

Model B13 – Pressure relief valve



PRODUCT DESCRIPTION

Pressure relief valves are used on liquid storage tanks and other process vessels or systems to prevent structural damage due to excess internal pressure.

Storage tanks are pressurized when liquid is pumped in, compressing the existing vapor or when rising temperatures cause increased evaporation or expansion of existing vapor.

To prevent tank damage, vapor must be allowed into or out of the tank at specified pressure condition. The volume rate of venting depends upon the tank size, volatility of the tank contents, the pumping rates and the temperature.

FEATURES

Pressure setting:

- 22mm H₂O to 10,000mm H₂O

Size:

- 2" through 12"

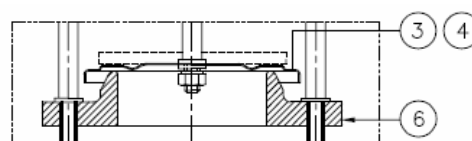
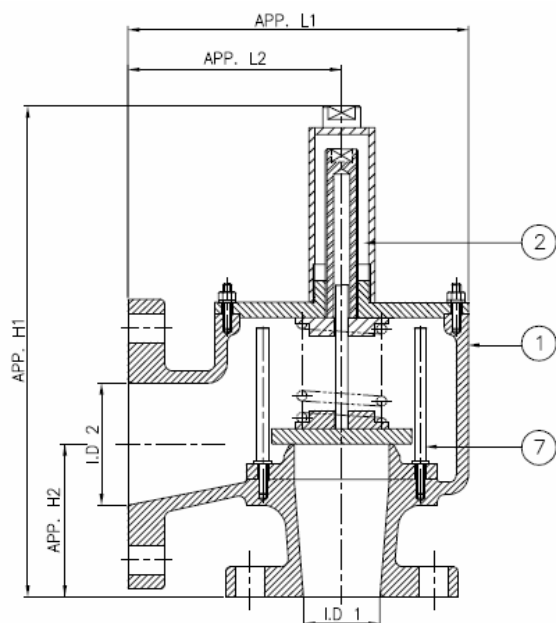
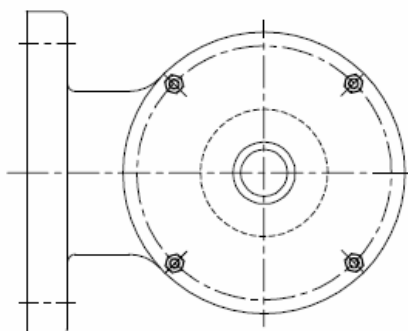
Available in

- Aluminum, Carbon Steel, Stainless Steel

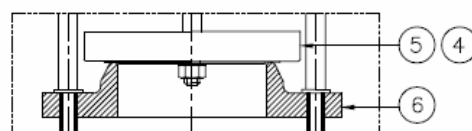
Other size and material to be consult by factory

MATERIALS

REF.	PART	MATERIAL	
		ANSI / ASTM	DIN / EN
1	Body	S. S. (AISI 304)	S. S. (1.4308)
		C.S. (A216WCB)	C.S. (1.6019)
		S.S. (AISI 316)	S. S. (1.4408)
2	Cover (1)	S. S. (AISI 304)	S. S. (1.4308)
		C.S. (A216WCB)	C.S. (1.6019)
		S.S. (AISI 316)	S. S. (1.4408)
3	Disc 1	S. S. (AISI 304)	S. S. (1.4308)
		C.S. (A216WCB)	C.S. (1.6019)
		S.S. (AISI 316)	S. S. (1.4408)
4	Seal Diaphragm	TEFLON	
5	Disc 2	S. S. (AISI 304)	S. S. (1.4308)
		S.S. (AISI 316)	S. S. (1.4408)
6	Seat	S. S. (AISI 304)	S. S. (1.4308)
		S.S. (AISI 316)	S. S. (1.4408)
7	Guide bar	S. S. (AISI 304)	S. S. (1.4308)
		S.S. (AISI 316)	S. S. (1.4408)
8	Spring	S. S. (AISI 304)	S. S. (1.4308)
		S.S. (AISI 316)	S. S. (1.4408)
9	Cap	S. S. (AISI 304)	S. S. (1.4308)
		S.S. (AISI 316)	S. S. (1.4408)
-	Bolts / nuts	S. S. (AISI 304)	S. S. (1.4308)
		S.S. (AISI 316)	S. S. (1.4408)



— PRESSURE SIDE
TEFLON SEAL TYPE



● PRESSURE SIDE
METAL SEAL TYPE

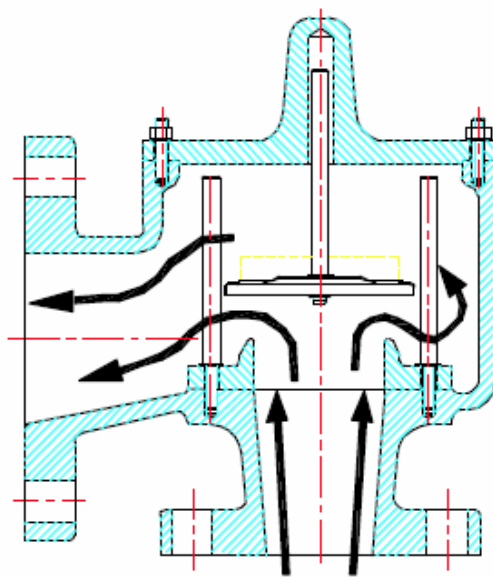
DESIGN AND FUNCTION

Tank protection equipment typically includes an operating valve which is designed to provide pressure relief under normal pump in thermal breathing conditions.

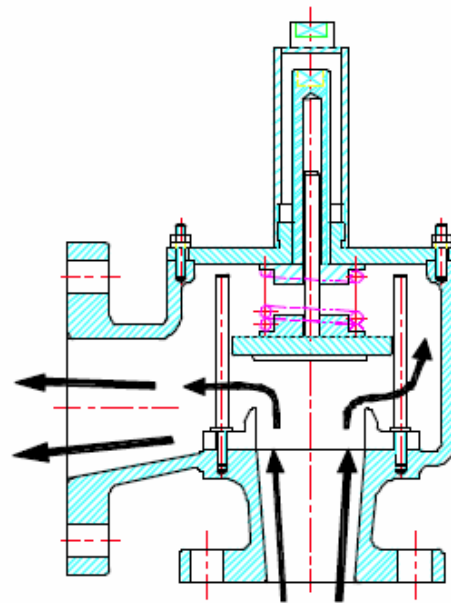
MODEL NO.	TYPE	SETTING PRESSURE RANGE
B13A	Weight loaded release pipe away	22-700 mmH ₂ O
B13B	Spring loaded release pipe away	Above 700 mmH ₂ O

Pressure Relief:

: As the pressure in the storage tank increases. When the set pressure is reached, the pressure pallet lifts and relieves to atmosphere (or to a header if it a pipe away valve).



B13A



B13B

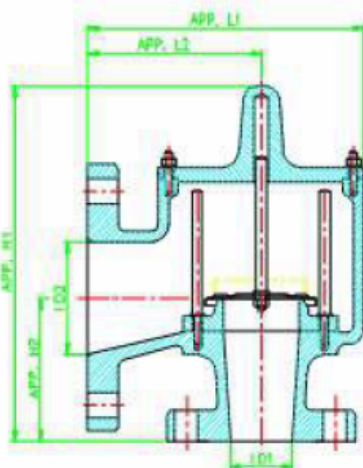
Model B13 of quick-opening type is designed for emergency relief of pressure above capacity that supplied by a standard operating valve used on tanks, piping and low-pressure vessels. It provides relief from excessive internal pressure that may cause tank damage.

Model B13 has self-draining housing body and drip rings to protect seating surfaces from condensation and freezing.

Model WB13 is for use where pressure relief is required and all relieving vapors must be piped away.

DIMENSIONS

MODEL B13A

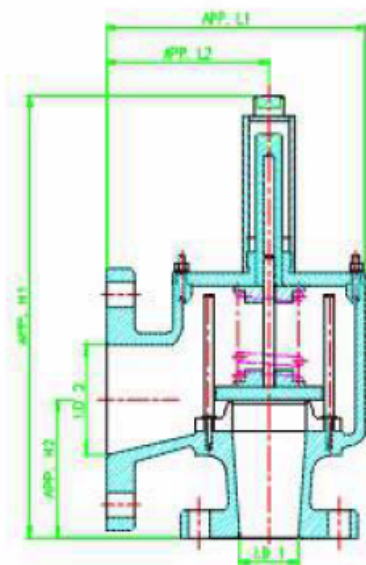


DIMENSION TABLE

UNIT : mm

SIZE	I.D1	I.D2	H1	H2	L1	L2
2" x 3"	50	80	251	100	248	150
3" x 4"	80	100	309	120	258	160
4" x 6"	100	150	379	145	360	220
6" x 8"	150	200	489	180	380	240
8" x 10"	200	250	532	215	420.5	253
10" x 12"	250	300	623	265	491	298
12" x 14"	300	350	686	285	548	330

MODEL B13B



DIMENSION TABLE

UNIT : mm

SIZE	I.D1	I.D2	H1	H2	L1	L2
2" x 3"	50	80	280	100	248	150
3" x 4"	80	100	340	120	258	160
4" x 6"	100	150	400	145	360	220
6" x 8"	150	200	489	180	380	240
8" x 10"	200	250	550	215	420.5	253
10" x 12"	250	300	623	265	491	298
12" x 14"	300	350	700	285	548	330

Disclaimer

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