

AV-9 SANITARY SAFETY VALVES (PRESSURE RELIEF VALVES)





APPLICATION

- The safety valve is used to protect pipe lines, pumps from over pressure.
- Pressure relief design prevents operation danger and equipment brakedown.
- With pure stainless steel design, the valve is the best choice for protecting equipments in diary, food, beverage, pharmaceutical and fine chemical industries.



Pneumatic quick-release
safety valve



Mini-type safety valve



Exhaust valve

OPERATING PRINCIPLES

- The valve is normally closed.
- Pressure is set by calibrating the spring with pressure nut.
- When the pressure in the pipe exceeds to the specify pressure, the valve open automatically to make the liquid flow in order to reduce pressure.
- The valve can be with handle to realize partial open. The CIP liquid can flow through the valve when the handle remains open on the spot.

OPTIONS

- Connections: Butt-weld, sanitary clamp, flange, thread, etc. (DIN, IDF, SMS, RJT, 3A standard)
- Seals and gaskets: EPDM as default, Silicone or Viton (FPM) are available upon request.
- Pressure range adjustable (by calibrating spring).
- Partial opened with quick release handle. When under CIP (use with pump), the liquids can flow through.

TECHNICAL SPECIFICATIONS

- Max. working temperature: 250°F (121°C) with EPDM seal.
- Max. Operating pressure:
 Spring adjustable can be 0-43 PSI (0-3 bar) / 0-87 PSI (0-6 bar) default / 0-116 PSI (0-8 bar).



Manual quick-release
safety valve

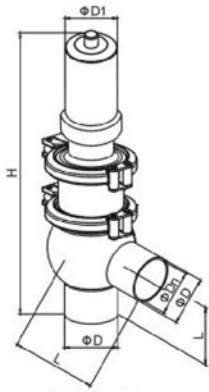


Pneumatic quick-release
safety valve



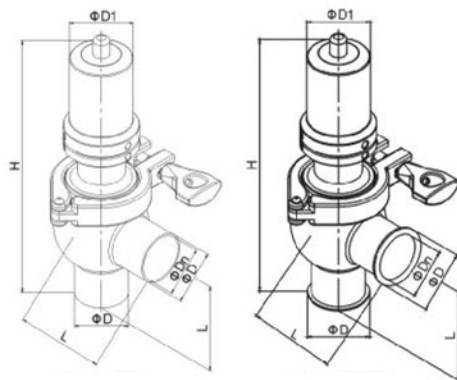
Safety valve (standard)





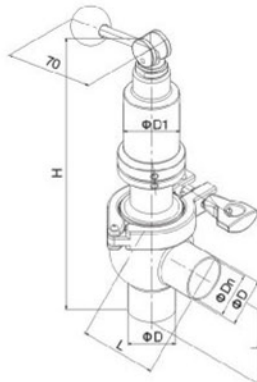
AV-9P Pneumatic Safety Valve

SIZE	D	Dn	D1	H	L
1"	25.4	22.4	45	269	50
1.5"	38.1	35.1	45	269	60
2"	50.8	47.8	51	309	70
2.5"	63.5	59.5	66	350	80
3"	76.2	72.2	66	392	99
4"	101.6	97.6	105	507	114



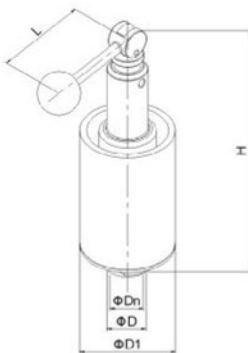
AV-9MW Manual Safety Valve with Butt-weld Ends

SIZE	D	Dn	D1	H	L
1"	25.4	22.4	45	222.5	50
1.25"	31.8	28.8	45	222.5	55
1.5"	38.1	34.8	45	240	60
2"	50.8	47.5	51	260	70
2.5"	63.5	59.5	66	285	80
3"	76.2	72.2	66	297	99



AV-9MC Manual Safety Valve with Tri-clamped Ends

SIZE	D	Dn	D1	H	L
1"	50.5	22.1	45	235	62.7
1.25"	50.5	28.8	45	235	67.7
1.5"	50.5	34.8	45	253	72.7
2"	64	47.5	51	273	82.7
2.5"	77.5	49.5	66	298	92.7
3"	91	72.2	66	310	111.7



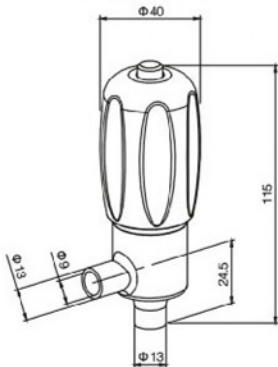
AV-9MQ Manual Quick-release Safety Valve

SIZE	D	Dn	D1	H	L
1"	25.4	22.4	45	269	50
1.5"	38.1	35.1	45	269	60
2"	50.8	47.8	51	309	70
2.5"	63.5	59.5	66	350	80
3"	76.2	72.2	66	392	99
4"	101.6	97.6	105	507	114

AV-9G The Safety Vent Valve with Glass

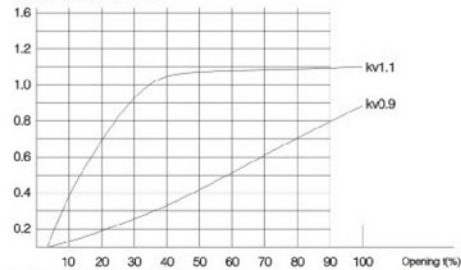
SIZE	D	Dn	D1	H	L
DN20	22	19	70	215	70
DN32	34	31	70	222.5	70
1.25"	31.8	28.8	7-	222.5	70

Mini-type Safety Valve



Safety valve 1/2" flow/opening f/diagram

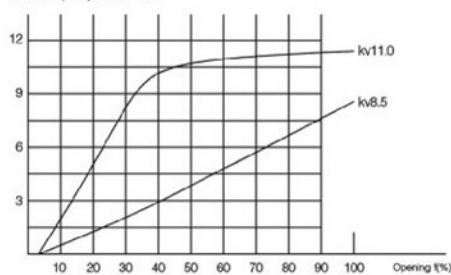
Flow Q (M³/h) $Q = KV \cdot \sqrt{\Delta P}$



Note: above diagram suit for the medium: water (20°C); measuring according to VDI 2173

Safety valve 1" flow/opening f/diagram

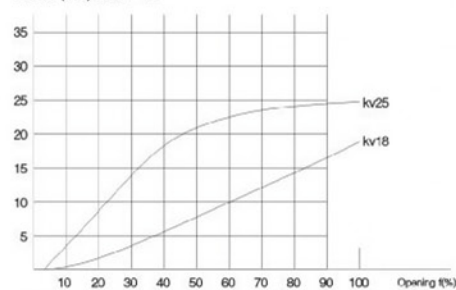
Flow Q (M³/h) $Q = KV \cdot \sqrt{\Delta P}$



Note: above diagram suit for the medium: water (20°C); measuring according to VDI 2173

Safety valve 1.5" flow/opening f/diagram

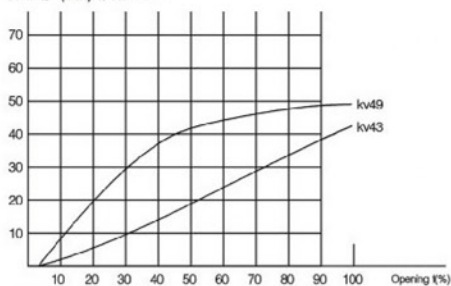
Flow Q (M³/h) $Q = KV \cdot \sqrt{\Delta P}$



Note: above diagram suit for the medium: water (20°C); measuring according to VDI 2173

Safety valve 2" flow/opening f/diagram

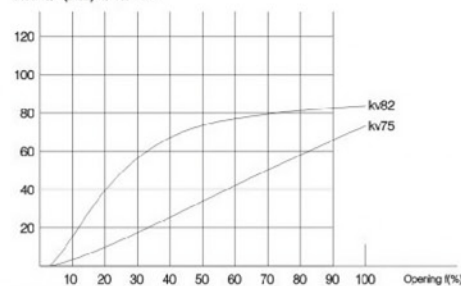
Flow Q (M³/h) $Q = KV \cdot \sqrt{\Delta P}$



Note: above diagram suit for the medium: water (20°C); measuring according to VDI 2173

Safety valve 2.5" flow/opening f/diagram

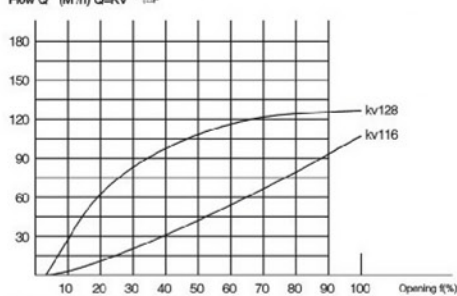
Flow Q (M³/h) $Q = KV \cdot \sqrt{\Delta P}$



Note: above diagram suit for the medium: water (20°C); measuring according to VDI 2173

Safety valve 3" flow/opening f/diagram

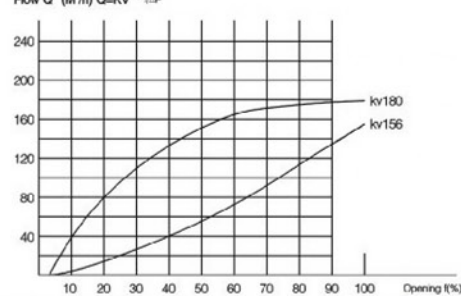
Flow Q (M³/h) $Q = KV \cdot \sqrt{\Delta P}$



Note: above diagram suit for the medium: water (20°C); measuring according to VDI 2173

Safety valve 4" flow/opening f/diagram

Flow Q (M³/h) $Q = KV \cdot \sqrt{\Delta P}$



Note: above diagram suit for the medium: water (20°C); measuring according to VDI 2173