



ECON® 3-Way ball valve Type: 7760ES Stainless steel Pneumatic operated Single acting, spring closing Internal thread (BSPP) 1000 PSI WOG



Mounted, pneumatically operated 3-way ball valve, consisting of: Econ® ball valve (type: 7760) and single-acting pneumatic Econ® actuator (type: 7901).

The pneumatically operated 3-way ball valve is configured according to the following basic principles: Pneumatic pilot pressure at 6 bar, medium is water, medium temperature is max. 100°C, ball valve is actuated at least a few times daily, actuator structure according to Eriks standard.

Characteristics

Type: 7760ES
Norm: EN (DIN)
Construction type: 3-way
Housing material: Stainless steel
Material quality: 1.4408
Connection: Internal thread (BSPP)
Actuator: Pneumatic operated
Operating principle: Single acting, spring closing
Top flange standard: ISO 5211 Direct Mount
Angular rotation: 90 °
Primary spindle seal material: PTFE
Secondary spindle seal material: FPM (FKM)
Body seal: PTFE
Actuator material: Aluminium

Application

- Compressed air, central heating systems, water, fuel and slightly corrosive systems up to a maximum of 68 bar.
- Recommended in: Food & Beverages

Technical Information

- Connection according to ISO 228-1 BSPP.
- Floating ball with L or T bore
- Pressure class 1000 PSI WOG
- In sizes 0.25 inches.
- The 3-way ball valve (floating ball) is intended to be used as a distribution valve. Pressure on the "closed" outlet may lead to leakages at the other outlets [medium].
- Actuator with multifunctional position indicator, suitable for mechanical limit switches or double proximity sensors.
- Air supply and upper flanged connection of drive in accordance with NAMUR VDI/VDE 3845.

Construction

- Design in accordance with MSS SP-110.
- Reduced bore.
- Equipped with anti-static design between ball, spindle and housing.

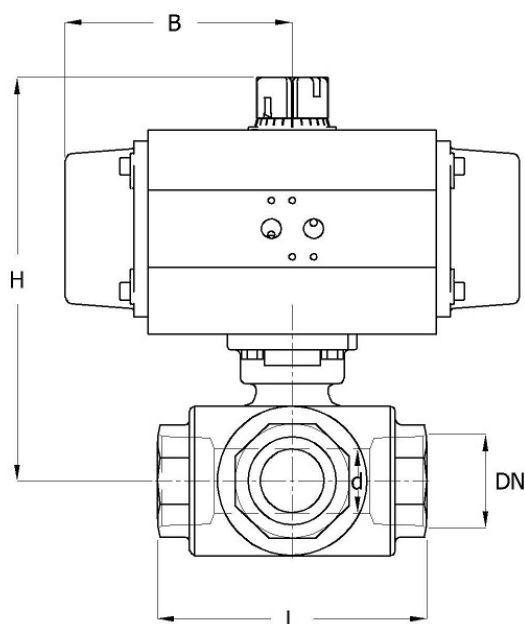
Approval

- TA Luft certified in accordance with VDI 2440, section 3.3.1.3.

Options

- With double acting pneumatic drive, type 7760ED
- End of service life signalling through switch box or double sensor, type 79650 to 79659
- Positioner, type 3303
- Namur control valve, type 33580
- Stainless-steel extended spindle for insulation (type 8007)
- Connection in NPT according to ASME B1.20.1.

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Size table:

DN	d mm	L mm	H mm	B mm	Weight kg
1/4" [8]	11	79	157	97.5	3.2
3/8" [10]	11	79	157	97.5	3.1
1/2" [15]	11	79	157	97.5	3.1
3/4" [20]	15	88	164	97.5	3.4
1" [25]	20	108	197	108.5	5.6
1.1/4" [32]	25	124	200	108.5	6.7
1.1/2" [40]	32	135	221	128	9
2" [50]	40	164	248	149.5	14.3

Pressure and temperature range						
Size	Temperature range	-29	38	100	150	200
1/4" - 2"	-29°C/+200°C	68	68	44	22	1
[°C]						
[bar]						
Pressure class 1000 PSI WOG						

Nominal inner diameter	Standard thread connection	Pressure rating	Type coding actuator	Brand actuator	Ball bore	Bore	Material ball	Seat material	Spindle material	Article
1/4" [8]	ISO 228-1	1000 PSI WOG	SR20	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12947884
1/4" [8]	ISO 228-1	1000 PSI WOG	SR20	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12947947
1/4" [8]	ISO 228-1	1000 PSI WOG	SR40	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533594
1/4" [8]	ISO 228-1	1000 PSI WOG	SR40	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533602
3/8" [10]	ISO 228-1	1000 PSI WOG	SR20	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12947940
3/8" [10]	ISO 228-1	1000 PSI WOG	SR40	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533603
3/8" [10]	ISO 228-1	1000 PSI WOG	SR40	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533595
1/2" [15]	ISO 228-1	1000 PSI WOG	SR20	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12945294
1/2" [15]	ISO 228-1	1000 PSI WOG	SR20	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12947949
1/2" [15]	ISO 228-1	1000 PSI WOG	SR40	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533604
1/2" [15]	ISO 228-1	1000 PSI WOG	SR40	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533596
3/4" [20]	ISO 228-1	1000 PSI WOG	SR40	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533597
3/4" [20]	ISO 228-1	1000 PSI WOG	SR40	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533605
1" [25]	ISO 228-1	1000 PSI WOG	SR40	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12947943
1" [25]	ISO 228-1	1000 PSI WOG	SR80	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533598
1" [25]	ISO 228-1	1000 PSI WOG	SR80	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533606
1.1/4" [32]	ISO 228-1	1000 PSI WOG	SR80	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533599
1.1/4" [32]	ISO 228-1	1000 PSI WOG	SR80	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533607
1.1/2" [40]	ISO 228-1	1000 PSI WOG	SR80	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12947945
1.1/2" [40]	ISO 228-1	1000 PSI WOG	SR80	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12947953
1.1/2" [40]	ISO 228-1	1000 PSI WOG	SR130	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533608
1.1/2" [40]	ISO 228-1	1000 PSI WOG	SR130	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533600

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Nominal inner diameter	Standard thread connection	Pressure rating	Type coding actuator	Brand actuator	Ball bore	Bore	Material ball	Seat material	Spindle material	Article
2" [50]	ISO 228-1	1000 PSI WOG	SR130	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12947954
2" [50]	ISO 228-1	1000 PSI WOG	SR130	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12947946
2" [50]	ISO 228-1	1000 PSI WOG	SR200	ECON	T-bore	Reduced bore	1.4408	RPTFE	1.4401	12533609
2" [50]	ISO 228-1	1000 PSI WOG	SR200	ECON	L-bore	Reduced bore	1.4408	RPTFE	1.4401	12533601

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