

## F-2 ISO-STANDARD STD

# Two way plug valve with ISO top flange with sealing system STD

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

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



## **Design Features**

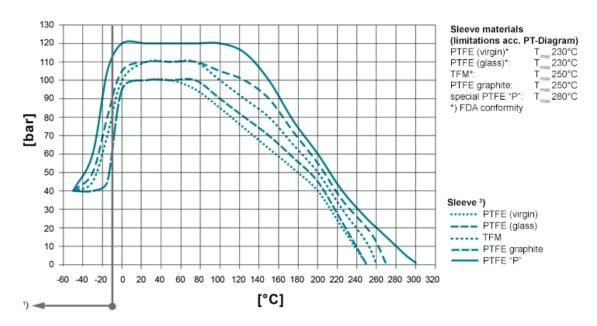
## **Design Characteristics**

- 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
- Firesafe 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
- Ductile cast iron ENJS 1049, ASTM Gr 60-40-18 / A395
- Alloy
- Monel
- Nickel
- Zirconium
- Titan
- Tantal
- other materials on request



## **Sealing Systems**

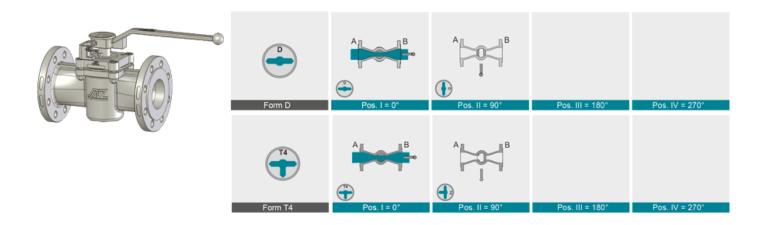
Standard sealing for all major applications;

Tmax 230°C

**Type STD** 

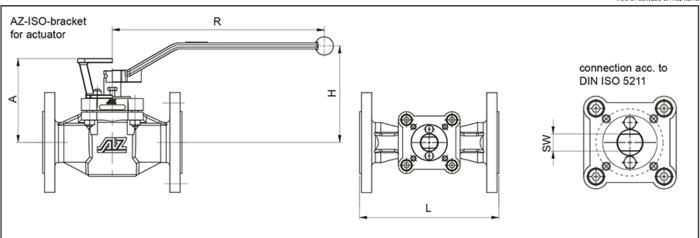
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## **Portforms**



## **Dimensions**

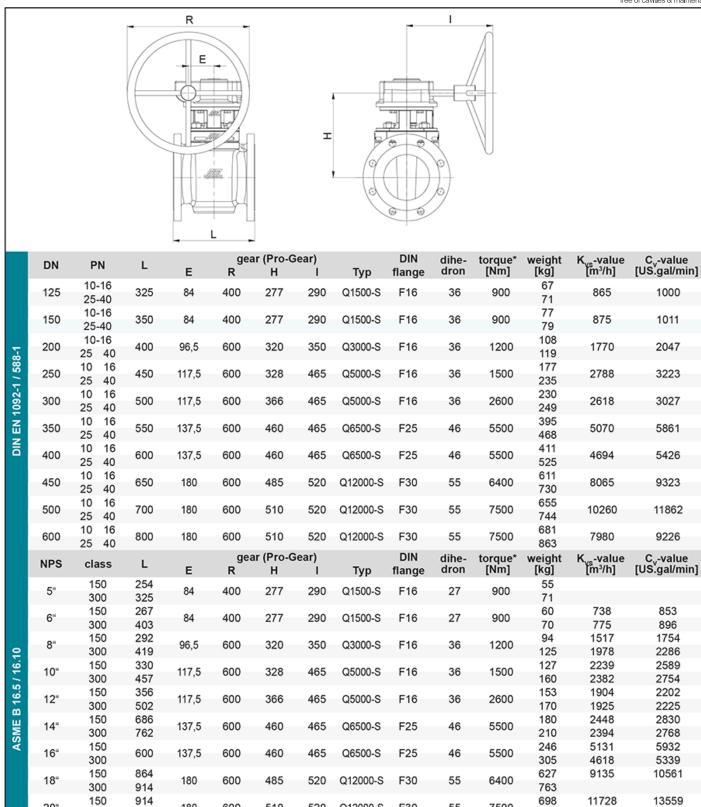




	DN	PN	L	øD	bracket / lever			DIN	dihe- dron	torque* [Nm]	weight	K <sub>vs</sub> -value [m³/h]	C <sub>v</sub> -value [US.gal/min]
	15	10-40	130	95	<b>A</b> 88	H 103	<b>R</b> 200	flange F05	11	30	[ <b>kg]</b> 3,8	12	14
	20	10-40	150	105	88	103	200	F05	11	30	4,3	13	15
5	25	10-40	160	115	94	109	200	F05	11	30	4,9	25	29
558-1	32	10-40	180	140	102	117	320	F07	14	70	8,6	46	53
1.5	40	10-40	200	150	109	124	320	F07	14	80	9,6	85	98
2-1	50	10-40	230	165	139	159	420	F07	19	120	13,9	160	185
DIN EN 1092-1 /		10-16											
	65	25-40	290	185	158	165	600	F10	22	200	19,3	262	302
<u> </u>	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	350	220	173	180	600	F12	22	300	28,9	582	673
		25-40		235					22	000	20,0		
	NPS	class	L	øD	bra A	acket / le	ver R	DIN flange	dihe- dron	torque* [Nm]	weight [kg]	K <sub>vs</sub> -value [m³/h]	C <sub>v</sub> -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
		300	152	115							4,3	13	15
	1"	150	127	110	94	109	200	F05	11	30	3,5	24	28
10		300	165	125	• •					•••	4,9	26	31
/ 16.10	11⁄4"	150	140	115	102	117	320	F07	14	70	5,4	46	53
ASME B 16.5 /		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
	21/2"	150	190	180	158	165	600	F10	22	200	15,5	236	273
	3"	300	241	190							19,3	005	000
		150	203	190	158	165	600	F10	22	200	18,2	225	260
	4" 4"S	300	282	210							21,4	228 169	264
		150 300	229 305	230 255	158	165	600	F10	22	200	20,3 24,6	198	195 229
		150	229	230							24,6	523	604
					173	180	600	F12	22	300			
		300	305	255	1/3	180	600	F12	22	300	28,9	542	627

<sup>\*</sup> inclusive 100% safety factor for actuators





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20"

24"

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

Q12000-S

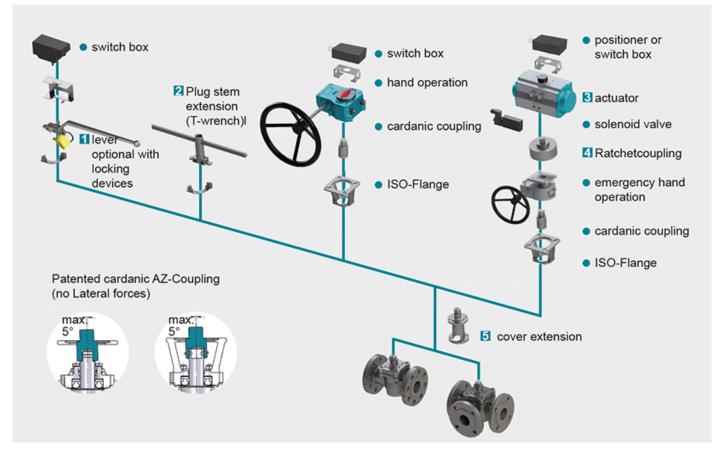
Q12000-S

F30

F30



#### **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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