

# NEOVAL

## Two way ball and bottom outlet valve with full bore, chemical-resistant lining

DIN-EN: DN 15 – 100 / PN 10 – 25

ASME: NPS ½" – 8" / class 150

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



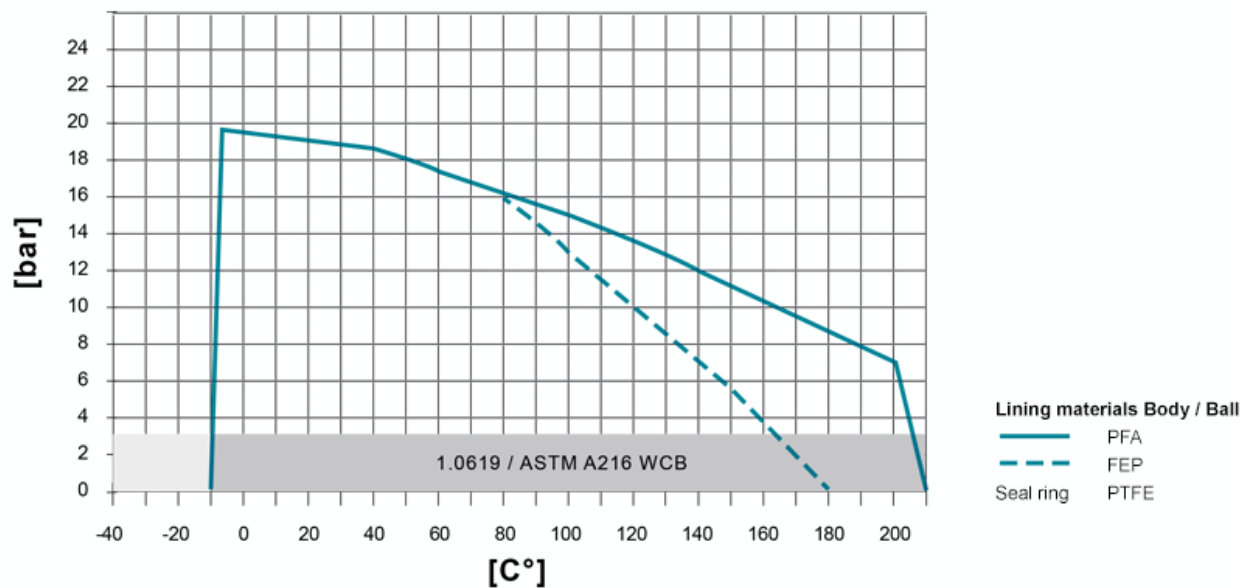
## Design Features

### Design Characteristics

- full bore
- split body
- short pattern
- integral ball and stem
- anti-blow-out
- with readjustable stuffingbox packing
- cavity minimized
- maintenance free – self lubricating
- 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

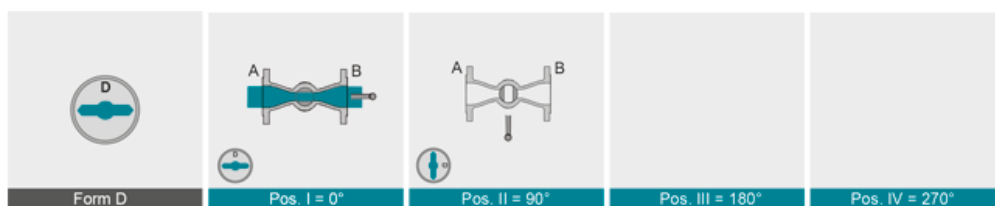
## Sealing Systems

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

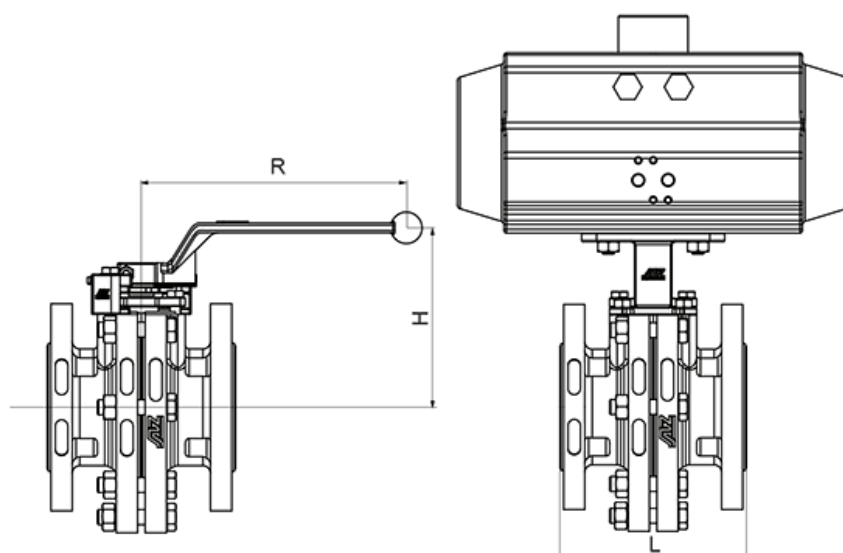
### Type CAS

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## Port Forms



## Dimensions



DIN EN 1092/1 / 588-1	DN	PN	L	R	H	weight [Kg]
	25	10-40	125 <sup>*1)</sup>	200	132	7
	40	10-40	140 <sup>*1)</sup>	320	143	10
	50	10-40	150 <sup>*1)</sup>	420	160	15
	80	10-40	180 <sup>*1)</sup>	600	205	26
	100	10-16	190 <sup>*1)</sup>	600	220	29
	100	25-40	190 <sup>*1)</sup>	600	220	29
	150	10-16	267 <sup>*2)</sup>	Getriebe	<sup>*4)</sup>	<sup>*4)</sup>
	150	25-40	267 <sup>*2)</sup>		<sup>*4)</sup>	<sup>*4)</sup>
	200	10-16	400 <sup>*3)</sup>		<sup>*4)</sup>	<sup>*4)</sup>
ASME B 16.5 / 16.10	NPS	Class	L	R	H	weight [Kg]
	1"	150	125 <sup>*1)</sup>	200	132	7
	1 1/2"	150	140 <sup>*1)</sup>	320	143	10
	2"	150	150 <sup>*1)</sup>	420	160	15
	3"	150	180 <sup>*1)</sup>	600	205	26
	4"	150	190 <sup>*1)</sup>	600	220	29
	6"	150	267 <sup>*2)</sup>	<sup>*4)</sup>	<sup>*4)</sup>	<sup>*4)</sup>
	8"	150	400 <sup>*3)</sup>	<sup>*4)</sup>	<sup>*4)</sup>	<sup>*4)</sup>

\*1) face to face dim. acc. to DIN 3202 Teil1 F4

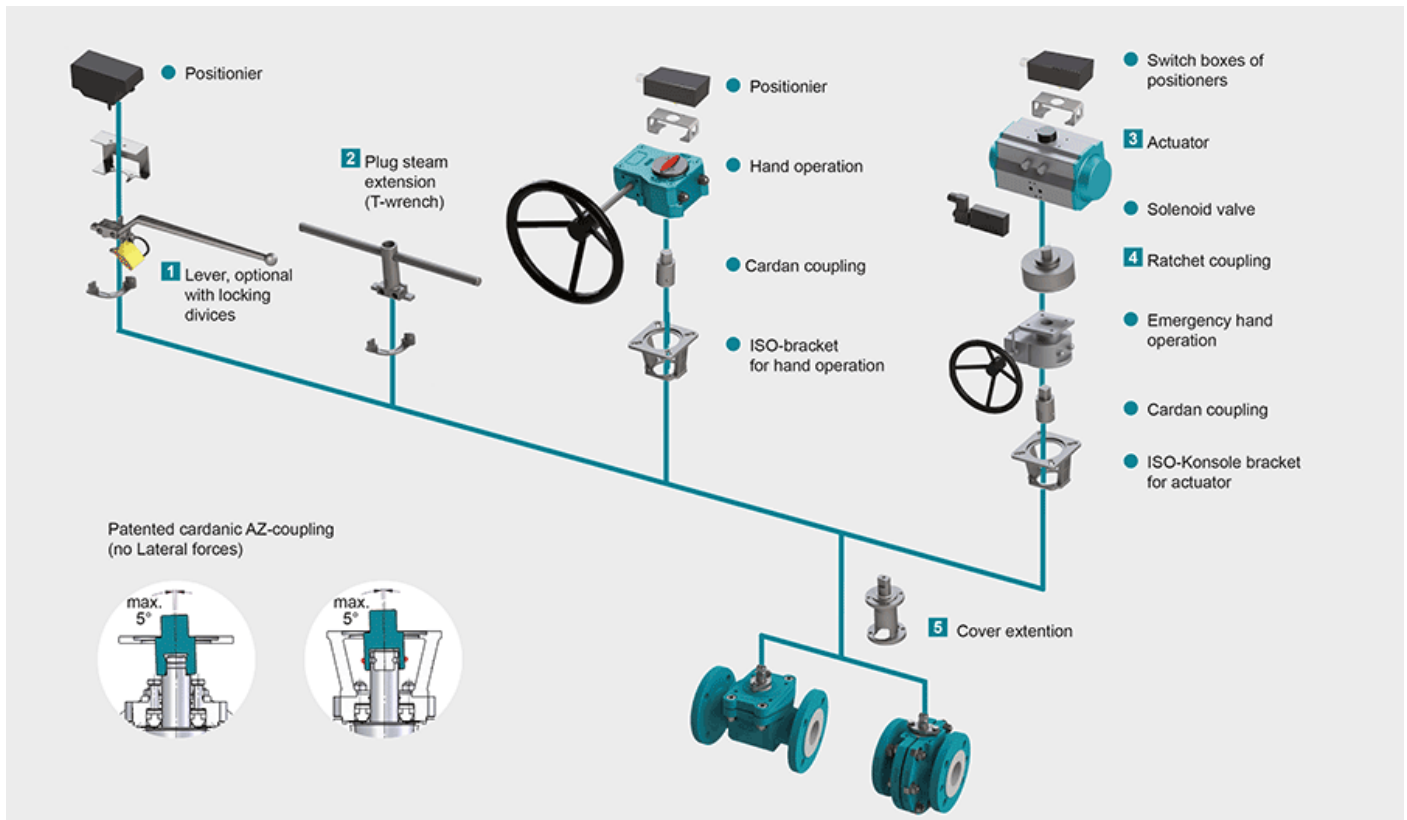
\*2) face to face dim. acc. to ANSI CLASS 150

\*3) face to face dim. acc. to DIN 3202 Teil1 F5

\*4) 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

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## 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

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