# **NUKLEAR**

# High-pressure plug valve for nuclear facilities

DIN: 15 - 250 / PN 10 - 160

ASME: NPS 1/2" - 8" / class 150 - 900

PT range: -30 < T < 230/280°C, vacuum 10-8 mbar



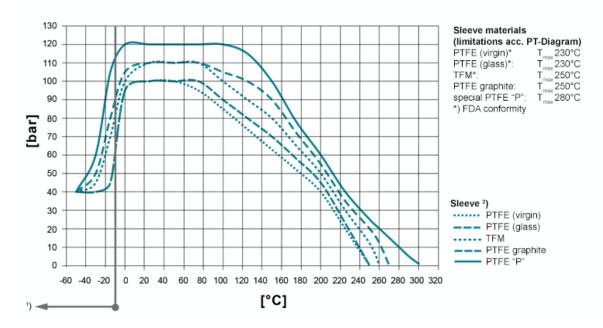
# **Design Features**

# **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

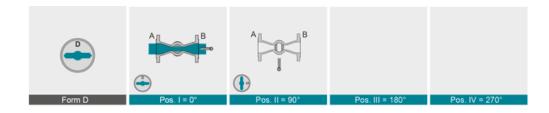
# Schaftabdichtung

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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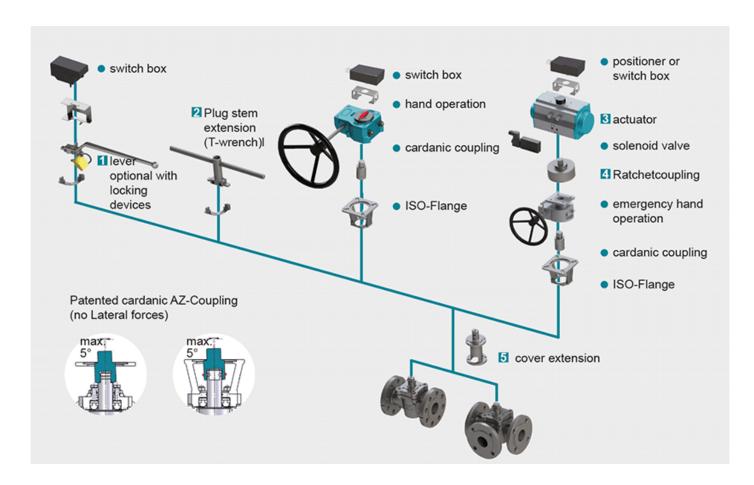
# **Port Forms**



# **Dimensions**

on request

# **Actuation**



## 1 Locking Devices

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