F-2 ISO-STANDARD FS

Two way plug valve with ISO top flange, with Firesafe sealing System FS

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



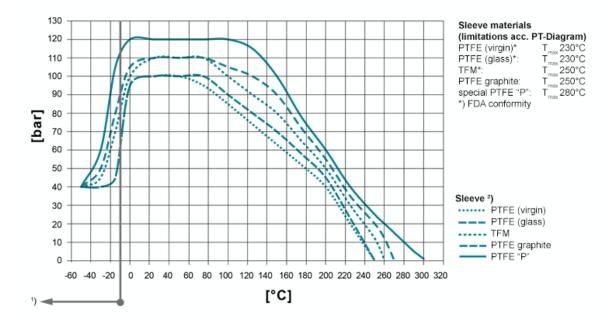
Design Features

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
- 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

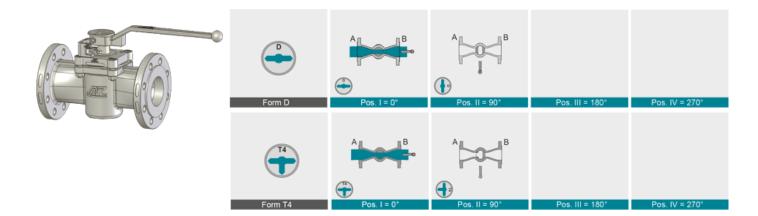
Sealing Systems

Firesafe sealing (API 607) with graphite packing for additional stem sealing; Tmax 230°C

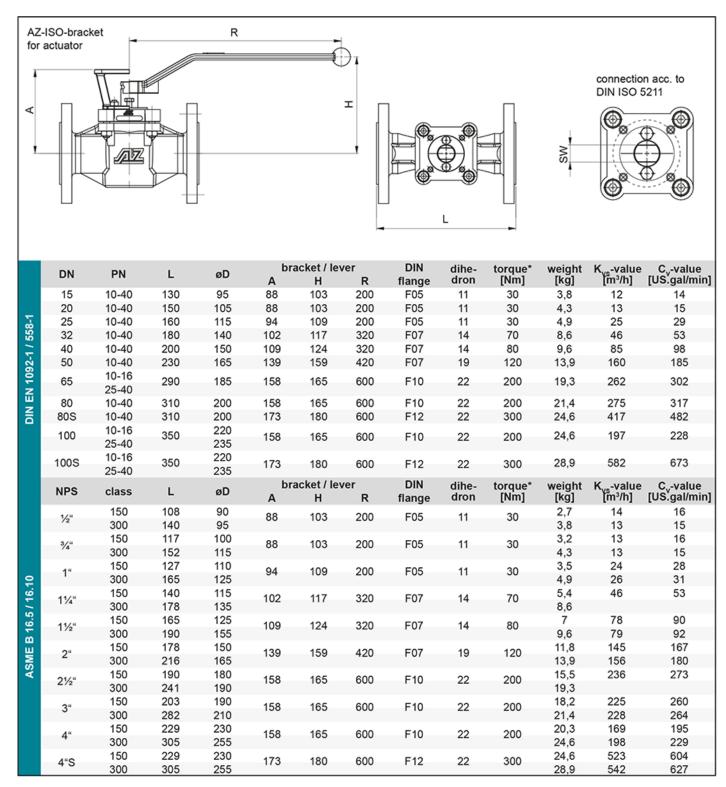
Type FS

read more [...]

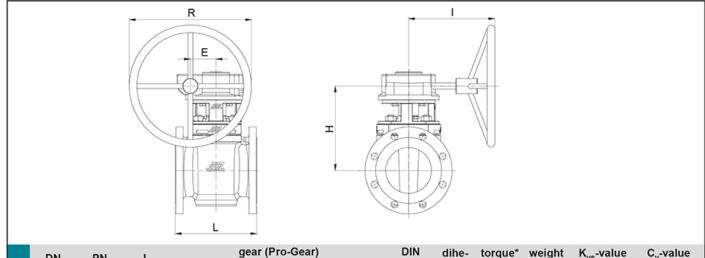
Port Forms



Dimensions



* inclusive 100% safety factor for actuators

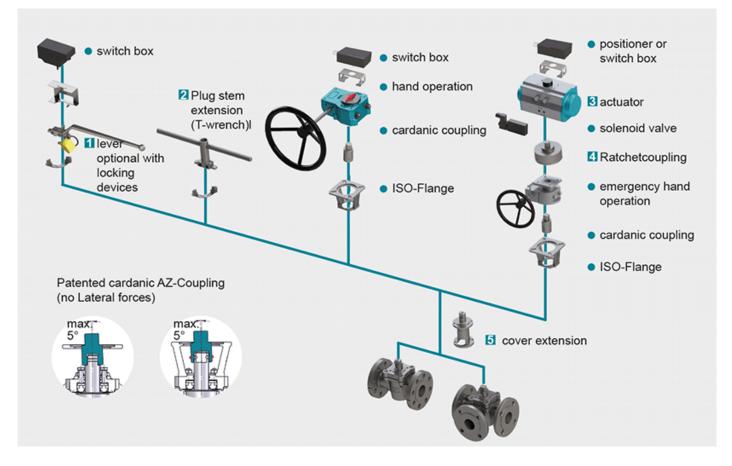


	DN	PN	L	Е	gear (Pro-Gear) R H I			Тур	flange	dihe- dron	torque* [Nm]	weight [kg]	K _{vs} -value [m ³ /h]	C _v -value [US.gal/min]
		10-16					•		-			67		
DIN EN 1092-1 / 588-1	125	25-40	325	84	400	277	290	Q1500-S	F16	36	900	71	865	1000
	150	10-16 25-40	350	84	400	277	290	Q1500-S	F16	36	900	77 79	875	1011
	200	10-16 25 40	400	96,5	600	320	350	Q3000-S	F16	36	1200	108 119	1770	2047
	250	10 16 25 40	450	117,5	600	328	465	Q5000-S	F16	36	1500	177 235	2788	3223
	300	10 16 25 40	500	117,5	600	366	465	Q5000-S	F16	36	2600	230 249	2618	3027
	350	10 16 25 40	550	137,5	600	460	465	Q6500-S	F25	46	5500	395 468	5070	5861
	400	10 16 25 40	600	137,5	600	460	465	Q6500-S	F25	46	5500	411 525	4694	5426
	450	10 16 25 40	650	180	600	485	520	Q12000-S	F30	55	6400	611 730	8065	9323
	500	10 16 25 40	700	180	600	510	520	Q12000-S	F30	55	7500	655 744	10260	11862
	600	10 16 25 40	800	180	600	510	520	Q12000-S	F30	55	7500	681 863	7980	9226
B 16.5 / 16.10	NPS	class	L	Е	gea R	ar (Pro-G H	iear) I	Тур	DIN flange	dihe- dron	torque* [Nm]	weight [kg]	K _{ys} -value [m³/h]	C _v -value [US.gal/min]
	5"	150 300	254 325	84	400	277	290	Q1500-S	F16	27	900	55 71		
	6"	150 300	267 403	84	400	277	290	Q1500-S	F16	27	900	60 70	738 775	853 896
	8"	150 300	292 419	96,5	600	320	350	Q3000-S	F16	36	1200	94 125	1517 1978	1754 2286
	10"	150 300	330 457	117,5	600	328	465	Q5000-S	F16	36	1500	127 160	2239 2382	2589 2754
3 16.5	12"	150 300	356 502	117,5	600	366	465	Q5000-S	F16	36	2600	153 170	1904 1925	2202 2225
ASME	14"	150 300	686 762	137,5	600	460	465	Q6500-S	F25	46	5500	180 210	2448 2394	2830 2768
	16"	150 300	600	137,5	600	460	465	Q6500-S	F25	46	5500	246 305	5131 4618	5932 5339
	18"	150 300	864 914	180	600	485	520	Q12000-S	F30	55	6400	627 763	9135	10561
	20"	150 300	914 991	180	600	510	520	Q12000-S	F30	55	7500	698 860	11728 11841	13559 13689
	24"	150 300	1067 1143	180	600	510	520	Q12000-S	F30	55	7500	825 1070	9863 9509	11402 10993

* inclusive 100% safety factor for actuators

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 \geq 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 [...]