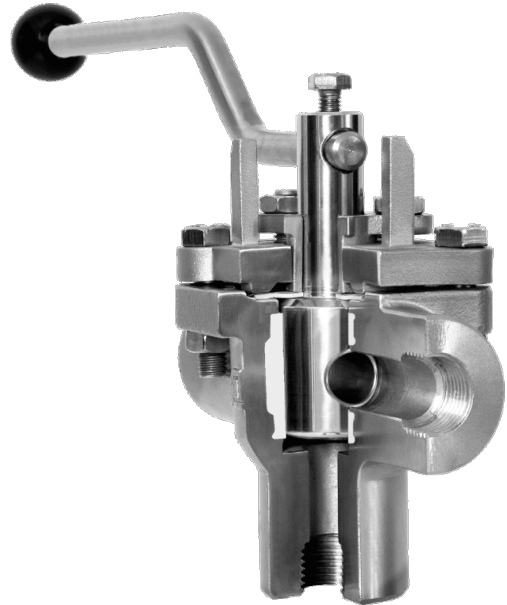


BMH

Special valve for safe flushing of pipe systems

DIN-EN: DN 25 / PN 10

ASME: NPS 1" / class 150



Design Features

Design Characteristics

- free of cavities
- maintenance free – self lubricating
- mounting-flange for actuators acc. to DIN ISO 5211
- easy accessible adjustment of the plug, even with mounted actuator
- vacuum tight
- fugitive emission resp. clean air act certified (TA-Luft 2002 approval)
- Directive 2014/68/EU
- Firesafe design API 607 ISO 10497
- FDA conformity

Description

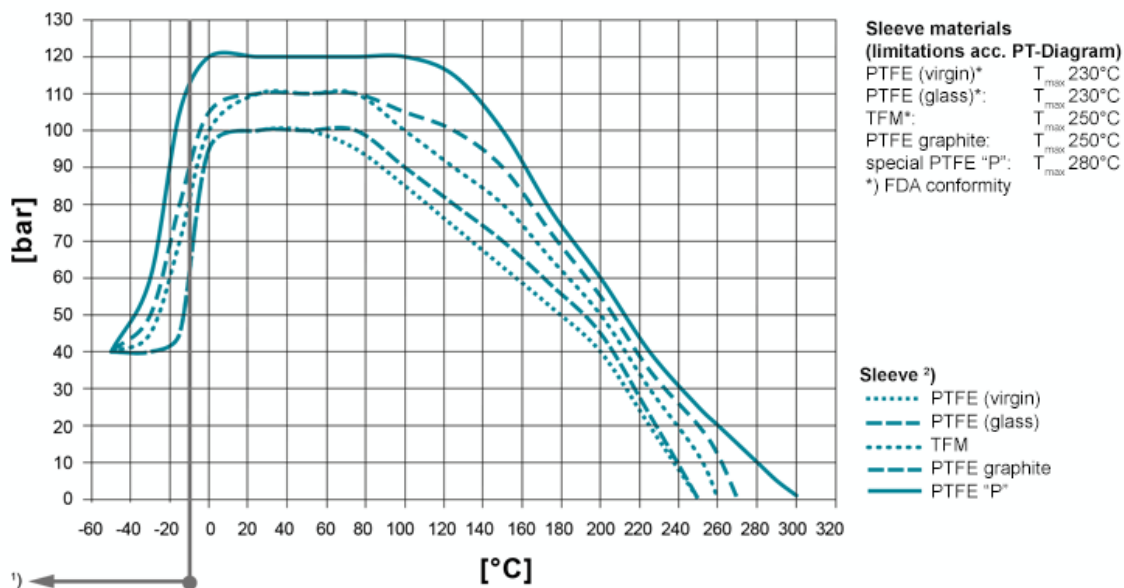
Pipe Systems in chemical and petrochemical plants are usually purged with flushing fluids such as water, steam, air or nitrogen. After the flushing process a safe depressurizing is necessary. For this purpose AZ developed the type "BMH" with features easy and simple in operation:

The special plug form, with positive overlap, allows during the quarter turn to close the flushing fluid supply and

then to depressurize the flushing hose automatically. This ensures maximum safety for operators and environment. The valve is conform to TA-Luft.

PT-Diagram

General Pressure-Temperature-Diagram



Operating temperatures $< -30^{\circ}\text{C}$ and $> 220^{\circ}\text{C}$ have to be checked and approved by AZ according to the operating conditions.

Besides the P/T value of the sleeve the limitations of the valve bodies also have to be considered. Please refer to the EN 12516-1 resp. ASME B16.34 in order to choose a proper pressure rating (PN/class). The shown values refer to austenitic stainless steel 1.4408 (A351 Gr. CF8M).

- 1) For operating temperatures below -10°C low temperature / austenitic steels are required.
- 2) Sleeve: There are different sleeve materials / compounds available.

Materials

Standard body materials

- Carbon Steel 1.0619, ASTM A216 WCB
- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8
- Unalloyed stainless steel casting (low Temp.) 1.1138, LCC/LCB/A352

Standard plug materials

- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8

Special materials

- Alloy
- Monel
- Nickel
- Zirconium
- Titan
- Tantal
- other materials on request

Sealing Systems

Standard sealing for all major applications;
Tmax 230°C

Type STD

[read more \[...\]](#)

Firesafe sealing (API 607) with graphite
packing for additional
stem sealing; Tmax 230°C

Type FS

[read more \[...\]](#)

Chemical sealing to prevent fugitive emission
of aggressive and toxic media
with PTFE packing for additional stem sealing;
T_{max} 230°C

Type CA

[read more \[...\]](#)

Firesafe safety sealing (API 607) for fluctuating
temperatures
with 3x graphite packing (adjustable) for additional
stem sealing; Tmax 280°C

Type FSN

[read more \[...\]](#)

Firesafe safety sealing (API 607) for fluctuating
temperatures
with 3x graphite packing (live loaded disc springs) for
additional
stem sealing; Tmax 280°C

Type FSN-SL

[read more \[...\]](#)

Chemical safety sealing for fluctuating temperatures
with 3x PTFE packing (adjustment) for additional stem
sealing;
Tmax 230°C

Type CASN

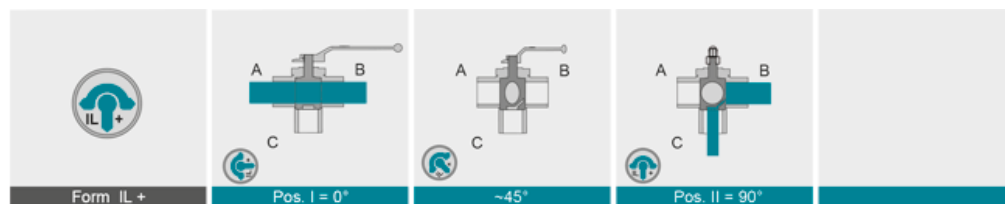
[read more \[...\]](#)

Chemical safety sealing for fluctuation temperatures
with 3x PTFE packing (live loaded disc springs) for additional
stem sealing; Tmax 230°C

Type CASN-SL

[read more \[...\]](#)

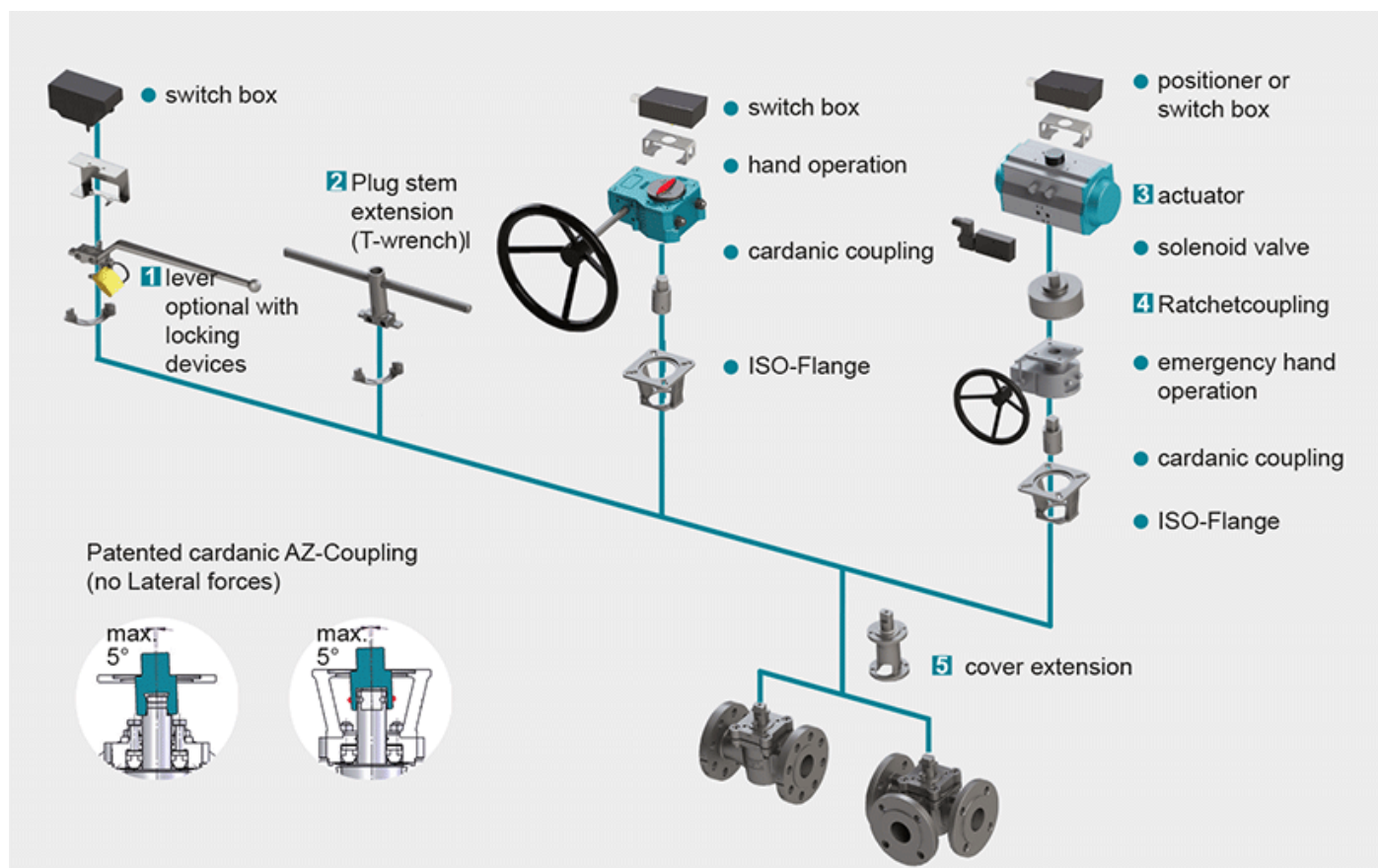
Port Forms



Dimensions

on request

Actuation



1 Locking Devices

Pilot valve combinations, pad lock eyelets, linear key conception, indexing plunger arrestor.
read more [...]

2 Plug stem extension

Solid construction in stainless steel with T-wrench, Standard extension 100 mm or 150 mm, non standard lengths are available on request

[read more \[...\]](#)

3 Actuators

Actuators for mounting-flange acc. to DIN ISO 5211

[read more \[...\]](#)

NEW: Pneumatic actuator AIR GEAR for plug valves with high torque ≥ 150.000 Nm

[read more \[...\]](#)

4 Ratched coupling

To use on multiport valves with standard 90° actuator for bigger switchpositions than 90°

[read more \[...\]](#)

5 Cover extension

Solid construction in stainless steel, Standard extension 100 mm or 150 mm high, non standard lengths are available on request . Hexagonal bolts on adjustment ring freely accessible. Note: Don't use with sealing FSN/FSN-SL and CASN/CASN-SL

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