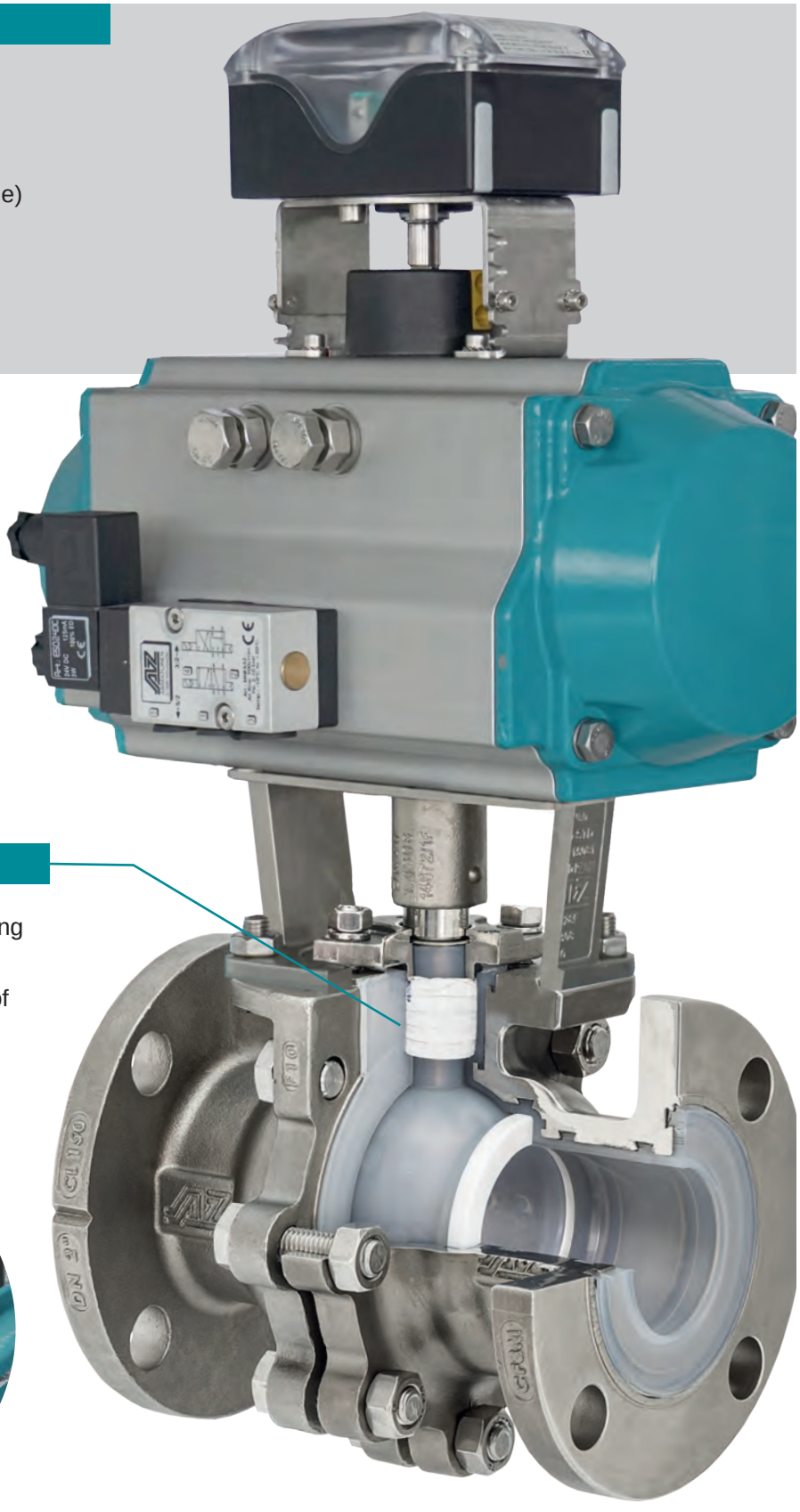
Product range AZ ball valves
Design overview and options

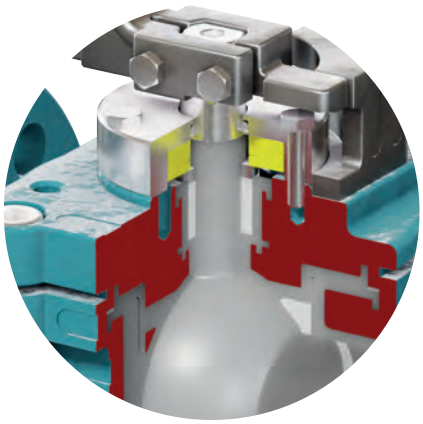
Type NVN-EXTRA

- split body design
- cavity minimized
- full bore design (optional with reduced bore desigen availible)



Sealing systems

- adjustable triple packing (sealing system CAS)
- disc springs for initial tension of packing “live-loaded” (sealing system CAS-SL)



other types

Type NEO-VAL

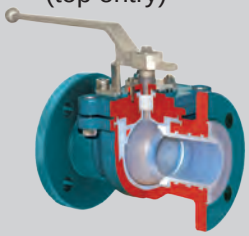
- split body design (short face to face dimensions)

Type KA

- split body design
- vessel bottom outlet valve

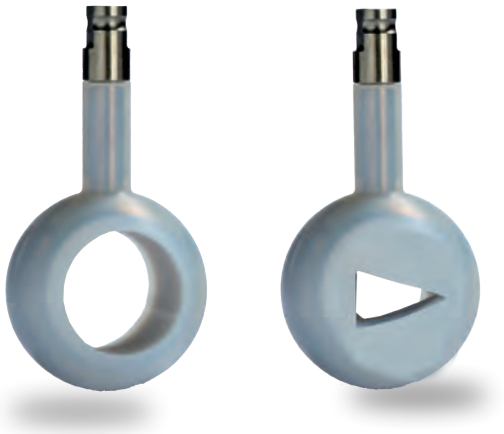
Type Monobloc

- one-piece body design (top entry)



one-piece ball

- anti blow-out design in case of high pressure or disassembly
- no risk of wear and tear between ball and shaft
- no danger for the lining
- constant torque
- optional: precise control with linear or equal percentage characteristics (type RH)
- customized solutions



safe lining

- chemical resistant PFA/FEP lining
- minimum 3mm FEP/PFA lining
- locked in lining
- suitable for toxic and aggressive chemicals

Standard materials

Body:

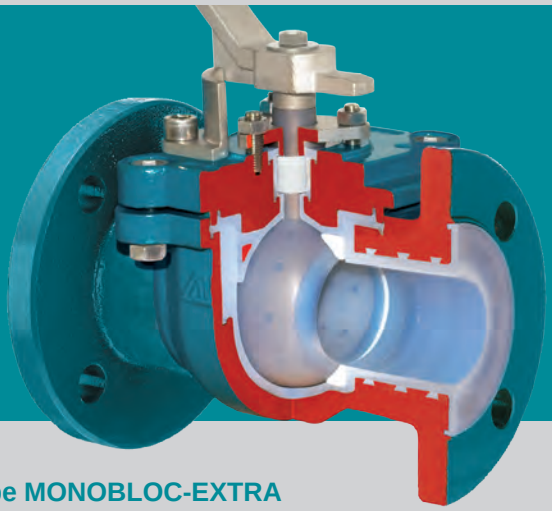
- Stainless Steel 1.4408 / A351/CF8M
- Ductile Iron EN-GJS-400-18 / ASTM A395 (DN ≥ 8")
- Carbon Steel 1.0619 / ASTM A216 WCB

Ball:

- ASTM A995 - CD4MCUN (DN ≤ 4")
- Carbon Steel 1.0619 / ASTM A216 WCB (DN ≥ 6")

Type MONOBLOC / MONOBLOC-EXTRA

Fully lined ball valve, one piece body and ball design



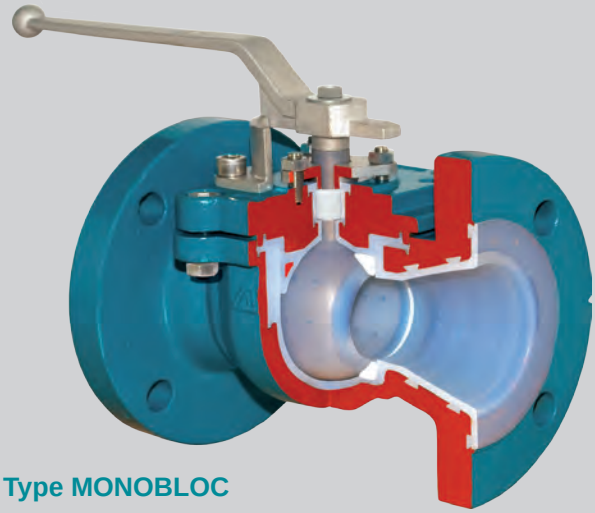
- **one-piece body**
- **one-piece ball**

NPS 1 - 8 / Class 150

Range of application:
14 < T < 302/410°F

Type MONOBLOC-EXTRA

- full bore design
- maxium flow rates - no pressure loss



Type MONOBLOC

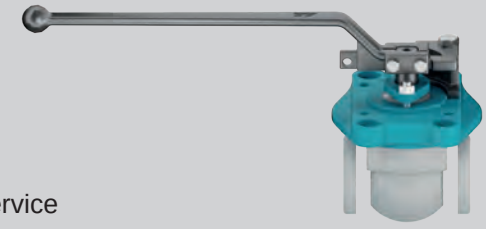
- reduced bore
- less torque = smaller actuation

Design characteristics

- top entry design
- easy inline replacement
- chemical resistance
- adjustable stem packing
- reduced cavity between ball and body
- PFA / FEP lining of body, ball and cover

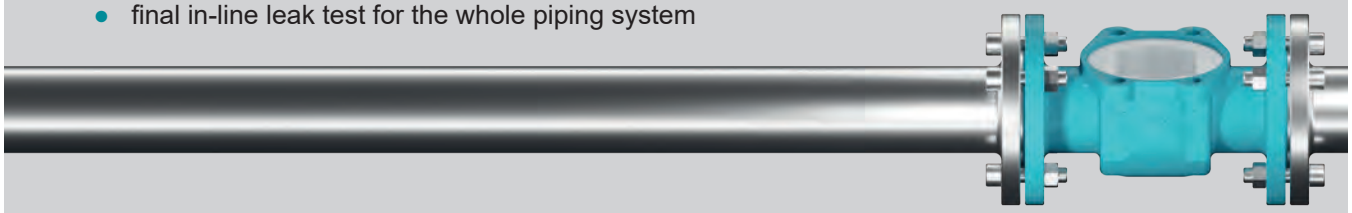
Options

- other materials

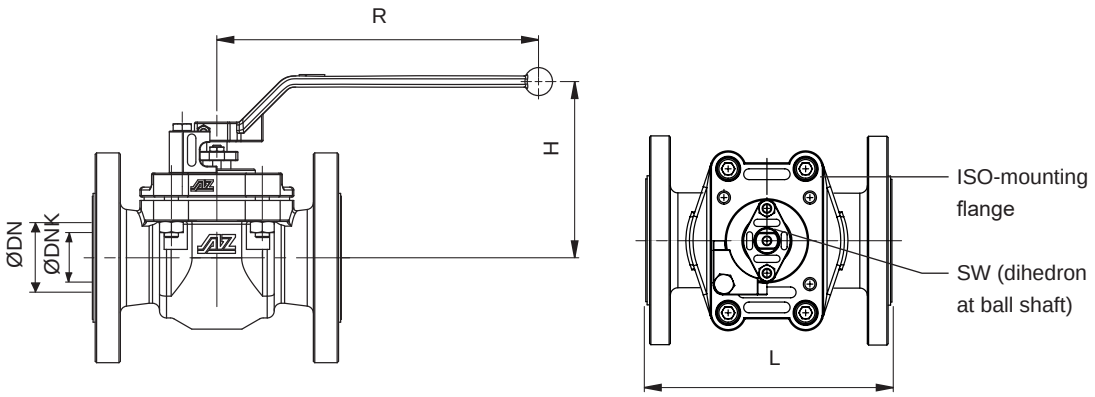


Top entry design

- fast exchange of sealings and ball with repair kit
- no disassembling of the complete valve in case of service
- flange sealings remain
- final in-line leak test for the whole piping system



Type MONOBLOC / MONOBLOC-EXTRA
Technical information



Type MONOBLOC-EXTRA

ASME B16.10

NPS	Class	L [mm] [Inch]	R [mm] [Inch]	H [mm] [Inch]	ISO-5211 flange	SW [mm] [Inch]	torque* [Nm] [ft lb]	weight [kg] [lb]	K_{VS} value [m³/h]	C_V value [US.gal/min]
1	150	160 6.30	230 9.06	119 4.69	F07	11 0.433	45 33	**	70	81
1½	150	200 7.87	230 9.06	126 4.96	F07	11 0.433	45 33	**	193	223
2	150	230 9.06	320 12.20	143 5.63	F10	14 0.551	50 37	**	323	374
3	150	310 12.20	600 23.62	199 7.84	F12	22 0.866	120 89	**	947	1095
4	150	350 13.78	600 23.62	202 7.95	F14	22 0.866	120 89	**	1446	1672
6	150	350 13.78	600 23.62	227 8.94	F16	27 1.063	160 118	**	3338	3859
8	150	400 15.75	600 23.62	277 8.94	F16	27 1.063	270 199	**	6362	7356

Type MONOBLOC

ASME B16.10

NPS	ØDNK [mm] [Inch]	Class	L [mm] [Inch]	R [mm] [Inch]	H [mm] [Inch]	ISO-5211 flange	SW [mm] [Inch]	torque* [Nm] [ft lb]	K_{VS} value [m³/h]	C_V value [US.gal/min]
2	40 1.57	150	178 7.00	170 6.69	128 5.04	F07	11 0.433	45 33	**	**
3	50 1.97	150	203 8.00	230 9.06	143 5.63	F10	14 0.551	50 37	**	**
4	80 3.15	150	229 9.00	320 12.60	174 6.85	F12	19 0.748	120 89	**	**
6	100 3.94	150	267 10.50	420 16.54	200 7.87	F14	22 0.866	120 89	**	**
8	150 5.91	150	292 11.50	530 20.87	250 9.84	F16	27 1.063	160 118	**	**

*) Δp=10 bar, manufacturer recommended sizing torque (incl. 40% safety)

**) on request

Some designs, sizes and/or configurations may be fitted with threaded flange holes.