# F-2 ISO-STANDARD CASN

Two way plug valve for fluctuation temperatures, Chemical Sealing System Type CASN/CASN-SL, with ISO-top flange

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

PT range: -30 < T < 230/280°C, vacuum 10-8 mbar



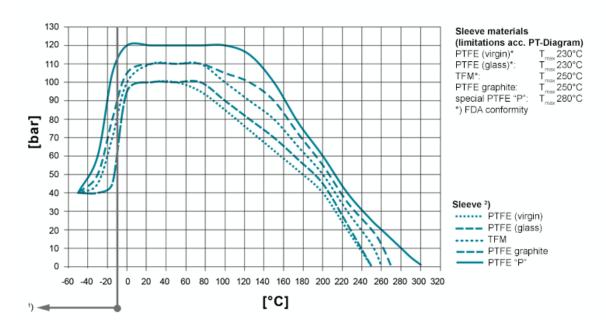
# **Design Features**

## **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
- 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 safety sealing for fluctuating temperatures with 3x PTFE packing (adjustment) for additional stem sealing; Tmax 230°C

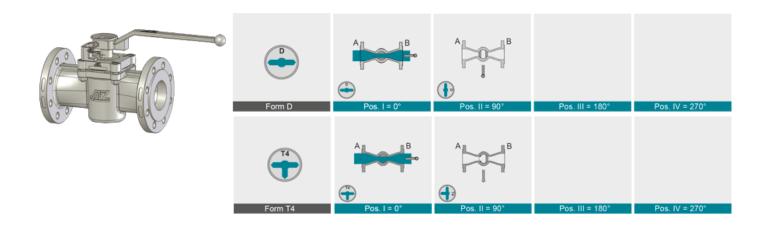
Type CASN

read more [...]

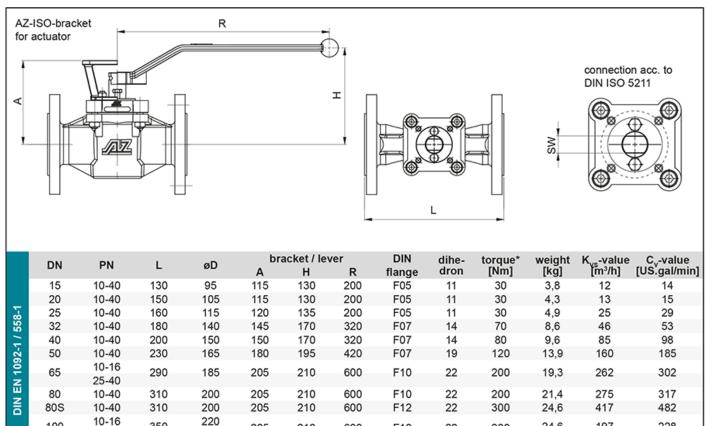
Chemical safety sealing for fluctuating temperatures with 3x PTFE packing (live loaded disc springs) for additional stem sealing; Tmax 230°C

Type CASN-SL read more [...]

## **Port Forms**

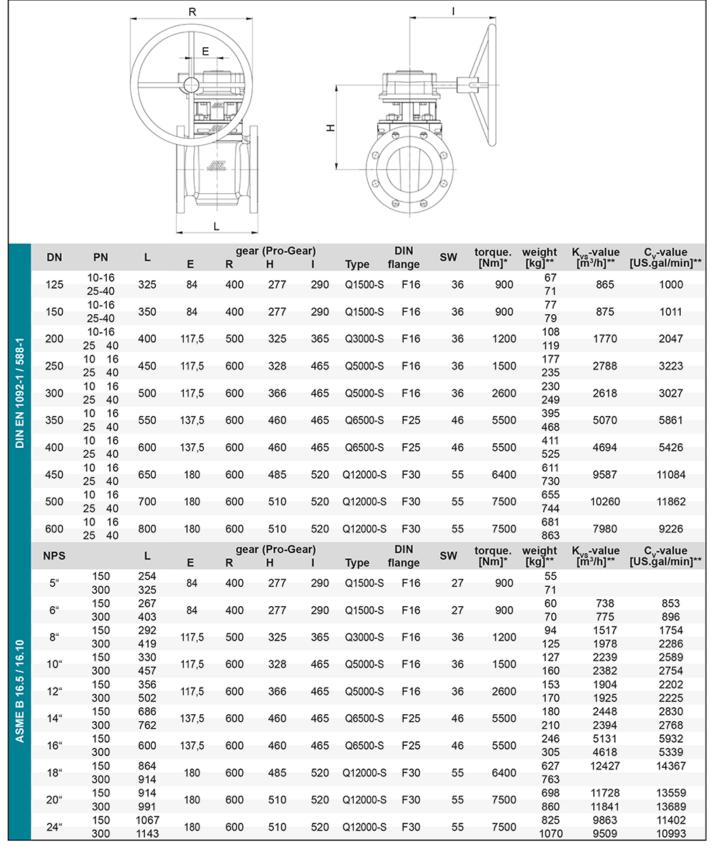


## **Dimensions**



DIN	80	10-40	310	200	205	210	600	F10	22	200	21,4	275	317
	80S	10-40	310	200	205	210	600	F12	22	300	24,6	417	482
	100	10-16 25-40	350	220 235	205	210	600	F10	22	200	24,6	197	228
	1008	10-16 25-40	350	220 235	215	215	600	F12	22	300	28,9	582	673
ASME B 16.5 / 16.10	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"	150 300	108 140	90 95	88	103	200	F05	11	30	2,7 3,8	14 13	16 15
	3/4"	150 300	117 152	100 115	88	103	200	F05	11	30	3,2 4,3	13 13	16 15
	1"	150 300	127 165	110 125	94	109	200	F05	11	30	3,5 4,9	24 26	28 31
	11/4"	150 300	140 178	115 135	102	117	320	F07	14	70	5,4 8,6	46	53
	1½"	150 300	165 190	125 155	109	124	320	F07	14	80	7 9,6	78 79	90 92
	2"	150 300	178 216	150 165	139	159	420	F07	19	120	11,8 13,9	145 156	167 180
AS	2½"	150 300	190 241	180 190	158	165	600	F10	22	200	15,5 19,3	236	273
	3"	150 300	203 282	190 210	158	165	600	F10	22	200	18,2 21,4	225 228	260 264
	4"	150 300	229 305	230 255	158	165	600	F10	22	200	20,3 24,6	169 198	195 229
	4"S	150 300	229 305	230 255	173	180	600	F12	22	300	24,6 28,9	523 542	604 627

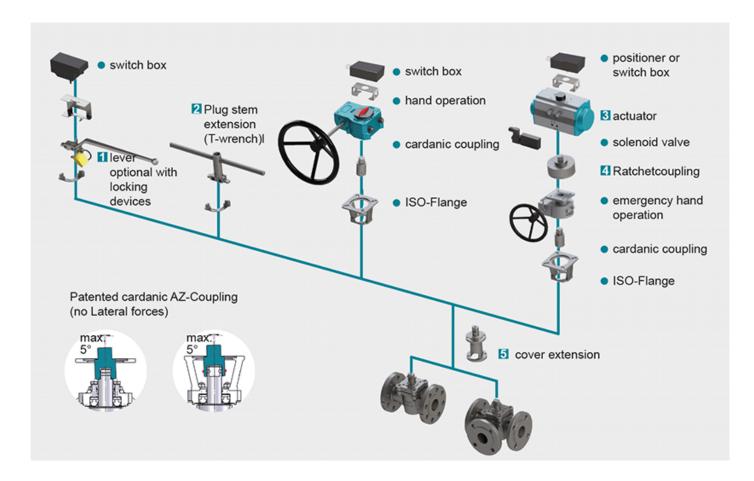
<sup>\*</sup> inclusive 100% safety factor for actuators



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

## **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 [...]