

MaxClean



Hygienic Flow Equipment

3A PVE Single Seat Valves



Semiconductor



Bio-Pharm



Hygienic



NEUMO | VNE | EGMO

NEUMO Ehrenberg Group

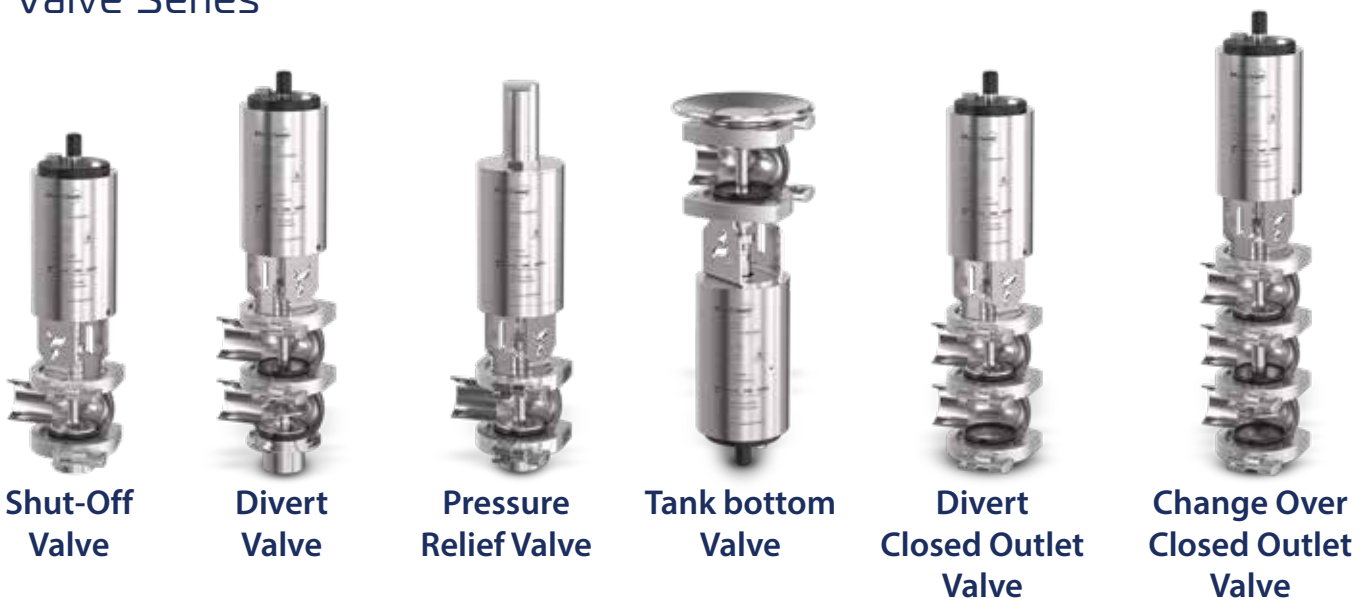


3A PVE Single Seat Valves

MaxClean single seat valve for sanitary applications (pneumatic / manually operated)

PVE Valves are available in three operating modules: Air Actuated; Air Actuated with an electronic control head; and manually operated. PVE valves popular applications are the following: Shut-off Valve, Divert Valve, Tank Outlet and Pressure Relief Valve. Connections consist of Clamp and Weld. EGMO's PVE Valves are made of AISI 316L Stainless steel which meet all 3A requirements and are offered in ¾" through 4" sizes. Unique patent pending sealing system.

Valve Series



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3A PVE Features and Benefits

Standards



Robust and Durable

- ✓ Due to the valve's unique structure, the O-ring remains protected from wear and exposure to abrasive media
- ✓ AISI 316L stainless-steel body and parts, made from bar for maximum durability and cleanability
- ✓ Heavy duty design

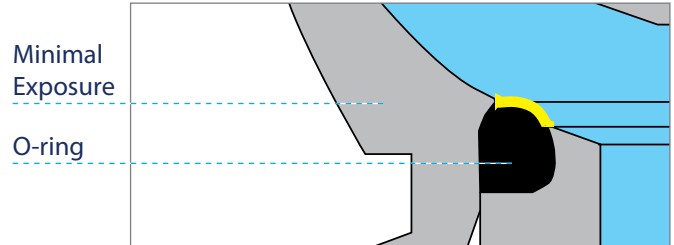
Smart Installation and Operation

- ✓ 360° adjustable allowing versatility in the configurations
- ✓ **Optional changing the operation mode from NC (Normally Close) to NO (Normally Open).**
See Installation and Service Manual
- ✓ Suitable for Shut off, Divert and Vessel outlet configurations
- ✓ One-part stem for optimal sterility
- ✓ Inside surface finish $\leq 32 \mu\text{m Ra}$
- ✓ Full drainage without dead leg
- ✓ Proximity Switches are Optional and installed by the customer
- ✓ Weld ends can be welded manually or by Orbital welding technology



Optimal CIP (Clean In Place) Cleaning

- ✓ Ball shape and surfaces - no dead spaces
- ✓ O-ring seat in the valve ensures minimal exposure to the flow



Cost Effective Maintenance

- ✓ Both top and bottom parts of the valve are identical - except 3/4" and 1"
- ✓ Unique Patent Pending sealing system utilizing standard O-ring sealing



NC and NO Operation Mode in One Actuator

- ✓ **Normally Closed (NC):** The valve stays closed when de-energized (no power). It opens when power is applied.
- ✓ **Normally Open (NO):** The valve stays open when de-energized. It closes when power is applied.
- ✓ **This dual functionality is achieved by the Mounting Position:** The actuator might be mounted differently (e.g., rotated 180°) to change whether it pushes open or closes when unpowered.



Features and Benefits

- ✓ **Versatility:** One actuator can serve both NC and NO functions, reducing inventory needs and increasing flexibility during design or installation.
- ✓ **Cost Efficiency:** You don't need to stock or specify separate actuators for each operation type, simplifying procurement and maintenance.
- ✓ **Simplified Maintenance and Installation:** Standardizing on a single actuator design means technicians only need to learn one setup, reducing human error and training time.
- ✓ **Fail-Safe Options:** The ability to configure fail-safe states ensures safety and compliance with process requirements.



3A PVE - Shut-off Valve

Used for opening and closing the fluids path

- ✓ Spherical shape with zero dead leg
- ✓ Easy to maintain with standard O-Ring
- ✓ Fast changeover from NC and NO 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 or N/O operation mode in one actuator



Quick Disconnect Coupling
(Optional)

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

Static O-ring to minimize wear and erosion

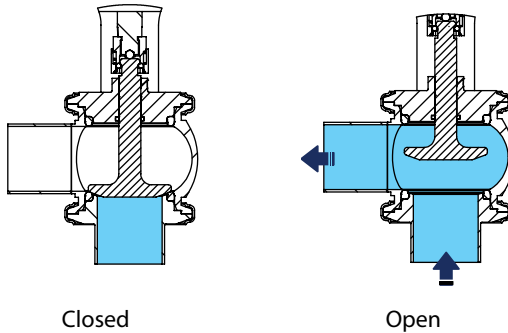
Minimal exposure of the O-ring to the flow

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



Configuration and Flow direction options

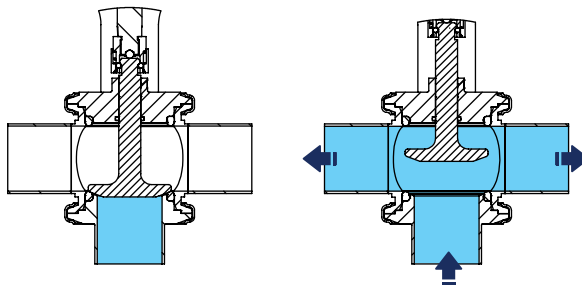
7



Closed

Open

9



Closed

Open

How To Order

E **G** **P** **V** **E** - **7** - **N** **C** - **1.0** - **V** - **A** **S** **I** - **Q**
 Valve Type Valve Configuration Actuation Type Size Seals Control Head Coupling Type

Type Connection	Valve Configuration	Actuation Type	Size	Seals	Control Head *	Coupling Type
EGPVE - CLAMP EPVE - WELD	7 - Shut Off 9 - Cross Shut Off	NC NO MAN ****	0.75 1.0 1.5 2.0 2.5 3.0 4.0	EPDM - is the Default *** V - Viton, Optional	ASI 24V 1IPS - One Inductive Proximity Switch ** 2IPS - Two Inductive Proximity Switch ** (Proximity Switch Diameter 12mm) I/O Link **	Stem coupling - is the default Q - Quick Disconnect

* See page 26 for Control Heads details

** I/O Link is Optional, also the Proximity switches that are by Customer

*** Stem O-ring in 0.75" and 1.0" are only Viton

**** Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling

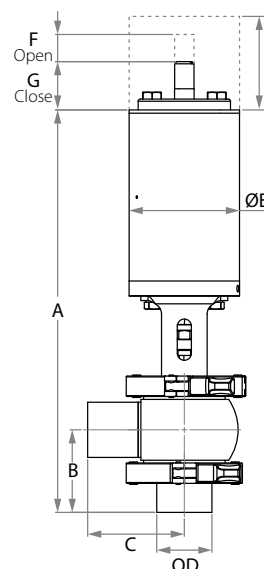


3A PVE Shut-Off Valve Dimensions

Weld Ends (7)

Size/OD		Name	Item	A	B	C	E	G	F
¾"	Epdm	EPVE-7-NC-0.75	611-02748	10.13"	2.22"	2.6"	2.76"	1.34"	0.27"
(19.05)	Viton	EPVE-7-NC-0.75-V	611-02768	(257.5)	(56.4)	(66.2)	(70.0)	(34.2)	(6.8)
1"	Epdm	EPVE-7-NC-1.0	611-03935	10.04"	2.00"	2.00"	2.76"	1.26"	0.34"
(25.4)	Viton	EPVE-7-NC-1.0-V	611-03943	(255.1)	(50.8)	(50.8)	(70)	(32.2)	(8.8)
1.5"	Epdm	EPVE-7-NC-1.5	611-03947	13.66"	2.24"	2.76"	4.00"	1.75"	0.7"
(38.1)	Viton	EPVE-7-NC-1.5-V	611-03955	(347)	(57)	(70)	(101.6)	(44.5)	(17.9)
2"	Epdm	EPVE-7-NC-2.0	611-03959	14.57"	3"	3.5"	4.00"	1.75"	0.7"
(50.8)	Viton	EPVE-7-NC-2.0-V	611-03967	(370.0)	(76.2)	(89.0)	(101.6)	(44.5)	(18.0)
2.5"	Epdm	EPVE-7-NC-2.5	611-03971	16.38"	3"	3.5"	5.08"	1.6"	1.46"
(63.5)	Viton	EPVE-7-NC-2.5-V	611-03979	(416.0)	(76.2)	(89.0)	(129)	(40.8)	(37.2)
3"	Epdm	EPVE-7-NC-3.0	611-03983	17.05"	3.27"	3.74"	5.08"	1.52"	1.54"
(76.2)	Viton	EPVE-7-NC-3.0-V	611-03991	(433.0)	(83.0)	(95.0)	(129)	(38.7)	(39.3)
4"	Epdm	EPVE-7-NC-4.0	611-00499	21.42"	5"	4.92"	6.61"	1.65"	1.26"
(101.6)	Viton	EPVE-7-NC-4.0-V	611-00887	(544.0)	(127)	(125)	(168)	(42)	(32)

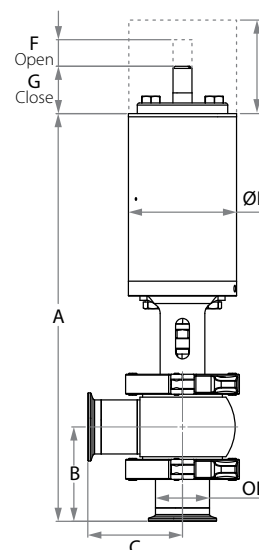
I = Control Height 188 mm



Clamp Ends (7)

Size/OD		Name	Item	A	B	C	E	G	F
¾"	Epdm	EGPVE-7-NC-0.75	611-02758	10.13"	2.22"	2.6"	2.76"	1.34"	0.27"
(19.05)	Viton	EGPVE-7-NC-0.75-V	611-02764	(257.5)	(56.4)	(66.2)	(70.0)	(34.2)	(6.8)
1"	Epdm	EGPVE-7-NC-1.0	611-03086	10.04"	2.00"	2.00"	2.76"	1.26"	0.34"
(25.4)	Viton	EGPVE-7-NC-1.0-V	611-03094	(255.1)	(50.8)	(50.8)	(70)	(32.2)	(8.8)
1½"	Epdm	EGPVE-7-NC-1.5	611-03098	14.13"	2.76"	2.76"	4.00"	1.75"	0.7"
(38.1)	Viton	EGPVE-7-NC-1.5-V	611-03106	(359)	(70)	(70)	(101.6)	(44.5)	(17.9)
2"	Epdm	EGPVE-7-NC-2.0	611-03110	15.08"	3.5"	3.5"	4.00"	1.75"	0.7"
(50.8)	Viton	EGPVE-7-NC-2.0-V	611-03119	(383.0)	(89.0)	(89.0)	(101.6)	(44.5)	(18.0)
2½"	Epdm	EGPVE-7-NC-2.5	611-03124	16.89"	3.5"	3.5"	5.08"	1.6"	1.46"
(63.5)	Viton	EGPVE-7-NC-2.5-V	611-03133	(429.0)	(89.0)	(89.0)	(129)	(40.8)	(37.2)
3"	Epdm	EGPVE-7-NC-3.0	611-03137	17.56"	3.74"	3.74"	5.08"	1.52"	1.54"
(76.2)	Viton	EGPVE-7-NC-3.0-V	611-03146	(446.0)	(95.0)	(95.0)	(129)	(38.7)	(39.3)
4"	Epdm	EGPVE-7-NC-4.0	611-00872	21.42"	5"	4.92"	6.61"	1.65"	1.26"
(101.6)	Viton	EGPVE-7-NC-4.0-V	611-00884	(544.0)	(127.0)	(125.0)	(168)	(42)	(32)

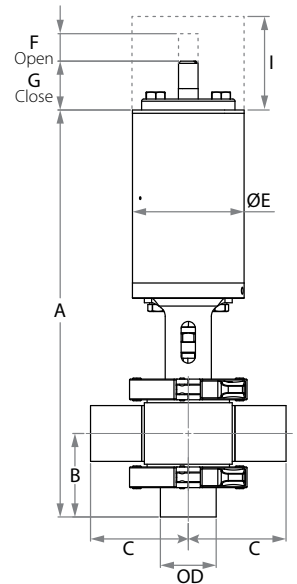
I = Control Height 188 mm



Weld Ends (9)

Size/OD		Name	Item	A	B	C	E	G	F
¾"	Epdm	EPVE-9-NC-0.75	611-02750	10.13"	2.22"	2.6"	2.76"	1.34"	0.27"
(19.05)	Viton	EPVE-9-NC-0.75-V	611-02772	(257.5)	(56.4)	(66.2)	(70.0)	(34.2)	(6.8)
1"	Epdm	EPVE-9-NC-1.0	611-04317	10.04"	2.00"	2.00"	2.76"	1.26"	0.34"
(25.4)	Viton	EPVE-9-NC-1.0-V	611-04325	(255.1)	(50.8)	(50.8)	(70)	(32.2)	(8.8)
1½"	Epdm	EPVE-9-NC-1.5	611-04329	13.66"	2.24"	2.76"	4.00"	1.75"	0.7"
(38.1)	Viton	EPVE-9-NC-1.5-V	611-04337	(347)	(57)	(70)	(101.6)	(44.5)	(17.9)
2"	Epdm	EPVE-9-NC-2.0	611-04341	14.57"	3"	3.5"	4.00"	1.75"	0.7"
(50.8)	Viton	EPVE-9-NC-2.0-V	611-04349	(370.0)	(76.2)	(89.0)	(101.6)	(44.5)	(18.0)
2½"	Epdm	EPVE-9-NC-2.5	611-04353	16.38"	3"	3.5"	5.08"	1.6"	1.46"
(63.5)	Viton	EPVE-9-NC-2.5-V	611-04361	(416.0)	(76.2)	(89.0)	(129)	(40.8)	(37.2)
3"	Epdm	EPVE-9-NC-3.0	611-04365	17.05"	3.27"	3.74"	5.08"	1.52"	1.54"
(76.2)	Viton	EPVE-9-NC-3.0-V	611-04373	(433.0)	(83.0)	(95.0)	(129)	(38.7)	(39.3)
4"	Epdm	EPVE-9-NC-4.0	611-00879	21.42"	5"	4.92"	6.61"	1.65"	1.26"
(101.6)	Viton	EPVE-9-NC-4.0-V	611-00895	(544.0)	(127.0)	(125.0)	(168)	(42)	(32)

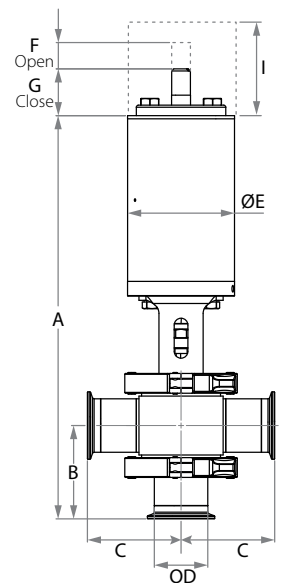
I = Control Height 188 mm



Clamp Ends (9)

Size/OD		Name	Item	A	B	C	E	G	F
¾"	Epdm	EGPVE-9-NC-0.75	611-02746	10.13"	2.22"	2.6"	2.76"	1.34"	0.27"
(19.05)	Viton	EGPVE-9-NC-0.75-V	611-02760	(257.5)	(56.4)	(66.2)	(70.0)	(34.2)	(6.8)
1"	Epdm	EGPVE-9-NC-1.0	611-03453	10.04"	2.00"	2.00"	2.76"	1.26"	0.34"
(25.4)	Viton	EGPVE-9-NC-1.0-V	611-03461	(255.1)	(50.8)	(50.8)	(70)	(32.2)	(8.8)
1½"	Epdm	EGPVE-9-NC-1.5	611-03465	14.13"	2.76"	2.76"	4.00"	1.75"	0.7"
(38.1)	Viton	EGPVE-9-NC-1.5-V	611-03473	(359)	(70)	(70)	(101.6)	(44.5)	(17.9)
2"	Epdm	EGPVE-9-NC-2.0	611-03477	15.08"	3.5"	3.5"	4.00"	1.75"	0.7"
(50.8)	Viton	EGPVE-9-NC-2.0-V	611-03486	(383.0)	(89.0)	(89.0)	(101.6)	(44.5)	(18.0)
2½"	Epdm	EGPVE-9-NC-2.5	611-03491	16.89"	3.5"	3.5"	5.08"	1.6"	1.46"
(63.5)	Viton	EGPVE-9-NC-2.5-V	611-03499	(429.0)	(89.0)	(89.0)	(129)	(40.8)	(37.2)
3"	Epdm	EGPVE-9-NC-3.0	611-03503	17.56"	3.74"	3.74"	5.08"	1.52"	1.54"
(76.2)	Viton	EGPVE-9-NC-3.0-V	611-03512	(446.0)	(95.0)	(95.0)	(129)	(38.7)	(39.3)
4"	Epdm	EGPVE-9-NC-4.0	611-00877	21.42"	5"	4.92"	6.61"	1.65"	1.26"
(101.6)	Viton	EGPVE-9-NC-4.0-V	611-00894	(544.0)	(127.0)	(125.0)	(168)	(42)	(32)

I = Control Height 188 mm

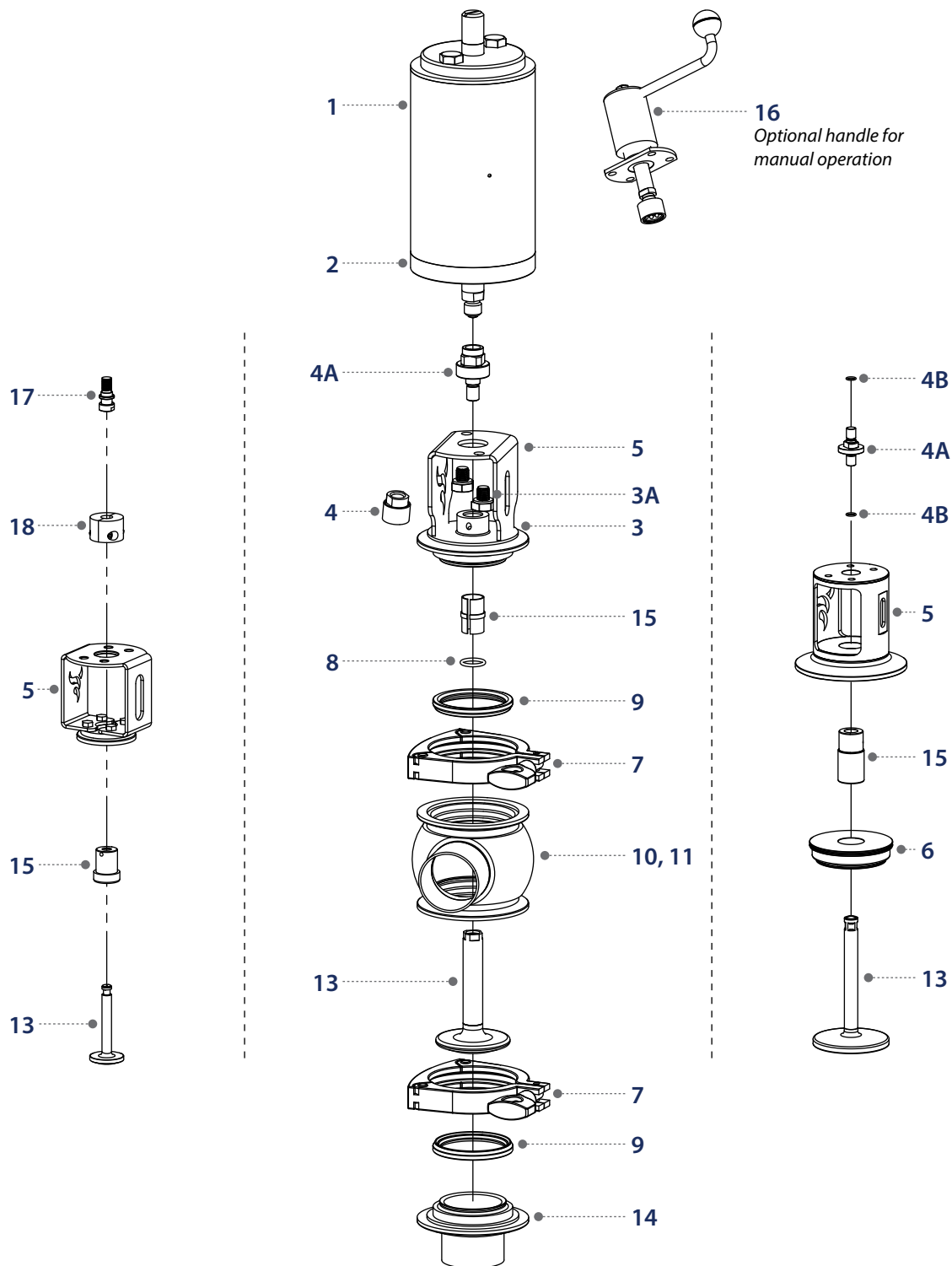


3A PVE Shut-Off Valve Components & Materials

Size ¾" to 1"

Size 1½" to 3"

Size 4"



Optional handle for manual operation

Parts List:

SHUT OFF VALVE: PART LIST For PVE sizes 3/4" (0.75") to 4"

Item #	Part Number	Description
1.	PVEP-1-NC-(NO)-¾ & 1.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-1.5 & 2.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-2.5 & 3.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-4.0	Actuator is reversible for normally open or normally closed
2.	PVEP-2-ALL	Air Inlet
3.	PVEP-3-¾ & 1.0	Fastening Bolts
	PVEP-3-1.5÷3.0	Fastening Bolts
	PVEP-3-4.0	Fastening Bolts
3A.	PVEP-3A-¾ & 1.0	Washer for fastening bolt
	PVEP-3A-1.5÷3.0	Washer for fastening bolt
	PVEP-3A-4.0	Washer for fastening bolt
4.	PVEP-4-ALL	Quick Disconnect Coupling (Optional)
4A.	PVEP-4-1.5÷3.0	Stem Coupling
	PVEP-4-4.0	Stem Coupling
4B.	PVEP-4B-4.0	Stem Coupling O-Ring
5.	PVEP-5-¾ & 1.0	Bonnet & Yoke for ¾" & 1"
	PVEP-5-1.5	Bonnet & Yoke for 1½"
	PVEP-5-2.0	Bonnet & Yoke for 2"
	PVEP-5-2.5	Bonnet & Yoke for 2½"
	PVEP-5-3.0	Bonnet & Yoke for 3"
	PVEP-5-4.0	Bonnet & Yoke for 4"
6.	PVEP-6-4.0	Upper ring seal
7.	Clamp-¾&1.0" 2pc	Clamp (For¾&1.0" Valves)
	13MHHS Clamp-3" 3pc	Heavy Duty Clamp 3" 3 Piece clamp (For 1½" & 2" Valves)
	13MHHS Clamp-4" 3pc	Heavy Duty Clamp 4" 3 Piece clamp (For 2½" & 3" Valves)
	13MHHS Clamp-6" 3pc	Heavy Duty Clamp 6" 3 Piece clamp (For 4" Valves)
8.	PVEP-8-¾-1.0 V	Viton® Stem O-Ring (For ¾" & 1" Valves)
	PVEP-8-1.5-2.0 (V)	EPDM, or Viton® Stem O-Ring (For 1½" & 2" Valves)
	PVEP-8-2.5-3.0 (V)	EPDM or Viton® Stem O-Ring (For 2½" & 3" Valves)
	PVEP-8-4.0 (V)	EPDM or Viton® Stem O-Ring (For 4" Valves)
9.	PVEP-9-¾&1.0" (V)	EPDM or Viton® Seat Seal for¾&1.0"
	PVEP-9-1.5 (V)	EPDM or Viton® Seat Seal for 1½"
	PVEP-9-2.0 (V)	EPDM or Viton® Seat Seal for 2"
	PVEP-9-2.5 (V)	EPDM or Viton® Seat Seal for 2½"
	PVEP-9-3.0 (V)	EPDM or Viton® Seat Seal for 3"
	PVEP-9-4.0 (V)	EPDM or Viton® Seat Seal for 4"
10.	PVEP-7-10C-¾	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-1.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-1.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-3.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-4.0	Tee Body (C=Clamp, W=Butt-Weld)

Parts List:

SHUT OFF VALVE: PART LIST For PVE sizes 3/4" (0.75") to 4"

Item #	Part Number	Description
11.	PVEP-9-11C-¾	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-1.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-1.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-3.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-4.0	Cross Body (C=Clamp, W=Butt-Weld)
13.	PVEP-7-13-¾	Stem for ¾" Shut off
	PVEP-7-13-1.0	Stem for 1" Shut off
	PVEP-7-13-1.5	Stem for 1½" Shut off
	PVEP-7-13-2.0	Stem for 2" Shut off
	PVEP-7-13-2.5	Stem for 2½" Shut off
	PVEP-7-13-3.0	Stem for 3" Shut off
	PVEP-7-13-4.0	Stem for 4" Shut off
14.	PVEP-14C-¾	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-1.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-1.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-3.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-4.0	Lower Connection (C=Clamp, W=Butt-Weld)
15.	PVEP-15-¾ & 1.0	Stem guide
	PVEP-15-1.5÷3.0	Stem guide
	PVEP-15-4.0	Stem guide
16.	PVEP-MANUAL-1.5÷3.0	Manual Handle (Optional .Fits 1.5÷3.0 Sizes)*
17.	PVEP- 17-¾ & 1.0	Rod piston head (For¾" & 1" Valves)
18.	PVEP- 18-¾ & 1.0	Split connection (For¾" & 1" Valves)

* Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling.

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
- ✓ Inside surface finish $\leq 32 \mu\text{m Ra}$

N/C or N/O operation mode in one actuator



Quick Disconnect Coupling
(Optional)

Minimal exposure of the O-ring to the flow

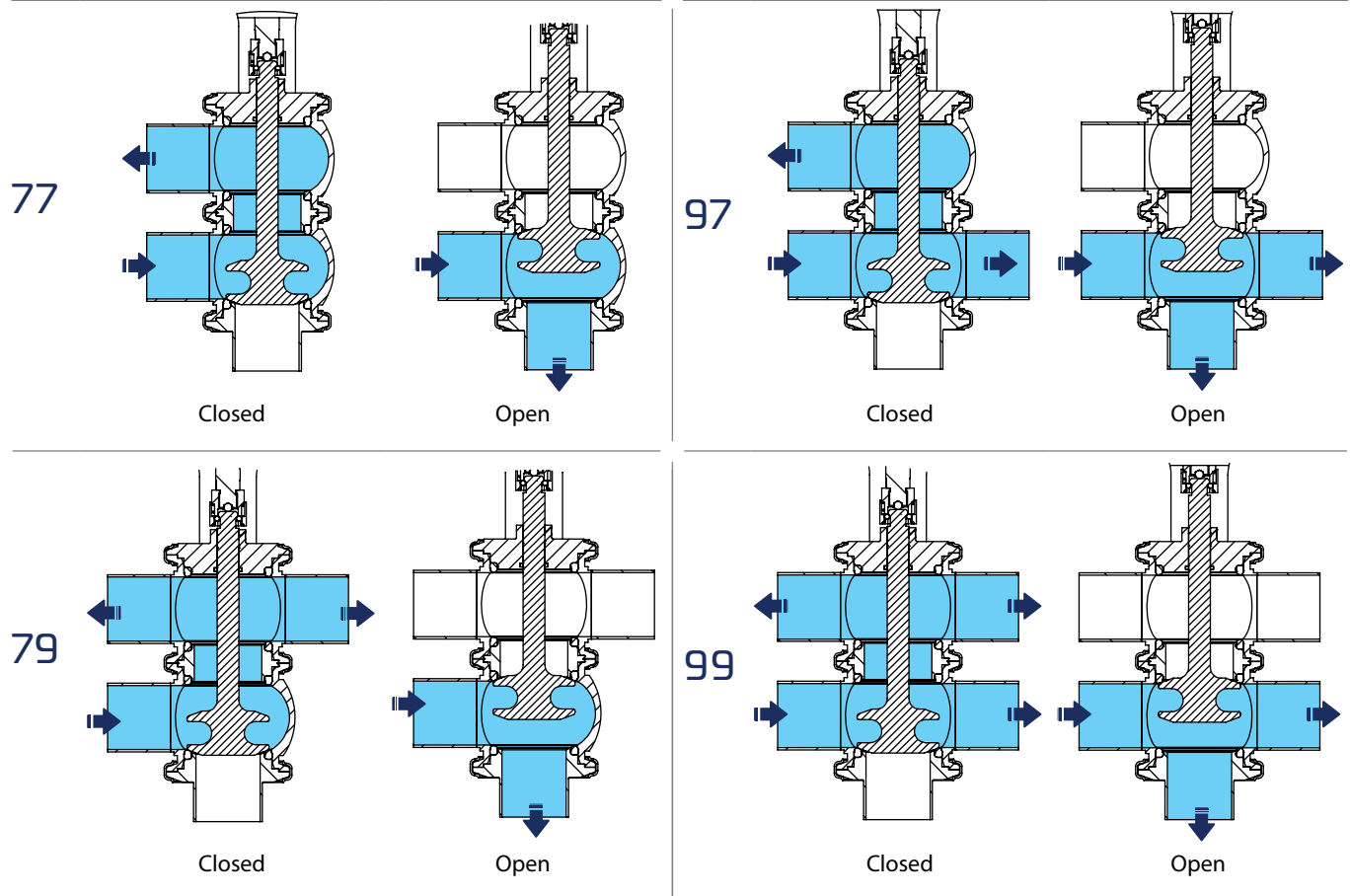
Robust, ball-shaped body made of AISI 316L
stainless-steel (made from full bar)

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

Static O-ring to minimize wear and erosion



Configuration and Flow direction options



How To Order

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

Type Connection	Valve Configuration	Actuation Type	Size	Seals	Control Head *	Coupling Type
EGPVE - CLAMP EPVE - WELD	77 - Divert 79 - Divert 97 - Divert 99 - Divert	NC NO MAN ****	0.75 1.0 1.5 2.0 2.5 3.0 4.0	EPDM - is the Default *** V - Viton, Optional	ASI 24V 11PS - One Inductive Proximity Switch ** 2IPS - Two Inductive Proximity Switch ** (Proximity Switch Diameter 12mm) I/O Link **	Stem coupling - is the default Q - Quick Disconnect

* See page 26 for Control Heads details

** I/O Link is Optional, also the Proximity switches that are by Customer

*** Stem O-ring in 0.75" and 1.0" are only Viton

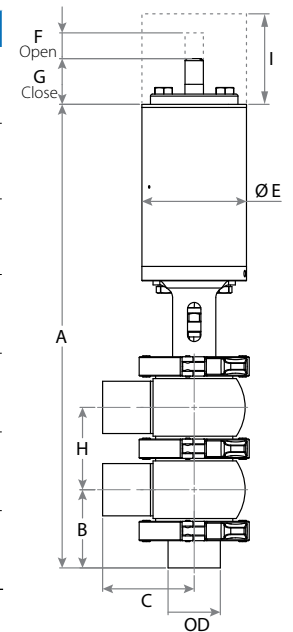
**** Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling

3A PVE Divert Valve Dimensions

Weld Ends (77)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾"	Epdm	EPVE-77-NC-0.75	611-02752	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
(19.05)	Viton	EPVE-77-NC-0.75-V	611-02774	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1"	Epdm	EPVE-77-NC-1.0	611-03663	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
(25.4)	Viton	EPVE-77-NC-1.0-V	611-03672	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½"	Epdm	EPVE-77-NC-1.5	611-03676	16.38"	2.24"	2.76"	4.00"	1.49"	2.76"	0.87"
(38.1)	Viton	EPVE-77-NC-1.5-V	611-03685	(416)	(57)	(70)	(101.6)	(38.08)	(70)	(22.21)
2"	Epdm	EPVE-77-NC-2.0	611-03689	17.76"	3"	3.5"	4.00"	1.52"	3.11"	0.87"
(50.8)	Viton	EPVE-77-NC-2.0-V	611-03700	(451.0)	(76.2)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½"	Epdm	EPVE-77-NC-2.5	611-03704	20.28"	3"	3.5"	5.08"	1.53"	3.94"	1.25"
(63.5)	Viton	EPVE-77-NC-2.5-V	611-03712	(515.0)	(76.2)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3"	Epdm	EPVE-77-NC-3.0	611-03716	21.85"	3.27"	3.74"	5.08"	1.45"	4.76"	1.35"
(76.2)	Viton	EPVE-77-NC-3.0-V	611-03724	(555.0)	(83.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4"	Epdm	EPVE-77-NC-4.0	611-00875	27.32"	5"	4.92"	6.61"	1.65"	5.91"	1.18"
(101.6)	Viton	EPVE-77-NC-4.0-V	611-00888	(694.0)	(127.0)	(125.0)	(168)	(42)	(150)	(30)

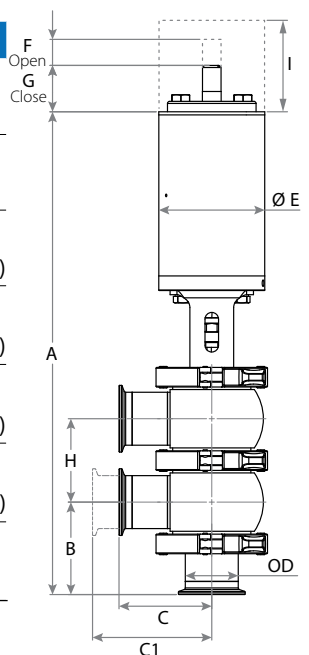
I = Control Height 188 mm



Clamp Ends (77)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾"	Epdm	EGPVE-77-NC-0.75	611-02759	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
(19.05)	Viton	EGPVE-77-NC-0.75-V	611-02773	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1"	Epdm	EGPVE-77-NC-1.0	611-02835	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
(25.4)	Viton	EGPVE-77-NC-1.0-V	611-02843	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½"	Epdm	EGPVE-77-NC-1.5	611-02848	16.38"	2.76"	2.76"	4.00"	1.49"	2.76"	0.87"
(38.1)	Viton	EGPVE-77-NC-1.5-V	611-02856	(416)	(70)	(70)	(101.6)	(38.08)	(70)	(22.21)
2"	Epdm	EGPVE-77-NC-2.0	611-02860	18.27"	3.5"	3.5"	4.00"	1.52"	3.11"	0.87"
(50.8)	Viton	EGPVE-77-NC-2.0-V	611-02872	(464.0)	(89.0)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½"	Epdm	EGPVE-77-NC-2.5	611-02876	20.75"	3.5"	3.5"	5.08"	1.53"	3.94"	1.25"
(63.5)	Viton	EGPVE-77-NC-2.5-V	611-02885	(527.0)	(89.0)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3"	Epdm	EGPVE-77-NC-3.0	611-02889	22.36"	3.74"	3.74"	5.08"	1.45"	4.76"	1.35"
(76.2)	Viton	EGPVE-77-NC-3.0-V	611-02898	(568.0)	(95.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4"	Epdm	EGPVE-77-NC-4.0	611-00874	27.32"	5"	4.88"	6.61"	1.65"	5.91"	1.18"
(101.6)	Viton	EGPVE-77-NC-4.0-V	611-00885	(694.0)	(127.0)	(124.0)	(168)	(42)	(150)	(30)

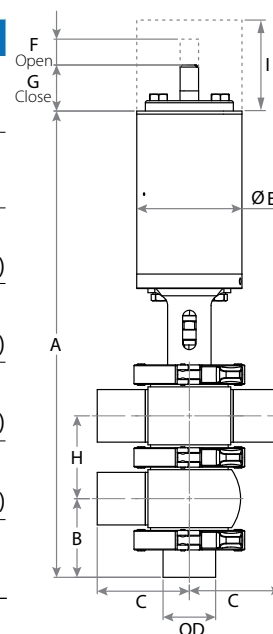
I = Control Height 188 mm



Weld Ends (79)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾" (19.05)	Epdm	EGPVE-79-NC-0.75	611-02761	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
	Viton	EGPVE-79-NC-0.75-V	611-02763	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1" (25.4)	Epdm	EGPVE-79-NC-1.0	611-02964	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
	Viton	EGPVE-79-NC-1.0-V	611-02972	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½" (38.1)	Epdm	EGPVE-79-NC-1.5	611-02976	16.38"	2.24"	2.76"	4.00"	1.49"	2.76"	0.87"
	Viton	EGPVE-79-NC-1.5-V	611-02984	(416)	(57)	(70)	(101.6)	(38.08)	(70)	(22.21)
2" (50.8)	Epdm	EGPVE-79-NC-2.0	611-02988	17.76"	3"	3.5"	4.00"	1.52"	3.11"	0.87"
	Viton	EGPVE-79-NC-2.0-V	611-02997	(451.0)	(76.2)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½" (63.5)	Epdm	EGPVE-79-NC-2.5	611-03001	20.28"	3"	3.5"	5.08"	1.53"	3.94"	1.25"
	Viton	EGPVE-79-NC-2.5-V	611-03009	(515.0)	(76.2)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3" (76.2)	Epdm	EGPVE-79-NC-3.0	611-03013	21.85"	3.27"	3.74"	5.08"	1.45"	4.76"	1.35"
	Viton	EGPVE-79-NC-3.0-V	611-03021	(555.0)	(83.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4" (101.6)	Epdm	EGPVE-79-NC-4.0	611-00876	27.32"	5"	4.92"	6.61"	1.65"	5.91"	1.18"
	Viton	EGPVE-79-NC-4.0-V	611-00886	(694.0)	(127.0)	(125.0)	(168)	(42)	(150)	(30)

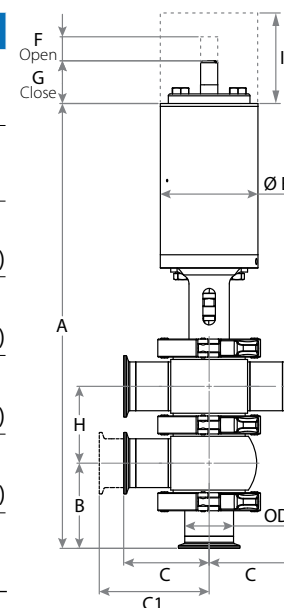
I = Control Height 188 mm



Clamp Ends (79)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾" (19.05)	Epdm	EGPVE-79-NC-0.75	611-02761	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
	Viton	EGPVE-79-NC-0.75-V	611-02763	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1" (25.4)	Epdm	EGPVE-79-NC-1.0	611-02964	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
	Viton	EGPVE-79-NC-1.0-V	611-02972	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½" (38.1)	Epdm	EGPVE-79-NC-1.5	611-02976	16.89"	2.76"	2.76"	4.00"	1.49"	2.76"	0.87"
	Viton	EGPVE-79-NC-1.5-V	611-02984	(429)	(70)	(70)	(101.6)	(38.08)	(70)	(22.21)
2" (50.8)	Epdm	EGPVE-79-NC-2.0	611-02988	18.27"	3.5"	3.5"	4.00"	1.52"	3.11"	0.87"
	Viton	EGPVE-79-NC-2.0-V	611-02997	(464.0)	(89.0)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½" (63.5)	Epdm	EGPVE-79-NC-2.5	611-03001	20.75"	3.5"	3.5"	5.08"	1.53"	3.94"	1.25"
	Viton	EGPVE-79-NC-2.5-V	611-03009	(527.0)	(89.0)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3" (76.2)	Epdm	EGPVE-79-NC-3.0	611-03013	22.36"	3.27"	3.74"	5.08"	1.45"	4.76"	1.35"
	Viton	EGPVE-79-NC-3.0-V	611-03021	(568.0)	(83.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4" (101.6)	Epdm	EGPVE-79-NC-4.0	611-00876	27.32"	5"	4.88"	6.61"	1.65"	5.91"	1.18"
	Viton	EGPVE-79-NC-4.0-V	611-00886	(694.0)	(127.0)	(124.0)	(168)	(42)	(150)	(30)

I = Control Height 188 mm

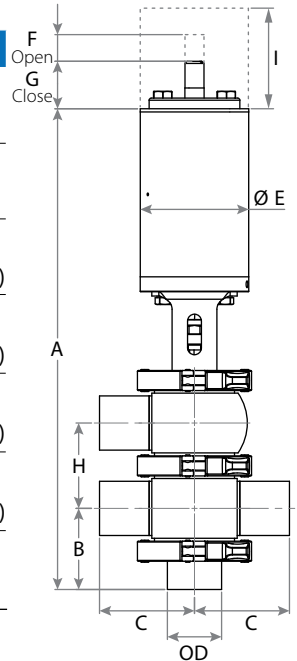


3A PVE Divert Valve Dimensions

Weld Ends (97)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾"	Epdm	EPVE-97-NC-0.75	611-02762	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
(19.05)	Viton	EPVE-97-NC-0.75-V	611-02770	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1"	Epdm	EPVE-97-NC-1.0	611-04062	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
(25.4)	Viton	EPVE-97-NC-1.0-V	611-04070	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½"	Epdm	EPVE-97-NC-1.5	611-04074	16.38"	2.24"	2.76"	4.00"	1.49"	2.76"	0.87"
(38.1)	Viton	EPVE-97-NC-1.5-V	611-04082	(416)	(57)	(70)	(101.6)	(38.08)	(70)	(22.21)
2"	Epdm	EPVE-97-NC-2.0	611-04086	17.76"	3"	3.5"	4.00"	1.52"	3.11"	0.87"
(50.8)	Viton	EPVE-97-NC-2.0-V	611-04094	(451.0)	(76.2)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½"	Epdm	EPVE-97-NC-2.5	611-04098	20.28"	3"	3.5"	5.08"	1.53"	3.94"	1.25"
(63.5)	Viton	EPVE-97-NC-2.5-V	611-04106	(515.0)	(76.2)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3"	Epdm	EPVE-97-NC-3.0	611-04110	21.85"	3.27"	3.74"	5.08"	1.45"	4.76"	1.35"
(76.2)	Viton	EPVE-97-NC-3.0-V	611-04118	(555.0)	(83.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4"	Epdm	EPVE-97-NC-4.0	611-00882	27.32"	5"	4.92"	6.61"	1.65"	5.91"	1.18"
(101.6)	Viton	EPVE-97-NC-4.0-V	611-00892	(694.0)	(127.0)	(125.0)	(168)	(42)	(150)	(30)

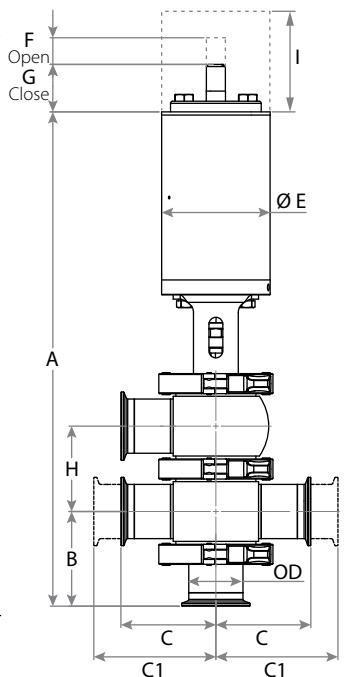
I = Control Height 188 mm



Clamp Ends (97)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾"	Epdm	EGPVE-97-NC-0.75	611-02765	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
(19.05)	Viton	EGPVE-97-NC-0.75-V	611-02766	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1"	Epdm	EGPVE-97-NC-1.0	611-03212	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
(25.4)	Viton	EGPVE-97-NC-1.0-V	611-03220	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½"	Epdm	EGPVE-97-NC-1.5	611-03224	16.89"	2.76"	2.76"	4.00"	1.49"	2.76"	0.87"
(38.1)	Viton	EGPVE-97-NC-1.5-V	611-03232	(429)	(70)	(70)	(101.6)	(38.08)	(70)	(22.21)
2"	Epdm	EGPVE-97-NC-2.0	611-03236	18.27"	3.5"	3.5"	4.00"	1.52"	3.11"	0.87"
(50.8)	Viton	EGPVE-97-NC-2.0-V	611-03244	(464.0)	(89.0)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½"	Epdm	EGPVE-97-NC-2.5	611-03248	20.75"	3.5"	3.5"	5.08"	1.53"	3.94"	1.25"
(63.5)	Viton	EGPVE-97-NC-2.5-V	611-03256	(527.0)	(89.0)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3"	Epdm	EGPVE-97-NC-3.0	611-03260	22.36"	3.74"	3.74"	5.08"	1.45"	4.76"	1.35"
(76.2)	Viton	EGPVE-97-NC-3.0-V	611-03268	(568.0)	(95.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4"	Epdm	EGPVE-97-NC-4.0	611-00880	27.32"	5"	4.88"	6.61"	1.65"	5.91"	1.18"
(101.6)	Viton	EGPVE-97-NC-4.0-V	611-00890	(694.0)	(127.0)	(124.0)	(168)	(42)	(150)	(30)

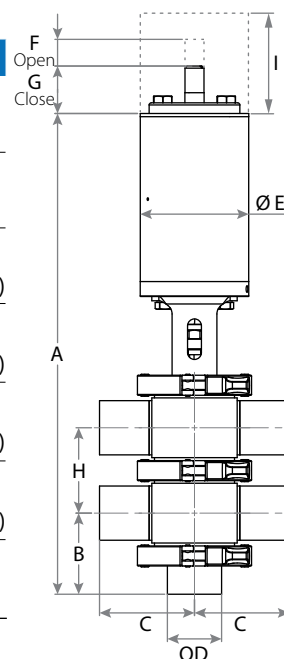
I = Control Height 188 mm



Weld Ends (99)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾" (19.05)	Epdm	EPVE-99-NC-0.75	611-02756	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
	Viton	EPVE-99-NC-0.75-V	611-02771	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1" (25.4)	Epdm	EPVE-99-NC-1.0	611-04189	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
	Viton	EPVE-99-NC-1.0-V	611-04197	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½" (38.1)	Epdm	EPVE-99-NC-1.5	611-04201	16.38"	2.76"	2.76"	4.00"	1.49"	2.76"	0.87"
	Viton	EPVE-99-NC-1.5-V	611-04209	(416)	(70)	(70)	(101.6)	(38.08)	(70)	(22.21)
2" (50.8)	Epdm	EPVE-99-NC-2.0	611-04213	17.76"	3"	3.5"	4.00"	1.52"	3.11"	0.87"
	Viton	EPVE-99-NC-2.0-V	611-04221	(451.0)	(76.2)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½" (63.5)	Epdm	EPVE-99-NC-2.5	611-04225	20.28"	3"	3.5"	5.08"	1.53"	3.94"	1.25"
	Viton	EPVE-99-NC-2.5-V	611-04106	(515.0)	(76.2)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3" (76.2)	Epdm	EPVE-99-NC-3.0	611-04237	21.85"	3.23"	3.74"	5.08"	1.45"	4.76"	1.35"
	Viton	EPVE-99-NC-3.0-V	611-04245	(555.0)	(82.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4" (101.6)	Epdm	EPVE-99-NC-4.0	611-00883	27.32"	5"	4.92"	6.61"	1.65"	5.91"	1.18"
	Viton	EPVE-99-NC-4.0-V	611-00893	(694.0)	(127.0)	(125.0)	(168)	(42)	(150)	(30)

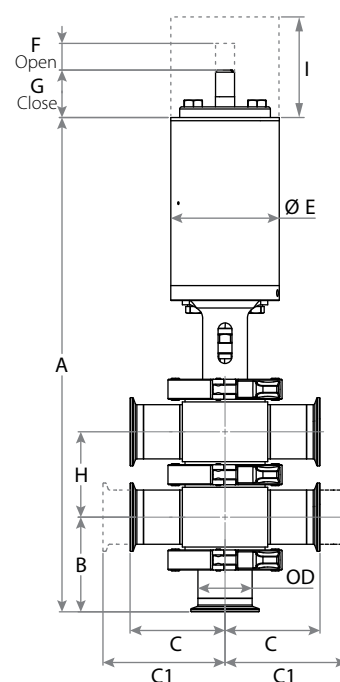
I = Control Height 188 mm



Clamp Ends (99)

Size/OD		Name	Item	A	B	C	E	G	H	F
¾" (19.05)	Epdm	EGPVE-99-NC-0.75	611-02747	11.8"	2.22"	2.6"	2.76"	1.15"	1.68"	0.38"
	Viton	EGPVE-99-NC-0.75-V	611-02767	(300.0)	(56.4)	(66.2)	(70.0)	(29.4)	(42.8)	(9.87)
1" (25.4)	Epdm	EGPVE-99-NC-1.0	611-03332	12.01"	2.00"	2.00"	2.76"	1.13"	1.97"	0.38"
	Viton	EGPVE-99-NC-1.0-V	611-03340	(305.2)	(50.8)	(50.8)	(70)	(28.8)	(50.0)	(9.79)
1½" (38.1)	Epdm	EGPVE-99-NC-1.5	611-03344	16.89"	2.76"	2.76"	4.00"	1.49"	2.76"	0.87"
	Viton	EGPVE-99-NC-1.5-V	611-03352	(429)	(70)	(70)	(101.6)	(38.08)	(70)	(22.21)
2" (50.8)	Epdm	EGPVE-99-NC-2.0	611-03356	18.27"	3.5"	3.5"	4.00"	1.52"	3.11"	0.87"
	Viton	EGPVE-99-NC-2.0-V	611-03365	(464.0)	(89.0)	(89.0)	(101.6)	(38.79)	(79.0)	(22.35)
2½" (63.5)	Epdm	EGPVE-99-NC-2.5	611-03369	20.75"	3.5"	3.5"	5.08"	1.53"	3.94"	1.25"
	Viton	EGPVE-99-NC-2.5-V	611-03377	(527.0)	(89.0)	(89.0)	(129)	(38.90)	(100.0)	(31.90)
3" (76.2)	Epdm	EGPVE-99-NC-3.0	611-03381	22.36"	3.74"	3.74"	5.08"	1.45"	4.76"	1.35"
	Viton	EGPVE-99-NC-3.0-V	611-03389	(568.0)	(95.0)	(95.0)	(129)	(37.00)	(121.0)	(34.30)
4" (101.6)	Epdm	EGPVE-99-NC-4.0	611-00881	27.32"	5"	4.88"	6.61"	1.65"	5.91"	1.18"
	Viton	EGPVE-99-NC-4.0-V	611-00891	(694.0)	(127.0)	(124.0)	(168)	(42)	(150)	(30)

I = Control Height 188 mm

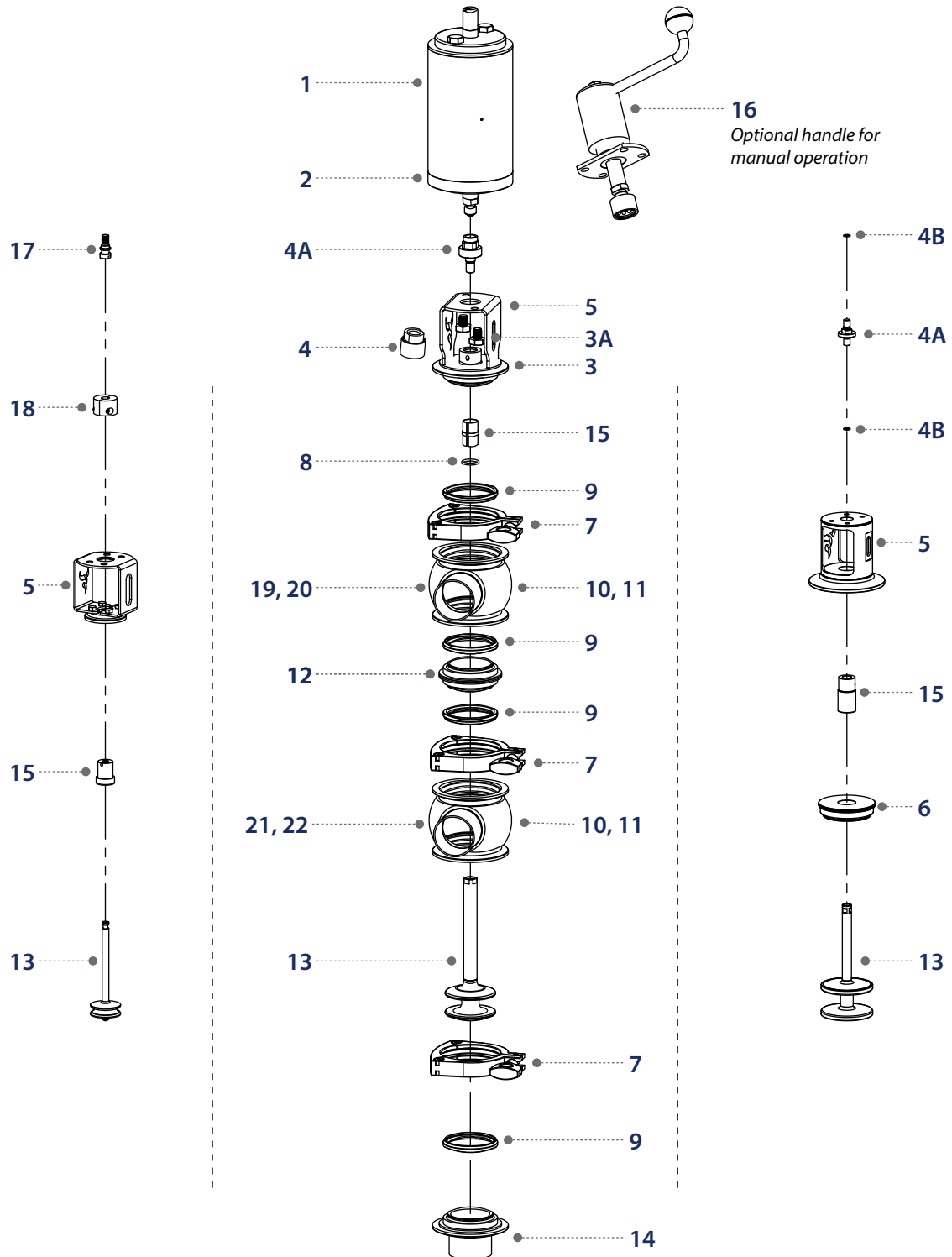


3A PVE Divert Valve Components & Materials

Size ¾" to 1"

Size 1½" to 3"

Size 4"



Parts List:

DIVERT VALVE: PART LIST For PVE sizes 3/4" (0.75") to 4"

Item #	Part Number	Description
1.	PVEP-1-NC-(NO)-¾ & 1.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-1.5 & 2.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-2.5 & 3.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-4.0	Actuator is reversible for normally open or normally closed
2.	PVEP-2-ALL	Air Inlet
3.	PVEP-3-¾ & 1.0	Fastening Bolts
	PVEP-3-1.5÷3.0	Fastening Bolts
	PVEP-3-4.0	Fastening Bolts
3A.	PVEP-3A-¾ & 1.0	Washer for fastening bolt
	PVEP-3A-1.5÷3.0	Washer for fastening bolt
	PVEP-3A-4.0	Washer for fastening bolt
4.	PVEP-4-ALL	Quick Disconnect Coupling (Optional)
4A.	PVEP-4-1.5÷3.0	Stem Coupling
	PVEP-4-4.0	Stem Coupling
5.	PVEP-5-¾ & 1.0	Bonnet & Yoke for ¾" & 1"
	PVEP-5-1.5	Bonnet & Yoke for 1½"
	PVEP-5-2.0	Bonnet & Yoke for 2"
	PVEP-5-2.5	Bonnet & Yoke for 2½"
	PVEP-5-3.0	Bonnet & Yoke for 3"
	PVEP-5-4.0	Bonnet & Yoke for 4"
6.	PVEP-6-4.0	Upper ring seal
7.	Clamp-¾&1.0" 2pc	Clamp (For¾&1.0" Valves)
	13MHHS Clamp-3" 3pc	Heavy Duty Clamp 3" 3 Piece clamp (For 1½" & 2" Valves)
	13MHHS Clamp-4" 3pc	Heavy Duty Clamp 4" 3 Piece clamp (For 2½" & 3" Valves)
	13MHHS Clamp-6" 3pc	Heavy Duty Clamp 6" 3 Piece clamp (For 4" Valve)
8.	PVEP-8-¾-1.0V	Viton® Stem O-Ring (For¾" & 1" Valves)
	PVEP-8-1.5-2.0 (V)	EPDM, or Viton® Stem O-Ring (For 1½" & 2" Valves)
	PVEP-8-2.5-3.0 (V)	EPDM or Viton® Stem O-Ring (For 2½" & 3" Valves)
	PVEP-8-4.0 (V)	EPDM or Viton® Stem O-Ring (For 4" Valve)
9.	PVEP-9-¾&1.0" (V)	EPDM or Viton® Seat Seal for¾" & 1"
	PVEP-9-1.5 (V)	EPDM or Viton® Seat Seal for 1½"
	PVEP-9-2.0 (V)	EPDM or Viton® Seat Seal for 2"
	PVEP-9-2.5 (V)	EPDM or Viton® Seat Seal for 2½"
	PVEP-9-3.0 (V)	EPDM or Viton® Seat Seal for 3"
	PVEP-9-4.0 (V)	EPDM or Viton® Seat Seal for 4"
10.	PVEP-7-10C-1.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-3.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-4.0	Tee Body (C=Clamp, W=Butt-Weld)
11.	PVEP-9-11C-1.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-3.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-4.0	Cross Body (C=Clamp, W=Butt-Weld)

Item #	Part Number	Description
12.	PVEP-12-1.0	Seal Base Adapter 1"
	PVEP-12-1.5	Seal Base Adapter 1½"
	PVEP-12-2.0	Seal Base Adapter 2"
	PVEP-12-2.5	Seal Base Adapter 2½"
	PVEP-12-3.0	Seal Base Adapter 3"
	PVEP-12-4.0	Seal Base Adapter 4"
13.	PVEP-77-13-¾	Stem for ¾" Divert Valve
	PVEP-77-13-1.0	Stem for 1" Divert Valve
	PVEP-77-13-1.5	Stem for 1½" Divert Valve
	PVEP-77-13-2.0	Stem for 2" Divert Valve
	PVEP-77-13-2.5	Stem for 2½" Divert Valve
	PVEP-77-13-3.0	Stem for 3" Divert Valve
	PVEP-77-13-4.0	Stem for 4" Divert Valve
14.	PVEP-14C-¾	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-1.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-1.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-3.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-4.0	Lower Connection (C=Clamp, W=Butt-Weld)
15.	PVEP-15-¾ & 1.0	Stem guide
	PVEP-15-1.5÷3.0	Stem guide
	PVEP-15-4.0	Stem guide
16.	PVEP-MANUAL-1.5÷3.0	Manual Handle (Optional .Fits 1.5÷3.0 Sizes)*
17.	PVEP- 17-3 & 1.0	Rod piston head (For¾" & 1" Valves)
18.	PVEP- 18-3 & 1.0	Split connection (For¾" & 1" Valves)
19.	PVEP-7-19C-¾	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-19C-1.0	Tee Body (C=Clamp, W=Butt-Weld)
20.	PVEP-9-20C-¾	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-20C-1.0	Cross Body (C=Clamp, W=Butt-Weld)
21.	PVEP-7-21C-¾	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-21C-1.0	Tee Body (C=Clamp, W=Butt-Weld)
22.	PVEP-9-22C-¾	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-22C-1.0	Cross Body (C=Clamp, W=Butt-Weld)

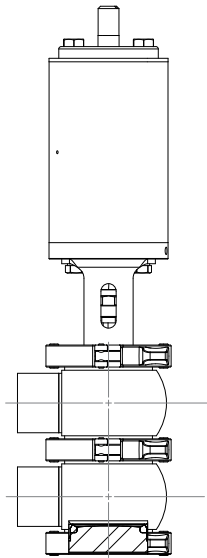
* Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling.

Divert Closed Outlet Valve

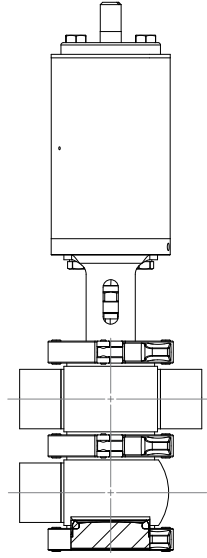
N/C or N/O operation mode in one actuator



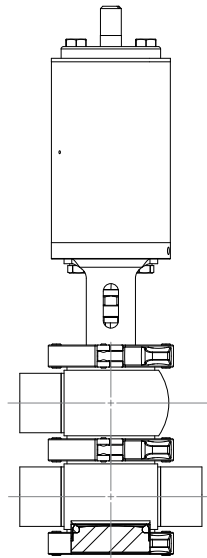
Weld Ends
(77)



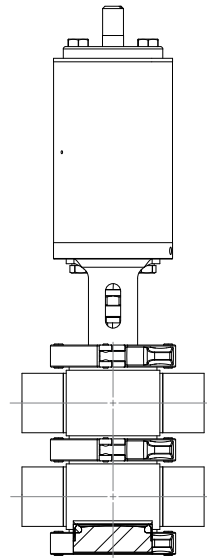
Weld Ends
(79)



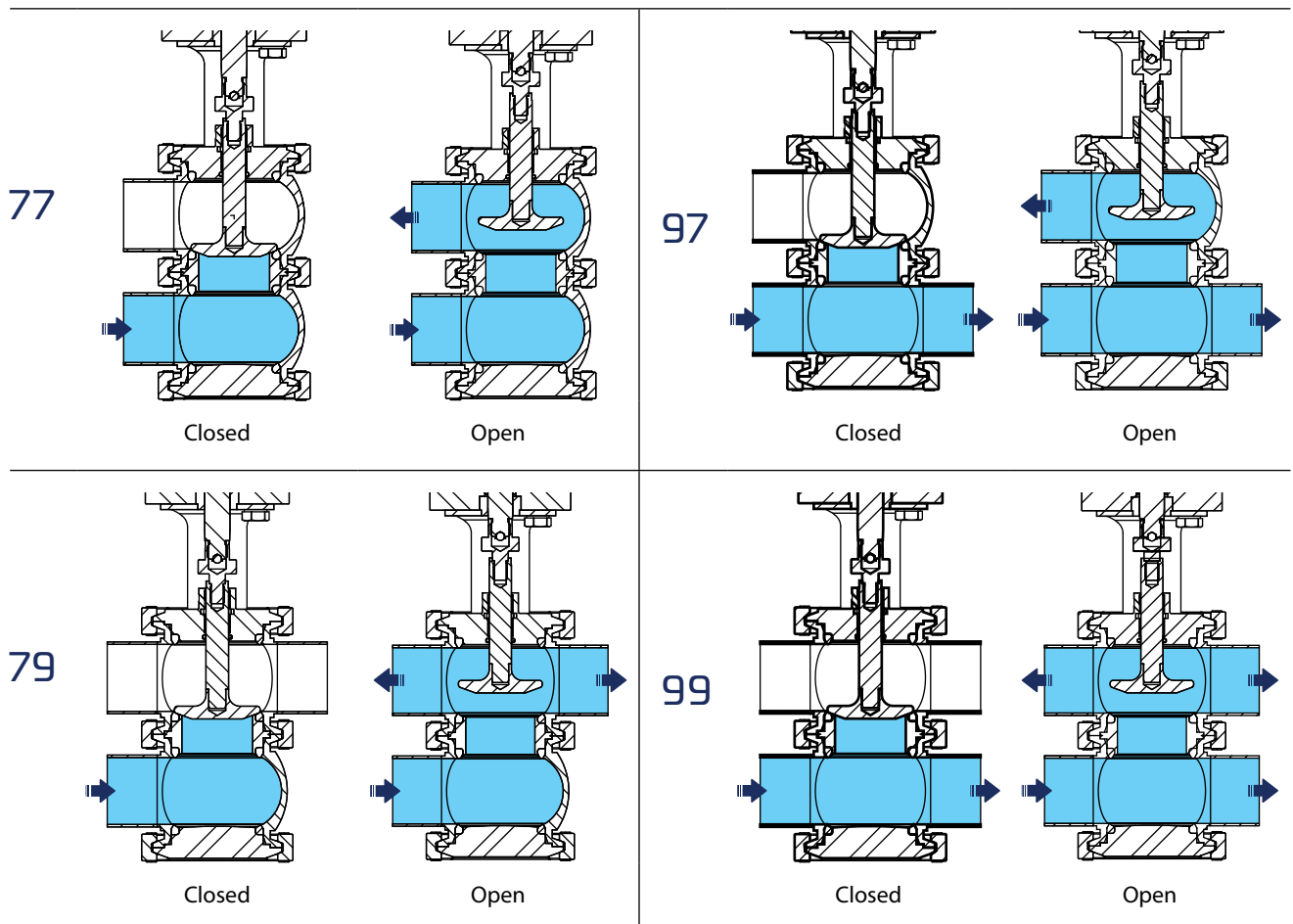
Weld Ends
(97)



Weld Ends
(99)



Configuration and Flow direction options



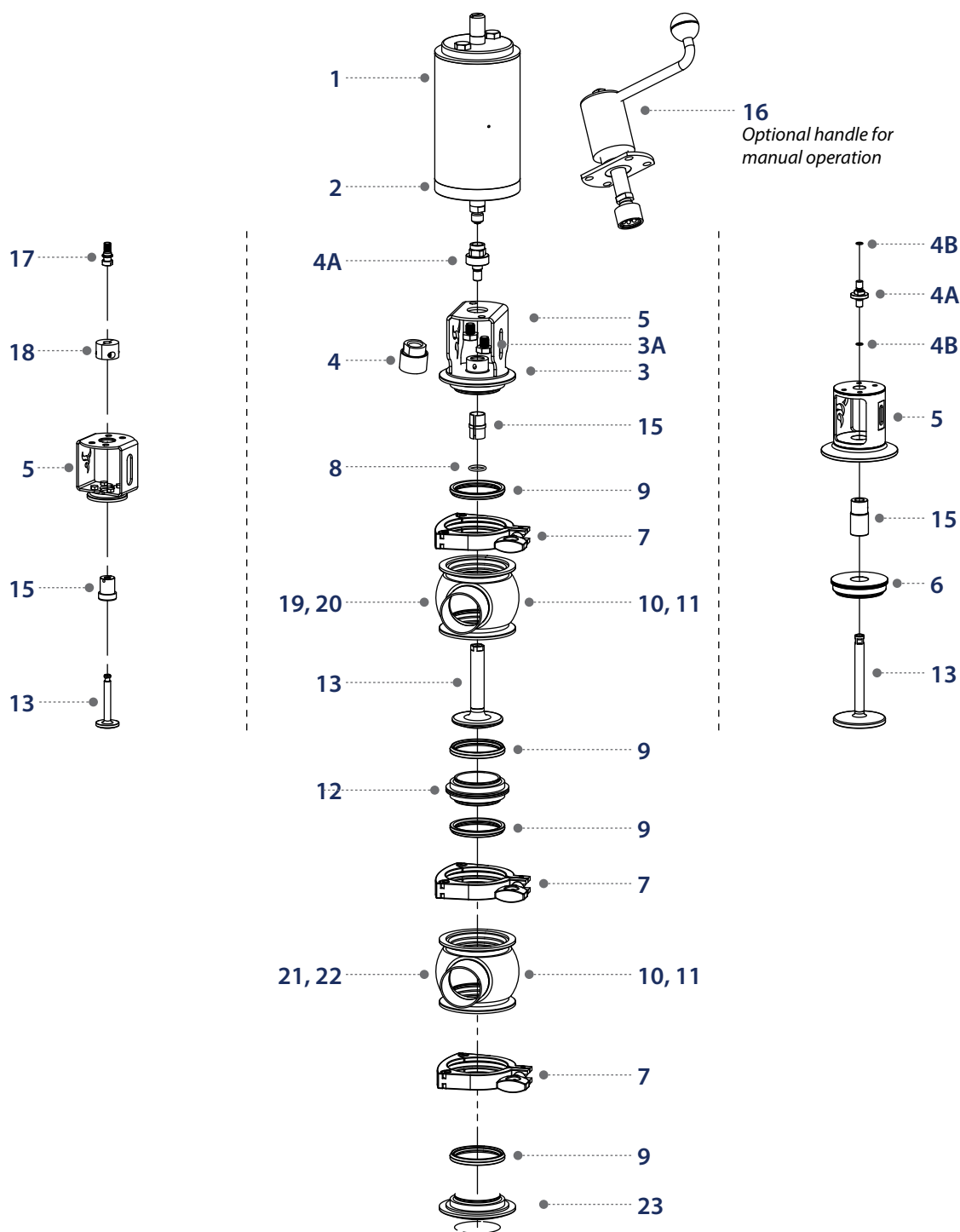
3A PVE Divert Closed Outlet Valve

Components & Materials

Size ¾" to 1"

Size 1½" to 3"

Size 4"



Parts List:

3A PVE DIVERT CLOSED OUTLET VALVE: PART LIST For PVE sizes 3/4" (0.75") to 4"

Item #	Part Number	Description
1.	PVEP-1-NC-(NO)-3/4 & 1.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-1.5 & 2.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-2.5 & 3.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-4.0	Actuator is reversible for normally open or normally closed
2.	PVEP-2-ALL	Air Inlet
3.	PVEP-3-3/4 & 1.0	Fastening Bolts
	PVEP-3-1.5÷3.0	Fastening Bolts
	PVEP-3-4.0	Fastening Bolts
3A.	PVEP-3A-3/4 & 1.0	Washer for fastening bolt
	PVEP-3A-1.5÷3.0	Washer for fastening bolt
	PVEP-3A-4.0	Washer for fastening bolt
4.	PVEP-4-ALL	Quick Disconnect Coupling (Optional)
4A.	PVEP-4-1.5÷3.0	Stem Coupling
	PVEP-4-4.0	Stem Coupling
5.	PVEP-5-3/4 & 1.0	Bonnet & Yoke for 3/4" & 1"
	PVEP-5-1.5	Bonnet & Yoke for 1 1/2"
	PVEP-5-2.0	Bonnet & Yoke for 2"
	PVEP-5-2.5	Bonnet & Yoke for 2 1/2"
	PVEP-5-3.0	Bonnet & Yoke for 3"
	PVEP-5-4.0	Bonnet & Yoke for 4"
6.	PVEP-6-4.0	Upper ring seal
7.	Clamp-3/4&1.0" 2pc	Clamp (For 3/4&1.0" Valves)
	13MHHS Clamp-3" 3pc	Heavy Duty Clamp 3" 3 Piece clamp (For 1 1/2" & 2" Valves)
	13MHHS Clamp-4" 3pc	Heavy Duty Clamp 4" 3 Piece clamp (For 2 1/2" & 3" Valves)
	13MHHS Clamp-6" 3pc	Heavy Duty Clamp 6" 3 Piece clamp (For 4" Valve)
8.	PVEP-8-3/4-1.0V	Viton® Stem O-Ring (For 3/4" & 1" Valves)
	PVEP-8-1.5-2.0 (V)	EPDM, or Viton® Stem O-Ring (For 1 1/2" & 2" Valves)
	PVEP-8-2.5-3.0 (V)	EPDM or Viton® Stem O-Ring (For 2 1/2" & 3" Valves)
	PVEP-8-4.0 (V)	EPDM or Viton® Stem O-Ring (For 4" Valve)
9.	PVEP-9-3/4&1.0" (V)	EPDM or Viton® Seat Seal for 3/4" & 1"
	PVEP-9-1.5 (V)	EPDM or Viton® Seat Seal for 1 1/2"
	PVEP-9-2.0 (V)	EPDM or Viton® Seat Seal for 2"
	PVEP-9-2.5 (V)	EPDM or Viton® Seat Seal for 2 1/2"
	PVEP-9-3.0 (V)	EPDM or Viton® Seat Seal for 3"
	PVEP-9-4.0 (V)	EPDM or Viton® Seat Seal for 4"
10.	PVEP-7-10C-1.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-3.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-4.0	Tee Body (C=Clamp, W=Butt-Weld)
11.	PVEP-9-11C-1.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-3.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-4.0	Cross Body (C=Clamp, W=Butt-Weld)

Parts List:

3A PVE DIVERT CLOSED OUTLET VALVE: PART LIST For PVE sizes 3/4" (0.75") to 4"

Item #	Part Number	Description
12.	PVEP-12-1.0	Seal Base Adapter 1"
	PVEP-12-1.5	Seal Base Adapter 1½"
	PVEP-12-2.0	Seal Base Adapter 2"
	PVEP-12-2.5	Seal Base Adapter 2½"
	PVEP-12-3.0	Seal Base Adapter 3"
	PVEP-12-4.0	Seal Base Adapter 4"
13.	PVEP-77-13-¾	Stem for ¾" Shut off
	PVEP-77-13-1.0	Stem for 1" Shut off
	PVEP-77-13-1.5	Stem for 1½" Shut off
	PVEP-77-13-2.0	Stem for 2" Shut off
	PVEP-77-13-2.5	Stem for 2½" Shut off
	PVEP-77-13-3.0	Stem for 3" Shut off
	PVEP-77-13-4.0	Stem for 4" Shut off
14.	PVEP-14C-¾	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-1.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-1.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-3.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-4.0	Lower Connection (C=Clamp, W=Butt-Weld)
15.	PVEP-15-¾ & 1.0	Stem guide
	PVEP-15-1.5÷3.0	Stem guide
	PVEP-15-4.0	Stem guide
16.	PVEP-MANUAL-1.5÷3.0	Manual Handle (Optional .Fits 1.5÷3.0 Sizes)*
17.	PVEP- 17-3 & 1.0	Rod piston head (For¾" & 1" Valves)
18.	PVEP- 18-3 & 1.0	Split connection (For¾" & 1" Valves)
19.	PVEP-7-19C-¾	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-19C-1.0	Tee Body (C=Clamp, W=Butt-Weld)
20.	PVEP-9-20C-¾	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-20C-1.0	Cross Body (C=Clamp, W=Butt-Weld)
21.	PVEP-7-21C-¾	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-21C-1.0	Tee Body (C=Clamp, W=Butt-Weld)
22.	PVEP-9-22C-¾	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-22C-1.0	Cross Body (C=Clamp, W=Butt-Weld)
23.	PVEP-23C-¾	Closed outlet
	PVEP-23C-1.0	Closed outlet
	PVEP-23C-1.5	Closed outlet
	PVEP-23C-2.0	Closed outlet
	PVEP-23C-2.5	Closed outlet
	PVEP-23C-3.0	Closed outlet
	PVEP-23C-4.0	Closed outlet

* Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling.

PVE Change-over Closed Outlet Valve*

Weld Ends

N/C or N/O operation mode in one actuator



* Vertical position is recommended for maximum endurance.
Available upon request

3A PVE - Pressure Relief Valve (Overflow Valve)

The primary purpose of a pressure- or vacuum-relief valve is to protect life and property by venting process fluid from an over-pressurized vessel, or adding fluid or gas (such as air) to prevent the formation of a vacuum strong enough to collapse a storage tank.

- ✓ Operates as a pressure-release valve with the option to completely open the valve using a pneumatic actuator
- ✓ Overflow valves are used mainly for automatic CIP operation or bypass

Pressure Relief Valve Properties:

- ✓ Operating pressure 2- 7 bar
- ✓ Pressure to open pneumatically - Min 5 - Max 5 bar
- ✓ Construction materials:
 - Actuator: AISI 304L
 - Valve Body: AISI 316L & EPDM / Viton gaskets
- ✓ Inside surface finish $\leq 32 \mu\text{in Ra}$
- ✓ Calibrated to a certain pressure according to the customer request



How To Order Pressure Relief Valve

E	G	P	V	E	-	RELIEF	-	1	.	0	-	E	-	Q
Valve Type				Valve Configuration			Size		Seals		Coupling Type			

Type Connection	Valve Configuration	Size	Seals	Control	Coupling Type
EGPVE - CLAMP EPVE - WELD	Relief	1.0* 1.5 2.0 2.5* 3.0*	EPDM - is the default *** V - Viton	1IPS - One Inductive Proximity Switch ** 2IPS - Two Inductive Proximity Switch ** (Proximity Switch Diameter 12mm)	Stem coupling - is the default Q - Quick Disconnect

* Available upon request

** Optional By customer

*** Stem O-ring in 1.0" are only Viton

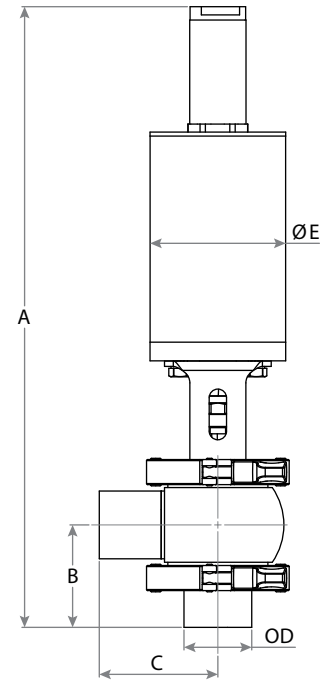
**** Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling

3A PVE Pressure Relief Valve Dimensions

Weld Ends (7)

Size/OD		Name	Item	A	B	C	E
1½" (38.1)	Epdm	EPVE-RELIEF-1.5	611-04439	17.40	2.24	2.76	4.00
	Viton	EPVE-RELIEF-1.5-V	611-04441	(442)	(57)	(70)	(101.6)
2" (50.8)	Epdm	EPVE-RELIEF-2.0	611-04442	18.31	3.00	3.50	4.00
	Viton	EPVE-RELIEF-2.0-V	611-04444	(465)	(76.2)	(89)	(101.6)
2½"* (63.5)	Epdm	EPVE-RELIEF-2.5	611-04445	N/A	N/A	N/A	N/A
	Viton	EPVE-RELIEF-2.5-V	611-04447				
3"* (76.2)	Epdm	EPVE-RELIEF-3.0	611-04448	N/A	N/A	N/A	N/A
	Viton	EPVE-RELIEF-3.0-V	611-04450				

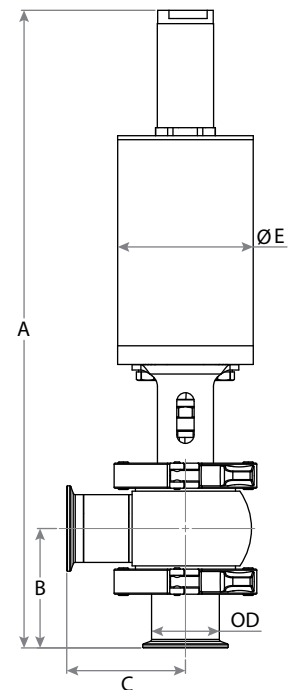
* Available upon request



Clamp Ends (7)

Size/OD		Name	Item	A	B	C	E
1½" (38.1)	Epdm	EGPVE-7-NC-1.5	611-03098	17.87	2.76	2.76	4.00
	Viton	EGPVE-7-NC-1.5-V	611-03106	(454)	(70)	(70)	(101.6)
2" (50.8)	Epdm	EGPVE-7-NC-2.0	611-03110	18.82	3.50	3.50	4.00
	Viton	EGPVE-7-NC-2.0-V	611-03119	(478)	(89)	(89)	(101.6)
2½"* (63.5)	Epdm	EGPVE-7-NC-2.5	611-03124	N/A	N/A	N/A	N/A
	Viton	EGPVE-7-NC-2.5-V	611-03133				
3"* (76.2)	Epdm	EGPVE-7-NC-3.0	611-03137	N/A	N/A	N/A	N/A
	Viton	EGPVE-7-NC-3.0-V	611-03146				

* Available upon request

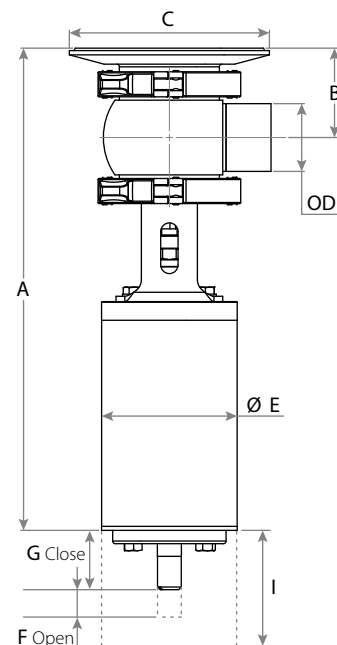


3A PVE Tank Bottom Valve Dimensions

Weld Ends (7)

Size/OD		Name	Item	A	B	C	E	G	F
1"	Epdm	EPVE-TANK-NC-1.0	611-04456	N/A	N/A	N/A	N/A	N/A	N/A
(25.4)	Viton	EPVE-TANK-NC-1.0-V	611-04464						
1½"	Epdm	EPVE-TANK-NC-1.5	611-04468	13.82	2.36	5.91	4.00	2.32	1.00
(38.1)	Viton	EPVE-TANK-NC-1.5-V	611-04476	(351)	(60)	(150)	(101.6)	(59)	(25.4)
2"	Epdm	EPVE-TANK-NC-2.0	611-04480	14.21	2.56	5.91	4.00	2.36	1.06
(50.8)	Viton	EPVE-TANK-NC-2.0-V	611-04488	(361)	(65)	(150)	(101.6)	(60)	(26.8)
2½"	Epdm	EPVE-TANK-NC-2.5	611-04492	15.35	3.23	7.09	4.00	2.17	1.00
(63.5)	Viton	EPVE-TANK-NC-2.5-V	611-04501	(390)	(82)	(180)	(101.6)	(55)	(25.4)
3"	Epdm	EPVE-TANK-NC-3.0	611-04505	17.76	3.82	7.87	5.08	2.05	1.53
(76.2)	Viton	EPVE-TANK-NC-3.0-V	611-04513	(451)	(97)	(200)	(129)	(52)	(38.9)

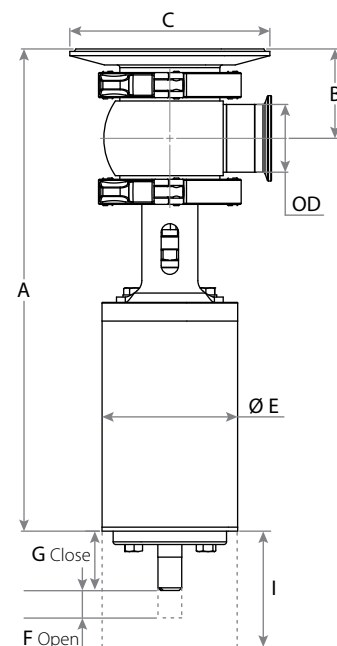
I = Control Height 188 mm



Clamp Ends (7)

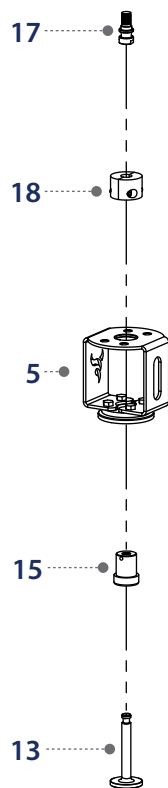
Size/OD		Name	Item	A	B	C	E	G	F
1"	Epdm	EGPVE-TANK-NC-1.0	611-03589	N/A	N/A	N/A	N/A	N/A	N/A
(25.4)	Viton	EGPVE-TANK-NC-1.0-V	611-03597						
1½"	Epdm	EGPVE-TANK-NC-1.5	611-03601	13.82	2.36	5.91	4.00	2.32	1.00
(38.1)	Viton	EGPVE-TANK-NC-1.5-V	611-03609	(351)	(60)	(150)	(101.6)	(59)	(25.4)
2"	Epdm	EGPVE-TANK-NC-2.0	611-03613	14.21	2.56	5.91	4.00	2.36	1.06
(50.8)	Viton	EGPVE-TANK-NC-2.0-V	611-03621	(361)	(65)	(150)	(101.6)	(60)	(26.8)
2½"	Epdm	EGPVE-TANK-NC-2.5	611-03625	15.35	3.23	7.09	4.00	2.17	1.00
(63.5)	Viton	EGPVE-TANK-NC-2.5-V	611-03633	(390)	(82)	(180)	(101.6)	(55)	(25.4)
3"	Epdm	EGPVE-TANK-NC-3.0	611-03637	17.76	3.82	7.87	5.08	2.05	1.53
(76.2)	Viton	EGPVE-TANK-NC-3.0-V	611-03645	(451)	(97)	(200)	(129)	(52)	(38.9)

I = Control Height 188 mm

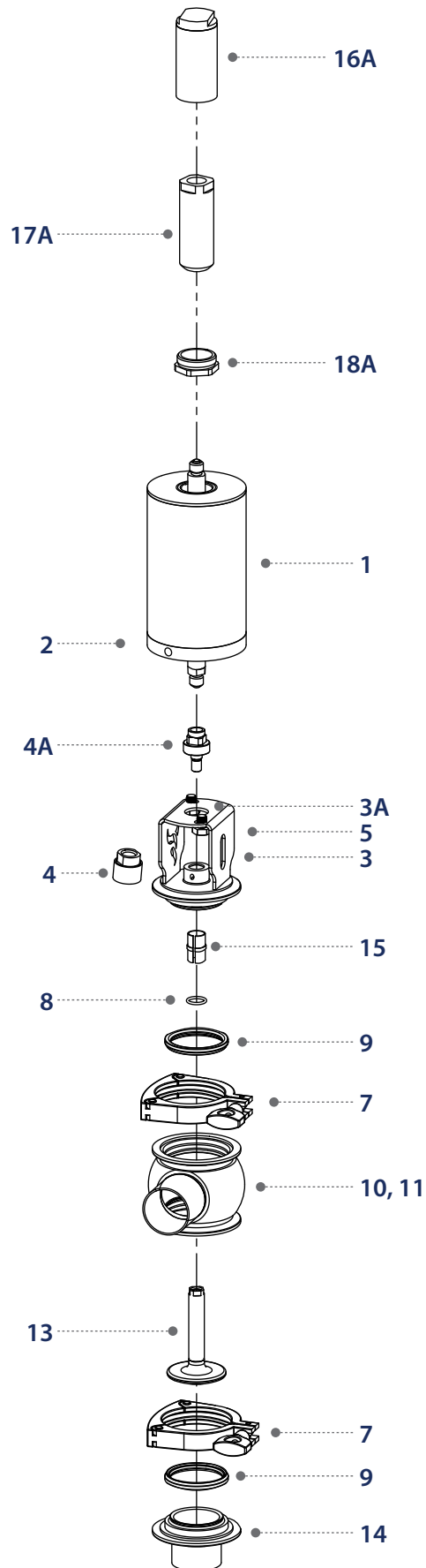


3A PVE Pressure Relief Valve Components & Materials

Size $\frac{3}{4}$ " to 1"



Size $1\frac{1}{2}$ " to 3"



Parts List:

3A PVE PRESSURE RELIEF VALVE: PART LIST For PVE sizes 1"* to 3"

Item #	Part Number	Description
1.	PVEP-1-NC-(NO)-¾ & 1.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-1.5 & 2.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-2.5 & 3.0	Actuator is reversible for normally open or normally closed
2.	PVEP-2-ALL	Air Inlet
3.	PVEP-3-¾ & 1.0	Fastening Bolts
	PVEP-3-1.5÷3.0	Fastening Bolts
3A.	PVEP-3A-¾ & 1.0	Washer for fastening bolt
	PVEP-3A-1.5÷3.0	Washer for fastening bolt
4.	PVEP-4-ALL	Quick Disconnect Coupling (Optional)
4A.	PVEP-4-1.5÷3.0	Stem Coupling
5.	PVEP-5-¾ & 1.0	Bonnet & Yoke for ¾" & 1"
	PVEP-5-1.5	Bonnet & Yoke for 1½"
	PVEP-5-2.0	Bonnet & Yoke for 2"
	PVEP-5-2.5	Bonnet & Yoke for 2½"
	PVEP-5-3.0	Bonnet & Yoke for 3"
7.	Clamp-¾&1.0" 2pc	Clamp (For¾&1.0" Valves)
	13MHHS Clamp-3" 3pc	Heavy Duty Clamp 3" 3 Piece clamp (For 1½" & 2" Valves)
	13MHHS Clamp-4" 3pc	Heavy Duty Clamp 4" 3 Piece clamp (For 2½" & 3" Valves)
8.	PVEP-8-¾-1.0 V	Viton® Stem O-Ring (For ¾" & 1" Valves)
	PVEP-8-1.5-2.0 (V)	EPDM, or Viton® Stem O-Ring (For 1½" & 2" Valves)
	PVEP-8-2.5-3.0 (V)	EPDM or Viton® Stem O-Ring (For 2½" & 3" Valves)
9.	PVEP-9-¾&1.0" (V)	EPDM or Viton® Seat Seal for¾&1.0"
	PVEP-9-1.5 (V)	EPDM or Viton® Seat Seal for 1½"
	PVEP-9-2.0 (V)	EPDM or Viton® Seat Seal for 2"
	PVEP-9-2.5 (V)	EPDM or Viton® Seat Seal for 2½"
	PVEP-9-3.0 (V)	EPDM or Viton® Seat Seal for 3"
10.	PVEP-7-10C-1.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-1.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-3.0	Tee Body (C=Clamp, W=Butt-Weld)
11.	PVEP-9-11C-1.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-1.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-3.0	Cross Body (C=Clamp, W=Butt-Weld)
13.	PVEP-7-13-1.0	Stem for 1" Shut off
	PVEP-7-13-1.5	Stem for 1½" Shut off
	PVEP-7-13-2.0	Stem for 2" Shut off
	PVEP-7-13-2.5	Stem for 2½" Shut off
	PVEP-7-13-3.0	Stem for 3" Shut off
14.	PVEP-14C-1.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-1.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.0	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-2.5	Lower Connection (C=Clamp, W=Butt-Weld)
	PVEP-14C-3.0	Lower Connection (C=Clamp, W=Butt-Weld)

Parts List:

3A PVE PRESSURE RELIEF VALVE: PART LIST For PVE sizes 1"* to 3"

Item #	Part Number	Description
15.	PVEP-15-¾ & 1.0	Stem guide
	PVEP-15-1.5 & 3.0	Stem guide
16A.	PVEP-16A-1.0	Cup
	PVEP-16A-1.5 & 2.0	Cup
	PVEP-16A-2.5 & 3.0	Cup
17.	PVEP- 17-¾ & 1.0	Rod piston head (For¾" & 1" Valves)
17A.	PVEP-17A-1.0	Calibrating screw
	PVEP-17A-1.5 & 2.0	Calibrating screw
	PVEP-17A-2.5 & 3.0	Calibrating screw
18.	PVEP- 18-¾ & 1.0	Split connection (For¾" & 1" Valves)
18A.	PVEP-18A-1.0	Locking nut
	PVEP-18A-1.5 & 2.0	Locking nut
	PVEP-18A-2.5 & 3.0	Locking nut

* 1" upon request

3A PVE Tank Bottom Valve

The Tank Bottom valve is a pneumatically actuated single seat valve used to shut off fluid media at vessels or tanks. Tank Bottom valves are assembled at the bottom of tanks in the dairy, food & beverage, pharmaceutical and chemical industries. Constructed from AISI 316L Stainless steel and electro-polished, the Tank Bottom valve optimizes CIP/SIP procedures by ensuring complete drainage of the tank.

Key Advantages:

- ✓ Easy and quick assembly / disassembly due to one piece valve structure
- ✓ Zero dead leg design with minimum maintenance requirements
- ✓ Designed to fully drain the tank

Tank Bottom Valve Properties:

- ✓ Operating pressure 2-7 bar
- ✓ Pressure to open pneumatically - Min 5 - Max 5 bar
- ✓ Construction materials:
 - Actuator: AISI 304L
 - Valve Body: AISI 316L & EPDM / Viton gaskets
- ✓ Inside surface finish $\leq 32 \mu\text{in Ra}$

N/C or N/O operation mode in one actuator



How To Order Tank Bottom Valve

E	G	P	V	E	-	TANK	-	N	C	-	1.0	-	V	-	A	S	I	-	Q
Valve Type						Valve Configuration		Actuation Type			Size		Seals		Control Head		Coupling Type		

Type Connection	Valve Configuration	Actuation Type	Size	Seals	Control Head	Coupling Type
EGPVE - CLAMP EPVE - WELD	Tank	NC NO	1.0 1.5 2.0 2.5 3.0	EPDM - is the default *** V - Viton *	ASI 24V 1IPS - One Inductive Proximity Switch ** 2IPS - Two Inductive Proximity Switch ** (Proximity Switch Diameter 12mm)	Stem coupling - is the default Q - Quick Disconnect

* Available upon request

** Optional By customer

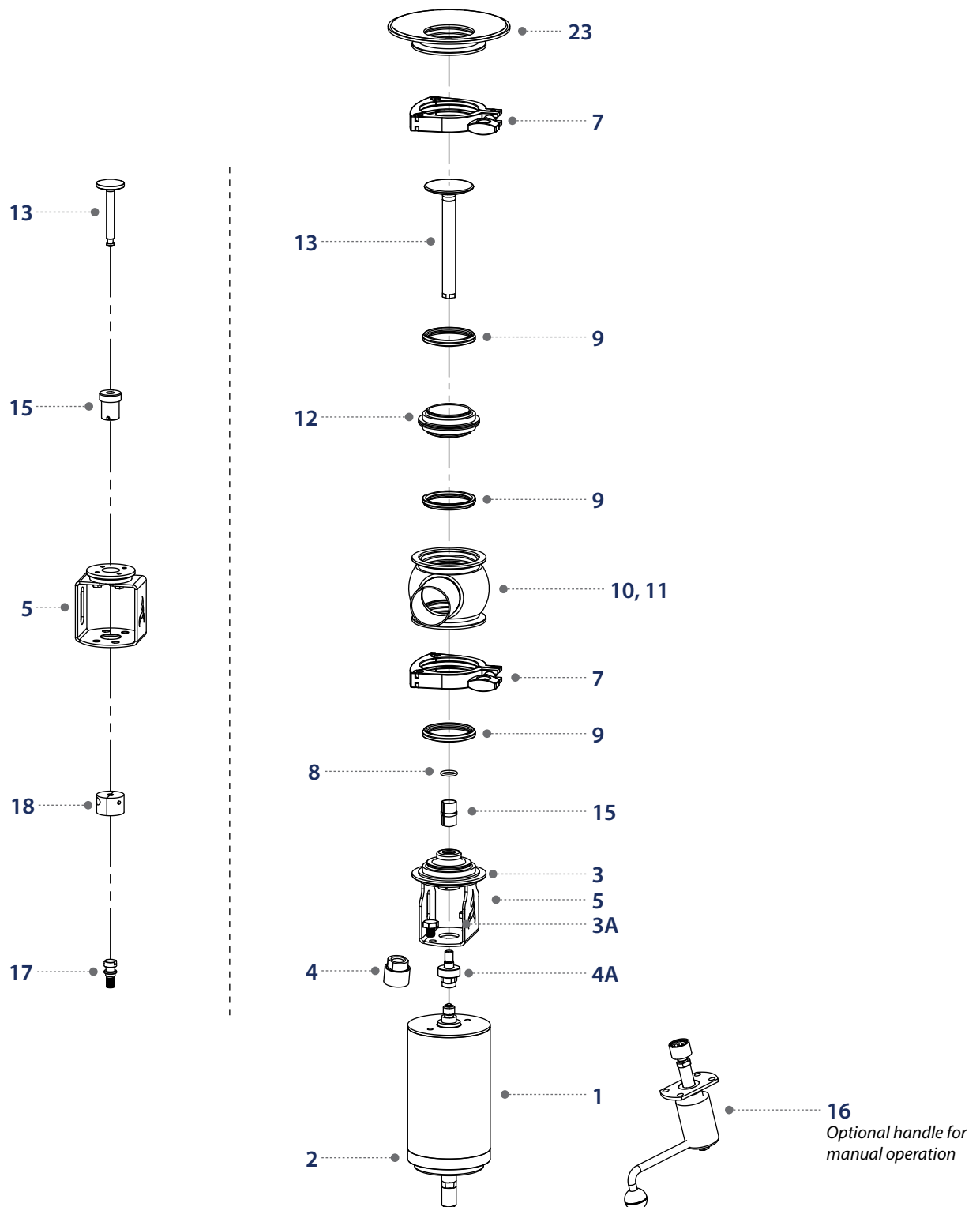
*** Stem O-ring in 1.0" are only Viton

**** Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling

3A PVE Tank Bottom Valve Components & Materials

Size 1"*

Size 1½" to 3"



* 1" upon request

Parts List:

3A PVE TANK BOTTOM VALVE: PART LIST For PVE sizes 1"* to 3"

Item #	Part Number	Description
1.	PVEP-1-NC-(NO)-¾ & 1.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-1.5 & 2.0	Actuator is reversible for normally open or normally closed
	PVEP-1-NC-(NO)-2.5 & 3.0	Actuator is reversible for normally open or normally closed
2.	PVEP-2-ALL	Air Inlet
3.	PVEP-3-¾ & 1.0	Fastening Bolts
	PVEP-3-1.5÷3.0	Fastening Bolts
3A.	PVEP-3A-¾ & 1.0	Washer for fastening bolt
	PVEP-3A-1.5÷3.0	Washer for fastening bolt
4.	PVEP-4-ALL	Quick Disconnect Coupling (Optional)
4A.	PVEP-4-1.5÷3.0	Stem Coupling
5.	PVEP-TANK-5-1.0	Bonnet & Yoke
	PVEP-TANK-5-1.5	Bonnet & Yoke
	PVEP-TANK-5-2.0	Bonnet & Yoke
	PVEP-TANK-5-2.5	Bonnet & Yoke
	PVEP-TANK-5-3.0	Bonnet & Yoke
7.	Clamp-¾&1.0" 2pc	Clamp (For¾&1.0" Valves)
	13MHHS Clamp-3" 3pc	Heavy Duty Clamp 3" 3 Piece clamp (For 1½" & 2" Valves)
	13MHHS Clamp-4" 3pc	Heavy Duty Clamp 4" 3 Piece clamp (For 2½" & 3" Valves)
8.	PVEP-8-¾-1.0 V	Viton® Stem O-Ring (For ¾" & 1" Valves)
	PVEP-8-1.5-2.0 (V)	EPDM, or Viton® Stem O-Ring (For 1½" & 2" Valves)
	PVEP-8-2.5-3.0 (V)	EPDM or Viton® Stem O-Ring (For 2½" & 3" Valves)
9.	PVEP-9-¾&1.0" (V)	EPDM or Viton® Seat Seal for¾&1.0"
	PVEP-9-1.5 (V)	EPDM or Viton® Seat Seal for 1½"
	PVEP-9-2.0 (V)	EPDM or Viton® Seat Seal for 2"
	PVEP-9-2.5 (V)	EPDM or Viton® Seat Seal for 2½"
	PVEP-9-3.0 (V)	EPDM or Viton® Seat Seal for 3"
10.	PVEP-7-10C-1.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-1.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.0	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-2.5	Tee Body (C=Clamp, W=Butt-Weld)
	PVEP-7-10C-3.0	Tee Body (C=Clamp, W=Butt-Weld)
11.	PVEP-9-11C-1.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-1.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.0	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-2.5	Cross Body (C=Clamp, W=Butt-Weld)
	PVEP-9-11C-3.0	Cross Body (C=Clamp, W=Butt-Weld)
12.	PVEP-12-1.5	Seal Base Adapter
	PVEP-12-2.0	Seal Base Adapter
	PVEP-12-2.5	Seal Base Adapter
	PVEP-12-3.0	Seal Base Adapter
13.	PVEP-TANK-13-1.0	Stem
	PVEP-TANK-13-1.5	Stem
	PVEP-TANK-13-2.0	Stem
	PVEP-TANK-13-2.5	Stem
	PVEP-TANK-13-3.0	Stem
15.	PVEP-15-¾ & 1.0	Stem guide
	PVEP-15-1.5÷3.0	Stem guide
16.	PVEP-MANUAL-1.5÷3.0	Manual Handle (Optional .Fits 1.5÷3.0 Sizes)**
17.	PVEP- 17-¾ & 1.0	Rod piston head (For¾" & 1" Valves)

* 1" upon request

** Manual Handle to be used only with #4 PVEP-4-ALL Quick Disconnect Coupling.

3A PVE Control Head

FlowStar Control Top

This new control top has been developed specifically for seat valves. It serves as a custom-fit solution for our in-house single seat valves to achieve an even more efficient and precise application.

The well-established contact-free position measuring with proximity switch has been implemented here.

FlowStar is available in the models 24 VDC, AS-I bus.

Features:

- ✓ Linear measuring
- ✓ Contact free measuring
- ✓ ASi and Direct I/O connection available
- ✓ Pneumatic 3/2 solenoid valve (manually operating available)
- ✓ Up to 3 positions to be set
- ✓ Fast and easy calibration
- ✓ Visual and electrical feedback
- ✓ Circuit boards have an anti-corrosion coating
- ✓ Safety device for overpressure in the base housing
- ✓ Sealed connection
- ✓ Fast and easy installation
- ✓ Suitable for all types and sizes of PVE valves
- ✓ Control Head Color change automatically:
Green = Close Position, Amber = Open Position

N/C or N/O operation
mode in one actuator



Control Head - Versions

Valve size	Part Number	
	24V	ASIBUS
0.75"-1.0"	618-01002	618-01003
1.5"-3.0"	618-00992	618-00993
4.0"	618-00997	618-00998

* Includes all connection accessories

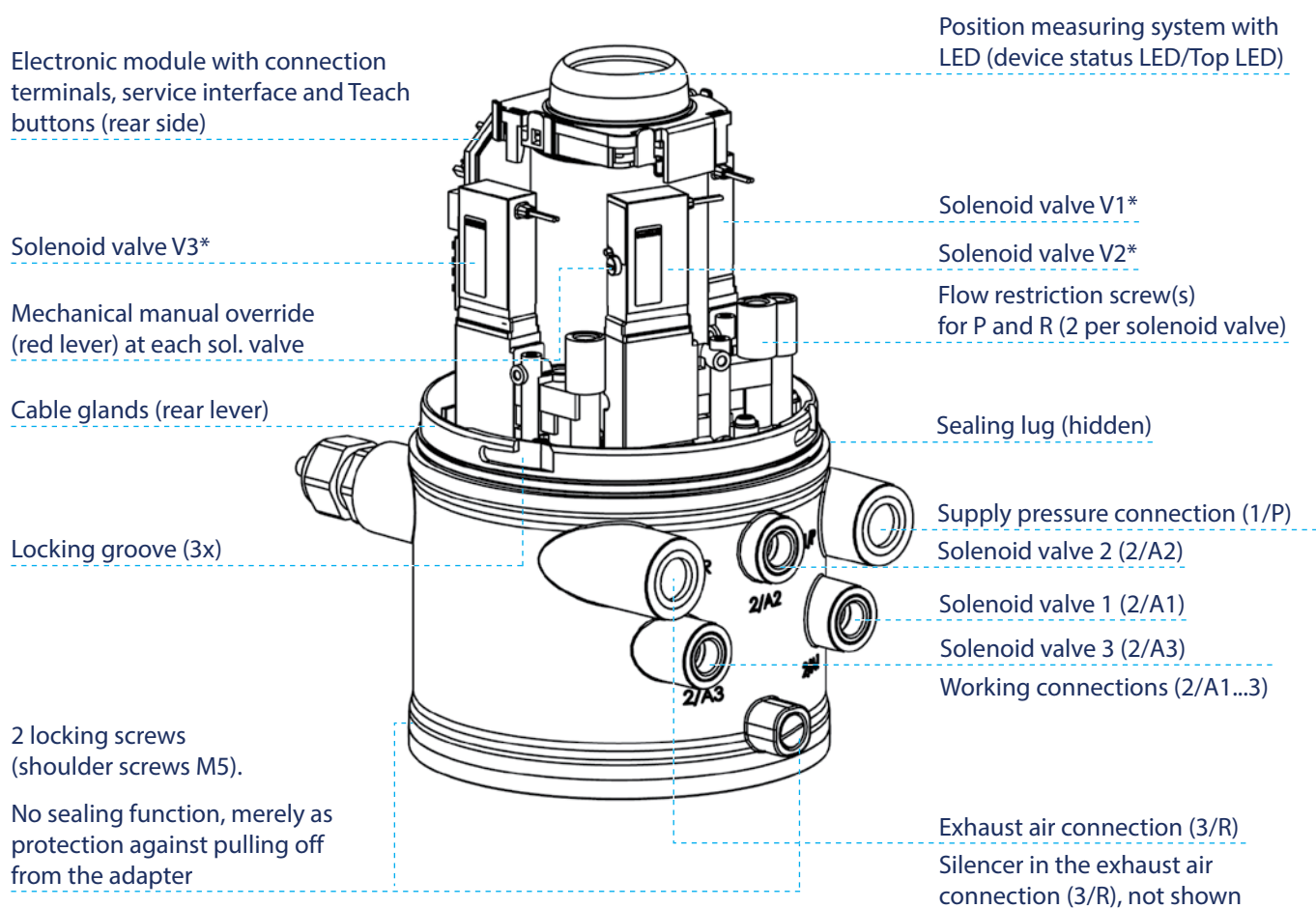
How To Order

To specify the part completely, start with the product description and select the additional options as shown below:

PVEP	-	CH	-	SR	-	1.0 - 0.75	-	24V
		Product Line		Action		Valve Size		Control Head
		Control head PVE - Linear		SR - Spring Return		0.75-1.0 1.5-3.0 4.0		24 V ASi Bus I/O Link *

* By Customer

Structure



* Solenoid valves V2 and V3 - optional

Control Head Types

24VDC

- ✓ Direct I/O 24VDC Valve controller
 - ✓ With integrated LED dome (Green-closed / Amber-open)
 - ✓ With Auto calibration for position indication
 - ✓ Mounting on Valve through mounting kit
- Direct I/O controller for linear Valves spring return

Equipped with:

- Baseplate (POM)
- 3/2 way Solenoid
- Transparent screw cover
- With auto calibration for position indication
- With LED DOME
- 5-pole M12x1 connector
- Air connection for 6 mm air hose

ASI

- ✓ AS-Interface Valve controller
 - ✓ With integrated LED dome (Green-closed / Amber-open)
 - ✓ With Auto calibration for position indication
 - ✓ Mounting on Valve through mounting kit
 - ✓ Slave Profile : S-3/A.0.E
- AS-Interface controller for linear Valves spring return

Equipped with:

- Baseplate (POM)
- 3/2 way Solenoid
- Transparent screw cover
- with auto calibration for position indication
- 1 AS-Interface electronic module with LED DOME
- 4-pole M12x1 connector
- Air connection for 6 mm air hose

I/O Link Headline

- ✓ IO-Link is a worldwide standardized IO technology (IEC 61131-9) for communicating with sensors and actuators.
- ✓ IO-Link is a point-to-point communication system with 3 or 5 conductor connection technology for sensors and actuators and unshielded standard sensor lines.
- ✓ Control top (IO-Link design) is available in 2 variants:
- ✓ Port class A: with a shared power supply (Power 1) for the supply of the system and actuators (solenoid valves) or Port class B: with power supply (Power 1) for the system supply and Power 2 for separate supply of the actuators (solenoid valves), which allows for a safety shutdown of the solenoid valves only.

Technical specification:

Parameter	24 V	AS-I bus	I/O Link
Working temperature	14°F(-10°C)...131°F(55 °C)		Ambient temperature: Standard version:14°F (-10°C)...131°F (55 °C) in a potentially explosive atmosphere (zone 2): 41°F (5°C)...131°F (55 °C)
Protection class	IP65/IP67**		Protection Class 3 in accordance with DIN EN 61140 (VDE 0140-1)
Max. working pressure	116 psi (8 bar)		36.25 psi to 116psi (2.5 bar to 8 bar)
Weight	~1.76 lb (0.8 kg)		Approx. 1.76lb (0.8kg)
Housing material:			Hood: PC (transparent, partly coated inside) lower part: PPE-PS GF20, blue cable gland: PA
Hood	PC		PC (transparent, partly coated inside)
Base	PPE-PS GF20		
Cable gland	PA		PA
Sealing material	NBR		Exterior: EPDM, NBR
Stroke range	0 ... 3.15" (80 mm)		0 ... 3.15" (80mm)
Power Supply	12~28 VDC	29.5~31.6VDC 21.0~31.6 VDC	18...30 V DC (according to specification)
Power Consumption	2.6 W	2.9 W	
Electrical connection	M16 x 1.5 cable gland/size22	15 cm cable with multipole connector M12, 4-pole	Port A Class - Circular plug-in connector M12 x 1, 4-pole Port B Class - Circular plug-in connector M12 x 1, 5-pole

** IP 67 can be achieved ONLY when an approved technician performs the assembly and the hood is sealed properly

Current consumption:

- Port class A (supply of the system and actuators (solenoid valves) via Power 1)
- Port class B (system supply via Power 1, supply of actuators (solenoid valves) via Power 2)

Max. current consumption:

i.e. 2 solenoid valves active, 1 solenoid valve switches on (for 200 ms),
1 position feedback via LED display, no external proximity switch:

- Port class A (Power 1): <151 mA at 24 V DC
- Port class B (Power 1): <63 mA at 24 V DC
- Port class B (Power 2): <97 mA at 24 V DC

Current consumption in the persistent state:

i.e. 3 solenoid valves active, 1 position feedback via LED Display,
no external proximity switch:

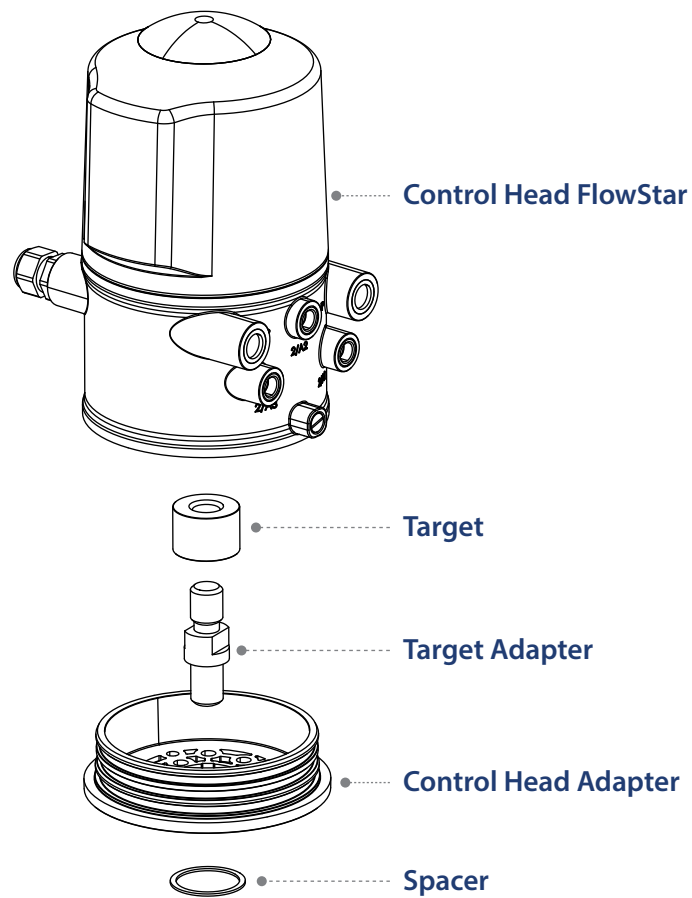
- Port class A (Power 1): <138 mA at 24 V DC
- Port class B (Power 1): <63 mA at 24 V DC
- Port class B (Power 2): <84 mA at 24 V DC

Idle current:

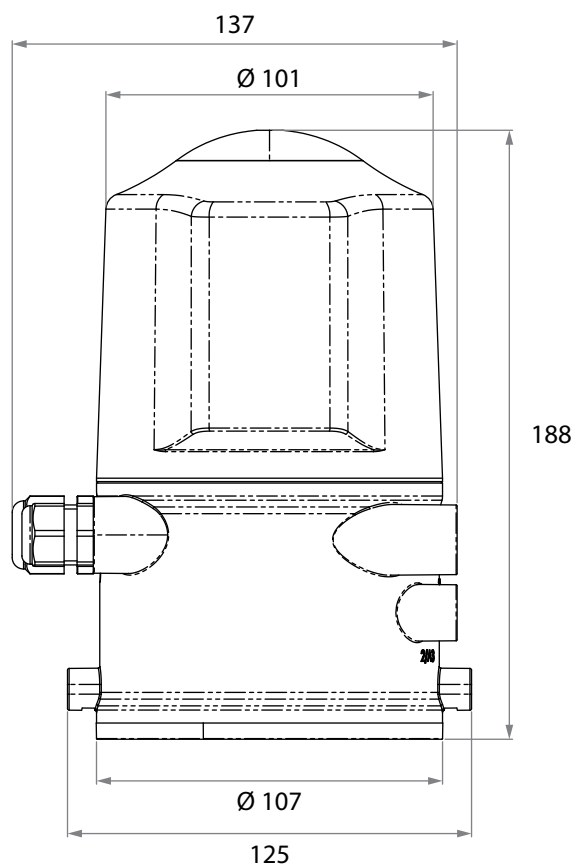
i.e. no solenoid valve active, no position feedback via LED display, no
external proximity switch:

- Port class A (Power 1): <42 mA at 24 V DC
- Port class B (Power 1): <42 mA at 24 V DC
- Port class B (Power 2): <9 mA at 24 V DC

Exploded view



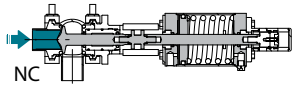
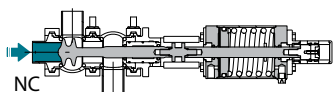
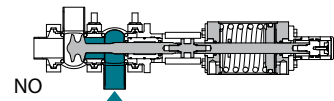
Dimensions



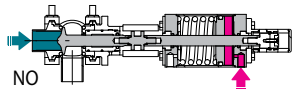
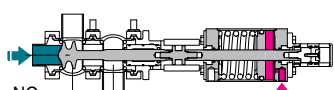
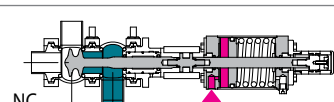
Maximum Media Working Pressure*

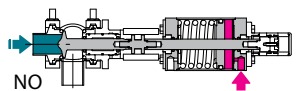
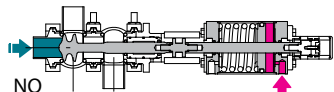
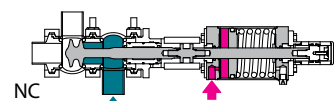
Spring Actuator

Media Air

Actuator & Valve body combinations	Actuator Mode	Air pressure	Valve Size						
			¾"	1"	1½"	2"	2 ½"	3"	4"
			PVE0	PVE0	PVE1	PVE1	PVE2	PVE2	PVE3
 NC	Spring	0 Bar	13.5	7.0	11.5	6.0	6.5	4.5	5.0
	Spring	0 PSI	196	102	167	87	94	65	73
 NC	Spring	0 Bar	12.5	8.0	11.5	6.0	6.5	4.5	5.0
	Spring	0 PSI	181	116	167	87	94	65	73
 NO	Spring	0 Bar	13.5	9.5	11.5	6.0	6.5	4.5	5.0
	Spring	0 PSI	195	138	167	87	94	65	73

Air Actuator

Actuator & Valve body combinations	Actuator Mode	Air pressure	Valve Size						
			¾"	1"	1½"	2"	2 ½"	3"	4"
			PVE0	PVE0	PVE1	PVE1	PVE2	PVE2	PVE3
 NO	Air	5 Bar	13	6.5	7.5	4.5	5.2	4.5	5.0
	Air	72.5 PSI	188.5	94	109	65	75	65	73
 NO	Air	5 Bar	11.5	7.0	7.5	4.5	5.2	4.5	5.0
	Air	72.5 PSI	167	102	109	65	75	65	73
 NC	Air	5 Bar	15	9.5	7.5	4.5	5.2	4.5	5.0
	Air	72.5 PSI	217.5	138	109	65	75	65	73

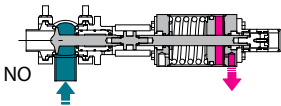
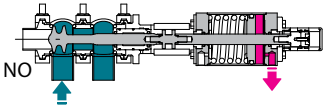
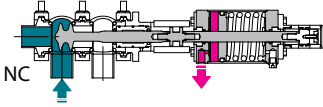
Actuator & Valve body combinations	Actuator Mode	Air pressure	Valve Size						
			¾"	1"	1½"	2"	2 ½"	3"	4"
			PVE0	PVE0	PVE1	PVE1	PVE2	PVE2	PVE3
 NO	Air	6 Bar	15	9.5	12	7	8.5	6.5	7.0
	Air	87 PSI	217.5	138	174	102	123	94	102
 NO	Air	6 Bar	12.5	10.0	12.0	7.0	8.5	6.5	7.0
	Air	87 PSI	181.5	145	174	102	123	94	102
 NC	Air	6 Bar	15	12.0	12.0	7.0	8.5	6.5	7.0
	Air	87 PSI	217.5	174	174	102	123	94	102

* Please see Installation and Service Manual

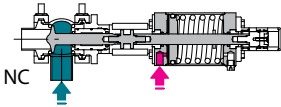
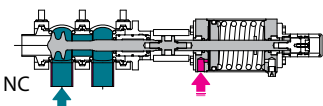
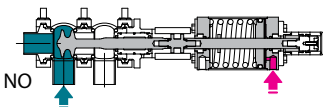
Warning: Depressurize before handling/maintenance

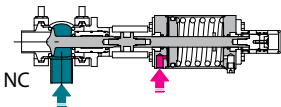
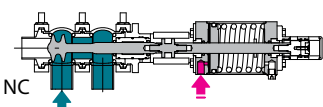
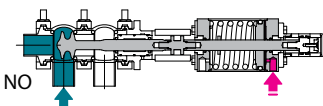
Relief Air Actuator

■ Media ■ Air

Actuator & Valve body combinations	Actuator Mode	Air pressure	Valve Size						
			¾"	1"	1½"	2"	2 ½"	3"	4"
			PVE0	PVE0	PVE1	PVE1	PVE2	PVE2	PVE3
	Spring	0 Bar	15	12.5	17.0	9.0	10.0	8.5	6.5
	Spring	0 PSI	217.5	181	247	131	145	123	94
	Spring	0 Bar	15	12.0	17.0	9.0	10.0	8.5	6.5
	Spring	0 PSI	217.5	174	247	131	145	123	94
	Spring	0 Bar	15	9.0	17.0	9.0	10.0	8.5	6.5
	Spring	0 PSI	217.5	131	247	131	145	123	94

Compress Air Actuator

Actuator & Valve body combinations	Actuator Mode	Air pressure	Valve Size						
			¾"	1"	1½"	2"	2 ½"	3"	4"
			PVE0	PVE0	PVE1	PVE1	PVE2	PVE2	PVE3
	Air	5 Bar	15	12.5	12.5	7.0	7.0	5.0	6.0
	Air	72.5 PSI	217.5	181	181	102	102	73	87
	Air	5 Bar	15	10.5	12.5	7.0	7.0	5.0	6.5
	Air	72.5 PSI	217.5	152	181	102	102	73	87
	Air	5 Bar	15	8.5	12.5	7.0	7.0	5.0	6.5
	Air	72.5 PSI	217.5	123	181	102	102	73	87

Actuator & Valve body combinations	Actuator Mode	Air pressure	Valve Size						
			¾"	1"	1½"	2"	2 ½"	3"	4"
			PVE0	PVE0	PVE1	PVE1	PVE2	PVE2	PVE3
	Air	6 Bar	15	17.0	18	10	10.0	7.0	8.5
	Air	87 PSI	217.5	247	254	145	145	102	123
	Air	6 Bar	15	15.5	17.5	10.0	10.0	7.0	8.5
	Air	87 PSI	217.5	225	254	145	145	102	123
	Air	6 Bar	15	17.5	17.5	10.0	10.0	7.0	8.5
	Air	87 PSI	217.5	254	145	94	102	102	123

* Please see Installation and Service Manual

Warning: Depressurize before handling/maintenance

NEUMO EHRENBERG GROUP

GLOBAL LOCATIONS



NEUMO GmbH+Co. KG (D)
Tel: +49 (0) 7043 36 0
Fax: +49 (0) 7043 36 179
E-Mail: info@neumo.de
www.neumo.de
GERMANY



VNE Corporation
Tel: +1 800 356 1111
+1 608 756 4930
Fax: +1 608 756 3643
E-Mail: stainless@vnecorp.com
www.vnestainless.com
U.S.A



EGMO Ltd.
Tel: +972 (0) 4 9855 176
+972 (0) 4 9855 111
Fax: +972 (0) 4 9855 175
E-Mail: salese@egmo.co.il
www.egmo.co.il
ISRAEL



NEUMO-EGMO Spain S.L
Tel: +34 977 524 914
Fax: +34 977 524 898
E-Mail: neumo-es@neumo-es.com
www.neumo-es.com
SPAIN



HPT Inc.
Tel: +845.452.1103
+800.284.4478
E-Mail: sales@hptinc.com
<http://www.hptinc.com/>
U.S.A



Herli AG
Tel: +41 (0) 31 750 12 11
Fax: +41 (0) 31 750 12 00
E-Mail: info@herli.net
www.herli.net
SWITZERLAND



Tel: +33 665 00 2201
E-Mail: france@neumo-es.com
FRANCE



NEUMO Italy S.r.l.
Tel: +39 0155821893
E-Mail: sales@neumo.it
ITALY



NEUMO Turkey
Tel: +90 (212) 875 01 41
Fax: +90 (212) 875 23 13
E-Mail: info@neumo.com.tr
www.neumo.com.tr
TURKEY



NEUMO Budapest Kft
Tel: +36 (1) 3174177
+36 (1) 3185982
Fax: +36 (1) 266 8765
E-Mail: neumo@neumo.hu
www.neumo.hu
HUNGARY



NEUMO Polska Sp. z.o.o
Tel: +48 (0) 46 833 4306
Fax: +48 (0) 46 832 5626
E-Mail: neumo@neumo.pl
POLAND



NEUMO - VARGUS (Shanghai)
Trading Co., Ltd
Tel: +86 (21) 51688300
Fax: +86 (21) 51688380
E - Mail: info@neumo.com.cn
CHINA



NEUMO UK Ltd.
Tel: +44 (0) 1952 583 999
Fax: +44 (0) 1952 583 958
E-Mail: stainless@neumo.co.uk
www.neumo.co.uk
UNITED KINGDOM



NEUMO LLC
Tel: +84 908475382
E-Mail: Minh.Vietnam@neumo.de
www.awh.eu
VIETNAM



EGMO Ireland
Tel: +353 (0)21 4975540
Cel: +353 (0)87 2330469
E-Mail: dosullivan@flowsolutions.ie
www.egmo.co.il
IRELAND



Damstahl a/s (Denmark)
Tel: +45 (0) 8794 4000
Fax: +45 (0) 8794 4150
E-Mail: ds@damstahl.com
www.damstahl.dk
DENMARK



AWH Armaturenwerke (D)
Hötensleben GmbH
Tel: +49 (0) 39405 92 0
Fax: +49 (0) 39405 92 111
E-Mail: info@awh.de
www.awh.de



Damstahl a/s Oslo (N)
Tel: +47 5615 1570
Fax: +47 5615 1571
E-Mail: dano@damstahl.com
www.damstahl.no
NORWAY



Damstahl a/b (Sweden)
Tel: +46 87 61 71 00
Fax: +46 87 61 14 05
www.damstahl.se
SWEDEN

Gebr. Rieger GmbH+Co. KG (D)
Tel: +49 (0) 7361 5702 0
Fax: +49 (0) 7361 5702 51
E-Mail: info@rr-rieger.de
www.rr-rieger.de
GERMANY



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