

Vacuum breaker safety valve



Model 795

The valve acts as an automatic regulator of pressure drops and prevents the creation of a vacuum inside pressurised installations or vessels. In compliance with the ATEX 2014/34/EU directive "Protective equipment and systems for use in potentially explosive atmospheres".

Specifications

- Activated by direct action helicoid spring.
- Simplicity of construction ensuring minimum maintenance.
- Internal body designed to offer favourable flow profile.
- Soft seals giving greater tightness than that required by EN 12266-1, as long as the valve, in non operating conditions, is under equal or greater pressure than atmospheric pressure.
- Great discharge capacity.
- All the valves are supplied sealed at the set depressurising requested, simulating operational conditions, and are vigorously tested.
- All components are numbered, registered and checked. If requested in advance, material, casting, test and efficiency certificates will be enclosed with the valve.

IMPORTANT

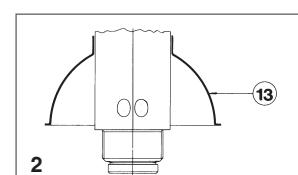
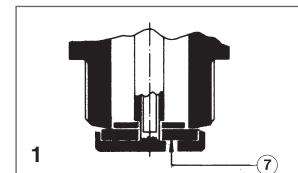
- 1.- Fluorelastomer (Viton) seals or Silicone's rubber, achieving leakage levels less than:

$$0,3 \times 10^{-3} \frac{\text{Pa cm}^3}{\text{seg.}}$$

as long as the valve, in non operating conditions, is under equal or greater pressure than atmospheric pressure.

Depending on demand:

- 1.- Buna-nitrils seals, Butyl, Natural rubber, E.P.D.M., Chlorosulphonate polyethylene (Hypalon), Neoprene, ...etc.
- 2.- The intake deflector prevents the entry of foreign bodies in the valve which will affect later operation. (Specially designed for moving transport).
- 3.- Possibility of manufacture in other types of material, for use in special working conditions (high temperatures, fluids,... etc.).



N.º PIECE	PIECE	MATERIAL	
		BRASS	STAINLESS STEEL
1	Body	Brass (EN-CW617N)	Stainless steel (EN-1.4401)
2	Spring press	Brass (EN-CW617N)	Stainless steel (EN-1.4305)
3	Spring	Stainless steel (EN-1.4310)	Stainless steel (EN-1.4310)
4	Shaft	Stainless steel (EN-1.4305)	Stainless steel (EN-1.4305)
5	Plug	Brass (EN-CW617N)	Stainless steel (EN-1.4401)
6, 8	Washer	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)
7	Seal	Fluorelastomer (Viton) (2) Silicone's rubber (3)	Fluorelastomer (Viton) (2) Silicone's rubber (3)
9	Nut	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)
10	Sealing wire	Sealing wire	Sealing wire
11	Characteristic plate	Aluminium	Aluminium
12	Seal	Plastic	Plastic
13	Deflector	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)
DN		3/8" to 1"	
PN		16	16
OPERATING CONDITIONS	PRESSURE IN bar	16	12
	MAXIMUM TEMP. IN °C	120	150
	MINIMUM TEMP. IN °C	-50	-50

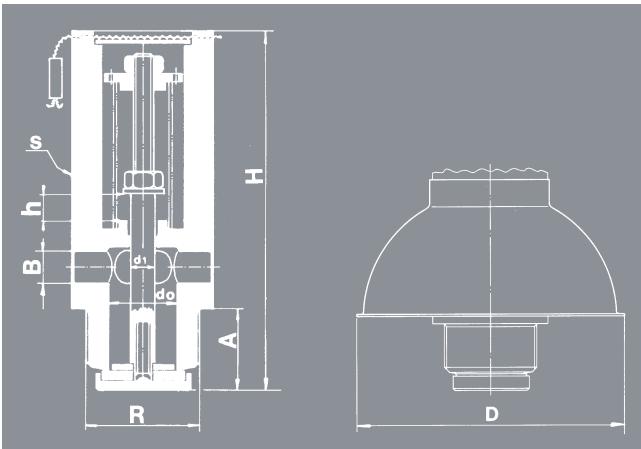
(1) For temperatures upper 150°C special seal. For temperatures upper 300°C special seal and spring.

(2) Recommended temperature field -30°C to + 150°C. Maximum pressure of service 12 bar.

(3) Recommended temperature field -50°C to + 115°C. Maximum pressure of service 9 bar.

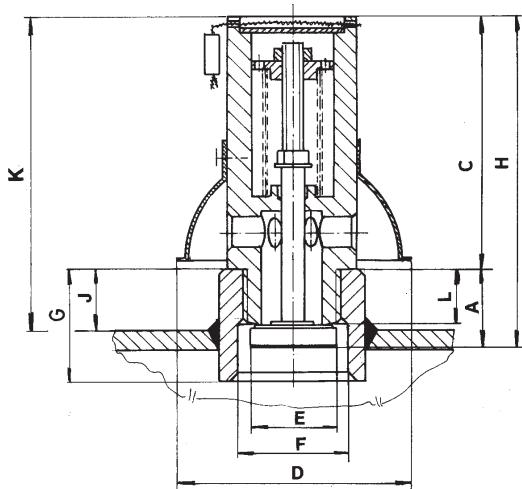
R	3/8"	1/2"	3/4"	1"
CONNECTIONS	Whitworth gas-tight cylindrical male thread ISO 228/1 (DIN-259)			
d0	9,50	12,50	16,50	20,00
$A_0 = \frac{\pi}{4} (d_0^2 - d_1^2)$	51,25	89,53	180,64	275,68
H	64	81	90	105
A	13,00	16,50	21,00	24,00
B	4,25	5,50	8,00	9,50
D	40	65	65	65
S	24	32	35 (36) *	40 (41) *
WEIGHT IN Kgs.	BRASS	0,15	0,36	0,46
	STAINLESS STEEL	0,19	0,34	0,51
CODE	BRASS 2002-795.	5381	5021	5341
	STAINLESS STEEL 2002-795.	5382	5022	5342
				5101

* Stainless steel (EN-1.4401).



Example of installation

R	H	A	C	L	E	F	D	K	G	J
3/8"	64	13,00	51,00	9	13,90	20,00	40	63	24	12,00
1/2"	81	16,50	64,50	12	17,80	25,50	65	80	32	15,50
3/4"	90	21,00	69,00	15	22,00	34,00	65	95	40	20,00
1"	105	24,00	81,00	18	27,50	42,00	65	106	50	25,00

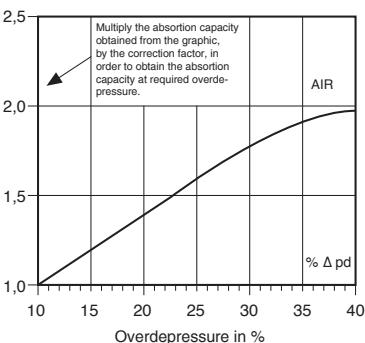
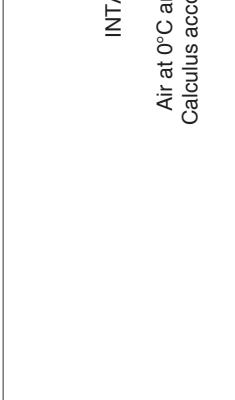
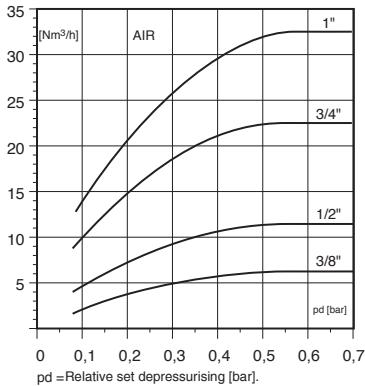
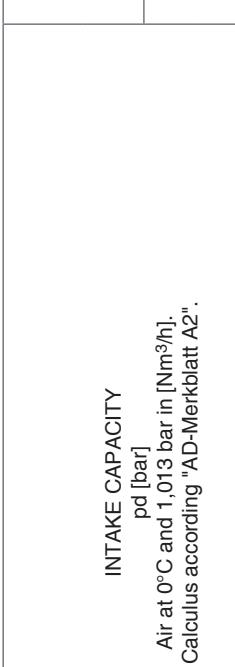
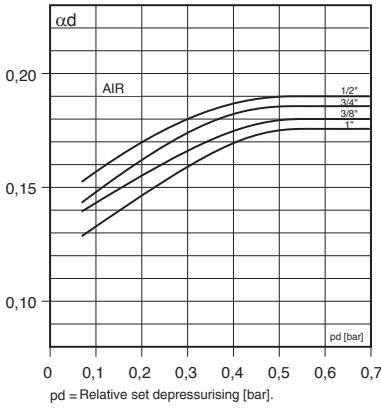


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www.vycindustrial.com
Avenc del Daví, 22 Pol. Ind. Can Petit 08227 TERRASSA (Barcelona) SPAIN
+34 93 735 76 90 119 info@vycindustrial.com

R	3/8"	1/2"	3/4"	1"
SET DEPRESSURISING IN bar	MAXIMUM	0,40	0,40	0,40
	MINIMUM	0,05	0,05	0,05
SPRING REGULATING RANGE IN bar	0,05 to 0,10	CODE	56187	56191
	0,09 to 0,20	CODE	56188	56192
	0,19 to 0,30	CODE	56189	56193
	0,29 to 0,40	CODE	56190	56194



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