

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

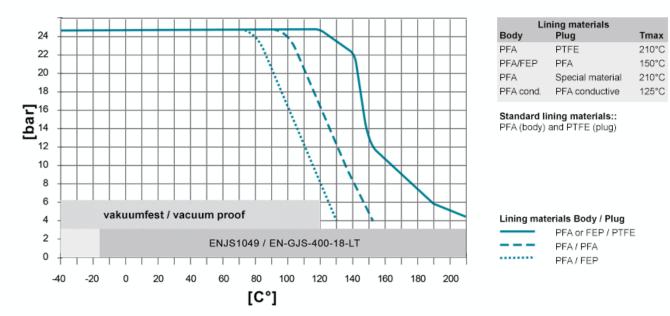
Design Characteristics

- 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
- 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_{max} 230°C

Type CASN-A

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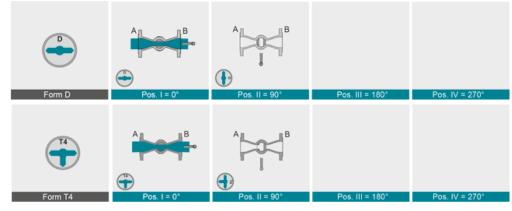


Port Forms

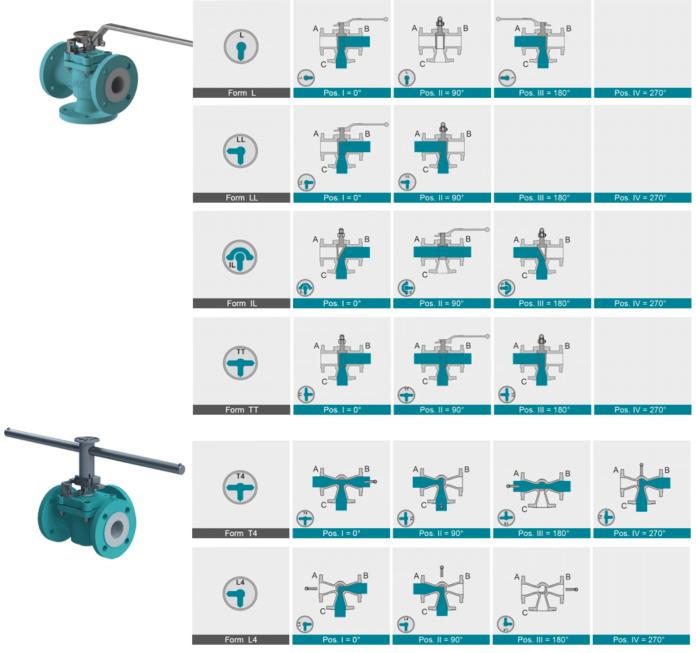


AZ plug valves are fitted with cast, rust proof position indicators
The position indicator is securely welded to the plug to prevent it from working loose.



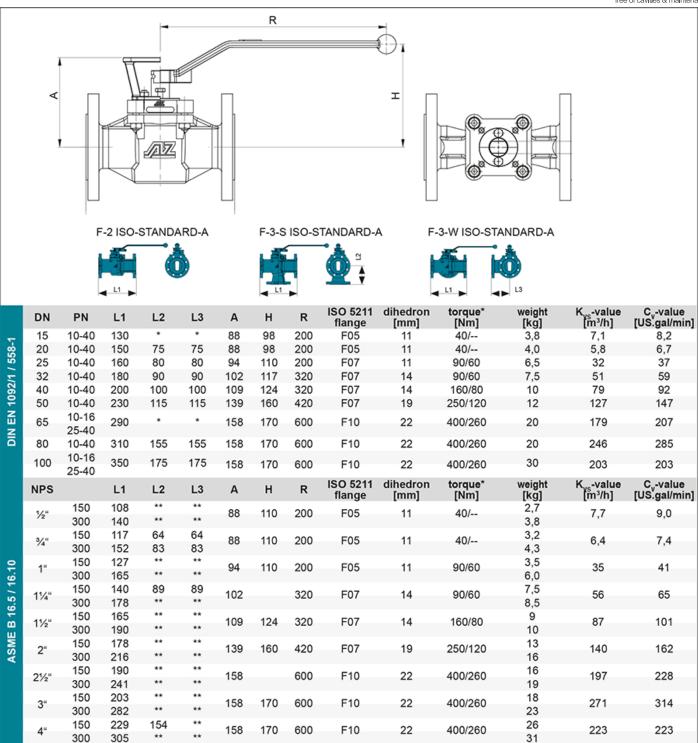






Dimensions





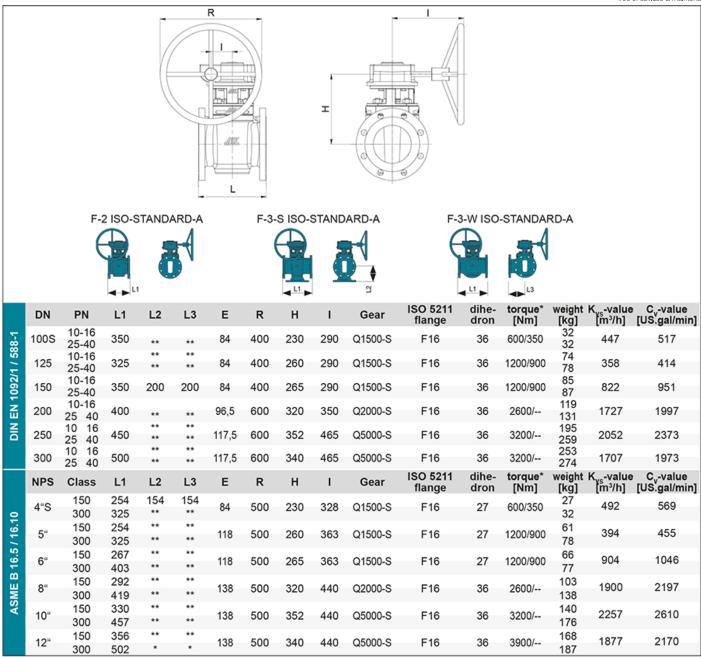
ISO flange instructions, weights and Kvs values for straight-way valves

^{*)} 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

^{**)} on request





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

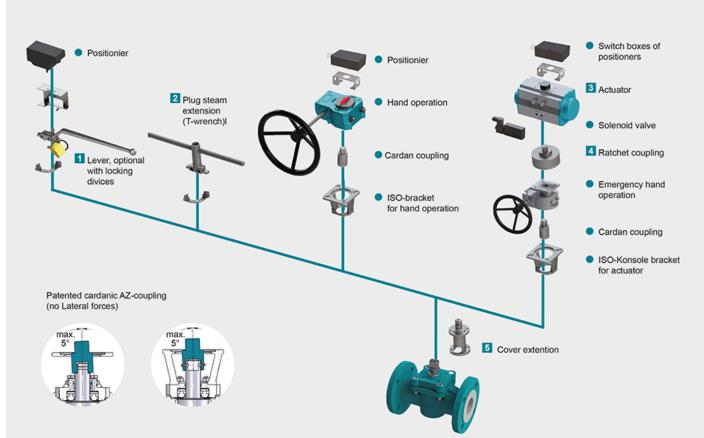
Actuation

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

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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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