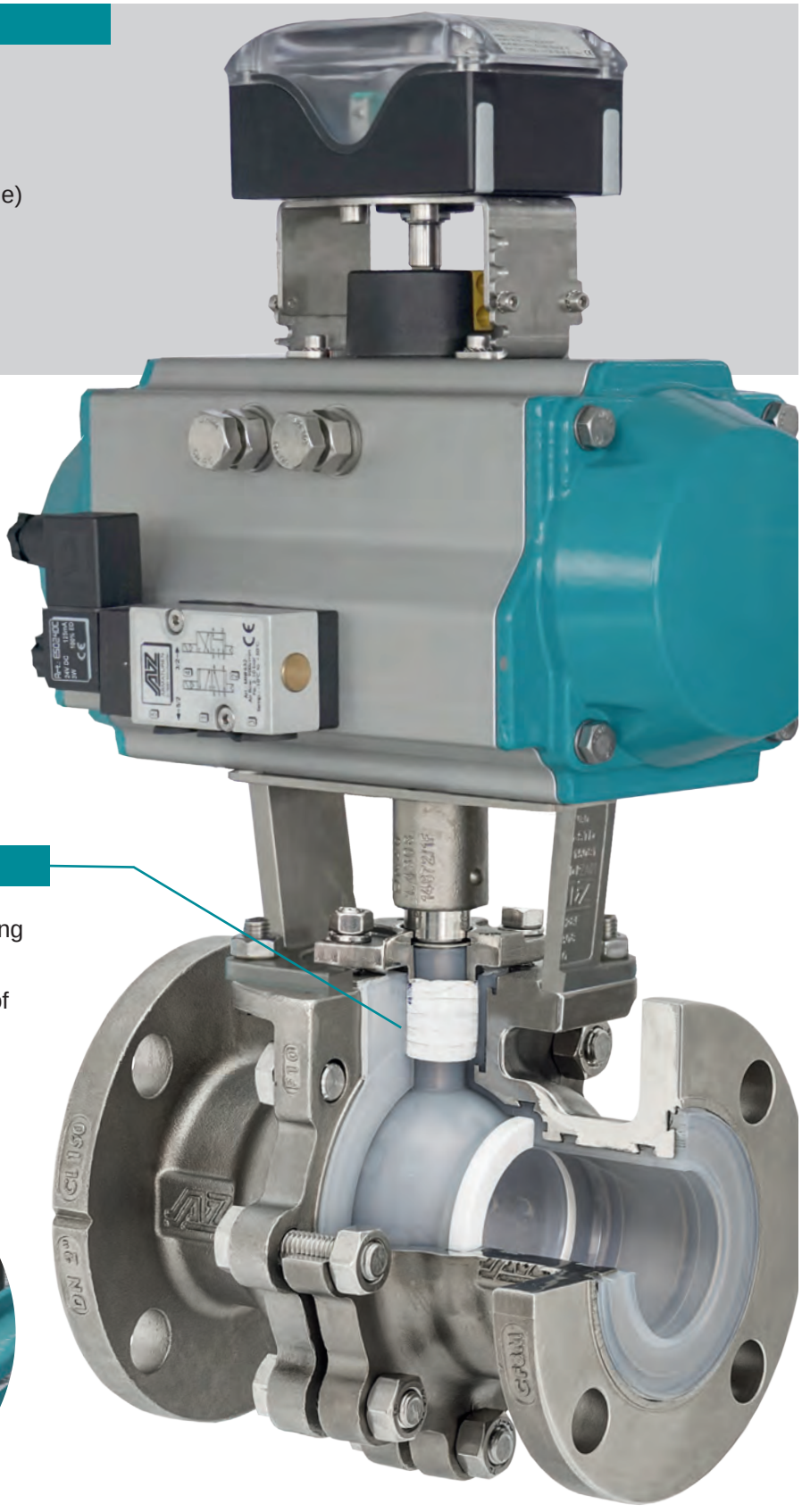
Product range AZ ball valves
Design overview and options

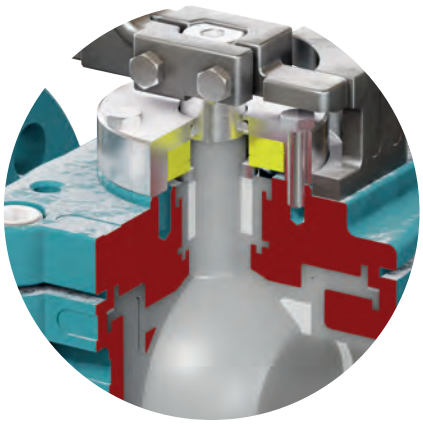
Type NVN-EXTRA

- 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

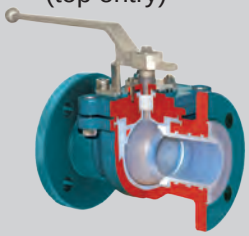
- split body design (short face to face dimensions)

Type KA

- split body design
- vessel bottom outlet valve

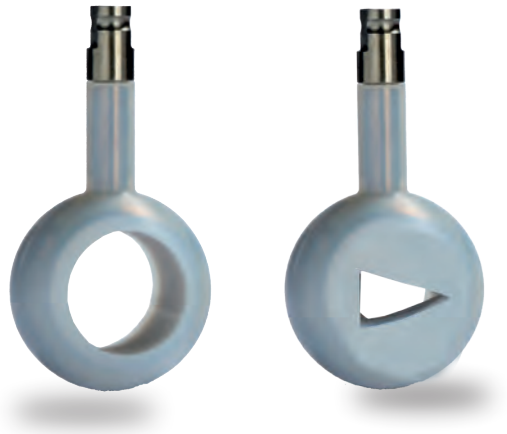
Type Monobloc

- 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 KA
Lined bottom outlet valve

- **self-lubricating and maintenance-free**
- **cavity minimized**
- **short pattern**

NPS ½ - 8 / Class 150

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

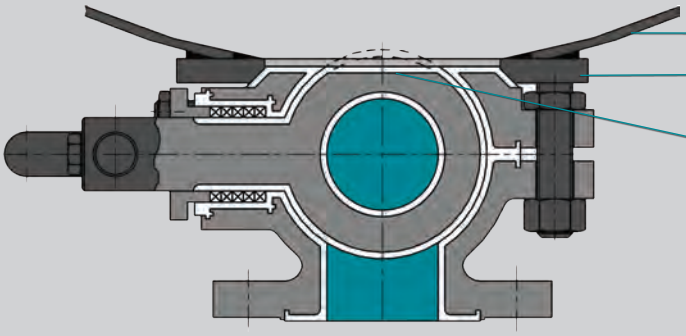
Design characteristics

- vacuum-capable
- completely PFA / FEP lined
- high corrosion-resistance of aggressive media
- full bore design
- conditioned by the design, no remaining quantity of crystalline or polymeric media remains in the vessel
- body material Carbon Steel 1.0619, ASTM A216 WCB

Options

- flattened ball design "F"
- other materials

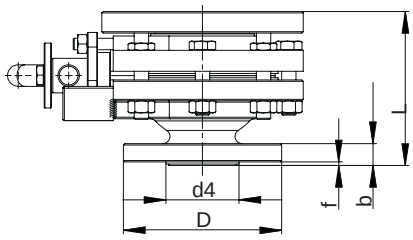
PT diagram, plug types, sealing systems, material selection: see catalog part ENGINEERING

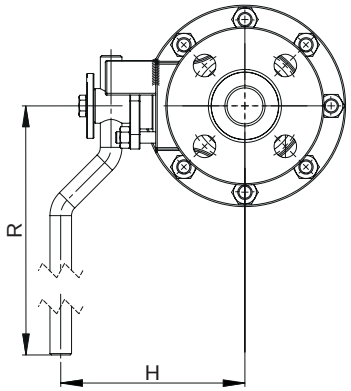


- vessel
- mounting flange (welded)

- Ball designs
  R = round ball (standard)
  F = flattened ball
  (to get a plane surface in the vessel)

Type KA
Technical information





	NPS	Class	D [mm] [Inch]	flange holes øk [mm] øk [Inch]	No.	ø [mm] ø [Inch]	b [mm] [Inch]	f [mm] [Inch]	d4 [mm] [Inch]	L [mm] [Inch]	R [mm] [Inch]	H [mm] [Inch]	weight [kg] [lb]
ASME B16.10	1	150	140 5.51	79,2 3.12	4	15,7 0.62	14,2 0.56	1,6 0.63	50,8 2.00	87,5 1) 3.44 1)	200 7.87	132 5.20	*
	1½	150	180 7.09	98,6 3.88	4	15,7 0.62	17,5 0.69	1,6 0.63	73,2 2.88	110 *1) 4.33 1)	320 12.60	143 5.63	*
	2	150	195 7.68	120,7 4.75	4	19,1 0.75	19,1 0.75	1,6 0.63	91,9 3.62	122 *1) 4.80 1)	420 16.54	160 6.30	*
	3	150	220 8.66	152,4 6.00	4	19,1 0.75	23,9 0.94	1,6 0.63	127 5.00	142 *1) 5.59 1)	600 23.62	205 8.07	*
	4	150	250 9.84	190,5 7.50	8	19,1 0.75	23,9 0.94	1,6 0.63	157,2 6.19	160 *1) 6.30 1)	600 23.62	220 8.66	*
	6	150	360 14.17	241,3 9.50	8	22,4 0.88	25,4 1.00	1,6 0.63	215,9 8.50	*4)	*4)	*4)	*

*) on request

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