

Full lift safety valve with spring loading. (AIT)



EN

Model 696



EP

AP

ES

CP

The valve works as an automatic pressure releasing regulator activated by the static pressure existing at the entrance to the valve and is characterized by its ability to open instantly and totally.

Design in accordance with "International Standard ISO 4126-1:2004 Safety Valves".

In accordance with the requirements of the pressure equipment directive 2014/68/EU.

EC valve verification certified by: TÜV Rheinland Industrie Service GmbH, Notified Body for Pressure Equipment ID-No. 0035.

Type (Module B) EC n° DEP-B-prod.001073-22 certified by: TÜV Rheinland Ibérica ICT, S.A.

In compliance with the ATEX 2014/34/EU directive "Protective equipment and systems for use in potentially explosive atmospheres".

Other authorisations: ISCIR, ITI, NASTHOL, EAC,...etc.

Specifications

- 90° angular flow.
- Activated by direct load for their resistance to corrosion. With the exception of washers and couplings, the valves are free of non-ferric materials.
- Internal body designed to offer favourable flow profile.
- Sealing surfaces treated and balanced, making them extremely tightness, even exceeding EN 12266-1 requirements.
- Great discharge capacity. For liquids typically used with openings similar to proportional safety valves.
- Equipped with draining screws for removing condensation.
- Auto-centering plug.
- Threaded shaft with lever positioner facilitating immediate manual action.
- Elevator, independent of the seal, designed facilitate sudden opening when the steam expands and, with any fluid, guarantees absolute opening and closing precision.
- All the valves are supplied sealed at the set pressure 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, and the instruction manual, in accordance with P.E.D. 2014/68/EU.

IMPORTANT

On request and according to quantity

1. Blocking screw which facilitates hydrostatic testing of the container which to beprotected.
2. Rapid limiter to reduce the coefficient of discharge
3. Fluorelastomer (Viton) seals, Silicone's rubber, PTFE (Teflon)... etc.,achieving leakage levels less than

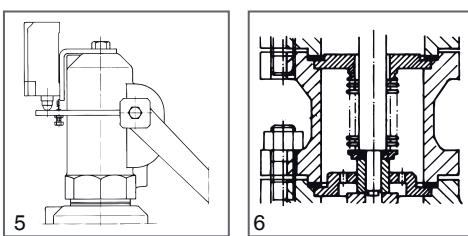
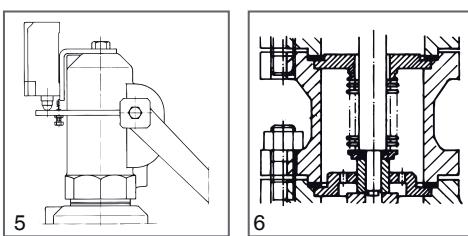
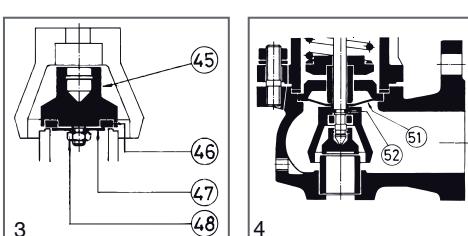
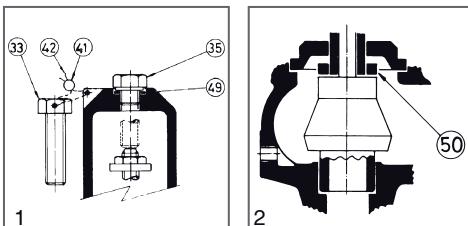
$$0,3 \times 10^{-3} \frac{\text{Pa cm}^3}{\text{seg}}$$

The ranges of application allow certain flexibility although we recommend limiting them to:

FLUID	RANGE OF APPLICATION FOR THE SEALS					
	SET PRESSURE IN bar					
Saturated	0,2	1,8	4,0	4,8	7,0	30,0
Liquids and gases	S	V	T			62,0
SEALS	ACCORDING TO MANUFACTURERS			RECOMMENDED BY VYC		
Silicone's rubber	S	MINIMUM -60	MAXIMUM +200	MINIMUM -50	MAXIMUM +115	
Fluorelastomer (Viton)	V	-40	+250	-30	+150	
PTFE (Teflon)	T	-265	+260	-80	+230 (1)	

(1) For temperatures exceeding 230°C apply metallic seal only

4. Fluorelastomer (Viton) membrane and O-ring isolating the rotating or sliding parts from the working fluid.
5. Electrical contact indicating open/closed.
6. Balance bellows to:
 - Protect the spring from atmospheric influences.
 - Ensure outside of valve body is totally tightness.
 - Level out external or self-generated back pressure.
7. Possibility of manufacture in other types of material, for special operating conditions (high temperatures, fluids, etc.).
8. Totally free of oil and grease, to work with oxygen, avoiding possible fire risks (UV-Oxygen-VBG 62).
9. Special springs for critical temperatures.



N.º PIECE	PIECE	MATERIAL	
		CAST STEEL	STAINLESS STEEL
1	Body	Cast steel (EN-1.0619+N)	Stainless steel (EN-1.4408)
2	Closed bell	Cast steel (EN-1.0619+N)	Stainless steel (EN-1.4408)
3	Open bell	Cast steel (EN-1.0619+N)	Stainless steel (EN-1.4408)
4, 5, 6	Hood	Nodular iron (EN-5.3106)	Stainless steel (EN-1.4408)
7	Elevator	Nodular iron (EN-5.3106) (1)	Stainless steel (EN-1.4408)(2)
8	Cam	Carbon steel (EN-1.0037)	Stainless steel (EN-1.4301)
9, 10	Lever	Carbon steel (EN-1.0037)	Carbon steel (EN-1.0037)
11	Seating	Carbon steel (EN-1.0460) (7)	Stainless steel (EN-1.4571) (8)
12	Plug	Stainless steel (EN-1.4028)	Stainless steel (EN-1.4542)
13	Lead	Stainless steel (EN-1.4028) (3)	Stainless steel (EN-1.4401) (4)
14	Spring press	Carbon steel (EN-1.1191)	Stainless steel (EN-1.4305)
15	Separator	Stainless steel (EN-1.4028)	Stainless steel (EN-1.4401)
16	Rod	Stainless steel (EN-1.4028)	Stainless steel (EN-1.4401)
17	Lever shaft	Carbon steel (EN-1.1191)	Stainless steel (EN-1.4305)
18	Gudgeon	Carbon steel (EN-1.1231)	Stainless steel (EN-1.4310)
19	Ring	Stainless steel (EN-1.4028)	Stainless steel (EN-1.4401)
20, 21	Safety ring	Stainless steel (EN-1.4310)	Stainless steel (EN-1.4310)
22	Spring	Vanadium chrome steel (EN-1.8159) (2)	Stainless steel (EN-1.4310) (6)
23	Gland	Carbon steel (EN-1.1191)	Stainless steel (EN-1.4305)
24	Hollow screw	Stainless steel (EN-1.4305)	Stainless steel (EN-1.4305)
25	Hollow screw nut	Stainless steel (EN-1.4305)	Stainless steel (EN-1.4305)
26	Buffer nut	Stainless steel (EN-1.4305)	Stainless steel (EN-1.4305)
27	Rod check nut	Carbon steel (EN-1.1141)	Stainless steel (EN-1.4401)
28, 29, 48	Nut	Carbon steel (EN-1.1141)	Stainless steel (EN-1.4401)
30, 31	Washer	Carbon steel (EN-1.1141)	Stainless steel (EN-1.4401)
32	Stud	Carbon steel (EN-1.1181)	Stainless steel (EN-1.4401)
33, 34, 35	Screw	Carbon steel (EN-1.1191)	Stainless steel (EN-1.4401)
36	Cap	Carbon steel (EN-1.1181)	Stainless steel (EN-1.4401)
38	Coupling	Graphite	PTFE (Teflon)
39	Coupling	PTFE (Teflon)	PTFE (Teflon)
40	Seal	Graphite	PTFE (Teflon)
41	Seal	Plastic	Plastic
42	Sealing wire	Sealing wire	Sealing wire
43	Characteristic plate	Stainless steel (EN-1.4301)	Stainless steel (EN-1.4301)
45	Plug	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)
46	Sealing disk	PTFE (Teflon)	PTFE (Teflon)
		Silicone's rubber	Silicone's rubber
		Fluorelastomer (Viton)	Fluorelastomer (Viton)
47	Washer	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)
49	Coupling	Copper	Copper
50	Limiter	Stainless steel (EN-1.4028)	Stainless steel (EN-1.4401)
51	Membrane	Fluorelastomer (Viton)	Fluorelastomer (Viton)
52	O-ring	Fluorelastomer (Viton)	Fluorelastomer (Viton)
DN1x DN2		25x32 to 300x400	
PN		160	
OPERATING CONDITIONS	PRESSURE [bar]	95	95
	MAX. TEMP. [°C]	420	400
	MIN. TEMP. [°C]	-10	-60

(1) DN-25x40 in stainless steel (1.4408).

(2) DN-32x50 a DN-80x125 in stainless steel (1.4401).

(3) From DN-150x250 to DN-300x400 in stainless steel (DIN-1.4027).

(4) From DN-150x250 to DN-300x400 in stainless steel (1.4408).

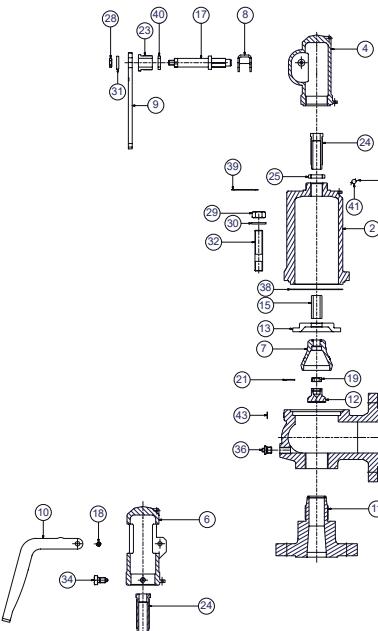
(5) DN-25x32 from 30 to 40 and 38 to 50 bar in Spring steel (EN-10270-1-SH), DN-25x40 from

30 to 40 bar in Spring steel (EN 10270-1 SH).Max temp. EP, ES and CP 250°C / AP 400°C. Over 400°C possibility of manufacturing the spring in another material if specified by the customer

(6) DN-25x40 from 60 to 78 , and from 75 to 95 bar in Stainless Steel (EN.1.4310).

(7) From DN-150x250 to DN-300x400 in Carbon steel (1.0619)

(8) From DN-150x250 to DN-300x400 in Stainless steel (1.4408)



FULL LIFT SAFETY VALVE WITH SPRING LOADING (AIT) MODEL 596 - EP.

1. Disassembly and assembly.

1.1 Disassembly.

To replace the spring (22), or clean any of the internal components of the valve, proceed in the following manner:

- A - Move the lever (9) in direction C as far as the constructive catcher.
- B - Unscrew the cap (4) and remove.
- C - Holding the spindle (16) steady, loosen the hollow screw nut (25) and the hollow screw (24) until you note a realeasing of the spring (22).
- D - Mark on the spindle (16) the position of the spindle lock-nut (27) and the adjusting nut (26). Loosen them and remove them.
- E - Unscrew the nuts (29) and remove them, together with the studs (32) and their washers (30).
- F - Lift the cover (2) and you will have access to all of the components.

1.2 Assembly.

- A - Place the safety-ring (20) on the spindle (16) and press it against the gasket (12).
- B - In the spindle channel (16) connect the ring (19) and fix it to the security-ring (21). Introduce the elevator (7) into the upper part of the spindle (16) and press this against the previously described pieces.
- C - Enter the guide (13), the separator (15), the spring-press (14), the spring (22), the spring-press (14) through the upper part of the spindle (16) in a correlative manner.
- D - Replace the assembly (38) and the cover (2).
- E - Place the washers (30) on the studs (32) and make up the nuts (29) diagonally, checking the correct alignment of the cover (2).
- F - Adjust the firing pressure with the hollow screw (24) and fix the adjustment position with the hollow screw nut (25).
- G - Turn the spindle lock-nut (27) and the adjusting nut (26) to the position marked (see 1.1.D) and make up against each other.
- H - Change the coupling (39) and lightly tighten the cap (4). Move the lever (9) towards position A as far as the constructive catcher. Definitively tighten the cap (4).

2. Adjusting the firing pressure.

- A - Proceed according to points 1.1.A, 1.1.B, 1.1.C.
- B - Proceed according to points 1.2.F, 1.2.H.

FULL LIFT SAFETY VALVE WITH SPRING LOADING (AIT) MODEL 596 - AP AND CP.

1. Disassembly and assembly.

1.1 Disassembly.

To replace the spring (22) or clean any of the internal components of the valve, proceed in the following manner:

- A - Withdraw the clip (18), using a punching tool, until the lever (10) comes free.
- B - Loosen the screws (34) and take the cap (6) off.
- C - Holding the spindle (16) steady, loosen the hollow screw nut (25) and the holow screw (24) until you note a realasing of the spring (22).
- D - Mark on the spindle (16) the position of the spindle lock-nut (27) and the adjusting nut (26). Loosen them and remove them.
- E - Unscrew the nuts (29) and remove them, together with the studs (32) and their washers (30).
- F - Lift the cover (3) or (2) and you will have access to all of the components.

1.2 Assembly.

- A - Place the safety-ring (20) on the spindle (16) and press it against the gasket (12).
- B - In the spindle channel (16) connect the ring (19) and fix it to the security-ring (21). Ilintroduce the elevator (7) into the upper part of the spindle (16) and press this against the previously described pieces.
- C - Enter the guide (13), the separator (15), the spring-press (14), the spring (22), the spring-press (14) through the upper part of the spindle (16) and press this against the previously desrcrobed pieces.
- D - Replace the assembly (38) and the cover (3) or (2).
- E - Place the washers (30) on the studs (32) and make up the nuts (29) diagonally, checking the correct alignment of the cover (3) or (2).
- F - Adjust the firing pressure with the hollow screw (24) and fix the adjustment position with the hollow screw nut (25).
- G - Turn the spindle lock-nut (27) and the adjusting nut (26) to the position mrked (see 1.1.D) and make up against each other.
- H - Introduce the cap (6) and tighten the screws (34).
- I - Place the lever (10) and fix it with the fastener (18).

2. Adjusting the firing pressure.

- A - Proceed according to points 1.1.A, 1.1.B, 1.1.C.
- B - Proceed according to points 1.2.F, 1.2.H, 1.2.I.

FULL LIFT SAFETY VALVE WITH SPRING LOADING (AIT) MODEL 596 - ES.

1. Disassembly and assembly.

1.1 Disassembly.

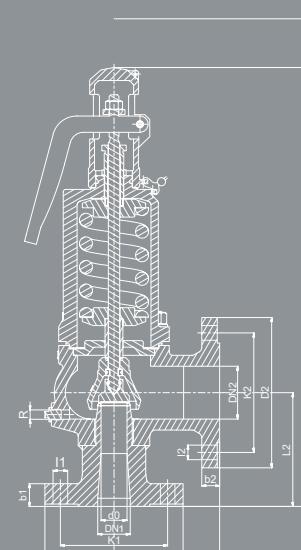
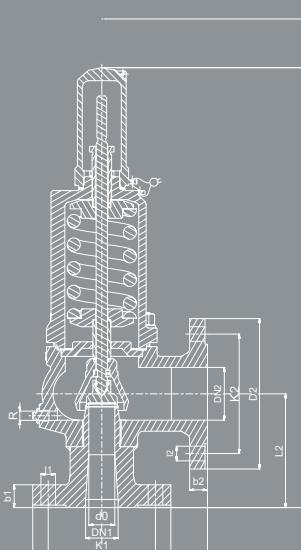
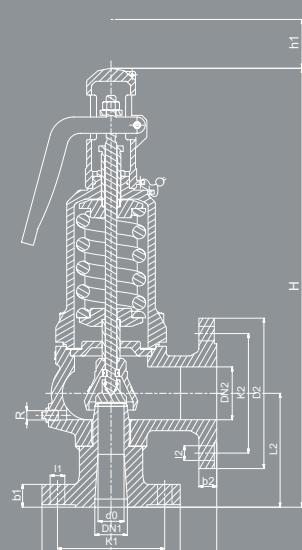
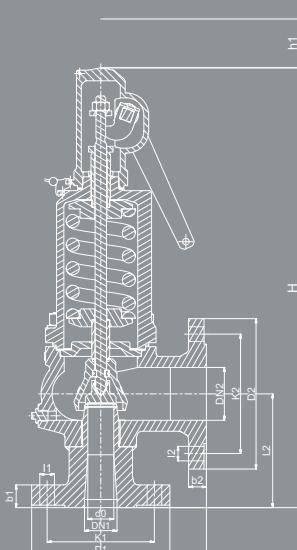
To replace the spring (22), or clean any of the internal components of the valve, proceded in the following manner:

- A - Unscrew the cap (5) and remove.
- B - Holding the spindle (16) steady, loosen the hollow screw nut (25) and the hollow screw (24) until you note a realeasing of the spring (22).
- C - Unscrew the nuts (29) and remove them, together with the studs (32) and their washers (30).
- F - Lift the cover (2) and you will have access to all of the components.
- A - Place the safety-ring (20) on the spindle (16) and press it against the gasket (12).
- B - In the spindle channel (16) connect the ring (19) and fix it to the security-ring (21).
- Introduce the elevator (7) into the upper part of the spindle (16) and press this against the previously described pieces.
- C - Enter the guide (13), the separator (15), the spring-press (14), the spring (22), the spring-press (14) through the upper part of the spindle (16) in a correlative manner.
- D - Replace the washers (38) and the cover (2).
- E - Place the washers (30) on the studs (32) and make up the nuts (29) diagonally, checking the correct alignment of the cover (2).
- F - Adjust the firing pressure with the hollow screw (24) and fix the adjustment position with the hollow screw nut (25).
- G - Change the coupling (39) and tighten the cap (5).

2. Adjusting the firing pressure.

- A - Proceed according to points 1.1.A, 1.1.B.
- B - Proceed according to points 1.2.F, 1.2.G.B - Proceder conforme al punto 1.2.F, 1.2.G.

DN1x DN2		25x40		32x50		40x65		50x80		65x100		80x125	
do		16		20		25		32		40		50	
Ao		201		314		491		804		1257		1964	
H		420		480		540		650		685		800	
h1		150		175		175		225		225		225	
L1		100		110		130		145		155		190	
L2		120		125		140		150		165		185	
R		1/4"		1/4"		1/4"		1/4"		3/8"		3/8"	
Whitworth gas-tight cylindrical float valve													
WEIGHT IN kg.		ESCAPE FLANGE		INTAKE FLANGE		PN-40 EN 1092-1 (1) (2)		PN-160 EN 1092-1 (1) (2) (3) (4)					
CODE		MODEL		EP		AP		ES		CP			
CAST STEEL STAINLESS STEEL		CAST STEEL 2002-696.		0102		0104		12,00					
STAINLESS STEEL 2002-696.				01021		01041		11,40					
				01022		01042		11,60					
				01023		01043		11,80					
				0142		0144		14,00					
				01421		01441		13,40					
				01422		01442		13,60					
				01423		01443		13,80					
				0122		0124		19,00					
				01221		01241		18,40					
				01222		01242		18,60					
				01223		01243		18,80					
				0202		0204		28,00					
				02021		02041		27,40					
				02022		02042		27,60					
				02023		02043		27,80					
				0222		0224		40,00					
				02221		02241		39,40					
				02222		02242		39,60					
				02223		02243		39,80					
				0302		0304		50,00					
				03021		03041		49,40					
				03022		03042		49,60					
				03023		03043		49,80					



100x150		125x200		150x250		200x300		250x350		300x400	
63		77		93		110		155		180	
3117		4657		6793		9503		18870		25450	
840		980		1180		1300		1400		1575	
225		305		400		400		425		520	
210		215		225		265		300		335	
200		220		245		290		340		370	
3/8"		1/2"		1/2"		1/2"		3/4"		3/4"	
female thread ISO 228/1 (DIN-259)											
265		315		345		375		425		485	
210		250		280		320		370		430	
30		33		33		30		30		30	
40		40		36		34		32		34	
8		8		8		12		12		16	
300		360		395		445		505		565	
250		310		350		400		460		515	
26		26		22		22		22		26	
28		30		26		26		26		26	
8		12		12		12		16		16	
EP	AP	ES	CP	EP	AP	ES	CP	EP	AP	ES	CP
0402	0404	80,00		04021	04041	79,40		04022	04042	79,60	
04023	04043	79,80		0502	0504	126,00		05021	05041	125,40	
05022	05042	125,60		05023	05043	125,80		0602	0604	135,00	
06021	06041	134,40		06022	06042	134,60		06023	06043	134,80	
0802	0804	170,00		08021	08041	169,40		08022	08042	169,60	
08023	08043	169,80		0002	0004	270,00		00021	00041	269,40	
00022	00042	269,60		00023	00043	269,80		0022	0024	370,00	
00221	00241	369,40		00222	00242	369,60		00223	00243	369,80	

Escape flange

- (1) DN-125x200 PN-25
- (2) From DN-150x250 to DN-300x400 PN-10

Intake flange

- (1) DN-32x50 y DN-125x200 PN-100
- (2) DN-150x250 PN-63
- (3) DN-200x300 PN-40
- (4) From DN-250x350 to DN-300x400 PN-25

RECOMMENDED RANGES OF APPLICATION												
MODEL				EP	AP _(t)	ES	CP _(t)	OPENING AND CLOSING PRESSURES IN % OF THE TRIPPING PRESSURE				
PERMISSIBLE BACK PRESSURE IN % OF SET PRESSURE	FLUID	SATURATED STEAM	GASES	*	*	*	*	OPENING AND CLOSING PRESSURES IN % OF THE TRIPPING PRESSURE				
		LIQUIDS	LIQUIDS	*	*	*	*					
INTERNAL OR GENERATED	SATURATED STEAM GASES	15				LIQUIDS	5				LIQUIDS	
	LIQUIDS	—					—					
EXTERNAL VARIABLE (1)	SATURATED STEAM GASES	50				LIQUIDS	90				LIQUIDS	
	LIQUIDS	—					—					
EXTERNAL CONSTANT (1) (2) (3)	SATURATED STEAM GASES	10				LIQUIDS	25				LIQUIDS	
	LIQUIDS	—					—					
% OVERPRESSURE	SATURATED STEAM GASES	10				25				%		
OVERPRESSURE	LIQUIDS	—				—				%		

FLUID	PRESSURE IN bar	OPENING PRESSURE	CLOSING PRESSURE
SATURATED STEAM GASES	≤3	+5%	- 0,3 bar
	≥3	+5%	- 10 %
LIQUIDS	≤3	+10%	- 0,6 bar
	≥3	+10%	- 20 %

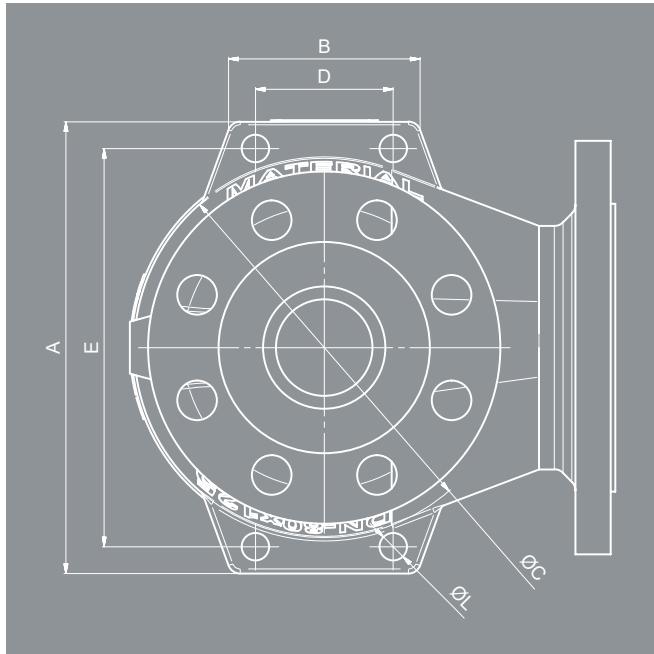
- (1) If external backpressure exists, the AP and CP model cannot be used.
 - (2) With external constant backpressure, the spring is adjusted deducting the backpressure from the set pressure.
 - (3) If the set pressure < 3 bar we must consider the total atmospheric pressure (1 bar) as external constant backpressure being freely released.
 - If $p_a > 0,25p$, we must limit plug speed with the consequent reduction of the ad coefficient of discharge.
 - With the new reduced coefficient we determine the d_0 , in order to remove the necessary volume.
- p_a = Backpressure permitted [bar] absolute
 p = Set pressure [bar] absolute.
 d_0 = Coefficient of discharge.

DISCHARGE CAPACITY

DN1 x DN2	25x40			32x50			40x65			50x80		
do	16			20			25			32		
$A_0 = \frac{\pi \cdot do^2}{4}$	201			314			491			804		
p [bar]	I - Saturated steam in Kg/h.. II - Air at 0°C and 1,013 bar in [Nm3/h]. III - Water at 20°C in l/h..			$V_L = \sqrt{\frac{Q_A}{Q_L}} \cdot V_A \quad \text{ó} \quad V_A = V_L \cdot \sqrt{\frac{Q_L}{Q_A}}$			$V_A = \text{Water flow according to table.}$ $V_L = \text{Liquid flow.}$ $V_A = \text{Water density at a } 20^\circ\text{C.}$ ($V_A = 998 \text{ Kg/m}^3$). $V_L = \text{Liquid density.}$					
SET PRESSURE IN bar	I	II	III	I	II	III	I	II	III	I	II	III
0,2												
0,5												
1,0												
1,5												
2,0												
2,5												
3,0												
3,5												
4,0												
4,5												
5,0												
5,5												
6,0												
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46,0												
48,0												
50,0												
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54,0												
56,0												
58,0												
60,0												
62,0	3650	6100	33666	5702	9529	52592	8916	14900	82238	14599	24399	134663
64,0	3707	6293	34205	5792	9831	53434	9056	15373	83555	14829	25173	136819
66,0	3764	6487	34735	5880	10134	54263	9194	15846	84850	15056	25948	138940
68,0	3820	6681	35258	5967	10436	55079	9331	16319	86127	15279	26722	141030
70,0	3875	6874	35772	6053	10739	55883	9465	16792	87384	15499	27497	143090
72,0	3929	7068	36280	6138	11041	56676	9597	17265	88624	15715	28271	145120
74,0	3982	7261	36780	6221	11344	57458	9728	17738	89847	15929	29046	147122
76,0	4035	7455	37274	6303	11646	58229	9857	18211	91053	16140	29821	149097
78,0	4087	7649	37762	6385	11949	58991	9984	18684	92244	16348	30595	151046
80,0	4139	7842	38243	6465	12251	59742	10110	19157	93419	16554	31370	152971
82,0	4189	8036	38718		12554	60485	10234	19630	94580	16757	32144	154872
84,0	4239	8230	39187		12856	61218	10356	20103	95726	16958	32919	156749
86,0	4289	8423	39651		13159	61943	10477	20576	96859	17156	33693	158605
88,0	4338	8617	40110		13461	62659	10597	21049	97979	17352	34468	160439
90,0	4387	8811	40563		13764	63367	10715	21522	99087	17546	35242	162252
92,0	4434	9004	41011		14066	64067	10833	21995	100182	17738	36017	164045
94,0	4482	9198	41455		14369	64760	10948	22468	101265	17928	36792	165819
95,0	4505	9295	41675		14520	65104	11006	22705	101802	18022	37179	166698

SET PRESSURES AND REGULATING RANGES														
DN1x DN2			25x40	32x50	40x65	50x80	65x100	80x125	100x150	125x200	150x250	200x300	250x350	300x400
SET PRESSURES IN bar	MAXIMUM (LIQUIDS AND GASES)	PN-160	95	95	95	95	95	78	62	40	32	20	12	10
	MAXIMUM (SATURATED STEAM)	PN-160	95	80	95	95	95	78	62	40	32	20	12	10
	MINIMUM	STEAM AND GASES	60	60	60	60	60	48	38	23	18	9,5	7,5	7,5
		LIQUIDS	60	60	60	60	60	48	38	23	18	9,5	7,5	7,5
SPRING REGULATING RANGE IN bar	7,50 to 10,00	CODE	-	-	-	-	-	-	-	-	-	56617	56634	
	9,50 to 12,50	CODE	-	-	-	-	-	-	-	-	-	56614	56618	
	12,00 to 16,00	CODE	-	-	-	-	-	-	-	-	-	56615	-	
	15,00 to 20,00	CODE	-	-	-	-	-	-	-	-	-	56616	-	
	18,00 to 25,00	CODE	-	-	-	-	-	-	-	-	-	56612	-	
	23,00 to 32,00	CODE	-	-	-	-	-	-	-	56610	56613	-	-	
	30,00 to 40,00	CODE	-	-	-	-	-	-	-	56611	-	-	-	
	38,00 to 50,00	CODE	-	-	-	-	-	-	56608	-	-	-	-	
	48,00 to 62,00	CODE	-	-	-	-	-	56606	56609	-	-	-	-	
	60,00 to 78,00	CODE	56596 56624	56598	56600	56602	56604	56607	-	-	-	-	-	
	75,00 to 95,00	CODE	56597 56625	56599	56601	56603	56605	-	-	-	-	-	-	

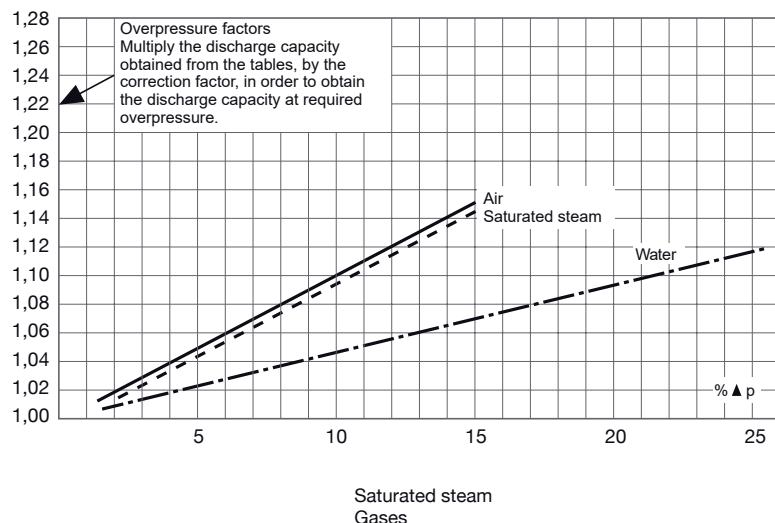
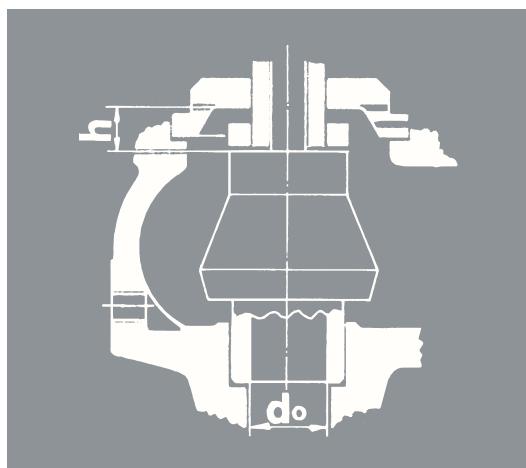
- Spring steel EN-10270-1-SH
- Vanadium-chrome steel EN-1.8159
- Stainless steel EN-1.4310



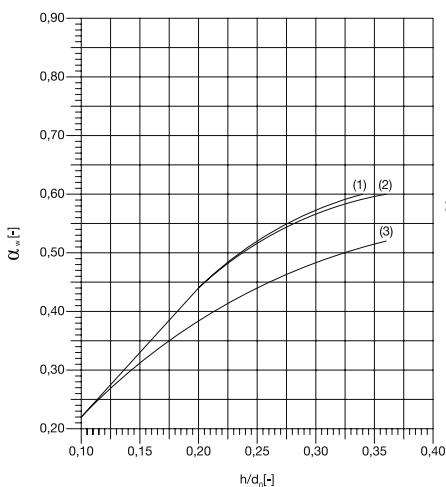
SUPPORT BRACKETS DIMENSIONS								
DN1xDN2	A	B	C	D	E	L	THICKNESS	DRILLS N°
40x65	186	96	147	70	156	14	13,5	4xM12
50x80	210	98	166	70	180	14	14	4xM12
65x100	250	100	200	70	220	14	14	4xM12
80x125	295	125	248	90	260	18	16	4xM16
100x150	344	129	292	90	309	18	17	4xM16
125x200	374	129	309	90	339	18	17	4xM16
150x250	440	184	370	120	400	18	20	4xM16
200x300	530	188	459	130	494	23	20	4xM20
250x350	664	195	581	160	624	23	20	4xM20
300x400	710	215	616	180	655	23	23	4xM20
400x500	880	238	760	200	820	23	23	4xM20

Support brackets will only be drilled if specified by the customer

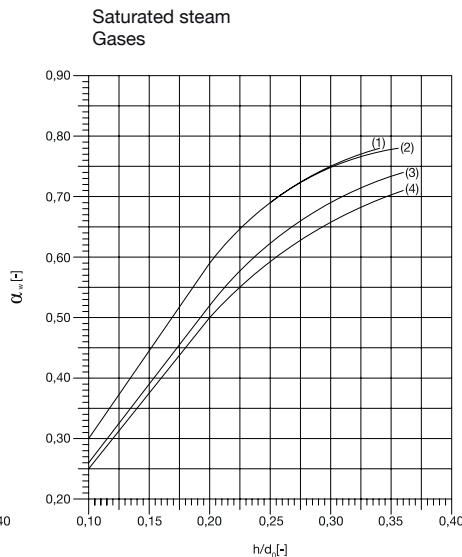
COEFFICIENT OF DISCHARGE												
DN1x DN2	25x40	32x50	40x65	50x80	65x100	80x125	100x150	125x200	150x250	200x300	250x350	300x400
do	16	20	25	32	40	50	63	77	93	110	155	180
h	7,00	9,00	12,00	12,00	18,00	18,00	20,00	29,00	34,40	36,80	56,15	64,80
h1	2,60	3,20	4,00	5,20	6,50	8,00	10,00	12,50	16,74	19,80	27,90	32,40
h/do	0,44	0,45	0,48	0,38	0,45	0,36	0,32	0,38	0,37	0,33	0,36	0,36
h1/do (1)	0,16	0,16	0,16	0,16	0,16	0,16	0,16	0,16	0,18	0,18	0,18	0,18
COEFFICIENT OF DISCHARGE k_d	SATURATED STEAM GASES	0,78									0,74	
	LIQUIDS	0,60									0,52	
	LIQUIDS WITH RAPID LIMITER(1)	0,36										



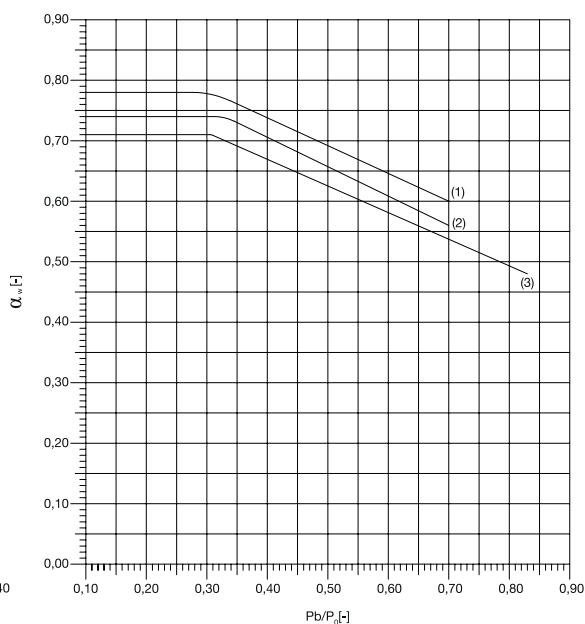
Liquids



- (1) d_0 16-63
- (2) d_0 77
- (3) d_0 93-155



- (1) d_0 16-77
- (2) d_0 93-110
- (3) d_0 155-180
- (4) d_0 220-280



- (1) d_0 16-110
- (2) d_0 155-180
- (3) d_0 220-280

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