# **SAFE-LINED**

Plug valve with chemical-resistant, vacuum-proof lining, with ISO top flange, sealing system for fluctuating temperatures Type SAFE-LINED

DIN-EN: DN 15 - 600 / PN 10 - 40 ASME: NPS  $\frac{1}{2}$ " - 24" / class 150 - 300 PT range: -30 < T < 210°C, vacuum tight



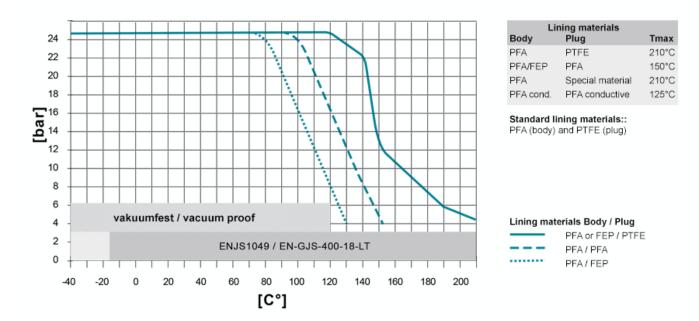
### **Design Features**

### **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
- with chemical resistant lining thickness min. 3 mm vacuum tight
- fugitive emmission resp. clean air act certified (TA Luft 2002 approval)
- Directive 2014/68/EU
- FDA conformity

### **PT-Diagramm**

#### General Pressure-Temperature-Diagram



The specified values depend on the respective application (medium). Operating temperatures under -20°C only with body material 1.4408 or low-temperature steel. Hight pressure resistance / temperature resistance on request, e.g. PN 40.

Sleeve: There are different sleeve materials / compounds available.

### **Materials**

### Standard body materials

Ductile cast iron ENJS 1049, ASTM Gr 60-40-18 / A395

### Standard plug materials

- Stainless Steel 1.4308, ASTM A351 CF8
- Ductile cast iron ENJS 1049, ASTM Gr 60-40-18 / A395

### **Special materials**

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

### **Lining materials**

- Body: PFA, PFA-conductive, FEP
- Plug: PTFE, PFA, PFA-conductive, FEP

### **Sealing Systems**

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

## **Type CASN-A**

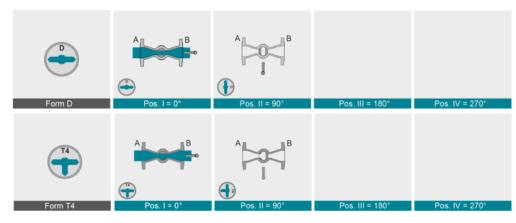
read more [...]

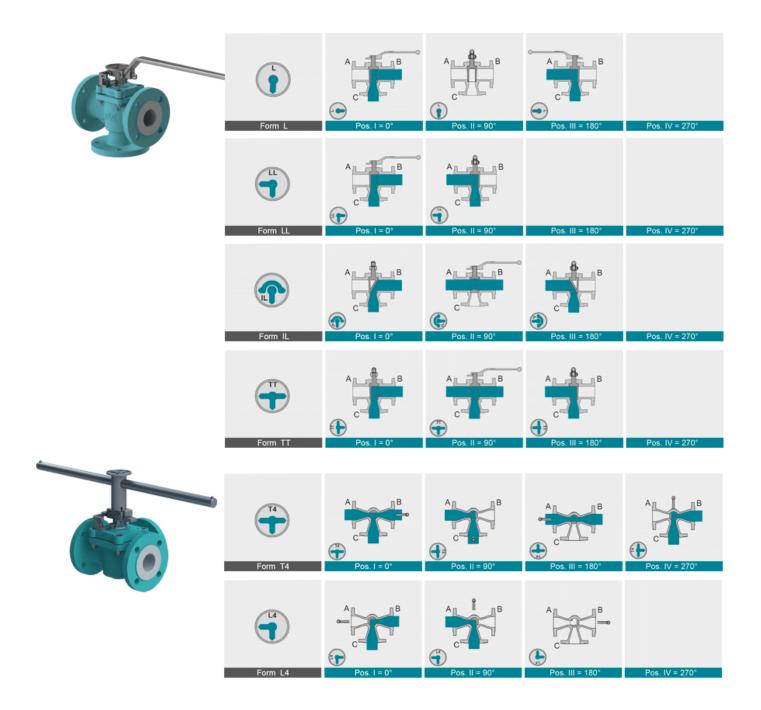
### **Port Forms**



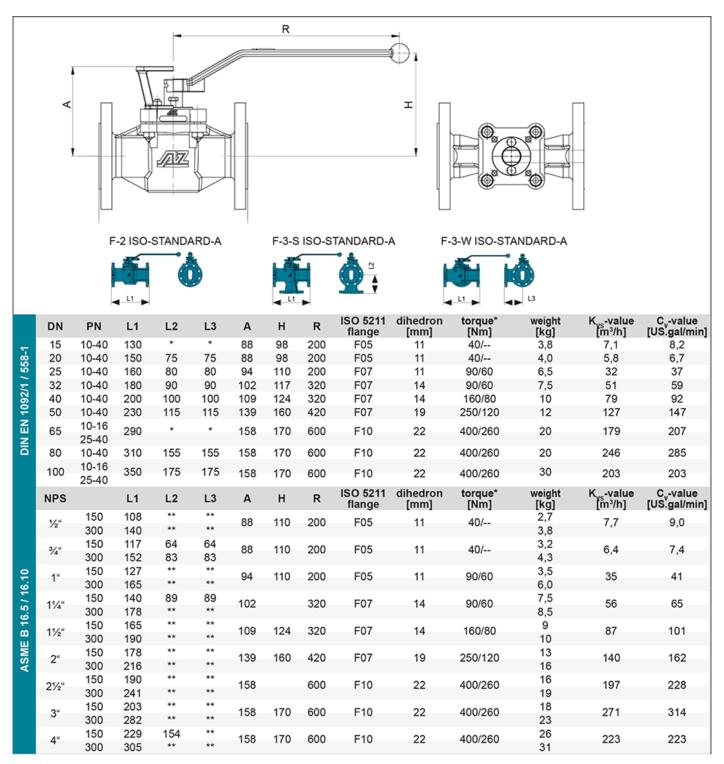
AZ plug valves are fitted with cast, rust proof position indicators. The position indicator is securely welded to the lever to prevent it from working loose.







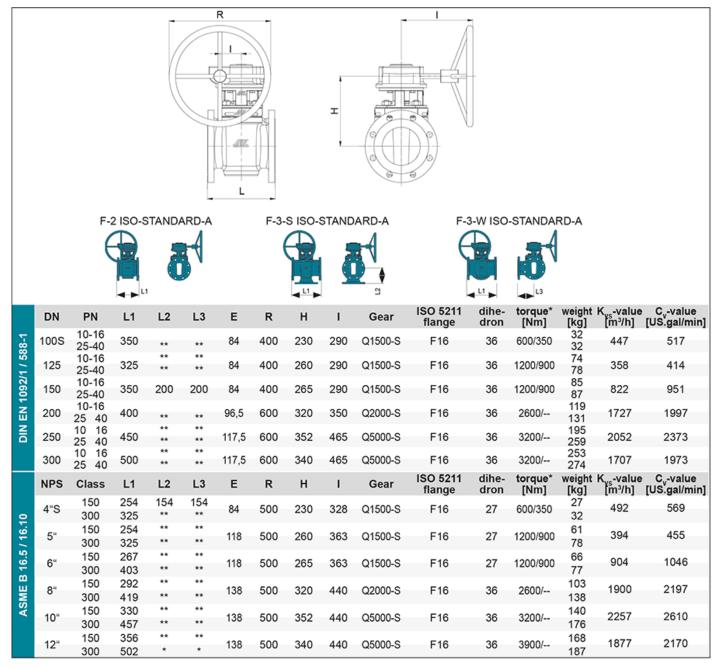
# **Dimensions**



ISO flange instructions, weights and Kvs values for straight-way valves

<sup>\*)</sup> Maxium breakaway torque MD breakaway [Nm] for F2 and F3S ISO STANDARD A depending on material combinations (PFA+PFA / PFA+PTFE). All data incl. 100% safety factor. Breakaway torques for valves - tapes F-4 and F3W on request

<sup>\*\*)</sup> on request



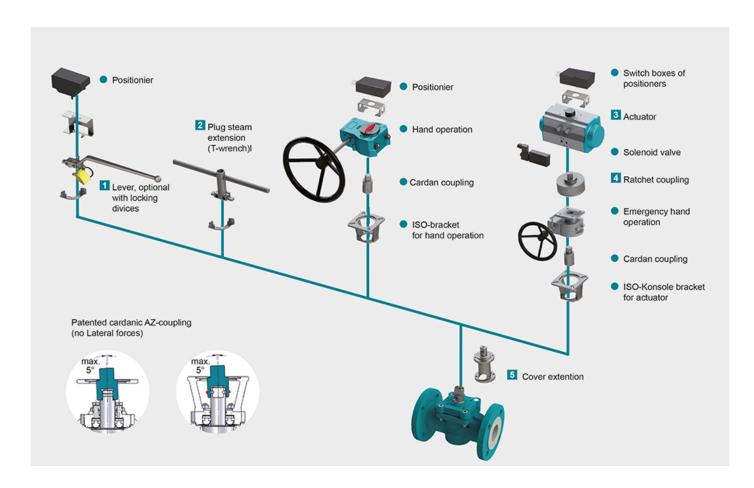
For geometric reasons, threads are used in the flange bores in a few cases

### **Actuation**

ISO flange instructions, weights and Kvs values for straight-way valves

<sup>\*)</sup> Maxium breakaway torque MD breakaway [Nm] for F2 and F3S ISO STANDARD A depending on material combinations (PFA+PFA / PFA+PTFE). All data incl. 100% safety factor. Breakaway torques for valves – tapes F-4 and F3W on request

<sup>\*\*)</sup> on request



### 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 [...]