

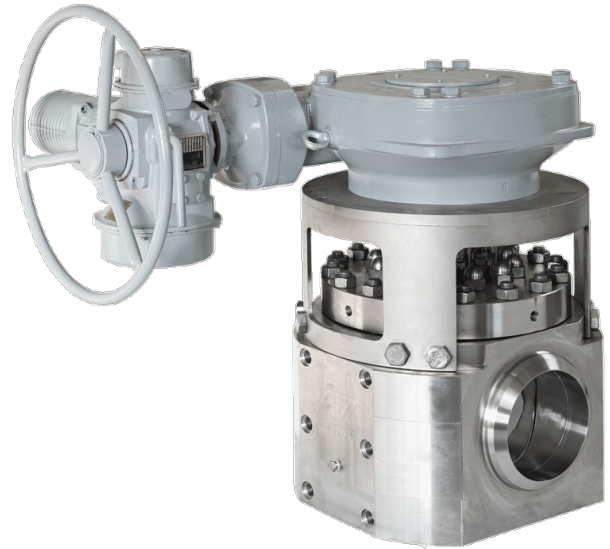
NUKLEAR

High-pressure plug valve for nuclear facilities

DIN: 15 - 250 / PN 10 - 160

ASME: NPS ½" - 8" / class 150 - 900

PT range: $-30 < T < 230/280^{\circ}\text{C}$, vacuum 10-8 mbar



Design Features

Design Characteristics

- high-pressure design
- replacement of sleeve of installed valve
- free of cavities
- maintenance free - self lubricating
- adjustable safety spindle packing
- firesafe - API 607 / ISO 10497 (outside)
- nuclear approval
- forged steel
- complete chain of documentation for all parts

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

- forged steel 1.4301, ASTM A240/A182

Standard plug materials

- forged steel 1.4301, ASTM A240/A182 (304)
- forged steel 1.4541, ASTM A240/A182 (321)

other materials on request

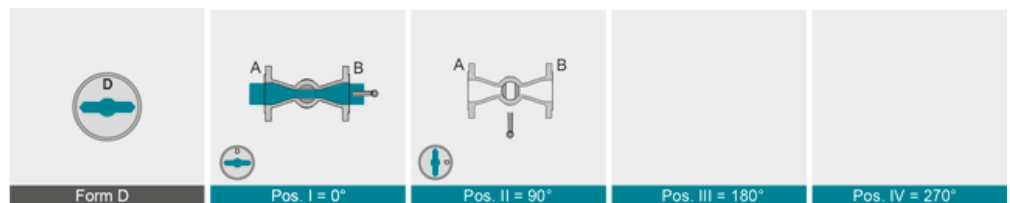
Schaftabdichtung

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

Type FSN

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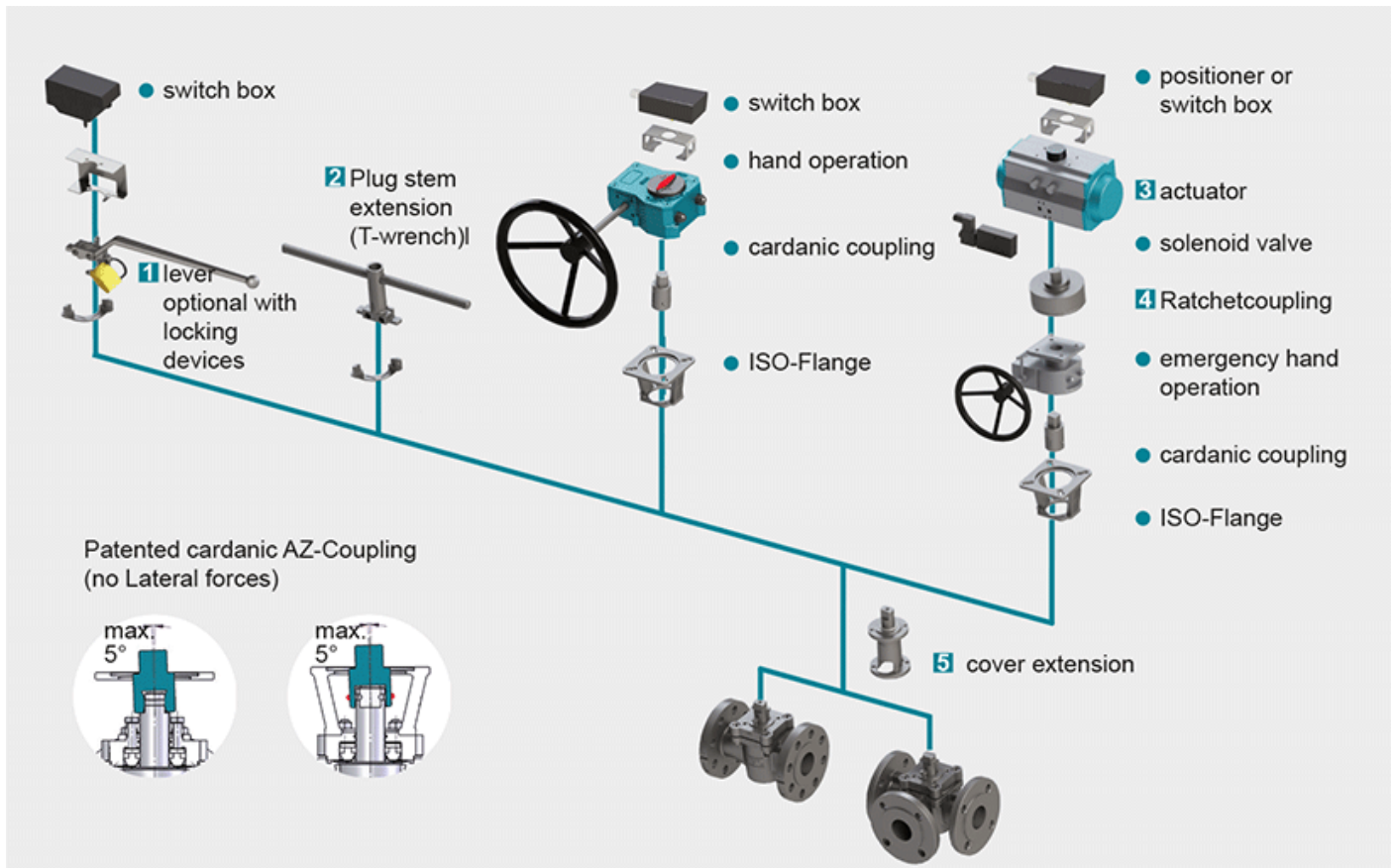
Port Forms



Dimensions

on request

Actuation



1 Locking Devices

Pilot valve combinations, pad lock eyelets, linear key conception, indexing plunger arrestor.
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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
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3 Actuators

Actuators for mounting-flange acc. to DIN ISO 5211
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NEW: Pneumatic actuator AIR GEAR for plug valves with high torque =150.000 Nm
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4 Ratched coupling

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