

Продувочные клапаны PD25, DN 50-65

Технические характеристики

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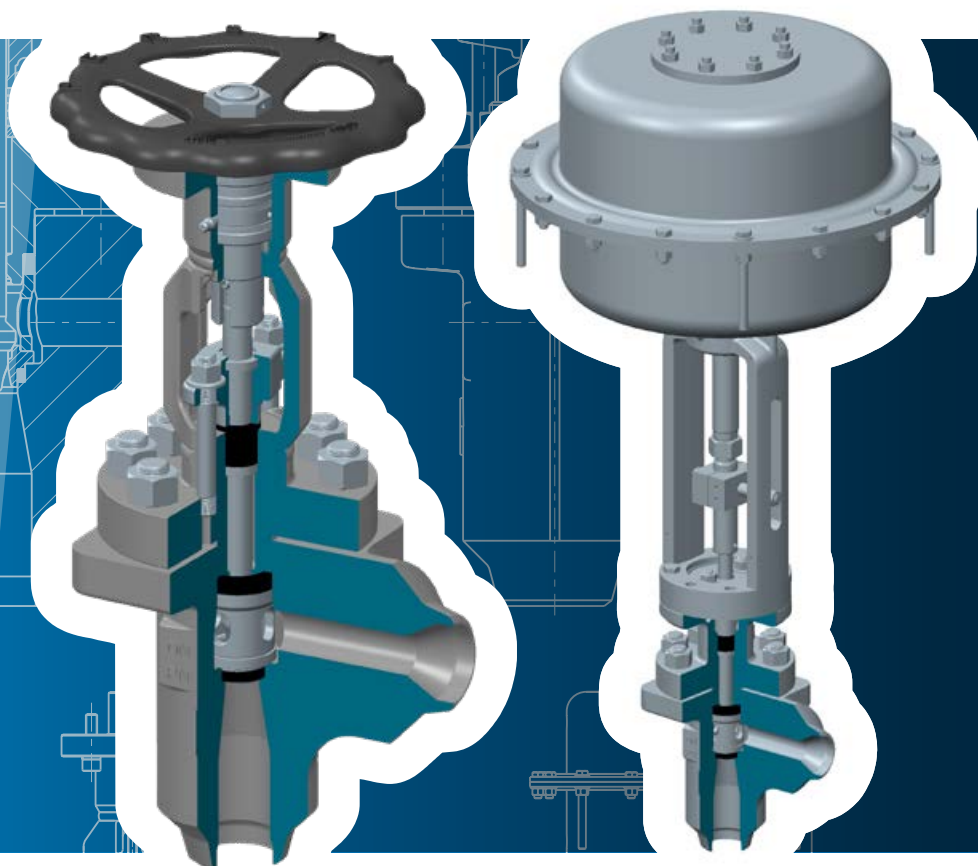
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ASME

version
available


BLOW DOWN VALVE

KAV - 202 FJ – PD25 - DN 50-65

Design highlights

- Body seat with replaceable seat ring made of Stellite for high-wearing applications
- Single-piece stem with disc and armoured regulating attachment
- Shut-off and regulating geometry structurally separated
- The regulating geometry can be adjusted, on request
- The angular form valve version improves the flow characteristics and reduces wear
- The cover gasket and the gland packing are pretensioned separately
- The seal of the seat ring is ensured by a gasket in the “force shunt”
- Yoke sleeve in special brass with good emergency running characteristics
- The disc spring assembly limits the tensioning of the stem during warming and it cushions the closing procedure

Version

- Angular form with straight top part
- Body forged
- Non-rotating, rising stem
- Position indicator / anti-twist device
- Shut-off seat separate from throttle contour
- Needle bearing yoke sleeve
- With integral actuator connection flange
- With back seat
- Flow passage form 200 FJ on request
- Dust proof version possible possible
- Actuated with handwheel, electric actuator, pneumatic actuator

Operating data

- Operating pressure up to 250 bar
- Operating temperature up to 650 °C

Materials

- 1.0460
- 1.5415
- 1.7335
- 1.7383
- 1.4903

Other materials available on request.

Flow medium

Water/steam mixture

Applications

The drain valve is specifically designed for use as a blow down valve. If the valves are used as “continuous blow down” or “discontinuous blow down” valves, the seat ring and the disc (in particular) are subject to increased wear. For this reason, the stem with disc and the seat ring can be replaced. To ensure as long a service life as possible for the wear parts and thus to ensure internal tightness in the valve, the seat and throttle attachment are separate. The valve is only designed for operation with pressure pressure inlet above the disc.

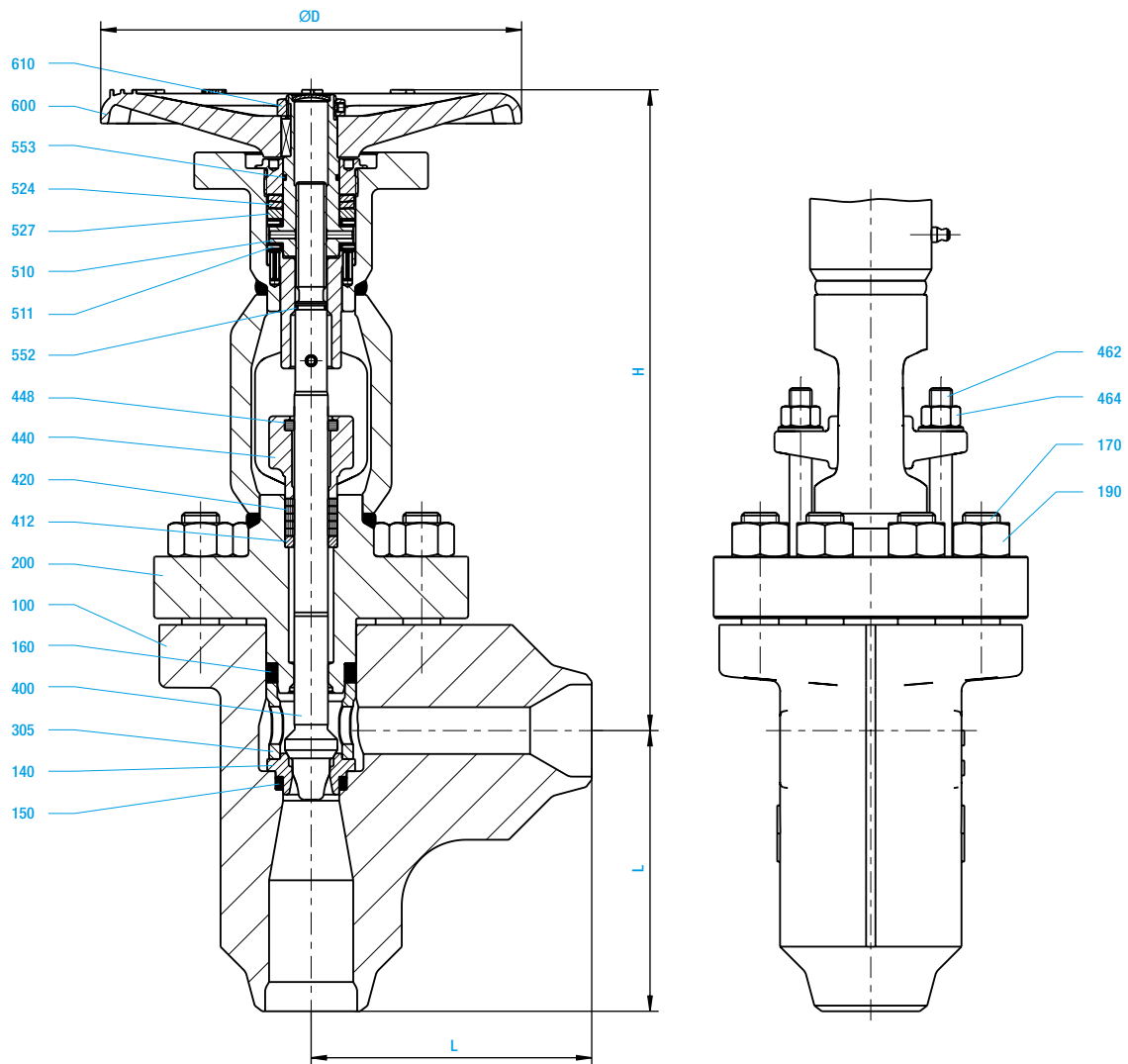
Area of application

Permissible operating pressure [bar(g)] at calculation temperature [°C] ¹⁾

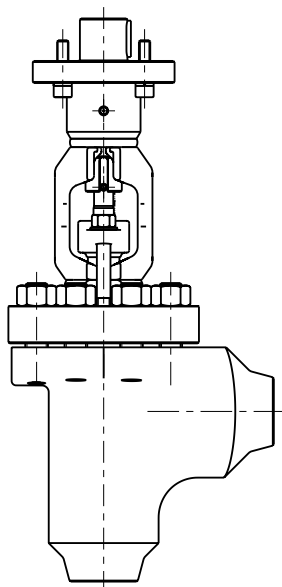
Temp.	PD	20	50	100	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	
1.0460	25	250	250	250	250	250	250	250	250	250	214	179	145	145	145	139	102	68	39																		
1.5415	25	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	214	139	89	52													
1.7335	25	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	211	158	108	63	34										
1.7383 ²⁾	25	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	239	209	171	136	102	77	53	32	17						
1.4903 ²⁾	25	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	240	230	210	200	164	135	110	87	65

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

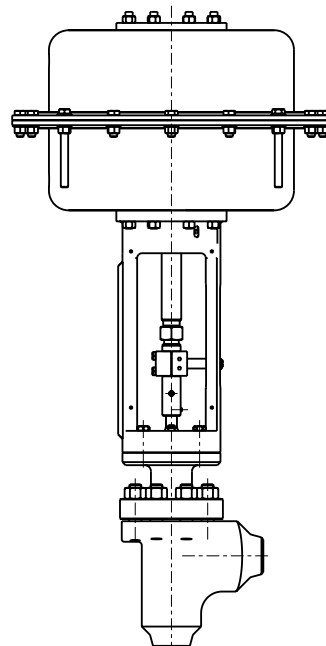
2) For temperatures > 570 °C, stem material 1.4980, seat armoured with Stellite, and high-temperature packing.



With connection parts for electric actuator



With pneumatic actuator



Materials

Item	Designation	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)	1.4903 (63)
100	Body	1.0460	1.5415	1.7335	1.7383	1.4903
140	Seat ring	Stellite	Stellite	Stellite	Stellite	Stellite
150	Gasket	Graphite	Graphite	Graphite	Graphite	Graphite
160	Gasket	Graphite	Graphite	Graphite	Graphite	Graphite
170	Bolt	1.7225	1.4980	1.4980	1.4980	1.4980
190	Hexagonal nut	1.7218	1.4986	1.4986	1.4986	1.4986
200	Bonnet	1.7383	1.7383	1.7383	1.7383	1.4903
305	Body insert	1.4980	1.4980	1.4980	1.4980	1.4980
400	Stem	1.4980	1.4980	1.4980	1.4980	1.4980
412	Guide sleeve	0.7660	0.7660	0.7660	0.7660	0.7660
420	Packing	Pure graphite	Pure graphite	Pure graphite	Pure graphite	Pure graphite
440	Gland	1.7379	1.7379	1.7379	1.7379	1.7379
448	Packing ring	Graphite mesh	Graphite mesh	Graphite mesh	Graphite mesh	Graphite mesh
462	Bolt	1.7225	1.7225	1.7225	1.7225	1.4980
464	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.4986
510	Yoke sleeve	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R
511	Anti-friction bearing	WLSt	WLSt	WLSt	WLSt	WLSt
524	Disc spring	1.8159	1.8159	1.8159	1.8159	1.8159
527	Supporting disc	1.4021	1.4021	1.4021	1.4021	1.4021
552	O-ring	Viton	Viton	Viton	Viton	Viton
553	O-ring	Viton	Viton	Viton	Viton	Viton
600	Handwheel	5.3106	5.3106	5.3106	5.3106	5.3106
610	Hexagonal nut	St	St	St	St	St

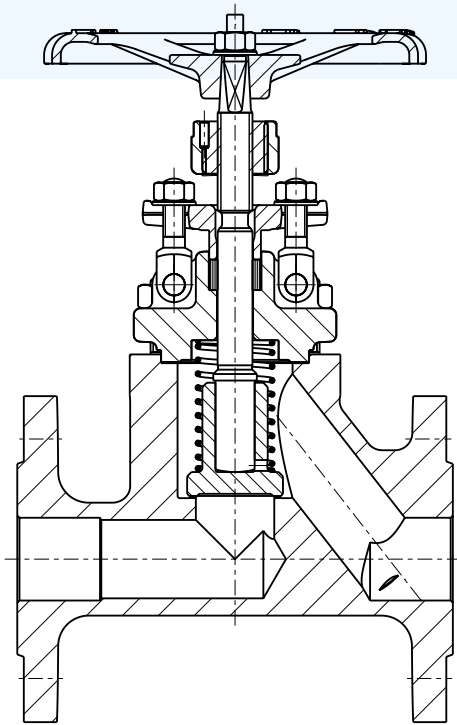
Spare parts

Dimensions/mm and weights/kg

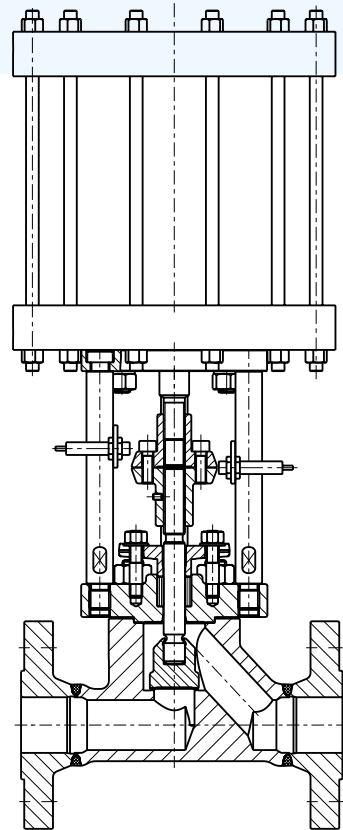
DN	L	H	Stroke length	Rev/stroke	ØD	DIN/ISO 5210	Weight (handwheel)	Kvs * [m³/h]
50	150	340	23	11.5	225	F10/F14	32 kg	13.1
65	200	495	32	10.6	360	F14/F16	79 kg	29.4

* Deviations are possible due to changed connection dimensions.

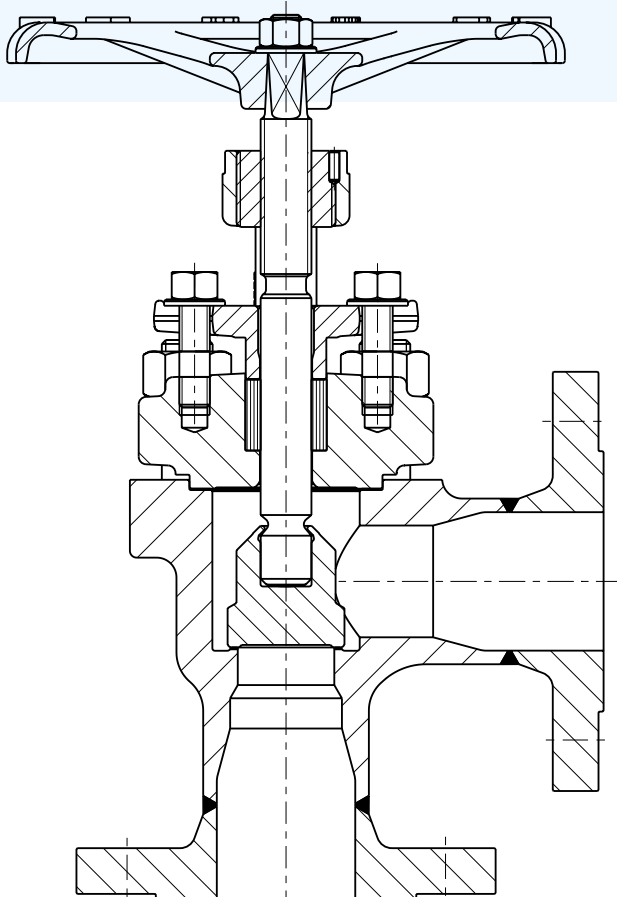
Lift check valve with shut-off option 240 ME



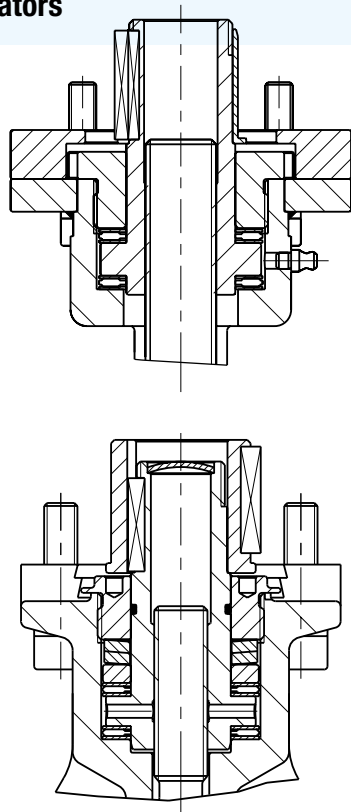
Globe valve with pneumatic actuator



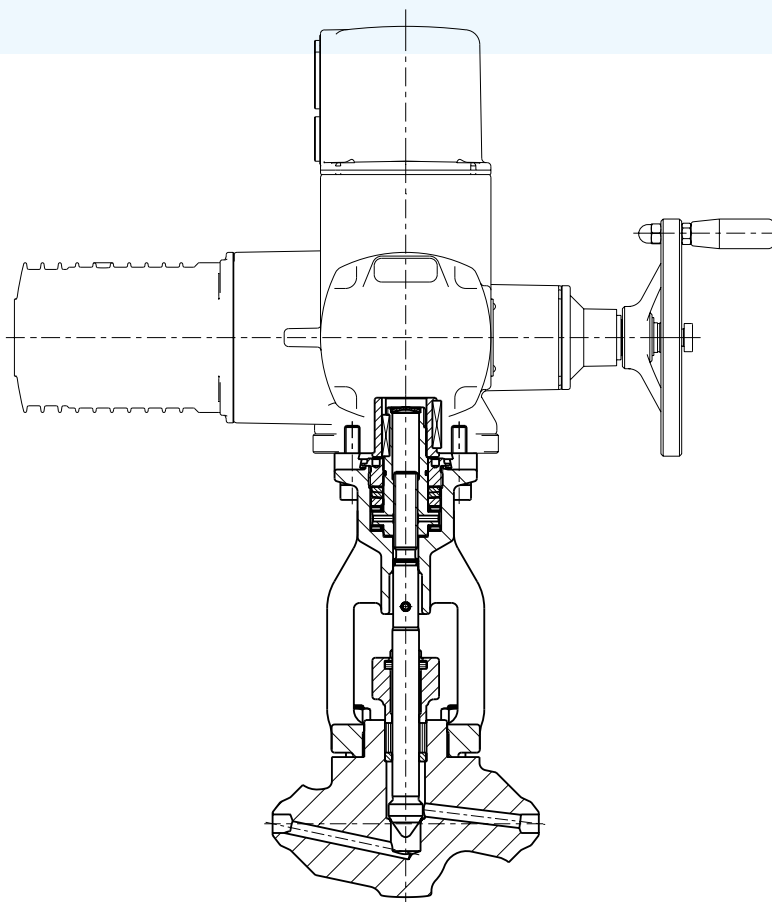
Angle pattern globe valve 202 AE



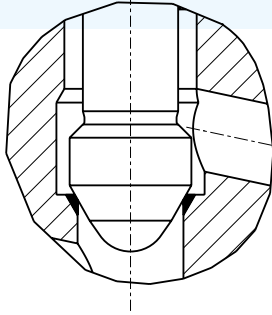
Attachment variants for electric actuators



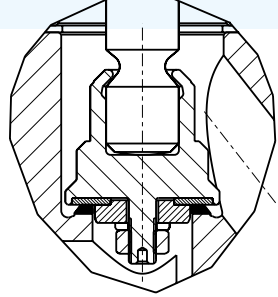
Example



Disc with edge seat

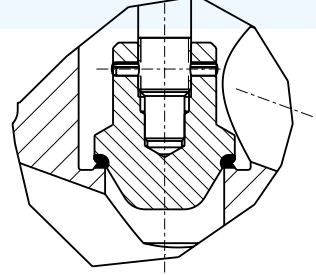


Soft-sealing disc



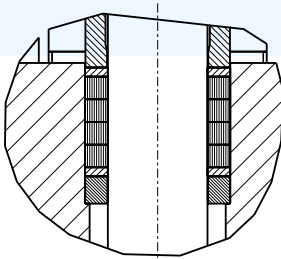
e.g. with PTFE insert ring for special media up to approx. 280 °C

Regulating disc with fixed pins



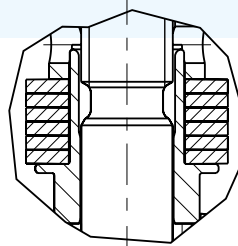
Suitable for operation in intermediate position

PTFE stuffing box



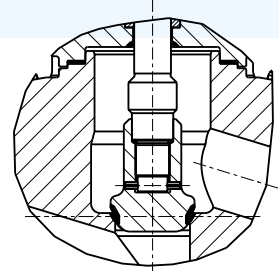
Chambered for aggressive media up to approx. 280 °C max.

Stuffing box with central disc spring contact pressure

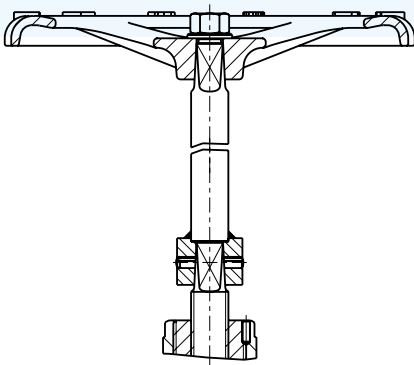


To minimise maintenance work

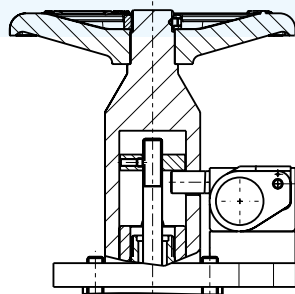
Armoured back seat



Stem extension

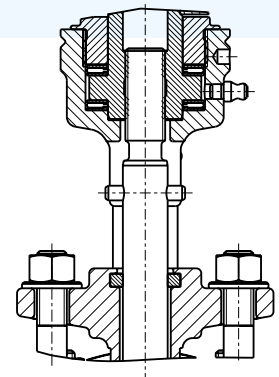


PERLOC system locking

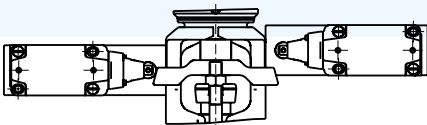


Also for dependency interlocks (safety circuits)

Non-rotating stem

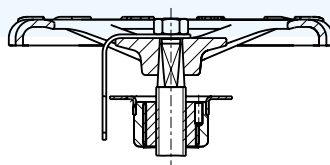


Limit switch



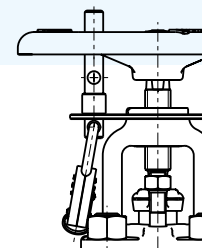
Mechanical or inductive available

Position OPEN/CLOSED display



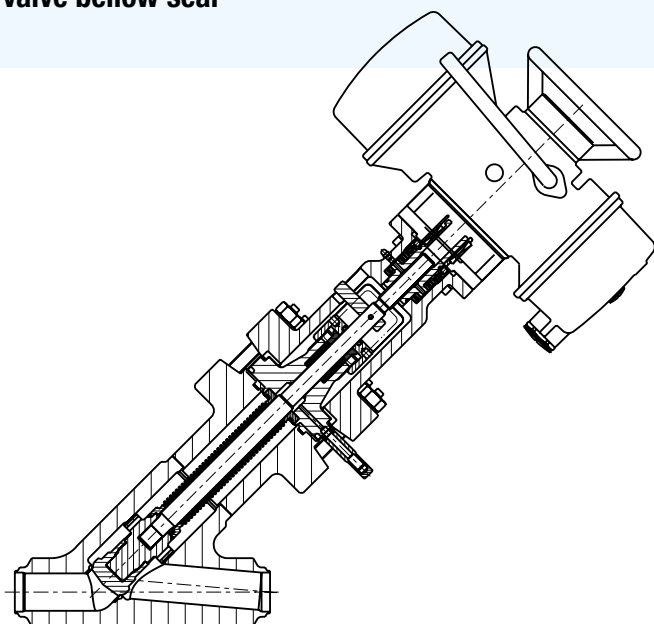
With sheet metal bracket

Locking

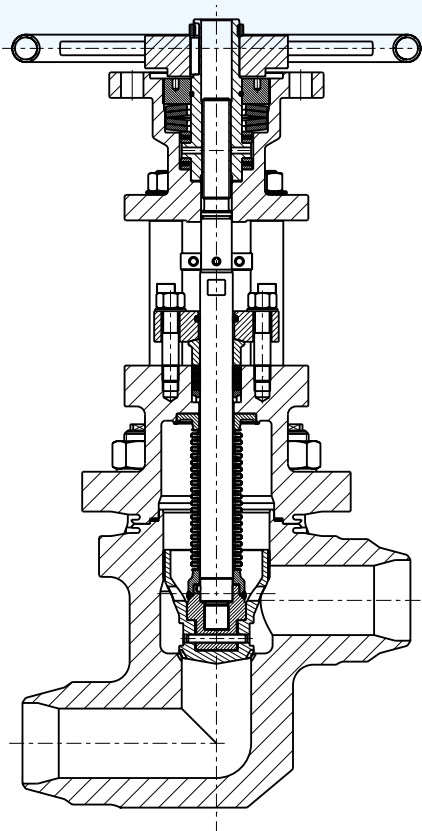


With padlock

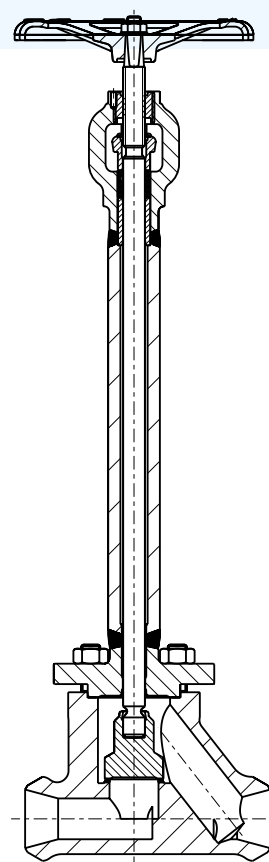
Y-valve bellow seal



Monoblock Z-valve



Shut-off valve with insulating clearance



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