# **Automated Globe Valves**

# **BOA-H Mat P**

PN 16/25 DN 20-150

# **Type Series Booklet**





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Type Series Booklet BOA-H Mat P
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# **Balancing and Measurement Valves**

#### **Automated Shut-off Valves**

## **BOA-H Mat P**



#### Main applications

- Hot-water heating systems
- Air-conditioning systems
- Boiler feed applications
- Boiler recirculation
- Chemical industry
- Process engineering
- Heat recovery systems
- Sugar industry

#### Fluids handled

- High-temperature hot water
- Saturated steam
- Thermal oil
- Liquids not chemically or mechanically aggressive to the valve materials.

### Operating data

Operating properties

Value
PN 16/25
DN 20-150
25 bar
350 °C

Selection as per pressure/temperature ratings (⇒ Page 4)

## Design details Design

- Straight-way pattern with horizontal seat
- Throttling plug up to DN 100
- On/off disc for DN 125 and above
- Spring-loaded PTFE V-packing up to 250 °C
- Graphite gland packing up to 350 °C
- Flanges to DIN EN 1092-2 Type 21
- · Leakage rate A
- Exterior coating: blue RAL 5002
- The valves satisfy the safety requirements of Annex I of the European Pressure Equipment Directive 97/23/EC (PED) for fluids in Groups 1 and 2.

Actuators (technical data refers to basic configuration):

Spring-to-close or air-to-close design (on request)
Max. control pressure: 6 bar
Mechanical or inductive limit switches

#### **Variants**

Globe valve:

- Valve disc with PTFE gasket (up to 200 °C)
- Other flange designs
- High-temperature resistant paint (grey aluminium)
- Certification to customer specification

#### **Body materials**

Overview of available materials

Material	Material number	Temperature limit		
EN-GJS-400-18-LT	JS 1025	Up to 350 °C		

#### **Product benefits**

- Internal parts made of high-grade stainless steel for long service life and high chemical resistance.
- Risk of leakage minimised by fully confined bonnet gasket.
- Available with two types of stem seal: maintenance-free PTFE V-packing (< 250 °C) or adjustable graphite gland packing (350 °C).
- Pneumatic actuator with 3/2 directional control valve and either inductive or mechanical limit switches. Actuating forces of up to 11 kN with spring-to-close design or up to 26 kN with air-to-close design.

#### **Related documents**

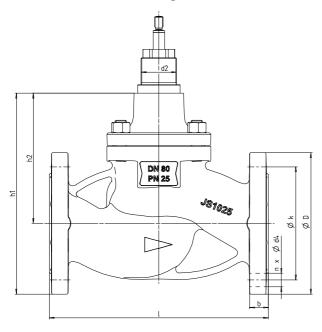
Other applicable documentation

Document	Reference No.
Flow characteristics	7135.4
Operating manual	7525.81



#### **Dimensions**

# Dimensions of BOA-H Mat P globe valve



#### Dimensions in mm

PN	DN	I	h <sub>1</sub>	h <sub>2</sub>	d <sub>2</sub>	D	b	k	n	d <sub>6</sub>	[kg]
16	20	150	153,5	101,0	M39	105	16	75	4	14	6,3
	25	160	164,5	107,0	M39	115	16	85	4	14	6,9
	32	180	216,0	146,0	M39	140	18	100	4	19	10,4
	40	200	226,0	151,0	M39	150	18	110	4	19	11,6
	50	230	227,0	144,5	M39	165	20	125	4	19	13,8
	65	290	272,5	180,0	M50	185	20	145	4	19	22,3
	80	310	284,0	184,0	M50	200	22	160	8	19	28,4
	100	350	328,0	218,0	M50	220	24	180	8	19	38,4
	125	400	384,5	259,5	M50	250	26	210	8	19	60,5
	150	480	403,5	261,0	M50	285	26	240	8	23	83,0
25	20	150	153,5	101,0	M39	105	16	75	4	14	6,3
	25	160	164,5	107,0	M39	115	16	85	4	14	6,9
	32	180	216,0	146,0	M39	140	18	100	4	19	10,4
	40	200	226,0	151,0	M39	150	18	110	4	19	11,6
	50	230	227,0	144,5	M39	165	20	125	4	19	13,8
	65	290	272,5	180,0	M50	185	20	145	8	19	22,3
	80	310	284,0	184,0	M50	200	22	160	8	19	32,4
	100	350	335,5	218,0	M50	235	24	190	8	23	42,4
	125	400	394,5	259,5	M50	270	26	220	8	28	67,5
	150	480	411,0	261,0	M50	300	26	250	8	28	91,5

# **Mating dimensions - Standards**

Face-to-face EN 558-1/1, ISO 5752/1

lengths:

Flanges: DIN EN 1092-2, flange type 21-2 Flange facing: DIN EN 1092-2, type B



#### **Further installation instructions**

Disconnect pneumatic actuators from the compressed air supply and any add-on components from the power supply.

Refer to the safety information given in the operating manual when servicing the actuator!

The safety instructions and requirements for the protection of persons and equipment must always be complied with.

The permissible temperatures must be complied with .

Service work on the actuator:

Switch off the pump and disconnect the power supply. Close the pipeline's shut-off valve, release the pressure in the piping and let the system cool down.

