

ISO-STANDARD A CA

Plug valve with chemical-resistant, vacuum-proof lining, with ISO top flange, sealing system Type CA

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

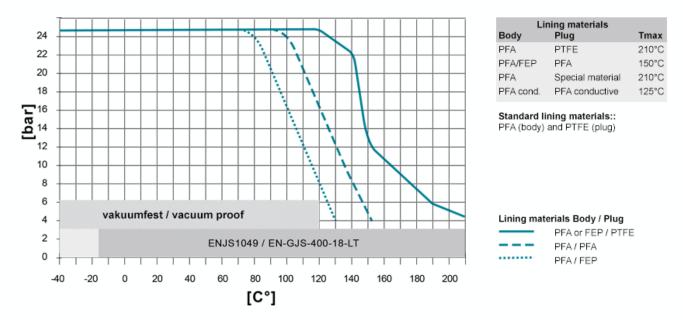
Design Characteristics

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

Type CA read more [...]



Port Forms

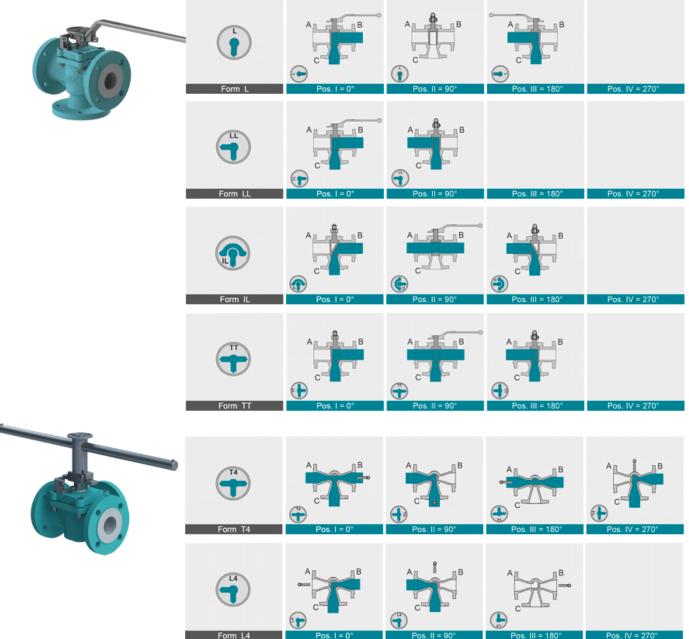


AZ plug valves are fitted with cast, rust proof position indicators. The position indicator is securely welded to the lever to prevent it from working loose.



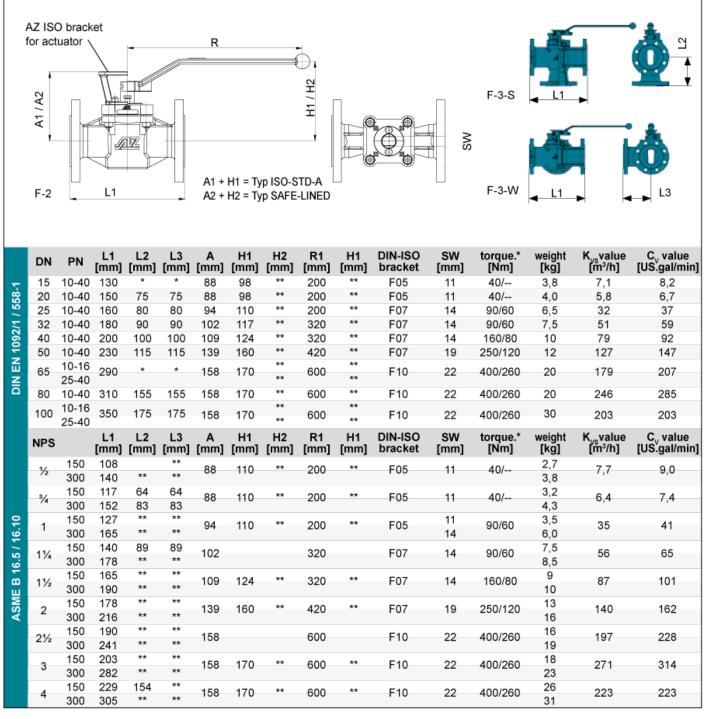
Form D	Pos. I = 0°	A B B B B B B B B B B B B B B B B B B B	Pos. III = 180°	Pos. IV = 270°
Form T4	Pos. I = 0'	A B B B B B B B B B B B B B B B B B B B	Pos. III = 180°	Pos. IV = 270°





Dimensions





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

*) Maximum breakaway torque Md breakawa< [Nm] for F-2 and F-3-S ISO standard A depending on material combinations (PFA+PFA / PFA+PT-FE). All data incl. 100% safety factor Breakaway torques for valves - types F-4 and F-3-W on request

**) on request

Due to geometric reasons partly threaded holes in flange drilling



																of cavities & maintena
									т							
		F-2	2 150-5	TANDA	ARD-A		F-3-	s ISO-S	TAND	ARD-A	F-	3-W ISO	-STANDA	RD-A		
		(6	A		((
	DN	PN	L1	L2	L3	Е	R	н	1	Gear	ISO 5211 flange	dihe- dron	torque* [Nm]	weight [kg]	K _{γs} -value [m³/h]	C _v -value [US.gal/min]
38-1	100S	10-16 25-40	350	**	**	84	400	230	290	Q1500-S	F16	36	600/350	32 32	447	517
1/58	125	10-16 25-40	325	**	**	84	400	260	290	Q1500-S	F16	36	1200/900	74 78	358	414
092/	150	10-16 25-40	350	200	200	84	400	265	290	Q1500-S	F16	36	1200/900	85 87	822	951
DIN EN 1092/1 / 588-1	200	10-16 25 40	400	**	**	96,5	600	320	350	Q2000-S	F16	36	2600/	119 131	1727	1997
DIN	250	10 16 25 40	450	**	**	117,5	600	352	465	Q5000-S	F16	36	3200/	195 259	2052	2373
	300	10 16 25 40	500	**	**	117,5	600	340	465	Q5000-S	F16	36	3200/	253 274	1707	1973
	NPS	Class	L1	L2	L3	Е	R	н	1	Gear	ISO 5211 flange	dihe- dron	torque* [Nm]	[kg]	K _{γs} -value [m³/h]	C _v -value [US.gal/min]
0	4"S	150 300	254 325	154 **	154 **	84	500	230	328	Q1500-S	F16	27	600/350	27 32	492	569
/ 16.1	5"	150 300	254 325	**	**	118	500	260	363	Q1500-S	F16	27	1200/900	61 78	394	455
ASME B 16.5 / 16.10	6"	150	267	**	**	118	500	265	363	Q1500-S	F16	27	1200/900	66 77	904	1046
В Ш	8"	300 150	403 292	**	**	138	500	320	440	Q2000-S	F16	36	2600/	103	1900	2197
ASM	-	300 150	419 330	**	**									138 140		
	10"	300	457	**	**	138	500	352	440	Q5000-S	F16	36	3200/	176	2257	2610
	12"	150 300	356 502	*	*	138	500	340	440	Q5000-S	F16	36	3900/	168 187	1877	2170

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

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

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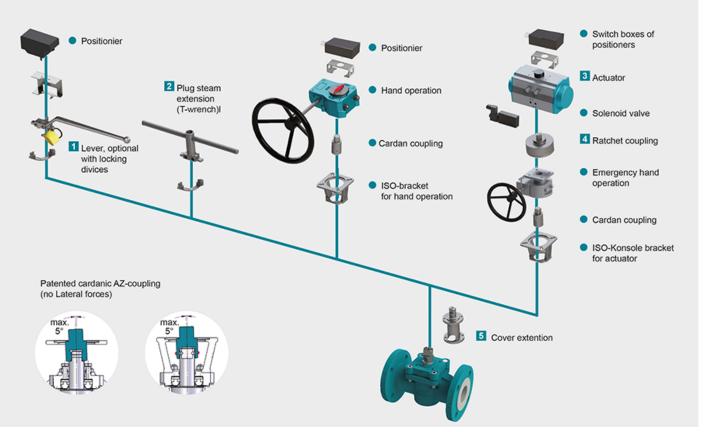
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Actuation





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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