

Hygienic solenoid non-return valve MRV

Functionality

Hygienic solenoid non-return valves prevent a return flow of media in processing plants. The valve housing, which is equipped with a magnet, constantly pulls the special flow element into the closed position and thus prevents a return flow. For opening, type MRV requires only a low-to-medium pressure. No soluble or moving parts can be found in this non-return valve, which decisively increases operating safety. The durable valve seat seal made of EPDM enables optimum seal integrity.

Use

- Valves are designed for use in the food, dairy and beverage, pharmaceutical, chemical, and cosmetics industries
- Suitable for both horizontal and vertical use
- Operating temperatures up to +140°C (+284°F)

Design Characteristics

- Modular design, consisting of the housing and internal assembly
- All product contact surfaces are made of AISI 316L stainless steel (materials certificate available upon request) with a surface finish of 0.8 µm Ra that meets all common hygienic standards
- Low magnetic force so that the valve opens at low-to-medium pressure

Housing

The basic body of the housing is designed with welded ends on both sides by default. Optionally, the connections can also be provided with a tri-clamp or screw connection.

Internal Assembly

The valve seat seal is available in EPDM, NBR, FPM (Viton), Silicone, and FEP. Optionally, a metallically sealing internal assembly is also available.



Dimensions of the pipe connections (acc. to DIN 11866)

DN	8	10	15	25	40	50	65	80	100
DIN 11866 A (DIN 11850)									
Dim. Ø x s (mm)	10x1	13x1.5	19x1.5	29x1.5	41x1.5	53x1.5	70x2	85x2	104x2
DIN 11866 B (ISO)									
Dim. Ø x s (mm)	13.5x1.6	17.2x1.6	21.3x1.6	33.7x2	48.3x2	60.3x2	76.1x2	88.9x2.3	114.3x2.3
	3/8"	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"
DIN 11866 C (OD)									
Dim. Ø x s (mm)	9.53x0.89	12.7x1.65	19.05x1.65	25.4x1.65	38.1x1.65	50.8x1.65	63.5x1.65	76.2x1.65	101.6x2.11
Dim. Ø x s (inch)	0.375x0.035	0.5x0.065	0.75x0.065	1.0x0.065	1.5x0.065	2.0x0.065	2.5x0.065	3.0x0.065	4.0x0.083

Dimensions of the solenoid non-return valve MRV

DN	8	10	15	25	40	50	65	80	100
D1	54	54	54	72	90	105	130	150	170
L1	60	60	60	80	100	110	130	140	150

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