# SW / BW

# Plug valves with weld ends

DIN-EN: DN 10 - 500 / PN 10 - 100 ASME: NPS 3/8" - 24" / class 150 - 600

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



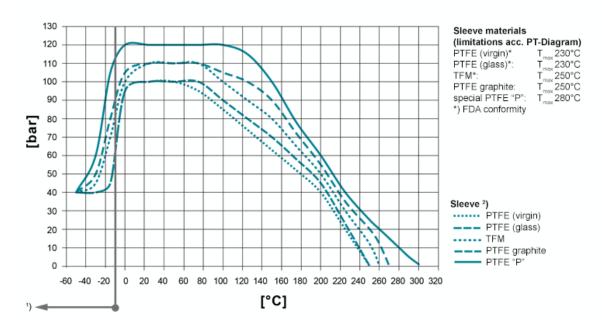
# **Design Features**

## **Design Characteristics**

- available with butt weld and socket weld ends
- 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 emmission resp. clean air act certified (TA Luft 2002 approval)
- Directive 2014/68/EU
- fire safe design API 607 / ISO 10497
- FDA conformity

## **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

- 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;  $T_{\text{max}}\ 230^{\circ}\text{C}$ 

## **Type CA**

read more [...]

Firesafe safety sealing (API 607) for fluctuating temperatures with 3x graphite packing (adjustable) for additional

## **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

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**

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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 [...]

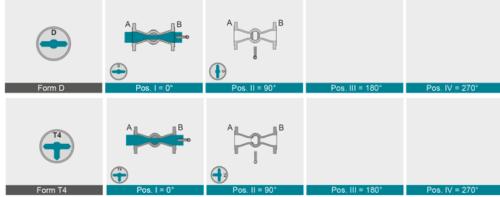
#### **Port Forms**



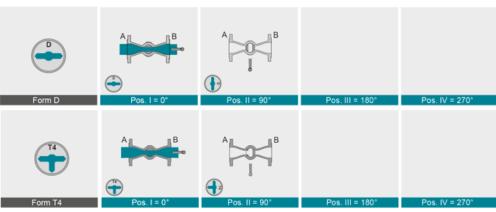
AZ plug valves are fitted with cast, rust proof position indicators.

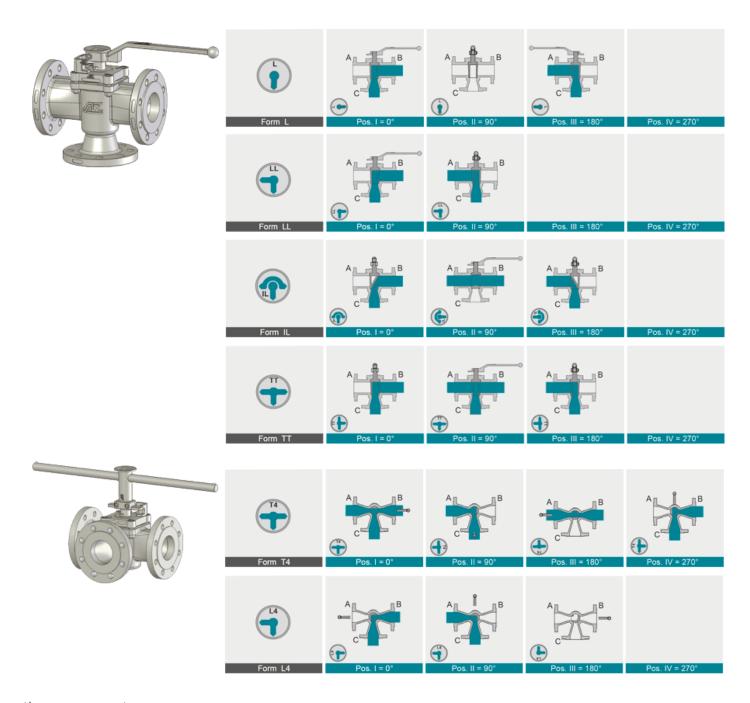
The position indicator is securely welded to the lever to prevent it from working loose.







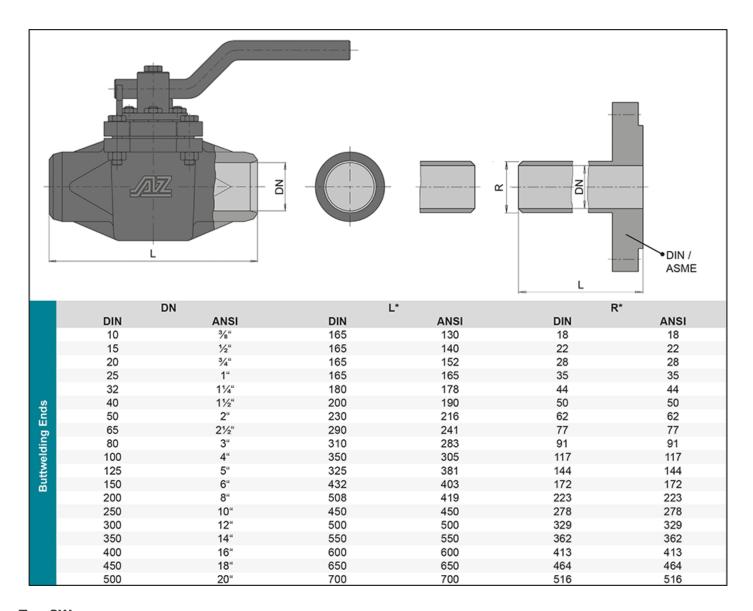




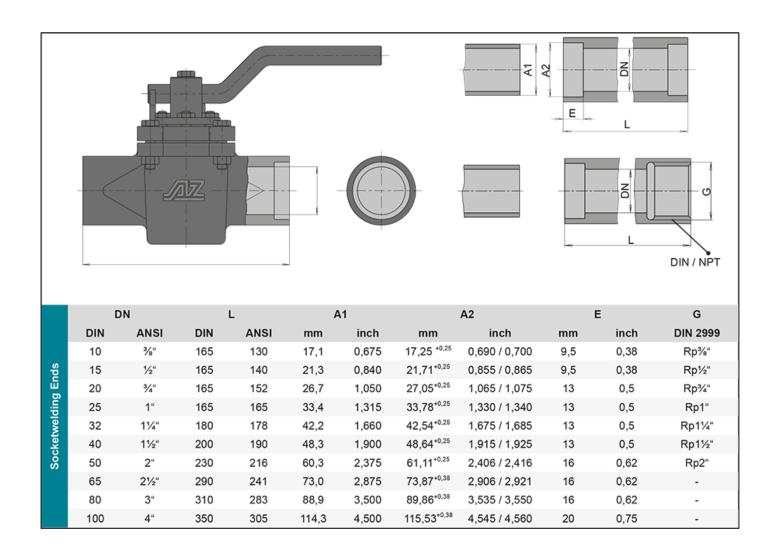
others on request

# **Technische Daten**

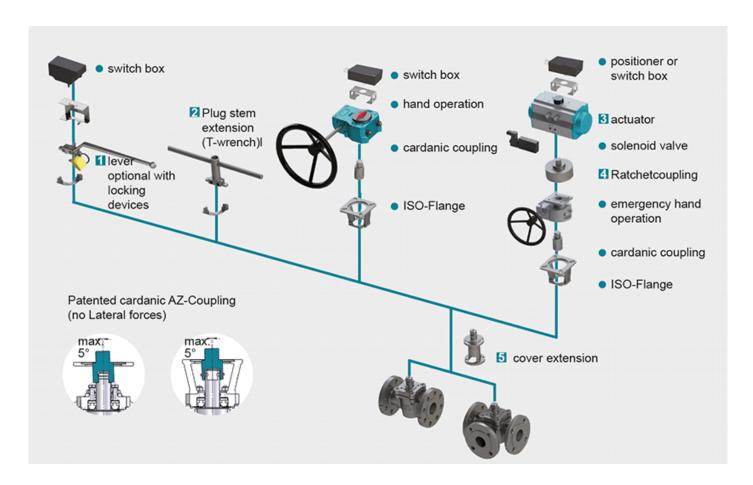
Typ BW



Typ SW



## **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

read more [...]