

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

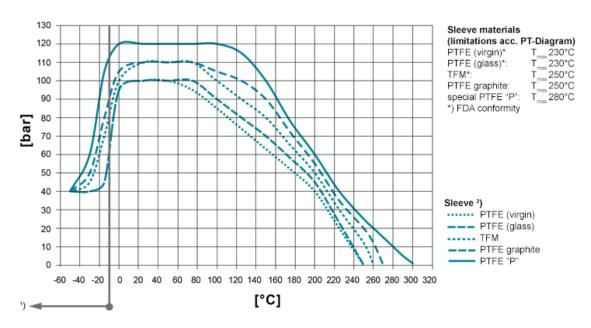
Design Characteristics

- 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

stem sealing; Tmax 280°C **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

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 read more [...]

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 [...]

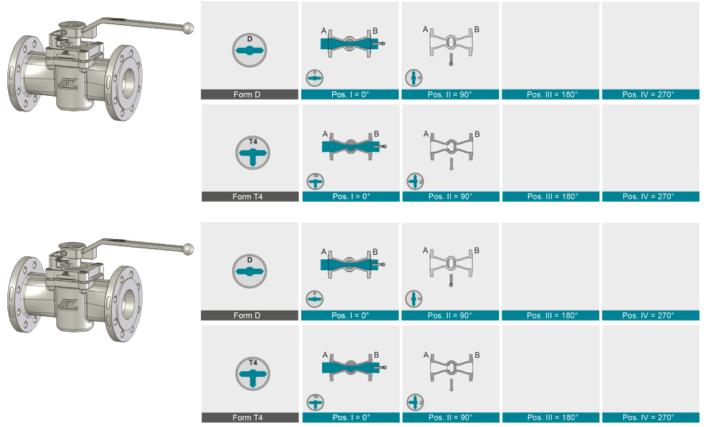
Port Forms



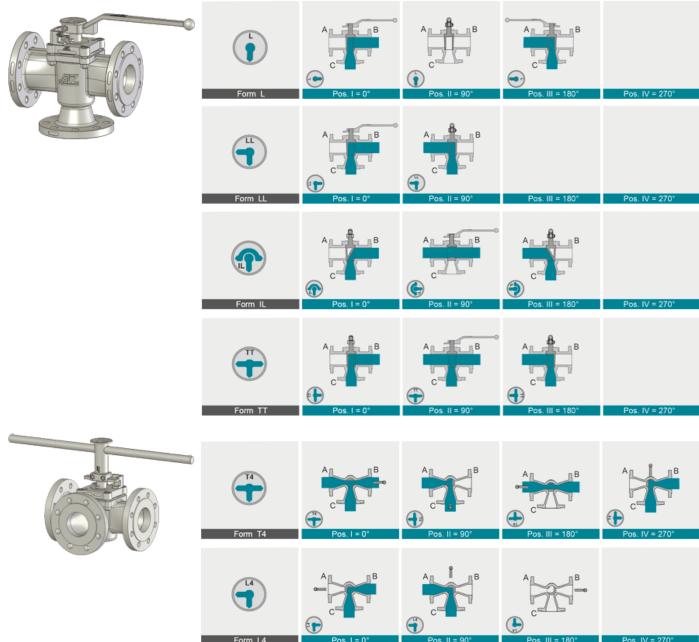
AZ plug valves are fitted with cast, rust proof position indicators.

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







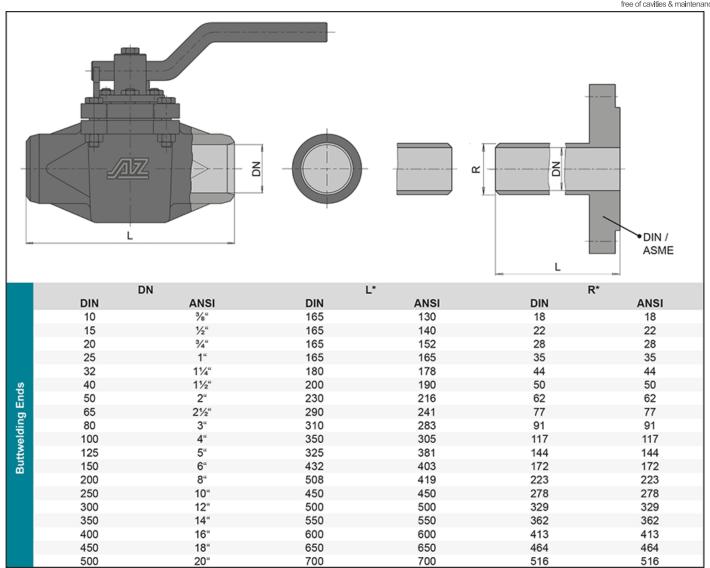


others on request

Technische Daten

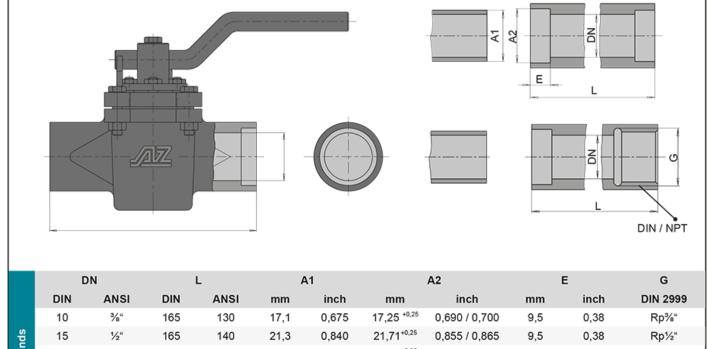
Typ BW





Typ

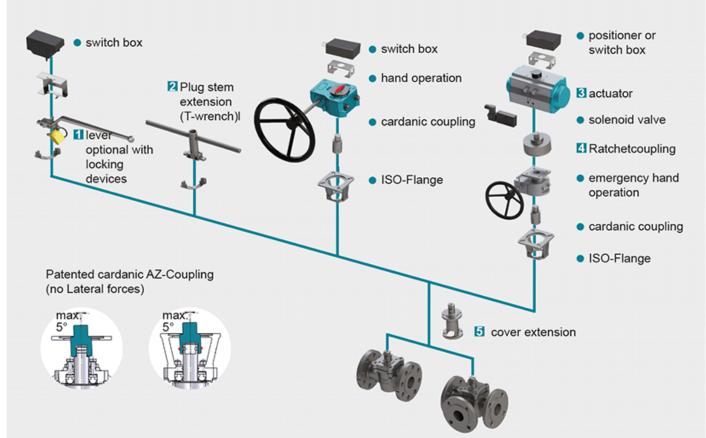




		DN		L		A1		A2		E		G
		DIN	ANSI	DIN	ANSI	mm	inch	mm	inch	mm	inch	DIN 2999
		10	3/8"	165	130	17,1	0,675	17,25 +0,25	0,690 / 0,700	9,5	0,38	Rp³⁄₃"
- C	Spc	15	1/2"	165	140	21,3	0,840	21,71+0,25	0,855 / 0,865	9,5	0,38	Rp½"
	ה ה	20	3/4"	165	152	26,7	1,050	27,05*0,25	1,065 / 1,075	13	0,5	Rp¾"
:	Socketwelding	25	1"	165	165	33,4	1,315	33,78*0,25	1,330 / 1,340	13	0,5	Rp1"
	Me.	32	11⁄4"	180	178	42,2	1,660	42,54*0,25	1,675 / 1,685	13	0,5	Rp1¼"
	Ke Ke	40	11/2"	200	190	48,3	1,900	48,64*0,25	1,915 / 1,925	13	0,5	Rp1½"
	Š	50	2"	230	216	60,3	2,375	61,11+0,25	2,406 / 2,416	16	0,62	Rp2"
		65	21/2"	290	241	73,0	2,875	73,87+0,38	2,906 / 2,921	16	0,62	-
		80	3"	310	283	88,9	3,500	89,86+0,38	3,535 / 3,550	16	0,62	-
		100	4"	350	305	114,3	4,500	115,53+0,38	4,545 / 4,560	20	0,75	-

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 [...]