

F-2 ISO-STANDARD CA

Two way plug valve with ISO top flange, sealing system CA

DIN-EN: DN 15 - 600 / PN 10 - 40 ASME: NPS ½" - 24" / class 150 - 300

PT range: -30 < T < 230°C, vaccum 10-8 mbar



Design Features

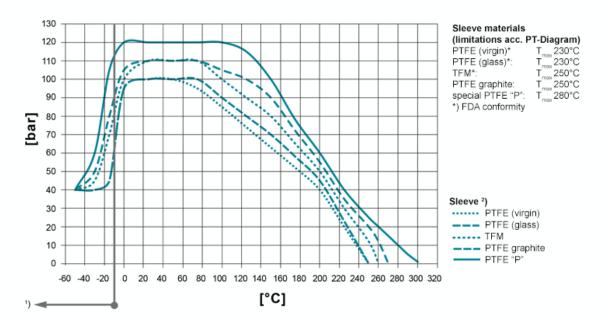
Design Characteristics

- 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
- vacuum tight
- fugitive emmission resp. clean air act certified (TA-Luft 2002 approval)
- Directive 2014/68/EU
- 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
- Ductile cast iron ENJS 1049, ASTM Gr 60-40-18 / A395
- Alloy
- Monel
- Nickel
- Zirconium
- Titan
- Tantal
- other materials on request

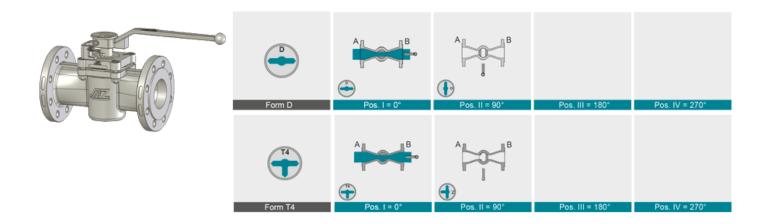


Sealing Systems

Chemical sealing to prevent fugitive emission of aggressive and toxic media with PTFE packing for additional stem sealing; $T_{\tiny max}\ 230^{\circ}C$

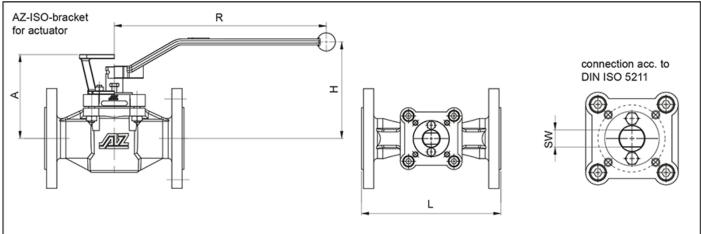
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Port Forms



Dimensions

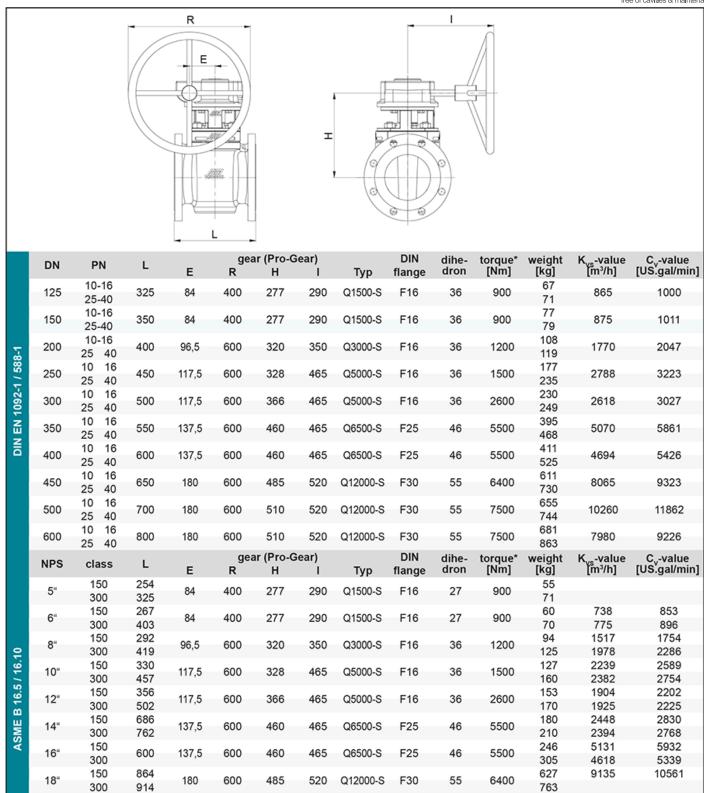




	DN	PN	L	øD	bra A	icket / le	ver R	DIN flange	dihe- dron	torque* [Nm]	weight [kg]	K _{γs} -value [m³/h]	C _v -value [US.gal/min]
	15	10-40	130	95	88	103	200	F05	11	30	3,8	12	14
	20	10-40	150	105	88	103	200	F05	11	30	4,3	13	15
7-	25	10-40	160	115	94	109	200	F05	11	30	4,9	25	29
DIN EN 1092-1 / 558-1	32	10-40	180	140	102	117	320	F07	14	70	8,6	46	53
	40	10-40	200	150	109	124	320	F07	14	80	9,6	85	98
	50	10-40	230	165	139	159	420	F07	19	120	13,9	160	185
	65	10-16 25-40	290	185	158	165	600	F10	22	200	19,3	262	302
	80	10-40	310	200	158	165	600	F10	22	200	21,4	275	317
	80S	10-40	310	200	173	180	600	F12	22	300	24,6	417	482
	100	10-16 25-40	350	220 235	158	165	600	F10	22	200	24,6	197	228
	100S	10-16 25-40	350	220 235	173	180	600	F12	22	300	28,9	582	673
	NPS	class	L	øD	bra A	icket / le	ver R	DIN flange	dihe- dron	torque* [Nm]	weight [kg]	K _{vs} -value [m³/h]	C _v -value [US.gal/min]
	1/2"	150	108	90	88	103	200	F05	11	30	2,7	14	16
		300	140	95	•	100	200	1 00		00	3,8	13	15
	3/4"	150	117	100	88	103	200	F05	11	30	3,2	13	16
	/4	300	152	115	• • • • • • • • • • • • • • • • • • • •					-	4,3	13	15
	1"	150	127	110	94	109	200	F05	11	30	3,5	24	28
ASME B 16.5 / 16.10	'	300	165	125	• .					•••	4,9	26	31
	11/4"	150	140	115	102	117	320	F07	14	70	5,4	46	53
	.,,-	300	178	135							8,6		
	1½"	150	165	125	109	124	320	F07	14	80	7	78	90
		300	190	155							9,6	79	92
	2"	150	178	150	139	159	420	F07	19	120	11,8	145	167
	_	300	216	165							13,9	156	180
	2½"	150	190	180	158	165	600	F10	22	200	15,5	236	273
		300	241	190							19,3		
	3"	150	203	190	158	165	600	F10	22	200	18,2	225	260
		300	282	210							21,4	228	264
	4"	150	229	230	158	165	600	F10	22	200	20,3	169	195
		300	305	255							24,6	198	229
	4"S	150	229	230	173	180	600	F12	22	300	24,6	523	604
		300	305	255							28,9	542	627

^{*} inclusive 100% safety factor for actuators





20"

24"

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

Q12000-S

Q12000-S

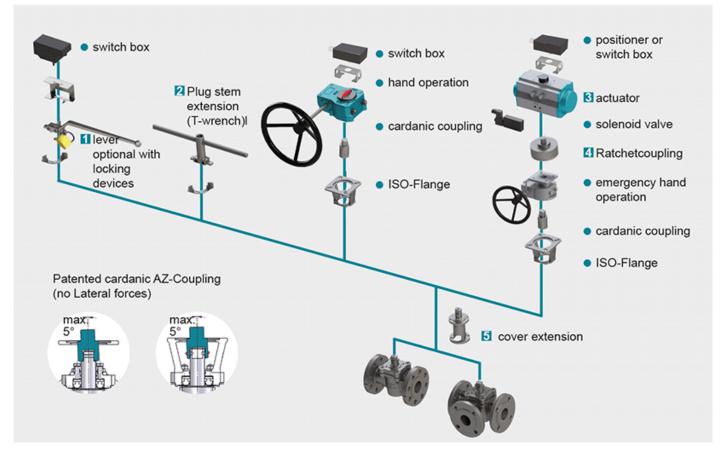
F30

F30

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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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