

Vacuum breaker safety valve



Model 795

EN

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 94/9/CE 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

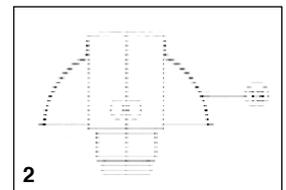
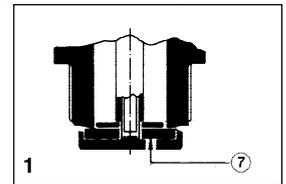
1.- Fluorelastomer (Vitón) seals or Silicone's rubber, achieving leakage levels less than

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

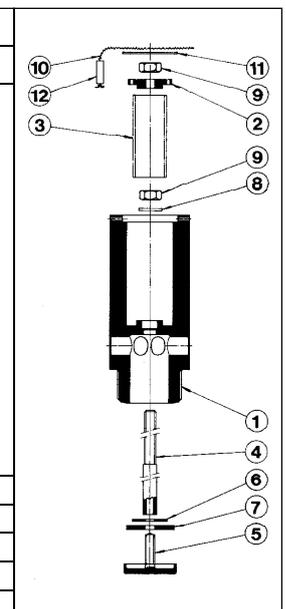
as long as the valve, in non operating conditions, is under equal or greater pressure than atmospheric pressure.

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.).



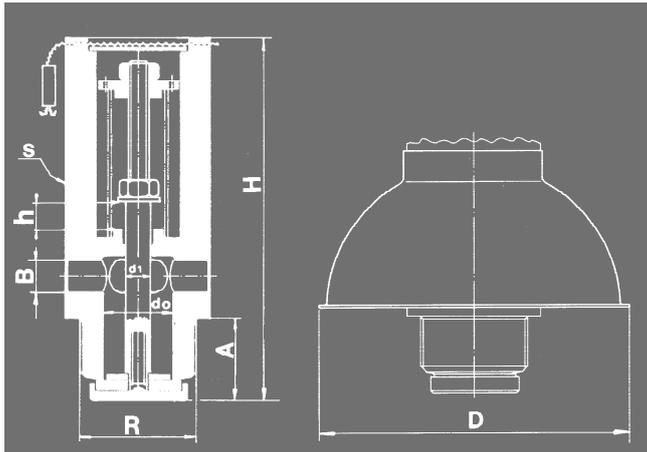
Nº. PIECE	PIECE	MATERIAL			
		BRASS		STAINLESS STEEL	
1	Body	Brass (EN-CW617N)		Stainless steel (EN-1.4401)	
2	Spring press	Brass (EN-CW617N)		Stainless steel (EN-1.4305)	
3	Spring	Stainless steel (EN-1.4310)		Stainless steel (EN-1.4310)	
4	Shaft	Stainless steel (EN-1.4305)		Stainless steel (EN-1.4305)	
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 (Vitón) (2) Silicone's rubber (3)		Fluorelastomer (Vitón) (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	16	12
	MAXIMUM TEMP. IN °C (1)	120	150	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.

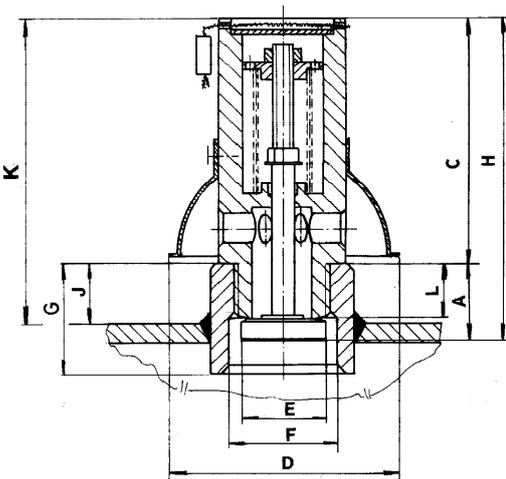
R		3/8"	1/2"	3/4"	1"
CONNECTIONS		Whitworth gas-tight cylindrical male thread ISO 228/1 1978 (DIN-259)			
d ₀		9,50	12,50	16,50	20,00
$A_0 = \frac{\pi}{4} (d_0^2 - d_1^2)$		51,25	89,53	180,64	275,68
H		64	81	90	105
A		13,00	16,50	21,00	24,00
B		4,25	5,50	8,00	9,50
D		40	65	65	65
S		24	32	35 (36)	40 (41)
WEIGHT IN kgs:	BRASS	0,15	0,36	0,46	0,78
	STAINLESS STEEL	0,19	0,34	0,51	0,80
CODE	BRASS 2002-795	5381	5021	5341	5101
	STAINLESS STEEL 2002-795	5382	5022	5342	5102

* Stainless steel (EN-1.4401).



Example of installation

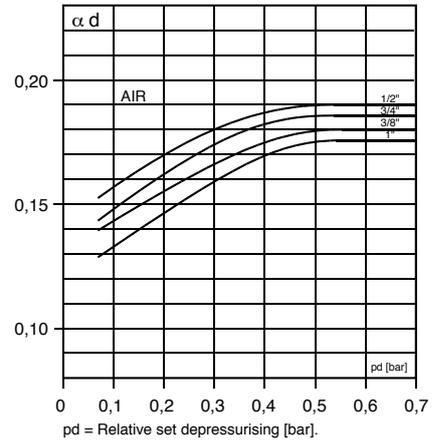
R	H	A	C	L	E	F	D	K	G	J
3/8"	64	13,00	51,00	9	13,90	20,00	40	63	24	12,00
1/2"	81	16,50	64,50	12	17,80	25,50	65	80	32	15,50
3/4"	90	21,00	69,00	15	22,00	34,00	65	95	40	20,00
1"	105	24,00	81,00	18	27,50	42,00	65	106	50	25,00



R		3/8"	1/2"	3/4"	1"
SET DEPRESSURISING IN bar	MAXIMUM	0,40	0,40	0,40	0,40
	MINIMUM	0,05	0,05	0,05	0,05
SPRING REGULATING RANGE IN bar	0,05 to 0,10	CODE 56187	56191	56195	56199
	0,09 to 0,20	CODE 56188	56192	56196	56200
	0,19 to 0,30	CODE 56189	56193	56197	56201
	0,29 to 0,40	CODE 56190	56194	56198	56202
d ₀		9,50	12,50	16,50	20,00
h		3,42	4,50	5,94	7,20
h/d ₀		0,36	0,36	0,36	0,36

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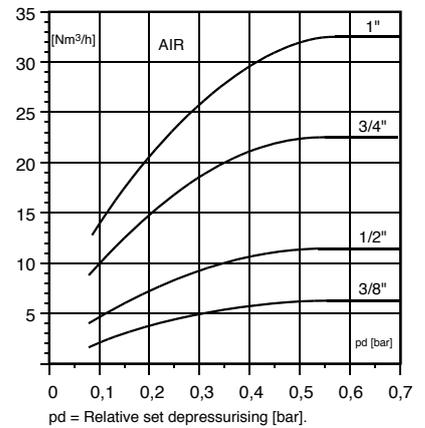


INTAKE CAPACITY

pd [bar]

Air at 0°C and 1,013 bar in [Nm³/h].

Calculus according "AD-Merkblatt A2".



OVERDEPRESSURE FACTORS

