→ Type 1940 / 1945

Type 1940 / 1945

Vent valve made of stainless steel with threaded connection



SUITABLE FOR

Air, gases and vapours	neutral
Steam	

EXAMPLES OF USE

Vent valve for pipelines, pipeline systems, vessels and heat exchangers, in which the pressure should not fall below atmospheric pressure.

- Vessel emptying
- Protection against vacuum build-up in tanks, piping systems, heat exchangers and vessels in steam plants

MATERIAL

SPECIFICATION

1/2“ to 2“	–60°C to + 225°C	-6 mbar to -800 mbar

NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Type 1940 / 1945: Connection, Installation dimensions, Weight

		1940				1945		
Nominal diameter	**DN**	15	20	25	50	15	20	25
	PN				40			
Screw-in connection thread	**G**	½" (15)	¾" (20)	1" (25)	2" (50)	½" (15)	¾" (20)	1" (25)
Inlet aperture (threaded)	**G1**	¼" (8)	½" (15)	¾" (20)	1½" (40)	¼" (8)	½" (15)	¾" (20)
Installation dimensions in mm	**H**	55,4	63,4	69	122,5	109,4	117	123
	H1	15	17	19	22	15	17	19
	A	36	52	64	94	36	52	64
	SW	36	52	64	88	36	52	64
Weight	**kg**	0,35	0,75	1,18	4,1	0,6	1,24	1,87
Range of adjustment	**mbar**	-6	-6	-6	-6	-100 to -800	-100 to -800	-100 to -800

MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Stainless steel	1.4408	316L
Outlet body	Stainless steel	1.4408	316L
Internal parts	Stainless steel	1.4408	316L

THREADED INLET / THREADED SUCTION CONNECTION

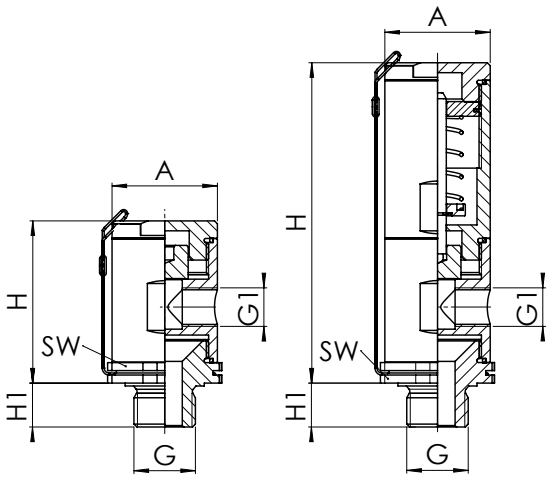
m/f	Standard	Male thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
f/f		Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1/DIN EN ISO 228-1
NPTm/f		Male thread NPT / Female thread BSP-P	ANSI B 1.20.1/DIN EN ISO 228-1
BSP-Tm/f		Male thread BSP-T / Female thread BSP-P	DIN EN 10226, ISO 7-1/DIN EN ISO 228-1

■ SEALS

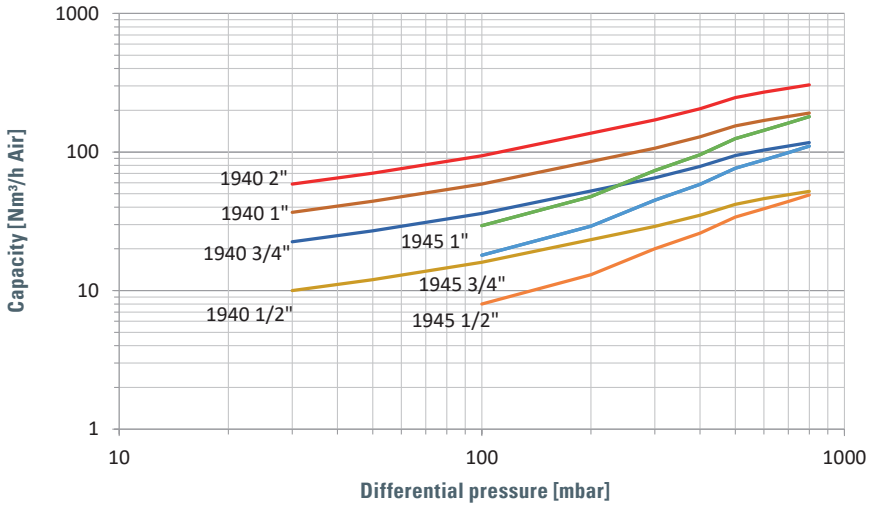
Primary seal	PTFE	Polytetraflouroethylene	-60°C to +225°C
Primary seal	MD*	Metallic seal	-60°C to +225°C
Secondary seal	PTFE	Polytetraflouroethylene	-60°C to +225°C

* only valid for the type 1940, DN15 to DN25

Type 1940/1945 ■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



■ CAPACITY CHART



Conversion: $Nm^3/h \times \frac{1000}{3600} = Nl/s$

Type 1940 opening at -6 mbar (=0,994 bar abs.)

The flow rate increases with rising differential pressure.

Example size 1“:

The flow rate at a differential pressure of 60 mbar amounts to 50 Nm^3/h air which corresponds to 13.9 Nl/s

The flow rate at a differential pressure of 200 mbar amounts to 82 Nm^3/h air which corresponds to 22.8 Nl/s

Type 1945 adjustable from -100 up to -800 mbar (from 0.9 to 0.2 bar abs.)

The flow rate is independent of the set pressure, however it increases with rising differential pressure.

Example size 1/2“:

The flow rate at a differential pressure of 100 mbar amounts to 8 Nm^3/h air which corresponds to 2.2 Nl/s

The flow rate at a differential pressure of 400 mbar amounts to 26 Nm^3/h air which corresponds to 7.2 Nl/s