

3A PVE - Divert Valve

Used for opening / closing or changing the fluids path

- ✓ Spherical shape with zero dead leg
- ✓ Easy to maintain with standard O-Ring
- ✓ Fast changeover from N/C to N/O fail position
- ✓ Clamp connection between the valve parts
- ✓ Butt weld or clamp ends
- ✓ Minimum gasket exposure
- ✓ Visual bleeding hole to inspect leaks
- ✓ Hygienic modules

N/C and N/O operations in one actuator

Minimal exposure of the O-ring to the flow

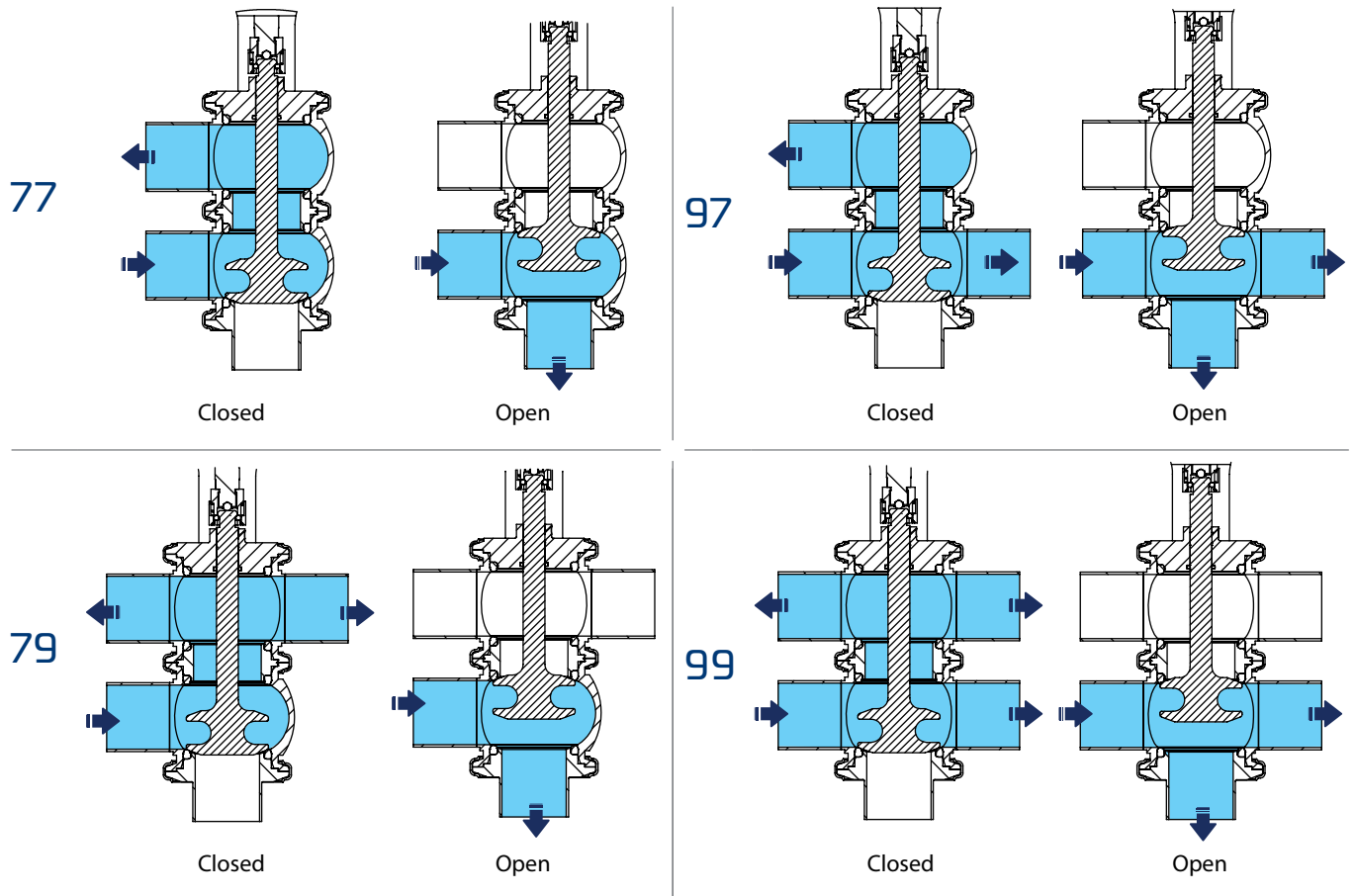
Robust, ball-shaped body made of AISI 316L stainless-steel (made from full bar)

Static O-ring to minimize wear and erosion

Optimum CIP cleaning due to ball shape and surfaces - no dead spaces



Configuration and Flow direction options



How To Order

E	G	P	V	E	-	7	7	-	N	C	-	1	.	0	-	V	-	A	S	I
Valve Type				Valve Configuration				Actuation Type				Size		Seals		Control Head				

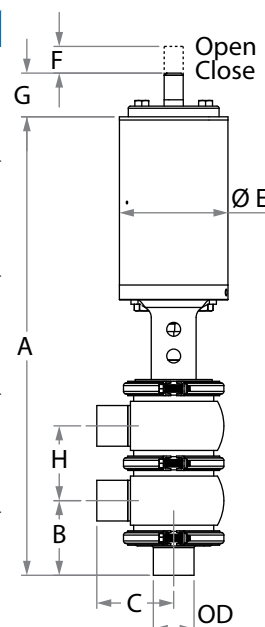
Type Connection	Valve Configuration	Actuation Type	Size	Seals	Control Head
EGPVE - CLAMP EPVE - WELD	77 - Divert 79 - Divert 97 - Divert 99 - Divert	NC NO MAN	1.0 1.5 2.0 2.5 3.0 4.0	DEFAULT - EPDM V - Viton S - Silicone	ASI 24V 110V 1IPS - One Inductive Proximity Switch 2IPS - Two Inductive Proximity Switch (Proximity Switch Diameter 12mm)

* See page 26 for Control head details

3A PVE Divert Valve Dimensions

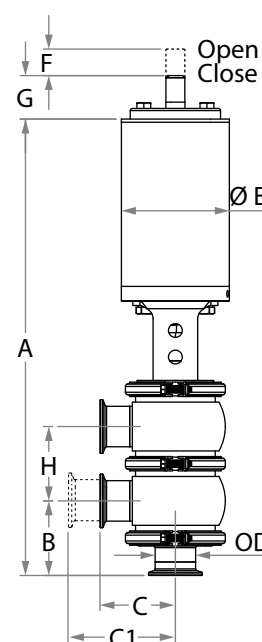
Weld Ends (77)

Size/OD		Name	Item	A	B	C	E	G	H	F
1" (25.4)	Epdm	EPVE-77-NC-1.0	611-00688	13.00	2.00	2.00	2.76	1.18	1.97	0.39
	Viton	EPVE-77-NC-1.0-V	611-00866	(330.2)	(50.8)	(50.8)	(70)	(30)	(50)	(10)
	Silicone	EPVE-77-NC-1.0-S	611-00942							
1½" (38.1)	Epdm	EPVE-77-NC-1.5	611-00020	16.38	2.24	2.76	4.00	1.38	2.76	0.96
	Viton	EPVE-77-NC-1.5-V	611-00863	(416)	(57)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EPVE-77-NC-1.5-S	611-00943							
2" (50.8)	Epdm	EPVE-77-NC-2.0	611-00041	17.76	3.00	3.50	4.00	1.38	3.11	0.96
	Viton	EPVE-77-NC-2.0-V	611-00475	(451)	(76.2)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EPVE-77-NC-2.0-S	611-00944							
2½" (63.5)	Epdm	EPVE-77-NC-2.5	611-00494	20.28	3.00	3.50	5.08	1.69	3.94	1.33
	Viton	EPVE-77-NC-2.5-V	611-00055	(515)	(76.2)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EPVE-77-NC-2.5-S	611-00945							
3" (76.2)	Epdm	EPVE-77-NC-3.0	611-00442	21.85	3.27	3.74	5.08	1.54	4.76	1.36
	Viton	EPVE-77-NC-3.0-V	611-00065	(555)	(83)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EPVE-77-NC-3.0-S	611-00946							
4" (101.6)	Epdm	EPVE-77-NC-4.0	611-00875	27.32	5.00	4.92	6.61	1.65	5.91	1.18
	Viton	EPVE-77-NC-4.0-V	611-00888	(694)	(127)	(125)	(168)	(42)	(150)	(30)
	Silicone	EPVE-77-NC-4.0-S	611-00947							



Clamp Ends (77)

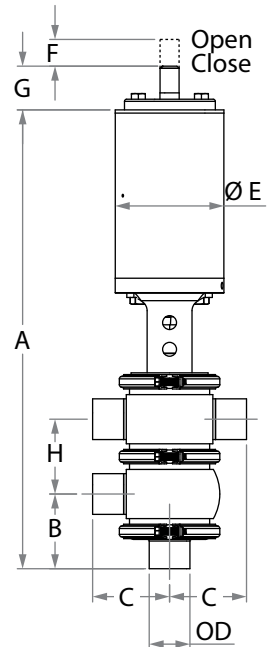
Size/OD		Name	Item	A	B	C	E	G	H	F
1"* (25.4)	Epdm	EGPVE-77-NC-1.0	611-00749	12.91	2.00	2.00	2.76	1.26	1.89	0.39
	Viton	EGPVE-77-NC-1.0-V	611-00861	(328)	(50.8)	(50.8)	(70)	(32)	(48)	(10)
	Silicone	EGPVE-77-NC-1.0-S	611-00902							
1½" (38.1)	Epdm	EGPVE-77-NC-1.5	611-00018	16.89	2.76	2.76	4.00	1.38	2.76	0.96
	Viton	EGPVE-77-NC-1.5-V	611-00768	(429)	(70)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EGPVE-77-NC-1.5-S	611-00903							
2" (50.8)	Epdm	EGPVE-77-NC-2.0	611-00039	18.27	3.50	3.50	4.00	1.38	3.11	0.96
	Viton	EGPVE-77-NC-2.0-V	611-00769	(464)	(89)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EGPVE-77-NC-2.0-S	611-00904							
2½" (63.5)	Epdm	EGPVE-77-NC-2.5	611-00053	20.75	3.50	3.50	5.08	1.69	3.94	1.33
	Viton	EGPVE-77-NC-2.5-V	611-00862	(527)	(89)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EGPVE-77-NC-2.5-S	611-00905							
3" (76.2)	Epdm	EGPVE-77-NC-3.0	611-00063	22.36	3.74	3.74	5.08	1.54	4.76	1.36
	Viton	EGPVE-77-NC-3.0-V	611-00591	(568)	(95)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EGPVE-77-NC-3.0-S	611-00906							
4" (101.6)	Epdm	EGPVE-77-NC-4.0	611-00874	27.32	5.00	4.88	6.61	1.65	5.91	1.18
	Viton	EGPVE-77-NC-4.0-V	611-00885	(694)	(127)	(124)	(168)	(42)	(150)	(30)
	Silicone	EGPVE-77-NC-4.0-S	611-00907							



* 1" Valve with long Clamp
C1=3.0

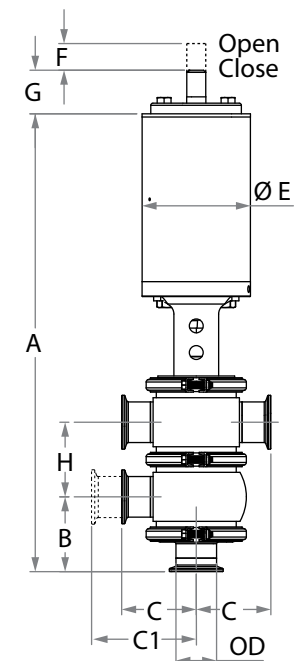
Weld Ends (79)

Size/OD		Name	Item	A	B	C	E	G	H	F
1" (25.4)	Epdm	EPVE-79-NC-1.0	611-00690	13.00	2.00	2.00	2.76	1.18	1.97	0.39
	Viton	EPVE-79-NC-1.0-V	611-00831	(330.2)	(50.8)	(50.8)	(70)	(30)	(50)	(10)
	Silicone	EPVE-79-NC-1.0-S	611-00948							
1½" (38.1)	Epdm	EPVE-79-NC-1.5	611-00474	16.38	2.24	2.76	4.00	1.38	2.76	0.96
	Viton	EPVE-79-NC-1.5-V	611-00028	(416)	(57)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EPVE-79-NC-1.5-S	611-00949							
2" (50.8)	Epdm	EPVE-79-NC-2.0	611-00413	17.76	3.00	3.50	4.00	1.38	3.11	0.96
	Viton	EPVE-79-NC-2.0-V	611-00032	(451)	(76.2)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EPVE-79-NC-2.0-S	611-00950							
2½" (63.5)	Epdm	EPVE-79-NC-2.5	611-00513	20.28	3.00	3.50	5.08	1.69	3.94	1.33
	Viton	EPVE-79-NC-2.5-V	611-00049	(515)	(76.2)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EPVE-79-NC-2.5-S	611-00951							
3" (76.2)	Epdm	EPVE-79-NC-3.0	611-00515	21.85	3.27	3.74	5.08	1.54	4.76	1.36
	Viton	EPVE-79-NC-3.0-V	611-00835	(555)	(83)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EPVE-79-NC-3.0-S	611-00952							
4" (101.6)	Epdm	EPVE-79-NC-4.0	611-00878	27.32	5.00	4.92	6.61	1.65	5.91	1.18
	Viton	EPVE-79-NC-4.0-V	611-00889	(694)	(127)	(125)	(168)	(42)	(150)	(30)
	Silicone	EPVE-79-NC-4.0-S	611-00953							



Clamp Ends (79)

Size/OD		Name	Item	A	B	C	E	G	H	F
1"* (25.4)	Epdm	EGPVE-79-NC-1.0	611-00759	12.91	2.00	2.00	2.76	1.26	1.89	0.39
	Viton	EGPVE-79-NC-1.0-V	611-00794	(328)	(50.8)	(50.8)	(70)	(32)	(48)	(10)
	Silicone	EGPVE-79-NC-1.0-S	611-00908							
1½" (38.1)	Epdm	EGPVE-79-NC-1.5	611-00490	16.89	2.76	2.76	4.00	1.38	2.76	0.96
	Viton	EGPVE-79-NC-1.5-V	611-00796	(429)	(70)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EGPVE-79-NC-1.5-S	611-00909							
2" (50.8)	Epdm	EGPVE-79-NC-2.0	611-00491	18.27	3.50	3.50	4.00	1.38	3.11	0.96
	Viton	EGPVE-79-NC-2.0-V	611-00798	(464)	(89)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EGPVE-79-NC-2.0-S	611-00910							
2½" (63.5)	Epdm	EGPVE-79-NC-2.5	611-00492	20.75	3.50	3.50	5.08	1.69	3.94	1.33
	Viton	EGPVE-79-NC-2.5-V	611-00800	(527)	(89)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EGPVE-79-NC-2.5-S	611-00911							
3" (76.2)	Epdm	EGPVE-79-NC-3.0	611-00493	22.36	3.74	3.74	5.08	1.54	4.76	1.36
	Viton	EGPVE-79-NC-3.0-V	611-00802	(568)	(95)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EGPVE-79-NC-3.0-S	611-00912							
4" (101.6)	Epdm	EGPVE-79-NC-4.0	611-00876	27.32	5.00	4.88	6.61	1.65	5.91	1.18
	Viton	EGPVE-79-NC-4.0-V	611-00886	(694)	(127)	(124)	(168)	(42)	(150)	(30)
	Silicone	EGPVE-79-NC-4.0-S	611-00913							

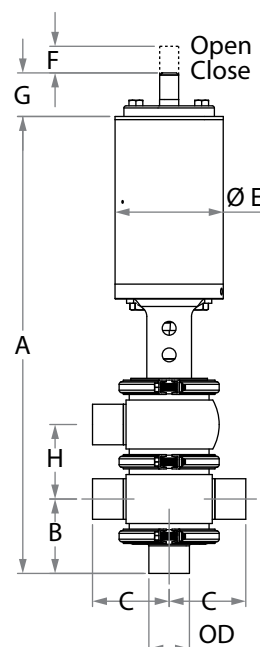


* 1" Valve with long Clamp
C1=3.0

3A PVE Divert Valve Dimensions

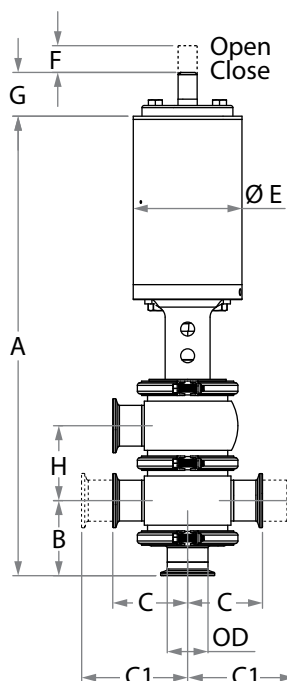
Weld Ends (97)

Size/OD		Name	Item	A	B	C	E	G	H	F
1" (25.4)	Epdm	EPVE-97-NC-1.0	611-00760	13.00	2.00	2.00	2.76	1.18	1.97	0.39
	Viton	EPVE-97-NC-1.0-V	611-00839	(330.2)	(50.8)	(50.8)	(70)	(30)	(50)	(10)
	Silicone	EPVE-97-NC-1.0-S	611-00960							
1½" (38.1)	Epdm	EPVE-97-NC-1.5	611-00554	16.38	2.24	2.76	4.00	1.38	2.76	0.96
	Viton	EPVE-97-NC-1.5-V	611-00841	(416)	(57)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EPVE-97-NC-1.5-S	611-00961							
2" (50.8)	Epdm	EPVE-97-NC-2.0	611-00555	17.76	3.00	3.50	4.00	1.38	3.11	0.96
	Viton	EPVE-97-NC-2.0-V	611-00423	(451)	(76.2)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EPVE-97-NC-2.0-S	611-00962							
2½" (63.5)	Epdm	EPVE-97-NC-2.5	611-00568	20.28	3.00	3.50	5.08	1.69	3.94	1.33
	Viton	EPVE-97-NC-2.5-V	611-00842	(515)	(76.2)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EPVE-97-NC-2.5-S	611-00963							
3" (76.2)	Epdm	EPVE-97-NC-3.0	611-00570	21.85	3.27	3.74	5.08	1.54	4.76	1.36
	Viton	EPVE-97-NC-3.0-V	611-00843	(555)	(83)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EPVE-97-NC-3.0-S	611-00964							
4" (101.6)	Epdm	EPVE-97-NC-4.0	611-00882	27.32	5.00	4.92	6.61	1.65	5.91	1.18
	Viton	EPVE-97-NC-4.0-V	611-00892	(694)	(127)	(125)	(168)	(42)	(150)	(30)
	Silicone	EPVE-97-NC-4.0-S	611-00965							



Clamp Ends (97)

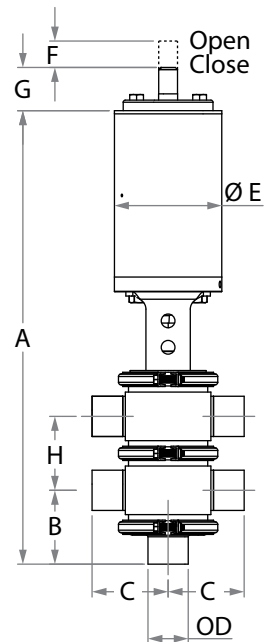
Size/OD		Name	Item	A	B	C	E	G	H	F
1"* (25.4)	Epdm	EGPVE-97-NC-1.0	611-00805	12.91	2.00	2.00	2.76	1.26	1.89	0.39
	Viton	EGPVE-97-NC-1.0-V	611-00806	(328)	(50.8)	(50.8)	(70)	(32)	(48)	(10)
	Silicone	EGPVE-97-NC-1.0-S	611-00920							
1½" (38.1)	Epdm	EGPVE-97-NC-1.5	611-00807	16.89	2.76	2.76	4.00	1.38	2.76	0.96
	Viton	EGPVE-97-NC-1.5-V	611-00808	(429)	(70)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EGPVE-97-NC-1.5-S	611-00921							
2" (50.8)	Epdm	EGPVE-97-NC-2.0	611-00774	18.27	3.50	3.50	4.00	1.38	3.11	0.96
	Viton	EGPVE-97-NC-2.0-V	611-00809	(464)	(89)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EGPVE-97-NC-2.0-S	611-00922							
2½" (63.5)	Epdm	EGPVE-97-NC-2.5	611-01000	20.75	3.50	3.50	5.08	1.69	3.94	1.33
	Viton	EGPVE-97-NC-2.5-V	611-00810	(527)	(89)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EGPVE-97-NC-2.5-S	611-00923							
3" (76.2)	Epdm	EGPVE-97-NC-3.0	611-00811	22.36	3.74	3.74	5.08	1.54	4.76	1.36
	Viton	EGPVE-97-NC-3.0-V	611-00812	(568)	(95)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EGPVE-97-NC-3.0-S	611-00924							
4" (101.6)	Epdm	EGPVE-97-NC-4.0	611-00880	27.32	5.00	4.88	6.61	1.65	5.91	1.18
	Viton	EGPVE-97-NC-4.0-V	611-00890	(694)	(127)	(124)	(168)	(42)	(150)	(30)
	Silicone	EGPVE-97-NC-4.0-S	611-00925							



* 1" Valve with long Clamp
C1=3.0

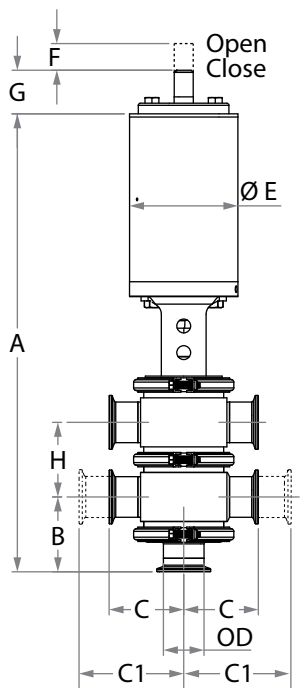
Weld Ends (99)

Size/OD		Name	Item	A	B	C	E	G	H	F
1" (25.4)	Epdm	EPVE-99-NC-1.0	611-00692	13.00	2.00	2.00	2.76	1.18	1.97	0.39
	Viton	EPVE-99-NC-1.0-V	611-00844	(330.2)	(50.8)	(50.8)	(70)	(30)	(50)	(10)
	Silicone	EPVE-99-NC-1.0-S	611-00966							
1½" (38.1)	Epdm	EPVE-99-NC-1.5	611-00524	16.38	2.76	2.76	4.00	1.38	2.76	0.96
	Viton	EPVE-99-NC-1.5-V	611-00845	(416)	(70)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EPVE-99-NC-1.5-S	611-00967							
2" (50.8)	Epdm	EPVE-99-NC-2.0	611-00525	17.76	3.00	3.50	4.00	1.38	3.11	0.96
	Viton	EPVE-99-NC-2.0-V	611-00846	(451)	(76.2)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EPVE-99-NC-2.0-S	611-00968							
2½" (63.5)	Epdm	EPVE-99-NC-2.5	611-00567	20.28	3.00	3.50	5.08	1.69	3.94	1.33
	Viton	EPVE-99-NC-2.5-V	611-00847	(515)	(76.2)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EPVE-99-NC-2.5-S	611-00969							
3" (76.2)	Epdm	EPVE-99-NC-3.0	611-00569	21.85	3.23	3.74	5.08	1.54	4.76	1.36
	Viton	EPVE-99-NC-3.0-V	611-00867	(555)	(82)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EPVE-99-NC-3.0-S	611-00970							
4" (101.6)	Epdm	EPVE-99-NC-4.0	611-00883	27.32	5.00	4.92	6.61	1.65	5.91	1.18
	Viton	EPVE-99-NC-4.0-V	611-00893	(694)	(127)	(125)	(168)	(42)	(150)	(30)
	Silicone	EPVE-99-NC-4.0-S	611-00971							



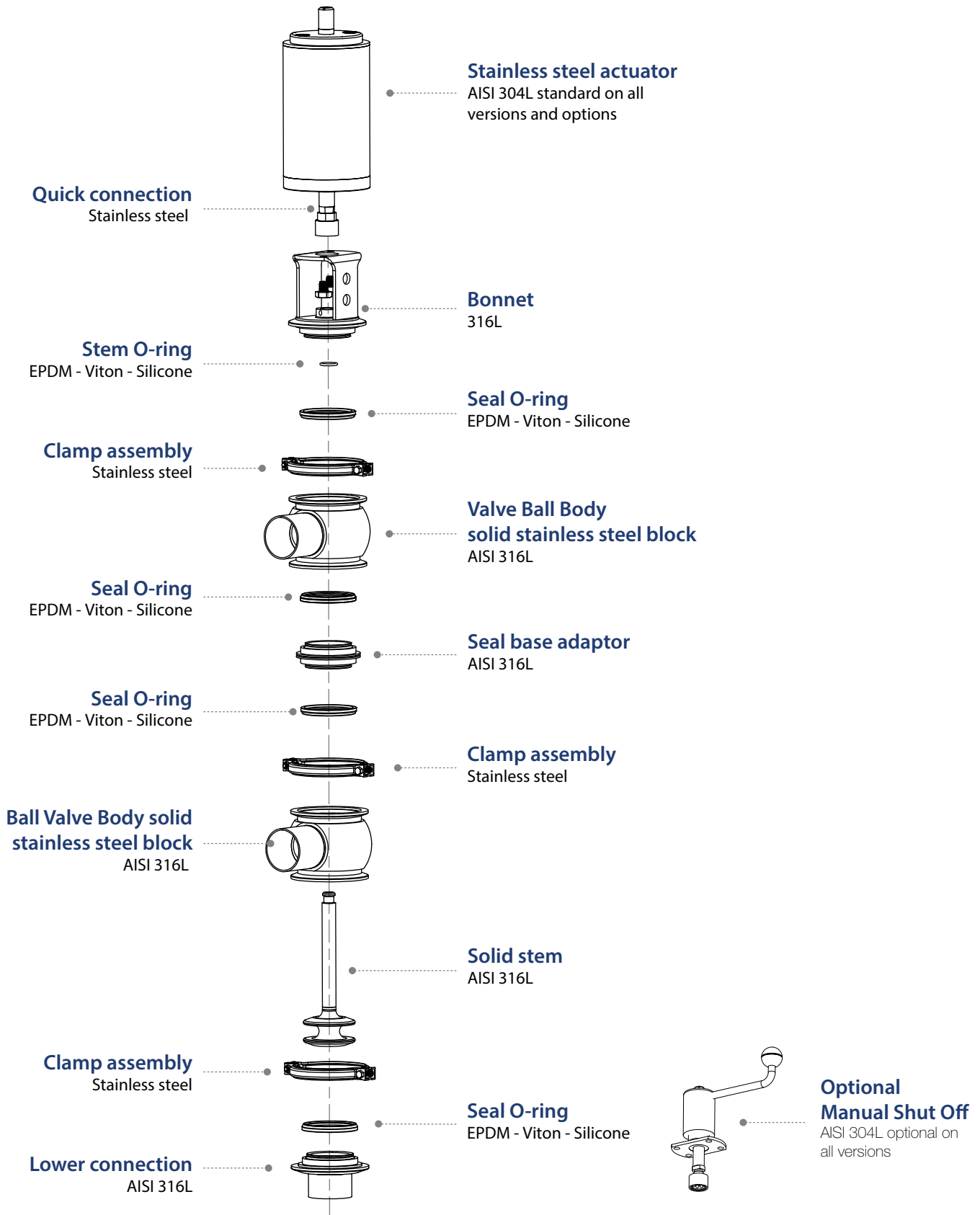
Clamp Ends (99)

Size/OD		Name	Item	A	B	C	E	G	H	F
1"* (25.4)	Epdm	EGPVE-99-NC-1.0	611-00528	12.91	2.00	2.00	2.76	1.26	1.89	0.39
	Viton	EGPVE-99-NC-1.0-V	611-00814	(328)	(50.8)	(50.8)	(70)	(32)	(48)	(10)
	Silicone	EGPVE-99-NC-1.0-S	611-00926							
1½" (38.1)	Epdm	EGPVE-99-NC-1.5	611-00529	16.89	2.76	2.76	4.00	1.38	2.76	0.96
	Viton	EGPVE-99-NC-1.5-V	611-00815	(429)	(70)	(70)	(101.6)	(35)	(70)	(24.5)
	Silicone	EGPVE-99-NC-1.5-S	611-00927							
2" (50.8)	Epdm	EGPVE-99-NC-2.0	611-00530	18.27	3.50	3.50	4.00	1.38	3.11	0.96
	Viton	EGPVE-99-NC-2.0-V	611-00816	(464)	(89)	(89)	(101.6)	(35)	(79)	(24.4)
	Silicone	EGPVE-99-NC-2.0-S	611-00928							
2½" (63.5)	Epdm	EGPVE-99-NC-2.5	611-00531	20.75	3.50	3.50	5.08	1.69	3.94	1.33
	Viton	EGPVE-99-NC-2.5-V	611-00817	(527)	(89)	(89)	(129)	(43)	(100)	(33.9)
	Silicone	EGPVE-99-NC-2.5-S	611-00929							
3" (76.2)	Epdm	EGPVE-99-NC-3.0	611-00818	22.36	3.74	3.74	5.08	1.54	4.76	1.36
	Viton	EGPVE-99-NC-3.0-V	611-00840	(568)	(95)	(95)	(129)	(39)	(121)	(34.5)
	Silicone	EGPVE-99-NC-3.0-S	611-00930							
4" (101.6)	Epdm	EGPVE-99-NC-4.0	611-00881	27.32	5.00	4.88	6.61	1.65	5.91	1.18
	Viton	EGPVE-99-NC-4.0-V	611-00891	(694)	(127)	(124)	(168)	(42)	(150)	(30)
	Silicone	EGPVE-99-NC-4.0-S	611-00931							



* 1" Valve with long Clamp
C1=3.0

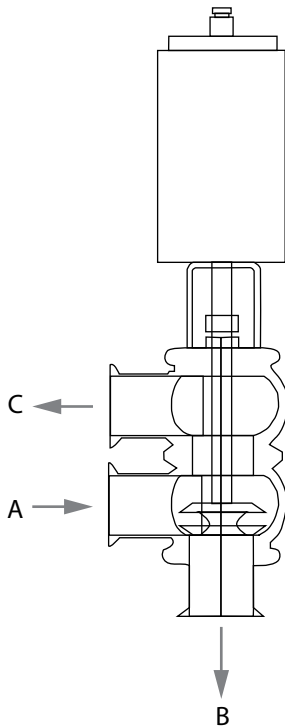
3A PVE Divert Valve Components & Materials



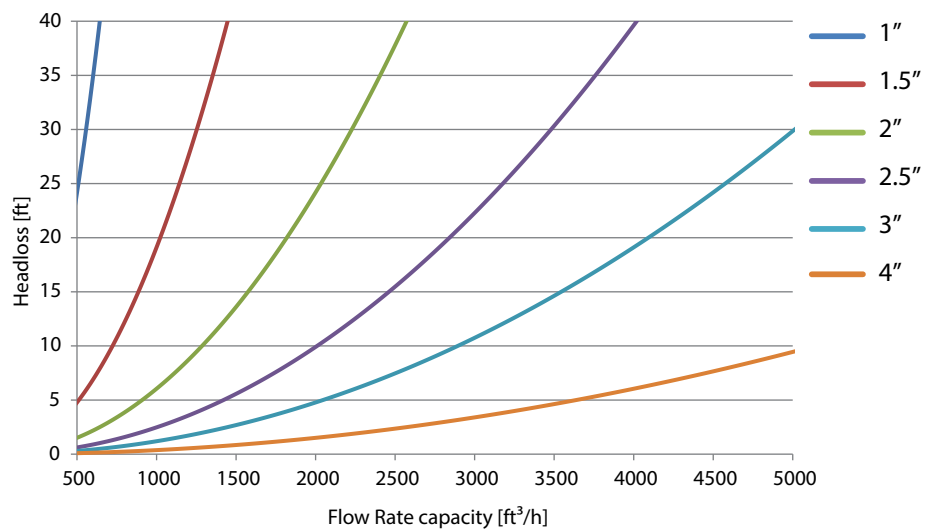
3A PVE Divert Valve Pressure Drop Vs Flow Rate Capacity Diagram

$$HI = \frac{K \cdot F^2}{2g \cdot D^4}$$

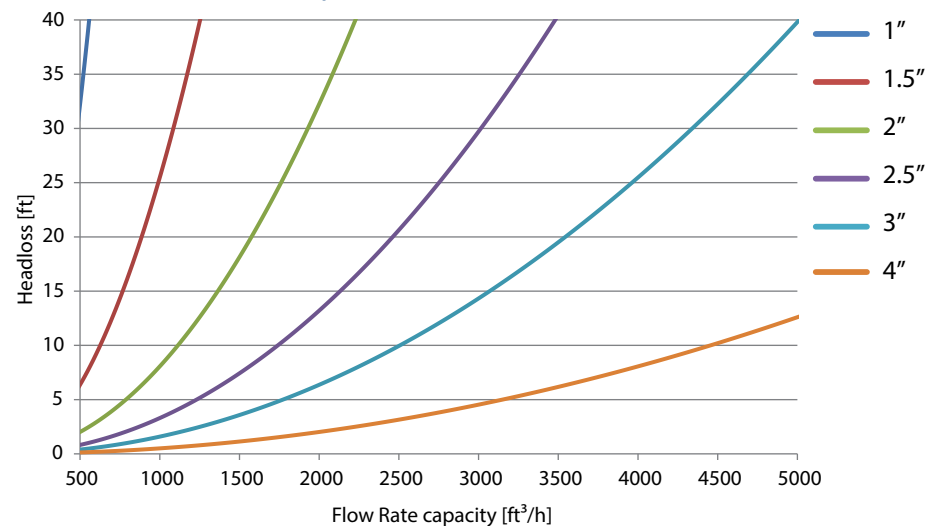
HI - Head Loss [ft]
 K - Loss coefficient []
 F - Flow Rate capacity [ft³/h]
 g - Gravitational acceleration [ft/s²]
 D - Valve diameter [inch]



Pressure drop - Divert Valve* (A-B) K=2E5



Pressure drop - Divert Valve* (A-C) K=4E5



* For additional valve configuration (79, 97, 99) please refer to EGMO website