



## ADCAPURE Ball valve Series: M3H Type: 8842 Stainless steel Butt welded loose end ASME-BPE PN16 to PN100

Three-piece M3H ball valves are shut-off valves for use with clean steam, condensate and other gases and liquids used in very pure 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:** M3H

**Type:** 8842

**Norm:** ASME

**Construction type:** 2-way

**Housing construction:** 3-part

**Housing material:** Stainless steel

**Material quality:** 1.4409

**Internal roughness value:** Ra 0.51 µm

**Connection:** Butt welded loose end

**Standard welding connection:** ASME-BPE

**Top flange standard:** ISO 5211

**Material ball:** 1.4404

**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

**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

- Butt weld connection according to ASME BPE, extended for orbital welding with rotatable weld ends [360° rotation after mounting].
- Concept with floating ball.
- Housings and ends in accordance with A351 CF3M with a ferrite content of less than 2% and a sulphur content of 0.005% to 0.017%.
- The 3-piece construction can be retained without having to be removed from the piping.
- Bidirectional.
- Upper flange in accordance with ISO5211.
- Fitted with flat handle.
- Pressure class PN100 for 3/8" to 3/4" and PN63 for 1" to 2" and PN40 for 2.1/2" to 4" and PN16 for 6".
- Internal wet parts Ra 0.51 ≤ and ultrasonic cleaning.
- Assemble and pack in a certified cleanroom in accordance with ISO 14644-1.

### Construction

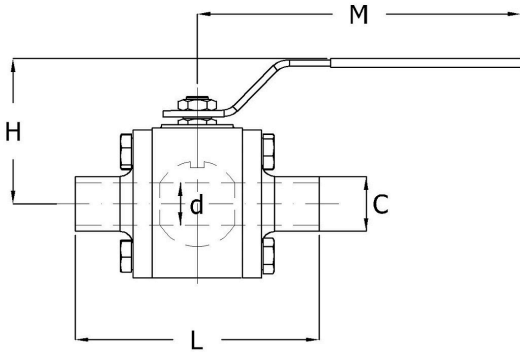
- Three-piece housing construction.
- Real bore planning.
- Equipped with antistatic device between ball and housing.
- Anti-blow out spindle.

### Options

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

Size table:

DN	d	L	H	M	C	Weight
	mm	mm	mm	mm	mm	kg
1/2" [15]	9.4	101.6	65	150	12.7	1.49
3/4" [20]	15.8	114.3	69	150	19.05	1.94
1" [25]	22.1	127	87	175	25.4	2.62
1.1/2" [40]	34.8	152.4	114	207	38.1	5.5
2" [50]	47.5	177.8	124	232	50.8	7
2.1/2" [65]	60.2	203	169	400	63.5	13.3
3" [80]	72.9	228	180	400	76.2	18.6
4" [100]	97.4	267	198	400	101.6	29.6



Pressure and temperature range with TFM1600 seats

Size	-29	0	50	100	150	200	220	[°C]
3/8" - 3/4"	100	100	100	79	44	10	0	[bar]
1" - 2"	63	63	63	49	30	10	0	[bar]
2.1/2" - 4"	40	40	40	33	22	10	0	[bar]
6"	16	16	16	14	12	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	Body seal	Article
	mm	mm								
1/2" [15]	12.7	1.65	PN100	Manufacturer standard	Handle	F03	True bore	No	TFM 1600	14523761
3/4" [20]	19.05	1.65	PN100	Manufacturer standard	Handle	F04	True bore	No	TFM 1600	14523762
1" [25]	25.4	1.65	PN100	Manufacturer standard	Handle	F04	True bore	No	TFM 1600	14523763
1.1/2" [40]	38.1	1.65	PN63	Manufacturer standard	Handle	F05	True bore	No	TFM 1600	14523765
2" [50]	50.8	1.65	PN63	Manufacturer standard	Handle	F05	True bore	No	TFM 1600	14523766
2.1/2" [65]	63.5	1.65	PN40	Manufacturer standard	Handle	F07	True bore	No	PTFE	14523767
3" [80]	76.2	1.65	PN40	Manufacturer standard	Handle	F07	True bore	No	PTFE	14523783
4" [100]	101.06	1.65	PN40	Manufacturer standard	Handle	F10	True bore	No	PTFE	14523784

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