



ADCAPURE Ball valve Series: M3HP Type: 8845 Stainless steel Tri-clamp ASME-BPE PN63/100

Three-piece M3HP ball valves are "high-purity" shut-off valves that have been polished and cleaned inside and outside for use with ultra-pure and pure steam, condensate and other clean gases and liquids used in very clean and aseptic processes.

The ball valves have a "real bore" design with a floating ball, meaning that the passage for the ball is the same size as the inside diameter of the connection without clogging or narrowing.

Characteristics

Series: M3HP

Type: 8845

Norm: ASME

Construction type: 2-way

Housing construction: 3-part

Housing material: Stainless steel

Material quality: SS316L

Internal roughness value: Ra 0.51 µm

External roughness value: Ra 0.76 µm

Connection: Tri-clamp

Standard connection: ASME-BPE

Top flange standard: ISO 5211

Seat material: TFM 1600

Spindle material: 1.4404

Primary spindle seal material: TFM 1600

Secondary spindle seal material: FPM (FKM)

Tertiary spindle seal material: TFM 1600

Body seal: PTFE

Material connection piece: 1.4404

Actuator material: 1.4301

Minimum medium temperature (continuous): -29 °C

Maximum medium temperature (continuous): 220 °C

Application

- For pharmaceuticals, biotechnology, semiconductor, cosmetics, fine chemicals, food and beverage industry.
- The ball valves can only be used as an open/closed valve.
- Recommended in: Pharma

Technical Information

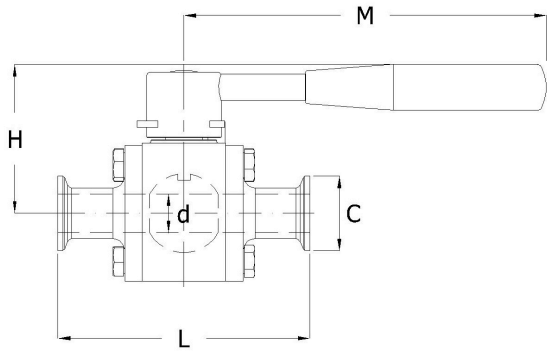
- Three-terminal connection according to ASME BPE.
- Concept with floating ball.
- Made entirely of solid bar materials.
- The 3-piece construction can be retained without having to be removed from the piping.
- Bidirectional.
- Upper flange according to ISO-5211 [only in sizes $\geq 3/4"$].
- Fitted with round handle.
- Pressure class PN100 for the 1/2" and 3/4" versions and PN63 for the 1" to 2" versions.
- Internal wet parts Ra ≤ 0.51 microns, external Ra ≤ 0.76 microns and ultrasonic cleaning.
- Assemble and pack in a certified cleanroom in accordance with ISO 14644-1.

Construction

- Three-piece housing construction.
- Real bore planning.
- Equipped with antistatic device between ball and housing.
- Anti-blow out spindle.

Options

- Available with either a pneumatic or electric actuator.
- Position feedback for automated ball valves.
- Other sealing materials.
- 1/2" with adapter for ISO5211 mounting.
- Degrease before using oxygen.
- Cavity filler.
- With extension spindle for insulation, manual or with actuator and optionally with leak detection connection.
- Connections according to DIN 11850 butt weld, butt weld according to ASME BPE and three terminals according to DIN 32676.



Size table:

DN	d	L	H	M	C	Weight
	mm	mm	mm	mm	mm	kg
1/2" [15]	9.4	88.9	49	130	25	0.9
3/4" [20]	15.8	101.6	54	130	25	1.4
1" [25]	22.1	114.3	68	165	50.5	2.3
1.1/2" [40]	34.8	139.7	86	200	50.5	5.3
2" [50]	47.5	165.1	97	200	64	8.5

Size	Pressure and temperature range with TFM1600 seats							[°C]
	-29	0	50	100	150	200	220	
1/2" - 3/4"	100	100	100	79	44	10	0	[bar]
1" - 2"	63	63	63	49	30	10	0	[bar]

Nominal inner diameter	External tube diameter of connection	Wall thickness, connection	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Bore	With locking device	Material ball	Article
	mm	mm								
1/2" [15]	25	1.65	PN100	Manufacturer standard	Handle	F03	True bore	No	1.4404	14523768
3/4" [20]	25	1.65	PN100	Manufacturer standard	Handle	F04	True bore	No	1.4404	14523769
1" [25]	50.5	1.65	PN100	Manufacturer standard	Handle	F04	True bore	No	1.4404	14523770
1.1/2" [40]	50.5	1.65	PN63	Manufacturer standard	Handle	F05	True bore	No	1.4404	14523771
2" [50]	64	1.65	PN63	Manufacturer standard	Handle	F05	True bore	No	1.4404	14523772

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