

Diaphragm Valves



ROKE

Valves ,Fittings and Tubing

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Contents

Low Pressure Low Flow Diaphragm Valves

LLD Series	300 psig	01
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Low Pressure Medium Flow Diaphragm Valves

LMD Series	300 psig	04
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Low Pressure High Flow Diaphragm Valves

LHD Series	300 psig	04
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High Pressure Low Flow Diaphragm Valves

HLD Series	3500 psig	07
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High Pressure High Flow Diaphragm Valves

HHD Series	3500 psig	10
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Low Pressure Low Flow Diaphragm Valves

LLD Series (300 psig)

Features

- Suitable for high purity and ultra high purity applications
- Wide temperature range, and excellent medium compatibility
- Low internal volume, fully swept flow path
- Contained seat to provide excellent resistance to swelling and contamination
- Cobalt alloy diaphragm with high strength and corrosion resistance to ensure long cycle life
- Manual and pneumatic actuators available



Technical Data

Port Size	1/4" to 3/8" or 6 mm to 8 mm	
Flow Coefficient (Cv)	0.27	
Orifice Size	4.1 mm (0.16 in.)	
Max. Working Pressure	Manual : 20 bar (300 psig) Pneumatic: 10 bar (150 psig)	
Pneumatic actuator working pressure	4.2 to 6.2 bar (60 to 90 psig)	
Temperature	PCTFE: -23 ~ 80°C (-10 ~ 176°F) PFA: -23 ~ 150°C (-10 ~ 302°F)	
Leak Rate (Helium)	Internal	$\leq 1 \times 10^{-9}$ std cm ³ /s
	External	$\leq 1 \times 10^{-9}$ std cm ³ /s

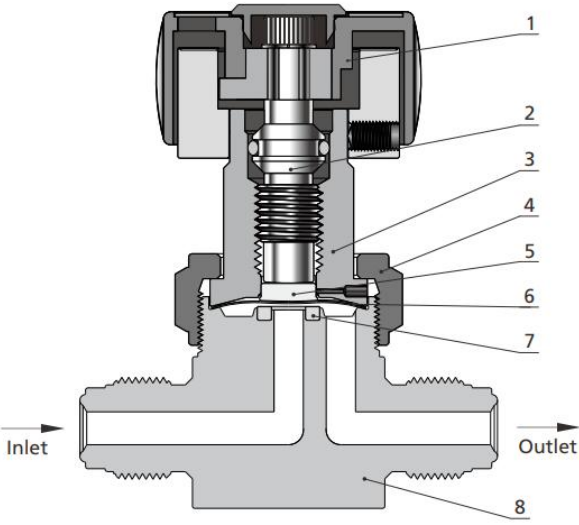
Flow Data

Pressure Drop to Atmosphere bar (psig)	Air (l/min)	Water (l/min)	Ambient Temperature
0.68 (10)	86	3.2	Air @ 21 °C (70 °F) Water@ 16 °C (60 °F)
3.4 (50)	230	7.2	
6.8 (100)	410	10.2	

Process Specification

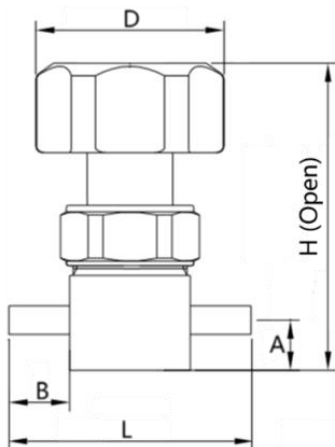
Process grade	General Purity (GP)	High Purity (HP)	Ultra High Purity (UHP)
Material	SS 316L	316L VAR	316L VIM-VAR
Material Code	SS	SV	SM
Wetted Surface Roughness	Ra 0.50 µm (20 µin.)	Ra 0.25 µm (10 µin.)	Ra 0.13 µm (5 µin.)
Polishing Process	Machine finished	Electropolished	Electropolished
Package	Single Layer	Double Layer	Double Layer

Construction

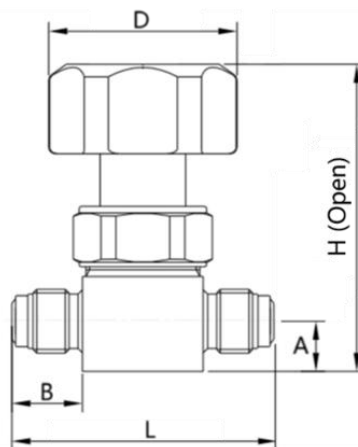
	Item	Component	Material
	1	Handle	Aluminum
	2	Stem	SS 316L/ASTM A479
	3	Bonnet	S17400/ASTM A564
	4	Bonnet	SS 316L/ASTM A479
	5	Button	SS 316L/ASTM A479
	6	Diaphragm	Cobalt Alloy/AMS 5876
	7	Seat	PCTFE/ASTM D1430 or PFA/ASTM D3307
	8	Body	SS 316L or 316L VAR or 316L VIM-VAR

Dimensions

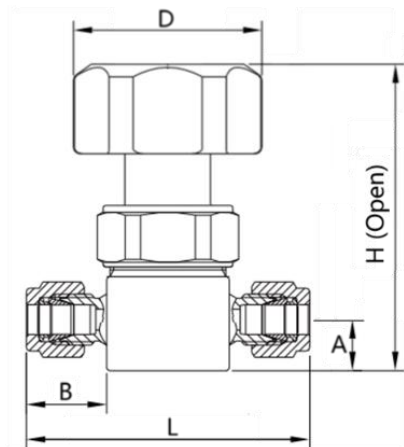
Tube Butt Weld



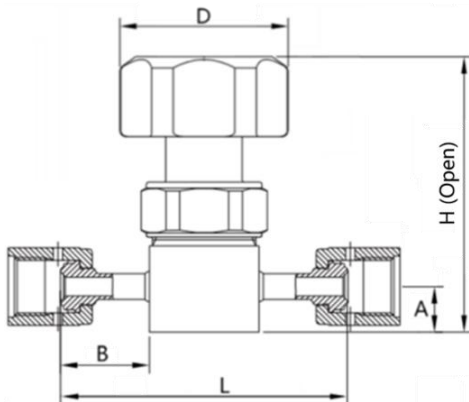
Male Face Seal Fitting



Tube Fitting

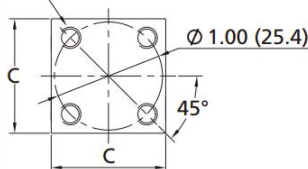


Female Face Seal Fitting

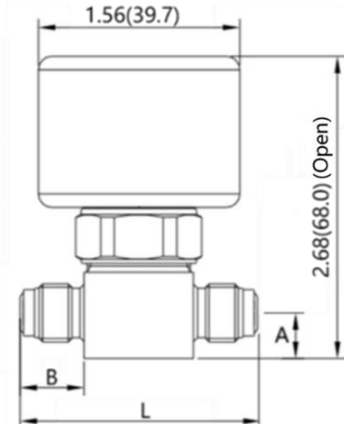


Bottom Installation

2×M5×0.8-6H thread
The holes are compatible
with 10-32 mounting screws



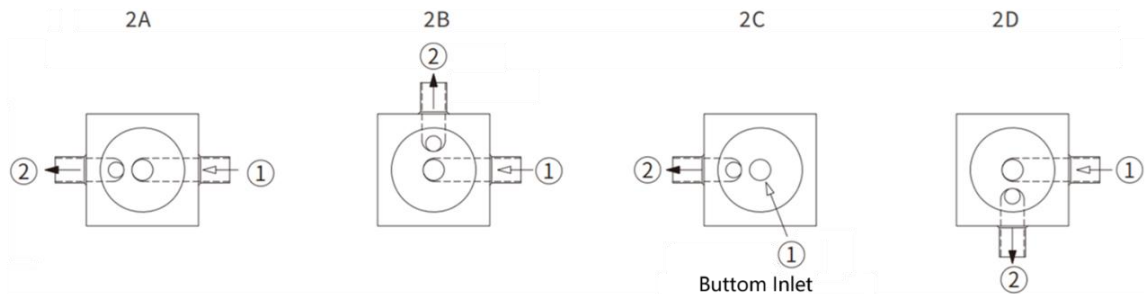
Pneumatic Valve



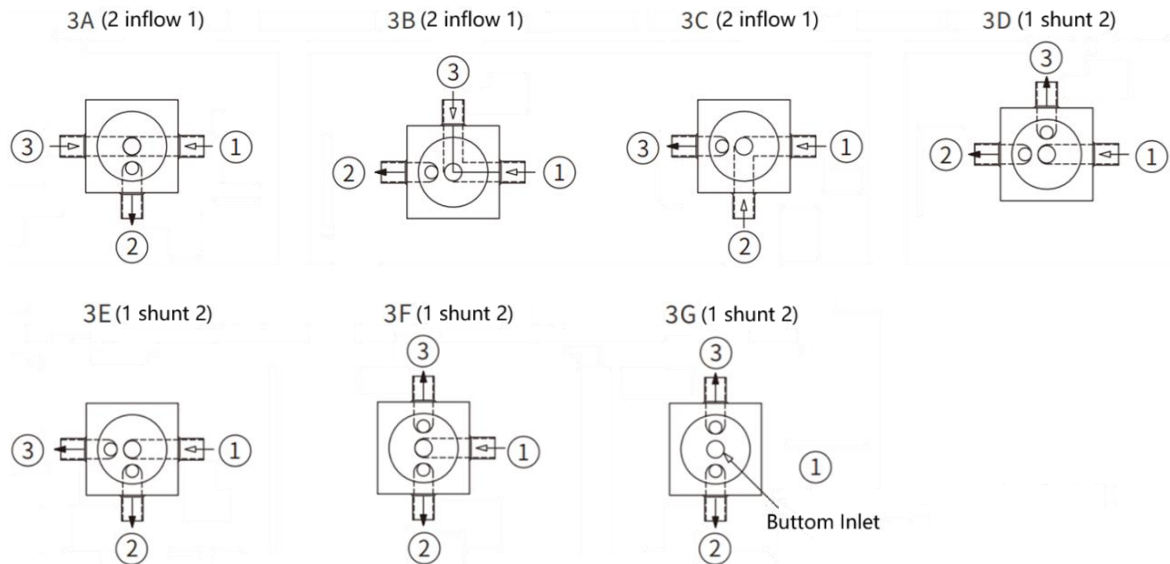
Ordering Number	Connection Type and Size	Dimensions in. (mm)					
		A	B	C	D	H	L
-LLD-FTD4-	1/4" Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	1.74 (44.2)
-LLD-FTD6-	3/8" Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	1.74 (44.2)
-LLD-MTD6-	6 mm Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	1.74 (44.2)
-LLD-MTD8-	8 mm Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	1.74 (44.2)
-LLD-FRM4-	1/4" Male Face Seal Fitting	0.44 (11.2)	0.62 (15.7)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	2.30 (58.4)
-LLD-FT4-	1/4" Tube Fitting	0.44 (11.2)	0.69 (17.6)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	2.45 (62.2)
-LLD-MT6-	6 mm Tube Fitting	0.44 (11.2)	0.69 (17.6)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	2.45 (62.2)
-LLD-MT8-	8 mm Tube Fitting	0.44 (11.2)	0.74 (18.0)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	2.48 (63.0)
-LLD-FRF4-	1/4" Female Face Seal Fitting	0.44 (11.2)	0.86 (21.8)	1.06 (26.9)	1.50 (38)	2.38 (60.5)	2.78 (70.6)

Flow Paths

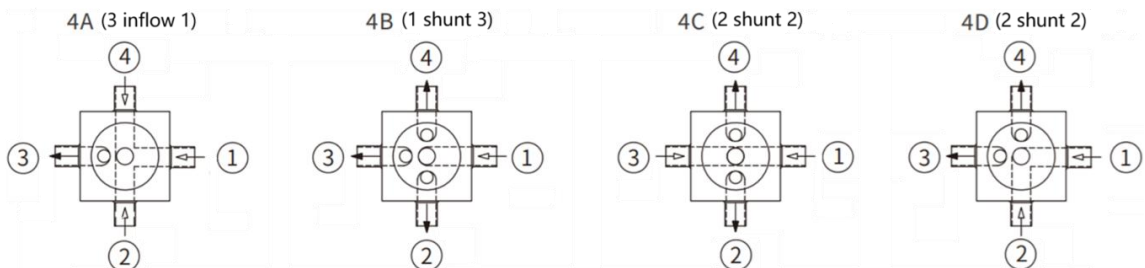
2 Flow



3 Flow



4 Flow



Low Pressure Medium Flow Diaphragm Valves

LMD Series (300 psig)

Features

- ◉ Suitable for high purity and ultra high purity applications
- ◉ Suitable for medium flow applications
- ◉ Internally without threads or springs, can completely clean the flow channel
- ◉ Fully contained seat to provide excellent resistance to swelling and contamination
- ◉ Cobalt alloy diaphragm with high strength and corrosion resistance to ensure long cycle life
- ◉ Manual and pneumatic actuators available



Technical Data

Port Size	3/8" to 1/2" or 8 mm to 12 mm	
Flow Coefficient (Cv)	0.70	
Orifice Size	7.9 mm (0.31 in.)	
Max. Working Pressure	Manual : 20 bar (300 psig) Pneumatic : 10 bar (150 psig)	
Pneumatic actuator working pressure	4.2 to 6.2 bar (60 to 90 psig)	
Temperature	PCTFE: -23 ~ 80°C (-10 ~ 176°F) PFA: -23 ~ 150°C (-10 ~ 302°F)	
Leak Rate (Helium)	Internal	$\leq 1 \times 10^{-9}$ std cm ³ /s
	External	$\leq 1 \times 10^{-9}$ std cm ³ /s

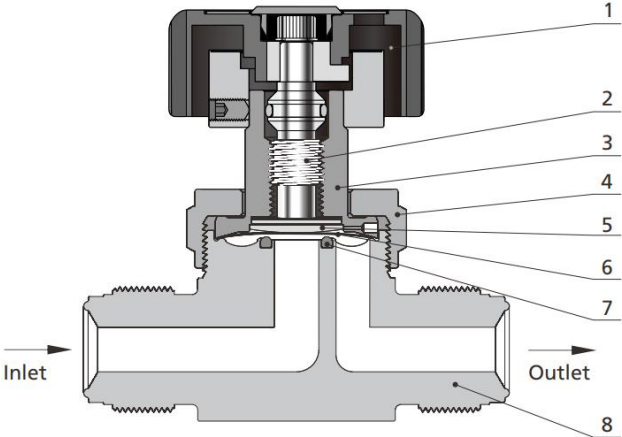
Flow Data

Pressure Drop to Atmosphere bar (psig)	Air (l/min)	Water (l/min)	Ambient Temperature
0.68 (10)	240	8.4	Air @ 21 °C (70 °F) Water @ 16 °C (60 °F)
3.4 (50)	630	18.6	
6.8 (100)	1120	26.6	

Process Specification

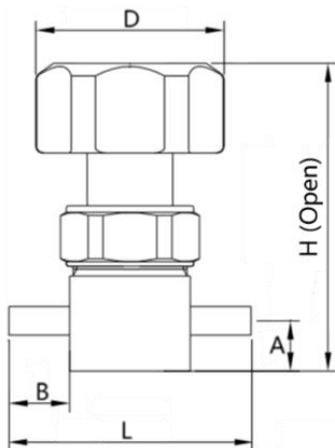
Process grade	General Purity (GP)	High Purity (HP)	Ultra High Purity (UHP)
Material	SS 316L	316L VAR	316L VIM-VAR
Material Code	SS	SV	SM
Welded Surface Roughness	Ra 0.50 µm (20 µin.)	Ra 0.25 µm (10 µin.)	Ra 0.13 µm (5 µin.)
Polishing Process	Machine finished	Electropolished	Electropolished
Package	Single Layer	Double Layer	Double Layer

Construction

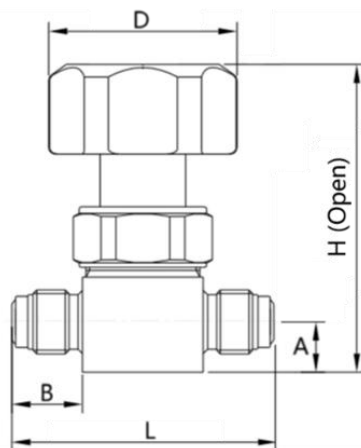
	Item	Component	Material
	1	Handle	Aluminum
	2	Stem	SS 316L/ASTM A479
	3	Bonnet	S17400/ASTM A564
	4	Bonnet Nut	SS 316L/ASTM A479
	5	Button	SS 316L/ASTM A479
	6	Diaphragm	Cobalt Alloy/AMS 5876
	7	Seat	PCTFE/ASTM D1430 or PFA/ASTM D3307
	8	Body	SS 316L or 316L VAR or 316L VIM-VAR

Dimensions

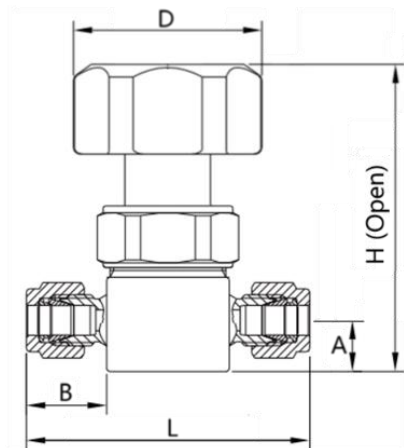
Tube Butt Weld



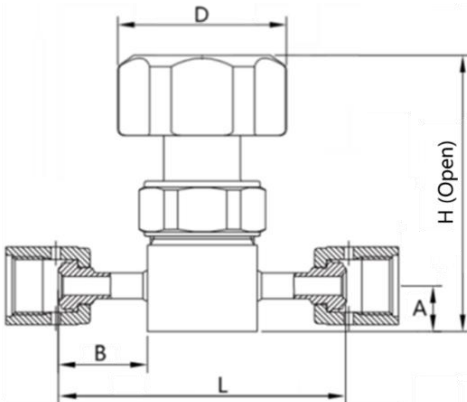
Male Face Seal Fitting



Tube Fitting

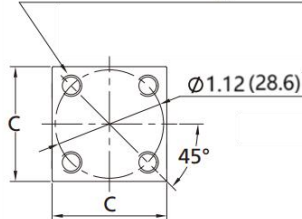


Female Face Seal Fitting

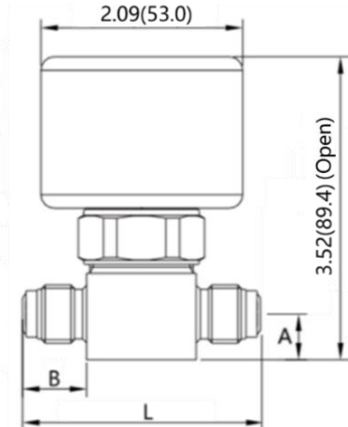


Bottom Installation

2×M5×0.8-6H thread
The holes are compatible
with 10-32 mounting screws



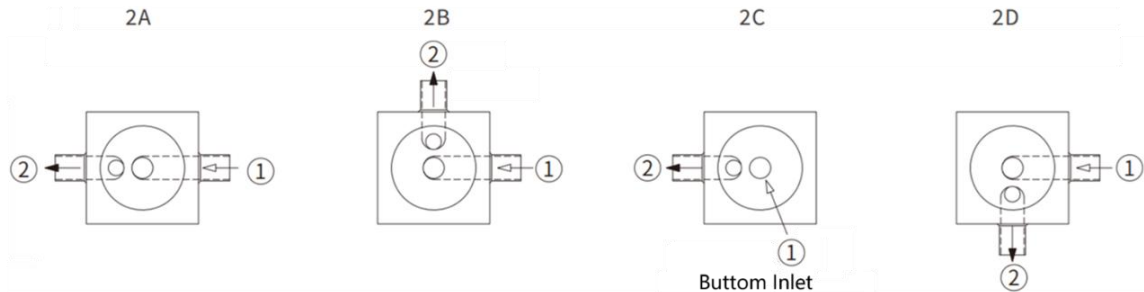
Pneumatic Valve



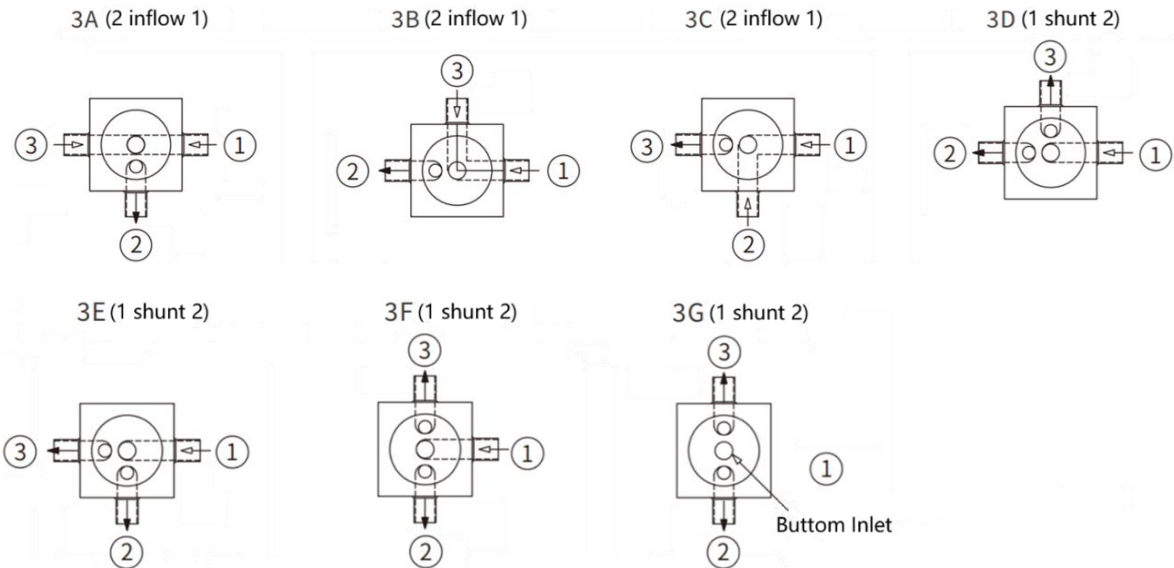
Ordering Number	Connection Type and Size	Dimensions in. (mm)					
		A	B	C	D	H	L
-LMD-FTD6-	3/8" Tube Butt Weld	0.63 (16.0)	0.67 (17.0)	1.38 (35.0)	1.77 (45)	2.91 (74)	2.72 (69.0)
-LMD-FTD8-	1/2" Tube Butt Weld	0.63 (16.0)	0.67 (17.0)	1.38 (35.0)	1.77 (45)	2.91 (74)	2.72 (69.0)
-LMD-MTD10-	10 mm Tube Butt Weld	0.63 (16.0)	0.67 (17.0)	1.38 (35.0)	1.77 (45)	2.91 (74)	2.72 (69.0)
-LMD-MTD12-	12 mm Tube Butt Weld	0.63 (16.0)	0.67 (17.0)	1.38 (35.0)	1.77 (45)	2.91 (74)	2.72 (69.0)
-LMD-FRM8-	1/2" Male Face Seal Fitting	0.63 (16.0)	0.81 (20.6)	1.38 (35.0)	1.77 (45)	2.91 (74)	3.00 (76.2)
-LMD-FT6-	3/8" Tube Fitting	0.63 (16.0)	0.76 (19.3)	1.38 (35.0)	1.77 (45)	2.91 (74)	2.90 (73.6)
-LMD-FT8-	1/2" Tube Fitting	0.63 (16.0)	0.86 (21.8)	1.38 (35.0)	1.77 (45)	2.91 (74)	3.09 (78.6)
-LMD-MT6-	10 mm Tube Fitting	0.63 (16.0)	0.76 (19.3)	1.38 (35.0)	1.77 (45)	2.91 (74)	2.90 (73.6)
-LMD-MT8-	12 mm Tube Fitting	0.63 (16.0)	0.86 (21.8)	1.38 (35.0)	1.77 (45)	2.91 (74)	3.09 (78.6)
-LMD-FRF8-	1/2" Female Face Seal Fitting	0.63 (16.0)	0.94 (23.9)	1.38 (35.0)	1.77 (45)	2.91 (74)	3.26 (82.8)

Flow Paths

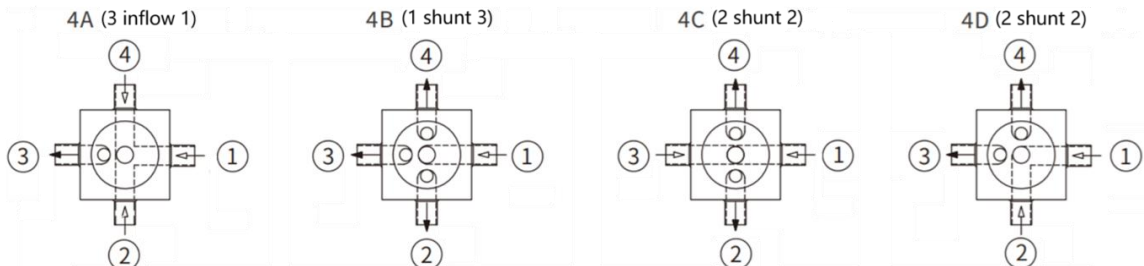
2 Flow



3 Flow



4 Flow



Low Pressure High Flow Diaphragm Valves

LHD Series (300 psig)

Features

◉ Suitable for high purity and ultra high purity applications ◉ Suitable for High flow applications ◉ No springs or threads in wetted areas to ensure clean operation ◉ Tied-diaphragm design to provide positive stem retraction ◉ Cobalt alloy diaphragm with high strength and corrosion resistance to ensure long cycle life ◉ Manual and pneumatic actuators available	
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Technical Data

Port Size	1/2" to 1" or 12 mm to 18 mm	
Flow Coefficient (Cv)	2.8	
Orifice Size	12.7 mm (0.50 in.)	
Max. Working Pressure	Manual : 20 bar (300 psig) Pneumatic : 10 bar (150 psig)	
Pneumatic actuator working pressure	4.2 to 6.2 bar (60 to 90 psig)	
Temperature	PCTFE: -23 ~ 80°C (-10 ~ 176°F) Polyimide: -23 ~ 121°C (-10 ~ 250°F)	
Leak Rate (Helium)	$\leq 1 \times 10^{-9}$ std cm ³ /s	$\leq 1 \times 10^{-9}$ std cm ³ /s
	$\leq 1 \times 10^{-9}$ std cm ³ /s	$\leq 1 \times 10^{-9}$ std cm ³ /s

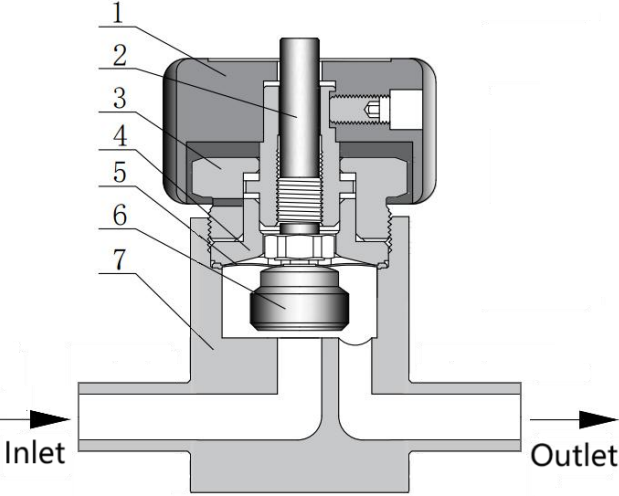
Flow Data

Pressure Drop to Atmosphere bar (psig)	Air (l/min)	Water (l/min)	Ambient Temperature
0.68 (10)	870	34	Air @ 21 °C (70 °F) Water @ 16 °C (60 °F)
3.4 (50)	2300	75	
6.8 (100)	4100	100	

Process Specification

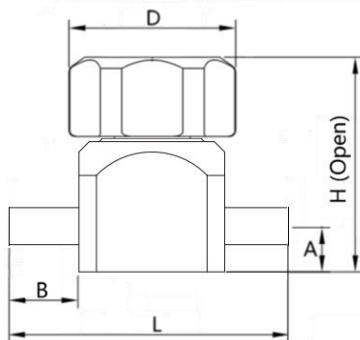
Process grade	General Purity (GP)	High Purity (HP)	Ultra High Purity (UHP)
Material	SS 316L	316L VAR	316L VIM-VAR
Material Code	SS	SV	SM
Wetted Surface Roughness	Ra 0.50 µm (20 µin.)	Ra 0.25 µm (10 µin.)	Ra 0.13 µm (5 µin.)
Polishing Process	Machine finished	Electropolished	Electropolished
Package	Single Layer	Double Layer	Double Layer

Construction

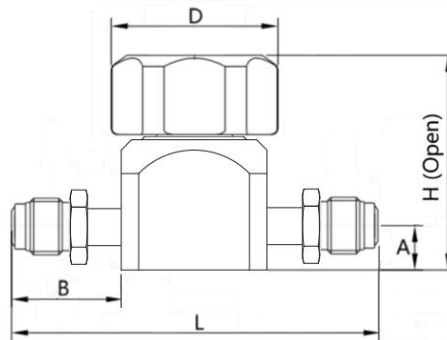
	Item	Component	Material
	1	Handle	Aluminum
	2	Upper Stem	SS 316L/ASTM A479
	3	Bonnet Nut	SS 316L/ASTM A479
	4	Bonnet	S17400/ASTM A564
	5	Diaphragm	Cobalt Alloy/AMS 5876
	6	Lower Stem	316L SS or 316L SS VAR and PCTFE or Polyimide
	7	Body	SS 316L or 316L VAR or 316L VIM-VAR

Dimensions

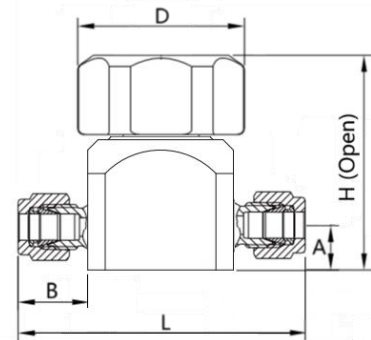
Tube Butt Weld



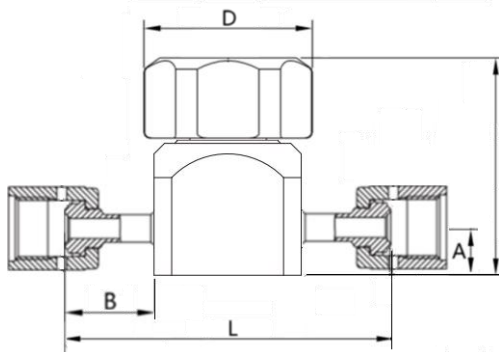
Male Face Seal Fitting



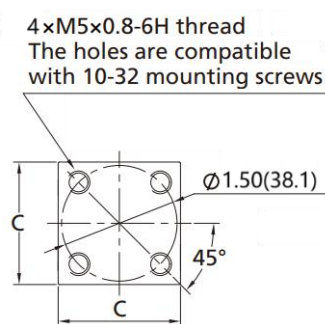
Tube Fitting



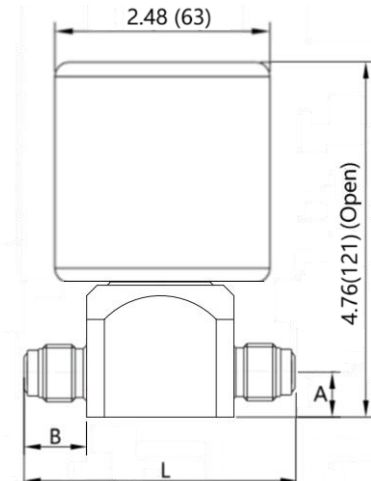
Female Face Seal Fitting



Bottom Installation



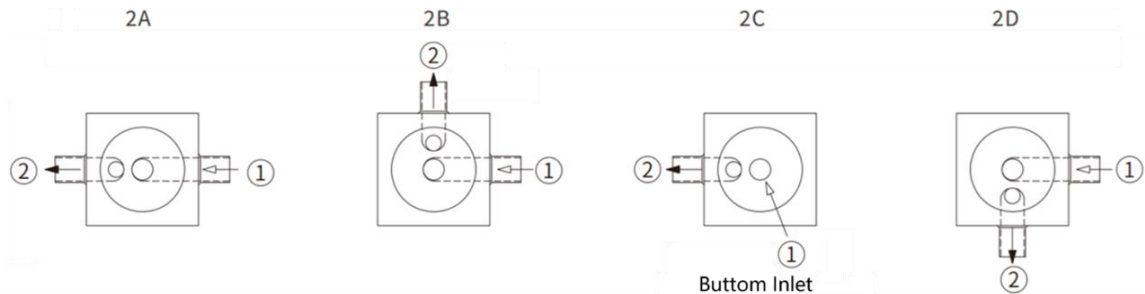
Pneumatic Valve



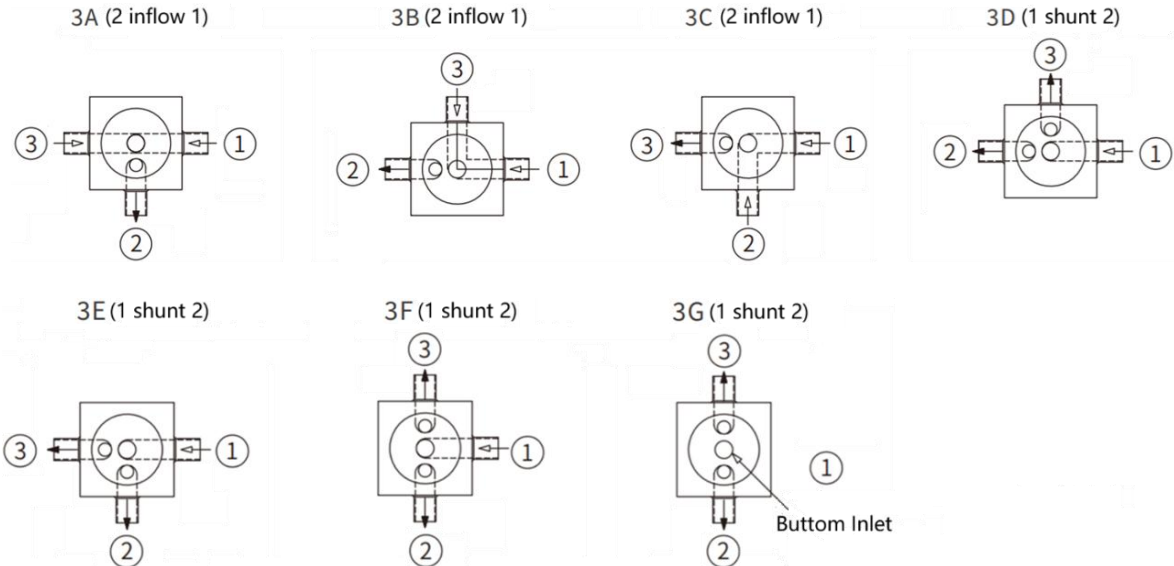
Ordering Number	Connection Type and Size	Dimensions in. (mm)					
		A	B	C	D	H	L
-LHD-FTD8-	1/2" Tube Butt Weld	0.63 (16.0)	1.90 (50.0)	1.97 (50.0)	2.25 (57)	2.95 (75)	5.91 (150)
-LHD-FTD12-	3/4" Tube Butt Weld	0.63 (16.0)	1.90 (50.0)	1.97 (50.0)	2.25 (57)	2.95 (75)	5.91 (150)
-LHD-MTD12-	12 mm Tube Butt Weld	0.63 (16.0)	1.90 (50.0)	1.97 (50.0)	2.25 (57)	2.95 (75)	5.91 (150)
-LHD-MTD18-	18 mm Tube Butt Weld	0.63 (16.0)	1.90 (50.0)	1.97 (50.0)	2.25 (57)	2.95 (75)	5.91 (150)
-LHD-FRM8-	1/2" Male Face Seal Fitting	0.63 (16.0)	1.75 (44.5)	1.97 (50.0)	2.25 (57)	2.95 (75)	5.47 (139)
-LHD-FT8-	1/2" Tube Fitting	0.63 (16.0)	0.86 (21.8)	1.97 (50.0)	2.25 (57)	2.95 (75)	3.69 (93.6)
-LHD-FT12-	3/4" Tube Fitting	0.63 (16.0)	0.92 (23.4)	1.97 (50.0)	2.25 (57)	2.95 (75)	3.81 (96.8)
-LHD-MT12-	12 mm Tube Fitting	0.63 (16.0)	0.76 (19.3)	1.97 (50.0)	2.25 (57)	2.95 (75)	2.90 (73.6)
-LHD-MT18-	18 mm Tube Fitting	0.63 (16.0)	0.86 (21.8)	1.97 (50.0)	2.25 (57)	2.95 (75)	3.09 (78.6)
-LHD-FRF8-	1/2" Female Face Seal Fitting	0.63 (16.0)	1.75 (44.5)	1.97 (50.0)	2.25 (57)	2.95 (75)	5.47 (139)

Flow Paths

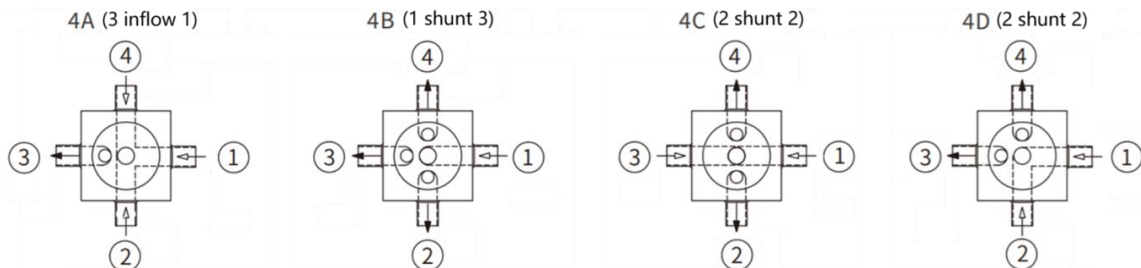
2 Flow



3 Flow



4 Flow



High Pressure Low Flow Diaphragm Valves

HLD Series (3500 psig)

Features

- Suitable for high purity and ultra high purity applications
- Volume Small, suitable for compact spaces
- Metal-to-metal diaphragm seal
- Long cycle life in high pressure applications
- Cobalt alloy diaphragm with high strength and corrosion resistance to ensure long cycle life
- Manual and pneumatic actuators available



Technical Data

Port Size		1/4" to 3/8" or 6 mm to 8 mm
Flow Coefficient (Cv)		0.17
Orifice Size		3.0 mm (0.12 in.)
Max. Working Pressure		Manual : 241 bar (3500 psig) Pneumatic : 207 bar (3000 psig)
Pneumatic actuator working pressure		5.2 to 7.2 bar (75 to 105 psig)
Temperature		PCTFE: -23 ~ 65°C (-10 ~ 150°F) Polymide: -23 ~ 121°C (-10 ~ 250°F)
Leak Rate (Helium)	Internal	$\leq 1 \times 10^{-9}$ std cm ³ /s
	External	$\leq 1 \times 10^{-9}$ std cm ³ /s

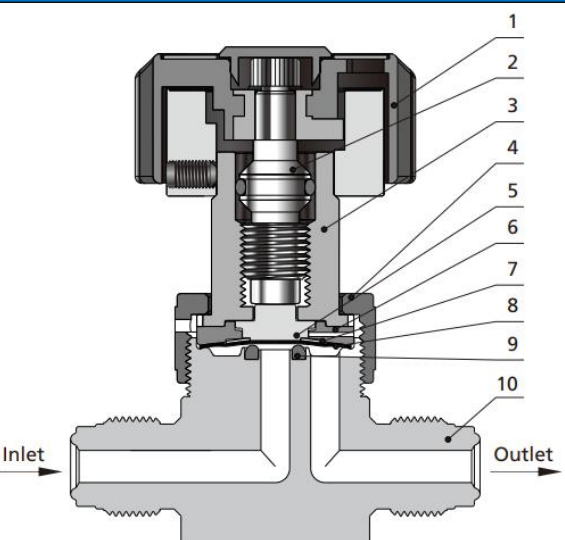
Flow Data

Pressure Drop to Atmosphere bar (psig)	Air (l/min)	Water (l/min)	Ambient Temperature
0.68 (10)	55	1.9	Air @ 21 °C (70 °F) Water @ 16 °C (60 °F)
3.4 (50)	150	4.5	
6.8 (100)	260	6.4	

Process Specification

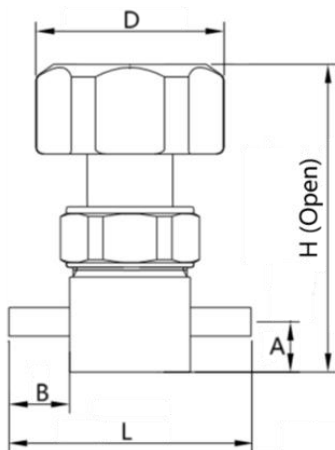
Process grade	General Purity (GP)	High Purity (HP)	Ultra High Purity (UHP)
Material	SS 316L	316L VAR	316L VIM-VAR
Material Code	SS	SV	SM
Wetted Surface Roughness	Ra 0.50 µm (20 µin.)	Ra 0.25 µm (10 µin.)	Ra 0.13 µm (5 µin.)
Polishing Process	Machine finished	Electropolished	Electropolished
Package	Single Layer	Double Layer	Double Layer

Construction

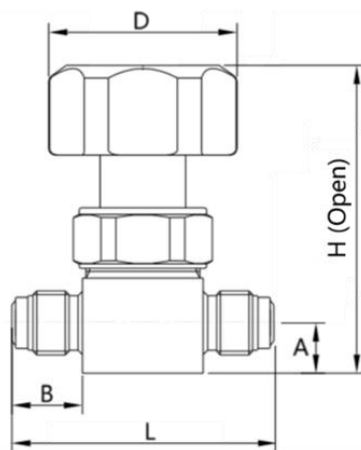
	Item	Component	Material
	1	Handle	Aluminum
	2	Stem	SS 316L/ASTM A479
	3	Bonnet	S17400/ASTM A564
	4	Bonnet Nut	SS 316L/ASTM A479
	5	Button	SS 316L/ASTM A479
	6	Seal	S17400/ASTM A564
	7	Bonnet Retainer	S17700
	8	Diaphragm	Cobalt Alloy/AMS 5876
	9	Seat	PCTFE/ASTM D1430 or PFA/ASTM D3307
	10	Body	SS 316L or 316L VAR or 316L VIM-VAR

Dimensions

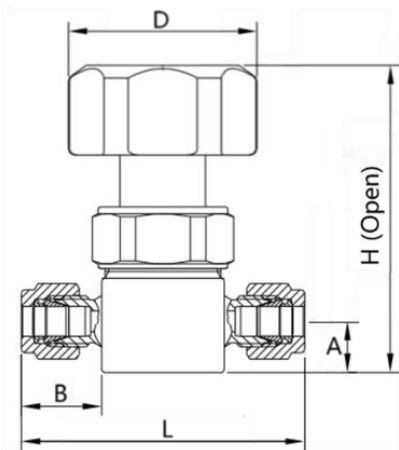
Tube Butt Weld



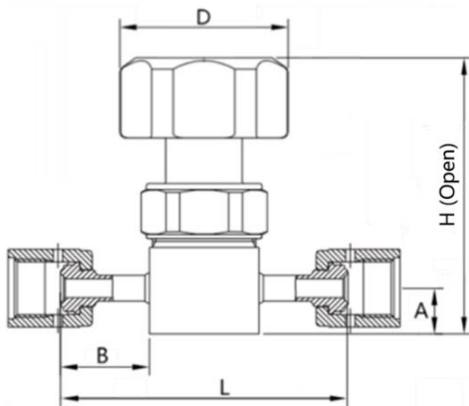
Male Face Seal Fitting



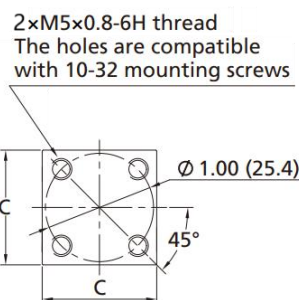
Tube Fitting



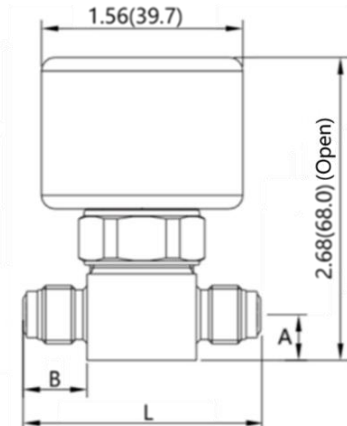
Female Face Seal Fitting



Bottom Installation



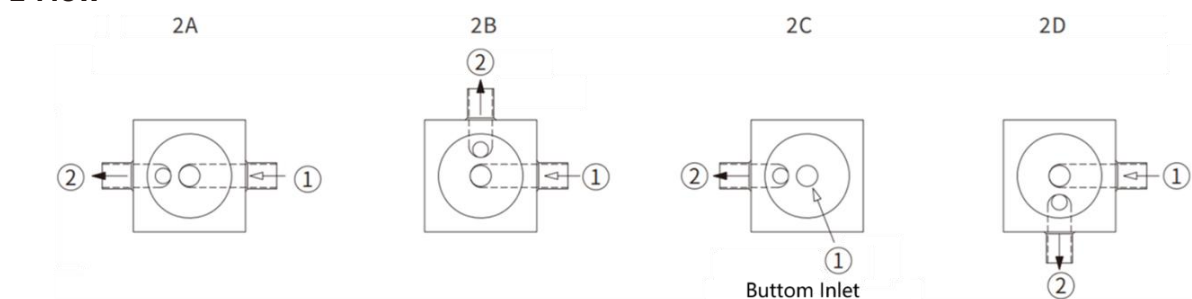
Pneumatic Valve



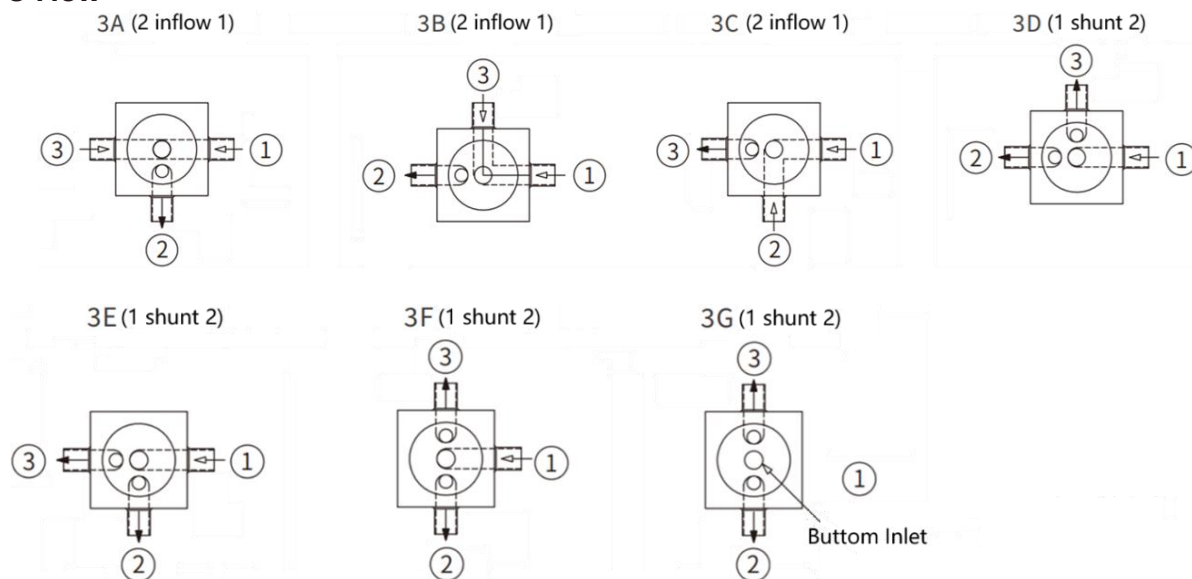
Ordering Number	Connection Type and Size	Dimensions in. (mm)						
		A	B	C	D	F	H	L
-HLD-FTD4-	1/4" Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	1.80 (45.8)
-HLD-FTD6-	3/8" Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	1.80 (45.8)
-HLD-MTD6-	6 mm Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	1.80 (45.8)
-HLD-MTD8-	8 mm Tube Butt Weld	0.44 (11.2)	0.34 (8.6)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	1.80 (45.8)
-HLD-FRM4-	1/4" Male Face Seal Fitting	0.44 (11.2)	0.62 (15.7)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	2.36 (60.0)
-HLD-FT4-	1/4" Tube Fitting	0.44 (11.2)	0.69 (17.6)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	2.51 (63.8)
-HLD-MT6-	6 mm Tube Fitting	0.44 (11.2)	0.69 (17.6)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	2.51 (63.8)
-HLD-MT8-	8 mm Tube Fitting	0.44 (11.2)	0.74 (18.0)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	2.54 (64.6)
-HLD-FRF4-	1/4" Female Face Seal Fitting	0.44 (11.2)	0.86 (21.8)	1.12 (28.6)	1.50 (38)	0.71 (18.2)	2.44 (62)	2.84 (72.2)

Flow Paths

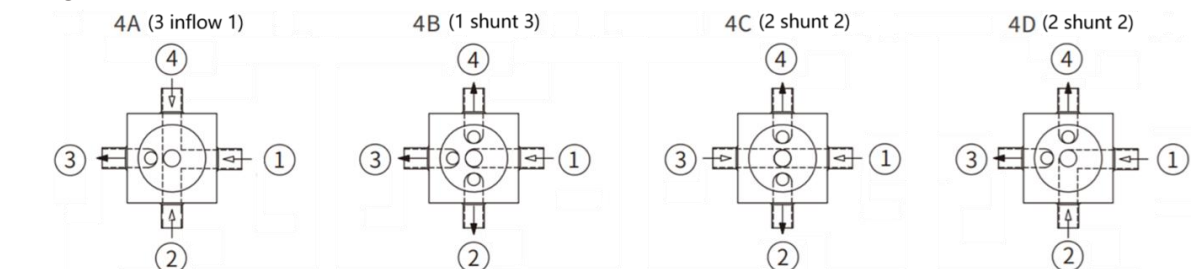
2 Flow



3 Flow



4 Flow



High Pressure High Flow Diaphragm Valves

HHD Series (3500 psig)

Features

- Suitable for high purity and ultra high purity applications
- Suitable for high flow applications
- Valve seat can be replaced
- Metal-to-metal seal
- Spring type design
- Cobalt alloy diaphragm with high strength and corrosion resistance to ensure long cycle life
- Manual and pneumatic actuators available



Technical Data

Port Size	3/8" to 1/2" or 8 mm to 12 mm	
Flow Coefficient (Cv)	0.70	
Orifice Size	7.9 mm (0.31 in.)	
Max. Working Pressure	Manual : 241 bar (3500 psig) Pneumatic : 207 bar (3000 psig)	
Pneumatic actuator working pressure	5.2 to 7.2 bar (75 to 105 psig)	
Temperature	PCTFE: -23 ~ 65°C (-10 ~ 150°F) Polymide: -23 ~ 121°C (-10 ~ 250°F)	
Leak Rate (Helium)	Internal	$\leq 4 \times 10^{-9}$ std cm ³ /s
	External	$\leq 4 \times 10^{-9}$ std cm ³ /s

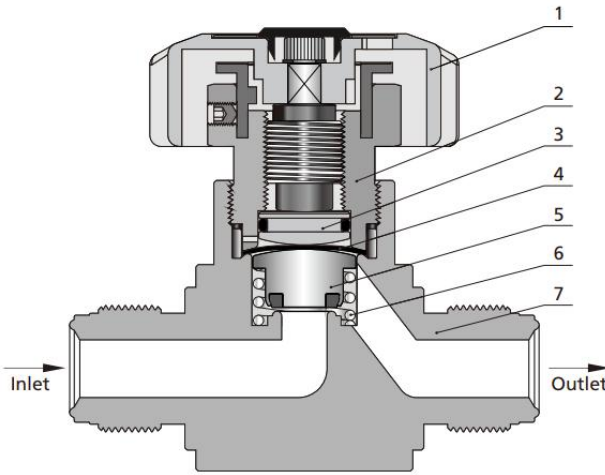
Flow Data

Pressure Drop to Atmosphere bar (psig)	Air (l/min)	Water (l/min)	Ambient Temperature
0.68 (10)	274	9.5	Air @ 21 °C (70 °F) Water @ 16 °C (60 °F)
3.4 (50)	733	21.5	
6.8 (100)	1300	30.3	

Process Specification

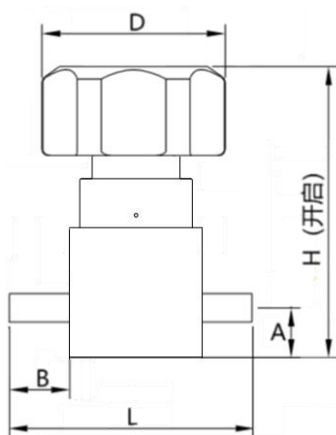
Process grade	General Purity (GP)	High Purity (HP)	Ultra High Purity (UHP)
Material	SS 316L	316L VAR	316L VIM-VAR
Material Code	SS	SV	SM
Welded Surface Roughness	Ra 0.50 µm (20 µin.)	Ra 0.25 µm (10 µin.)	Ra 0.13 µm (5 µin.)
Polishing Process	Machine finished	Electropolished	Electropolished
Package	Single Layer	Double Layer	Double Layer

Construction

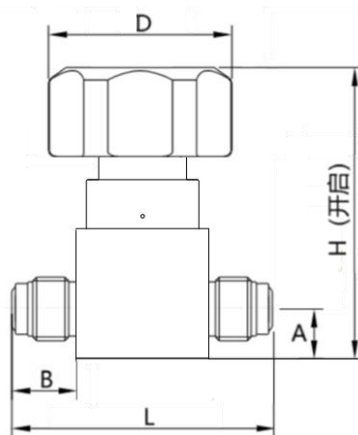
	Item	Component	Material
	1	Handle	Aluminum
	2	Bonnet Nut	SS 316L/ASTM A479
	3	Button	SS 316L/ASTM A479
	4	Diaphragm	Cobalt Alloy/AMS 5876
	5	Stem	SS 316L/ASTM A479
	6	Spring	SS 316L/ASTM A479
	7	Body	SS 316L or 316L VAR or 316L VIM-VAR

Dimensions

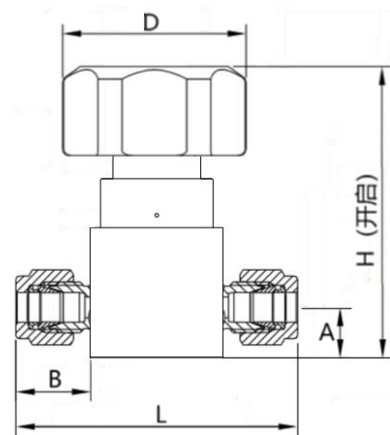
Tube Butt Weld



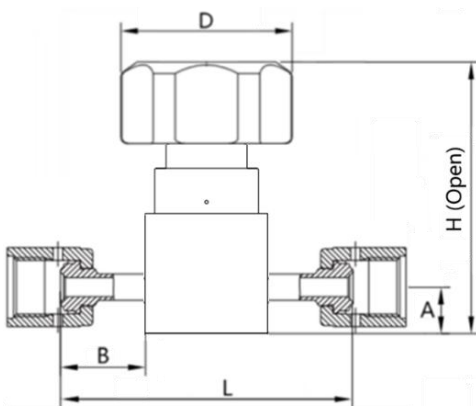
Male Face Seal Fitting



Tube Fitting

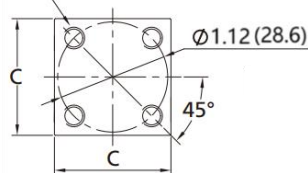


Female Face Seal Fitting

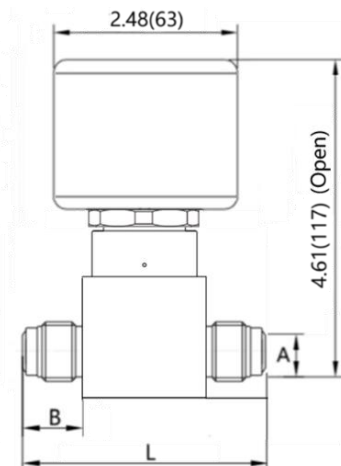


Bottom Installation

2xM5x0.8-6H thread
The holes are compatible
with 10-32 mounting screws



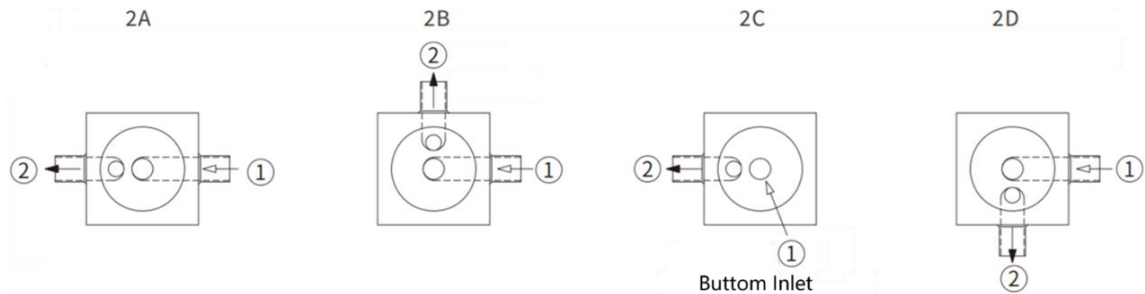
Pneumatic Valve



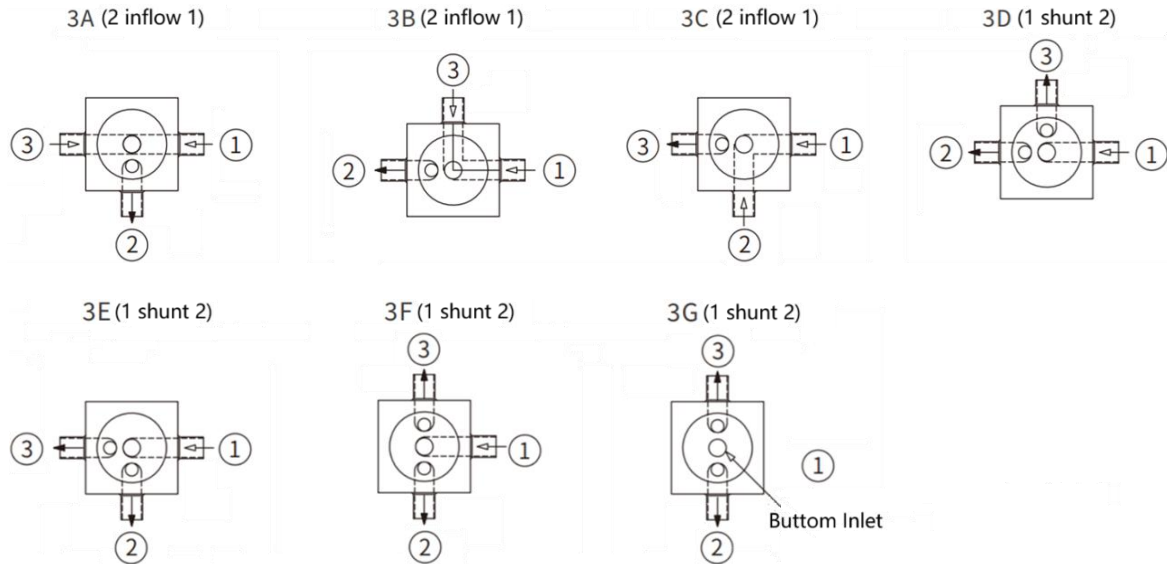
Ordering Number	Connection Type and Size	Dimensions in. (mm)					
		A	B	C	D	H	L
-HHD-FTD6-	3/8" Tube Butt Weld	0.71 (18.0)	0.67 (17.0)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	2.84 (72.1)
-HHD-FTD8-	1/2" Tube Butt Weld	0.71 (18.0)	0.67 (17.0)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	2.84 (72.1)
-HHD-MTD10-	10 mm Tube Butt Weld	0.71 (18.0)	0.67 (17.0)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	2.84 (72.1)
-HHD-MTD12-	12 mm Tube Butt Weld	0.71 (18.0)	0.67 (17.0)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	2.84 (72.1)
-HHD-FRM8-	1/2" Male Face Seal Fitting	0.71 (18.0)	0.81 (20.6)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	3.12 (79.3)
-HHD-FT6-	3/8" Tube Fitting	0.71 (18.0)	0.76 (19.3)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	3.02 (76.7)
-HHD-FT8-	1/2" Tube Fitting	0.71 (18.0)	0.86 (21.8)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	3.22 (81.7)
-HHD-MT6-	10 mm Tube Fitting	0.71 (18.0)	0.76 (19.3)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	3.02 (76.7)
-HHD-MT8-	12 mm Tube Fitting	0.71 (18.0)	0.86 (21.8)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	3.22 (81.7)
-HHD-FRF8-	1/2" Female Face Seal Fitting	0.71 (18.0)	0.94 (23.9)	1.50 (38.1)	2.28 (58)	3.06 (77.8)	3.38 (85.9)

Flow Paths

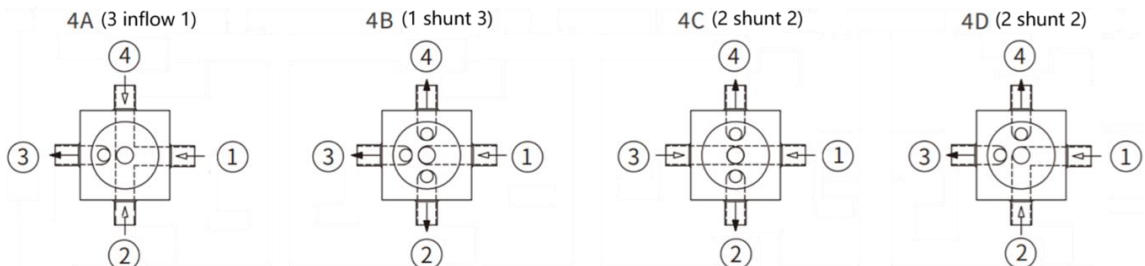
2 Flow



3 Flow



4 Flow



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ABS



ROKE

Valves ,Fittings and Tubing

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