

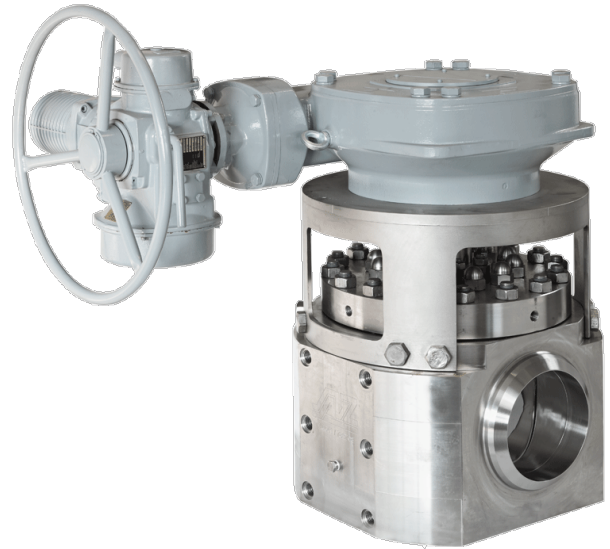
# NUKLEAR

## 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



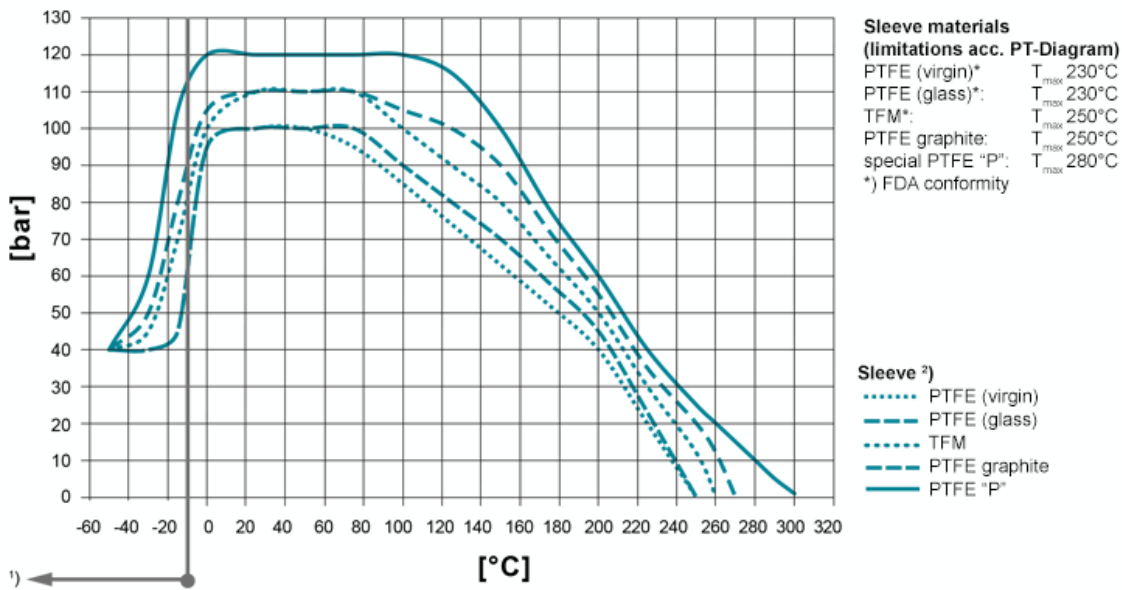
## Design Features

### 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°C and > 220 °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

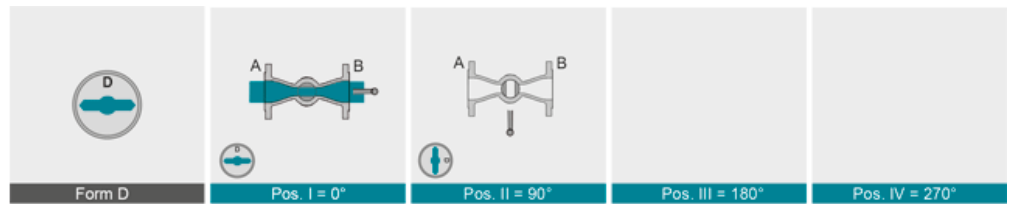
## Schaftabdichtung

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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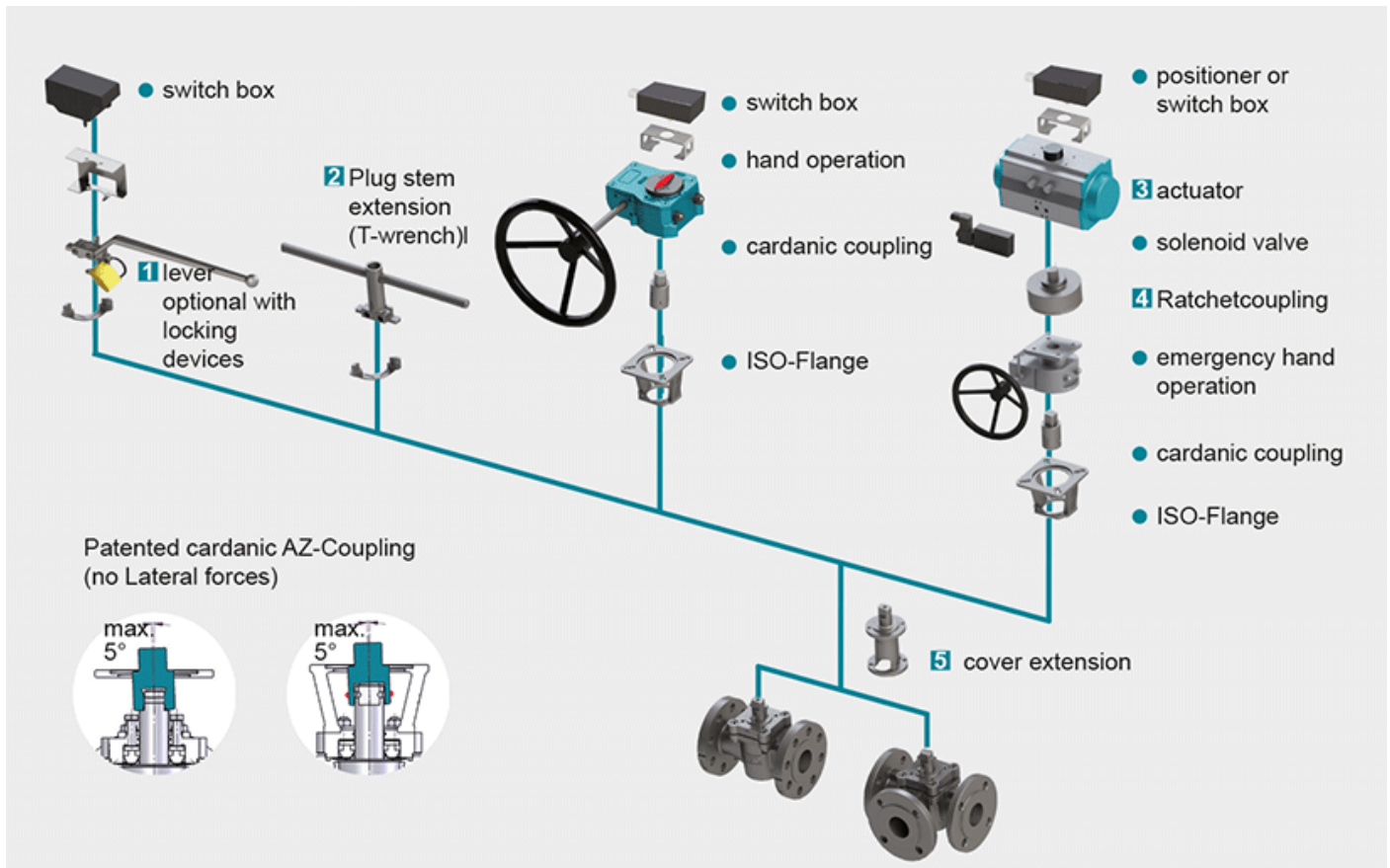
## Port Forms



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

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