

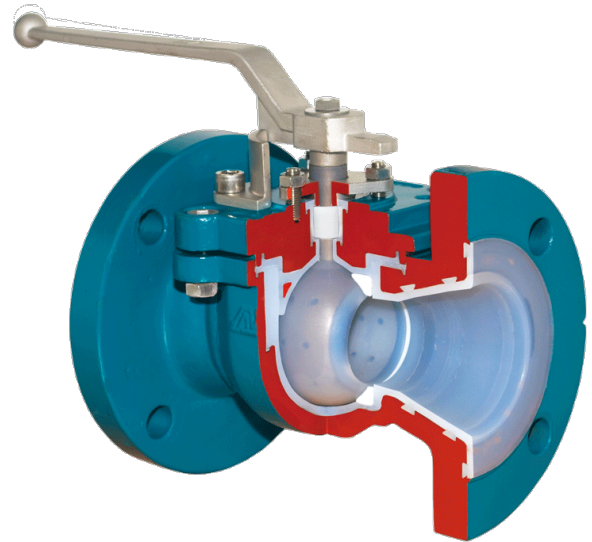
# MONOBLOC

**Two way ball valve with top entry design (one-piece body), with chemical-resistant lining and ISO top flange**

DIN-EN: DN 15 - 100 / PN 10 - 25

ASME: NPS ½" - 8" / class 150

PT range:  $-30 < T < 230^{\circ}\text{C}$



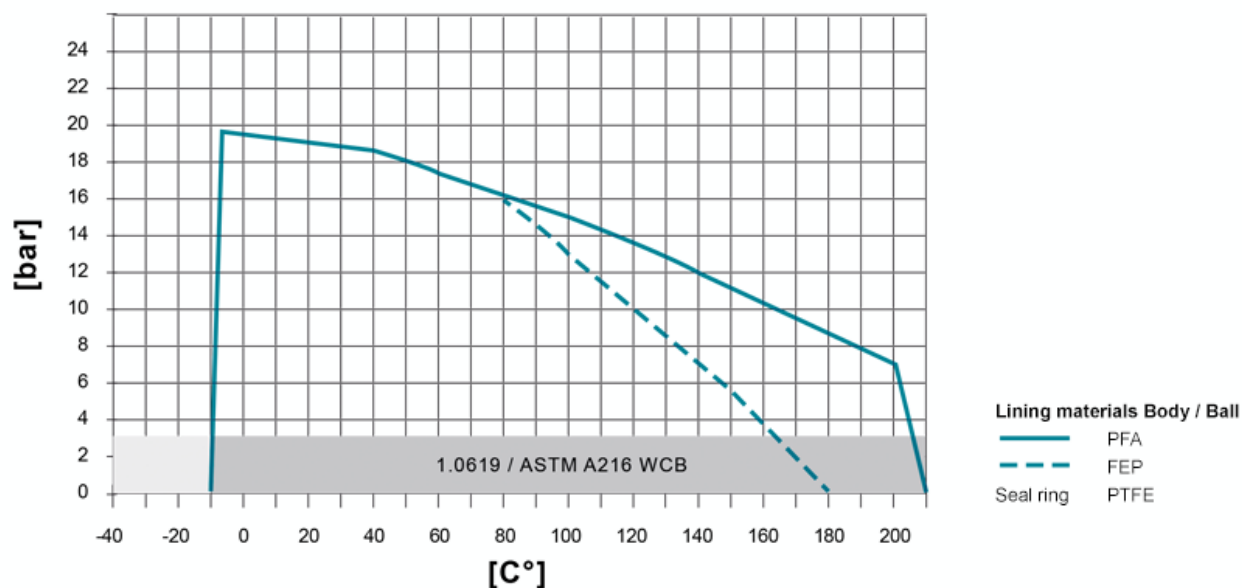
## Design Features

### Design Characteristics

- one-piece body (MONOBLOC) top entry design
- easy replacement of sealings
- integral ball and stem
- anti-blow-out
- with readjustable stuffingbox packing
- cavity minimized
- maintenance free - self lubricating
- mounting-flange for actuators acc. to DIN ISO 5211
- with chemical resistant lining - thickness min. 3 mm
- fugitive emission resp. clean air act certified (TA - Luft 2002 approval)
- Directive 2014/68/EU
- FDA conformity

## PT-Diagram

General Pressure-Temperature-Diagram



The specified values depend on the respective application (medium). Operating temperatures under -20°C only with body material 1.4408 or low-temperature steel. High pressure resistance / temperature resistance on request, e.g. PN 40.

Sleeve: There are different sleeve materials / compounds available.

## Materials

### Standard body materials

- Ductile cast iron ENJS 1049, ASTM Gr 60-40-18 / A395

### Standard plug materials

- Stainless Steel 1.4308, ASTM A351 CF8

### Special materials

- Carbon Steel 1.0619, ASTM A216 WCB
- Stainless Steel 1.4408, ASTM A351 CF8M
- Unalloyed stainless steel casting (low Temp.) 1.1138, LCC/LCB/A352

### Lining materials

- Body: PFA, PFA-conductive, FEP
- Ball: PTFE, PFA, PFA-conductive, FEP
- Seal Ring: PTFE

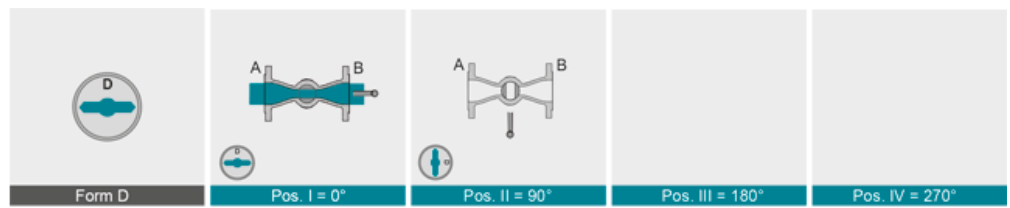
## Sealing Systems

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

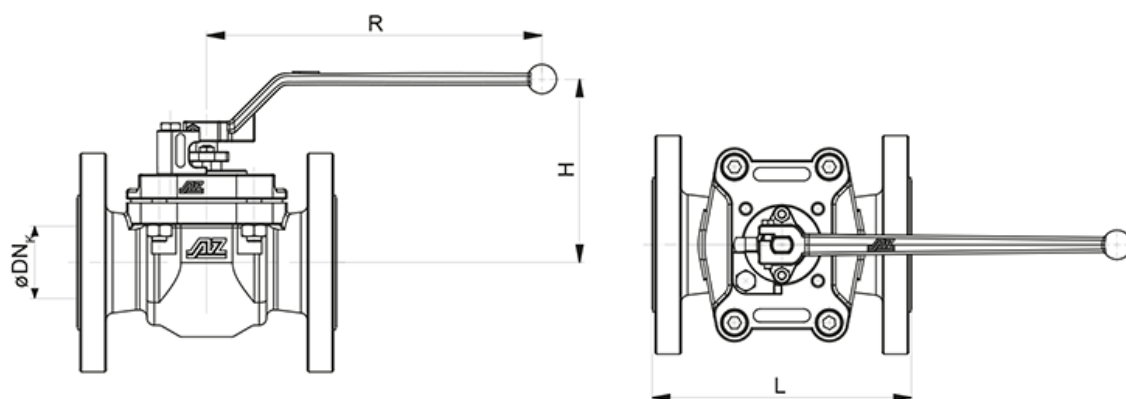
### Type CAS

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## Port Forms



## Dimensions



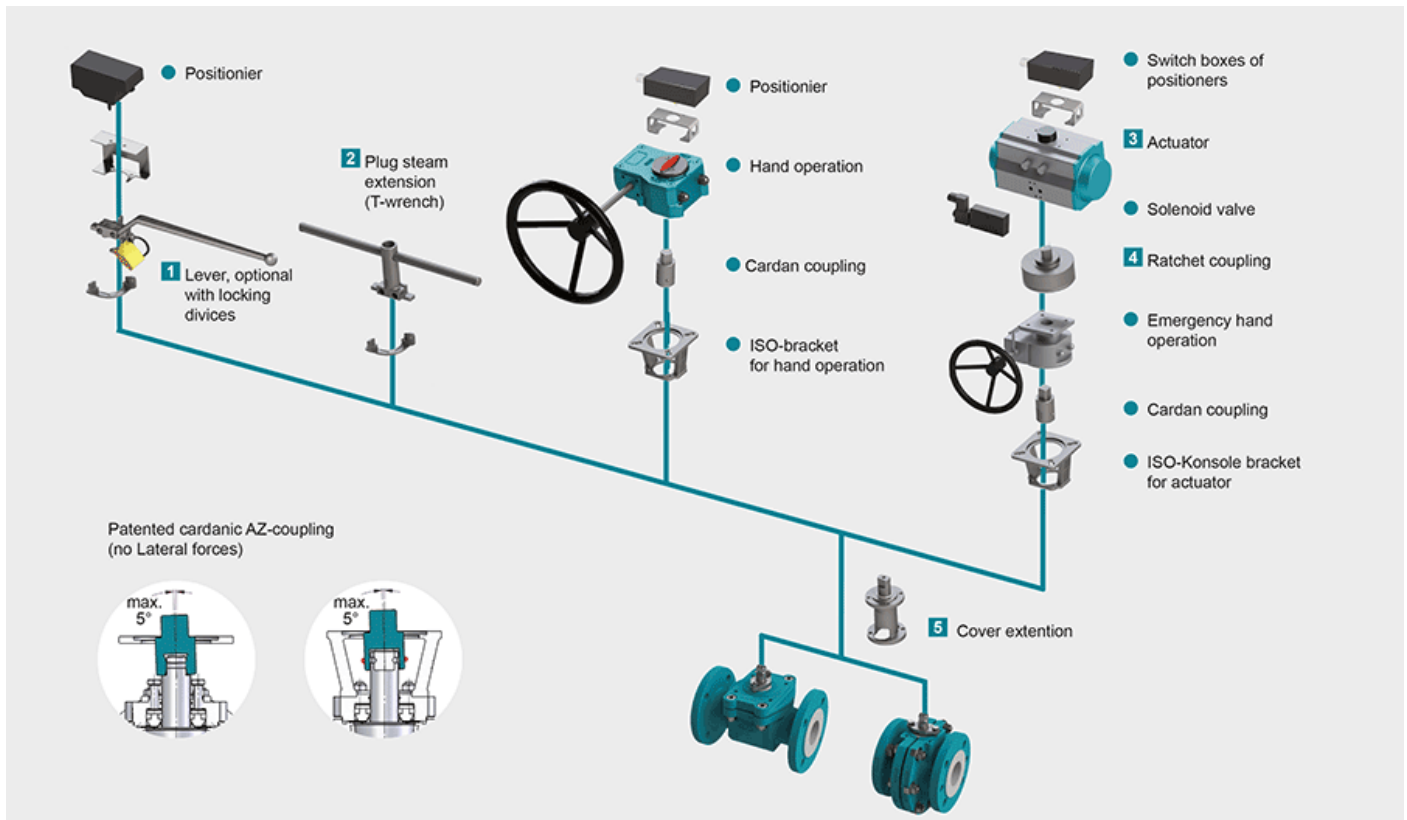
ASME B 16.5 / 16.10 DIN EN 1092/1 / 558-1	DN	ØDN <sub>k</sub>	PN	L	R	H	ISO-5211 flange	dihedron [mm]	torque* [Nm]	weight [kg]
	50	40	10-16	230	170	128	F07	11	45	**
	80	50	10-16	310	230	143	F10	14	50	**
	100	80	10 16	350	320	174	F12	19	120	**
	150	100	10 16	350	420	200	F14	22	120	**
	200	150	10 16	457	530	250	F16	27	160	**
	NPS	ØDN <sub>k</sub>	Class	L	R	H	ISO-5211 flange	dihedron [mm]	torque* [Nm]	weight [kg]
	2"	40	150	178	170	128	F07	11	45	**
	3"	50	150	203	230	143	F10	14	50	**
	4"	80	150	229	320	174	F12	19	120	**
	6"	100	150	267	420	200	F14	22	120	**
8"	150	150	292	530	250	F16	27	160	**	

\* Δp=10bar, recommended safety factor for actuator +40%

\*\* on request

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.  
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### 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  
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NEW: Pneumatic actuator AIR GEAR for plug valves with high torque =150.000 Nm  
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### 4 Ratched coupling

To usw on multiport valves with standard 90° actuator for bigger switchpositions than 90°  
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### 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 \[...\]](#)