector			3	3/16" or 3 mm	RT	ISO Tapered Thread	6	3/8-24	
CS	Carbon Steel	CF	Female Connector			4	1/4" or 4 mm	ST	SAE/MS Straight Thread	7	7/16-20	
		U	Union			5	5/16"			8	1/2-20	
		HU	Large Hex Union			6	3/8" or 6 mm			9	9/16-18	
		RA	Reducing Adapter			8	1/2" or 8 mm			12	3/4-16	
		BU	Bulkhead Union			10	5/8" or 10 mm			14	7/8-14	
		TP	Plug			12	3/4" or 12 mm			17	1 1/16-12	
		TC	Cap			14	7/8" or 14 mm			19	1 3/16-12	
		LM	Male Elbow			15	15 mm			21	1 5/16-12	
		VM	45° Male Elbow			16	1" or 16 mm			26	1 5/8-12	
		LP	Positionable Male Elbow			18	1 1/8" or 18 mm			30	1 7/8-12	
		LF	Female Elbow			20	1 1/4" or 20 mm			40	2 1/2-12	
		LU	Union Elbow			22	22 mm					
		TMT	Male Run Tee			24	1 1/2" or 24 mm					
		TTM	Male Branch Tee			25	25 mm					
		TFT	Female Run Tee			28	28 mm					
		TTF	Female Branch Tee			32	2" or 32 mm					
		TTP	Positionable Male Branch Tee			38	38 mm					
		TTT	Union Tee			50	50 mm					
		C	Union Cross									

P4
P1 P2
P3

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

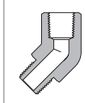
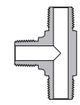
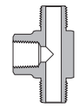
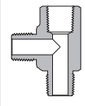
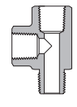
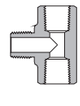
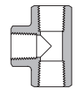
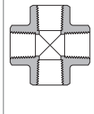
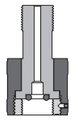
P1,P2,P3 and P4 shall be described in the following orders:

- 37°Flare - 37°Flare Swivel - NPT Thread - ISO Tapered Thread - SAE/MS Straight Thread - Others
- Describe in descending order as per size if the end connection types are the same
- Describe the end of P1 if all end connections are the same

6 Series Pipe Fittings

- Sizes range from 1/16" to 2" and 6 mm to 30 mm.
- Materials include stainless steel, alloy 400/R-405, alloy 600, brass, and carbon steel.
- End connections with NPT, ISO/BSP, SAE, and metric threads are available.
- Hardened threads and smoothed surface finishes extend fitting life and prevent sticking of the matching threads.
- Radius junction design within elbows provides smooth flow path.
- Every fitting is stamped with size, materia, and heat code.

Configuration	Fitting Type	Example
	Pipe Plug	SS-PP-MRS14
	Hollow Hex Plug	S4-PI-NS4
	Close Nipple	S1-PCN-RT6
	Special Pipe Nipple	M-PSN-NS6-50.8
	Hex Nipple	INC-PHN-NS8-RP8
	Hex Long Nipple	B-PLN-NS6-76.2
	Reducing Bushing	CS-PRB-NS8-RT4
	Pipe Cap	SS-PC-NS4
	Hex Coupling	SS-PCG-NS12-NS8
	Union Ball Joint	SS-UBJ-NS4

Configuration	Fitting Type	Example
	Adapter	SS-PA-NS8-ST12
	Male Elbow	SS-PME-NS6
	Street Elbow	SS-PSE-RT6-RT4
	45° Street Elbow	SS-PSV-NS6-NS4
	Female Elbow	SS-PE-NS6
	45° Female Elbow	SS-PVE-NS6
	Male Tee	SS-PMT-NS4
	Female Branch Tee	SS-PTB-NS6
	Female Run Tee	SS-PTR-RT6
	Male Street Tee	SS-PST-NS6
	Male Branch Tee	SS-PBT-NS6
	Female Tee	SS-PT-RT8
	Female Cross	SS-PCR-NS6
	Pipe to Pipe Union	SS-PUP-MS20-NS4
	Hand Tight Adapter Fitting	SS-HF-MS20-FMS20
	Fusible Fittings	SS-GFPP4-160

Part Number Description

SS – PSE – NS6 – NS4 – □ – □ – S – □

Material

SS	316 SS
S4	304 SS
S1	321 SS
M	Alloy 400
INC	Alloy 600
HC	Alloy C-276
B	Brass
CS	Carbon Steel
904L	904L SS

Fitting Type

PP	Pipe Plug
PI	Hollow Hex Plug
PCN	Close Nipple
PSN	Special Pipe Nipple
PHN	Hex Nipple
PLN	Hex Long Nipple
PRB	Reducing Bushing
PC	Pipe Cap
PCG	Hex Coupling
UBJ	Union Ball Joints
PA	Adapter
PME	Male Elbow
PSE	Street Elbow
PSV	45° Street Elbow
PE	Female Elbow
PVE	45° Female Elbow
PMT	Male Tee
PTB	Female Branch Tee
PTR	Female Run Tee
PST	Male Street Tee
PBT	Male Branch Tee
PT	Female Tee
PCR	Female Cross
PUP	Pipe to Pipe Union
HF	Hand Tight Adapter Fitting

P1 Type

NS	NPT Thread
RT	ISO Tapered Thread
RG	ISO Parallel Thread (Gauge)
BP	ISO Parallel Thread
RS	ISO Parallel Thread
MRS	Male Metric Thread
MS	Male Metric Thread
ST	Male SAE/MS Straight Thread
US	Female SAE/MS Straight Thread

P1 Size

2	1/8"
4	1/4"
5	5/16-24
6	3/8"or 3/8-24
7	7/16-20
8	1/2"or M8 x 1
9	9/16-18
10	M10 x 1
12	3/4"or M12 x 1.5 or 3/4-16
14	M14 x 1.5 or 7/8-14
16	1"or M16 x 1.5
17	1 1/16-12
18	M18 x 1.5
19	1 3/16-12
20	1 1/4"or M20 x 1.5
21	1 5/16-12
22	M22 x 1.5
24	1 1/2"or M24 X 1.5
26	1 5/8-12
27	M27 x 2
30	1 7/8-12 or M30 x 2
32	2"

P2, P3 and P4

Specify in the same way as the P1

Special Application

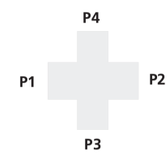
	NO
S	NACE MR0175

Classification for Nuclear Facility Application

N2	Class 2
N3	Class 3

Cleaning and Packaging

	FC-01
F2	FC-02



Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

P1, P2, P3 and P4 shall be described in the following orders:

- NPT Thread - ISO Tapered Thread - ISO Parallel Thread - SAE/MS Straight Thread - Metric Thread - Others
- Male after female but the "PRB" and the "HF" types are not included
- Describe in descending order as per size if the end connection types are the same
- Describe the end of P1 if all end connections are the same

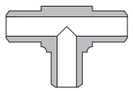
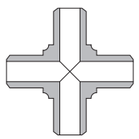
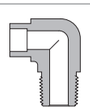
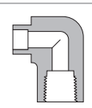
Cleaning and Packaging:

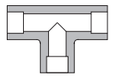
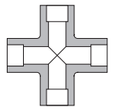
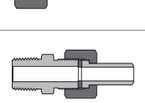
FC-01: Standard cleaning and packaging for general industrial procedures

FC-02: Special cleaning and packaging for wetted system components to ensure compliance with product cleanliness requirement as stated in ASTM G93 Level C

6 Series Weld Fittings

- Sizes range from 1/8" to 2" and 6 mm to 38 mm.
- 316 stainless steel material is standard; other materials are available on request.
- Radius junction design within elbows provides smooth flow path.
- Maximum working temperature is 1000°F (538°C).
- Every fitting is stamped with size, material, and heat code.

Configuration	Fitting Type	Example
	Tube Butt Weld Male Connector	SS-WM-TB12-NS8
	Tube Butt Weld Female Connector	SS-WF-MTB14-NS8
	Tube Butt Weld Reducing Union	SS-WU-MTB20-MTB14
	Tube Butt Weld Union Elbow	SS-WLU-TB8
	Tube Butt Weld Union Tee	SS-WT-MTB14
	Tube Butt Weld Union Cross	SS-WC-MTB12
	Tube Socket Weld Male Connector	SS-WM-TS8-NS8
	Tube Socket Weld Female Connector	SS-WF-MTS14-NS4
	Tube Socket Weld Male Elbow	SS-WLM-TS6-NS6
	Tube Socket Weld Female Elbow	SS-WLF-TS8-NS8

Configuration	Fitting Type	Example
	Tube Socket Weld Union	SS-WU-TS8
	Tube Socket Weld Reducing Union	SS-WU-TS12-TS8
	Tube Socket Weld Union Elbow	SS-WLU-MTS14
	Tube Socket Weld Union 45° Elbow	SS-WV-TS8
	Tube Socket Weld Union Tee	SS-WT-MTS14
	Tube Socket Weld Union Cross	SS-WC-TS8
	Pipe Butt Weld Male Connector	SS-WM-PB6-NS6
	Pipe Butt Weld Female Connector	SS-WF-PB8-NS8
	Pipe Socket Weld Male Connector	SS-WM-PS6-NS6
	Pipe Socket Weld Female Connector	SS-WF-PS8-NS8
	Pipe Socket Weld Union	SS-WU-PS8
	Tube to Tube Weld Adapter	SS-WA-TB8-TS6
	Pipe to Tube Weld Adapter	SS-WA-PB8-TS8
	Pipe to Weld End Union	SS-PUW-MS20-MTB14
	Male Pipe to Weld End Union	SS-MUW-NS8-MTB14

Part Number Description

SS – WLM – TS6 – NS6 – □ – □ – S – □

	Material		Fitting Type		P1 Type		P1 Size		P2, P3 and P4		Special Application		Cleaning and Packaging	
SS	316 SS	WM	Male Connector	TB	Fractional Tube Butt Weld	2	1/8"		Specify in the same way as the P1					
6L	316L SS	WF	Female Connector	TS	Fractional Tube Socket Weld	4	1/4"							
904L	904L SS	WU	Reducing Union	MTB	Metric Tube Butt Weld	6	3/8" or 6 mm							
		WLU	Union Elbow	MTS	Metric Tube Socket Weld	8	1/2" or 8 mm							
		WT	Union Tee	PB	Pipe Butt Weld	10	5/8" or 10 mm							
		WC	Union Cross	PS	Pipe Socket Weld	12	3/4" or 12 mm or M12 x 1.5							
		WLM	Male Elbow	NS	NPT Thread	14	7/8" or 14 mm or M14 x 1.5							
		WLF	Female Elbow	RT	ISO Tapered Thread	16	1" or 16 mm or M16 x 1.5							
		WV	45° Union Elbow	BP	ISO Parallel Thread	18	18 mm or M18 x 1.5							
		WA	Adapter	MS	Metric Thread	20	1 1/4" or 20 mm or M20 x 1.5							
		PUW	Pipe To Weld			22	22 mm or M22 x 1.5							
		MUW	Male Pipe To Weld			24	1 1/2" or M24 x 1.5							
						25	25 mm							
						27	M27 x 2							
						28	28 mm							
						30	30 mm or M30 x 2							
						32	2" or 32 mm							
						38	38 mm							

P4 P2 P1 P3

	Special Application
	NO
S	NACE MR0175
	Classification for Nuclear Facility Application
N2	Class 2
N3	Class 3

	Cleaning and Packaging
	FC-01
F2	FC-02

P1, P2, P3 and P4 shall be described in the following orders:

- Pipe thread connection type after weld connection type ("PUW" and "MUW" excluded)
- Pipe Butt Weld - Tube Butt Weld - Pipe Socket Weld - Tube Socket Weld - Others
- Describe in descending order as per size if the end connection types are the same
- Describe the end of P1 if all end connections are the same

Cleaning and Packaging:

FC-01: Standard cleaning and packaging for general industrial procedures

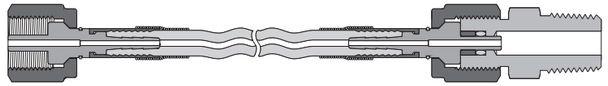
FC-02: Special cleaning and packaging for wetted system components to ensure compliance with product cleanliness requirement as stated in ASTM G93 Level C

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

Calibration Fittings and Hoses

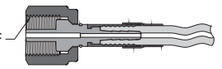
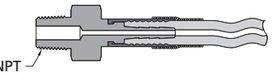
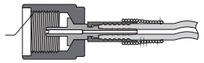
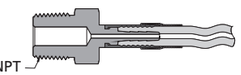
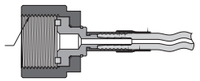
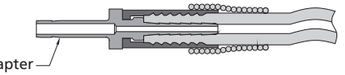
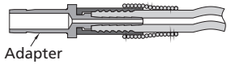
- Assembly and disassembly without requirement for a wrench or thread sealant
- Flexible hoses with small inside diameter and low internal volume
- Variety of adapters to connect with wide range of calibration devices
- Mix-interchangeable with other main brands
- Every assembly is factory tested with pure water at 1.5 times the maximum working pressure.

Quick-test Hoses



- Maximum working pressure: 6900 psig (475 bar)
- Temperature range: -10˚F to 140˚F (-23˚C to 60˚C)
- Hose outside diameter: 0.2" (5 mm)
- Hose inside diameter: 0.08" (2 mm)
- End connection materials: 316 SS, 304 SS

Hose Ends

FST End	1/2-20 UNF 	NS2 End	1/8-27 NPT 
SMS16×2 End	M16×2.0 	NS4 End	1/4-18 NPT 
SMS20 End	M20×1.5 	FT2 End	1/8" Tube Adapter 
FT4 End	1/4" Tube Adapter 		

Types listed are standard. Other types are available upon request.

Part Number Description

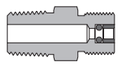
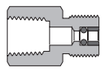
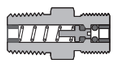
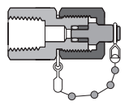
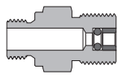
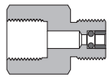
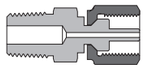
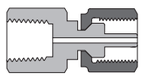
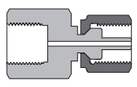
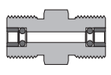
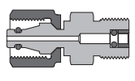
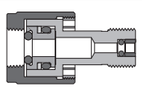
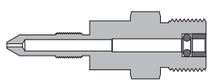
SS – QH – SMS20 – FST – F36

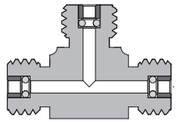
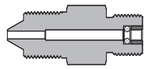
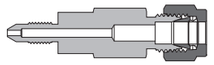
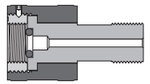
End Connection Material		Series	End 1 Connection Type and Size		End 2 Connection Type and Size		Overall Length	
SS	316 SS	QH	FST	1/2" Female UNF Swivel		Same as End 1	FXX	XX in.
S4	304 SS		NS2	1/8 Male NPT	Specify in the same way as the end 1 connection type and size		MXX	XX mm
			NS4	1/4 Male NPT				
			FT2	1/8" Tube Adapter				
			FT4	1/4" Tube Adapter				
			SMS16×2	M16 x 2.0 Female Swivel				
			SMS20	M20 x 1.5 Female Swivel				

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

Quick-test Adapters and Fittings

- Maximum working pressure: 5000 psig (345 bar)
- Temperature range:
  -10°F to 400°F (-23°C to 204°C) with fluorocarbon FKM seal
  -10°F to 250°F (-23°C to 121°C) with Buna N seal
- Materials: 316 SS, 304 SS
- Optional check valves and protective caps available

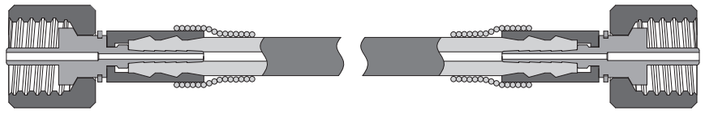
Configuration	Fitting Type	Example
	Male NPT Adapters	SS-QT-NS4-ST
	Female NPT Adapters	SS-QT-FNS4-ST
	Male BSPT Adapters	SS-QT-RT4-ST-V
	Female BSPT Adapters	SS-QT-FRT4-ST-PC
	Male BSPP Adapters	SS-QT-RS2-ST
	Female BSPP Adapters	SS-QT-RG4-ST
	Male NPT Quick-test Gauge Adapters	SS-QT-NS4-FST
	Female NPT Quick-test Gauge Adapters	SS-QT-FNS4-FST
	Female BSPP Quick-test Gauge Adapters	SS-QT-RG4-FST
	Quick-test Hose Unions	SS-QT-ST-ST
	Hand Tight Female NPT Quick-test Gauge Adapters	SS-QT-QL4-ST
	Quick-test Tube Adapters	SS-QT-QNS8-ST
	DP Transmitter Calibration Adapters	SS-QT-CH-ST

Configuration	Fitting Type	Example
	Quick-test Tees	SS-QT-ST-ST-ST
	Male High Pressure Adapters	SS-QT-60HP-ST
	DP Transmitter Calibration Adapters	SS-QT-CH-FL4
	Hand Tight Adapters	SS-QT-MS20-MS14

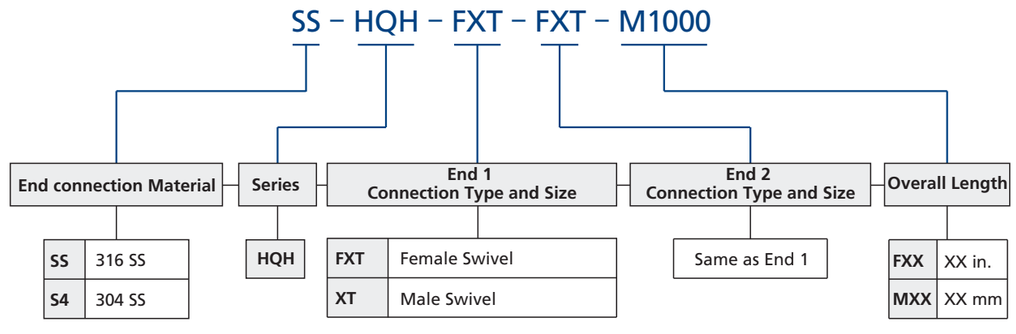
High Pressure Quick-test Hose Assemblies

HQH Series

- Maximum working pressure: 689 bar (10000 psig)
- Working temperature: -40°F to 140°F (-40°C to 60°C)
- Outer diameter of hose: 0.24" (6 mm)
- Inner diameter of hose: 0.08" (2 mm)
- Hose end materials: 316 SS or 304 SS
- Fluid media: water, petroleum based oils, air, inert gas



Part Number Description

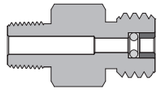
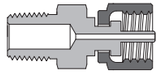
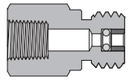
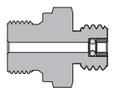
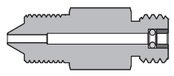
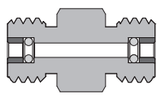
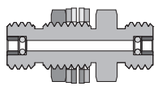
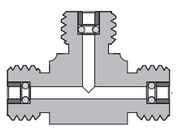


Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

High Pressure Quick-test Fittings

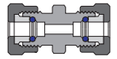
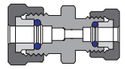
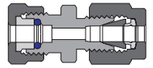
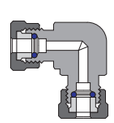
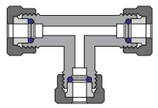
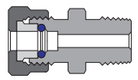
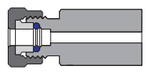
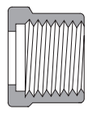
HQT Series

- Maximum working pressure: 689 bar (10000 psig)
- Working temperature:
  FKM Seal: -10°F to 400°F (-23°C to 204°C)
  NBR Seal: -10°F to 250°F (-23°C to 121°C)
- Hose end materials: 316 SS or 304 SS
- Convenient connection: No wrench or thread sealant required for assembly or disassembly.
- This kind of fittings is not applicable to use with FITOK QH series Quick-test Hose, please use with FITOK HQH series Quick-test Hose.

Configuration	Fitting Type	Example
	Male NPT Adapter	SS-HQT-NS4-XT
	Male NPT Quick-test Gauge Adapters	SS-HQT-NS4-FXT
	Female NPT Adapters	SS-HQT-FNS4-XT
	Male BSPP Adapters	SS-HQT-RS4-XT
	High Pressure Male Adapters	SS-HQT-60HP-XT
	Quick-test Unions	SS-HQT-XT-XT
	Quick-test Bulkhead Unions	SS-HQT-XT-TXT
	Quick-test Tees	SS-HQT-XT-XT-XT

VL Series Vacuum Tube Fittings

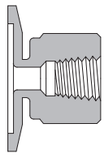
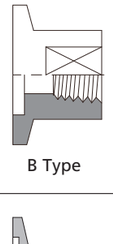
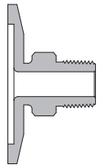
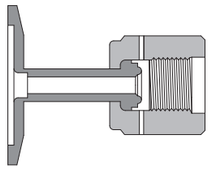
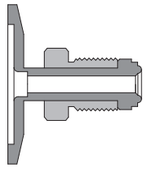
- Stainless steel construction, fluorocarbon FKM O-ring
- Available in tube sizes from 1/16" to 1 1/2"
- Temperature rating: -25°F to 400°F (-31°C to 204°C)
- Knurled nut for easy, finger-tight assembly
- Reliable, repeatable sealing performance

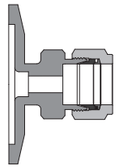
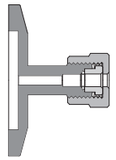
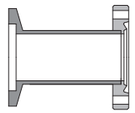
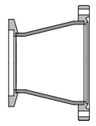
Configuration	Fitting Type	Example
	Union	SS-U-VL8
	Reducing Union	SS-U-VL6-VL4
	Tube Fitting Union	SS-U-VL4-FL4
	Union Elbow	SS-LU-VL8
	Union Tee	SS-TTT-VL8
	Male Connector	SS-CM-VL8-NS6
	Adapter	SS-CW-VL4-A4
	Nut	SS-N-VL10
	O-ring	VI7-014

VA Series Vacuum Adapter Fittings

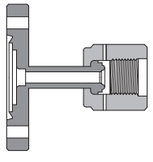
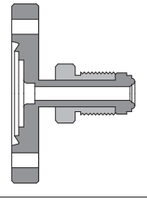
- Vacuum Range:
  Copper Seal: ≧10^{-12} Torr
  Elastomeric Seal: ≧10^{-8} Torr
- Operational Temperature Range:
  Copper Seal: -325 to 842°F (-200 to 450°C)
  Elastomeric Seal: -4 to 302°F (-20 to 150°C)
- Standard materials are in stainless steel 304, 304L, 316, 316L or Aluminum.

KF Adapter Fittings

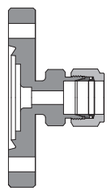
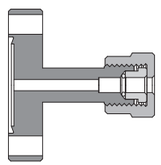
Configuration	Fitting Type	Example
 A Type (Default)	KF to Female NPT	S4-VA-KF10-FNS2
 B Type	KF Female NPT	S4-VA-KF16-FNS2-N
	KF to Male NPT	S4-VA-KF10-NS2
	KF to Female FR Metal Gasket Face Seal Fitting	S4-VA-KF10-FFR4
	KF to Rotatable Male FR Metal Gasket Face Seal Fitting	S4-VA-KF10-RFR4

Configuration	Fitting Type	Example
	KF to Tube Fitting	S4-VA-KF10-FL4
	KF to VL Fitting	S4-VA-KF25-VL4
	KF to CF Flange Straight Reducing	S4-VA-KF10-CF133-SR
	KF to CF Flange Conical Reducing	S4-VA-KF16-CF212-NCR

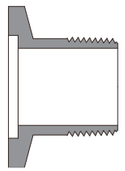
CF Adapter Fittings

Configuration	Fitting Type	Example
	CF to Female FR Metal Gasket Face Seal Fitting	S4-VA-CF133-FFR4
	CF to Rotatable Male FR Metal Gasket Face Seal Fitting	S4-VA-CF133-RFR4

CF Adapter Fittings

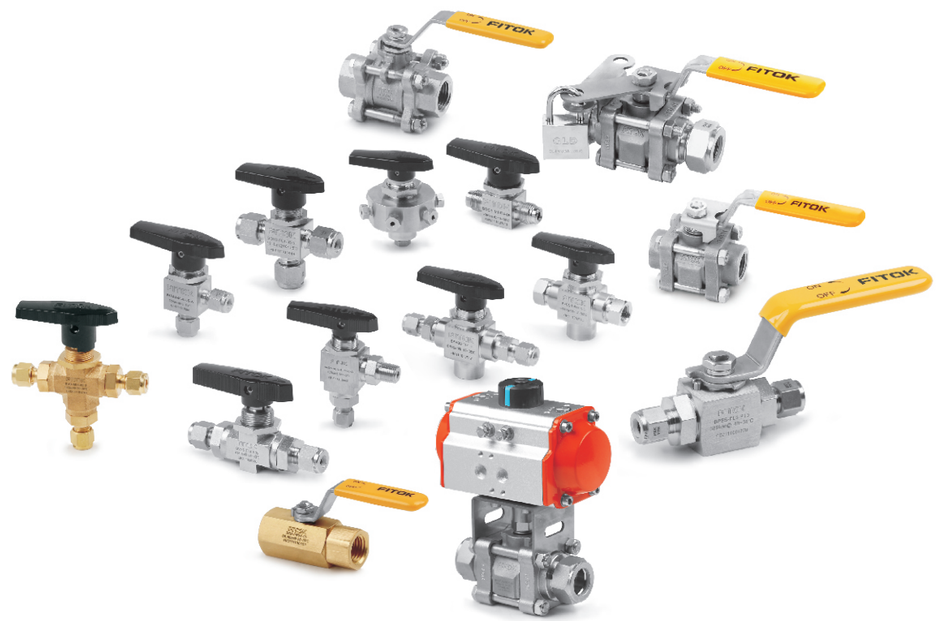
Configuration	Fitting Type	Example
	CF to Tube Fitting	S4-VA-CF133-FL4
	CF to VL Fitting	S4-VA-CF212-VL4

Other Adapter Fittings

Configuration	Fitting Type	Example
	Male ISO Tapered Thread	S4-VA-KF10-RT4

Valves

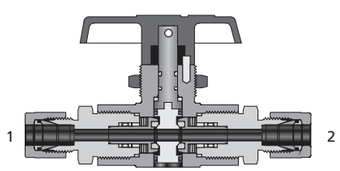
Ball Valves



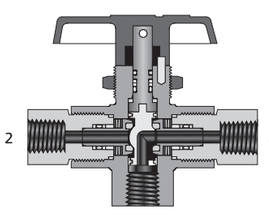
- Smooth and low operating torques
- Variety of handle colors
- Pneumatic and electric actuators available
- Panel mountable
- Leak-tight performance testing for every valve at the maximum working pressure with nitrogen

BF and BFH Series

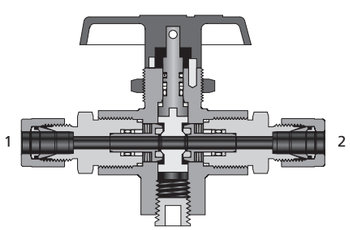
- Forged body with end connectors
- Body materials: 316 SS, 316L SS, 904L SS, and alloy 400
- Seat materials: PTFE, PCTFE and PEEK
- Packing materials: fluorocarbon FKM and PTFE
- End connections:
  1/8 to 1/4 female NPT
  1/4" to 1/2" and 6 mm to 12 mm tube fitting
- Orifice size: 4.8 mm
- Maximum working pressure:
  BF Series: 6000 psig (414 bar)
  BFH Series: 10 000 psig (689 bar)
- Working temperature: 0°F to 450°F (-18°C to 232°C)



BF Series



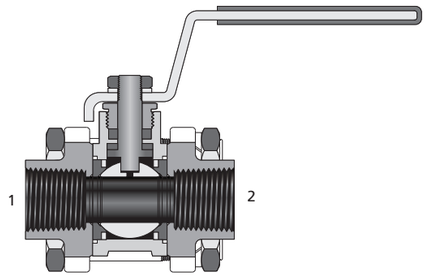
BF Series



BFH Series

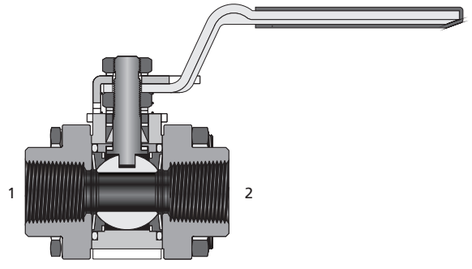
BG Series

- 3-piece precision cast body construction
- Body materials: CF8M (316), CF3M (316L), CF8 (304), and CF3 (304L)
- Seat material: PTFE
- Packing material: PTFE
- End connections:
  1/8 to 3 thread
  1/8" to 3" pipe butt or socket weld
  1/2" to 2" and 12 mm to 50 mm tube butt or socket weld
  1/2" to 2" and 12 mm to 38 mm tube fitting
- Orifice sizes: 4.8 mm to 76 mm
- Maximum working pressure: 1000 psig (68.9 bar)
- Working temperature: -20°F to 450°F (-28°C to 232°C)



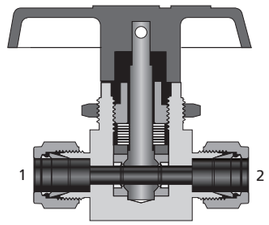
BH Series

- 3-piece precision cast body construction
- Body materials: CF8M (316), CF3M (316L), CF8 (304), and CF3 (304L)
- Seat materials: PTFE, RPTFE and PEEK
- Packing materials: RPTFE, Graphite and O-ring
- End connections:
  1/8 to 2 thread
  1/8" to 2" pipe butt or socket weld
  1/2" to 2" and 12 mm to 50 mm tube butt or socket weld
  1/2" to 2" and 12 mm to 38 mm tube fitting
- Orifice sizes: 4.8 mm to 38.1 mm
- Maximum working pressure: 3000 psig (207bar)
- Working temperature: -20°F to 450°F (-28°C to 232°C)
- Fire-safe design available



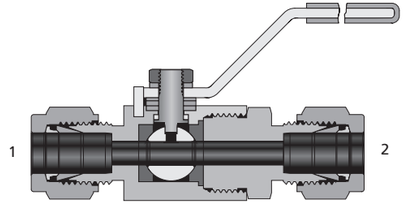
BO Series

- 1-piece forged body, top entry
- Body materials: 316 SS, 316L SS, 304 SS, 321 SS, 304L SS, 904L SS, alloy 400, and brass
- Seat materials: PTFE, RPTFE and UHMWPE
- Flow patterns: 2-way, 3-way, 4-way, 5-way, 6-way and 7-way
- End Connections:
  1/16 to 3/4 female thread
  1/8" to 3/4" and 3 mm to 22 mm tube fitting
- Orifice sizes: 1.3 mm to 10.3 mm
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -65°F to 300°F (-54°C to 148°C)



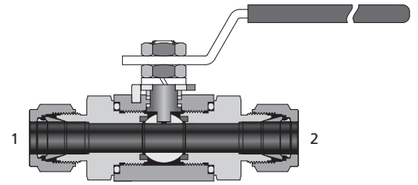
BR Series

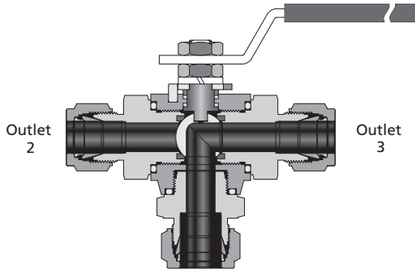
- Cold-drawn hex bar and casting body with single connector
- Body materials: 316 SS, 304 SS, 321 SS, 904L SS, and brass
- Seat material: PTFE
- Packing material: PTFE
- End connections:
  1/8 to 1 thread
  1/4" to 1" and 6 mm to 25 mm tube fitting
- Orifice sizes: 4.8 mm to 16 mm
- Maximum working pressure: 1000 psig (68.9 bar)
- Working temperature: -20°F to 450°F (-28°C to 232°C)



BP Series

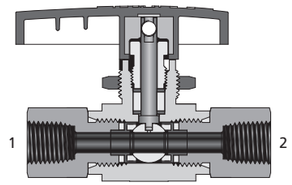
- Cold-drawn bar or forged body with end connectors
- Body materials: 316 SS, 304 SS, 321 SS, and 904L SS
- Seat materials: PVDF, PCTFE and PEEK
- Packing material: PTFE
- Flow patterns: 2-way and 3-way
- End connections:
  1/4 to 1 thread
  1/4" to 1" and 6 mm to 25 mm tube fitting
- Orifice sizes: 10 mm, 12.7 mm, and 18 mm
- Maximum working pressure: 10 000 psig (689 bar)
- Working temperature: -40°F to 450°F (-40°C to 232°C)

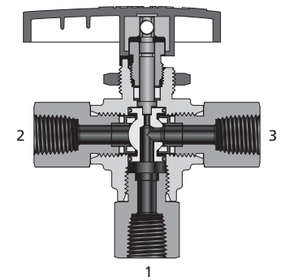


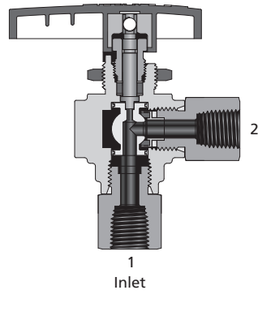


BV Series

- Precision cast body with end connectors
- Body materials: CF8M (316), CF3M (316L), CF8 (304), 904L SS, and CF3 (304L)
- Seat materials: PTFE, PCTFE and PEEK
- Packing material: PTFE
- Flow patterns: 2-way straight, 2-way angle, and 3-way
- End connections:
  1/8 to 3/4 thread
  1/8" to 3/4" and 3 mm to 22 mm tube fitting
- Orifice sizes: 2.4 mm to 10.3 mm
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -65°F to 450°F (-54°C to 232°C)







Part Number Description

BVSS – FL8 – FNS8 – P10 – □R – Y3 – SF2

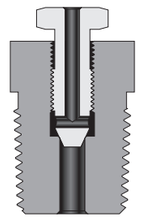
Series	Body Material	Port 1 Type	Port 1 Size	Port 2/3 Type	Port 2/3 Size	Seat Material	Orifice Size	Ball Material	Packing Material	Handle/Actuators	Flow Pattern	Special Application	Cleaning and Packaging
BF	SS CF8M/316 SS	FNS Female NPT	2 1/8"		Same as Port 1	PTFE	02 0.093" (2.4 mm)	316 SS	Fluorocarbon FKM (BF, BFH)	Black,Nylon (BF, BFH,BV, BO)	2	Straight	NO
BFH	6L CF3M/316L SS	NS Male NPT	3 3 mm		Specify every Port designator if any of its Ports is different from the others	UHMWPE H	03 0.125" (3.2 mm)	D 630 For BH Series	PTFE(BG, BH, BO, BP, BR, BV)	Stainless steel withyellow vinyl covered (BG, BH, BP, BR)	3	A Angle (Bottom Port Inlet)	S NACE MR0175
BG	S4 CF8/304 SS	FRT Female BSPT	4 1/4"			PCTFE K	04 0.165" (4.2 mm)		B Buna N	C Red Handle or Vinyl Covered	4	AL Angle (Side Port Inlet)	FC-01
BH	4L CF3/304L SS	RT Male BSPT	5 5/16"			PEEK P	05 0.187" (4.7 mm)		E Ethylene propylene	F Green Handle or Vinyl Covered	5	3D 3-way (Selector Valve of BV Series)	F2 FC-02
BO	S1 321 SS	FMS Female Metric Thread (for RP)	6 3/8" or 6 mm or M6 x 1			Reinforced RPTFE R	07 0.281" (7.1 mm)		G Graphite	J Blue Handle or Vinyl Covered	6	3 3-way	
BP	B Brass	MS Male Metric Thread (for RG)	8 1/2" or 8 mm			Alloy X-750 X	10 0.40" (10.3 mm) For BV BH Series		H UHMWPE	EL Elliptical Handle	7	4 4-way	
BR	M Alloy 400	FRP Female BSPP (for BP)	10 10 mm or M10 x 1				11 0.417" (10.6 mm)		K Fluorocarbon FKM	EA 90° Electric Actuator		5 5-way For BO Series	
BV	22 F22	BP Male BSPP (for RG)	12 3/4" or 12 mm				13 0.5" (12.7 mm)		N Neoprene	EX 180° Electric Actuator		6 6-way	
	91 F91	FL Fractional Tube Fitting	14 14 mm or M14 x 1.5				22 0.875" (22.2 mm)		P PEEK	CS 90° Normally Closed Spring Return		7 7-way	
	D5 Duplex 2205	ML Metric Tube Fitting	16 1" or 16 mm				. . . . .		R RPTFE	DA 90° Double Acting Pneumatic Actuator			
	D7 Duplex 2507	MTS Metric Tube Socket	18 18 mm				. . . . .		T PTFE	OS 90° Normally Open Spring Return Pneumatic Actuator			
	INC Inconel 600	TS Fractional Tube Socket	20 20 mm or M20 x 1.5							CX 180° normally closed spring return three positions pneumatic actuator			
	CS Carbon Steel	MTB Metric Tube Butt Weld	22 22 mm or M22 x 1.5							RX 180° right end normally open spring return pneumatic actuator			
	904L 904L SS	TB Fractional Tube Butt Weld	24 2 1/2" or M24 x 1.5							DX 180° Double Acting Pneumatic Actuator			
		PS Pipe Socket Weld	25 25 mm										
		PB Pipe Butt Weld	27 M27 x 2										
		UFB Nut + Gasket + Bulge Fractional Tube Nipple	28 28 mm										
		UMB Nut + Gasket + Metric Tube Bulge Nipple	32 2" or 32 mm										
		UPB Nut + Gasket + Bulge Pipe Nipple	36 2 1/4" or M36 x 2										
			40 2 1/2" or M40 x 2										
			48 3" or M48 x 2										
			64 4"										

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

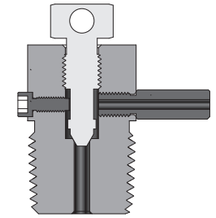
Bleed Valves

RB Series

- Compact design for convenient installation
- Chrome-plated stem and tip extend cycle life
- Working pressures up to 10 000 psig (689 bar)
- Working temperature from -65°F to 850°F (-54°C to 454°C)
- Stainless steel, carbon steel, and alloy R-405 body materials
- End connections:
  1/8 to 1/2 male NPT
  1/4 to 1/2 male BSPT
  M6 x 1, M8 x 1 and M10 x 1 male Metric Thread



Type 1



Type 2

Part Number Description

RBSS – NS4 – L – SH – SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet	Handle	Special Application	Cleaning and Packaging
RB	SS 316 SS	NS Male NPT	2 1/8"	Type 1	NO	NO	FC-01
	6L 316L SS	RT Male BSPT	4 1/4"	L Type 2	SH Stainless Steel Handle (Only For Type 2)	S NACE MR 0175	F2 FC-02
	S4 304 SS		6 3/8"				
	4L 304L SS		8 1/2"				
	S1 321 SS						
	B Brass						
	M Alloy R-405						
	CS Carbon Steel						

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

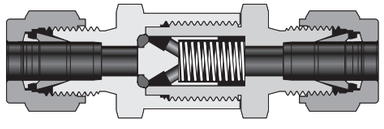
Check Valves

CV, CH and CO Series

Fixed cracking pressure
Can be installed in any direction

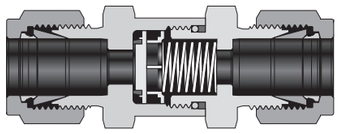
CV Series

- The resilient O-ring seat design provides cushioned and noise-free closing, and resists seat flow-out.
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- Body materials: stainless steel, brass, carbon steel, and alloy
- End connections:
  1/8" to 1" and 6 mm to 12 mm tube fitting
  1/8 to 1 female NPT
  1/8 to 1 male NPT
  1/4 to 1 male FR fitting



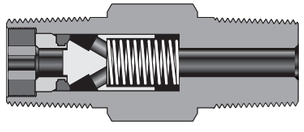
CH Series

- The seat ring is continuously cleaned by media, avoiding secondary pollution.
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- Body materials: stainless steel, brass, carbon steel, and alloy
- End connections:
  1/8" to 1" and 6 mm to 25 mm tube fitting
  1/8 to 1 female NPT, 1/8 to 1 male NPT
  1/4 to 1 female BSPT, 1/4 to 1 male BSPT
  1/4 to 3/4 male FO fitting, 1/4 to 1 male FR fitting



CO Series

- Compact, one piece body
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- Body materials: stainless steel, brass, carbon steel, and alloy
- End connections:
  1/4 to 1/2 female NPT
  1/4 to 1/2 male NPT
  1/4 to 1/2 female BSPT
  1/4 to 1/2 male BSPT

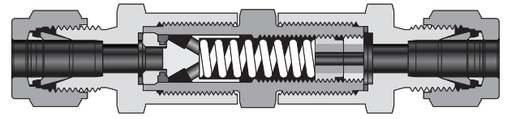


CA and COA Series

Adjustable cracking pressure
Variety of springs available
Installation in any direction

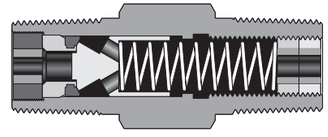
CA Series

- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- Cracking pressure: 3 to 600 psig (0.2 to 41.4 bar)
- Body materials: stainless steel, brass, carbon steel, and alloy
- End connections:
  1/4" to 3/8" and 8 mm tube fitting
  1/4 male FR fitting



COA Series

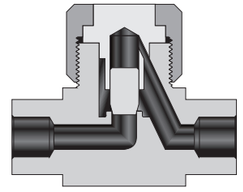
- Compact, one piece body
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- Cracking pressure: 3 to 600 psig (0.2 to 41.4 bar)
- Body materials: stainless steel, brass, carbon steel, and alloy
- End connections:
  1/4 female NPT
  1/4 to 1/2 male NPT
  1/4 to 1/2 male BSPT



CL Series

Union bonnet design
All stainless steel construction
Horizontal installation

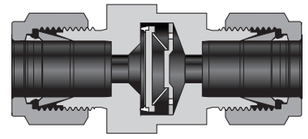
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -65°F to 900°F (-54°C to 482°C)
- Body materials: stainless steel, brass, carbon steel, and alloy
- End connections:
  1/4" to 3/4" and 6 mm tube fitting
  1/8 to 1/2 female NPT
  1/4" to 1/2" tube socket weld
  1/4" to 1/2" pipe butt weld



CW Series

All-welded design for enhanced safety
Installation in any directions

- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Cracking pressure: less than 2 psig (0.14 bar)
- Body materials: stainless steel and alloy
- End connections:
  1/4" and 6 mm tube fitting
  1/4" to 1/2" male and female FR fitting
  1/4" to 1/2" and 6 mm tube butt weld



Part Number Description

CVSS – FL8 – ML10 – B – 2SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Seal Material	Cracking Pressure	Special Application	Cleaning and Packaging

Series	
CV	
CH	
CO	
CA	
COA	
CL	
CW	

Body Material	
SS	316 SS
6L	316L SS
S4	304 SS
4L	304L SS
S1	321 SS
A20	Alloy 20
M	Alloy 400
INC	Alloy 600
HC	Alloy C-276
B	Brass
CS	Carbon Steel
D5	Duplex 2205
D7	Duplex 2507
TI	Titanium
904L	904L SS

Inlet Type	
FNS	Female NPT
NS	Male NPT
FRT	Female BSPT
RT	Male BSPT
FMS	Female Metric Thread (for RP)
MS	Male Metric Thread (for RG)
FRP	Female BSPP (for RP)
BP	Male BSPP (for RG)
TS	Fractional Tube Socket Weld
MTS	Metric Tube Socket Weld
TB	Fractional Tube Butt Weld
MTB	Metric Tube Butt Weld
PS	Pipe Socket Weld
PB	Pipe Butt Weld
FL	Fractional Tube Fitting
ML	Metric Tube Fitting
UFB	Nut+Gasket+ Fractional Bulge Nipple
UMB	Nut + Gasket + Metric Bulge Nipple
FO	Male FO Fitting
FFR	Female FR Fitting
FR	Male FR Fitting
RFR	Rotatable Male FR Fitting

Inlet Size	
2	1/8"
4	1/4"
6	3/8" or 6 mm
8	1/2" or 8 mm
10	10 mm
12	3/4" or 12 mm
14	14 mm or M14 x 1.5
16	1" or 16 mm
18	18 mm
20	1 1/4" or 20 mm or M20 x 1.5
22	22 mm or M22 x 1.5
25	25 mm

Outlet Type	
	Same as Inlet

Specified in the same way as the inlet type and size

Outlet Size	

Seal Material	
	Fluorocarbon FKM
B	Buna N
N	Neoprene
E	Ethylene propylene
Z	Kalrez

Cracking Pressure		
	3 psig	For CV CH CO Series
1	1/3 psig	
2	1 psig	
3	10 psig	
4	25 psig	
	3 to 50 psig	For CA COA Series
5	50 to 150 psig	
6	150 to 350 psig	
7	350 to 600 psig	

Special Application	
	NO
S	NACE MR0175

Cleaning and Packaging	
	FC-01
F2	FC-02

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Part Number Description of Spring Kits

SSCV – SP8 – 2

Spring Material	Series	Part Name	Body Size	Cracking Pressure

Spring Material	
SS	316 SS
S4	304 SS
S2	302 SS
A75	X-750

Series
CV
CH
CO
CA
COA

Part Name	
SP	Spring

Body Size
4
8
12
16

Cracking Pressure		
	3 psig	For CV CH CO Series
1	1/3 psig	
2	1 psig	
3	10 psig	
4	25 psig	
	3~50 psig	For CA COA Series
5	50~150 psig	
6	150~350 psig	
7	350~600 psig	

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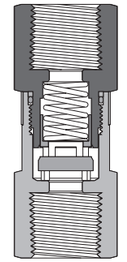
Excess Flow Valves

EV Series

- Compact design for convenient installation
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Stainless steel construction
- Leak-tight performance testing for every valve with nitrogen at the maximum working pressure
- End connections:
  1/4" to 1/2" male 6 mm to 12 mm tube fitting
  1/4 to 1/2 male FR Fitting
  1/4 to 1/2 NPT



Part Number Description

EVSS – FL6 – ML8 – 6Z – SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Orifice Size	Seal Material	Special Application	Cleaning and Packaging

Series	
EV	

Body Material	
SS	316 SS
S4	304 SS
S1	321 SS
6L	316L SS
4L	304L SS
904L	904L SS

Inlet Type	
FNS	Female NPT
NS	Male NPT
FRT	Female BSPT
RT	Male BSPT
FMS	Female ISO (for RP)
MS	Male ISO (for RG)
FRP	Female BSPP (for RP)
BP	Male BSPP (for RG)
FL	Fractional Tube Fitting
ML	Metric Tube Fitting

Inlet Size	
2	1/8"
4	1/4"
6	3/8" or 6 mm
8	1/2" or 8 mm
10	10 mm
12	3/4" or 12 mm

Outlet Type	
	Same as Inlet

Specified in the same way as the inlet typeand size

Outlet Size	

Orifice Size	
4	0.19" (4.8 mm)
6	0.33" (8.4 mm)
8	0.39" (10 mm)

Seal Material	
	Fluorocarbon FKM
B	Buna N
N	Neoprene
E	Ethylene propylene
Z	Kalrez

Special Application	
	NO
S	NACE MR0175

Cleaning and Packaging	
	FC-01
F2	FC-02

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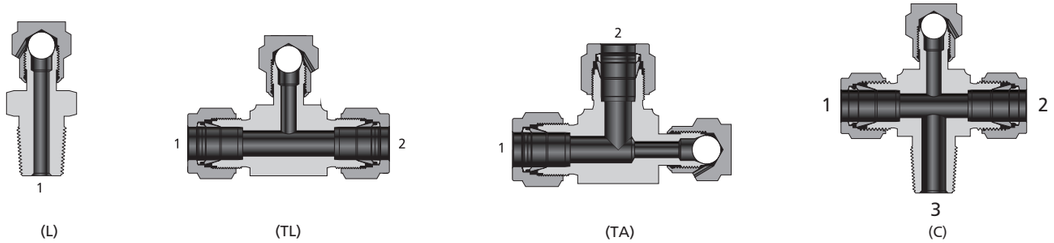
Purge Valves

RP Series

- Compact design for convenient installation
- Bonnet crimped to valve body to prevent accidental disassembly
- Straight, tee and cross body constructions
- Working pressure up to 4000 psig (276 bar)
- Working temperature from -65°F to 600°F (-54°C to 315°C)
- Stainless steel, brass, and carbon steel body materials
- End connections:
  1/8" to 1" and 3 mm to 16 mm tube fitting
  1/8 to 1 female NPT
  1/8 to 1 male NPT



Part Number Description

RPSS – C – FL8 – ML10 – FL8 – SF2

Series	Body Material	Type	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type	End Connection 2 Size	End Connection 3 Type	End Connection 3 Size	Special Application	Cleaning and Packaging
RP	SS 316 SS 6L 316L SS S4 304 SS 4L 304L SS S1 321 SS B Brass CS Carbon Steel 904L 904L SS	L Straight TL In-line Tee TA Angle Tee C Cross	FNS Female NPT NS Male NPT FRT Female BSPT RT Male BSPT FMS Female Metric Thread (for RP) MS Male Metric Thread (for RG) FRP Female BSPP (for RP) BP Male BSPP (for RG) FL Fractional Tube Fitting ML Metric Tube Fitting FT Fractional Tube FR Male FR Fitting	2 1/8" 4 1/4" 6 3/8" or 6 mm 8 1/2" or 8 mm 10 10 mm 12 3/4" or 12 mm 14 14 mm or M14 x 1.5 16 1" or 16 mm	Same as connection 1 Specified in the same way as the end connection 1 type and size		Same as connection 1 Specified in the same way as the end connection 1 type and size		S NO NACE MR0175	FC-01 F2 FC-02

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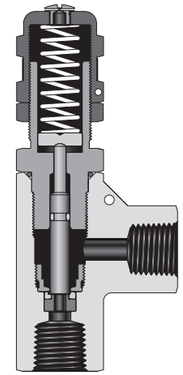
Relief Valves

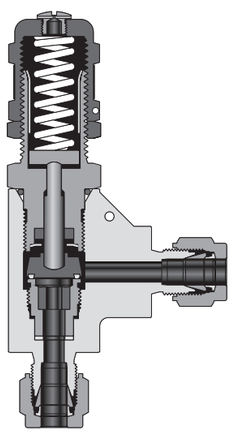
RV Series

- Set Pressure: 7 color-coded springs available for a wide range of set pressure, 50 to 6000 psig @ 70°F (0.34 to 414 bar @ 20°C)
- Maximum outlet pressure: 1500 psig (103 bar)
- Orifice size: RV Series: 0.14" (3.6 mm)
- Balance stem design to eliminate the effect of system back pressure
- Working temperature: -10°F to 300°F (-23°C to 148°C)
- Liquid or gas service
- Adjustable bonnet cap and adjustable set pressure
- Lock wired secure cap to maintain the set pressure
- Variety of seal materials
- Label identifies the set pressure range.
- Manual override handle available to open the valve without changing the set pressure which is lower than 1500 psig
- End connections:
  1/4" and 6 mm to 8 mm tube fitting
  1/4 NPT



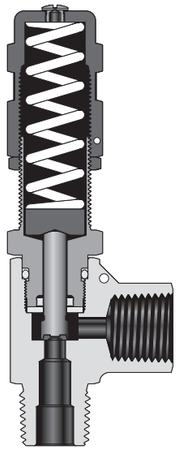
RL Series

- Set Pressure: 10 to 225 psig @ 70°F (0.68 to 15.5 bar @ 20°C)
- Maximum outlet pressure: 225 psig (15.5 bar)
- Orifice size: 0.19" (4.8 mm) and 0.25" (6.4 mm)
- Pre-set pressure = Desired pressure - 0.8 × Back pressure
- Working Temperature: -10°F to 300°F (-23°C to 148°C)
- Liquid or gas service
- Adjustable bonnet cap and adjustable set pressure
- Lock wired secure cap to maintain the set pressure
- Variety of seal materials
- Label identifies the set pressure range
- Manual override handle available to open the valve without changing the set pressure which is lower than 1500 psig
- End connections:
  1/4" to 1/2" and 6 mm to 12 mm tube fitting
  1/4 to 1/2 NPT



RM Series

- Set Pressure: 3 color-coded springs available for a wide range of set pressure, 50 to 1500 psig @ 70°F (3.4 to 103 bar @ 20°C)
- Maximum outlet pressure: 1500 psig (103 bar)
- Orifice size: 0.25" (6.4 mm)
- Balance stem design to eliminate the effect of system back pressure
- Working temperature: -10°F to 300°F (-23°C to 148°C)
- Liquid or gas service
- Adjustable bonnet cap and adjustable set pressure
- Lock wired secure cap to maintain the set pressure
- Variety of seal materials
- Label identifies the set pressure range
- Manual override handle available to open the valve without changing the set pressure which is lower than 1500 psig
- End connections:
  3/8" to 1/2" and 8 mm to 12 mm tube fitting
  1/4 to 1/2 NPT



Part Number Description

Spring for Valves

7PRV – SP6 – Y

Material	Valve Series	Part Name	Valve Orifice Size	Spring Kit Color
7P S17700	RV	SP Spring	6 0.14"(3.6 mm) RV Series Valves Only	F Green 50 ~ 300 psig (For RV and RM Series Valves)
	RM		7 0.19"(4.8 mm) RL Series Valves Only	O Orange 300 ~ 700 psig (For RV and RM Series Valves)
	RL		8 0.25"(6.4 mm) RL and RM Series Valves	Y Yellow 10 ~ 225 psig (For RL Series Valves Only)
				Yellow 700 ~ 1500 psig (For RV and RM Series Valves)
				P Purple 1500 ~ 2500 psig (For RV Series Valves Only)
				W White 2500 ~ 3500 psig (For RV Series Valves Only)
				J Blue 3500 ~ 4500 psig (For RV Series Valves Only)
				C Red 4500 ~ 6000 psig (For RV Series Valves Only)

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Part Number Description

Valves

RVSS – FL6 – ML8 – 6Z – WM – SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Orifice Size	Seal Material	Spring Kit Color	Handle	Special Application	Cleaning and Packaging
RV	SS 316 SS	FNS Female NPT	2 1/8"	Same as inlet	Same as inlet	6 0.14" (3.6 mm) RV Only	Fluorocarbon FKM	Yellow 10 ~ 225 psig (RL Only)	None	NO	FC-01
RM	S4 304 SS	NS Male NPT	4 1/4"	Specified in the same way as the inlet type and size		7 0.19" (4.8 mm) RL Only	B Buna N	F Green 50 ~ 300 psig (RV and RM)	M Manual Override Handle	S NACE MR0175	F2 FC-02
RL	S1 321 SS	FRT Female BSPT	6 3/8" or 6 mm			8 0.25" (6.4 mm) RL and RM	N Neoprene	O Orange 300 ~ 700 psig (RV and RM)			
	6L 316L SS	RT Male BSPT	8 1/2" or 8 mm				E Ethylene propylene	Y Yellow 700 ~ 1500 psig (RV and RM)			
	4L 304L SS	FMS Female Metric Thread (for RP)	10 10 mm				Z Kalrez	P Purple 1500 ~ 2500 psig (RV Only)			
	904L 904L SS	MS Male Metric Thread (for RG)	12 3/4" or 12 mm					W White 2500 ~ 3500 psig (RV Only)			
		FRP Female BSPP (for RP)						J Blue 3500 ~ 4500 psig (RV Only)			
		BP Male BSPP (for RG)						C Red 4500 ~ 6000 psig (RV Only)			
		FL Fractional Tube Fitting						N No spring			
		ML Metric Tube Fitting									

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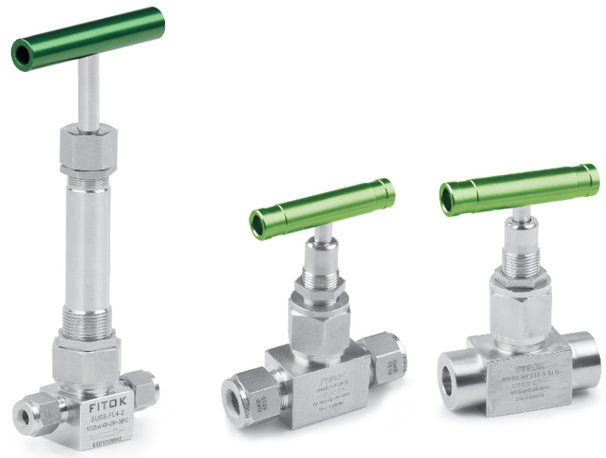
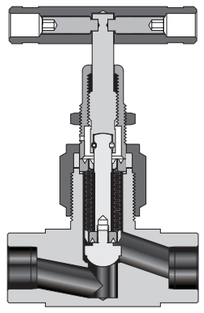
Bellows-sealed Valves



- Secondary containment system above the bellows
- Hydraulic-formed multilayer bellows enhance cycle life.
- Nonrotating stem tip eliminates galling within the seat area.
- Strictly controlled bellows stroke to improve safety and cycle life.
- Replaceable bellows and stem assembly
- Regulating, conical and spherical stem tips available.
- Panel, bottom and side mounting available

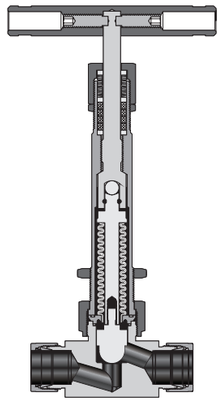
SW Series

- Working pressure up to 1000 psig (68.9 bar)
- Working temperature from -20°F to 900°F (-28°C to 482°C)
- Stainless steel, brass and alloy 400 body materials
- End connections:
  1/4" to 1" and 6 mm to 25 mm tube fitting
  1/4" to 1/2" and 6 mm to 12 mm tube socket weld
  1/4" to 1/2" and 6 mm to 12 mm tube butt weld
  1/4 to 1/2 FR fitting



SU Series

- Working pressure up to 2500 psig (172 bar)
- Working temperature from -20°F to 1200°F (-28°C to 649°C)
- Stainless steel body materials
- End connections:
  1/4" to 1/2" and 6 mm to 25 mm tube fitting
  1/4" to 1" and 6 mm to 25 mm tube socket weld
  3/8" to 1" and 6 mm to 25 mm tube butt weld
  1/4 to 1/2 FR fitting



Part Number Description

SWSS – FL8 – ML10 – 5 – WR – BSF2

Series		Body Material		Inlet Type		Inlet Size		Outlet Type	Outlet Size	Orifice Size		Tip Material		Tip Type		Handle		Special Application		Cleaning and Packaging	
SW	SW	SS	316 SS	TS	Fractional Tube Socket Weld	2	1/8"		Same as Inlet	1	0.08" (2.0 mm)		Same as Body Material		Spherical		Green Aluminum Bar		NO		FC-01
SU	SU	6L	316L SS	MTS	Metric Tube Socket Weld	4	1/4"		Specified in the same way as Inlet type and size	2	0.16" (4.1 mm)	K	PCTFE	R	Regulating	B	Black Aluminum Bar	S	NACE MR0175	F2	FC-02
		S4	304 SS	TB	Fractional Tube Butt Weld	6	3/8" or 6 mm			3	0.26" (6.6 mm)	W	Stellite	N	Conical	C	Red Aluminum Bar	N2	Class 2		
		4L	304L SS	MTB	Metric Tube Butt Weld	8	1/2" or 8 mm			4	0.28" (7.1 mm)					J	Blue Aluminum Bar	N3	Class 3		
		S1	321 SS	PS	Pipe Socket Weld	10	10 mm			5	0.3" (7.6 mm)					M	321 Stainless Steel Bar				
		M	Alloy 400	PB	Pipe Butt Weld	12	3/4" or 12 mm			6	0.433" (11 mm)					O	Black Knob				
		B	Brass	FL	Fractional Tube Fitting	16	1" or 16 mm			7	0.630" (16 mm)					T	Toggle handle				
		904L	904L SS	ML	Metric Tube Fitting	18	18 mm														
				UFB	Nut + Gasket + Fractional Bulge Nipple	20	20 mm														
				UMB	Nut + Gasket + Metric Bulge Nipple																
				FFR	Female FR Fitting																
				FR	Male FR Fitting																

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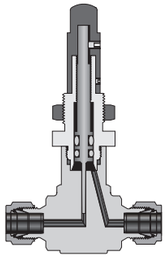
Metering Valves

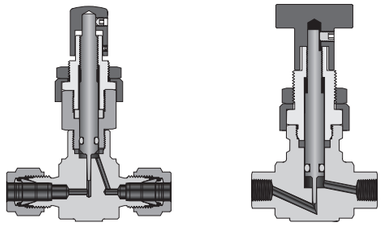
MS Series

- Maximum working pressure: 2000 psig (138 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Orifice size: 0.032" (0.81 mm)
- Flow coefficient (Cv): 0.004
- Stem taper: 1°
- Turns to open: 9 to 12
- Shutoff service: not available
- Panel mountable
- Flow patterns: straight, angle, cross and double
- Handle types: round, vernier, slotted and adjustable-torque
- Variety of materials available for valve body
- End connections:
  1/16" to 1/4" and 3 mm to 6 mm tube fitting
  1/4 male FR Fitting
  1/8 to 1/4 NPT



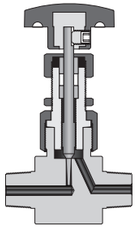
MV and ML Series

- Maximum working pressure: 1000 psig (69 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Flow coefficients (Cv): MV series: 0.03
  ML series: 0.15
- Orifice sizes: MV series: 0.056" (1.42 mm)
  ML series: 0.128" (3.25 mm)
- Stem taper: MV series: 3°
  ML series: 6.5°
- Turns to open: MV series: 8 to 10
- ML series: 10 to 11
- Shutoff service: MV series: not available
- ML series: available
- Panel mountable
- Flow patterns: straight, angle, cross (MV Series) and double (MV Series)
- Handle types: round, vernier, slotted and adjustable-torque
- Variety of materials available for valve body
- End connections:
  1/8" to 1/4" and 3 mm to 8 mm tube fitting
  1/4 male FR Fitting
  1/8 to 1/4 NPT



MH Series

- Maximum working pressure: 5000 psig (345 bar)
- Working temperature: -65°F to 850°F (-54°C to 454°C)
- Orifice size: 0.062" (1.6 mm)
- Flow coefficient (Cv): 0.04
- Stem taper: 2°
- Shutoff service: available
- Variety of end connections
- Turns to open: 9 to10
- Panel mountable
- Flow patterns: straight and angle
- Handle type: round phenolic, vernier
- Variety of materials available for valve body
- End connections:
  1/8" to 1/4" and 3 mm to 8 mm tube fitting
  1/4 male FR Fitting
  1/8 to 1/4 NPT



Part Number Description

MVSS – FL4 – ML6 – EVJ – ASF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Handle Color	Handle Type and Default color	O-Ring Material	Flow Pattern	Special Application	Cleaning and Packaging
MS	SS 316 SS	FNS Female NPT	1 1/16"	Same as inlet	Same as inlet	Default	Round (Black) For MH and ML	Fluorocarbon FKM	Straight	NO	FC-01
MV	6L 316L SS	NS Male NPT	2 1/8"	Specified in the same way as the inlet type and size	Specified in the same way as the inlet type and size	C Red	Knurled (Metallic luster) For MS and MV	B Buna N	A Angle	S NACE MR0175	F2 FC-02
ML	S4 304 SS	FRT Female BSPT	3 3 mm			F Green	L Slotted (Metallic luster)	E Ethylene Propylene	D Double		
MH	4L 304L SS	RT Male BSPT	4 1/4"			J Blue	T Adjustable torque (Metallic luster)	N Neoprene	R Cross		
	S1 321 SS	FMS Female Metric Thread (for RP)	6 3/8" or 6 mm			O Orange	V Vernier (MH Series: Metallic luster) (Other Series: Black)	Z Kalrez			
	B Brass	MS Male Metric Thread (for RG)	8 1/2" or 8 mm			Y Yellow		G Graphite (MH Only)			
	904L 904L SS	FRP Female BSPP (for RP)	10 10 mm								
		BP Male BSPP (for RG)	12 3/4"or 12 mm								
		FL Fractional Tube Fitting									
		ML Metric Tube Fitting									
		FO FO Fitting									
		FR Male FR Fitting									

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Needle Valves

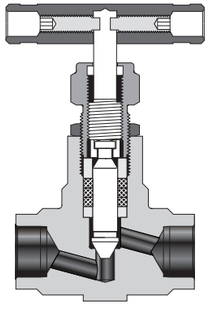
Needle Valves Features

- The nonrotating stem eliminates galling between the seat and tip, and reducing the friction of sealed packing. Effectively improve the service life of the valve and valve packing.
- Intermittent packing system designed to effectively reduce the cold flow of valve packing and the valve operating torque, while use System media for the useful of valve packing.
- Packing mounted on the bottom of the stem transmission thread designed to achieve the isolation of transmission thread lubricating material and system medium to prevent transmission thread lubricating substance contamination of the media on the system.
- Threaded operating torque transmitted using online extrusion and roll forming process, Effectively improve the strength and precision of the threads. To provide strong protection for operating torque for the screw to pass long-term, stable and reliable torque transmission.
- Different body materials and structure selection, a variety of colors and forms of the handle , and optional panel mounting structure to achieve different requirements, different application occasions.
- Valve reference standard: According to ASME B16.34, each valve is tested for strength and leak-tight performance with pure water or nitrogen at max working pressure before delivered out.

Forged Needle Valves

NF, NFH Series

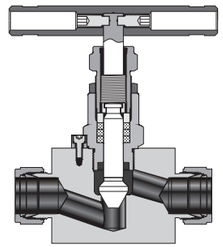
- One-piece forged body.
- Variety valve body material: Carbon steel/A105, 316 SS, 316L SS, 304 SS, 304L SS, 321 SS, Duplex 2205, Alloy 400, Alloy C- 276, and brass, other material please contact with manufacture.
- Orifice (mm): 4, 6.4, 10, 15 and 18. (15 and 18 suitable for NF series only).
- Maximum working pressure: NF Series–41.4 MPa (6000 psig); NFH Series–68.9 MPa (10000 psig).
- Temperature range: -54°C to 649°C (-65°F to 1200°F).
- Sealing face materials: Same as body material, optional stellite available.
- Stem tips type: blunt, ball, regulating, and soft tips (suitable for NF series only).
- End connections type and size:
  1/8" to 1", M10 to M36 thread;
  1/4" to 1", 6 mm to 28 mm tube fitting;
  3/8" to 1", 10 mm to 25 mm weld.



Bar Stock Needle Valves

NB, NBH Series

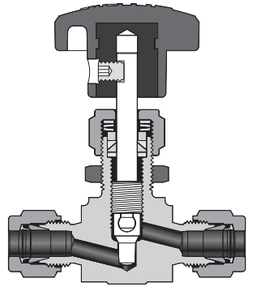
- Cold drawn bar or one-piece forged body.
- Variety valve body material: 316 SS, 316L SS, 304 SS, 304L SS, Duplex 2205, Alloy 400, Alloy C- 276, and brass, other material please contact with manufacture.
- Orifice (mm): 4, 6.4, 10, 15 and 18. (15 and 18 suitable for NB series only).
- Maximum working pressure: NB Series–41.4 MPa (6000 psig); NBH Series–68.9 MPa (10000 psig).
- Temperature range: -54°C to 649°C (-65°F to 1200°F).
- Sealing face materials: Same as body material, optional stellite available.
- Stem tips type: blunt, ball, regulating, and soft tips (suitable for NB series only).
- End connections type and size:
  1/8" to 1", M14 to M27 thread;
  1/4" to 1", 6 mm to 25 mm tube fitting;
  3/8" to 1", 10 mm to 28 mm weld.



General Purpose Needle Valves

NG, NGH Series

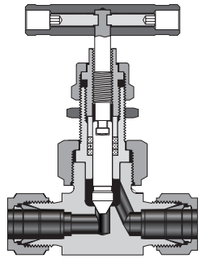
- One-piece forged body.
- Variety valve body material: Carbon steel/A105, 316 SS, 316L SS, 304 SS, 304L SS, Duplex 2205, Alloy 400, Alloy C- 276, and brass, other material please contact with manufacture.
- Orifice (mm): 2, 4, 6.4, 10
- Maximum working pressure: NG Series–20.7 Mpa (3000 psig); NGH Series–34.4 Mpa (5000 psig).
- Temperature range: -54°C to 315°C (-65°F to 600°F);
- Sealing face materials: Same as body material.
- Stem tips type: blunt, ball, regulating, and soft tips.
- End connections type and size:
  1/8" to 3/4", M14 to M27 thread;
  1/4" to 3/4", 6 mm to 25 mm tube fitting.



Union Bonnet Needle Valves

NU, NUH Series

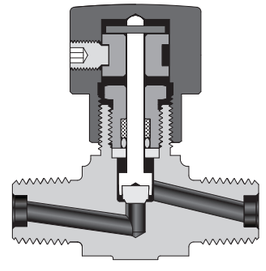
- One-piece forged body.
- Variety valve body material: 316 SS, 316L SS, 304 SS, 304L SS, Duplex 2205, Alloy 400, Alloy C- 276, and brass, other material please contact with manufacture.
- Orifice (mm): 4, 6.4, 10
- Maximum working pressure:
  NU Series–41.4 MPa (6000 psig);
  NUH Series–68.9 MPa (10000 psig).
- Temperature range: -54°C to 649°C (-65°F to 1200°F).
- Sealing face materials: Same as body material, optional stellite available.
- Stem tips type: blunt, ball, regulating, and soft tips (suitable for NU series only).
- End connections type and size:
  1/8" to 1", M14 to M27 thread;
  1/4" to 1", 6 mm to 25 mm tube fitting;
  3/8" to 1", 10 mm to 28 mm weld.



Nonrotating-stem Needle Valves

ND Series

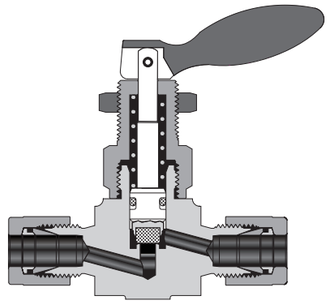
- One-piece forged body.
- Variety valve body material: 316 SS, 316L SS, 304 SS, 304L SS, Alloy 400 and brass, other material please contact with manufacture.
- Orifice (mm): 2, 4, 6.4
- Maximum working pressure: 20.7 Mpa (3000 psig).
- Temperature range: -28°C to 232°C (-20°F to 450°F).
- Designed handle to prevent contaminants from entering into the valve.
- Non-rotating stem, soft stem tip.
- End connections type and size:
  1/8" to 1/2", M10 to M20 thread;
  1/4" to 1/2", 3 mm to 12 mm tube fitting.



Toggle Valves

NT Series

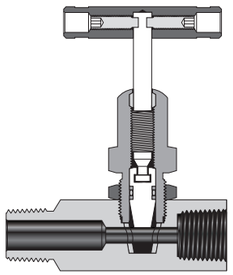
- One-piece forged body.
- Variety valve body material: 316 SS, 316L SS, 304 SS, 304L SS, and brass, other material please contact with manufacture.
- Orifice (mm): 2, 4, 6.4
- Maximum working pressure: 2.07 Mpa (300 psig).
- Temperature range: -54°C to 121°C (-65°F to 250°F).
- Sealing face materials: Same as body material.
- End connections type and size:
  1/8" to 1/2", M10 to M20 thread;
  1/4" to 1/2", 3 mm to 12 mm tube fitting.



Rising Plug Valves

NR, NRG Series

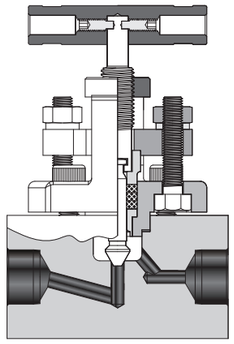
- Cold drawn square bar.
- Variety valve body material: Carbon steel/A105, 316 SS, 316L SS, 304 SS, 304L SS, Duplex, Alloy 400, Alloy C-276, and brass, other material please contact with manufacture.
- Orifice (mm): 4, 6.4
- Maximum working pressure: 41.4 Mpa (6000 psig).
- Temperature range: -28°C to 204°C (-20°F to 400°F).
- Sealing face materials: soft seat design, seat material: Acetal, PEEK, PFA.
- End connections type and size:
  1/8" to 1/2", M14 to M20 thread;
  1/4" to 1/2", 6 mm to 12 mm tube fitting.



OS&Y Structured Needle Valves

NY, NYH Series

- Cold drawn bar or one-piece forged body.
- Variety valve body material: Carbon steel/A105, 316 SS, 316L SS, 304 SS, 304L SS, Duplex, Alloy 400, Alloy C-276, and brass, other material please contact with manufacture.
- Orifice (mm): 4
- Maximum working pressure:
  NY Series–41.4 Mpa (6000 psig);
  NYH Series–68.9 MPa (10000 psig).
- Temperature range: -54°C to 649°C (-65°F to 1200°F).
- Sealing face materials: Same as body material, optional stellite available.
- Externally adjustable gland independent of spindle thread.
- End connections type and size:
  1/4" to 1/2", M10 to M20 thread;
  1/4" to 1/2", 6 mm to 12 mm tube fitting;
  3/8" to 1/2", 10 mm to 20 mm weld.



Part Number Description

NBSS – PB8 – ML12 – 18WR – GYM – A – SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Seat Material	Orifice Size	Tip Material	Tip Type	Packing Material	Panel Mounting	Handle	Flow Pattern	Special Application	Cleaning and Packaging
NF/NFH	SS 316 SS	FNS Female NPT	2 1/8"	Same as Inlet	Same as Inlet	Same as Body	5 0.0787" (2.0 mm)	Same as Body	Blunt	PTFE	No	Black Aluminum Bar	Straight	NO	FC-01
NB/NBH	6L 316L SS	NS Male NPT	4 1/4"	If different specify in the same way as Inlet type and Inlet size		1 Stellite	7 0.157" (4.0 mm)	W Stellite	R Regulating	PEEK	Y Yes	Red Aluminum Bar	A Angle	S NACE MR0175	F2 FC-02
NG/NGH	S4 304 SS	FRT Female BSPT	6 3/8" or 6 mm			Acetal	8 0.2252" (6.4 mm)	D5 Duplex 2205	B Ball	Graphite		Green Aluminum Bar		Classification for Nuclear Facility Application	
NU/NUH	4L 304L SS	RT Male BSPT	8 1/2" or 8 mm			P PEEK	9 0.393" (10 mm)	TI Titanium	T Soft Tip-PTFE	FKM		Blue Aluminum Bar		N2 Class 2	
ND	S1 321 SS	FMS Female Metric Thread (for RP)	10 10 mm			A PFA	6 0.591" (15 mm)	C20 Alloy 20	K Soft Tip-PCTFE	B Buna N		321 Stainless Steel Bar		N3 Class 3	
NT	91 F91	MS Male Metric Thread (for RG)	12 3/4" or 12 mm				0 0.708" (18 mm)	M Alloy 400	P Soft Tip-PEEK	Ethylene Propylene		Black Knob			
NR/NRG	92 F92	FRP Female BSPP (for RP)	14 14 mm or M14 x 1.5					INC Alloy 600	Soft Tip-PCTFE	ND NR/NRG NT Series		Stainless Steel Handle			
NY/NYH	D5 Duplex 2205	BP Male BSPP (for RG)	16 1" or 16 mm					HC Alloy C-276	Soft Tip-PEEK	NF/NFH NB/NBH NG/NGH NU/NUH NY/NYH Series		NG Series			
	TI Titanium	TS Fractional Tube Socket Weld	18 18 mm						ND Series			NT Series			
	C20 Alloy 20	MTS Metric Tube Socket Weld	20 1 1/4" or 20 mm or M20 x 1.5												
	M Alloy 400	TB Fractional Tube Butt Weld	22 22 mm or M22 x 1.5												
	INC Alloy 600	MTB Metric Tube Butt Weld	M24 x 1.5												
	HC Alloy C -276	PS Pipe Socket Weld	25 25 mm												
	B Brass	PB Pipe Butt Weld	27 M27 x 2												
	CS Carbon Steel	FL Fractional Tube Fitting	28 28 mm												
		ML Metric Tube Fitting													
		UMB Nut + Gasket + Metric Bulge Nipple													

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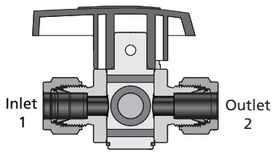
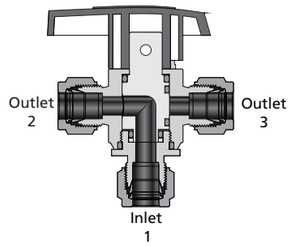
Plug Valves

PV Series

- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Size from 1/8" to 1/2" and 6 to 12 mm
- Orifice sizes: 2.4 mm, 4.4 mm, 7.2 mm
- Body materials: 316 SS, 304 SS, and brass
- Seal materials: Fluorocarbon FKM, Buna N, Ethylene propylene, Neoprene, and Kalrez
- Easy to maintain and clean
- Low operating torque
- Replaceable plug assembly
- Handle as indicator of flow direction
- Handle of different colors available for option
- Positive handle shutoff
- Leak-tight performance testing for every valve with nitrogen at the maximum working pressure





Part Number Description

PVSS – FL8 – ML12 – FL8 – B04GV – 3SF2

Series	Body Material	Inlet 1 Type	Inlet 1 Size	Outlet 2/3 Type	Outlet 2/3 Size	O-ring Material	Orifice	Handle	Downstream Vent	Flow Pattern	Special Application	Cleaning and Packaging
PV	SS 316 SS	FNS Female NPT	2 1/8"		Same as Inlet 1	Fluorocarbon FKM	02 0.093" (2.4 mm)	Black Nylon	NO	2-Way	No	FC-01
	6L 316L SS	NS Male NPT	3 3 mm		Specified in the same way as the inlet 1 type and size	B Buna N	04 0.172" (4.4 mm)	R Red Nylon	V YES	3 3-Way	S NACE MR0175	F2 FC-02
	S4 304 SS	FRT Female BSPT	4 1/4"			E Ethylene Propylene	07 0.283" (7.2 mm)	G Green Nylon				
	B Brass	RT Male BSPT	6 3/8" or 6 mm			N Neoprene		Y Yellow Nylon				
	904L 904L SS	FMS Female Metallic Thread (for RP)	8 1/2" or 8 mm			Z Kalrez		B Blue Nylon				
		MS Male Metallic Thread (for RG)	10 10 mm					A Black Aluminium				
		FRP Female BSPP (for RP)	12 3/4" or 12 mm									
		BP Male BSPP (for RG)										
		FL Fractional Tube Fitting										
		ML Metric Tube Fitting										

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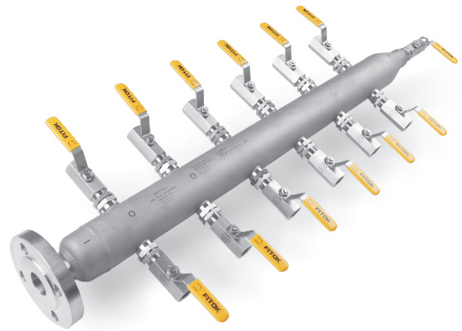
Manifolds

Air Headers and Distribution Manifolds

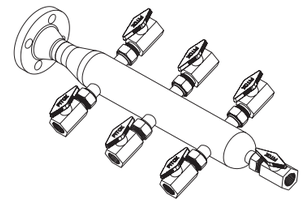
- Distribution lines and drain ports with ball valves, plug valves, and needle valves.
- Red, green, yellow, and blue handles are available.
- Main lines: 3/4" to 2" pipe or equivalent
- Connections:
  Inlet ports: 1" ASME, EN and GB flange
  1" pipe thread
  Outlet ports: 1/4" or 1/2" pipe thread
  1/2" or 12 mm tube fitting
  Drain ports: 1/4" or 1/2" pipe thread
- Quantity of branches: 4 to 48
- Materials: 316 SS, 304 SS, and carbon steel
- Each manifold is hydraulic tested with pure water at 1.5 times the design pressure, and leak - tight tested with nitrogen at the design pressure.



Air Headers

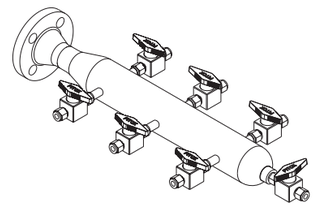
AP Series

- Distribution ports are BR series ball valves.
- The main line is pipe (Sch 40).
- Maximum working pressure: 1000 psig (68.9 bar)
- Working temperature: -15°F to 450°F (-26°C to 232°C)



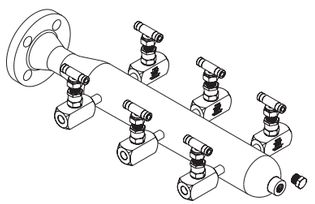
MP Series

- Distribution ports are PV series plug valves.
- The main line is pipe (Sch 80).
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -15°F to 450°F (-26°C to 232°C)



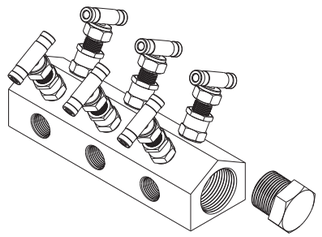
MN Series

- Distribution ports are NB or NF series needle valves.
- The main line is pipe (Sch 160).
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -15°F to 450°F (-26°C to 232°C)



CM Series

- Distribution ports are needle valves.
- The main line is made of pentagon bar.
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -15°F to 1200°F (-26°C to 649°C)



Part Number Description

AP Series

APSS – FNS16Y – 8ML12N – TNS8 – C – SF2

Series	Body Material	Inlet Type	Inlet Size	Inlet Valve	Outlet Quantity	Outlet Type	Outlet Size	Outlet Valve/Plug	Drain	Drain Type	Drain Size	Handle	Special Application	Cleaning and Packaging
AP	SS 316 SS S4 304 SS 904L 904L SS	FNS Female NPT FRT Female BSPT FRP Female BSPP (For RP) PS Pipe Socket Weld PB Pipe Butt Weld AM Class 150 RF Smooth Flange (ANSI B 16.5) AE Class 150 RF Serrated Flange (ANSI B 16.5) DM PN 25 RF Smooth Flange (EN 1092) DE PN 16 RF Serrated Flange (EN 1092) GM PN 16 RF Smooth Flange (GB/T 9115.1) GE PN 20 RF Serrated Flange (GB/T 9115.1) AMT Class 300 RF Smooth Flange (ANSI B 16.5) AET Class 300 RF Serrated Flange (ANSI B 16.5) DMT PN 40 RF Smooth Flange (EN 1092) DET PN 40 RF Serrated Flange (EN 1092) GMT PN 40 RF Smooth Flange (GB/T 9115.1) GET PN 40 RF Serrated Flange (GB/T 9115.1)	12 3/4 16 1 20 DN 20 24 1 1/2 25 DN 25 32 DN 32	No Y Yes	4 6 8 10 12	FNS Female NPT NS Male NPT FRT Female BSPT RT Male BSPT FMS Female ISO (For RP) MS Male ISO (For RG) FRP Female BSPP (For RP) BP Male BSPP (For RG) FL Fractional Tube Fitting ML Metric Tube Fitting UFB Nut+Gasket +Fractional Bulge Nipple UMB Nut+Gasket+Metric Bulge Nipple	8 1/2" or 8 mm 10 M10 × 1 or 10 mm 12 3/4" or 12 mm 14 M14 × 1.5 or 14 mm	Valve P Plug N No	Valve with plug T Male thread N No drain V Valve P Plug	None FNS Female NPT NS Male NPT FRT Female BSPT RT Male BSPT FMS Female ISO (For RP) MS Male ISO (For RG) FRP Female BSPP (For BP) BP Male BSPP (For RG) FL Fractional Tube Fitting ML Metric Tube Fitting	None 8 1/2" or 8 mm 10 M10 × 1 or 10 mm 12 3/4" or 12 mm 14 M14 × 1.5 or 14 mm	Stainless steel with Yellow Vinyl Cover C Stainless Steel with Red Vinyl Cover W Stainless Steel with Blue Vinyl Cover U Black Aluminium NY Black Nyon L Handle Lock	NO S NACE MR0175	FC-01 F2 FC-02

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

MP, MN Series

MNSS – FNS16B – 10FL8B – BFNS8 – C – SF2

Series	Body Material	Inlet Type	Inlet Size	Inlet Valve	Outlet Quantity	Outlet Type	Outlet Size	Outlet Vavle/Plug	Drain Valve/Plug	Drain Type	Drain Size	Handle	Special Application	Cleaning and Packaging
MP MN	SS 316 SS S4 304 SS 904L 904L SS	FNS Female NPT FRT Female BSPT FRP Female BSPP (For RP) PS Pipe Socket Weld PB Pipe Butt Weld AM Class 2500 RF Smooth Flange (ANSI B 16.5) AE Class 2500 RF Serrated Flange (ANSI B 16.5) DM PN 420 RF Smooth Flange (EN 1092) DE PN 420 RF Serrated Flange (EN 1092) GM PN 420 RF Smooth Flange (GB/T 9115.4) GE PN 420 RF Serrated Flange (GB/T 9115.4)	12 3/4 16 1 20 DN 20 24 1 1/2 25 DN 25 32 DN 32	No V PV Series Plug Valve B NB Series Needle Valve F NF Series Needle Valve H BP Series Ball Valve A BV Series Ball Valve S Std. Valve	4 6 8 10 12	FNS Female NPT NS Male NPT FRT Female BSPT RT Male BSPT FMS Female ISO (For RP) MS Male ISO (For RG) FRP Female BSPP (For RP) BP Male BSPP (For RG) FL Fractional Tube Fitting ML Metric Tube Fitting UFB Nut+Gasket+ Fractional Bulge Nipple UMB Nut+Gasket+ Metric Bulge Nipple	8 1/2" or 8 mm 10 M10 × 1 or 10 mm 12 3/4" or 12 mm 14 M14 × 1.5 or 14 mm	No P Plug V PV Series Plug Valve B NB Series Needle Valve F NF Series Needle Valve H BP Series Ball Valve A BV Series Ball Valve S Std. Valve	FNS Female NPT NS Male NPT FRT Female BSPT RT Male BSPT FMS Female ISO (For RP) MS Male ISO (For RG) FRP Female BSPP (For RP) BP Male BSPP (For RG) FL Fractional Tube Fitting ML Metric Tube Fitting UFB Nut+Gasket+ Fractional Bulge Nipple UMB Nut+Gasket+ Metric Bulge Nipple	None 8 1/2" or 8 mm 10 M10 × 1 or 10 mm 12 3/4" or 12 mm 14 M14 × 1.5 or 14 mm	Black Aluminum Bar C Red Aluminum Bar F Green Aluminum Bar J Blue Aluminum Bar M 321 Stainless Steel Bar	NO S NACE MR0175	FC-01 F2 FC-02

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

CMSS – FNS16P – 8FNS12 – C – SF2

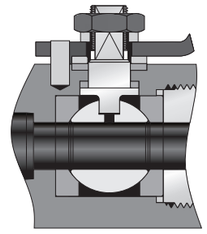
Series	Body Material	Inlet Type	Inlet Size	Outlet Valve/Plug	Outlet Quantity	Outlet Type	Outlet Size	Handle	Special Application	Cleaning and Packaging
CM	SS 316 SS	FNS Female NPT	8 1/2	Needle Valve	4	FNS Female NPT	4 1/4"	Black Aluminum Bar	NO	FC-01
	S4 304 SS	FRT Female BSPT	12 3/4	P Plug	6	FRT Female BSPT	6 3/8" or M6 × 1	C Red Aluminum Bar	S NACE MR0175	F2 FC-02
	904L 904L SS	FMS Female ISO (For RP)	16 1		8	FMS Female ISO (For RP)	8 1/2"	F Green Aluminum Bar		
		FRP Female BSPP (For RP)			10	FRP Female BSPP (For RP)	10 M101 × 1	J Blue Aluminum Bar		
		PS Pipe Socket Weld			12	PS Pipe Socket Weld	12 3/4" or M12 × 1.5	M 321 Stainless Steel Bar		
		PB Pipe Butt Weld			· · · · ·		14 M14 × 1.5			

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

Block and Bleed Valves

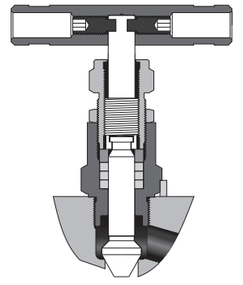
Element Features

Ball Valves



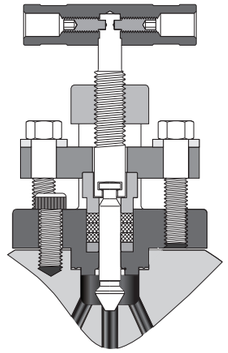
- Maximum working pressure: 10000 psig (689 bar)
- Working temperature:
  PTFE: -65°F to 450°F (-54°C to 232°C)
  PEEK: -65°F to 450°F (-54°C to 232°C)
- Bottom-loaded stem prevents stem blowout and enhances system safety.
- High-strength stem bearings provide smooth actuation and eliminate galling between the valve stem and body.
- FITOK ball valves are designed to be operated in a fully open or fully closed position.
- All designs are tested for strength with pure water at 1.5 times the working pressure. Every valve is tested for leak-tight performance with nitrogen at 6000 psig or its maximum working pressure if less than 6000 psig.

Needle Valves



- Maximum working pressure: 10 000 psig (689 bar)
- Working temperature:
  PTFE: -65°F to 450°F (-54°C to 232°C)
  Graphite: -65°F to 1200°F (-54°C to 649°C)
- Two stems design. The upper stem has hardened threads, the lower stem has hardened smooth surface.
- Upper stem thread lubricant is isolated from system media.
- The lower stem performs vertical linear movement instead of screwing movement, significantly reducing the friction area.
- The nonrotating lower stem eliminates galling between the seat and tip.
- Stem back seating seals in the fully open position
- Double lock-pins enable steady and durable fastening of the handle.
- All designs are tested for strength with pure water at 1.5 times the working pressure. Every valve is tested for leak-tight performance with nitrogen at 6000 psig or its maximum working pressure if less than 6000 psig.

OS & Y Needle Valves

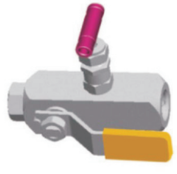
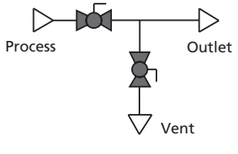
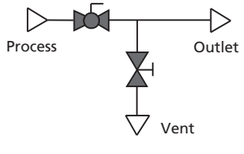
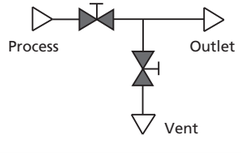


- Externally adjustable gland independent of spindle thread
- Maximum working pressure: 10 000 psig (689 bar)
- Working temperature:
  PTFE: -65°F to 450°F (-54°C to 232°C)
  Graphite: -65°F to 1200°F (-54°C to 649°C)
- Hardened stem threads prevent galling.
- Stem threads are completely isolated from system media.
- Bolted bonnet design improves strength and reliability.
- The nonrotating stem provides repetitive shutoff.
- Back seat construction provides secondary stem sealing and prevents stem blowout.
- Flange-type gland allows replacing and adjusting packing inline.
- Double lock-pins ensure steady and durable fastening of the handle.
- All designs are tested for strength with pure water at 1.5 times the working pressure. Every valve is tested for leak-tight performance with nitrogen at 6000 psig or its maximum working pressure if less than 6000 psig.

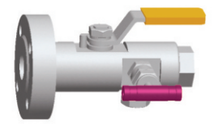
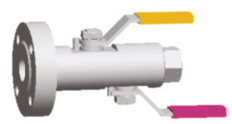
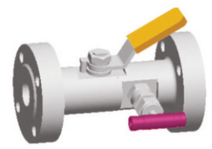
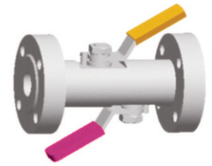
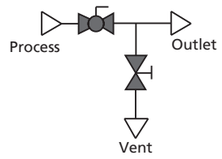
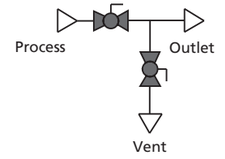
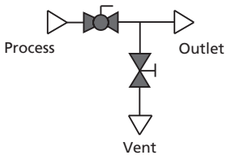
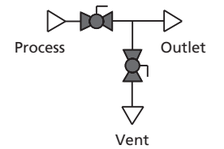
Handle colors indicate functions:
Needle and OS & Y valves: **Black** = Isolate/Block **Red** =Vent/Bleed
Ball valves: **Yellow**=Isolate/Block **Red** =Vent/Bleed

Single Block and Bleed Valves - BB Series

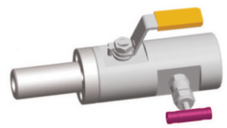
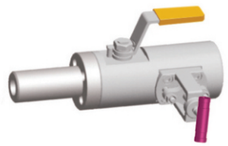
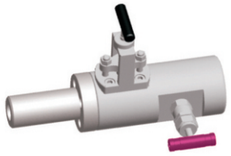
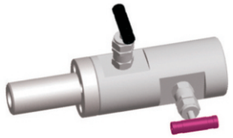
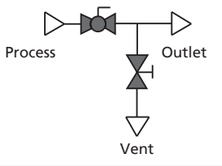
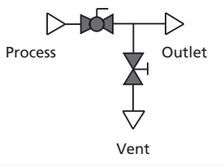
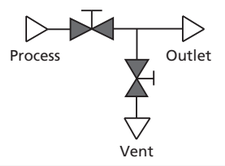
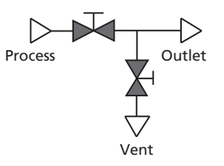
Instrument Single Block and Bleed Valves

BB□□-BB-FNS8-C	BB□□-BN-FNS8-V	BB□□-NN-NS8-FNS8-H
		
		

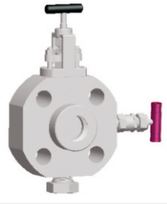
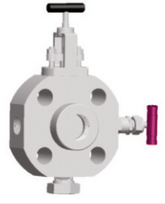
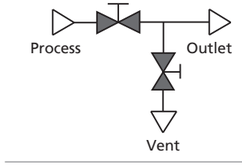
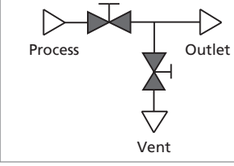
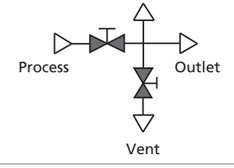
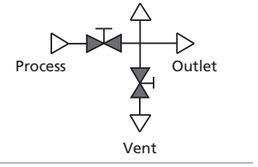
Flange Single Block and Bleed Valves

BB□□-BN-FM8300-FNS8-V8	BB□□-BB-FM8300-FNS8-V8	BB□□-BN-FM8300-V8	BB□□-BB-FM8300-V8
			
			

Root Single Block and Bleed Valves

BB□□-BN-RV8-FNS8-V8	BB□□-BO-RV8-FNS8-V8	BB□□-ON-RV8-FNS8-V8	BB□□-NN-RV8-FNS8-V8
			
			

Monoflange Single Block and Bleed Valves

BB□□-ON-MM16600-FNS8-V4	BB□□-NN-MM16600-FNS8-V4	BB□□-ON-MM16600-FNS8-2V4	BB□□-NN-MM16600-FNS8-2V4
			
			

Double Block Valves - DB Series

Monoflange Double Block Valves

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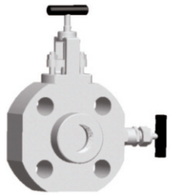	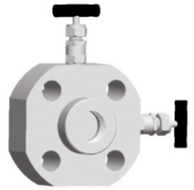
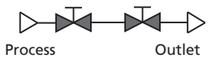	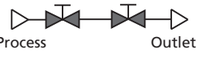

Single Block Valves - SB Series

Monoflange Single Block Valves

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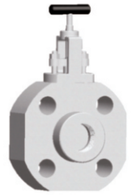	
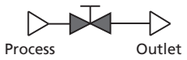	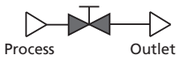

Double Block and Bleed Valves - DBB Series

Instrument Double Block and Bleed Valves

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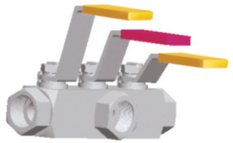
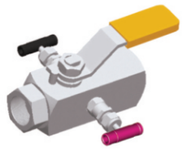
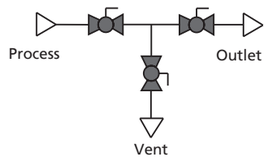
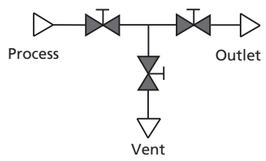
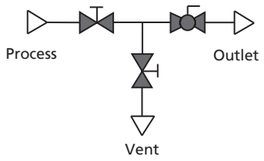
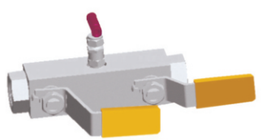
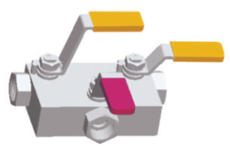
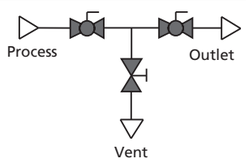
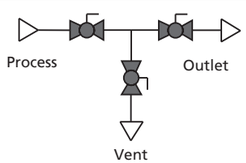
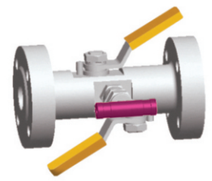
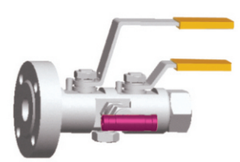
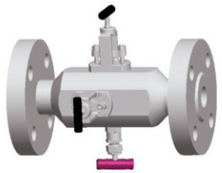
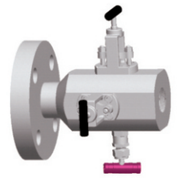
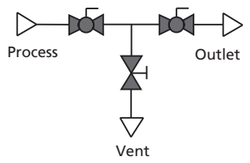
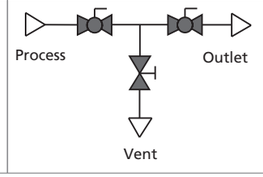
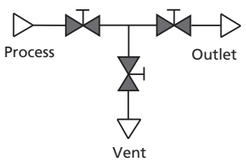
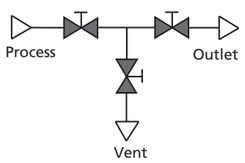
		
		

DBB□□-BBN-FNS8-V4-V	DBB□□-BBB-FNS8-V4-C
	
	

Flange Double Block and Bleed Valves

DBB□□-BBN-FM8600-V4	DBB□□-BBN-FM8600-FNS8-V4	DBB□□-OON-FM8600-V4	DBB□□-OON-FM8600-FNS8-V4
			
			

Large-Bore Bolted Double Block and Bleed Valves

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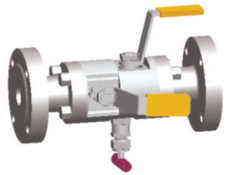
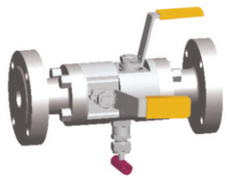
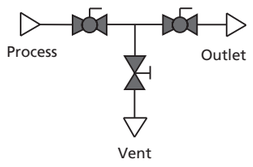
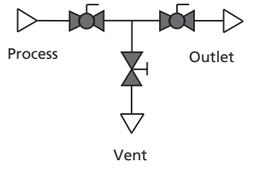
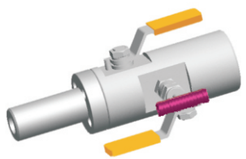
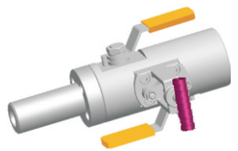
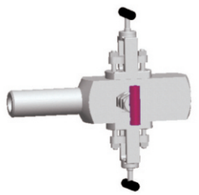
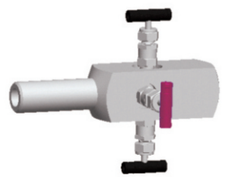
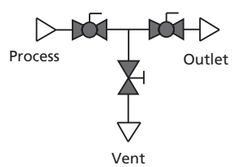
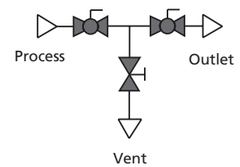
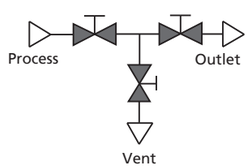
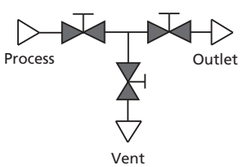
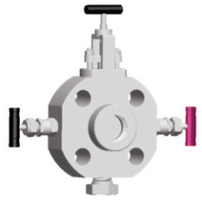
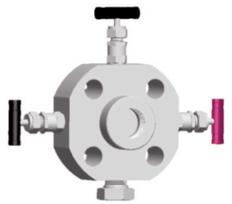
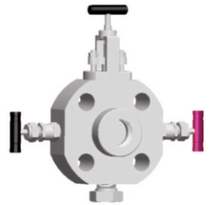
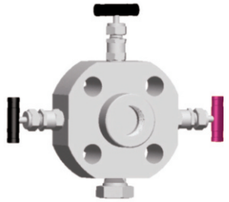
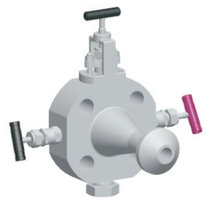
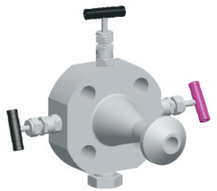
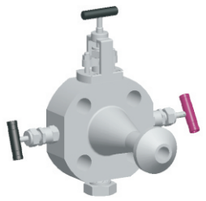
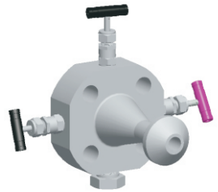
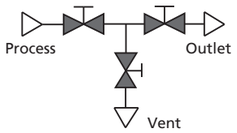
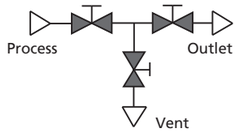
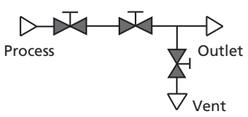
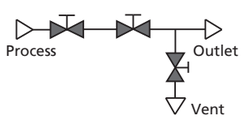
	
	

Root Double Block and Bleed Valves

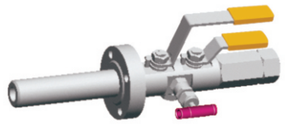
DBB□□-BBN-RV8-FNS8-V8	DBB□□-BBO-RV8-FNS8-V8	DBB□□-OON-RV8-FNS8-V8	DBB□□-NNN-RV8-FNS8-V8
			
			

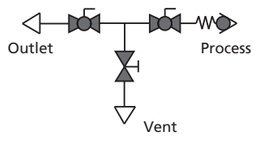
Monoflange Double Block and Bleed Valves

DBB□□-ONN-MM8600-FNS8-V4	DBB□□-NNN-MM8600-FNS8-V4	DBB□□-ONN-MM8600-FNS8-V4-X	DBB□□-NNN-MM8600-FNS8-V4-X
			
DBB□□-ONN-MM8600-BWE8-V4	DBB□□-NNN-MM8600-BWE8-V4	DBB□□-ONN-MM8600-BWE8-V4-X	DBB□□-NNN-MM8600-BWE8-V4-X
			
			

Injection Double Block and Bleed Valves

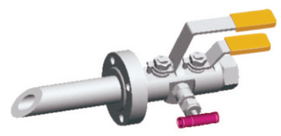
DBB□□-BBN-FMS8-FE8150-IN

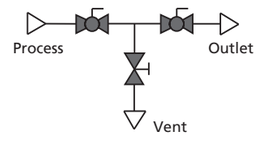




Sampling Double Block and Bleed Valves

DBB□□-BBN-FMS8-FE8150-SA





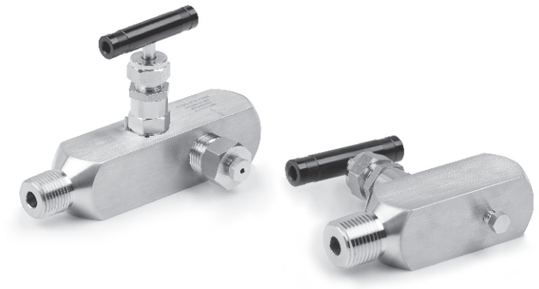
Part Number Description

DBBSS – BBO1 – FE16300 – FNS8 – 2V8 – RPSF2

Series	Body Material	Configuration	Options of Ball Valve Bore	Inlet Type	Inlet Size	Outlet Type	Outlet Size	ANSI Class	Vent Number	Vent Type and Size	Body Style/Function	Packing/Sealing Material	Special Application	Cleaning and Packaging
BB Single Block and Bleed	SS 316 SS	NNN Needle / Needle / Needle	(blank) No ball valves configuration	FNS Female NPT	4 1/4"	(blank) Same as inlet	150 Class 150	1 One Vent	V4 1/4 Female NPT with plug	(blank) Flange and Root pattern	(blank) NO	(blank) FC-01
DB Double Block	6L 316L SS	NBN Needle / Ball / Needle	1 Bore size is Std. 9.5 mm	NS Male NPT	6 3/8" or 6 mm	4 Specified in the same way as the inlet type and size	300 Class 300	2 Two Vents	V8 1/2 Female NPT with plug	C Compact pattern	S NACE MR0175	F2 FC-02
SB Single Block	CS Carbon Steel	BBN Ball / Ball / Needle	2 Bore size is Std. 14 mm	FRT Female BSPT	8 1/2" or 8 mm	6	600 Class 600			L Valves in-line mounted		
DBB Double Block and Bleed	D5 Duplex 2205	BBB Ball / Ball / Ball		RT Male BSPT	10 10 mm	8	900 Class 900			V Valves vertically mounted		
	904L 904L SS	OON OS&Y / OS&Y / Needle		ML Metric Tube Fitting	12 3/4" or 12 mm	10	1500 Class 1500			H Valves horizontally mounted		
		BBO Ball / Ball / OS&Y		FL Fractional Tube Fitting	14 14 mm	12	2500 Class 2500			F Full-bore three piece bolted mounted		
		ONN OS&Y / Needle / Needle		FMS Female ISO	16 1" or 16 mm	14				R Reduced-bore three piece bolted mounted		
		BB Ball / — / Ball		MS Male ISO	20 1 1/4" or M20 x 1.5	16				X Block/Block/Bleed		
		NN Needle / — / Needle		UMB Nut+Gasket+Metric Bulge Nipple	24 1 1/2"	20				SA Sampling application		
		BN Ball / — / Needle		FM RF Smooth Flange (3.2 to 6.3 µm)	32 2"	24				IN Injection application		
		BO Ball / — / OS&Y		FE RF Serrated Flange (6.3 to 12.5 µm)		32						
		ON OS&Y / — / Needle		FJ RTJ Flange								
		OS&Y / Needle / —		MM RF Smooth Monoflange (3.2 to 6.3 µm)								
		O OS&Y / — / —		ME RF Serrated Monoflange (6.3 to 12.5 µm)								
		N Needle / — / —		MJ RTJ Monoflange								
				RV Root Valve Plain End								

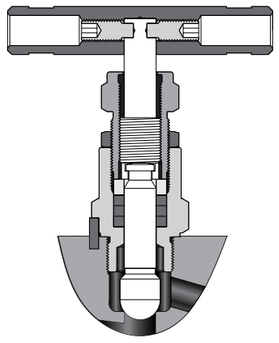
Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

Gauge Valves

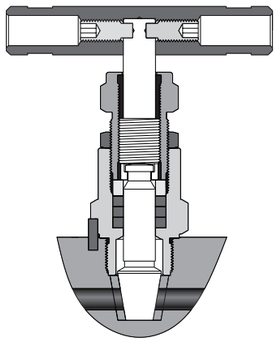


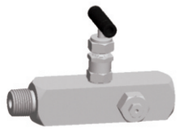
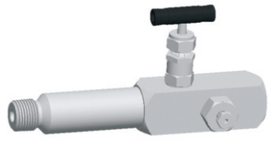
- Maximum working pressure:
  Stainless steel: 6000 psig (414 bar)
  Alloy 400: 5000 psig (345 bar)
- GV series Working temperature:
  PTFE: -65°F to 450°F (-54°C to 232°C)
  Graphite: -65°F to 1200°F (-54°C to 649°C)
- GR series working temperature:
  Acetal seat: -20°F to 250°F (-28°C to 121°C)
  PEEK seat: -20°F to 400°F (-28°C to 204°C)
  PFA seat: -20°F to 400°F (-28°C to 204°C)
- Non-rotating lower stem, ball and plug tip designs
- Wide variety of seat and seal materials
- Stem back seating seals in the fully open position
- Rolled spindle operating threads
- Stem thread lubricant is isolated from the medium.
- Externally adjustable gland
- Optional handle colors are available.
- Two handle pins make the handle fixed firmly and lasting.
- All designs are tested for strength with pure water at 1.5 times the working pressure. Every valve is tested with nitrogen for leak-tight performance at 6000 psig or its maximum working pressure if less than 6000 psig.

Ball Tip Design Valves (GV)



Plug Tip Design Valves (GR)



GV□□-NS8-FNS8 GR□□-NS8-FNS8	GV□□-NS8-FNS8-E GR□□-NS8-FNS8-E	GV□□-NS8-FNS8-C GR□□-NS8-FNS8-C
		

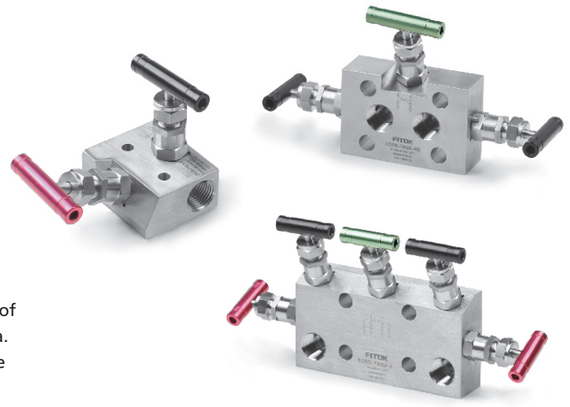
Part Number Description

GRSS – NS8 – FNS8 – CPW – GR – SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Body Style	Seal Material	Tip Material	Packing Material	Handle	Special Application	Cleaning and Packaging
GV Ball Tip Design	SS 316 SS	FNS Female NPT	8 1/2"		Same as Inlet	Standard Type		Same as Body	PTFE	Black Aluminum Bar	NO	FC-01
GR Plug Tip Design	6L 316L SS	NS Male NPT	12 3/4"		Specify in the same way as inlet type and size	C Miniature Type	1 Stellite	W Stellite	G Graphite	R Red Aluminum Bar	S NACE MR0175	F2 FC-02
	S4 304 SS	FRT Female BSPT	20 M20 x 1.5			E Extended Type	Acetal	D5 Duplex 2205	GV Series	M 321 Stainless Steel Bar		
	4L 304L SS	RT Male BSPT					P PEEK	TI Titanium Gr.4	PTFE	O Black Knob		
	S1 321 SS	FMS Female ISO (for RP)					F PFA	A20 Alloy 20	GR Series			
	D5 Duplex 2205	MS Male ISO (for RG)						INC Alloy 600	PTFE			
	TI Titanium Gr.4	FRP Female BSPP (for RP)						HC Alloy C-276				
	A20 Alloy 20											
	M Alloy 400											
	INC Alloy 600											
	HC Alloy C-276											
	B Brass											
	CS Carbon Steel											
	904L 904L SS											

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

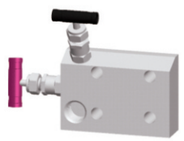
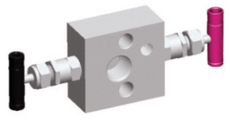
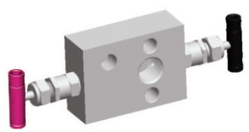
Instrument Manifolds

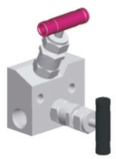
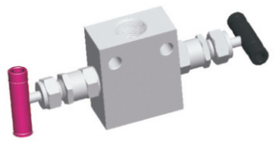


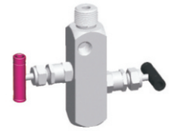
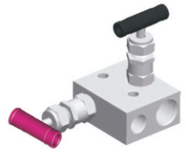
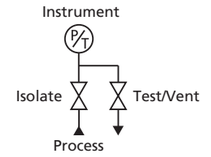
- Maximum working pressure:
  Stainless steel: 6000 psig (414 bar)
  Alloy C-276: 6000 psig (414 bar)
  Alloy 400: 5000 psig (345 bar)
- Working temperature:
  PTFE: -65°F to 450°F (-54°C to 232°C)
  Graphite: -65°F to 1200°F (-54°C to 649°C)
- Orifice: 0.157" (4.0 mm); Cv: 0.35
- Two stems design: The upper stem has hardened threads, the lower stem has hardened smooth surface.
- Upper stem thread lubricant is isolated from system media.
- The lower stem performs vertical linear movement instead of screwing movement, significantly reducing the friction area.
- The nonrotating lower stem eliminates galling between the seat and tip.
- Stem back seating seals in the fully open position.
- Double lock-pins enable steady and durable fastening of the handle.
- All designs are tested for strength with pure water at 1.5 times the working pressure. Every valve is tested with nitrogen for leak-tight performance at 6000 psig or its maximum working pressure if less than 6000 psig.

Handle colors indicate functions:
Black=Isolate/Block **Red**=Test/Vent **Green**=Equalize

2-Valve Manifolds

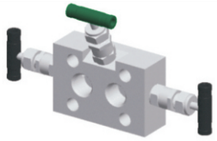
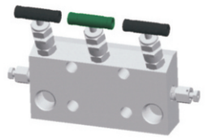
2D□□-FNS8-A	2D□□-FNS8-L	2D□□-FNS8-H
		

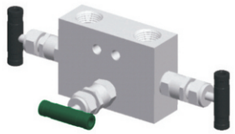
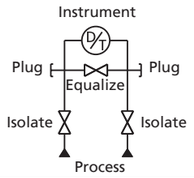
2R□□-FNS4-A	2R□□-FNS4-C	2R□□-FNS8-L
		

2R□□-FNS8-NS8-H	2R□□-FNS8-V	Flow Diagram
		

◎ The standard configuration of direct mount manifolds contain PTFE flange seal ring and 7/16-20 UNF × 1.75" high tensile bolts.

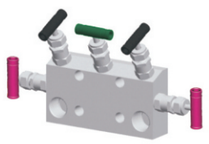
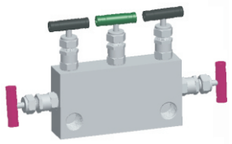
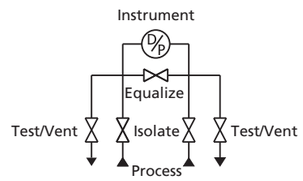
3-Valve Manifolds

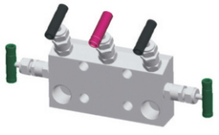
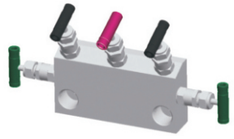
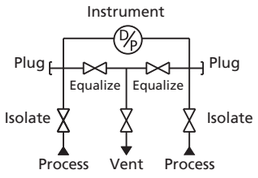
3D□□-FNS8-A	3D□□-FNS8-L-T
	

3R□□-FNS8-V	Flow Diagram
	

◎ The standard configuration of direct mount manifolds contain PTFE flange seal ring and 7/16-20 UNF × 1.75" high tensile bolts.

5-Valve Manifolds

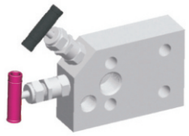
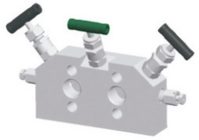
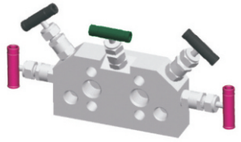
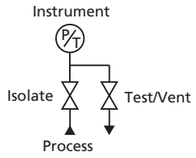
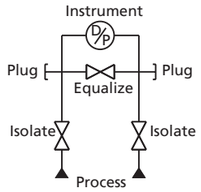
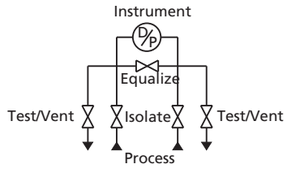
5D□□-FNS8-A	5R□□-FNS8-L	Flow Diagram
		

5D□□-FNS8-B	5R□□-FNS8-B	Flow Diagram
		

◎ The standard configuration of direct mount manifolds contain PTFE flange seal ring and 7/16-20 UNF × 1.75" high tensile bolts.

Instrumentation Integral Manifolds

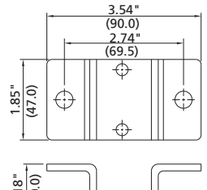
◎ This section is presently characterized by manifolds designed specifically for Rosemount® coplanar™ pressure transmitters including the model 3051C, model 3051P, model 2024 and the model 3095.

2D□□-FNS8-C	3D□□-FNS8-C	5D□□-FNS8-C
		
		

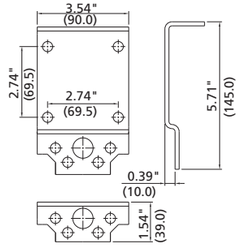
◎ The standard configuration of direct mount manifolds contain PTFE flange seal ring and 7/16-20 UNF × 1.75" high tensile bolts.

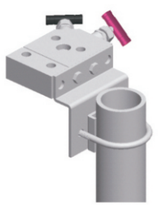
Manifold Mounting Brackets

SS-M2P-2BK

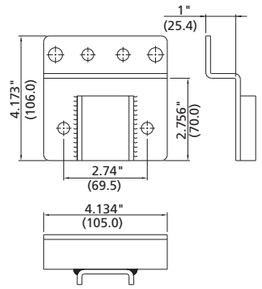


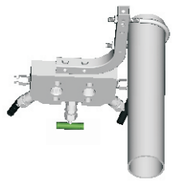
SS-M2P-4BK



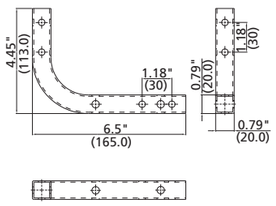


SS-M2P-6BK



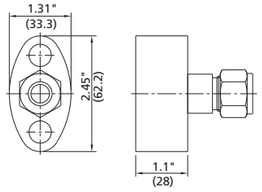


SS-M2P-8BK

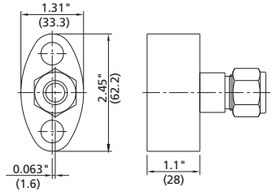


Kidney and Eccentric Flanges

Kidney Flange



Eccentric Flange



The auxiliary installation for FITOK manifolds and transmitters of different brands

Model of Transmitters \ Model of FITOK Manifolds	3(5)DXX-XX-X	3(5)RXX-FXXX-X	2DXX-XXX-X	2RXX-FXXX-X
Rosemount Transmitters				
3051 CD X X 2 (3、4、5、7、8) X X X X	A4			
3051 CD X X 0 X X X X H2 (H3、H4、H7、HJ)	A1			
3051 CD X X 0 X X X X HK	A2			
3051 CD X X 0 X X X X HL	A3			
3051 CD X X X X X X X DF	A5	A		
3051 CG (CA) X X 2 (3 4 5 7 8) X X X X			A4	
3051 CG (CA) X X 0 X X X X H2 (H3 H4 H7 HJ)			A1	
3051 CG (CA) X X 0 X X X X HK			A2	
3051 CG (CA) X X 0 X X X X HL			A3	
3051 CG (CA) X X X X X X X DF			A5	A
1151 D (H) P 3 (4、5) X XX XX	A1			
1151 A (G) P 3 (4 5) X XX XX			A1	
1151 D (H) P X X XX XX DF	A5	A		
EJA Transmitters				
EJA1X0A-XXX0 (5) X-XXXX	A1			
EJA1X0A-XXX1 (2、3、4) X-XXXX	A5	A		
EJA3 (4、5) X0A-XXX0 (5) X-XXXX			A1	
EJA3 (4 5) X0A-XXX1 (2 3 4) X-XXXX			A5	A
Honeywelly Transmitters				
STDXXX-XXA-XXX	A1			
STDXXX-XXH-XXX	A5	A		
STXXXX-XXG-XXX			A5	A
STGXXX-XXA-XXX			A1	
SMXXXX-XXA-XXX	A1			
SMXXXX-XXH-XXX	A5	A		
SIEMENS Transmitters				
7MF433X-XXX0 (4) X-XXXX			A2	A
7MF433X-XXX2 (6) X-XXXX			A1	A
7MF44 (5) 3X-XXX0 (4) X-XXXX	A2			
7MF44 (5) 3X-XXX2 (3、6、7) X-XXXX	A1			
7MF44 (5) 3X-XXX1 (5) X-XXXX	A3			

Remark:
A: Connecting with fittings
A1: Connecting with flange and sealing rings, using 7/16 - 20 x 1.75" bolts
A2: Connecting with flange and sealing rings, using M10 x 40 mm bolts
A3: Connecting with flange and sealing rings, using M12 x 40 mm bolts
A4: Connecting with flange and sealing rings, using 7/16 - 20 x 3" bolts
A5: Remove the kidney flanges and then connect with flange and sealing rings

Part Number Description

3DSS – FNS8 – LG – TY1S – SF2

Manifold Series	Mount Type	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Body Style	Packing Sealing Material	Test Ports & Plugs	Mounting Bracket	For direct mount only: Flange Fasteners	For direct mount only: Bolt Material	For direct mount only: Flange Outlet Centerline	Special Application	Cleaning and Packaging
2 2-valve	D Direct Mount	SS 316 SS	FNS Female NPT	4 1/4"	D type: Flanged		A Angle Pattern		No	NO	7/16 - 20 UNF x 1.75"	Zinc Plated Carbon Steel	2.125" (54 mm)	NO	FC-01
3 3-valve	R Remote Mount	6L 316L SS	FRT Female BSPT	6 3/8" or 6 mm	R type: Same as Inlet		B Double equalize Function	PTFE	T 1/4 Female NPT with Relief Valve	Y Yes	1 7/16 - 20 UNF x 3"	M 316 SS	2.188" (55.6 mm)	S NACE MR0175	F2 FC-02
5 5-valve		S4 304 SS	ML Metric Tube Fitting	8 1/2" or 8 mm	Specified in the same way as the inlet type and size		C Compact Pattern	G Graphite	P 1/4 Female NPT with Plug		2 M10 x 40 mm		2.250" (57.2 mm)		
		4L 304L SS	FL Fractional Tube Fitting	10 10 mm			L Valves In-Line Mounted				3 M12 x 40 mm				
		S1 321 SS	FMS Female Metric Thread (for RP)	12 3/4" or 12 mm			H Valves Horizontally Mounted								
		D5 Duplex 2205	UMB Nut+Gasket +Metric Bulge Nipple	14 14 mm			V Valves Vertically Mounted								
		TI Titanium Gr.4	F Flanged	16 16 mm											
		A20 Alloy 20		20 M20 x 1.5											
		M Alloy 400													
		INC Alloy 600													
		HC Alloy C-276													
		B Brass													
		CS Carbon Steel													
		904L 904L SS													

Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

Filters

Tee-type Filters

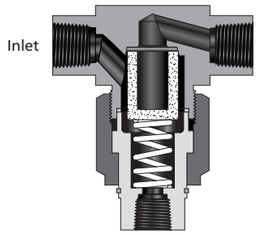
FT Series

- Filter element replaceable without removing body from system
- Union bonnet design
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- Nominal pore sizes for strainer element: 100, 150, 250 and 450 μm
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -20°F to 900°F (-29°C to 482°C)
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 904L, and Brass
- Variety of end connections available

Bypass Filters

FB Series

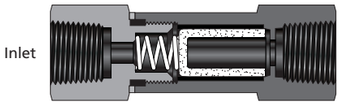
- Bypass port at filter bottom for the ease of sampling or purging
- Union bonnet design
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- Nominal pore sizes for strainer element: 100, 150, 250 and 450 μm
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -20°F to 900°F (-29°C to 482°C)
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 904L, and Brass
- Variety of end connections available



In-line Filters

FI Series

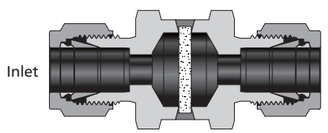
- Compact and space-saving design
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- Nominal pore sizes for strainer element: 100, 150, 250 and 450 μm
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -20°F to 900°F (-29°C to 482°C)
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 321 SS, 904L, and Brass
- Variety of end connections available



All-welded In-line Filters

FW Series

- Large filtration area and high flow coefficient
- All-welded construction for elimination of leakage
- Easy cleaning of filters by backflushing
- Full-penetration weld between body and element
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 μm
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -20°F to 900°F (-29°C to 482°C)
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, and 904L
- Variety of end connections available



Filters Part Number Description

FBSS – FL8 – ML10 – S – P150 – FL4SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Element Type	Gasket Material	Element Nominal Pore Size	Bypass Port (for FB Series Only)	Special Application	Cleaning and Packaging
FT	SS 316 SS	FNS Female NPT	2 1/8"		Same as Inlet	Sintered	Silver-plated 316 SS for FT, FB, FI	05 0.5 μm	1/8 Female NPT	NO	FC-01
FB	6L 316L SS	NS Male NPT	4 1/4"	S	Specified in the same way as the inlet type and size	S Strainer	P PTFE-plated 316 SS for FT, FB, FI	2 2 μm	FL2 1/8" Fractional Tube Fitting	S NACE MR0175	F2 FC-02
FI	S4 304 SS	FRT Female BSPT	6 3/8" or 6 mm				A Aluminum for FT, FB, FI	7 7 μm	FL4 1/4" Fractional Tube Fitting		
FW	4L 304L SS	RT Male BSPT	8 1/2" or 8 mm					15 15 μm	TS4 1/4" Tube Socket Weld		
	S1 321 SS	FMS Female Metric Thread (for RP)	10 10 mm					40 40 μm	FL6 3/8" Fractional Tube Fitting		
	B Brass	MS Male Metric Thread (for RG)	12 3/4" or 12 mm					60 60 μm	FL8 1/2" Fractional Tube Fitting		
	904L 904L SS	FRP Female BSPP (for RP)	14 14 mm or M14 x 1.5					80 80 μm			
		BP Male BSPP (for RG)	16 1" or 16 mm					100 100 μm			
		FL Fractional Tube Fitting	18 18 mm					150 150 μm			
		ML Metric Tube Fitting	20 1 1/4" or 20 mm or M20 x 1.5					250 250 μm			
		TS Fractional Tube Socket Weld	22 22 mm or M22 x 1.5					450 450 μm			
		TB Fractional Tube Butt Weld	25 25 mm								
		FR Male FR Fitting									

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Hoses and Connectors

Metal Flexible Hose Assemblies

MH, MM Series

- Core tube and fitting material: 316 stainless steel
- Overbraid material: 304 stainless steel
- Maximum working pressure: 3100 psig (213 bar)
- Hose sizes: 1/4" to 2"
- Temperature range: -325°F to 800°F (-200°C to 426°C)
- End connections:
  1/4" to 1" thread
  1/4" to 1" and 6 mm to 22 mm tube fitting
- Welded fitting-to-hose construction to ensure reliable seal
- Standard and custom-length available

PTFE-lined, Stainless Steel Braided Hose Assemblies

PS, PLS Series

- Lightweight construction for easy handling and installation
- Core tube material: smooth virgin PTFE
- Overbraid material: 304 stainless steel
- Maximum working pressure: 3000 psig (206 bar)
- Hose sizes: 1/4" to 1"
- Temperature range: -65°F to 450°F (-53°C to 230°C)
- End connections:
  1/8" to 1" thread
  1/8" to 1" and 6 mm to 22 mm tube fitting
- Standard and custom-length available

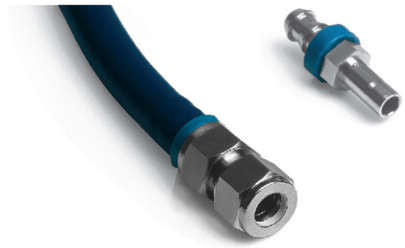
Thermoplastic Hose Assemblies

TH Series

- Cover: polyurethane for resistance to oil, weather, and abrasion
- Reinforcement: double-braid high-strength synthetic fiber
- Core tube: nylon
- Maximum working pressure: 5000 psig (345 bar)
- Hose sizes: 3/16" to 1"
- Temperature range: -40°F to 200°F (-40°C to 93°C)
- End connections:
  1/4" to 1" thread
  1/4" to 1" and 6 mm to 22 mm tube fitting
- End connection materials: stainless steel, brass, and carbon steel
- Standard and custom-length available

Multipurpose Push-on Hose Assemblies

MP Series



- Cover: weather-, abrasion-, and oil-resistant synthetic rubber
- Reinforcement: single-braid high-strength synthetic fiber woven for maximum strength and end connection retention
- Core tube: highly oil-resistant rubber
- Hose colors: blue, black, green, gray, red, and yellow
- Maximum working pressure: 300 psig (20.6 bar)
- Hose sizes: 1/4" to 3/4"
- Temperature range: -40°F to 200°F (-40°C to 93°C)
- End connections:
  1/4" to 3/4" thread
  1/4" to 3/4" and 6 mm to 18 mm tube fitting
- End connection materials: stainless steel and brass
- End connections reusable
- Standard and custom-length assemblies

Hose Part Number Description

MP – 4 – F36 – BK

Hose Series	Nominal Hose Size	Overall Length	Hose Color
MP	4 1/4" (6.4mm) 6 3/8" (9.5 mm) 8 1/2" (12.7 mm) 12 3/4" (19.0 mm)	FXX XX in. MXX XX mm	Blue BK Black RD Red GR Green GY Gray YW Yellow

Example: **MP-8-F60-BK**
MP: Hose series
8: Hose size is 1/2".
F60: Overall length is 60".
BK: Hose color is black.

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Part Number Description

SS – MH4 – ML10 – NS4 – F36 – BK – PF2

End Connection Material		Hose Series		Hose ID		End Connection 1 Type		End Connection 1 Size		End Connection 2 Type and Size		Overall Length		Hose Color Only MP Series		Option Only PL,PLS Series		Cleaning and Packaging Only PL,PLS Series	
SS	316 SS	MH		4	1/4" (6.4 mm)	FNS	Female NPT	4	1/4"		Same as End 1	FXX	XX in.		Blue	P	Clear PVC Cover		FC-01
S1	321 SS	MM		6	3/8" (9.5 mm)	NS	Male NPT	6	3/8" or 6 mm		Specify in the same way as End Connection 1 Type and Size	MXX	XX mm	BK	Black	S	302 Stainless Steel Spring Guard	F2	FC-02
S4	304 SS	PS		8	1/2" (12.7 mm)	FRT	Female BSPT	8	1/2" or 8 mm					RD	Red				
A20	Alloy 20	PLS		12	3/4" (19.1 mm)	RT	Male BSPT	10	5/8" or 10 mm					GR	Green				
INC	Alloy 600	MP		16	1" (25.4 mm)	FMS	Female Metric Thread (for RG gasket)	12	3/4" or 12 mm					GY	Gray				
HC	Alloy C-276	TH				MS	Male Metric Thread (for RG gasket)	14	M14 x 1.5					YW	Yellow				
TI	Titanium					FL	Fractional Tube Fitting	16	1" or 16 mm										
						ML	Metric Tube Fitting	18	M18 x 1.5										
						FT	Fractional Tube Adapter	20	M20 x 1.5										
						MT	Metric Tube Adapter												
						AN	Male JIC 37° Flare												
						SAN	Female JIC 37° Flare Swivel												
						SMS	Female Metric Thread Swivel (for MRG)												
						SNS	Male NPT Swivel												
						SRT	Male BSPT Swivel												
						SRG	Female BSPP Swivel (for RG)												

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1. Options and accessories do not change hose technical data. Hose operating parameters must be considered when selecting a cover.
2. Clear PVC cover resists abrasion.
3. 302 stainless steel spring guard covers entire hose to protect against kinking and abrasion.
4.To order a hose assembly with special cleaning and packaging (FC-02), following ASTM G93 level C, add -F2 as a suffix to the ordering number.
*Example: **SS-PS4-FT4-F24-F2.***

End 1 and end 2 follow the orders and regulations below:
1. Metric Double Ferrules - Fractional Double Ferrules - Metric Tube Adapters - Fractional Tube Adapters - NPT Threads - BSPT Threads - BSPP Threads - SAE/MS Parallel Threads - 37° Flare - Others
2. Put the sizes from the biggest down to the smallest if they are of the same type.
3. Put the female bofore male if they are of the same type and size.

Hose Connectors, Adapters, and Sleeves

HC Series

- For connecting with soft plastic or rubber tubing
- Working pressure and temperature range is higher than the corresponding connecting hose.
- Stainless steel or brass material
- Shank design for secure holding of tubing inside diameter
- Hose connectors reusable

Part Number Description

SS – HC – F4 – NS4

End Connection Material		Series	End 1 Connection Type		End 1 Connection Size		End 2 Connection Type		End 2 Connection Size	
SS	316 SS	HC	F	Fractional	4	1/4" or 4 mm	ML	Metric Tube Fitting	4	1/4"
S4	304 SS		M	Metric	6	3/8" or 6 mm	FL	Fractional Tube Fitting	6	3/8" or 6 mm
A20	Alloy 20				8	1/2" or 8 mm	MT	Metric Tube Adapter	8	1/2" or 8 mm
INC	Alloy 600				10	5/8" or 10 mm	FT	Fractional Tube Adapter	10	5/8" or 10 mm
HC	Alloy C-276				12	3/4" or 12 mm	FNS	Female NPT	12	3/4" or 12 mm
TI	Titanium				16	1" or 16 mm	NS	Male NPT	16	1" or 16 mm
AL	Aluminum						FRT	Female BSPT	18	M18 x 1.5
904L	904L SS						RT	Male BSPT	20	M20 x 1.5
							FMS	Female Metric Thread (for RG gasket)		
							MS	Male Metric Thread (for RG gasket)		

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Quick-connects

QC Series

- Maximum working pressure: 3000 psig (207 bar)
- Temperature ranges:
  -10°F to 400°F (-23°C to 204°C) with Fluorocarbon FKM seal
  -10°F to 250°F (-23°C to 121°C) with Buna N seal
- Materials: stainless steel or brass
- End connections: 1/8" to 1/2" thread, 1/8" to 1/2" and 6 mm to 12 mm tube fitting, and 1/4" to 1/2" hose connectors
- Reliable, leak-tight O-ring seals for vacuum or pressure systems
- Mix-interchangeable with other main brands
- Single-end shutoff, double-end shutoff, and full-flow quick-connects available
- Simple push-to-connect coupling for quick and easy operation
- Sturdy locking mechanism with large contact area to ensure reliable stem retainment

QF Series

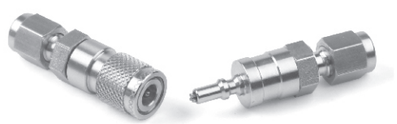
- Maximum working pressure: 6000 psig (414 bar)
- Temperature ranges:
  -10°F to 400°F (-23°C to 204°C) with Fluorocarbon FKM seal
  -10°F to 250°F (-23°C to 121°C) with Buna N seal
- Materials: stainless steel, carbon steel, and brass
- End connections: 1/4" to 1" thread, 1/4" to 1" and 6 mm to 12 mm tube fitting
- Full flow
- Quick, easy operation
- Smooth, open bores without valving on either end to minimize pressure drop and allow easy cleaning

QV Series

- Maximum working pressure: 2000 psig (137 bar)
- Temperature ranges:
  -10°F to 400°F (-23°C to 204°C) with Fluorocarbon FKM seal
  -10°F to 250°F (-23°C to 121°C) with Buna N seal
- Materials: stainless steel, carbon steel, and brass
- End connections:
  1/8" to 1" female thread (NPT and BSPT)
- Double-end shutoff available
- Durable ball-locking mechanism assures reliable connection
- Simple push-to-connect coupling for quick and easy operation

QM Series

- Maximum working pressure: 4000 psig (276 bar)
- Working temperatures: -10°F to 400°F (-23°C to 204°C)
- Single-end shutoff, double-end shutoff, and full-flow available.
- Quick, easy operation



Part Number Description

SS – QC4 – FL4 – S

Body Material		Series	Size		End Connection Type		End Connection Size		Stem or Body		
SS	316	QC	4	1/4" (6.4 mm)	FNS	Female NPT	4	1/4"	S	Stem without valve remains open when uncoupled	
B	Brass	QF	6	3/8" (9.5 mm)	NS	Male NPT	6	3/8" or 6 mm	D	Stem with valve shuts off when uncoupled	
S4	304	QV	8	1/2" (12.7 mm)	FRT	Female BSPT	8	1/2" or 8 mm	B	Body	with valve for QC and QV series
CS	Carbon Steel	QM	12	3/4" (19.1 mm)	RT	Male BSPT	10	5/8" or 10 mm			without valve for QF series
			16	1" (25.4 mm)	FMS	Female Metric Thread (for RG gasket)	12	3/4" or 12 mm	BF	Body without valve for QC series	
					MS	Male Metric Thread (for RG gasket)	14	M14 x 1.5			
					FL	Fractional Tube Fitting	16	1" or 16 mm			
					ML	Metric Tube Fitting	18	M18 x 1.5			
					FT	Fractional Tube Adapter	20	M20 x 1.5			
					MT	Metric Tube Adapter					
					AN	Male JIC 37° Flare					

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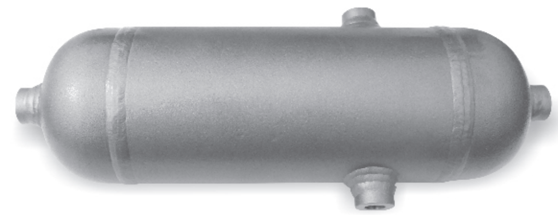
Condensate Pots and Vessels

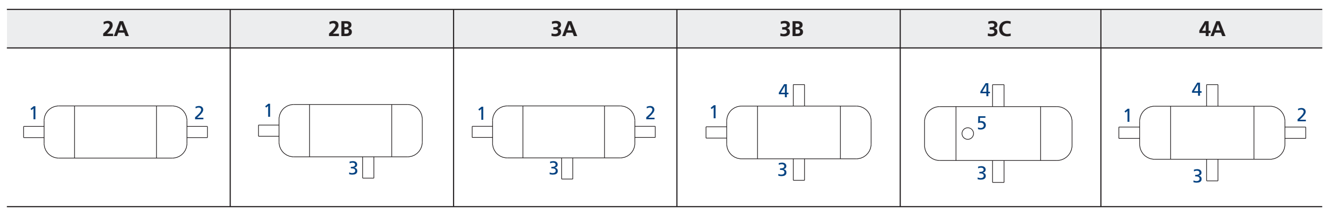
Pots

CP Series

- ◎ Maximum working pressure: Class 2500
- ◎ Socket weld connection as per ANSI B16.11
- ◎ Butt welding ends as per ANSI B16.9
- ◎ NPT as per ANSI B2.1 taper pipe thread
- ◎ All chambers are factory tested fully prior to shipment
- ◎ Standard material of construction: 316 SS, 304 SS, Carbon steel
- ◎ Pipe schedule: 40, 80, 160, XXS seamless steel
- ◎ Variety of end connections available



Configurations

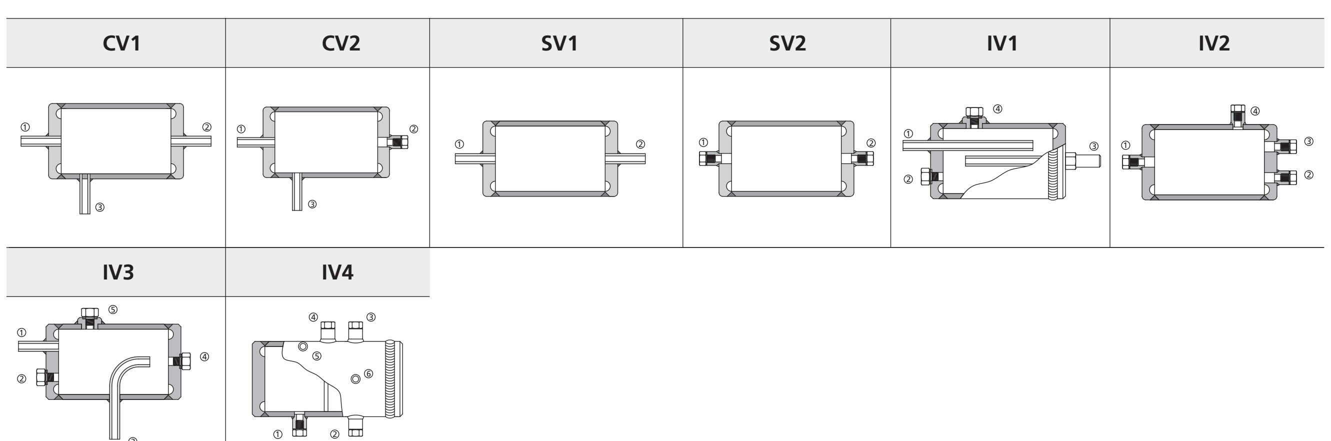


Vessels

SV Series

- ◎ Pressure ratings range class 300 to 2500.
- ◎ Maximum working temperature: 593°C (1100°F)
- ◎ Outside diameters: NPS 3 and NPS 4
- ◎ Full-penetration gas tungsten arc-weld construction ensures great strength and leak-tight performance.
- ◎ All vessels are cleaned in compliance with FITOK standard clean procedure. The connections are protected with caps or plugs.
- ◎ Each vessels is hydraulic tested with pure water at 1.5 times the design pressure, and leak-tight tested with nitrogen at its design pressure.

Configurations



Part Number Description

SS – SV – 36 – 4B – FNS8 – MTS14 – MTB12 – SF2

Body Material

SS	316 SS
6L	316L SS
S4	304 SS
4L	304L SS
S1	321 SS
11	P11
22	P22
CS	Carbon Steel

Series

CP
SV

Body O.D.

3	NPS 3
4	NPS 4

ANSI Class

3	Class 300
6	Class 600
9	Class 900
15	Class 1500
25	Class 2500

Configuration

CP Series
2A
2B
3A
3B
3C
4A
SV Series
CV1
CV2
SV1
SV2
IV1
IV2
IV3
IV4

Connection 1 Type

FNS	Female NPT
FRT	Female BSPT
TS	Fractional Tube Socket Weld
MTS	Metric Tube Socket Weld
TB	Fractional Tube Butt Weld
MTB	Metric Tube Butt Weld
PS	Pipe Socket Weld
PB	Pipe Butt Weld
FL	Fractional Tube Fitting
ML	Metric Tube Fitting
FT	Fractional Tube Fitting
MT	Metric Tube Fitting
RB	Purge Valve (normative)

Connection 1 Size

2	1/8"
4	1/4"
8	1/2" or 8 mm
10	10 mm
12	3/4" or 12 mm
14	14 mm
16	1" or 16 mm

Connection 2 to 6 Type / **Connection 2 to 6 Size**

	Same as connection 1
	Specified in the same way as theconnection 1 type and size

Special Application

	NO
S	NACE MR0175

Cleaning and Packaging

	FC-01
F2	FC-02

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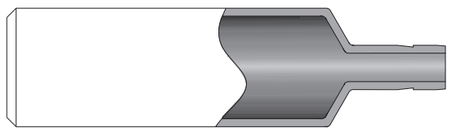
Sample Cylinders

SC Series

- Maximum working pressure is 5000 psig (345 bar).
- Volume varies from 40 to 3785 cm^3.
- Seamless tubing body provides consistent wall thickness, size and capacity.
- Cylinder inlet ends are 1/8, 1/4 and 1/2 female NPT connections.
- Heavy wall end connections provide strength and are flaring-resistent.
- Full-penetration gas tungsten arc-weld construction provides leak-tight sample containment.
- 304L and 316L and alloy 400 stainless steel materials resist intergranular corrosion.

MC Series

- Maximum working pressure: 1000 psig (68.9 bar)
- Capacity: 10, 25 and 50 cm^3
- Single-ended and double-ended designs
- End connection: connected to 3/8" FITOK tube fittings or welded to 1/4" or 3/8" tubing
- Corrosion-resistant stainless steel construction
- Full-penetration butt weld construction



Part Number Description

6L – MC – DTS4 – 10 – SF2

Material	Series	Type	End Connection	Internal Volume	Special Application	Cleaning and Packaging
6L 316L SS	MC	S Single-ended	TS4 1/4" (6.4 mm) Fractional Tube Socket Weld	10 10 cm^3	NO	FC-01
4L 304L SS		D Double-ended	TB6 3/8" (9.5 mm) Fractional Tube Butt Weld	25 25 cm^3	S NACE MR0175	F2 FC-02
			FT6 3/8" (9.5 mm) Tube	50 50 cm^3		

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Part Number Description

6L – SC18 – DN4 – T – PC – H2 – OT4087 – 300 – SF2

Material	Series	Working Pressure	End Type	End Connection	Internal Cylinder Surface	Cap & Plug	Carrying Handle	Outage Tube Code	Internal Volume	Special Application	Cleaning and Packaging
6L 316L SS	SC	5 500 Psig	S Single-ended	N2 1/8 Female NPT	No Special Treatment	NO	NO	No	150 150 cm^3	NO	FC-01
4L 304L SS		18 1800 Psig	D Double-ended	N4 1/4 Female NPT	T PTFE Coating	TP Tube Fitting Plug	H2 Cylinder OD 1.9" or 2"	OT4087 Outage Tube OD 1/4" Length 0.87"	300 300 cm^3	S NACE MR0175	F2 FC-02
		50 5000 Psig		N8 1/2 Female NPT	E Electropolishing	TC Tube Cap	H4 Cylinder OD 3.5" or 4"		500 500 cm^3		
						PP Pipe Plug			For Double-ended Only: 40 40 cm^3; 50 50 cm^3; 75 75 cm^3; 400 400 cm^3; 1000 1000 cm^3; 2250 2250 cm^3; 3785 3785 cm^3		
						PC Pipe Cap					

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