



ECON® Ball valve Type: 7644ES Stainless steel Pneumatic operated Single acting, spring closing Butt weld B16.25 S40 1000 PSI WOG



Mounted pneumatically operated 2-way ball valve consisting of: Three-piece Econ® ball valve [type: 7644] and single-acting pneumatic Econ® actuator [type: 7901].

The pneumatically operated 2-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: 7644ES

Norm: ASME

Construction type: 2-way

Housing construction: 3-part

Housing material: Stainless steel

Material quality: 1.4408

Connection: Butt weld

Standard welding connection: B16.25 S40

Actuator: Pneumatic operated

Operating principle: Single acting, spring closing

Top flange standard: ISO 5211 Direct Mount

Secondary spindle seal material: FPM (FKM)

Tertiary spindle seal material: PTFE

Body seal: PTFE

Actuator material: Aluminium

Minimum medium temperature (continuous): -29 °C

Maximum medium temperature (continuous): 205 °C

Application

- Compressed air, central heating systems, water, fuel and slightly corrosive systems up to a maximum of 68 bar.

Technical Information

- Connection according to ASME B16.25, Schedule 40 [butt-welding]
- Pressure class 1000 PSI WOG
- In sizes 0.25-4 inches.
- 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

- Three-piece housing construction.
- Design of the ball valve as per MSS SP-110
- Full bore.
- Equipped with anti-static design between ball, spindle and housing.

Approval

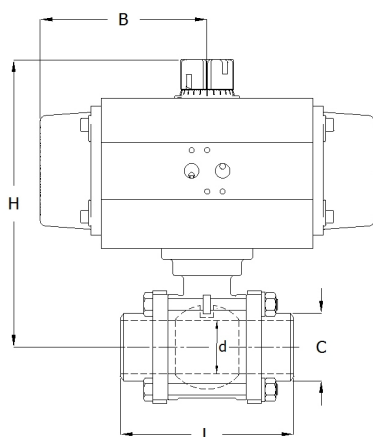
- TA Luft certified in accordance with VDI 2440, section 3.3.1.3.
- Declaration of conformity according to EC 1935/2004.

Options

- With double acting pneumatic drive, type 7644ED
- 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]

Size table:

DN	d mm	L mm	H mm	B mm	C mm	Weight kg
1/4" [8]	10.6	75	138	81.5	17.8	2.2
3/8" [10]	12.7	70	138	81.5	17.8	2.2
1/2" [15]	15	75	138	81.5	22	2.2
3/4" [20]	20	80	145	81.5	28.2	2.4
1" [25]	25	90	174	97.5	34	3.6
1.1/4" [32]	32	110	200	108.5	43.5	5.7
1.1/2" [40]	38	120	208	108.5	50.4	6.5
2.1/2" [65]	63.5	185.5	282	174.5	77.3	19
3" [80]	76	250	308	198.5	93	26.7
4" [100]	100	240	361	236.5	116	44.7



Nominal inner diameter	Pressure rating	Face to Face norm	Type coding actuator	Brand actuator	Bore	Material ball	Seat material	Spindle material	Primary spindle seal material	Article
1/4" [8]	1000 PSI WOG	Manufacturer standard	SR20	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533491
3/8" [10]	1000 PSI WOG	Manufacturer standard	SR20	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533492
1/2" [15]	1000 PSI WOG	Manufacturer standard	SR20	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533493
3/4" [20]	1000 PSI WOG	Manufacturer standard	SR20	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533494
1" [25]	1000 PSI WOG	Manufacturer standard	SR40	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533495
1.1/4" [32]	1000 PSI WOG	Manufacturer standard	SR80	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533496
1.1/2" [40]	1000 PSI WOG	Manufacturer standard	SR80	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533497
2.1/2" [65]	1000 PSI WOG	Manufacturer standard	SR300	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533499
3" [80]	1000 PSI WOG	Manufacturer standard	SR500	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533500
4" [100]	1000 PSI WOG	Manufacturer standard	SR850	ECON	Full bore	1.4408	PTFE	1.4401	PTFE	12533501

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