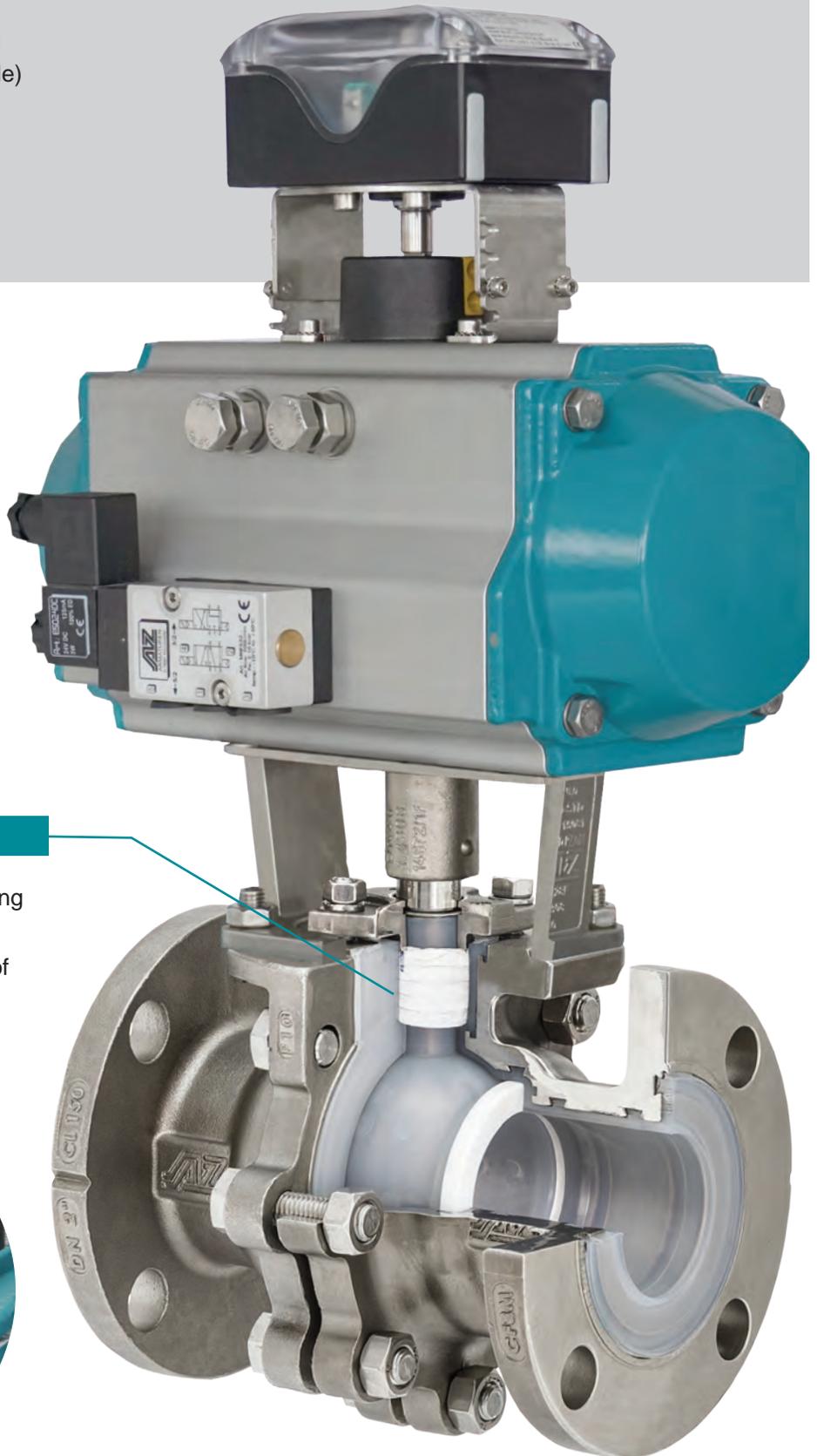


Product range AZ ball valves

Design overview and options

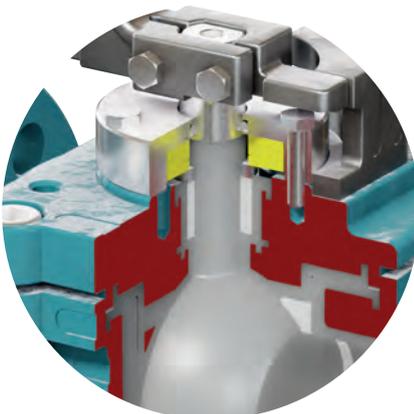
Type NVN-EXTRA

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



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)



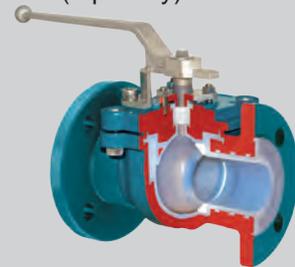
Type KA

- 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 \geq 8")
- Carbon Steel 1.0619 / ASTM A216 WCB

Ball:

- ASTM A995 - CD4MCUN (DN \leq 4")
- Carbon Steel 1.0619 / ASTM A216 WCB (DN \geq 6")

Type KA

Lined bottom outlet valve



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

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

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

Design characteristics

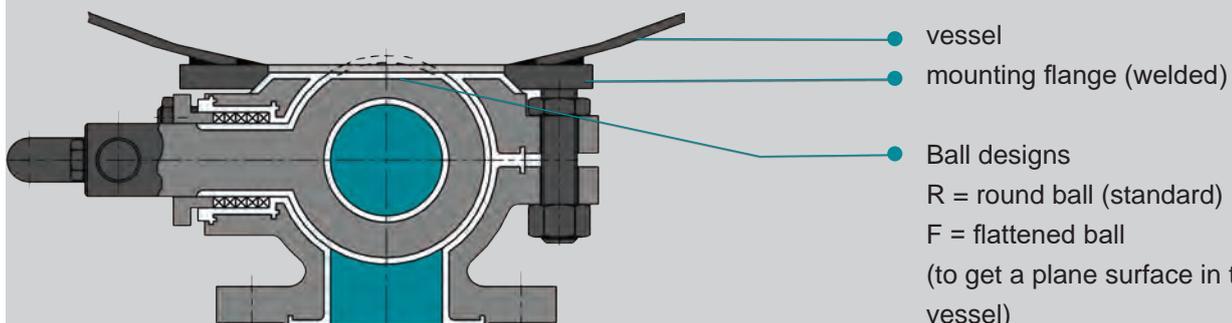
- vacuum-capable
- completely PFA / FEP lined
- high corrosion-resistance of aggressive media
- full bore design
- conditioned by the design, no remaining quantity of crystalline or polymeric media remains in the vessel
- body material Carbon Steel 1.0619, ASTM A216 WCB

Options

- flattened ball design "F"
- other materials



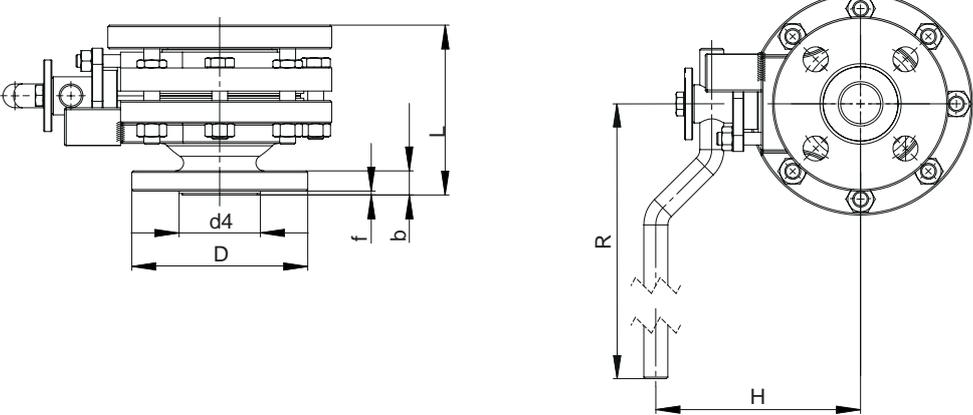
PT diagram, plug types, sealing systems, material selection: see catalogue part ENGINEERING



- 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

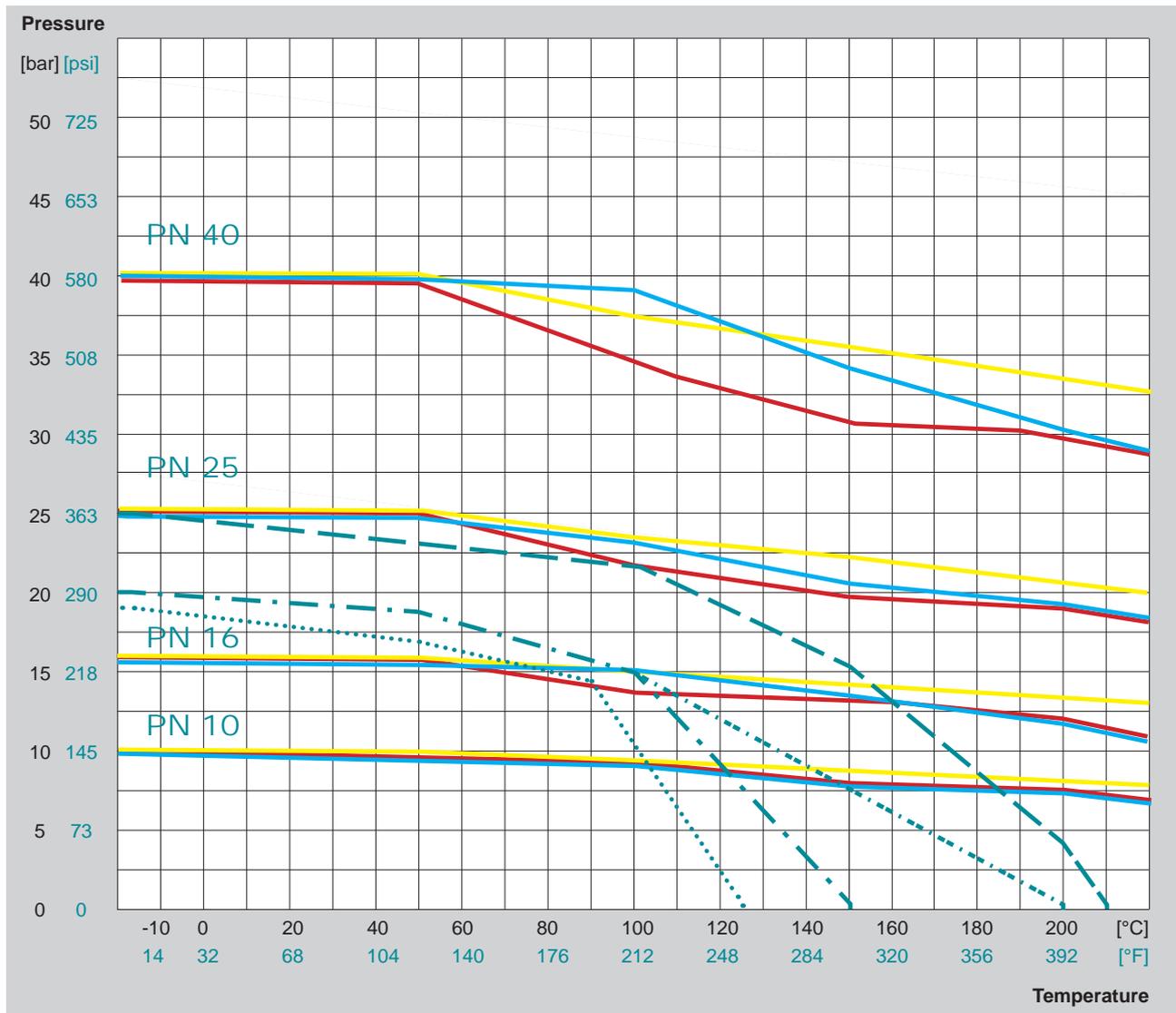


	DN	PN	D [mm]	flange holes		b [mm]	f [mm]	d4 [mm]	L [mm]	R [mm]	H [mm]	weight [kg]	
				øk [mm]	No.								ø [mm]
EN 588	25	10-40	140	120	4	14	18	2	78	87,5 ^{*)}	150	132	*
	40	10-40	180	140	4	18	18	2	90	110 ^{*)}	250	143	*
	50	10-40	195	155	4	18	20	3	106	122 ^{*)}	250	160	*
	80	10-40	220	195	4	18	24	3	140	142 ^{*)}	300	205	*
	100	10-40	250	230	8	18	20	3	140	160 ^{*)}	350	220	*
	150	10-16	360	310	8	22	22	3	*4)	*4)		*4)	*
ASME B16.10	NPS	Class	D [mm]	øk [mm]	No.	ø [mm]	b [mm]	f [mm]	d4 [mm]	L [mm]	R [mm]	H [mm]	weight [kg]
	1	150	140	79,2	4	15,7	14,2	1,6	50,8	87,5 ^{*)}	200	132	*
	1½	150	180	98,6	4	15,7	17,5	1,6	73,2	110 ^{*)}	320	143	*
	2	150	195	120,7	4	19,1	19,1	1,6	91,9	122 ^{*)}	420	160	*
	3	150	220	152,4	4	19,1	23,9	1,6	127	142 ^{*)}	600	205	*
	4	150	250	190,5	8	19,1	23,9	1,6	157,2	160 ^{*)}	600	220	*
	6	150	360	241,3	8	22,4	25,4	1,6	215,9	*4)	*4)	*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

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

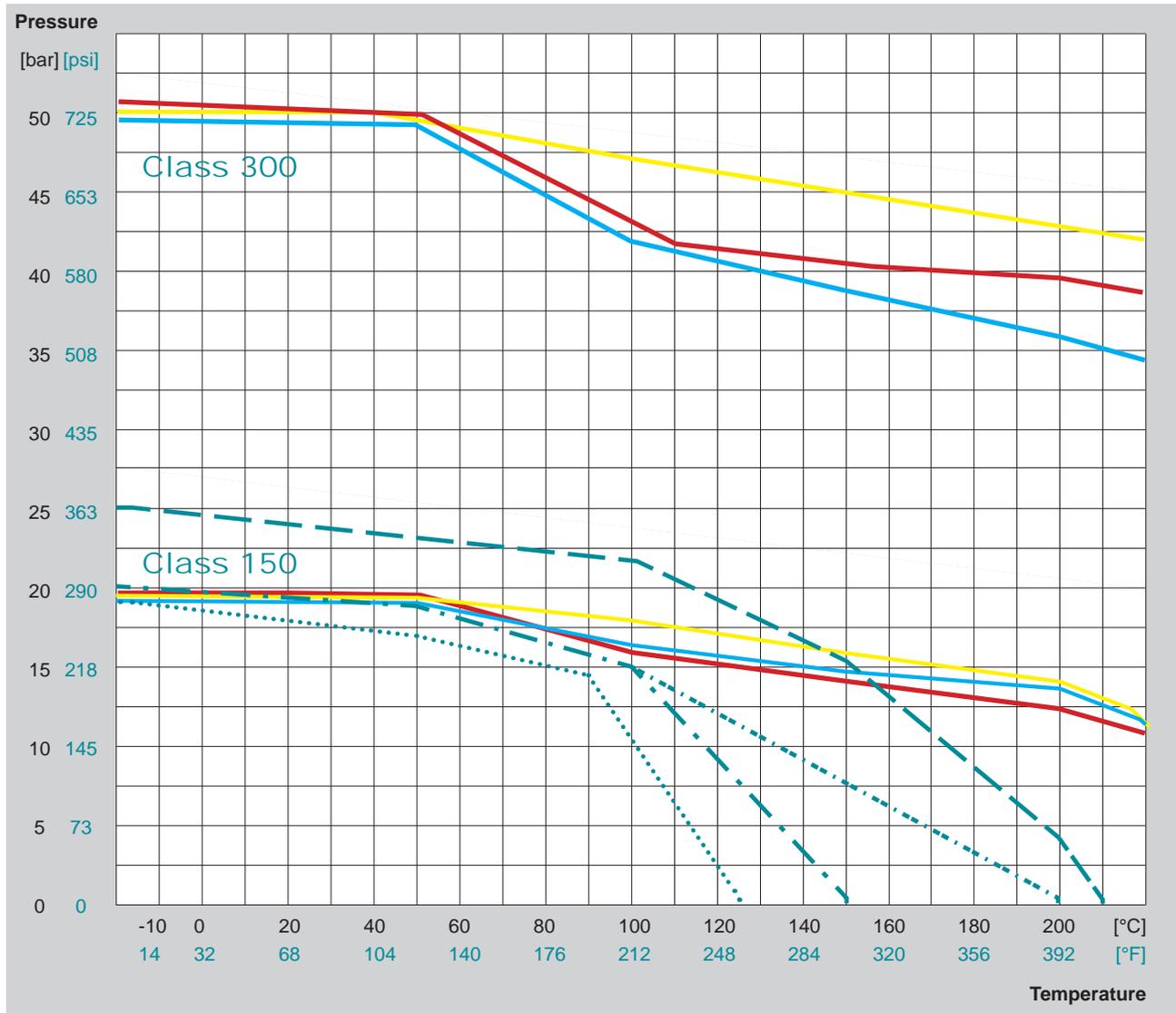
IMPORTANT NOTE

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.

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

Subject to technical change without notice.

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

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.

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

Subject to technical change without notice.



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- Thailand (Rayong)
- Vietnam (Hanoi)

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