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PRESSURE RELIEF VALVE

(or OVERFLOW VALVE)

SPRINGLOADED - MODEL S3

VALVE FEATURES

DN15 to DN100

(DN125 and DN150 consult)

DIN PN25 Nodular Iron GJS400-18-LT (0.7043)

DIN PN25 Bronze RG10 (EN-1982 CuSn10CC480K)

DIN PN40 Carbon steel GP240GHN (1.0619)

DIN PN40 Stainless steel CBM (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 sealstellited faced seat,€

Full port as standard. Reduced port on request

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

Max. permissible

0.7043 and 1.0619

-10 to 250•C

temperature

1.4408

-30 to 250•C

Seal / Packing /

Gaskets

VIRGIN PTFE UP TO 80°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.

PRESSUR F TEMPERATUR RATINGS (according to EN125161 and EN 1092-2)											
Nominal Pressure	Body material	Services temp.	•0	-10	50	100	150	200	250	300	350
PN25 f Class 150	Nodular Iron (0.7043) EN-GJS400-18		bar	25	25	25	24	23	21	20	17
PN40f Class 300	Carbon steel GP240GH (1.0619)	Working pressure	bar	40	40	36	35	34	33	30	29
PN40f Class 300	Stainless steel A351 CF3M (AISI 316L-1.4404)		bar	40	38	33	30	28	26	25	24

	Description	Material		Description	Material		
		Nodular Iron GGG40.3 (1)	19	Regulation steen	Stainles stee A270		
1	Body	Carbon steel WCB (1)	20	Up support Spring	Zinc plated steel 1.1191		
		Stainless ste&B51CF3M(316L) (2)	21	Flat gasket	PTFE		
2	Seat	Stainless steel AISI 316L	22	O-ring	FKM (or NBR, EPDM)		
3	Guide	Stainless steel A336L	23	Bonnet	Stainless steel AISI 316L		
4	Seal	PTFE+Graphite / SS AISI 316L		Washer	Zinc plated stee8(1)		
4	Seal	Or EPDM, NBR, FKM, PEEK, €	24	wasilei	Stainless steel-AQ (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 stee8(1)	27	Block Pin	A270		
,	Dolls	Stainless steel-#A2 (2)		Nut	A270		
8	O-ring	FKM (or NBR, EPDM)					
9	Spring cover	Stainless steleB51CF3M(316L) (2)					
10	Regulation Spring	Spring steel painted	110	Handwheel	Steel painted		
11	Down support Spring	Zinc plated steel 1.1191	111	Bolt	A270		
12	Bearing	PTFE+GR	112	Washer	A270		
13	Regulation ste#m	Stainless steel AI\$6B	113	Regulation stem A	Stainless see AISI 316L		
14	Washer	A270	114	Washer	PTFE		
15	Cover cap	Zinc plated steel 1.1191 (1)	115	Coverson	Zinc plated steel 1.1191 (1)		
13	Cover cap	Stainless steel AISI 316L (2)	113	Cover cap	Stainless steel AISI 316L (2)		
16	O-ring	FKM (or NBR, EP,DPMTF)E	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"/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

		The pressure relief valve S3 model works with direct action principle. When the force resulting from the upstream pressure p ₁ exceeds the spring force adjusted at the set point springs, the valve opens proportionally to the change in pressure. The spring force is adjustable at the set point nut (item 13).
Flanged type	Threaded type	Operating

TYPICAL INSTALLATION 53 RELIEF VALVE	