

HOVAP SERIES 8700 HYGIENIC MIXPROOF PROCESS VALVES VARIOFLOW®

A pneumatically operated, double seated, balanced mixproof process valve, EHEDG approved



GENERAL APPLICATION

Varioflow is an advanced design of process valve offering unequalled double sealing performance for increased process efficiency in the food, dairy, brewing, pharmaceutical, beverage and biochemical industries.

MATERIALS

Wetted parts: 1.4404/316L
Other parts: 1.4301
Seals: EPDM, NBR, FPM, Silicon

TECHNICAL DATA

Pressure (bar): 10
Temperature (°C): 140
higher temperature seals on request
Sizes (mm): 40-150
Air pressure (bar): 6

FEATURES

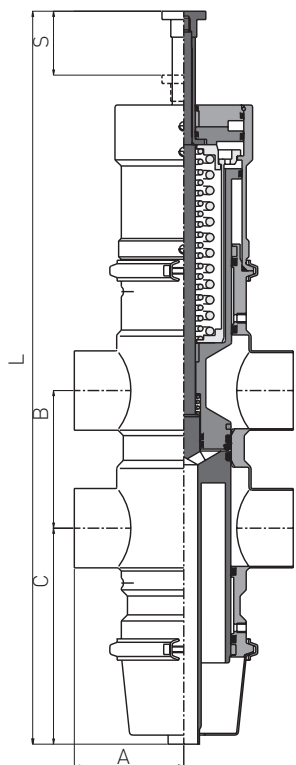
- Available in stop-, multi-way and tank bottom valves.
- One piece body design.
- Balanced piston-shaped valve design.
- Insensitive to pipeline stresses, waterhammer proof.
- No additional CIP connections needed to clean leakage outlet.
- Patented double seat design, 100 percent mixproof.
- Eliminates product loss during switching.
- 100% protection against bacteria build-up from outside.
- Optimal flow control, high K_v values.
- All wetted parts inside the valve body to prevent cross contamination.
- In-line servicing and cleaning. The valve internals may be lifted from the body for inspection and cleaning. No special tooling required.
- CE Machine Directive constructed.
- Suitable to build manifolds with continuous piping.
- Self draining, no residue.
- Integrated 3 position pneumatic actuator for independent seat lifting.
- Encapsulated spring package.
- Position indication available.
- Varioflow tank bottom valves convert batch systems to continual processes.
- Control head available.
- Fieldbus compatible.

INTEGRATED FLOW CONTROL MANIFOLDS

- Tailored around customer specifications.
- Compact design.
- Up to 150 valves per manifold.
- Easy maintenance.
- 100% pressure and function tested.
- Electronic control head available.

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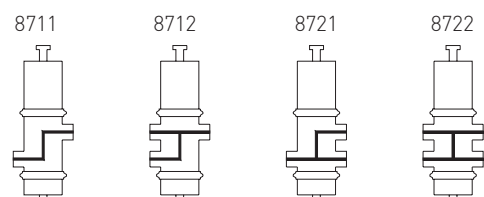
OVERALL DIMENSIONS

Inch	Pipe	A	B	C	L	S
1½	38.1 x 1.5	75	86.5	177.5	595.5	51.0
2	50.8 x 1.5	85	102.0	168.5	595.5	51.0
2½	63.5 x 1.5	95	117.5	216.5	703.0	61.5
3	76.1 x 1.5	105	132.0	208.0	703.0	61.5
4	101.6 x 2.0	120	162.0	235.0	797.0	71.0
DIN 11850						
40	40 x 1.5	75	85	180.0	595.5	51.0
50	54 x 2.0	85	101	170.5	595.5	51.0
65	70 x 2.0	95	114	222.5	703.0	61.5
80	85 x 2.0	105	138	206.0	703.0	61.5
100	104 x 2.0	120	161	237.0	797.0	71.0
125	129 x 2.0	170	210	296.0	1024.5	86.0
150	154 x 2.0	190	250	334.0	1137.5	98.0
ISO 1127						
32	42.4 x 2.0	75	86.5	179.0	595.5	51.0
40	48.3 x 2.0	85	102.0	167.0	595.5	51.0
50	60.3 x 2.0	95	117.5	214.5	703.0	61.5
65	76.1 x 2.0	105	132.0	207.5	703.0	61.5
80	88.9 x 2.0	105	132.0	214.0	703.0	61.5
100	114.3 x 2.0	170	210.0	288.5	1024.5	86.0
125	139.7 x 2.0	190	250.0	327.0	1137.5	98.0

K_v VALUES

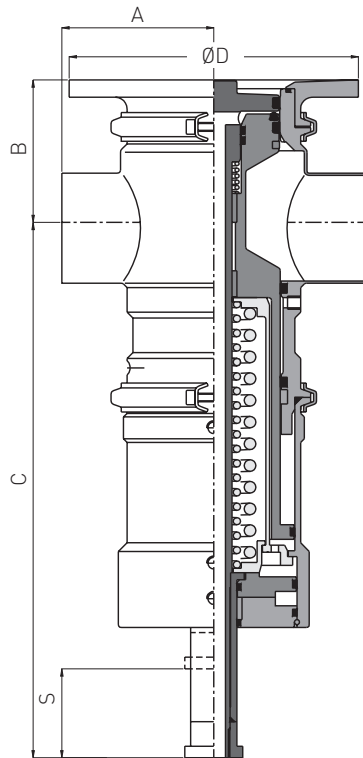
Inch			
1½	45	78	68
2	60	106	99
2½	93	170	141
3	110	255	184
4	190	520	380
DIN 11850			
40	45	78	68
50	60	106	99
65	93	170	141
80	110	255	184
100	190	520	380
125	315	755	540
150	450	1035	840
ISO 1127			
32	45	78	68
40	60	106	99
50	93	170	141
65	110	255	184
80	110	255	184
100	315	755	540
125	450	1035	840

VALVE CONFIGURATION



HOVAP SERIES 8700 HYGIENIC MIXPROOF PROCESS VALVES

VARIOFLOW® - TANK BOTTOM VALVE



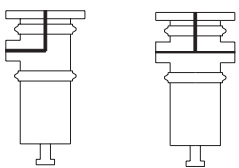
OVERALL DIMENSIONS

Inch	Pipe	A	B	C	D	S
1½	38.1 x 1.5	75	96.5	317.0	165	51.0
2	50.8 x 1.5	85	90.0	323.5	165	51.0
2½	63.5 x 1.5	95	108.5	360.0	200	61.5
3	76.1 x 1.5	105	102.0	366.5	200	61.5
4	101.6 x 2.0	120	108.5	409.5	220	71.0
DIN 11850						
40	40 x 1.5	75	95.5	318.0	165	51.0
50	54 x 2.0	85	89.0	324.5	165	51.0
65	70 x 2.0	95	105.5	363.0	200	61.5
80	85 x 2.0	105	98.0	370.5	200	61.5
100	104 x 2.0	120	107.5	410.5	220	71.0
125	129 x 2.0	170	158.0	515.5	320	86.0
150	154 x 2.0	190	170.0	554.5	320	98.0
ISO 1127						
32	42.4 x 2.0	75	95.0	318.5	165	51.0
40	48.3 x 2.0	85	92.0	321.5	165	51.0
50	60.3 x 2.0	95	110.5	358.0	200	61.5
65	76.1 x 2.0	105	102.5	366.0	200	61.5
80	88.9 x 2.0	105	96.0	372.5	200	61.5
100	114.3 x 2.0	170	165.0	508.5	320	86.0
125	139.7 x 2.0	190	177.0	547.5	320	98.0

K_v VALUES

Inch	↕	↔
1½	45	78
2	60	106
2½	95	175
3	115	270
4	195	490
DIN 11850		
40	45	78
50	60	106
65	95	175
80	115	270
100	195	490
125	320	750
150	460	1010
ISO 1127		
32	45	78
40	60	106
50	95	175
65	115	270
80	115	270
100	320	750
125	460	1010

VALVE CONFIGURATION



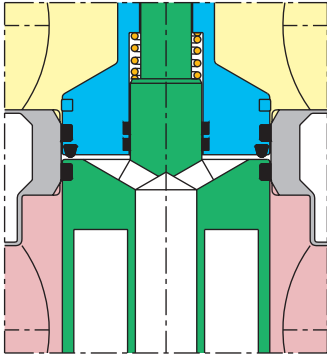
NOTE

Size B is the minimal size needed, and can be increased by 25 mm up to B max = 225 mm [275 mm for piping 114.3 x 2 and larger].

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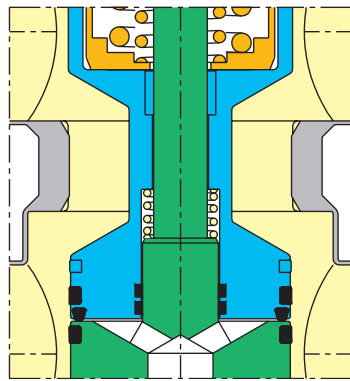
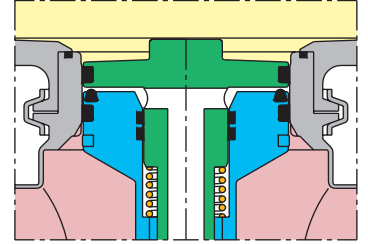
Closed position

The different liquids in the upper- and lower body are separated via a double seat design. The construction offers an unpressurized leakage outlet between the seats.

Closed position

The different liquids in the tank and the valve body are separated via a double seat design. The construction offers an unpressurized leakage outlet between the seats.

VARIOFLOW® TANK BOTTOM

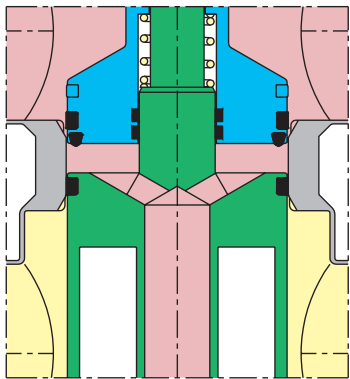
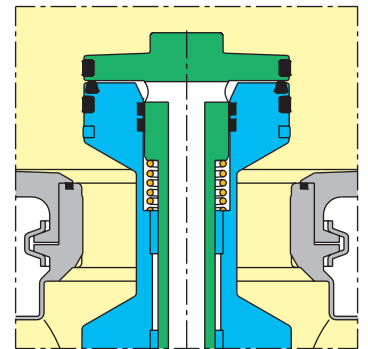


Open position

The leakage outlet is initially closed after which the body piston is lowered connecting the upper and lower valve body.

Open position

The leakage outlet is initially closed after which the body piston is raised to open the valve.

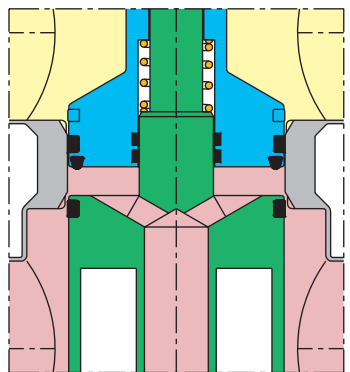
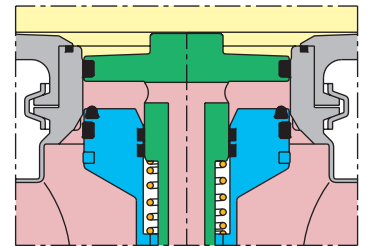


Cleaning top line

The upper stem is lifted slightly for cleaning the seat and leakage chamber in conjunction with cleaning the upper valve body.

Cleaning pipework

The lower valve stem is lowered slightly for cleaning the seal and leakage chamber in conjunction with cleaning the lower valve body.

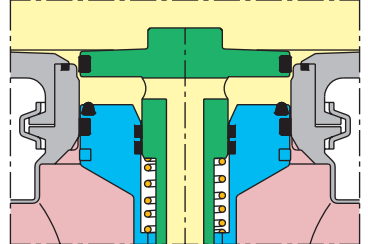


Cleaning bottom line

The lower valve stem is lowered slightly for cleaning the seal and leakage chamber in conjunction with cleaning the lower valve body.

Draining of vessel

The upper valve stem is lifted slightly for draining the tank and also cleaning the seat and leakage chamber at the same time.





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