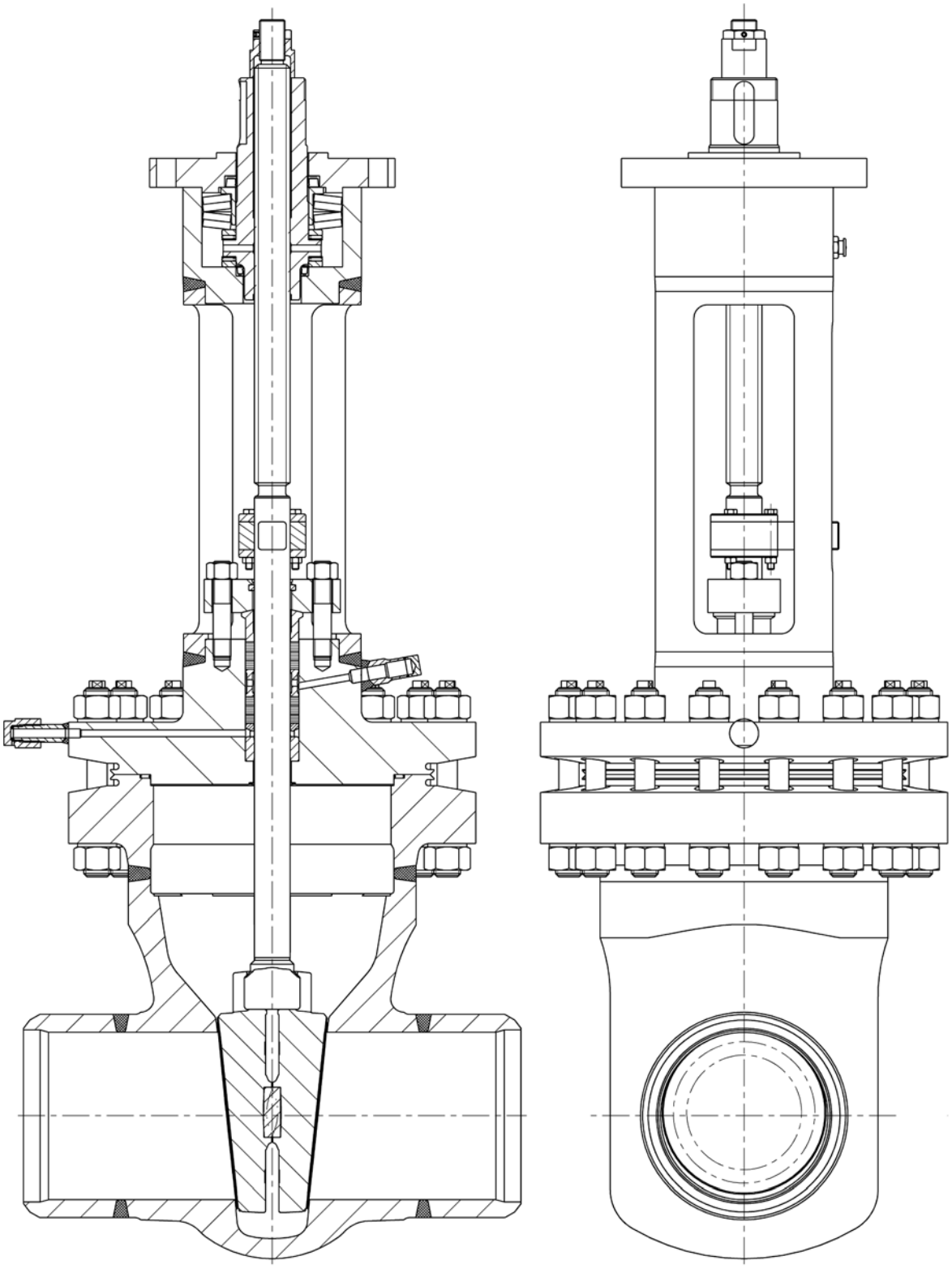
▪ Gate valve ▪ DN 80 to DN 150

Design size P4
700 JJ

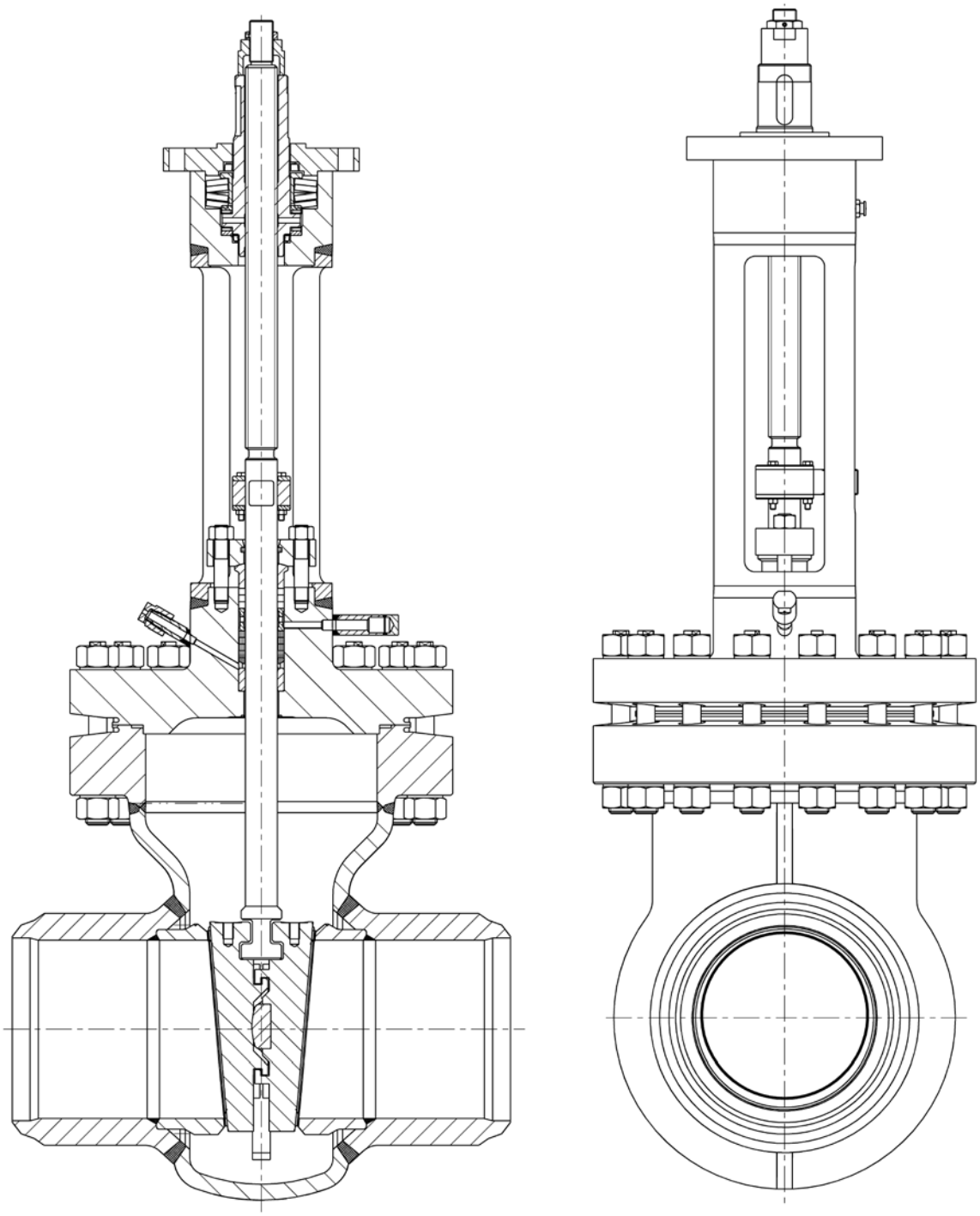


▪ Gate valve ▪ DN 80 to DN 150

Valve type	Gate valve with butt weld ends			
Series	700 JJ 21.2 700 JJ 74.2	1.0460 1.4552	(A 105) (A 351 CF8C)	forged steel casting
Nominal diameter	DN 80 to DN 150			
Design data	4 Mpa – 250 °C	design size P4		
Shut-off differential pressure	Pa = Delta_P or max. operating pressure			
Flow direction	bi-directional			
Body-/Disc-sealing surfaces	Co-free welded			
Stem sealing	highest-grade graphite 99,85 % packing (nuclear-quality)			
Body/bonnet-gasket	in force bypass / spiral wound gasket / 1.4541 with graphite (nuclear-quality)			
Lip seals gasket	for seal welding in an emergency			
Mechanical position indication	on/off			
Safety relevant task	function during and after an accident			
Seismic design	function after an earthquake			
Tightness	outside in the seat	DIN EN 12266-2, Leakage rate A DIN EN 12266-1, Leakage rate A		
Installation position	preferably horizontal line / vertical spindle			
Actuating versions	handwheel gear box with handwheel electric actuator coupling device for remote control pneumatic actuator			

▪ Gate valve ▪ DN 200 to DN 800/700

Design size P4
700 JJ

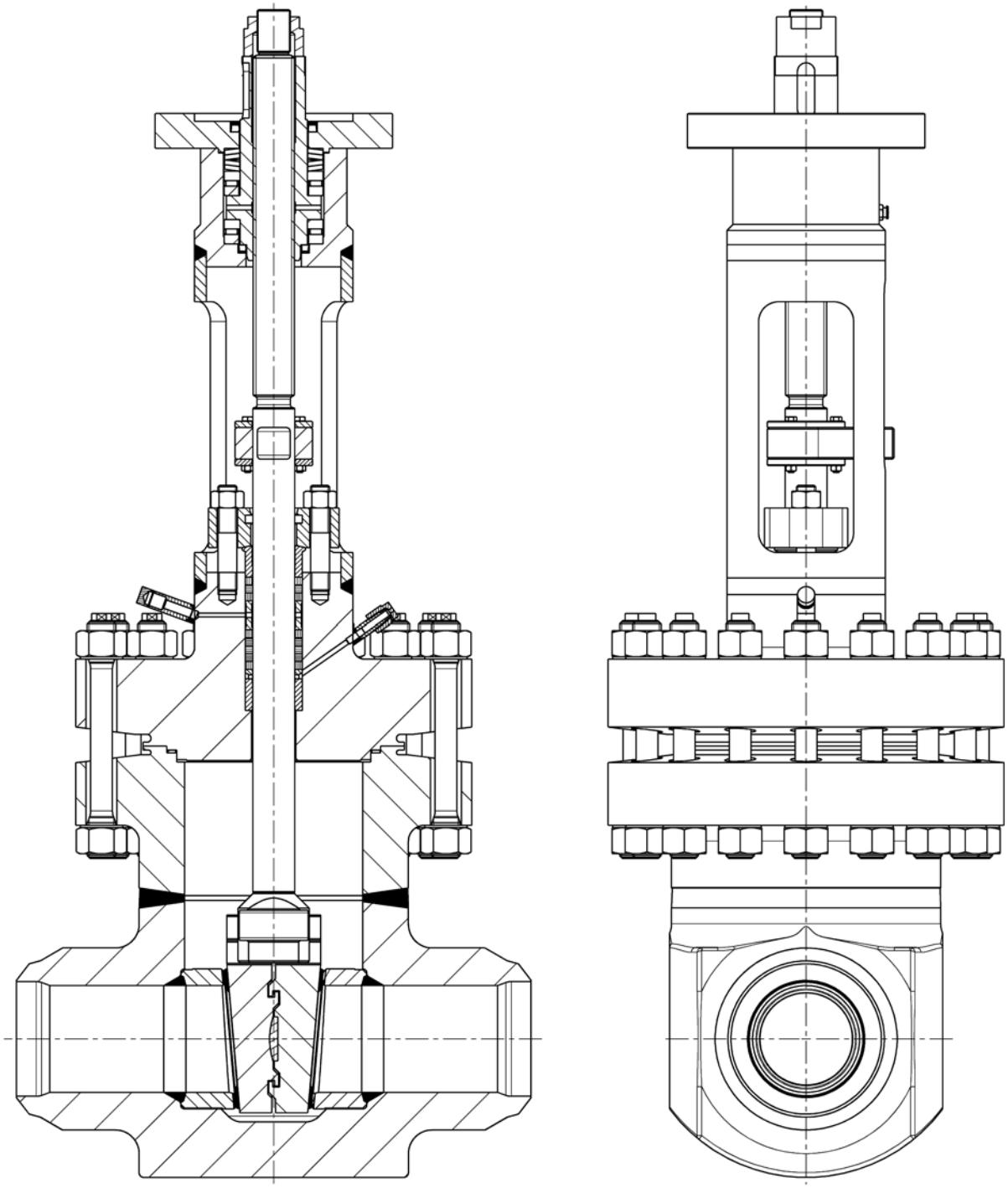


▪ Gate valve ▪ DN 200 to DN 800/700

Valve type	Gate valve with butt weld ends			
Series	700 JJ 21.2	1.0460	(A 105)	forged steel
	700 JJ 84.2	1.4541	(A 182 F 321)	forged steel
Nominal diameter	DN 200 to DN 800/700			
Design data	4 Mpa – 250 °C	design size P4		
Shut-off differential pressure	Pa = Delta_P or max. operating pressure			
Flow direction	bi-directional			
Body-/Disc-sealing surfaces	Co-free welded			
Stem sealing	highest-grade graphite 99,85 % packing (nuclear-quality)			
Body/bonnet-gasket	in force bypass / spiral wound gasket / 1.4541 with graphite (nuclear-quality)			
Lip seals gasket	for seal welding in an emergency			
Mechanical position indication	on/off			
Safety relevant task	function during and after an accident			
Seismic design	function after an earthquake			
Tightness	outside	DIN EN 12266-2, Leakage rate A		
	in the seat	DIN EN 12266-1, Leakage rate A		
Installation position	preferably horizontal line / vertical spindle			
Actuating versions	handwheel gear box with handwheel electric actuator coupling device for remote control pneumatic actuator, dependent on nominal size and technical data			

▪ Gate valve ▪ DN 80 to DN 500

Design size P11–P20/25
700 JJ

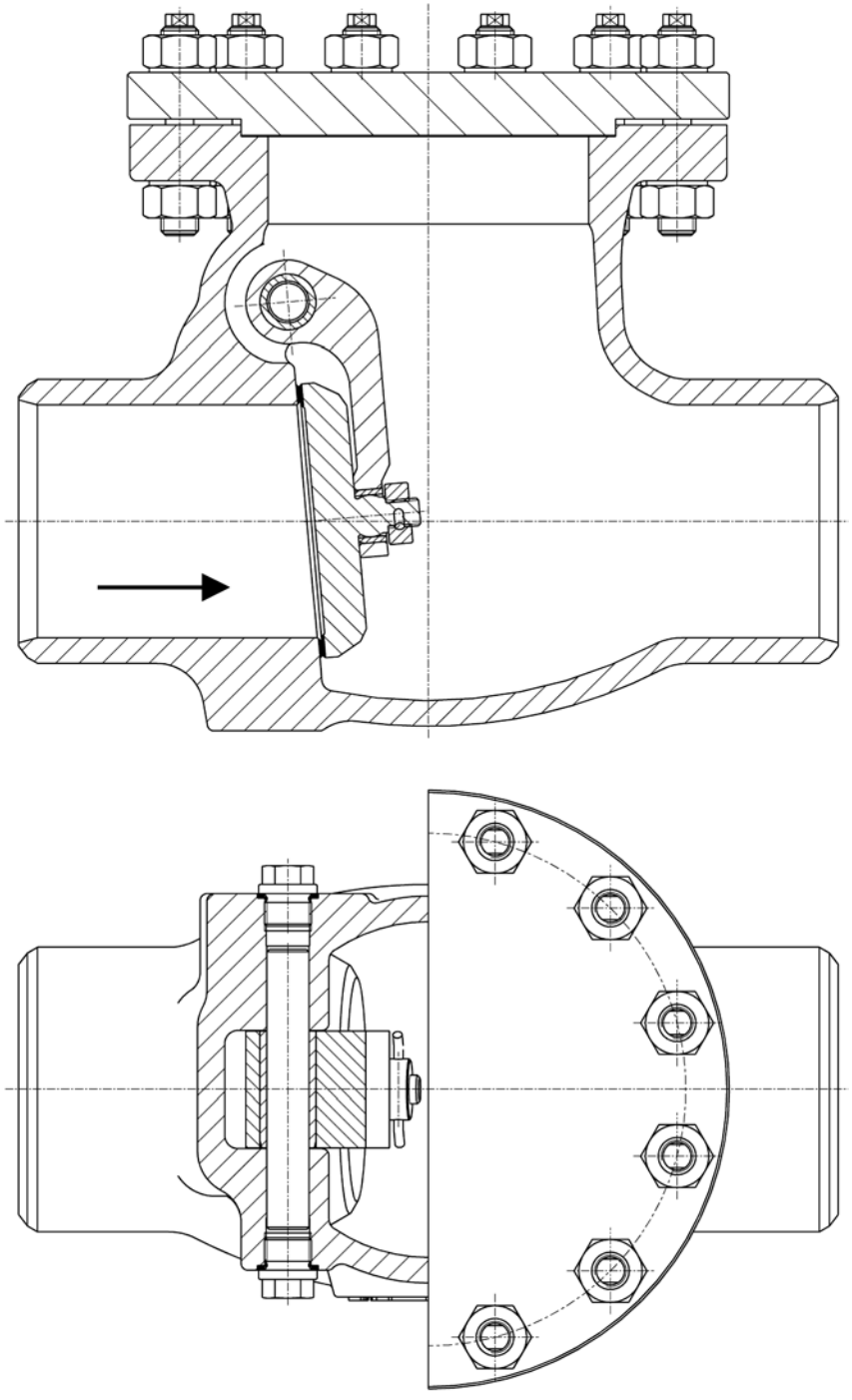


▪ Gate valve ▪ DN 80 to DN 500

Valve type	Gate valve with butt weld ends			
Series	700 JJ 21.2	1.0460	(A 105)	forged steel
	700 JJ 84.2	1.4541	(A 182 F 321)	forged steel
Nominal diameter	DN 80 to DN 500			
Design data	11 Mpa – 350 °C	design size P11		
	20 Mpa – 350 °C	design size P20		
	25 Mpa – 350 °C	design size P25		
Shut-off differential pressure	Pa = Delta_P or max. operating pressure			
Flow direction	bi-directional			
Body-/Disc-sealing surfaces	Co-free welded			
Stem sealing	highest-grade graphite 99,85 % packing (nuclear-quality)			
Body/bonnet-gasket	in force bypass / spiral wound gasket / 1.4541 with graphite (nuclear-quality)			
Lip seals gasket	for seal welding in an emergency			
Mechanical position indication	on/off			
Safety relevant task	function during and after an accident			
Seismic design	function after an earthquake			
Tightness	outside	DIN EN 12266-2, Leakage rate A		
	in the seat	DIN EN 12266-1, Leakage rate A		
Installation position	preferably horizontal line / vertical spindle			
Actuating versions	gear box with handwheel electric actuator coupling device for remote control pneumatic actuator, dependent on nominal size and technical data handwheel, dependent on nominal size and technical data			

▪ Swing check valve ▪ DN 80 to DN 250

Design size P4
640 AA

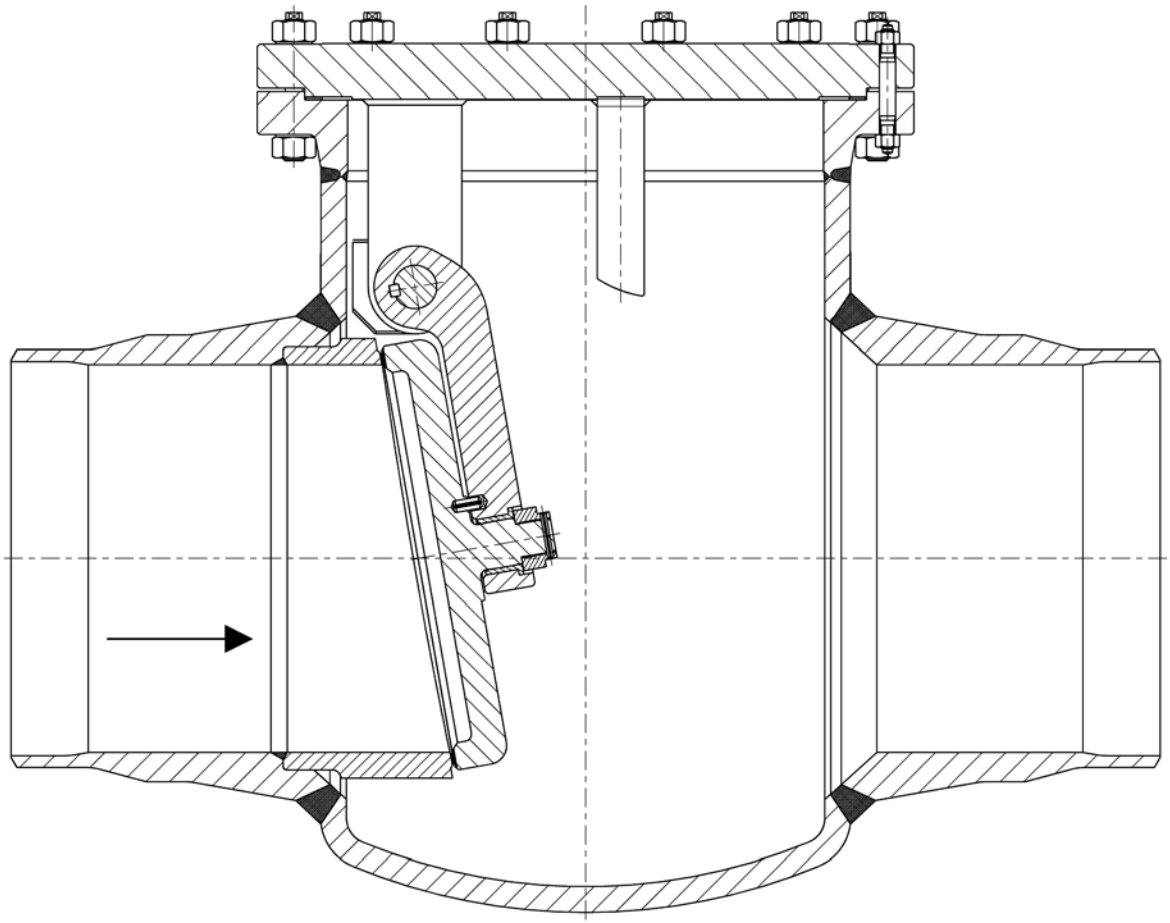


▪ Swing check valve ▪ DN 80 to DN 250

Valve type	Swing check valve with butt weld ends			
Series	640 AA 11.2	1.0619	(A 216 WCB)	casting
	640 AA 74.2	1.4552	(A 351 CF8C)	casting
Nominal diameter	DN 80 to DN 250			
Design data	4 Mpa – 250 °C	design size P4		
Shut-off differential pressure	Pa = Delta_P or max. operating pressure			
Flow direction	according to drawing			
Body-/Disc-sealing surfaces	Co-free welded			
Body/bonnet-gasket	in main force / serrated profile gasket / 1.4541 with graphite (nuclear-quality)			
Safety relevant task	function during and after an accident			
Seismic design	function after an earthquake			
Tightness	outside	DIN EN 12266-2, Leakage rate A		
	in the seat	DIN EN 12266-1, Leakage rate C		
Installation position	preferably horizontal line			
Option	lip seals gasket body / gasket in force bypass			

▪ Swing check valve ▪ DN 300 to DN 500

Design size P4
640 AA

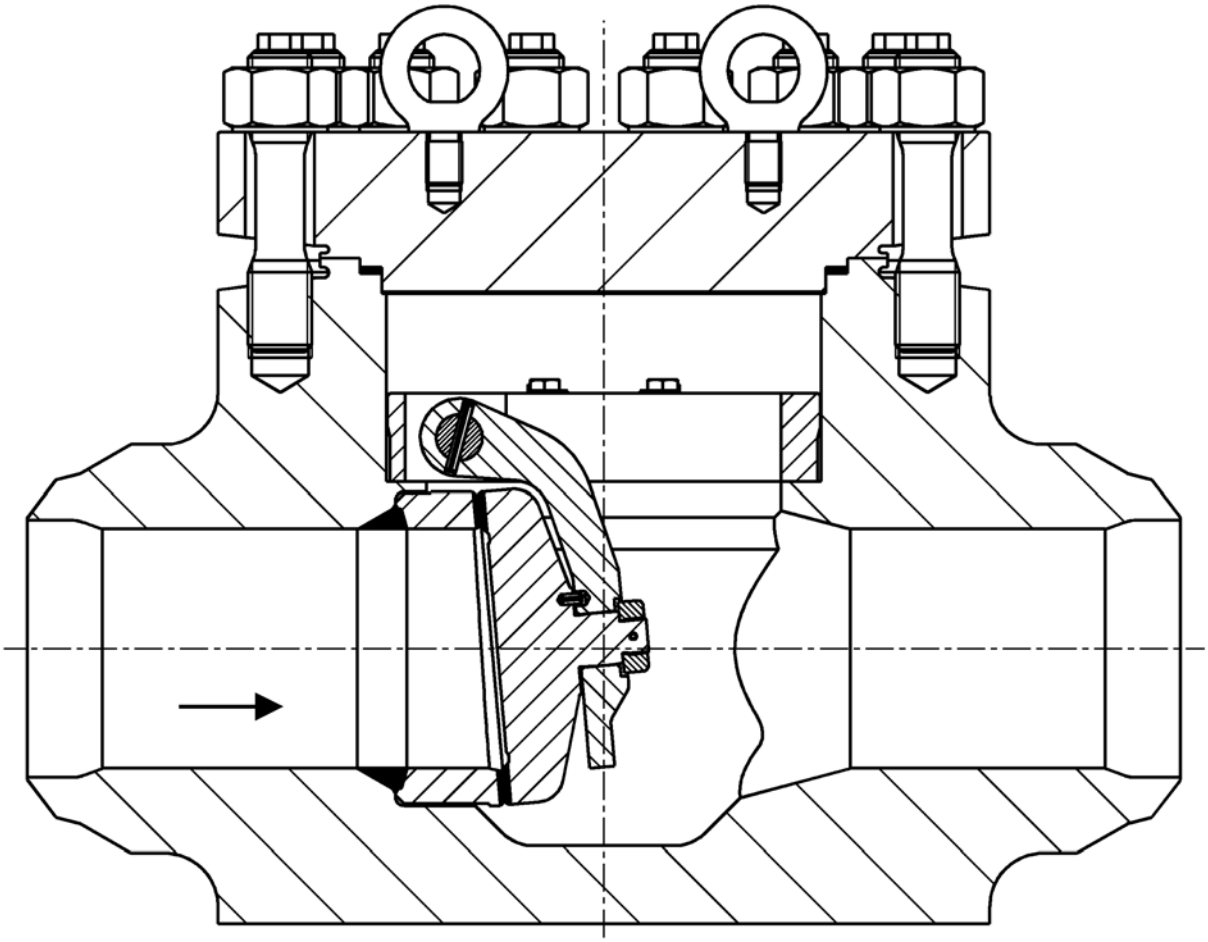


▪ Swing check valve ▪ DN 300 to DN 500

Valve type	Swing check valve with butt weld ends			
Series	640 AA 21.2	1.0460	(A 105)	forged steel
	640 AA 84.2	1.4541	(A 182 F 321)	forged steel
Nominal diameter	DN 300 to DN 500			
Design data	4 Mpa – 250 °C	design size P4		
Shut-off differential pressure	Pa = Delta_P or max. operating pressure			
Flow direction	according to drawing			
Body-/Disc-sealing surfaces	Co-free welded			
Body/bonnet-gasket	in main force / serrated profile gasket / 1.4541 with graphite (nuclear-quality)			
Safety relevant task	function during and after an accident			
Seismic design	function after an earthquake			
Tightness	outside	DIN EN 12266-2, Leakage rate A		
	in the seat	DIN EN 12266-1, Leakage rate C		
Installation position	preferably horizontal line			
Option	lip seals gasket body / gasket in force bypass			

▪ Swing check valve ▪ DN 80 to DN 500

Design size P11–P20/25
640 AA



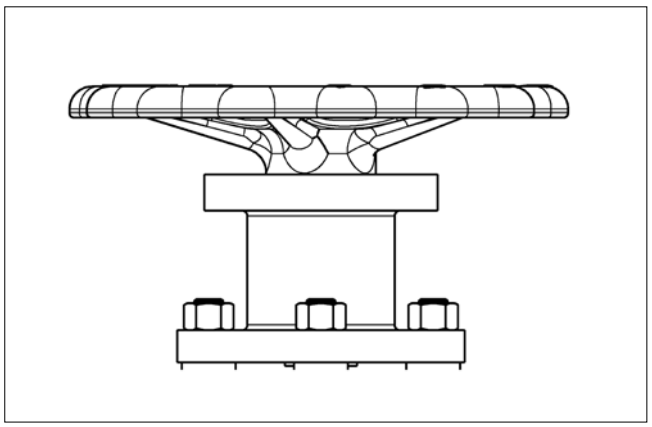
▪ Swing check valve ▪ DN 80 to DN 500

Valve type	Swing check valve with butt weld ends			
Series	640 AA 21.2	1.0460	(A 105)	forged steel
	640 AA 84.2	1.4541	(A 182 F 321)	forged steel
Nominal diameter	DN 80 to DN 500			
Design data	11 Mpa – 350 °C	design size P11		
	20 Mpa – 350 °C	design size P20		
	25 Mpa – 350 °C	design size P25		
Shut-off differential pressure	Pa = Delta_P or max. operating pressure			
Flow direction	according to drawing			
Body-/Disc-sealing surfaces	Co-free welded			
Body/bonnet-gasket	in force bypass / spiral wound gasket / 1.4541 with graphite (nuclear-quality)			
Lip seals gasket	for seal welding in an emergency			
Safety relevant task	function during and after an accident			
Seismic design	function after an earthquake			
Tightness	outside	DIN EN 12266-2, Leakage rate A		
	in the seat	DIN EN 12266-1, Leakage rate C		
Installation position	preferably horizontal line			

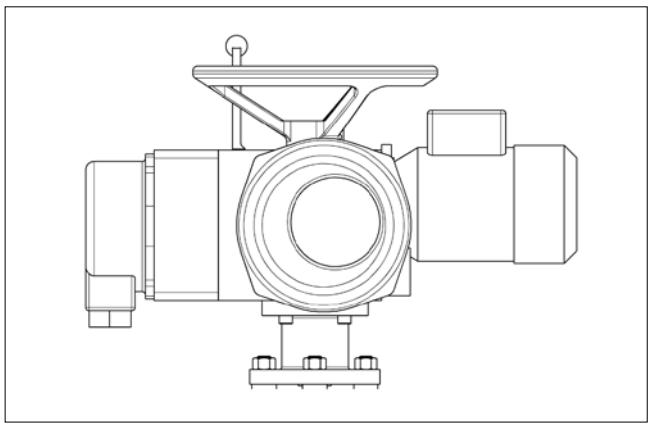
▪ Actuating versions

Globe valves and gate valves

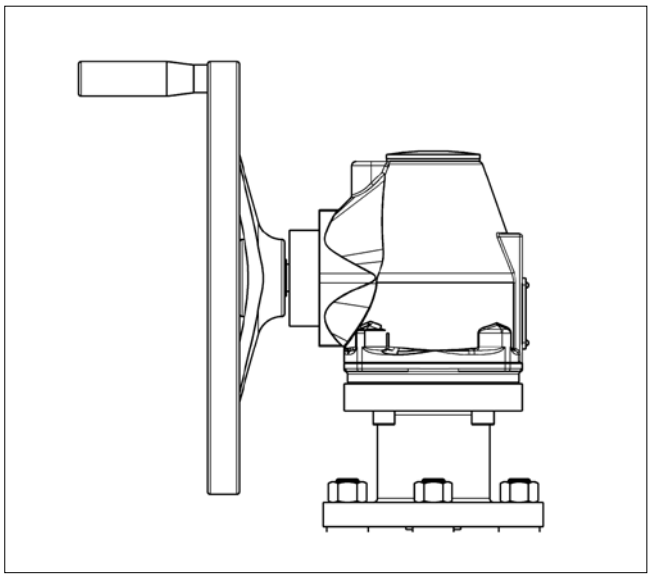
Handwheel



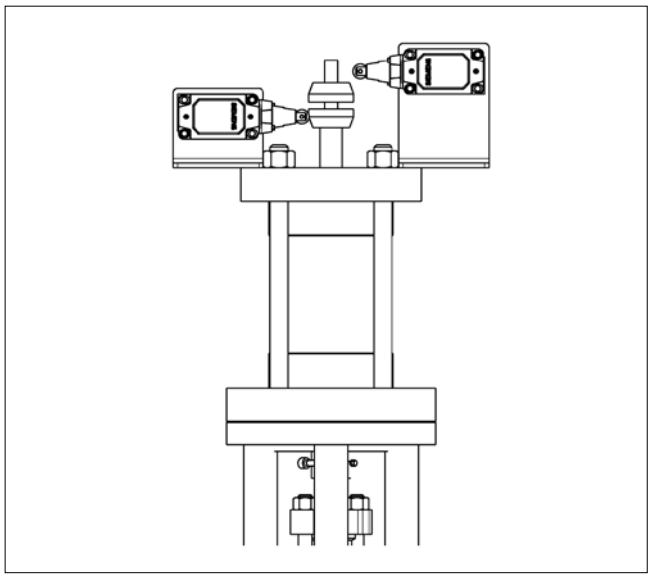
Electric actuator



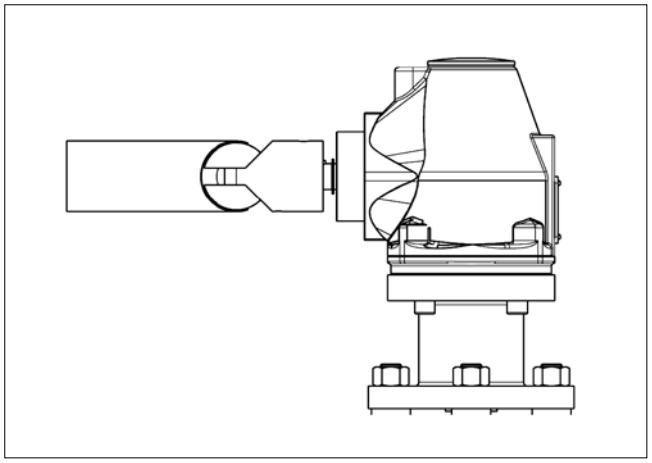
Gear box with handwheel



Pneumatic actuator



Coupling device for remote control

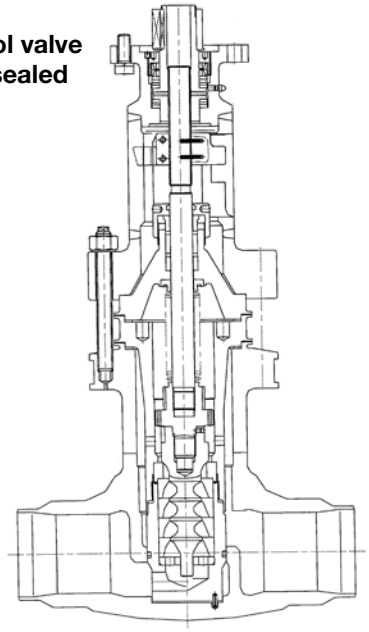


▪ References ▪ Mochovce, Slovac Republic

Mochovce, Slovac Republic

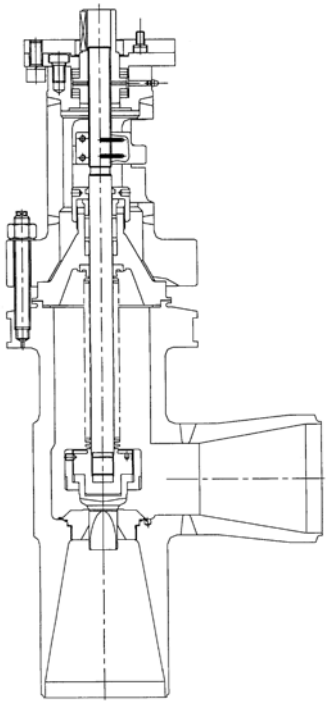
High pressure control valve
Multi-stage, bellow sealed
DN 100

Material:	1.4541
Medium:	H_3BO_3
PA	140 bar
TA	335 °C
Qmin	8 t/h
Δp	118 bar
Qmax	40 t/h
Δp	9,8 bar



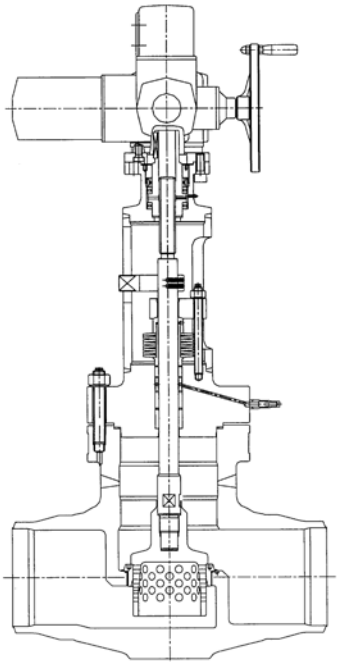
Control valve
Angle type, bellow sealed
DN 150/100

Material:	1.4541
Medium:	feed water
PA	92 bar
TA	290 °C
Qmin	2,25 t/h
Δp	40 bar
Qmax	13,5 t/h
Δp	40 bar



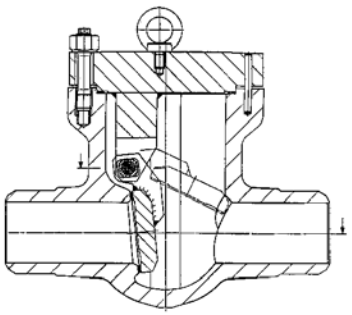
High pressure
Control valve
DN 250

Material:	1.4541
Medium:	feed water
PA	120 bar
TA	250 °C
Qmax	550 t/h
Δp	14,5 bar



Swing check valve
DN 80 + 125 + 250, PN 160

Material:	1.5415
Medium:	H_3BO_3
PA	14 bar
TA	335 °C
Medium:	demin. water
PA	52,8 bar
TA	25 °C

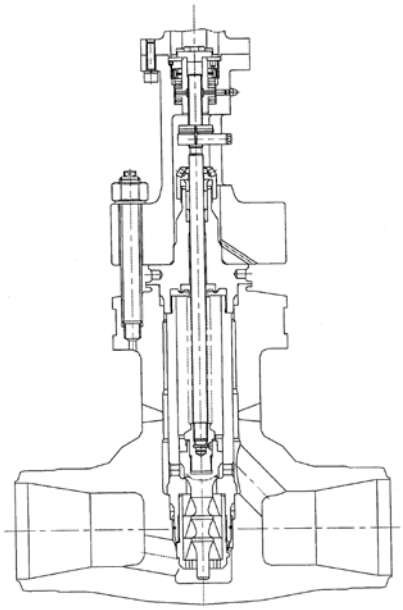


▪ References ▪ Temelin, Czech Republic

Temelin, Czech Republic

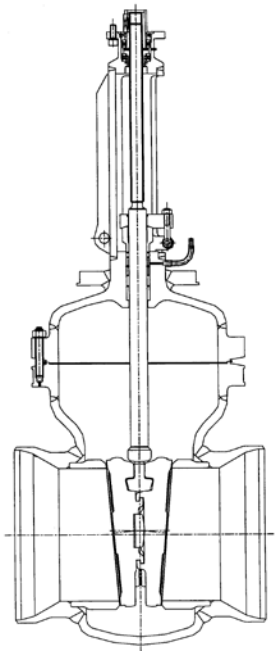
Control valve
bellow sealed
DN 100

Material:	1.4541
Medium:	H_3BO_3
PA	180 bar
TA	350 °C
Qmin	0,3 t/h
Δp	2,2 bar
Qmax	55 t/h
Δp	145 bar



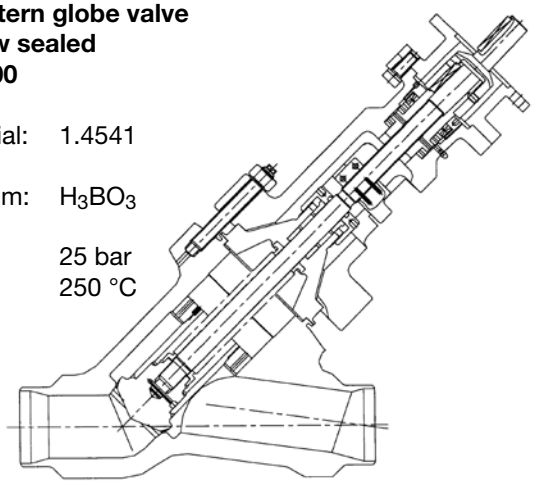
Gate valve
DN 600/500

Material:	1.4541
Medium:	H_3BO_3
PA	25 bar
TA	250 °C



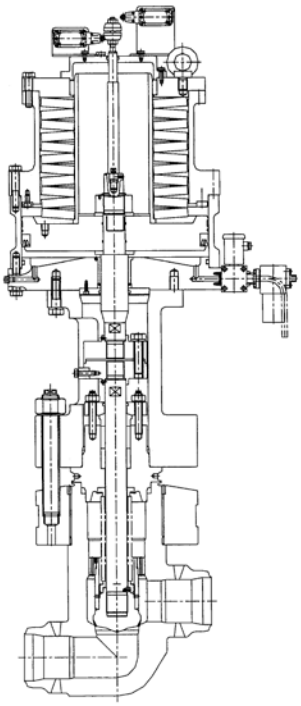
Y-pattern globe valve
bellow sealed
DN 100

Material:	1.4541
Medium:	H_3BO_3
PA	25 bar
TA	250 °C



Z-globe valve
bellow sealed
DN 100

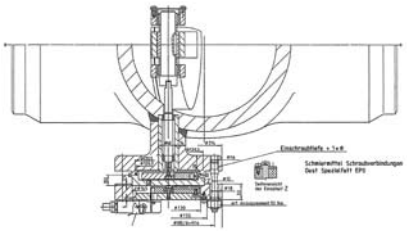
Material:	1.4541
Medium:	H_3BO_3
PA	200 bar
TA	350 °C

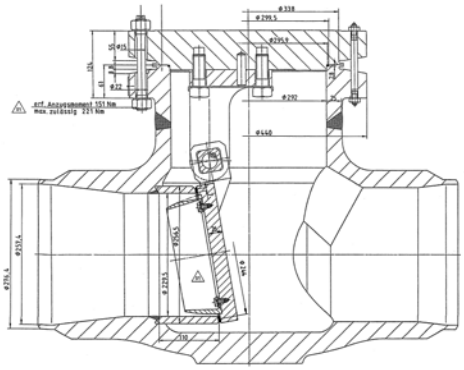


▪ References ▪ Grohnde, Germany ▪ Pocerady, Czech Republic ▪ Forsmark, Sweden

Grohnde, Germany

Swing check valve
DN 250

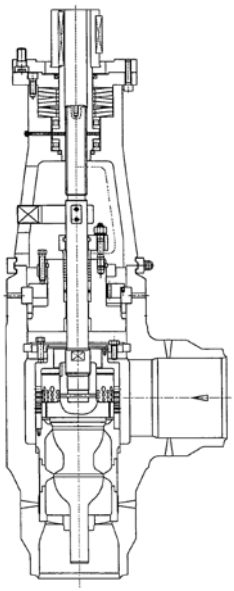




Pocerady, Czech Republic

High pressure control valve
Multi-stage angle type
DVR25
DN 300

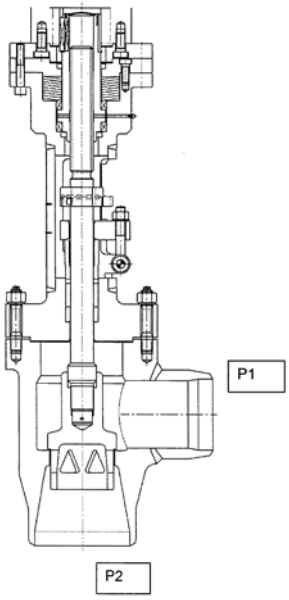
Material:	1.7335
Medium:	feed water
PA	300 bar
TA	190 °C
Δp 1	10 bar
Qmax	720 t/h
Qnorm	420 t/h
Δp open	220 bar



Forsmark, Sweden

High pressure control valve
Angle type
in DN 150, out DN 200

Material:	1.7335
Medium:	steam
Kvs	235 m³/h
PA	115 bar
TA	485 °C
Fall 1:	
P1	60 bar
T1	450 °C
Qmax	1,55 t/h
Fall 2:	
P1	85 bar
T1	485 °C
P2	37,2 bar
Qmax	37,3 kg/s



References

Since many years PERSTA globe, gate, check and special valves have been proven their daily performance in the secondary as well as the primary circuit of nuclear power stations e.g. as listed hereinafter:

Brokdorf (D)

Brunsbüttel (D)

Emsland (D)

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Grohnde (D)

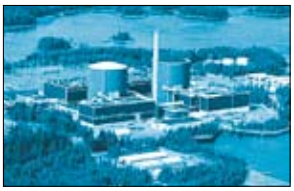
Gundremmingen (D)

Kozloduy (BG)

Dukovany (CZ)

Temelin (CZ)

Paks (H)



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