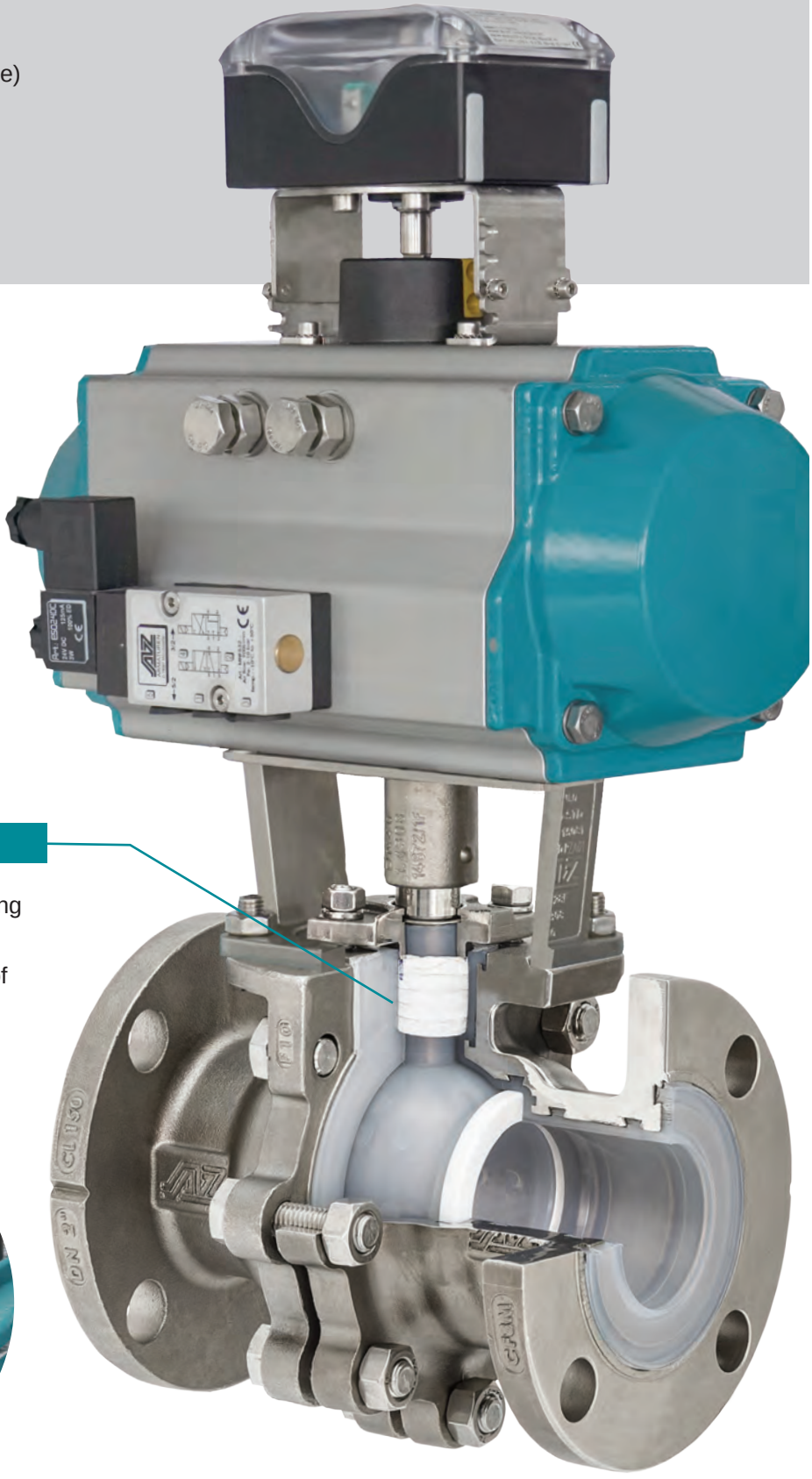
Product range AZ ball valves
Design overview and options

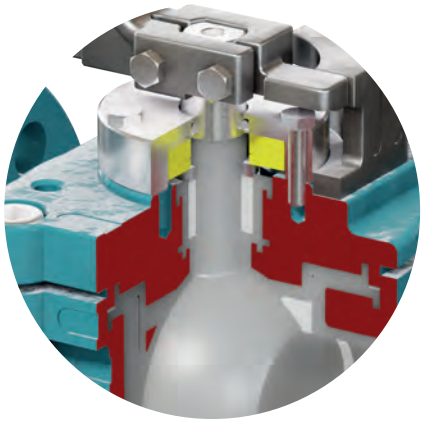
Type NVN-EXTRA

- 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

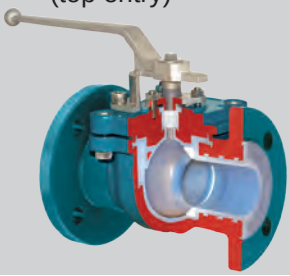
- split body design (short face to face dimensions)

Type KA

- split body design
- vessel bottom outlet valve

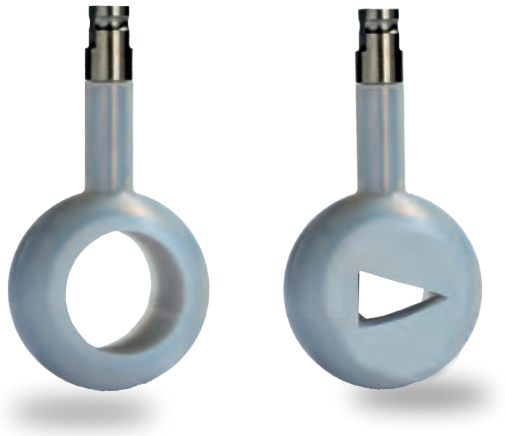
Type Monobloc

- 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 NEO-VAL

Lined ball valve, short pattern design

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

DN 15 - 200 / PN 10 - 25
NPS ½ - 8 / Class 150

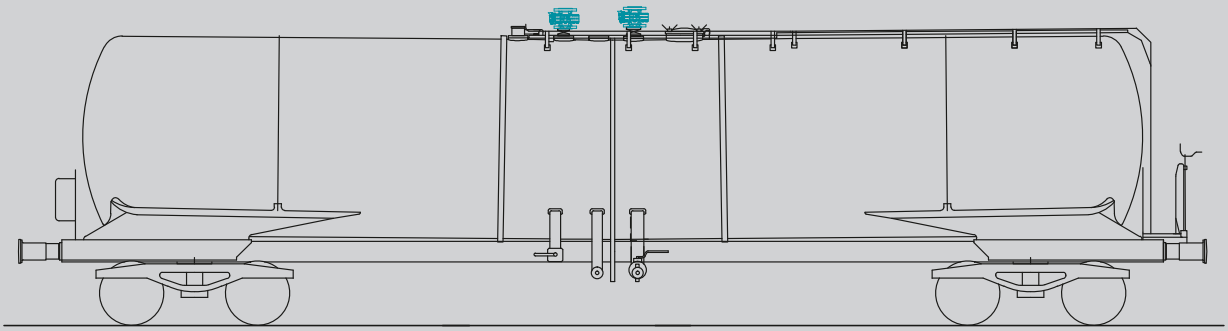
Range of application:
-10 < T < 150/210°C

Design characteristics

- vacuum-capable
- PFA / FEP lining
- high corrosion-resistance of aggressive media
- full bore design
- short face to face dimension
- suitable for vessels with toxic and aggressive media
- certified acc. to EN 14432 / ADR/ ROD 2017 / GGVSEB

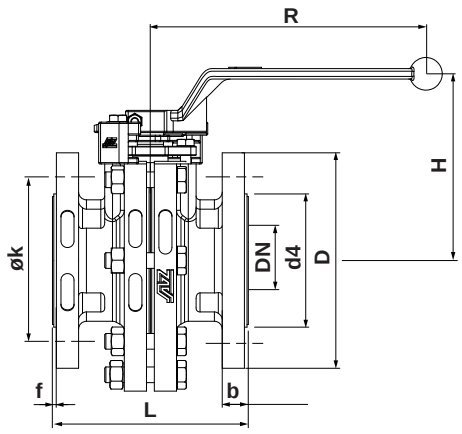
Options

- other materials



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

Type NEO-VAL
Technical Information



	DN	PN	D	flange holes			b	f	d4	L	R	H	weight
			[mm]	øk [mm]	No.	ø [mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
DIN EN 1092-1 / 558	25	10-40	115	85	4	14	18	2	68	125 *1)	200	132	7
	40	10-40	150	110	4	18	18	2	88	140 *1)	320	143	10
	50	10-40	165	125	4	18	20	3	102	150 *1)	420	160	15
	80	10-40	200	160	6	18	24	3	138	180 *1)	600	205	26
	100	10-16	220	180	8	18	20	3	158	190 *1)	600	220	29
		25-40	235	190	8	22	24	3	162	190 *1)	600	220	29
	150	10-16	285	240	8	22	22	3	212	267 *2)		*4)	*4)
		25-40	300	250	8	26	28	3	218	267 *2)		*4)	*4)
	200	10-16	340	295	8/12	22	24	3	268	400 *3)		*4)	*4)
		25	360	310	12	26	30	3	278	400 *3)		*4)	*4)
	300	10	445	400	12	22	26	4	370	500 *3)		*4)	*4)
		16	460	410	12	22	28	4	378			*4)	*4)
	NPS	Class	D	flange holes			b	f	d4	L	R	H	weight
			[mm]	øk [mm]	No.	ø [mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
ASME B16.5 / 16.10	1	150	108	79,2	4	15,7	14,2	1,6	50,8	125 *1)	200	132	7
	1½	150	127	98,6	4	15,7	17,5	1,6	73,2	140 *1)	320	143	10
	2	150	152,5	120,7	4	19,1	19,1	1,6	91,9	150 *1)	420	160	15
	3	150	190,5	152,4	4	19,1	23,9	1,6	127	180 *1)	600	205	26
	4	150	228,6	190,5	8	19,1	23,9	1,6	157,2	190 *1)	600	220	29
	6	150	279,4	241,3	8	22,4	25,4	1,6	215,9	267 *2)	*4)	*4)	*4)
	8	150	324,9	298,5	8	22,4	28,4	1,6	269,7	400 *3)	*4)	*4)	*4)

*1) acc. to DIN EN 558

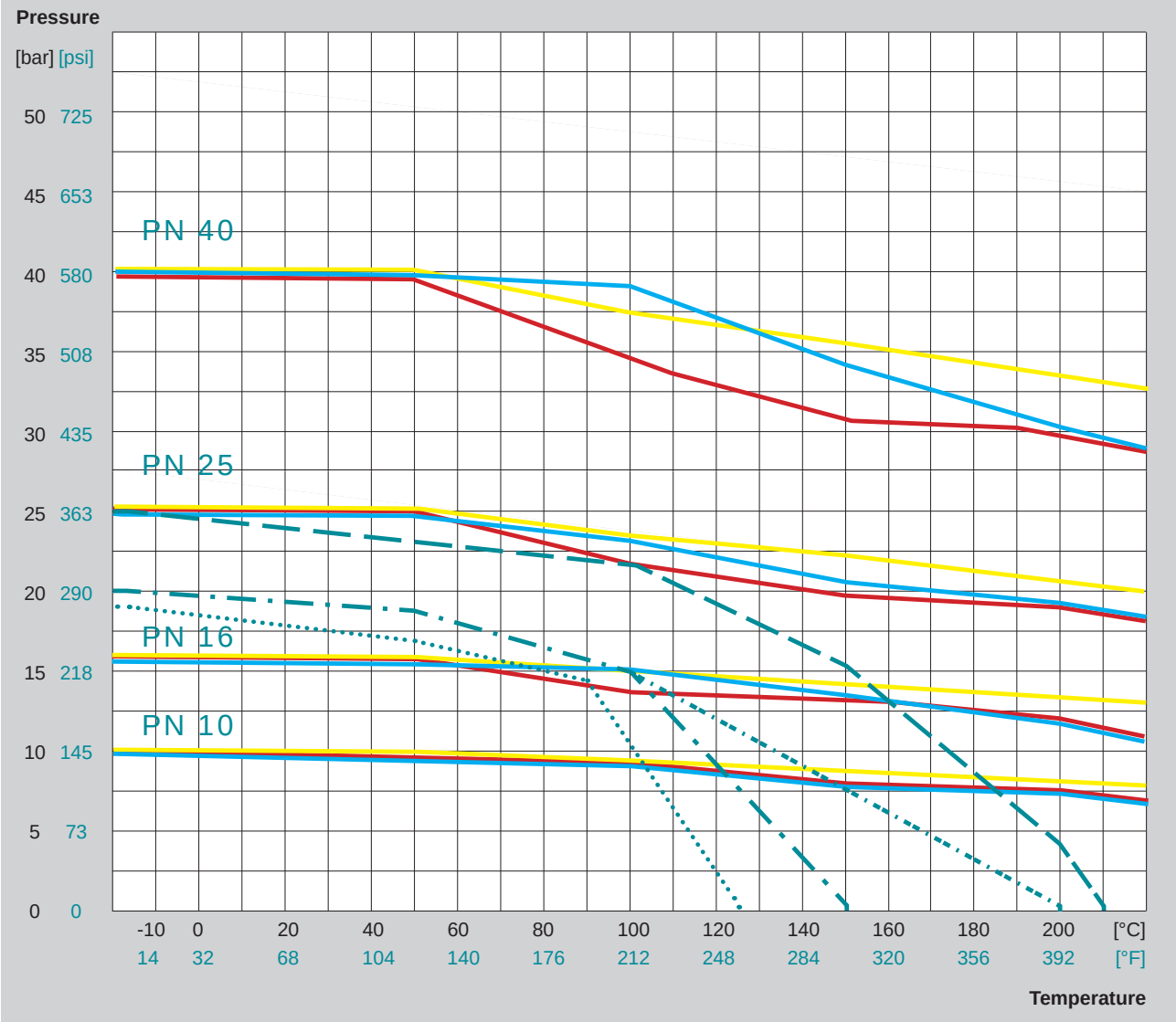
*2) acc. to ANSI CLASS 150

*3) acc. to DIN EN 558

*4) on request

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

PT Diagram, PN 10 - PN 40
lined valves



Body material

EN 10213 - 1.0619 / Carbon Steel
EN 10213 - 1.4408 / Stainless Steel
EN 1563 - EN-GJS-400-18-LT / Ductile Iron
other body materials on request

Lining combination

	Body	Plug / Ball	T_{MAX}
– –	PFA	PTFE or special*	210°C / 410°F
– · –	PFA	PFA	200°C / 392°F
– · · –	all combinations with PFA and FEP		150°C / 302°F
· · · · ·	PFA conductive	PFA conductive**	125°C / 257°F

*) Special materials (metallic) for plugs without lining on request
**) Material combination PFA / FEP possible

Maximum breakaway torque depending on material combinations according to the technical data sheets of the plug valve.

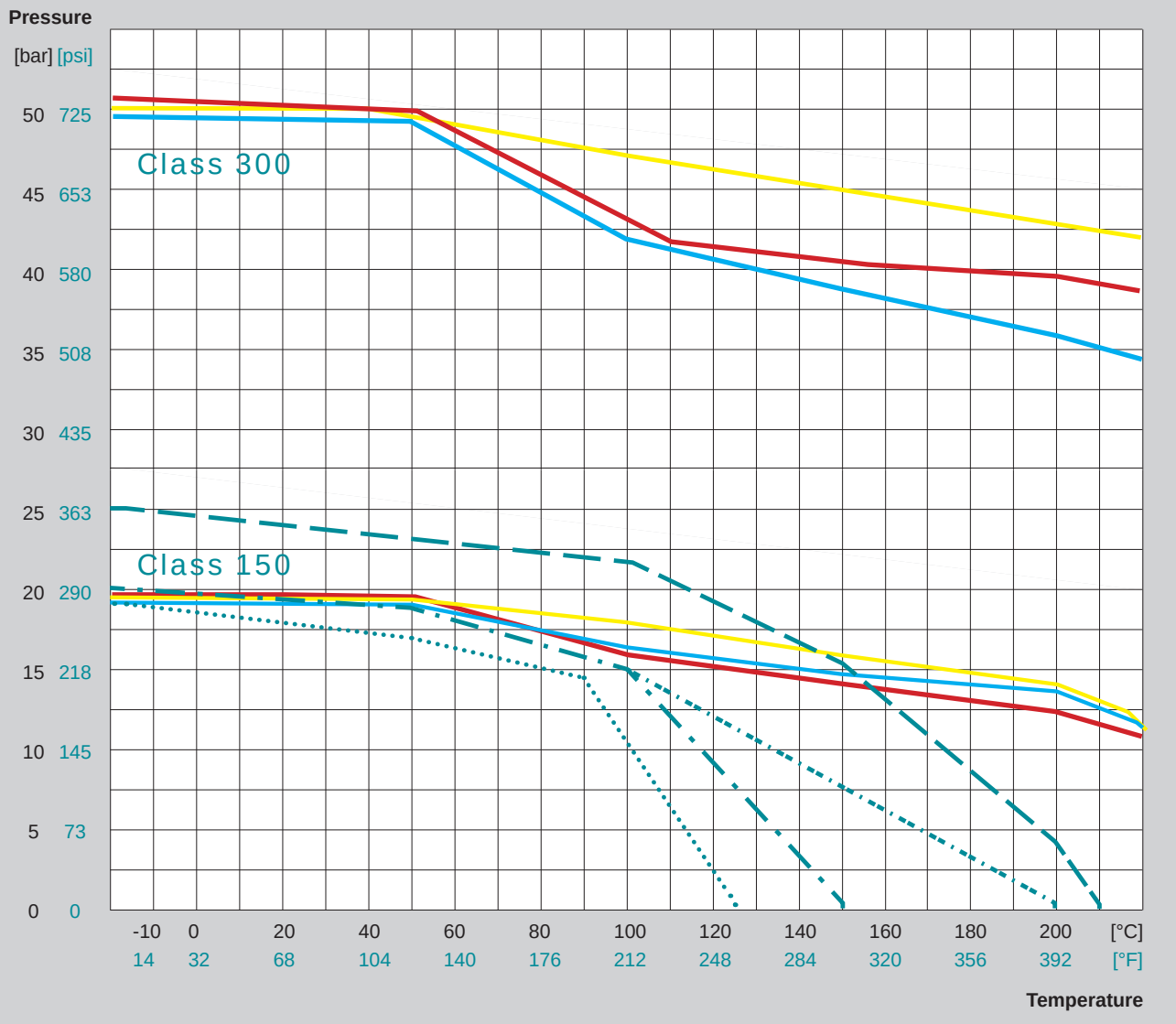
Subject to technical change without notice.

The data given are max. values according to EN 12516-4.

IMPORTANT NOTE

for demanding conditions, such as process temperatures exceeding 150°C / 302°F: Valve size, media phase, plug position & temperature (constant or fluctuating) may have an impact on the lifetime. Consult factory for proper selection of lining material, cover sealing type and special features.

PT Diagramm, Class 150 - Class 300 lined valves



Body material

- ASTM A216 - WCB
- ASTM A351 - CF8M / Stainless Steel
- ASTM A395 / Ductile Iron

other body materials on request

Lining combination

	Body	Plug / Ball	T_{MAX}
— —	PFA	PTFE or special*	210°C / 410°F
— · —	PFA	PFA	200°C / 392°F
— · —	all combinations with PFA and FEP		150°C / 302°F
·····	PFA conductive	PFA conductive**	125°C / 257°F

*) Special materials (metallic) for plugs without lining on request

**) Material combination PFA / FEP possible

Maximum breakaway torque depending on material combinations according to the technical data sheets of the plug valve.

Subject to technical change without notice.

The data given are max. values according to EN 12516-4.

IMPORTANT NOTE

for demanding conditions, such as process temperatures exceeding 150°C / 302°F: Valve size, media phase, plug position & temperature (constant or fluctuating) may have an impact on the lifetime. Consult factory for proper selection of lining material, cover sealing type and special features.

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