



**VALVE AND FLOW CONTROL SPECIALISTS**  
*SERVICE AND RELIABILITY*

**AVZ**  
**ARMATUREN**  
free of cavity & maintenance

## ● TYPE ISO - STANDARD

**Plug Valve with ISO-Flange**

**DN 15 - 600 / PN 10 - 40**

**NPS ½" - 24" / class 150 - 300**

ALSO refer HP series for API 607 Firesafe  
up to class 900



1.1

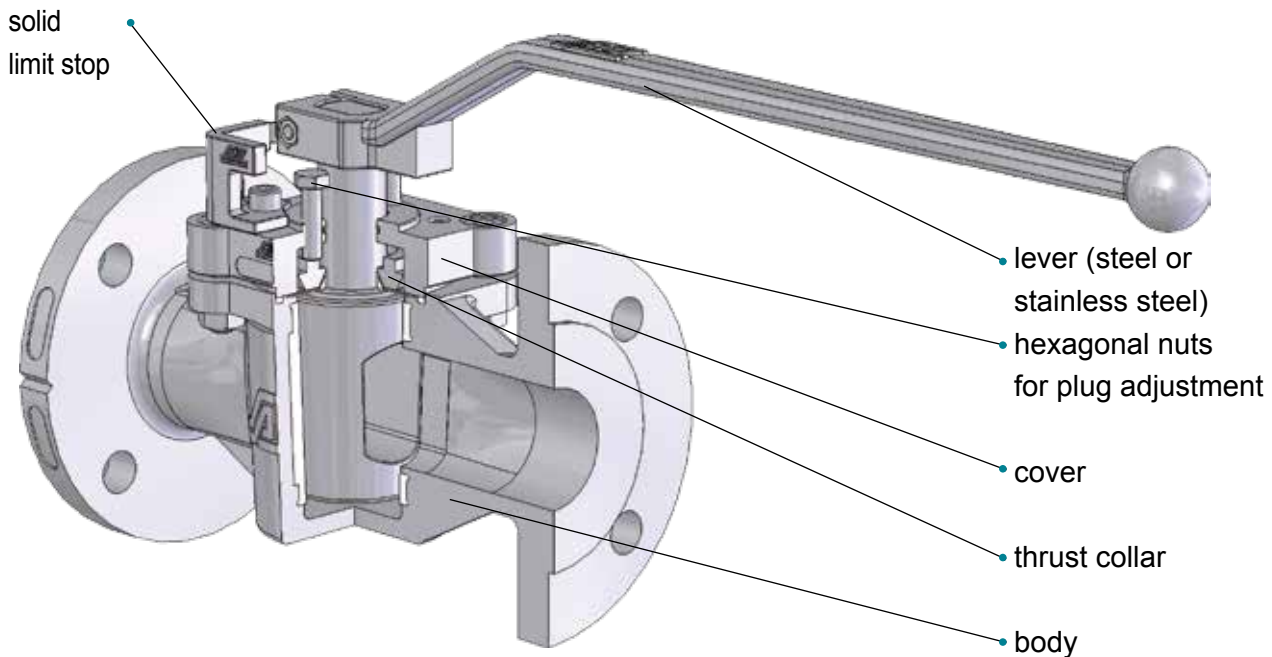
- free of cavities
- maintenance free - self lubricating
- mounting-flange for actuators acc. to DIN ISO 5211
- easy accessible adjustment of the plug
- vacuum tight
- TA - Luft 2002 approval
- Firesafe - Design API 607 / ISO 10497
- DVGW - approval



Brisbane Melbourne Adelaide Perth Darwin  
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# TYPE ISO - STANDARD

## Design characteristics



### The main advantages of the plug valve Type **ISO-STANDARD**:

- strong mounting flange for actuators acc. DIN ISO 5211: Cover screws independent of actuator mounting!
- patented full cardanic dihedron coupling
- improved shaft and cover sealing including V-diaphragm, delta thrust collar and PTFE cover sealing ring.
- safety spindle packing (FSN/CASN) to prevent fugitive emission of aggressive and toxic media.

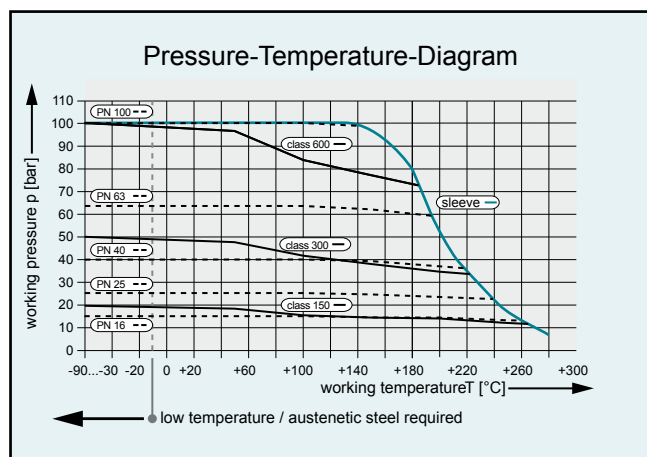
## Materials

### Standard body materials

- Ductile Iron EN-GJS-400-18 / (GGG 40.3) ASTM A395
- Carbon Steel 1.0619 (GS-C 25) / ASTM A216 WCB
- Stainless Steel 1.4408 / ASTM A351 CF8M

### Special body materials

- Hastelloy B / C
- Inconel
- Monel
- Nickel
- Zirconium
- Titanium
- Tantalum



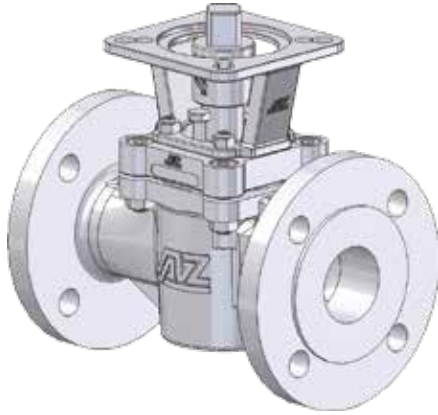
operating temperatures < -30°C and > 220 °C have to be checked and approved by AZ according to the operating conditions.

Other materials on request.

**On enquiry / order:** please state material for body and plug.

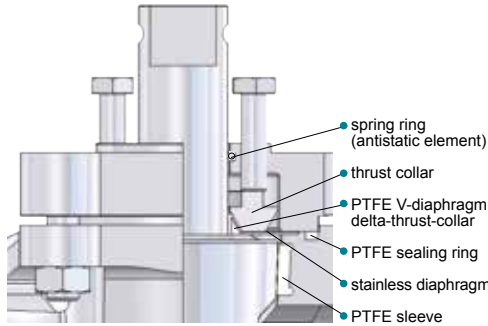
# TYPE ISO - STANDARD

Flexible sealing selection through modular design



**STD**

**Standard sealing for all major applications**



- primary sealing: PTFE sleeve
- secondary sealing: PTFE V-diaphragm with delta thrust collar

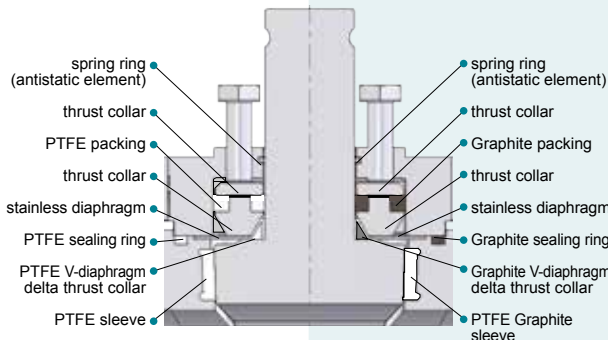
temperature range up to 230°C



**CA**

**FS**

**Chemistry sealing to prevent fugitive emission of aggressive and toxic media**

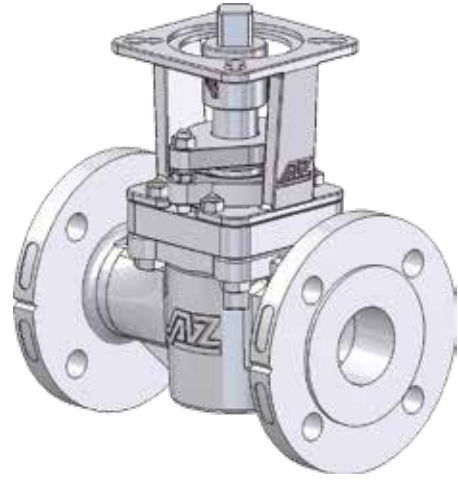


- primary sealing: PTFE sleeve
- secondary sealing: PTFE V-diaphragm with delta thrust collar
- tertiary sealing: spindle packing

temperature range up to 250°C



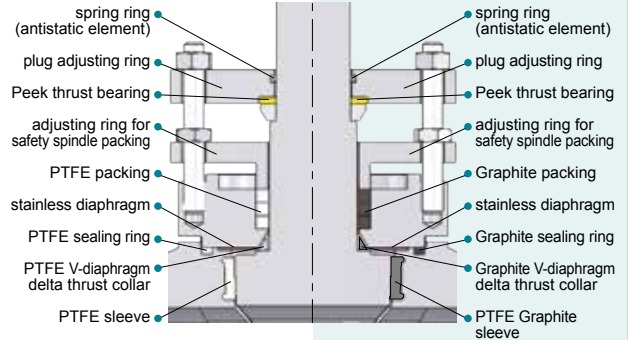
temperature range up to 300°C  
Fire-Safe Design (API 607)



**CASN**

**FSN**

**Safety sealing for fluctuating temperatures**



- primary sealing: PTFE sleeve
- secondary sealing: PTFE V-diaphragm with delta thrust collar
- tertiary sealing: triple safety spindle packing

temperature range up to 250°C



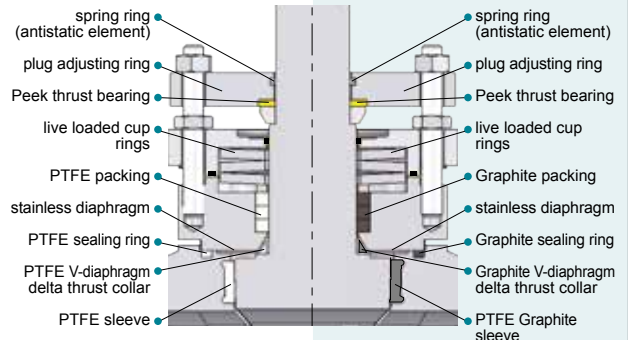
temperature range up to 300°C  
Fire-Safe Design (API 607)



**CASN-SL**

**FSN-SL**

**Life loaded safety sealing for fluctuating temperatures**



- primary sealing: PTFE-sleeve
- secondary sealing: PTFE V-diaphragm with delta-thrust-collar
- tertiary sealing: life loaded triple safety spindle packing

temperature range up to 250°C



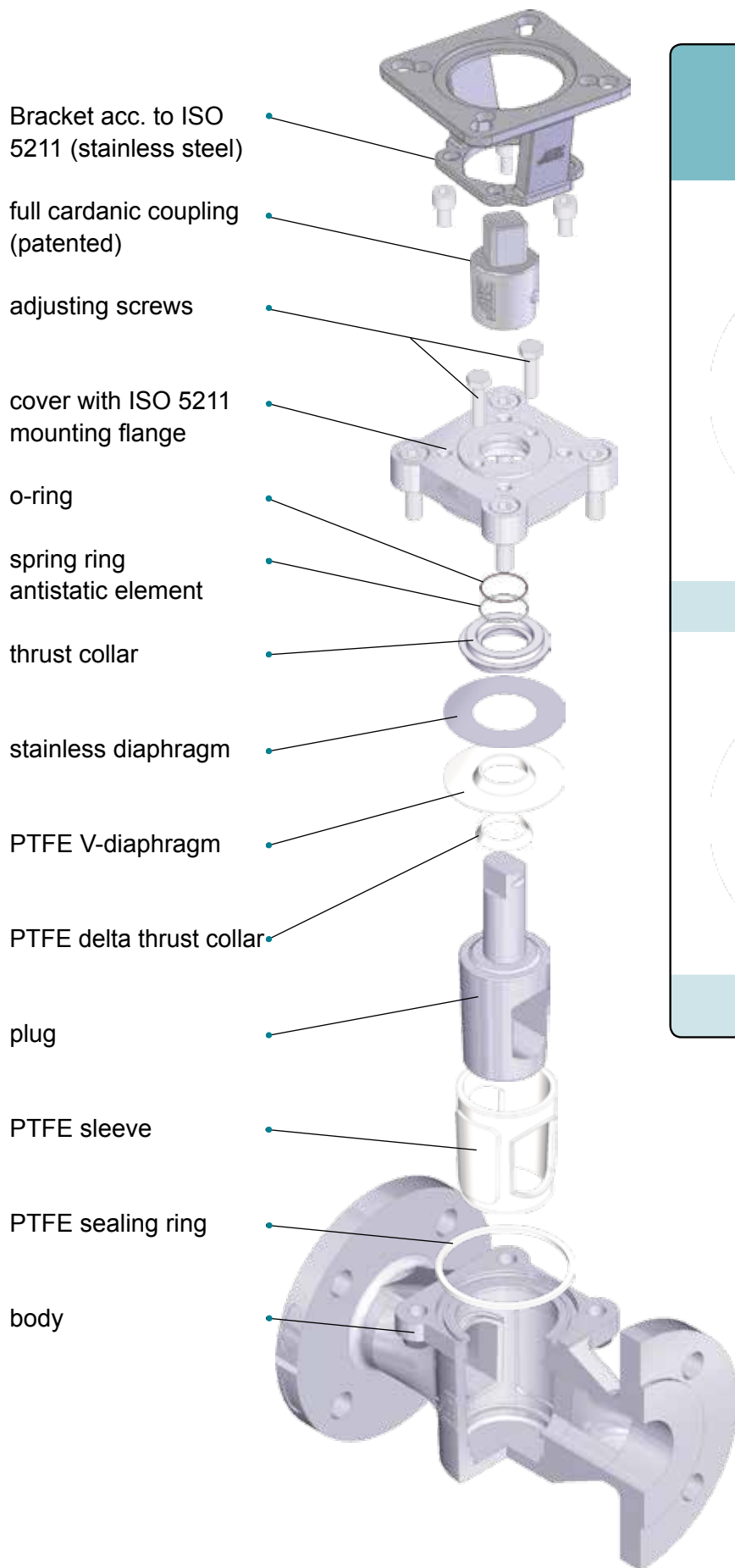
temperature range up to 300°C  
Fire-Safe Design (API 607)



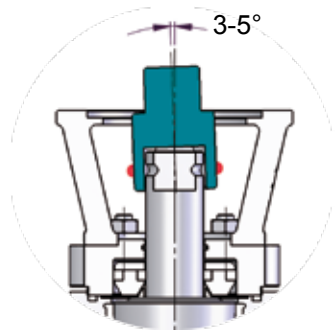


# TYPE ISO - STANDARD

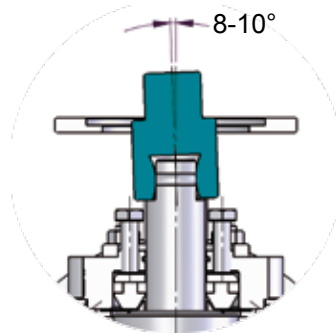
## Design



**NEW**  
patented  
cardanic AZ-Coupling



**NO LATERAL FORCES!**

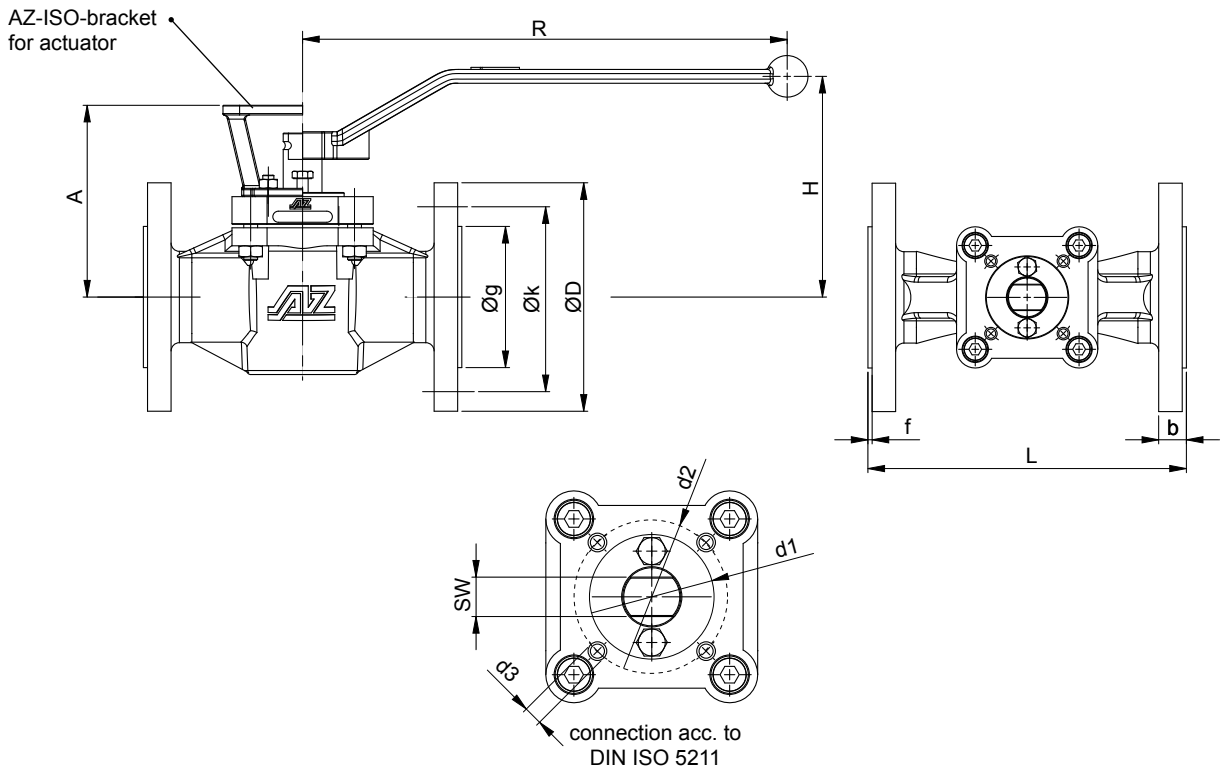


**GUARANTY**  
for long life span!



# TYPE ISO - STANDARD

Dimensions DN 15 - 100S NPS 1/2" - 4"S acc. to DIN / ASME



	DN	PN	L	øD	flange bore			øg	b	f	bracket / lever			flange DIN ISO 5211			US-UNC d3**	dihe-dron	torque.* [Nm]	weight [kg]	Kvs-value [m³/h]	Cv-value [US.gal/min]		
					øk	No.	ø				Type	d1	d2	d3										
DIN EN 1092/1 / 558-1	15	10-40	130	95	65	4	14	45	16	2	88	103	200	F05	35	50	M6	1/4"	11	30	3,8	12	14	
	20	10-40	150	105	75	4	14	58	18	2	88	103	200	F05	35	50	M6	1/4"	11	30	4,3	13	15	
	25	10-40	160	115	85	4	14	68	18	2	94	109	200	F05	35	50	M6	1/4"	11	30	4,9	25	29	
	32	10-40	180	140	100	4	18	78	18	2	102	117	320	F07	55	70	M8	5/16"	14	70	8,6	46	53	
	40	10-40	200	150	110	4	18	88	18	3	109	124	320	F07	55	70	M8	5/16"	14	80	9,6	85	98	
	50	10-40	230	165	125	4	18	102	20	3	139	159	420	F07	55	70	M8	5/16"	19	120	13,9	160	185	
	65	10-16 25-40	290	185	145	4 8	8	18	122	18 22	3	158	165	600	F10	70	102	M10	3/8"	22	200	19,3	262	302
	80	10-40	310	200	160	8	18	138	24	3	158	165	600	F10	70	102	M10	3/8"	22	200	21,4	275	317	
	80S	10-40	310	200	160	8	18	138	24	3	173	180	600	F12	85	125	M12	1/2"	22	300	24,6	417	482	
	100	10-16 25-40	350	220 235	180 190	8	18	158 162	20 24	3	158	165	600	F10	70	102	M10	3/8"	22	200	24,6	197	228	
100S	10-16 25-40	350	220 235	180 190	8	18	158 162	20 24	3	173	180	600	F12	85	125	M12	1/2"	22	300	28,9	582	673		
ASME B 16.5 / 16.10	1/2"	150	108	90	60,3	4	15,7	34,9	10,0	2	88	103	200	F05	35	50	M6	1/4"	11	30	2,7	14	16	
		300	140	95	66,7		14,7	3,8	13															15
	3/4"	150	117	100	69,9	4	15,7	42,9	10,9	2	88	103	200	F05	35	50	M6	1/4"	11	30	3,2	13	16	
		300	152	115	82,5		19,1	16,3	4,3															13
	1"	150	127	110	79,4	4	15,7	50,8	11,6	2	94	109	200	F05	35	50	M6	1/4"	11	30	3,5	24	28	
		300	165	125	88,9		19,1	17,9	4,9															26
	1 1/4"	150	140	115	88,9	4	15,7	63,5	13,2	2	102	117	320	F07	55	70	M8	5/16"	14	70	5,4	46	53	
		300	178	135	98,4		19,1		19,5															8,6
	1 1/2"	150	165	125	98,4	4	15,7	73,0	14,7	2	109	124	320	F07	55	70	M8	5/16"	14	80	7	78	90	
		300	190	155	114,3		22,3		21,1															9,6
	2"	150	178	150	120,7	4	19,1	92,1	16,3	2	139	159	420	F07	55	70	M8	5/16"	19	120	11,8	145	167	
		300	216	165	127,0		8		19,1															22,7
	2 1/2"	150	190	180	139,7	4	19,1	104,8	17,9	2	158	165	600	F10	70	102	M10	3/8"	22	200	15,5	236	273	
300		241	190	149,3	8		22,3		25,9															19,3
3"	150	203	190	152,4	4	19,1	127	19,5	2	158	165	600	F10	70	102	M10	3/8"	22	200	18,2	225	260		
	300	282	210	168,3		8		22,3															29,0	21,4
4"	150	229	230	190,5	8	19,1	157,2	24,3	2	158	165	600	F10	70	102	M10	3/8"	22	200	20,3	169	195		
	300	305	255	200,0		8		22,3															32,2	24,6
4"S	150	229	230	190,5	8	19,1	157,2	24,3	2	173	180	600	F12	85	125	M12	1/2"	22	300	24,6	523	604		
	300	305	255	200,0		8		22,3															32,2	28,9

\* inclusive 100% safety factor for actuators

\*\* US -DESIGN: BOLTINGS / NUTS acc. to ASTM / UNC ANSI B1.1

**Order Example: F-2-ISO-STANDARD DN50-PN40-1.4408**

F = flange, 2 = two-way, ISO-STANDARD= Type,

DN50 = size, PN40 = rating,

1.4408 = body material

