



*We are one-stop total solution provider of
UHP gas delivering components*

www.asflow.com

Headquarters / R&D Center

38, Jeongnamsandan-ro, Jeongnam-myeon, Hwaseong-si, Gyeonggi-do, Korea (18514)
TEL. 82-31-352-2301 FAX. 82-31-352-2309

Sales Office

B - 3321, 27, Dongtancheomdansaneop 1-ro, Hwaseong-si, Gyeonggi-do, Korea (18469)



VALVES REGULATORS

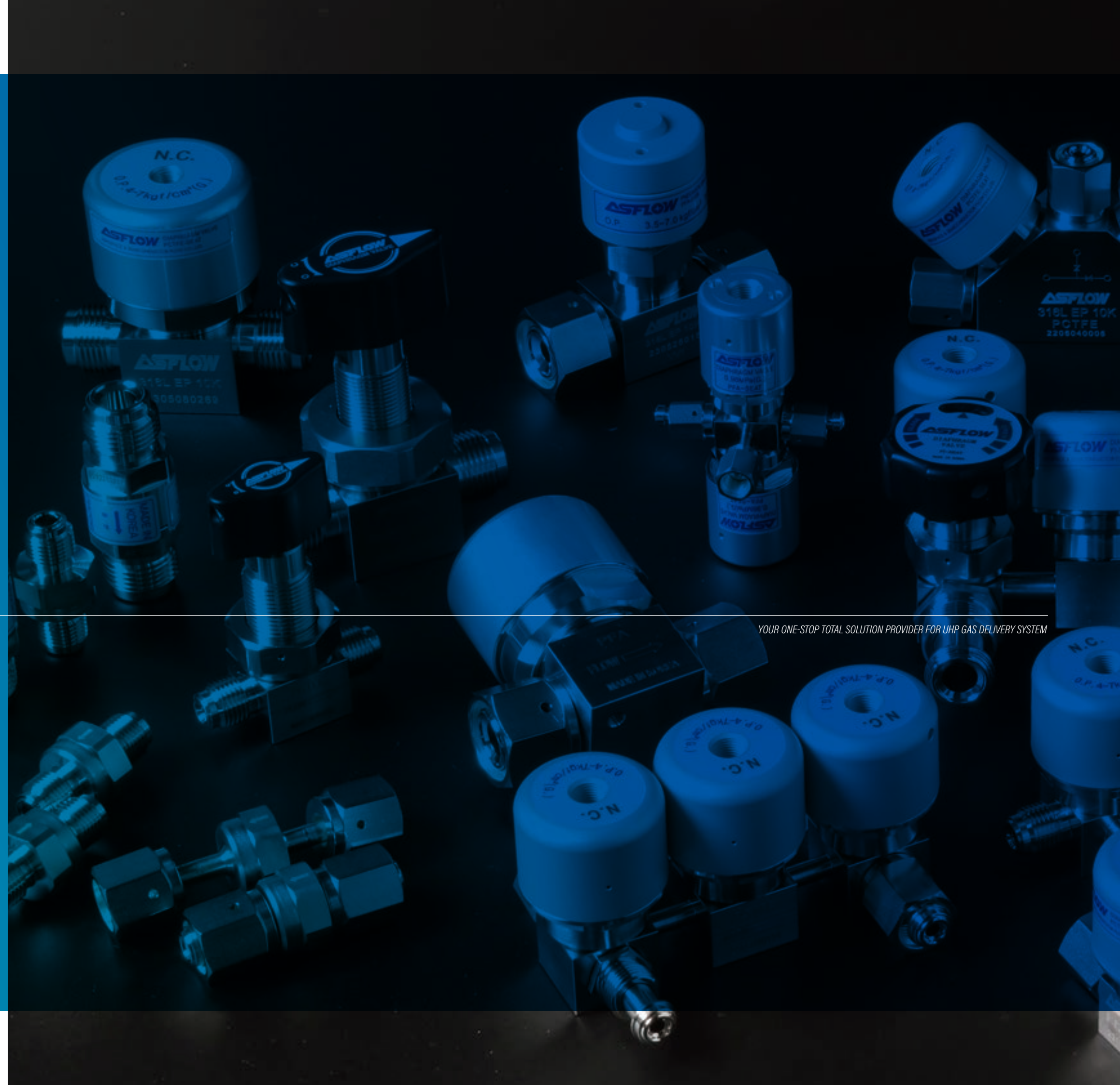
Your One-stop Total Solution Provider for UHP Gas Delivery System

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YOUR ONE-STOP TOTAL SOLUTION PROVIDER FOR UHP GAS DELIVERY SYSTEM



Valves

ASFLOW Valves are of the quality that they can handle the high-purity gases used in semiconductor production facilities, and they also have high durability and high corrosion resistance performance



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26	28	30	32	34
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36	38	40	42	44
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46	48	50	52	54
Forged Manual Bellows Valve (1/4"~3/4")	Forged Manual Bellows Valve (15A~50A)	Square Pneumatic Bellows Valve	Forged Pneumatic Bellows Valve	Casting Bellows Valve
				

Forged Manual Diaphragm Valve

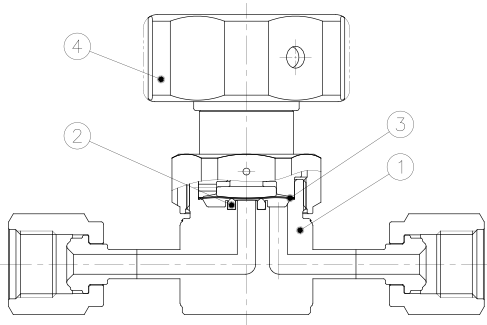


Specification

Size	1/4"	3/8"	1/2"	3/4"
Cv Value	0.3	0.7	0.7	0.7
Orifice Size(mm)	4	7	7	7
Max. Working Pressure	1 MPa			
Max. Working Temp.	PCTFE		-10 °C ~ 80 °C	
	PFA		-10 °C ~ 150 °C	
	PI		-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec			
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec			
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count			

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Handle	ABS HI121



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

FDV	04		MV		E		S		-	PFA	
Product	Size		Connection		Grade		Material		-	Seat Material	
FDV	04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		NONE	PCTFE
	06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		PFA	PFA
	08	1/2"	LOK	Lok						PI	PI
	12	3/4"	BW	Butt Weld							

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
	Male	1/4"	57	28	65	11	45	17
		3/8"	77	38	79	16	45	28
		1/2"	77	38	79	16	45	28
		3/4"	122	38	85	22	45	28
	Female	1/4"	78	28	65	11	45	17
		3/8"	104.6	38	79	16	45	28
		1/2"	104.6	38	79	16	45	28
		3/4"	122	38	85	22	45	28
	Lok	1/4"	55	28	65	11	45	17
		3/8"	70	38	79	16	45	28
		1/2"	70	38	79	16	45	28
		3/4"	84	38	85	22	45	28
	Butt Weld	1/4"	54	28	65	11	45	17
		3/8"	69	38	79	16	45	28
		1/2"	69	38	79	16	45	28
		3/4"	150	38	85	22	45	28

Forged Pneumatic Diaphragm Valve

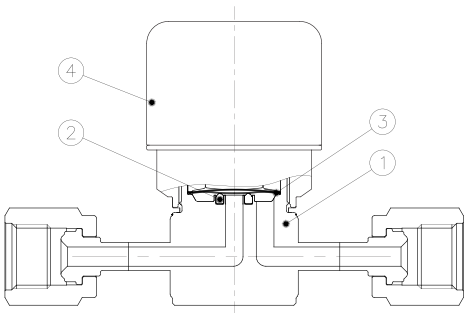


Specification

Size	1/4"	3/8"	1/2"	3/4"
Cv Value	0.3	0.7	0.7	0.7
Orifice Size (mm)	4	7	7	7
Max. Working Pressure	1 MPa			
Operating Pressure	0.4 ~ 0.7 MPa			
Max. Working Temp.	PCTFE		-10 °C ~ 80 °C	
	PFA		-10 °C ~ 150 °C	
	PI		-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec			
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec			
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 _µ m and Larger	No Count			

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

NDV		04		MV		AC		E		S		-	PFA	
Product		Size		Connection		Actuation		Grade		Material		-	Seat Material	
NDV		04	1/4"	MV	Male	AC	Normal Close	E	EP	D	SUS316L Double Melt		NONE	PCTFE
		06	3/8"	FV	Female	AO	Normal Open	B	BA	S	SUS316L Single Melt		PFA	PFA
		08	1/2"	LOK	Lok								PI	PI
		12	3/4"	BW	Butt Weld									

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
	Male	1/4"	57	28	64	11	39.6	17
		3/8"	77	38	79.4	16	52	28
		1/2"	77	38	79.4	16	52	28
		3/4"	122	38	85.4	22	52	28
	Female	1/4"	78	28	64	11	39.6	17
		3/8"	104.6	38	79.4	16	52	28
		1/2"	104.6	38	79.4	16	52	28
		3/4"	122	38	85.4	22	52	28
	Lok	1/4"	55	28	64	11	39.6	17
		3/8"	70	38	79.4	16	52	28
		1/2"	70	38	79.4	16	52	28
		3/4"	84	38	85.4	22	52	28
	Butt Weld	1/4"	54	28	64	11	39.6	17
		3/8"	69	38	79.4	16	52	28
		1/2"	69	38	79.4	16	52	28
		3/4"	150	38	85.4	16	52	28

Square Manual Diaphragm Valve

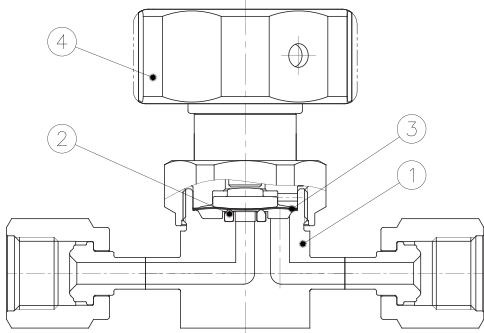


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.27	0.7	0.7
Orifice Size(mm)	4	7	7
Max. Working Pressure	1 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Handle	ABS HI121



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

MDV		04		MV		E		S		-	PFA	
Product	Size		Connection		Grade		Material		-	Seat Material		
MDV	04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		NONE	PCTFE	
	06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		PFA	PFA	
	08	1/2"	LOK	Lok						PI	PI	
			BW	Butt Weld								

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	57	26	64.1	11	45	25.4	25
		3/8"	77	36	77	16	45	28	36
		1/2"	77	36	77	16	45	28	36
	Female	1/4"	70.6	26	64.1	11	45	25.4	25
		3/8"	83	36	77	16	45	28	36
		1/2"	83	36	77	16	45	28	36
	Lok	1/4"	48	26	64.1	11	45	25.4	25
		3/8"	64	36	77	16	45	28	36
		1/2"	64	36	77	16	45	28	36
	Butt Weld	1/4"	54	26	64.1	11	45	25.4	25
		3/8"	69	36	77	16	45	28	36
		1/2"	69	36	77	16	45	28	36

Square Pneumatic Diaphragm Valve

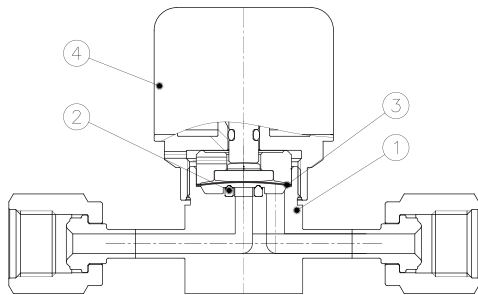


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.27	0.7	0.7
Orifice Size (mm)	4	7	7
Max. Working Pressure	1 MPa		
Operating Pressure	0.4 ~ 0.7 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

Product	Size		Connection		Actuation		Grade		Material		-	Seat Material	
PDV	04	1/4"	MV	Male	AC	Normal Close	E	EP	D	SUS316L Double Melt		NONE	PCTFE
	06	3/8"	FV	Female	AO	Normal Open	B	BA	S	SUS316L Single Melt		PFA	PFA
	08	1/2"	LOK	Lok								PI	PI
			BW	Butt Weld									

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	57	26	62.9	11	39.6	25.4	25
		3/8"	77	36	77.4	16	52	28	36
		1/2"	77	36	77.4	16	52	28	36
	Female	1/4"	70.6	26	62.9	11	39.6	25.4	25
		3/8"	83	36	77.4	16	52	28	36
		1/2"	83	36	77.4	16	52	28	36
	Lok	1/4"	48	26	62.9	11	39.6	25.4	25
		3/8"	64	36	77.4	16	52	28	36
		1/2"	64	36	77.4	16	52	28	36
	Butt Weld	1/4"	54	26	62.9	11	39.6	25.4	25
		3/8"	69	36	77.4	16	52	28	36
		1/2"	69	36	77.4	16	52	28	36

Branch Manual Diaphragm Valve

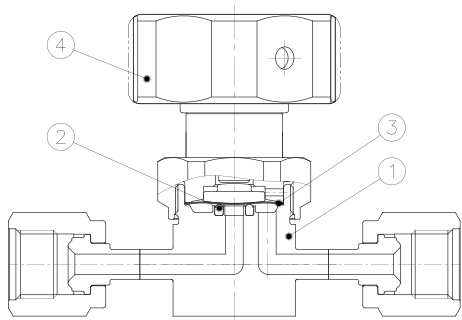


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.27	0.7	0.7
Orifice Size (mm)	4	7	7
Max. Working Pressure	1 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Handle	ABS HI121



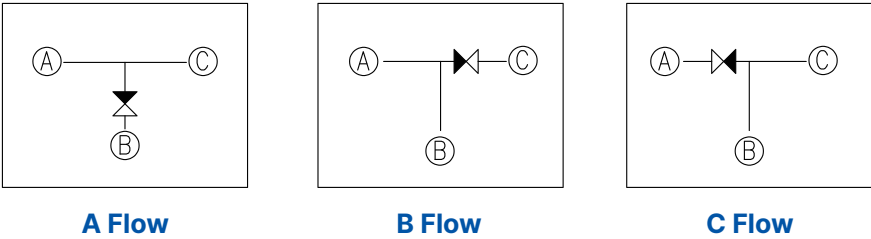
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

MDVB		04		MV		E		S		-		PFA		-		A	
Product		Size		Connection		Grade		Material		-		Seat Material		-		Flow Direction	
MDVB		04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt			NONE	PCTFE			A	A Flow
		06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt			PFA	PFA			B	B Flow
		08	1/2"	BW	Butt Weld							PI	PI			C	C Flow

Flow



Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
	Male	1/4"	57	26	64.1	11	45	25.4	25	28
		1/2"	77	36	77	16	45	28	36	38.5
	Female	1/4"	70.6	26	64.1	11	45	25.4	25	34.8
		1/2"	83	36	77	16	45	28	36	41.5
	Butt Weld	1/4"	54	26	64.1	11	45	25.4	25	27
		3/8"	69	36	77	16	45	28	36	34.5
		1/2"	69	36	77	16	45	28	36	34.5

Branch Pneumatic Diaphragm Valve

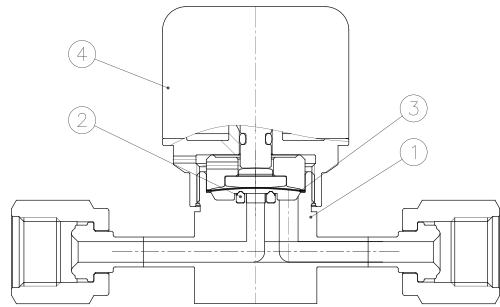


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.27	0.7	0.7
Orifice Size (mm)	4	7	7
Max. Working Pressure	1 MPa		
Operating Pressure	0.4 ~ 0.7 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



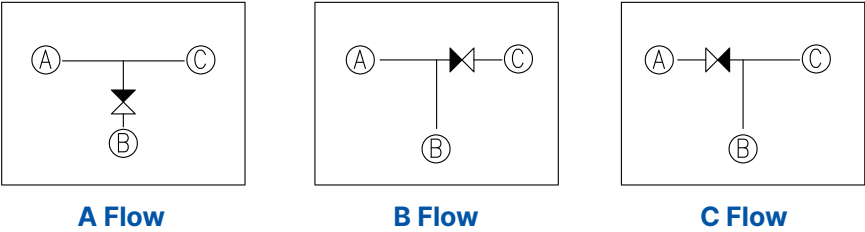
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

PDVB		04		MV		AC		E		S		-		PFA		-		A	
Product		Size		Connection		Actuation		Grade		Material		-		Seat Material		-		Flow Direction	
PDVB		04	1/4"	MV	Male	AC	Normal Close	E	EP	D	SUS316L Double Melt			NONE	PCTFE			A	A Flow
		06	3/8"	FV	Female	AO	Normal Open	B	BA	S	SUS316L Single Melt			PFA	PFA			B	B Flow
		08	1/2"	BW	Butt Weld									PI	PI			C	C Flow

Flow



Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
	Male	1/4"	57	26	62.9	11	45	25.4	25	28
		1/2"	77	36	77.4	16	45	28	36	38.5
	Female	1/4"	70.6	26	62.9	11	45	25.4	25	34.8
		1/2"	83	36	77.4	16	45	28	36	41.5
	Butt Weld	1/4"	54	26	62.9	11	45	25.4	25	27
		3/8"	69	36	77.4	16	45	28	36	34.5
		1/2"	69	36	77.4	16	45	28	36	34.5

Block Manual Diaphragm Valve

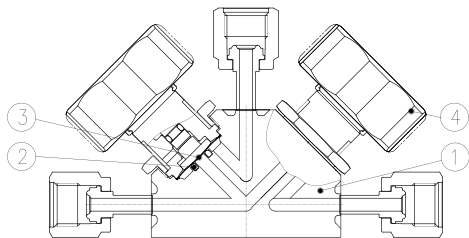


Specification

Size	1/4"	1/2"
Cv Value	0.22	0.7
Orifice Size(mm)	4	7
Max. Working Pressure	1 MPa	
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C
	PFA	-10 °C ~ 150 °C
	PI	-10 °C ~ 150 °C
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count	

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Handle	ABS HI121



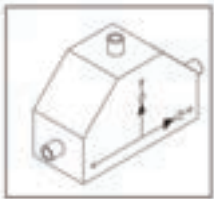
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

BMDV		04		MR		1V25		E		S	
Product		Size		Connection		Flow		Grade		Material	
BMDV		04	1/4"	MR	Rotatable Male	1V25		E	EP	D	SUS316L Double Melt
		08	1/2"	FV	Female	5V12		B	BA	S	SUS316L Single Melt
						1H23					
						3H12					

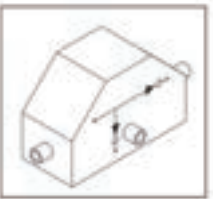
Flow



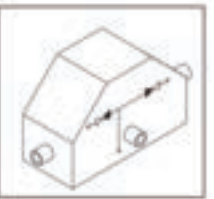
"1V25" Type



"5V12" Type



"1H23" Type



"3H12" Type

Dimension

Model	Flow	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
	1V25	Rotatable Male	1/4"	124.2	64	71.8	11	121.5	62.1	26	15	40
	5V12											
	1H23	Rotatable Male	1/4"	124.2	64	71.8	11	121.5	43.1	26	15	40
	3H12											
	1V25	Female	1/4"	107.6	64	71.8	11	121.5	53.8	26	15	40
	5V12											
	1H23	Female	1/4"	107.6	64	71.8	11	121.5	34.8	26	15	40
	3H12											

Block Pneumatic Diaphragm Valve

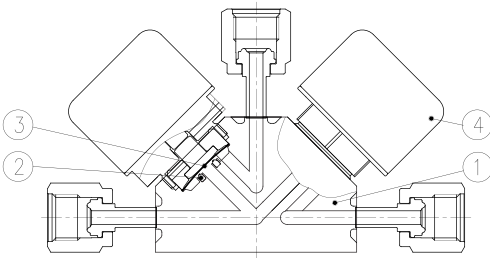


Specification

Size	1/4"	1/2"
Cv Value	0.22	0.7
Orifice Size (mm)	4	7
Max. Working Pressure	1 MPa	
Operating Pressure	0.4 ~ 0.7 MPa	
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C
	PFA	-10 °C ~ 150 °C
	PI	-10 °C ~ 150 °C
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count	

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



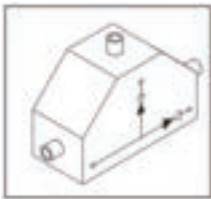
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

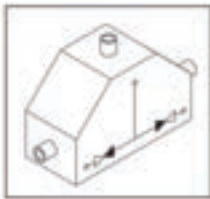
Ordering Information

BNDV		04		MR		1V25		AC		E		S	
Product	Size		Connection		Flow	Actuation		Grade		Material			
BNDV	04	1/4"	MR	Rotatable Male	1V25	AC	Normal Close	E	EP	D	SUS316L Double Melt		
	08	1/2"	FV	Female	5V12	AO	Normal Open	B	BA	S	SUS316L Single Melt		
					1H23								
					3H12								

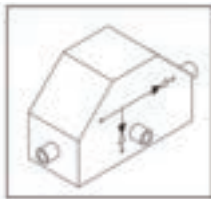
Flow



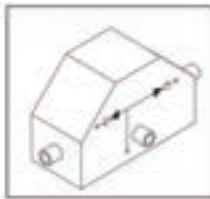
"1V25" Type



"5V12" Type



"1H23" Type



"3H12" Type

Dimension

Model	Flow	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
	1V25	Rotatable Male	1/4"	124.2	64	70.7	11	119.4	62.1	26	15	40
	5V12											
	1H23	Rotatable Male	1/4"	124.2	64	70.7	11	119.4	43.1	26	15	40
	3H12											
	1V25	Female	1/4"	107.6	64	70.7	11	119.4	53.8	26	15	40
	5V12											
	1H23	Female	1/4"	107.6	64	70.7	11	119.4	34.8	26	15	40
	3H12											

Monoblock Flicker Pneumatic Diaphragm Valve

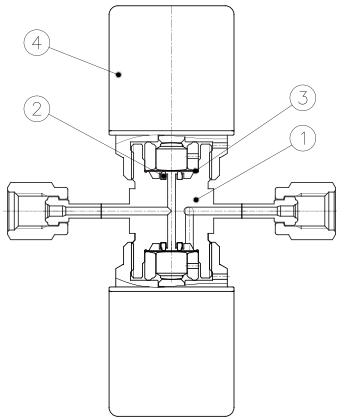


Specification

Size	1/8"	1/4"	1/2"
Cv Value	0.04	0.22	0.7
Orifice Size (mm)	1.75	4	7
Max. Working Pressure	1 MPa		
Operating Pressure	0.4 ~ 0.7 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



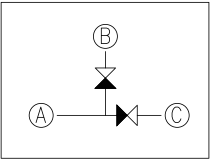
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

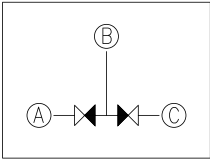
Ordering Information

MBDV		04		MV		AC		E		S		-		PFA		-		A			
Product		Size		Connection		Actuation		Grade		Material		-		Seat Material		-		Flow Direction			
MBDV		02	1/8"	MV	Male	AC	Normal Close	E	EP	D	SUS316L Double Melt	NONE		PCTFE				A		A Flow	
		04	1/4"	FV	Female	AO	Normal Open	B	BA	S	SUS316L Single Melt			PFA				PFA	B		B Flow
		08	1/2"											PI				PI			

Flow



A Flow



B Flow

Dimension

Model	Connection	Flow	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	A	1/8"	41	20.5	92	28	20.5	15	13
			1/4"	57	28.5	112.8	39.6	28.5	21	25.4
		B	1/8"	41	20.5	92	28	20.5	15	13
			1/4"	57	28.5	112.8	39.6	28.5	21	25.4
	Female	A	1/8"	56	28	92	28	28	15	13
			1/4"	69.6	34.8	112.8	39.6	34.8	21	25.4
			1/2"	83	41.5	124.8	52	41.5	40	20
		B	1/8"	56	28	92	28	28	15	13
			1/4"	69.6	34.8	112.8	39.6	34.8	21	25.4
			1/2"	83	41.5	124.8	52	41.5	40	20

Shut-off Manual Diaphragm Valve

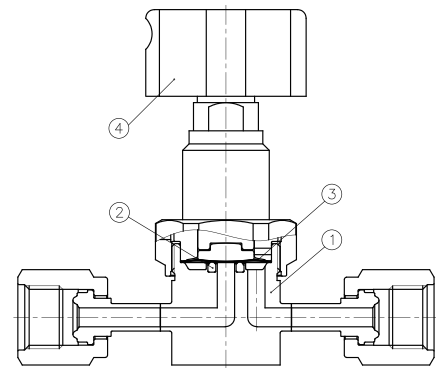


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.27	0.7	0.7
Orifice Size (mm)	4	7	7
Max. Working Pressure	1 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Handle	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

SODV	04	MV		E		S		-	PFA		
Product	Size		Connection		Grade		Material		-	Seat Material	
SODV	04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		NONE	PCTFE
	06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		PFA	PFA
	08	1/2"	LOK	Lok						PI	PI
			BW	Butt Weld							

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	57	26	82	11	37	25.4	25
		3/8"	77	36	101	16	52	28	36
		1/2"	77	36	101	16	52	28	36
	Female	1/4"	70.6	26	82	11	37	25.4	25
		3/8"	83	36	101	16	52	28	36
		1/2"	83	36	101	16	52	28	36
	Lok	1/4"	48	26	82	11	37	25.4	25
		3/8"	64	36	101	16	52	28	36
		1/2"	64	36	101	16	52	28	36
	Butt Weld	1/4"	54	26	82	11	37	25.4	25
		3/8"	69	36	101	16	52	28	36
		1/2"	69	36	101	16	52	28	36

Loto Shut-off Manual Diaphragm Valve

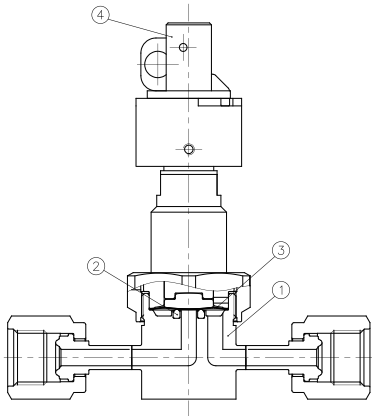


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.27	0.7	0.7
Orifice Size (mm)	4	7	7
Max. Working Pressure	1 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 <i>µ</i> m and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Handle	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

MLDV		04		MV		E		S		-	PFA	
Product		Size		Connection		Grade		Material		-	Seat Material	
MLDV		04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		NONE	PCTFE
		06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		PFA	PFA
		08	1/2"	LOK	Lok						PI	PI
				BW	Butt Weld							
				MR	Rotatable Male							

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	57	26	100	11	Ø28	Ø25.4	25
		3/8"	77	36	120	16	Ø45	Ø28	36
		1/2"	77	36	120	16	45	28	36
	Female	1/4"	70.6	26	100	11	28	Ø5.4	25
		3/8"	83	36	120	16	45	28	36
		1/2"	83	36	120	16	45	28	36
	Lok	1/4"	48	26	100	11	28	25.4	25
		3/8"	64	36	120	16	45	28	36
		1/2"	64	36	120	16	45	28	36
	Butt Weld	1/4"	54	26	100	11	28	25.4	25
		3/8"	69	36	120	16	45	28	36
		1/2"	69	36	120	16	45	28	36
	Rotatable Male	1/4"	70.6	26	100	11	35	25.4	25
		3/8"	83	36	120	16	55	28	36
		1/2"	83	36	120	16	55	28	36

High Durability Pneumatic Diaphragm Valve

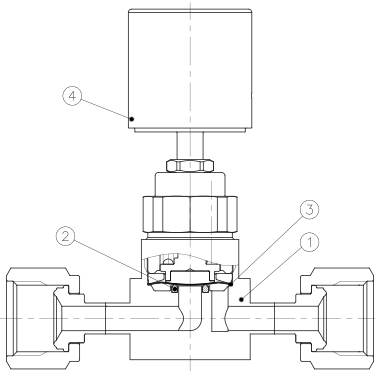


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.4	0.6	0.6
Orifice Size (mm)	7	7	7
Max. Working Pressure	1 MPa		
Operating Pressure	0.45 ~ 0.6 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 5 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 5 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μ m and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

HDPDV		04		MV		AC		E		S		-		PFA	
Product	Size		Connection		Actuation		Grade		Material		-	Seat Material			
HDPDV	04	1/4"	MV	Male	AC	Normal Close	E	EP	D	SUS316L Double Melt		NONE	PCTFE		
	06	3/8"	FV	Female	AO	Normal Open	B	BA	S	SUS316L Single Melt		PFA	PFA		
	08	1/2"										PI	PI		

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
	Male	1/4"	68	37	108	11.1	38	20.2	20.2	35
		3/8"	76.2	37	108	11.1	38	20.2	20.2	35
		1/2"	76.2	37	108	11.1	38	20.2	20.2	35
	Female	1/4"	82.6	37	108	12.7	38	20.2	20.2	35
		3/8"	83.5	37	108	12.7	38	20.2	20.2	35
		1/2"	83.5	37	108	12.7	38	20.2	20.2	35

High Pressure Manual Diaphragm Valve

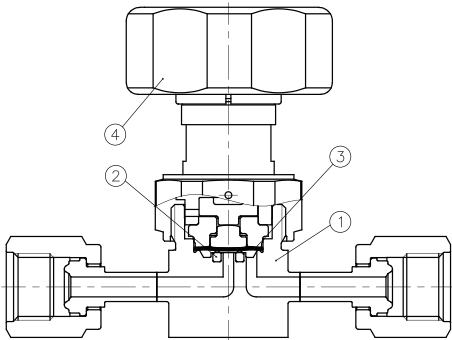


Specification

Size	1/4"	1/2"
Cv Value	0.1	0.25
Orifice Size (mm)	2.3	3.8
Max. Working Pressure	20.6 MPa	
Max. Working Temp.	PCTFE	-10 °C ~ 42 °C
	PFA	-10 °C ~ 42 °C
	PI	-10 °C ~ 150 °C
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count	

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	ELGILOY®
4	Handle	ABS



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

HPMDV		04		MV		E		S		-			
Product		Size		Connection		Grade		Material		-		Seat Material	
HPMDV		04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		NONE PCTFE		
		06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		PFA PFA		
		08	1/2"	LOK	Lok						PI PI		
				BW	Butt Weld								

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	57	26	72	11	45	25.4	25
		3/8"	77	36	100	16	45	28	36
		1/2"	77	36	100	16	45	28	36
	Female	1/4"	70.6	26	72	11	45	25.4	25
		3/8"	83	36	100	16	45	28	36
		1/2"	83	36	100	16	45	28	36
	Lok	1/4"	48	26	72	11	45	25.4	25
		3/8"	64	36	100	16	45	28	36
		1/2"	64	36	100	16	45	28	36
	Butt Weld	1/4"	54	26	72	11	45	25.4	25
		3/8"	69	36	100	16	45	28	36
		1/2"	69	36	100	16	45	28	36

High Pressure Pneumatic Diaphragm Valve

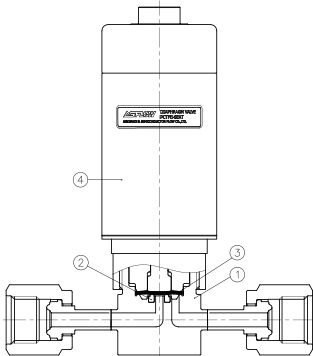


Specification

Size	1/4"	1/2"
Cv Value	0.1	0.25
Orifice Size (mm)	2.3	3.8
Max. Working Pressure	20.6 MPa	
Max. Working Temp.	PCTFE	-10 °C ~ 42 °C
	PFA	-10 °C ~ 42 °C
	PI	-10 °C ~ 150 °C
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count	

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	ELGILOY®
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

HPPDV		04		MV		AC		E		S		-		
Product		Size		Connection		Actuation		Grade		Material		-	Seat Material	
HPPDV		04	1/4"	MV	Male	AC	Normal Close	E	EP	D	SUS316L Double Melt		NONE	PCTFE
		06	3/8"	FV	Female	AO	Normal Open	B	BA	S	SUS316L Single Melt		PFA	PFA
		08	1/2"	LOK	Lok								PI	PI
				BW	Butt Weld									

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	57	26	109	11	36	25.4	25
		3/8"	77	36	120	16	36	28	36
		1/2"	77	36	120	16	36	28	36
	Female	1/4"	70.6	26	109	11	36	25.4	25
		3/8"	83	36	120	16	36	28	36
		1/2"	83	36	120	16	36	28	36
	Lok	1/4"	48	26	109	11	36	25.4	25
		3/8"	64	36	120	16	36	28	36
		1/2"	64	36	120	16	36	28	36
	Butt Weld	1/4"	54	26	109	11	36	25.4	25
		3/8"	69	36	120	16	36	28	36
		1/2"	69	36	120	16	36	28	36

High Flow Manual Diaphragm Valve

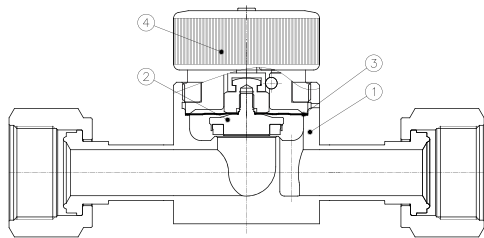


Specification

Size	3/4"	1"
Cv Value	3.5	3.5
Orifice Size (mm)	20	20
Max. Working Pressure	1.86 MPa	
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count	

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE
3	Diaphragm	ELGILOY®
4	Actuator	Aluminum



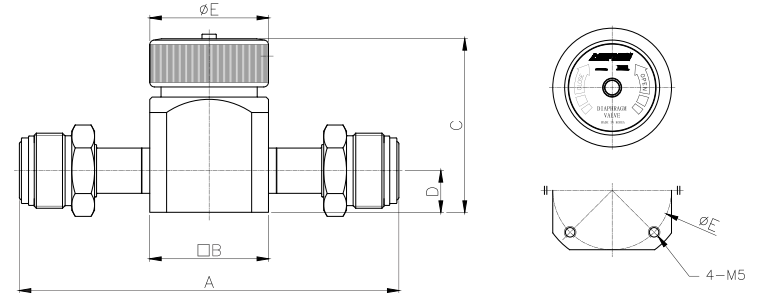
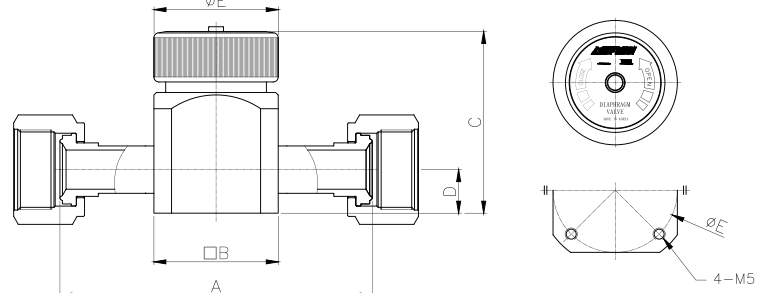
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

Product	Size	Connection	Grade	Material
HFDV	12	MR	E	SUS316L Double Melt
	16	FV	B	SUS316L Single Melt

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
	Rotatable Male	3/4"	159.8	50	74	17.5	50
		1"	173.4	50	74	17.5	50
	Female	3/4"	125.6	50	74	17.5	50
		1"	133.8	50	74	17.5	50

Hybrid Diaphragm Valve

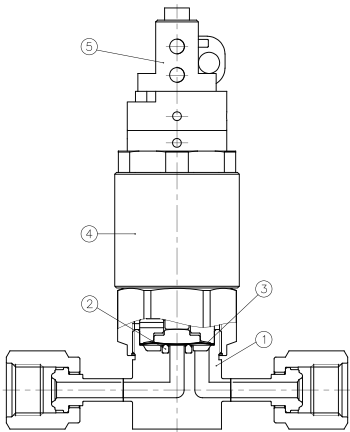


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.27	0.7	0.7
Orifice Size (mm)	4	7	7
Max. Working Pressure	1 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PFA / PI
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum
5	Handle	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

HDV	04	MV		E		S		-			
Product	Size		Connection		Grade		Material		-	Seat Material	
HDV	04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		NONE	PCTFE
	06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		PFA	PFA
	08	1/2"	LOK	Lok						PI	PI
			BW	Butt Weld							
			MR	Rotatable Male							

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	57	26	120	11	35	25.4	25
		3/8"	77	36	140	16	55	28	36
		1/2"	77	36	140	16	55	28	36
	Female	1/4"	70.6	26	120	11	35	25.4	25
		3/8"	83	36	140	16	55	28	36
		1/2"	83	36	140	16	55	28	36
	Lok	1/4"	48	26	120	11	35	25.4	25
		3/8"	64	36	140	16	55	28	36
		1/2"	64	36	140	16	55	28	36
	Butt Weld	1/4"	54	26	120	11	35	25.4	25
		3/8"	69	36	140	16	55	28	36
		1/2"	69	36	140	16	55	28	36
	Rotatable Male	1/4"	70.6	26	120	11	35	25.4	25
		3/8"	83	36	140	16	55	28	36
		1/2"	83	36	140	16	55	28	36

UHD Valve 3 Series (UHD3 / UHD3T)

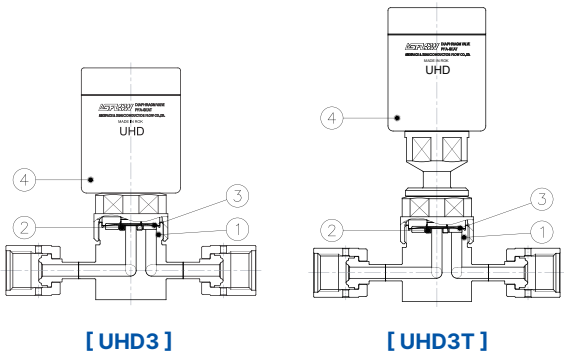


Specification

Size	UHD3 / UHD3T	
Size	1/4"	1.125"
Cv Value	0.27	
Orifice Size (mm)	4	
Max. Working Pressure	1 MPa	
Max. Working Temp.	PFA	0 °C ~ 120 °C (Standard Temp.)
		0 °C ~ 200 °C (High Temp.)
Internal Leakage	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.		
External Leakage	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.		
Particle Inspection	No Count	
Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger		

Materials

No.	Parts	Materials
1	Body	SUS316L (Double Melt)
2	Seat	PFA
3	Diaphragm	ELGILOY®
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

UHD3	04	MV	-	AC	E	D	-	PFA
Product	Size	Connection	Way	Actuator	Grade	Material	-	Seat Material
UHD3	04 1/4"	MV Male	NONE 2 Port	AC Normal Close	E EP	D SUS316L Double Melt		PFA PFA
UHD3T	11 1.125"	FV Female	3 3 Port (only for IGS type)					
		MR Rotatable Male						
		BW Butt Weld						
		C C-Seal (only for IGS type)						

Dimension

UHD3	UHD3T	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
					UHD3	UHD3T			
					UHD3T	UHD3T			
		Male	1/4"	58.4	26.9	88.7	11.2	38	25.4
		Female	1/4"	70.6	26.9	88.7	11.2	38	25.4
		Rotatable Male	1/4"	70.6	26.9	88.7	11.2	38	25.4
		Butt Weld	1/4"	44.2	26.9	88.7	11.2	38	25.4
		C-Seal (2 Port)	1/4"	44.2	26.9	88.7	11.2	38	25.4
		C-Seal (3 Port)	1.125"	28.6	86.4	111.8	6.5	28.5	21.8
			1.125"	28.6	86.4	111.8	6.5	28.5	21.8

UHD Valve 6 Series (UHD6 / UHD6T)

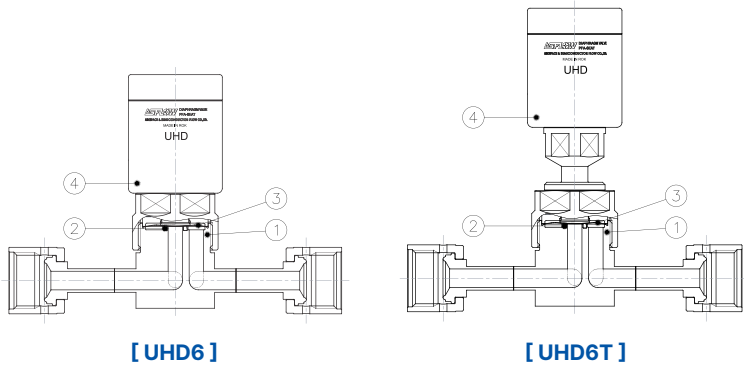


Specification

Size	UHD6 / UHD6T	
Size	1/2"	1.5"
Cv Value	0.62	
Orifice Size (mm)	5.8	
Max. Working Pressure	1 MPa	
Max. Working Temp.	PFA	0 °C ~ 120 °C (Standard Temp.)
		0 °C ~ 200 °C (High Temp.)
Internal Leakage	≤ 1 × 10 ⁻⁸ mbar.l/sec	
Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.		
External Leakage	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Test Pressure ≤ 1 × 10 ⁻² Torr Holding Time ≥ 15 sec.		
Particle Inspection	No Count	
Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger		

Materials

No.	Parts	Materials
1	Body	SUS316L (Double Melt)
2	Seat	PFA
3	Diaphragm	ELGILOY®
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

UHD6		08		FV		-		AC		E		D		-		PFA	
Product		Size		Connection		Way		Actuator		Grade		Material		-		Seat Material	
UHD6		08	1/2"	FV	Female	NONE	2 Port	AC	Normal Close	E	EP	D	SUS316L Double Melt			PFA	PFA
UHD6T		15	1.5"	MR	Rotatable Male	3	3 Port (only for IGS type)										
				BW	Butt Weld												
				C	C-Seal (only for IGS type)												

Dimension

UHD6	UHD6T	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
					UHD6	UHD6T			
					UHD6T	UHD6T			
		Female	1/2"	106	31.8	94.4	11.2	38	25.4
						119.8			
		Rotatable Male	1/2"	106	31.8	94.4	11.2	38	25.4
						119.8			
		Butt Weld	1/2"	57.2	31.8	94.4	11.2	38	25.4
						119.8			
		C-Seal (2 Port)	1.5"	38.2	79.8	8	38	30.2	11.6
						105.2			
		C-Seal (3 Port)	1.5"	38.2	79.8	8	38	30.2	11.6
						105.2			

Threaded Check Valve

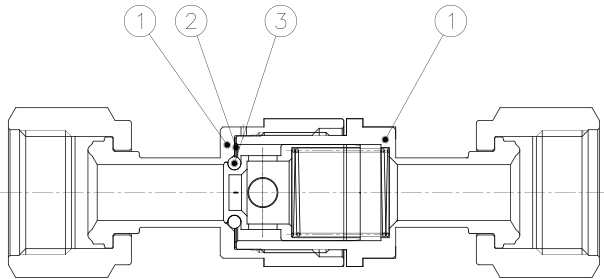


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.35	1.1	1.1
Max. Working Pressure	16.2 MPa		
Craking Pressure	2.26 kPa		
Back Pressure Seal	29.4 kPa		
Max. Working Temp.	-10 °C ~ 80 °C		
Internal Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Gasket	SUS316L
3	Seat O-Ring	FFKM



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

CV		04		MV		E		S	
Product	Size		Connection		Grade		Material		
CV	04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt	
	06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt	
	08	1/2"	LOK	Lok					

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)
	Male	1/4"	19	56.4	25.4
		1/2"	24	69	32
	Female	1/4"	19	70	25.4
		1/2"	24	79	32
	Lok	1/4"	19	46	25.4
		3/8"	24	55.9	32
		1/2"	24	57.8	32

Welded Check Valve

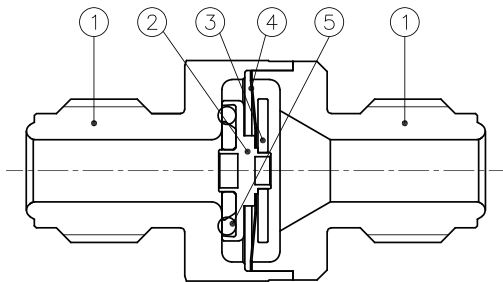


Specification

Size	1/4"	1/2"
Cv Value	0.55	0.7
Max. Working Pressure	20.6 MPa	
Craking Pressure	14 kPa	
Back Pressure Seal	28 kPa	
Max. Working Temp.	-10 °C ~ 80 °C	
Internal Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁹ mbar.l/sec	
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count	

Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	SUS316L (Single Melt)
3	Piston Stopper	SUS316L (Single Melt)
4	Spring	ELGILOY®
5	O-Ring	FKM / EPDM



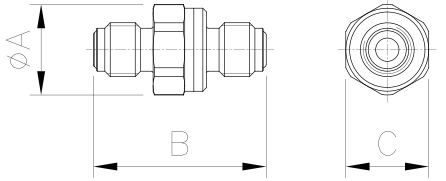
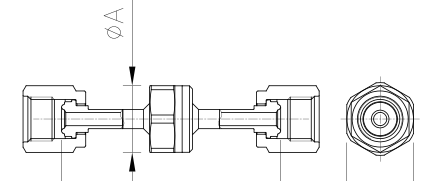
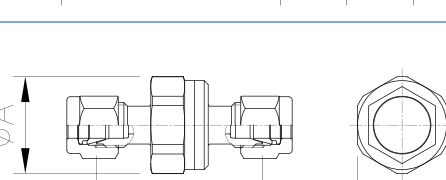
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

WCV		04		MV		E		S		-	F	
Product		Size		Connection		Grade		Material		-	O-Ring Material	
WCV		04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		F	FKM
		06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		E	EPDM
		08	1/2"	LOK	Lok							

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)
	Male	1/4"	19	56.4	25.4
		1/2"	24	69	32
	Female	1/4"	19	70	25.4
		1/2"	24	79	32
	Lok	1/4"	19	46	25.4
		3/8"	24	57.8	32

Forged Manual Bellows Valve (1/4" ~ 3/4")

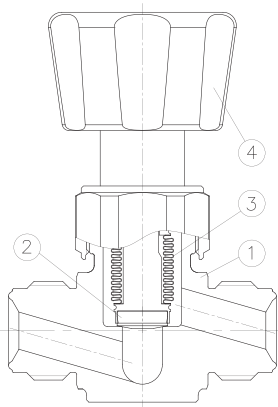


Specification

Size	1/4"	3/8"	1/2"	3/4"
Cv Value	0.36	1.1	1.1	2.6
Orifice Size(mm)	4.5	8	8	12
Max. Working Pressure	1 MPa			
Max. Working Temp.	PCTFE		-10 °C ~ 80 °C	
	PI		-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 4 × 10 ⁻⁹ mbar.l/sec			
External Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 4 × 10 ⁻⁹ mbar.l/sec			
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μ m and Larger	No Count			

Materials

No.	Parts	Materials	
1	Body	SUS304 / SUS316L (Single Melt / Double Melt)	
2	Disk	PCTFE / PI	
3	Bellows	SUS316L	
4	Handle	1/4" ~ 1/2"	ABS HI121
		3/4"	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

BV		04		MV		E		S		-	PFA	
Product		Size		Connection		Grade		Material		-	O-Ring Material	
BV		04	1/4"	MV	Male	E	EP	D	SUS316L Double Melt		NONE	PCTFE
		06	3/8"	FV	Female	B	BA	S	SUS316L Single Melt		PI	PI
		08	1/2"	LOK	Lok			3	SUS304			
		12	3/4"	BW	Butt Weld							

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	58	14	79	43	23	25	M5
		3/8"	60	16	85	43			
		1/2"	60	16	85	43			
		3/4"	86	22	121	65	32	34	
	Female	1/4"	70.5	14	79	43	23	25	M5
		3/8"	90	16	85	43			
		1/2"	90	16	85	43			
		3/4"	115	22	121	65	32	34	
	Lok	1/4"	50	14	79	43	23	25	M5
		3/8"	63	16	85	43			
		1/2"	63	16	85	43			
		3/4"	100	22	121	65	32	34	
	Butt Weld	1/4"	150	14	85	43	23	25	M5
		3/8"	150	16	85	43			
		1/2"	150	16	85	43			
		3/4"	158	22	121	65	32	34	

Forged Manual Bellows Valve (15A ~ 50A)

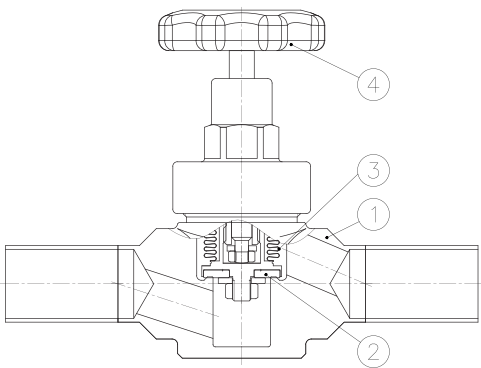


Specification

Size	15A	1"	20A	1 -1/4"	1 -1/2"	25A	32A	2"	40A	50A
Cv Value	2.9	4.1	4.1	6.9	6.9	6.9	16	16	16	21
Orifice Size (mm)	15	19	19	25	25	25	40	40	40	45
Max. Working Pressure	1 MPa									
Max. Working Temp.	PTFE					-10°C ~ 80°C				
Internal Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁵ mbar.l/sec									
External Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁵ mbar.l/sec									
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count									

Materials

No.	Parts	Materials	
1	Body	SUS304 / SUS316L (Single Melt / Double Melt)	
2	Disk	PTFE	
3	Bellows	SUS316L	
4	Handle	15A ~ 25A	Aluminum
		32A ~ 50A	SCS13



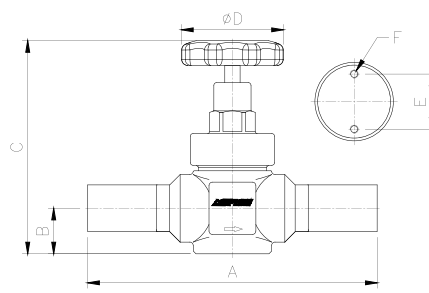
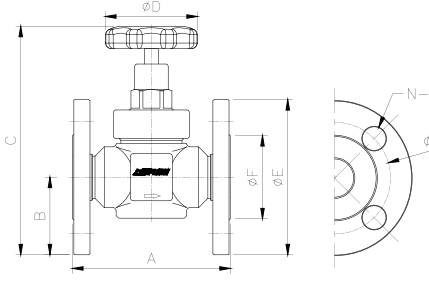
Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

Product	Size				Connection		Grade		Material	
BV	15A	15A	25A	25A	BW	Butt Weld	E	EP	D	SUS316L Double Melt
	16	1"	32A	32A	FL	Flanged	B	BA	S	SUS316L Single Melt
	20A	20A	32	2"					3	SUS304
	20	1 -1/4"	40A	40A						
	24	1-1/2"	50A	50A						

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	N-H (mm)
	Butt Weld	15A	190	24	125	65	30	M6		
		1"	200	28	140	65	35	M6		
		20A	200	28	140	65	35	M6		
		1 -1/4"	210	33	160	77	40	M6		
		1 -1/2"	210	33	160	77	40	M6		
		25A	210	33	160	77	40	M6		
		32A	270	51	260	125	60	M6		
		2"	270	51	260	125	60	M6		
		40A	270	51	260	125	60	M6		
		50A	295	61	295	160				
	Flange	15A	108	47.5	148.5	65	95	51	70	4-ø 15
		1"	117	50	162	65	100	56	75	4-ø 15
		20A	117	50	162	65	100	56	75	4-ø 15
		1 -1/4"	127	62.5	191	77	125	67	90	4-ø 19
		1 -1/2"	127	62.5	191	77	125	67	90	4-ø 19
		25A	127	62.5	191	77	125	67	90	4-ø 19
		32A	165	67.5	276.5	125	135	76	100	4-ø 19
		2"	165	70	279	125	140	81	105	4-ø 19
		40A	165	70	279	125	140	81	105	4-ø 19
		50A	203	77.5	311.5	160	155	96	120	4-ø 19

Square Pneumatic Bellows Valve

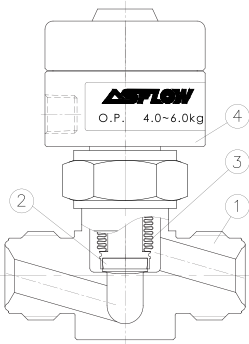


Specification

Size	1/4"	3/8"	1/2"
Cv Value	0.36	1.1	1.1
Orifice Size(mm)	4.5	8	8
Max. Working Pressure	1 MPa		
Operating Pressure	0.35 ~ 0.7 MPa		
Max. Working Temp.	PCTFE	-10 °C ~ 80 °C	
	PFA	-10 °C ~ 150 °C	
	PI	-10 °C ~ 150 °C	
Internal Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 4 × 10 ⁻⁹ mbar.l/sec		
External Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 4 × 10 ⁻⁹ mbar.l/sec		
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count		

Materials

No.	Parts	Materials
1	Body	SUS304 / SUS316L (Single Melt / Double Melt)
2	Disk	PCTFE / PFA / PI
3	Bellows	SUS316L
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

PBV		04		MV		AC		E		S		-		PFA	
Product		Size		Connection		Actuation		Grade		Material		-		Seat Material	
PBV		04	1/4"	MV	Male	AC	Normal Close	E	EP	D	SUS316L Double Melt		NONE	PCTFE	
		06	3/8"	FV	Female	AO	Normal Open	B	BA	S	SUS316L Single Melt		PFA	PFA	
		08	1/2"	LOK	Lok					3	SUS304		PI	PI	
				BW	Butt Weld										

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
	Male	1/4"	58	14	82.6	40	23	25	M5
		3/8"	60	16	88.7	40.6	23	25	
		1/2"	60	16	88.7	40.6	23	25	
	Female	1/4"	70.5	14	82.6	40	23	25	M5
		3/8"	90	14	86.7	40.6	23	25	
		1/2"	90	14	86.7	40.6	23	25	
	Lok	1/4"	50	14	82.6	40	23	25	M5
		3/8"	63	14	86.7	40.6	23	25	
		1/2"	63	14	86.7	40.6	23	25	
	Butt Weld	1/4"	150	14	89.1	40	23	25	M5
		3/8"	150	14	86.7	40.6	23	25	
		1/2"	150	14	86.7	40.6	23	25	

Forged Pneumatic Bellows Valve

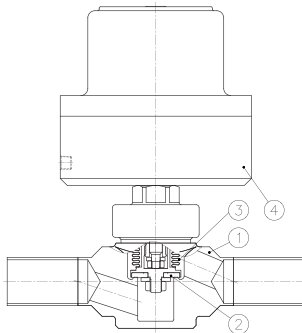


Specification

Size	15A	1"	20A	1 -1/4"	1 -1/2"	25A	32A	2"	40A	50A
Cv Value	2.9	4.1	4.1	6.9	6.9	6.9	16	16	16	21
Orifice Size (mm)	15	19	19	25	25	25	40	40	40	45
Max. Working Pressure	1 MPa									
Operating Pressure	0.4 ~ 0.7 MPa									
Max. Working Temp.	PTFE					-10 °C ~ 80 °C				
Internal Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁵ mbar.l/sec									
External Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 × 10 ⁻⁵ mbar.l/sec									
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count									

Materials

No.	Parts	Materials
1	Body	SUS304 / SUS316L (Single Melt / Double Melt)
2	Disk	PTFE
3	Bellows	SUS316L
4	Actuator	Aluminum



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

Product	Size				Connection		Actuation		Grade		Material	
PBV	15A	15A	25A	25A	BW	Butt Weld	AC	Normal Close	E	EP	D	SUS316L Double Melt
	16	1"	32A	32A	FL	Flanged	AO	Normal Open	B	BA	S	SUS316L Single Melt
	20A	20A	32	2"							3	SUS304
	20	1 -1/4"	40A	40A								
	24	1 -1/2"	50A	50A								

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	N-H (mm)
	Butt Weld	15A	190	24	204	110	30	M6		
		1"	200	28	215	135	35	M6		
		20A	200	28	215	135	35	M6		
		1 -1/4"	210	33	227	135	40	M6		
		1 -1/2"	210	33	227	135	40	M6		
		25A	210	33	227	135	40	M6		
		32A	270	51	360	188	60	M6		
		2"	270	51	360	188	60	M6		
		40A	270	51	360	188	60	M6		
		50A	295	61	383	220				
	Flange	15A	108	47.5	228	110	95	51	70	4-ø 15
		1"	117	50	237	135	100	56	75	4-ø 15
		20A	117	50	237	135	100	56	75	4-ø 15
		1 -1/4"	127	62.5	256	135	125	67	90	4-ø 19
		1 -1/2"	127	62.5	256	135	125	67	90	4-ø 19
		25A	127	62.5	256	135	125	67	90	4-ø 19
		32A	165	67.5	376.5	188	135	76	100	4-ø 19
		2"	165	70	379	188	140	81	105	4-ø 19
		40A	165	70	379	188	140	81	105	4-ø 19
		50A	203	77.5	400	220	155	96	120	4-ø 19

Casting Bellows Valve

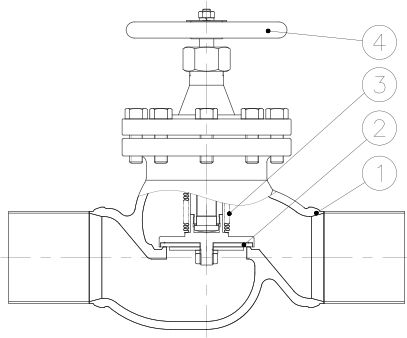


Specification

Size	65A	80A	100A	125A	150A	200A	250A	300A	350A	400A	450A	500A
Cv Value	81	132	200	302	434	772	1200	1600	2000	2650	3100	3400
Orifice Size (mm)	65	80	100	124	148	200	250	300	350	400	450	490
Max. Working Pressure	1 MPa											
Max. Working Temp.	PTFE						-10 °C ~ 80 °C					
Internal Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 x 10 ⁻⁵ mbar.l/sec											
External Leakage Test Pressure ≤ 1 x 10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1 x 10 ⁻⁵ mbar.l/sec											
Particle Inspection Pressure :30 ~ 60 psi N ₂ Gas Sample Volume : 1 CFM / 0.1 μm and Larger	No Count											

Materials

No.	Parts	Materials
1	Body	SCS13 / SCS16
2	Disk	PTFE
3	Bellows	SUS316L
4	Handle	SCS13



Surface Roughness

BA	EP
Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm
Cut off Length : 0.8 mm	Cut off Length : 0.25 mm
Measuring Length : 4 mm	Measuring Length : 1.25 mm
Bright Annealed	Electro Polished

Ordering Information

Product	Size				Connection		Grade		Material	
CBV	65A	65A	250A	250A	BW	Butt Weld	E	EP	S	SCS16
	80A	80A	300A	300A	FL	Flanged	B	BA	3	SCS13
	100A	100A	350A	350A						
	125A	125A	400A	400A						
	150A	150A	450A	450A						
	200A	200A	500A	500A						

Dimension

Model	Connection	Size	A (mm)	B (mm)	C (mm)	D (mm)
	Butt Weld	65A	416	68	347	160
		80A	441	80	387	200
		100A	492	94	423	200
		125A	556	111	616	300
		150A	606	126	632	300
		200A	795	157	847	400
		250A	1022	190	1085	450
		300A	1100	216	1228	500
		350A	1187	241	1286	710
		400A	1314	268	1318	710
	Flange	450A	1440	305	1454	800
		500A	1440	327.5	1625	800
		65A	216	87.5	367	160
		80A	241	92.5	394	200
		100A	292	105	487	200
		125A	356	125	630	300
		150A	406	140	646	300
		200A	495	165	855	400
		250A	622	200	1095	450
		300A	698	222.5	1235	500
		350A	787	245	1290	710
		400A	914	280	1330	710
		450A	1040	310	1579	800
		500A	1040	338	1630	800

Regulators

ASFLOW Regulators feature excellent stability and accuracy for pressure control to be used in special high purity gas line, bulk gas, equipment and gas cabinets



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Regulator 100 Series



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Regulator 200 Series



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Regulator 300 Series



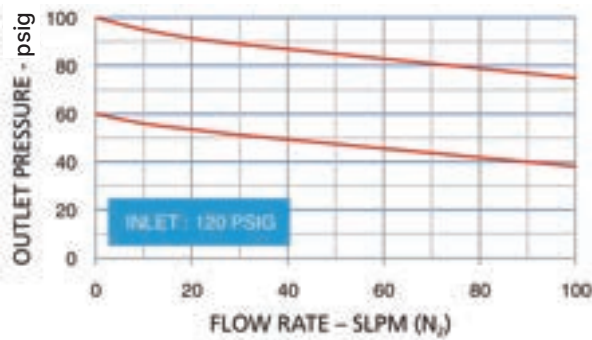
Regulator 100 Series



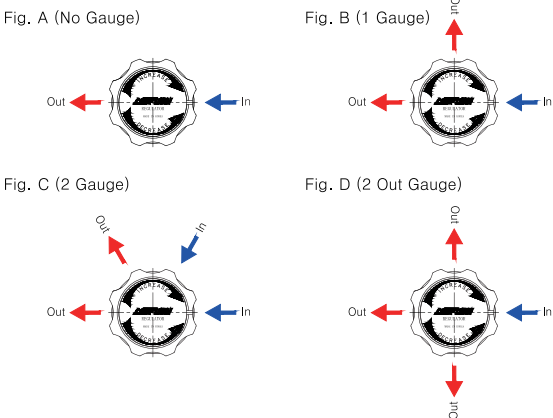
Specification

Max. Rated Inlet Pressure	600 psig (41 bar)	
Outlet Pressure Ranges	1 ~ 30 psig (2.1 bar) 1 ~ 60 psig (4.1 bar) 1 ~ 100 psig (6.9 bar) 1 ~ 150 psig (10.3 bar)	
Design Proof Pressure	150% of Maximum rated pressure	
Operating Temperature	PCTFE	-20 °C ~ 80 °C
	PI	-20 °C ~ 170 °C
Certified Inboard Leak Rate	1 × 10 ⁻⁹ mbar-l/sec	
Flow Capacity (Cv)	0.06 (3500 psig) / 0.2 (600 psig)	
Weight (without gauges)	0.9 kg	
Internal Surface Finish	BA	EP
	Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm

Flow Curves

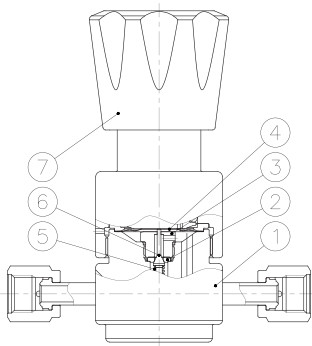


Porting Configurations



Materials

No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PCTFE / PI
3	Seat Holder	SUS316L
4	Diaphragm	Hastelloy C-22
5	Poppet Spring	SUS316L
6	Poppet	SUS316L
7	Handle	ABS HI121



Ordering Information

AR-100		04		MV		2		3		B				E		S	
Product	Connection Size		Connection Type		Max. Inlet Pressure		Outlet Pressure Range		Gauge Port Option				Grade		Material		
AR100 Series	04	1/4"	MV	Male	2	600 psig	0	1 ~ 30 psig	A	No Gauge Port (Fig.A)	H	1/4" Female (Fig.B)	B	BA	S	SUS316L Single Melt	
			FV	Female			1	1 ~ 60 psig	B	1/4" Internal Seal (Fig.B)	I	1/4" Female (Fig.C)	E	EP	D	SUS316L Double Melt	
			LOK	Lok			2	1 ~ 100 psig	C	1/4" Internal Seal (Fig.C)	J	1/4" Female (Fig.D)					
			BW	Butt Weld			3	1 ~ 150 psig	D	1/4" Internal Seal (Fig.D)	K	1/4" Female NPT (Fig.B)					
			NP	Female NPT Thread					E	1/4" Male (Fig.B)	L	1/4" Female NPT (Fig.C)					
									F	1/4" Male (Fig.C)	M	1/4" Female NPT (Fig.D)					
									G	1/4" Male (Fig.D)							

Dimension

Model	Size	Connection	A (mm)
	1/4"	Male	94
		Female	94
		Lok	95
		Butt Weld	76
		Female NPT Thread	49

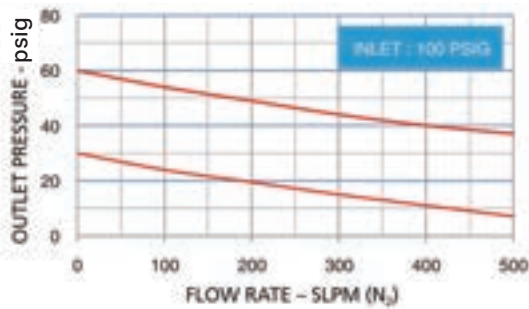
Regulator 200 Series



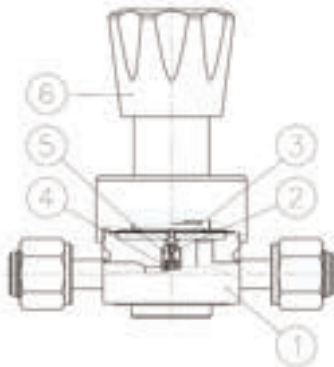
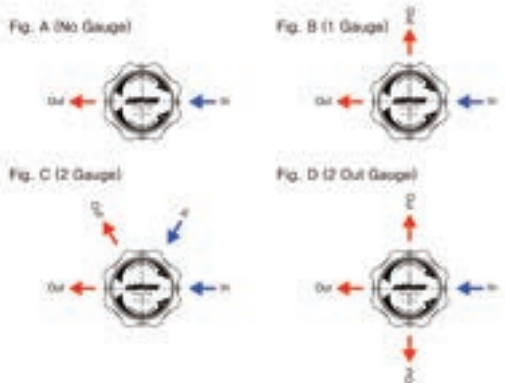
Specification

Max. Rated Inlet Pressure	600 psig (41 bar)	
Outlet Pressure Ranges	1 ~ 30 psig (2.1 bar) 1 ~ 60 psig (4.1 bar) 1 ~ 100 psig (6.9 bar) 1 ~ 150 psig (10.3 bar)	
Design Proof Pressure		
Operating Temperature	PCTFE	-20 °C ~ 80 °C
	PI	-20 °C ~ 170 °C
Certified Inboard Leak Rate	1 × 10 ⁻⁹ mbar-l/sec	
Flow Capacity (Cv)	0.5	
Weight (without gauges)	1.6 kg	
Internal Surface Finish	BA	EP
	Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm

Flow Curves



Porting Configurations



Ordering Information

AR-200		06		MV		3		3		B				E		S	
Product	Connection Size		Connection Type		Max. Inlet Pressure		Outlet Pressure Range		Gauge Port Option				Grade		Material		
AR200 Series	06	3/8"	MV	Male	3	600 psig	0	1 ~ 30 psig	A	No Gauge Port (Fig.A)	H	1/4" Female (Fig.B)	B	BA	S	SUS316L Single Melt	
	08	1/2"	FV	Female			1	1 ~ 60 psig	B	1/4" Internal Seal (Fig.B)	I	1/4" Female (Fig.C)	E	EP	D	SUS316L Double Melt	
			LOK	Lok			2	1 ~ 100 psig	C	1/4" Internal Seal (Fig.C)	J	1/4" Female (Fig.D)					
			BW	Butt Weld			3	1 ~ 150 psig	D	1/4" Internal Seal (Fig.D)	K	1/4" Female NPT (Fig.B)					
			NP	Female NPT Thread					E	1/4" Male (Fig.B)	L	1/4" Female NPT (Fig.C)					
									F	1/4" Male (Fig.C)	M	1/4" Female NPT (Fig.D)					
									G	1/4" Male (Fig.D)							

Dimension

Model	Size	Connection	A (mm)
	3/8"	Lok	116.4
	1/2"	Male	142
		Female	142
		Lok	116.4
		Butt Weld	94
		Female NPT Thread	49

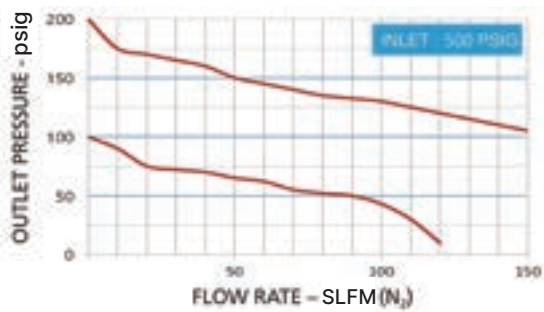
Regulator 300 Series



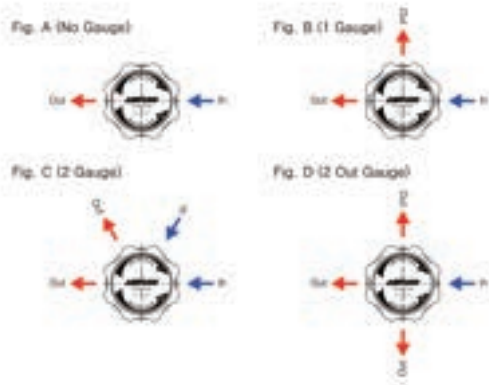
Specification

Max. Rated Inlet Pressure	500 psig (34.4 bar)	
Outlet Pressure Ranges	1 ~ 25 psig (1.7 bar) 1 ~ 50 psig (3.4 bar) 1 ~ 100 psig (6.9 bar) 1 ~ 150 psig (10.3 bar)	
Design Proof Pressure	150% of Maximum rated pressure	
Operating Temperature	PFA	-26 °C ~ 74 °C
Certified Inboard Leak Rate	1 × 10 ⁻⁹ mbar-l/sec	
Flow Capacity (Cv)	1.0	
Weight (without gauges)	1.7 kg	
Internal Surface Finish	BA	EP
	Ra ≤ 10 μinch Ry ≤ 3.0 μm	Ra ≤ 5 μinch Ry ≤ 0.7 μm

Flow Curves

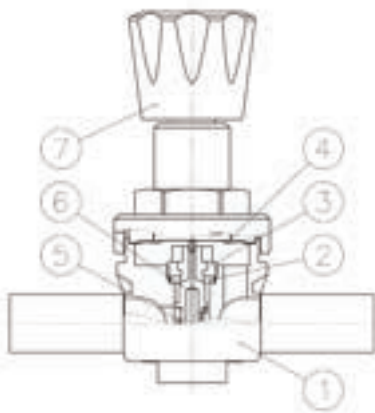


Porting Configurations



Materials

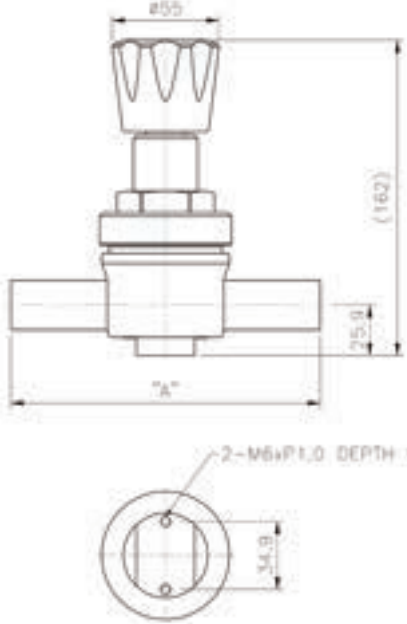
No.	Parts	Materials
1	Body	SUS316L (Single Melt / Double Melt)
2	Seat	PFA
3	Seat Holder	SUS316L
4	Diaphragm	Hastelloy C-22
5	Poppet Spring	SUS316L
6	Poppet	SUS316L
7	Handle	ABS HI121



Ordering Information

AR-300		08		MV		4		3		B				E		S	
Product		Connection Size		Connection Type		Max. Inlet Pressure		Outlet Pressure Range		Gauge Port Option				Grade		Material	
AR300 Series		08	1/2"	MV	Male	4	500 psig	0	1 ~ 25 psig	A	No Gauge Port (Fig.A)	H	1/4" Female (Fig.B)	B	BA	S	SUS316L Single Melt
		12	3/4"	FV	Female			1	1 ~ 50 psig	B	1/4" Internal Seal (Fig.B)	I	1/4" Female (Fig.C)	E	EP	D	SUS316L Double Melt
		16	1"	LOK	Lok			2	1 ~ 100 psig	C	1/4" Internal Seal (Fig.C)	J	1/4" Female (Fig.D)				
				BW	Butt Weld			3	1 ~ 150 psig	D	1/4" Internal Seal (Fig.D)	K	1/4" Female NPT (Fig.B)				
				NP	Female NPT Thread					E	1/4" Male (Fig.B)	L	1/4" Female NPT (Fig.C)				
										F	1/4" Male (Fig.C)	M	1/4" Female NPT (Fig.D)				
										G	1/4" Male (Fig.D)						

Dimension

Model	Size	Connection	A (mm)
	1/2"	Female	142
		Butt Weld	95
	3/4"	Female	144
		Lok	126
		Butt Weld	210
	1"	Female	177
		Lok	150
		Butt Weld	210