

**PRESSURE RELIEF VALVE**

(or OVERFLOW VALVE)

**SPRINGLOADED - MODEL S3**
**VALVE FEATURES**

DN15 to DN100

(DN125 and DN150 consult)

 DIN PN25 Nodular Iron GJS-400-18-LT (0.7043)  
 DIN PN25 Bronze RG-10 (EN-1982 CuSn10-CC480K)  
 DIN PN40 Carbon steel GP240GHN (1.0619)  
 DIN PN40 Stainless steel CF3M (1.4404)

Stainless steel AISI 316L trim

Top guided standard construction

 Connection Flanged EN and ANSI  
 On request: Threaded BSP or NPT, BW, SW, ...

Shut off capabilities:

- Class IV (metal to metal)
- Class VI (PTFE+GR seat)

On request, PEEK, NBR, EPDM seal, stellited faced seat, ...

Full port as standard. Reduced port on request

Setting pressure 0,5 - 20 barg (with different springs)

Max. permissible temperature	0.7043 and 1.0619	-10 to 250°C
	1.4408	-30 to 250°C

Seal / Packing / Gaskets	VIRGIN PTFE UP TO 180°C
	PTFE+GRAPHITE UP TO 220°C

Special features

Handwheel regulation, specials gaskets, Super Duplex construction, bronze construction, ...

Approvals

Quality system ISO 9001

Pressure equipment Directive according 2014/68/UE

ATEX Directive according 2014/34/UE (pending to include).



Pressure relief valve it's used to maintain the pressure upstream of the valve to an adjusted set point.

When upstream pressure rises above a set point, the valve opens proportionally pressure rising.

This series of regulators is suitable for steam, gases (group 1 and 2) and liquids.

A relief pressure valve is not a safety valve, and then if necessary, an overpressure protection must be installed.


**PRESSURE – TEMPERATURE RATINGS (according to EN12516-1 and EN 1092-2)**

Nominal Pressure	Body material	Services temp.	°C	-10	50	100	150	200	250	300	350
PN25 – Class 150	Nodular Iron (0.7043) EN-GJS-400-18	Working pressure	bar	25	25	25	24	23	21	20	17
PN40 – Class 300	Carbon steel GP240GH (1.0619)		bar	40	40	36	35	34	33	30	29
PN40 – Class 300	Stainless steel A351 CF3M (AISI 316L-1.4404)		bar	40	38	33	30	28	26	25	24

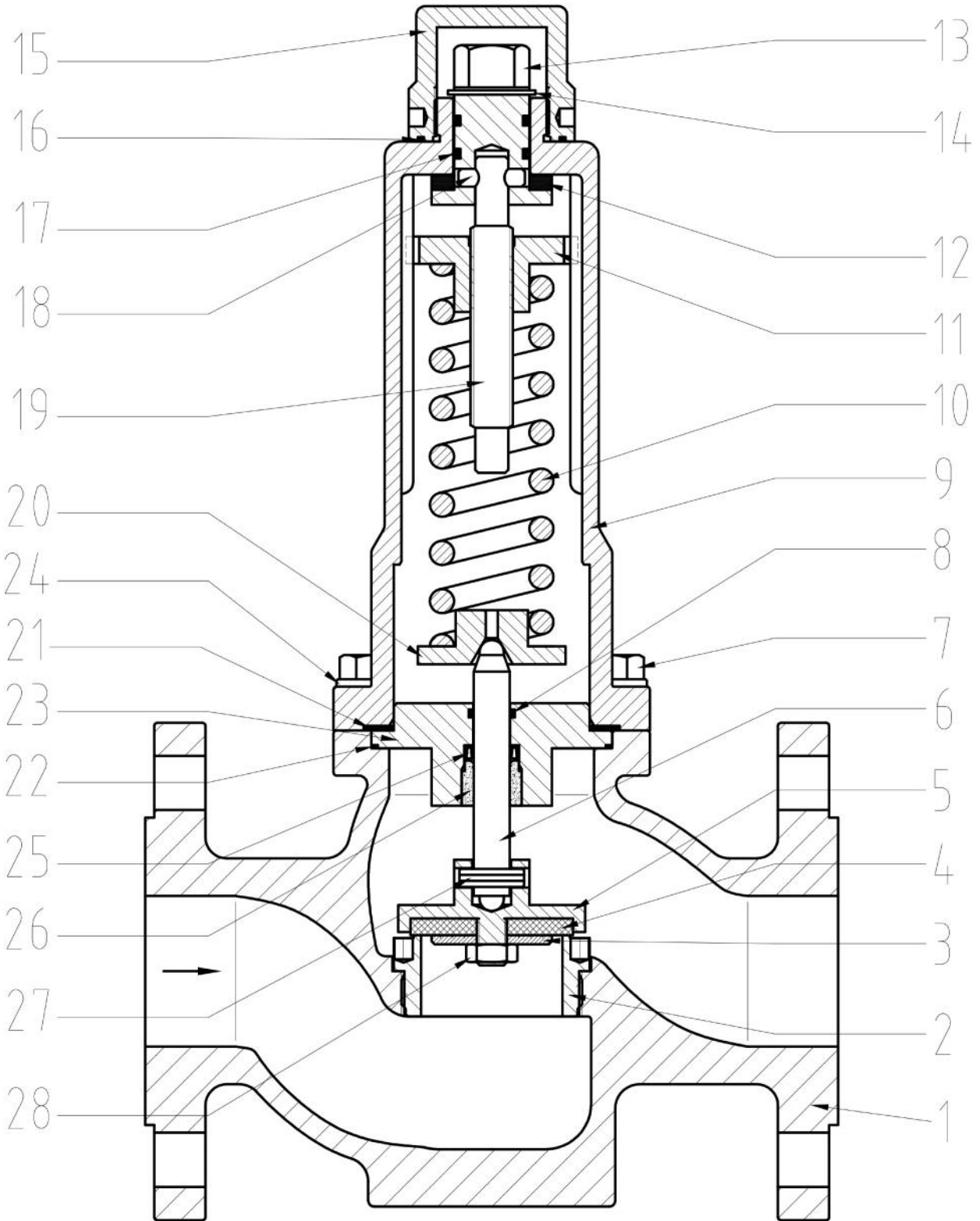
Description		Material	Description		Material
1	Body	Nodular Iron GGG40.3 (1)	19	Regulation stem B	Stainless steel A2-70
		Carbon steel WCB (1)	20	Up support Spring	Zinc plated steel 1.1191
		Stainless steel A351 CF3M (316L) (2)	21	Flat gasket	PTFE
2	Seat	Stainless steel AISI 316L	22	O-ring	FKM (or NBR, EPDM)
3	Guide	Stainless steel AISI 316L	23	Bonnet	Stainless steel AISI 316L
4	Seal	PTFE+Graphite / SS AISI 316L	24	Washer	Zinc plated steel 8.8 (1)
		Or EPDM, NBR, FKM, PEEK, ...			Stainless steel A2-70 (2)
5	Support seal	Stainless steel AISI 316L	25	Isolation gasket	PTFE+GR+SS302
6	Stem	Stainless steel AISI 316L	26	Stem guide	Bronze / SS316L+Ni
7	Bolts	Zinc plated steel 8.8 (1)	27	Block Pin	A2-70
		Stainless steel A2-70 (2)	28	Nut	A2-70
8	O-ring	FKM (or NBR, EPDM)			
9	Spring cover	Stainless steel A351 CF3M (316L) (2)			
10	Regulation Spring	Spring steel painted	110	Handwheel	Steel painted
11	Down support Spring	Zinc plated steel 1.1191	111	Bolt	A2-70
12	Bearing	PTFE+GR	112	Washer	A2-70
13	Regulation stem A	Stainless steel AISI 316L	113	Regulation stem A	Stainless steel AISI 316L
14	Washer	A2-70	114	Washer	PTFE
15	Cover cap	Zinc plated steel 1.1191 (1)	115	Cover cap	Zinc plated steel 1.1191 (1)
		Stainless steel AISI 316L (2)			Stainless steel AISI 316L (2)
16	O-ring	FKM (or NBR, EPDM, PTFE)	116	Isolation gasket	PTFE+GR+SS302
17	O-ring	FKM (or NBR, EPDM)			
18	Block Pin	Steel			

Recommended spare parts

HANDWHEEL COMPONENTS

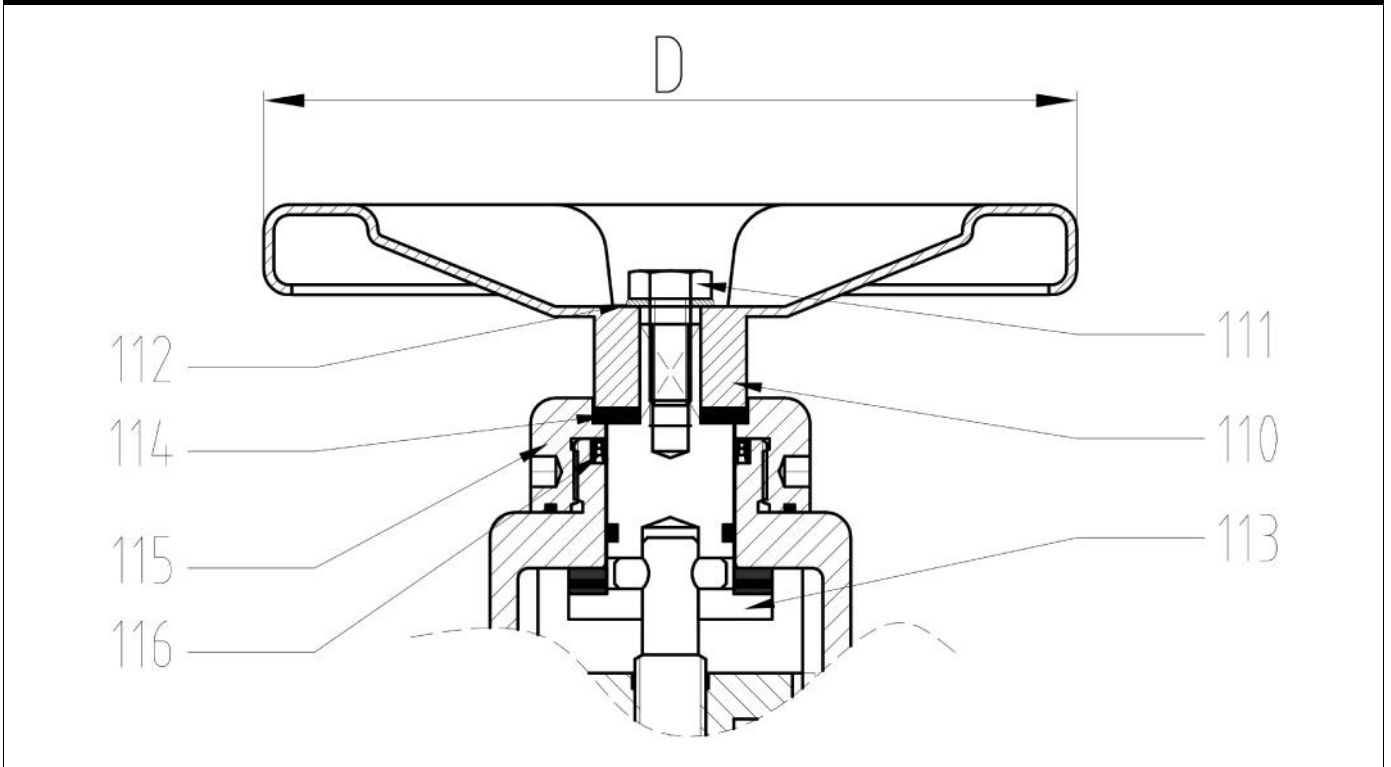


VALVE PARTS





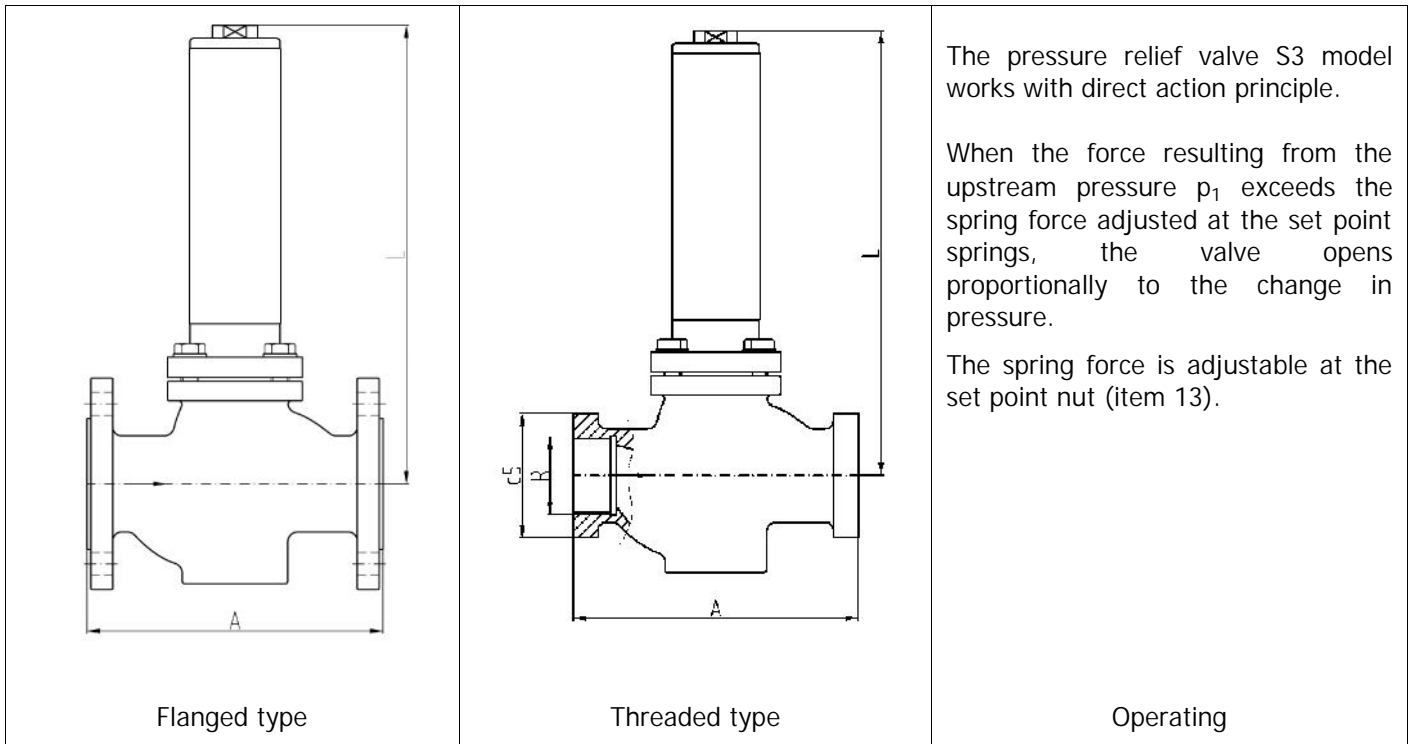
HANDWHEEL OPTION



VALVE DIMENSIONS, WEIGHT AND Kv VALUES

DN		15	20	25	32	40	50	65	80	100
Kv	(m <sup>3</sup> /h)	3.5	5	9	15	22	35	60	85	130
Cv	(gpm)	4	5.8	10.4	17.5	25	41	70	100	152
A (EN 558-1)	(mm)	130	150	160	180	200	230	290	310	350
A ANSI150	(mm) (inches)			184 7,25"	-	222 8,75"	254 10"	276 10,86"	298.5 11,75"	352.5 13,88"
A ANSI300	(mm) (inches)			197 7,76"	-	235 9,25"	267 10,51"	292 11,5"	317.5 12,50"	368 14,49"
L (sealing cap)	(mm)	260	260	267	267	321	321	450	450	520
L (Handwheel)	(mm)									
Weight	(kg)	10	10	12	13	16	18	30	40	50

Available under request



**TYPICAL INSTALLATION S3 RELIEF VALVE**

