NVN

Two way ball valve with full bore, chemical-resistant lining, ISO top flange

DIN-EN: DN 15 - 100 / PN 10 - 25 ASME: NPS $\frac{1}{2}$ " - 8" / class 150 PT range: -30 < T < 230°C



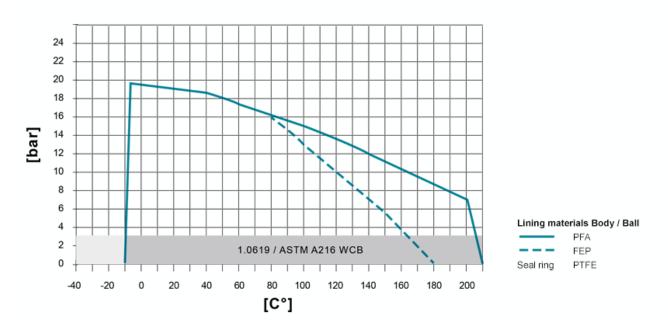
Design Features

Design Characteristics

- full bore
- split body
- 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 emmission 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. Hight 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

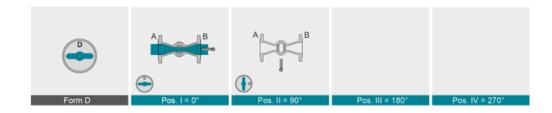
Sealing Systems

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

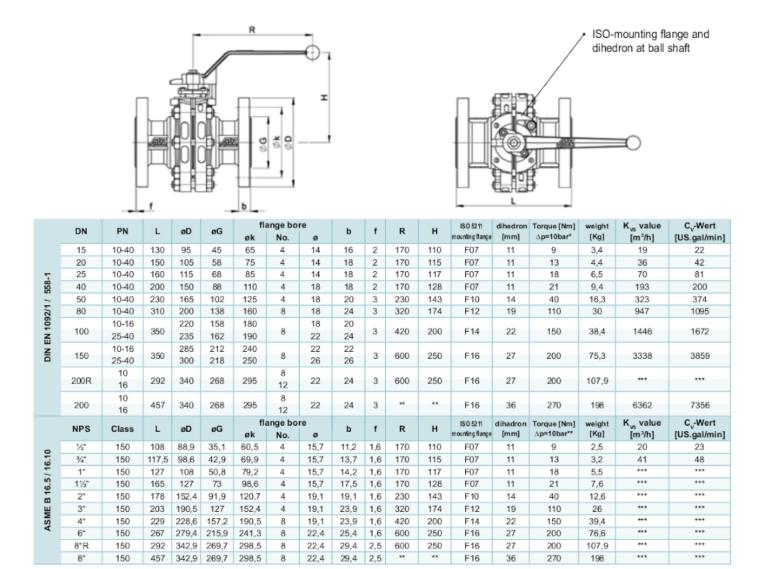
Type CAS

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Port Forms



Dimensions

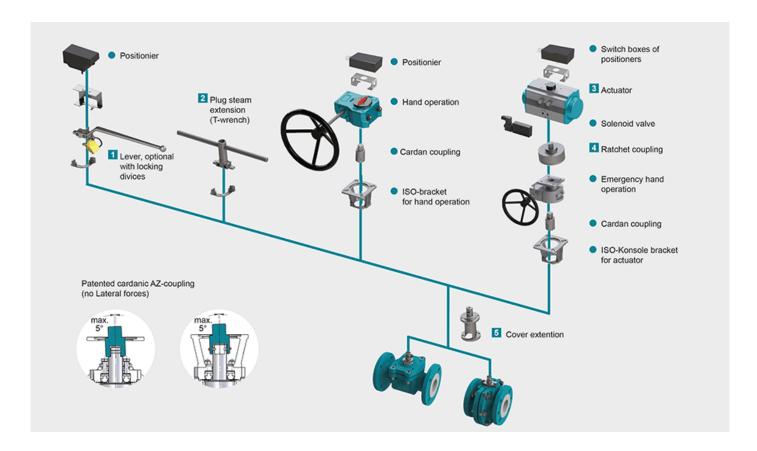


^{*)} $\Delta p=10$ bar, recommended safety factor for actuator: +60 %

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

Actuation

^{**)} on request



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

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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

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