

SAFETY VALVES

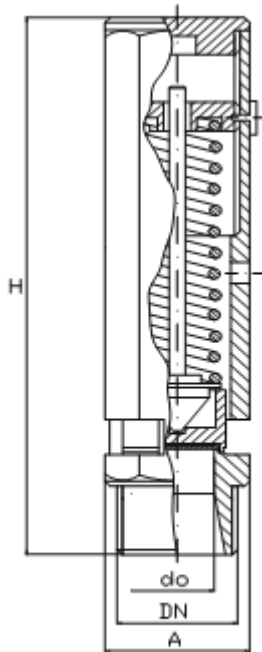


universal

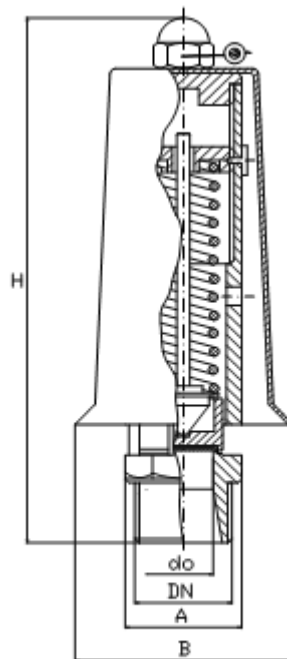
SAFETY VALVES WITH FREE DISCHARGE / VALVOLE A SCARICO LIBERO

TYPE / TIPO S10 / S15 / H10

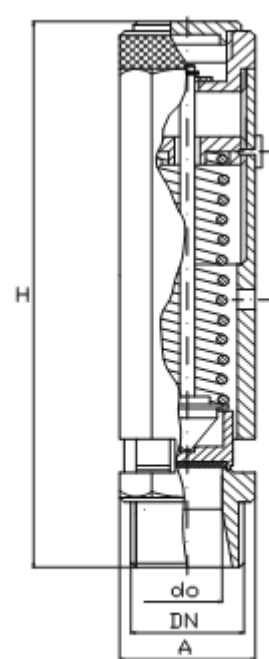
TYPE "N"



TYPE "P"



TYPE "A"



MATERIALS / MATERIALE

EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N
EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5
316 L STAINLESS STEEL / ACCIAIO INOX 316 L

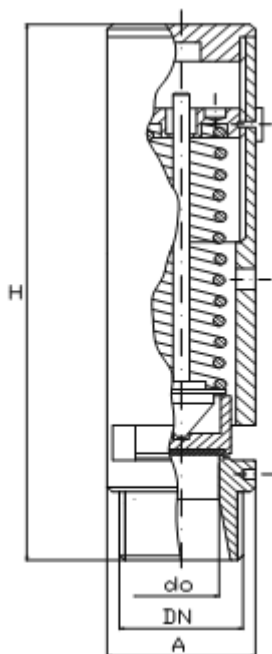
SEAT GASKET / TENUTA

NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE

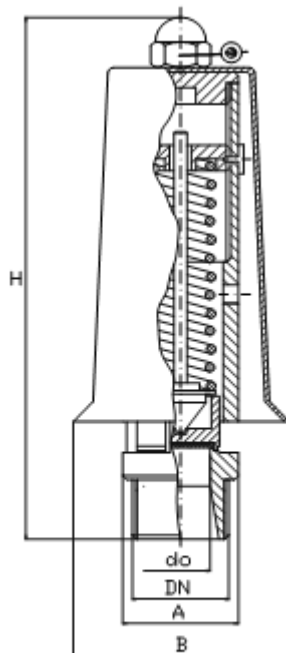
Type / Tipo	d0 Ø mm.	DN "G.	A mm.	B Ø mm.	H mm.	Weight Peso Kg.	K	Lift / Alzata mm.	PN	Set pressure adjustment range / Campo di taratura bar
S10N	10	3/8 - 1/2	Hex / ES. ch.22	-	84	0,185	0,84	4,5	40	0,4 ÷ 30
S10P				44	101	0,235				
S10A				-	90	0,200				
S15N	14,2	1/2 - 3/4	Hex / ES.ch.28 / Ø 28	-	118	0,410	0,84	6,5	40	0,4 ÷ 30
S15P				53	136	0,475				
S15A				-	124	0,420				
H10N	10	1/2 - 3/4	Hex / ES.ch.28 / Ø 28	-	118	0,430	0,96	6,5	100	2,0 ÷ 100
H10P				53	136	0,495				
H10A				-	124	0,440				

SAFETY VALVES WITH FREE DISCHARGE / VALVOLE A SCARICO LIBERO TYPE / TIPO S20 / H15

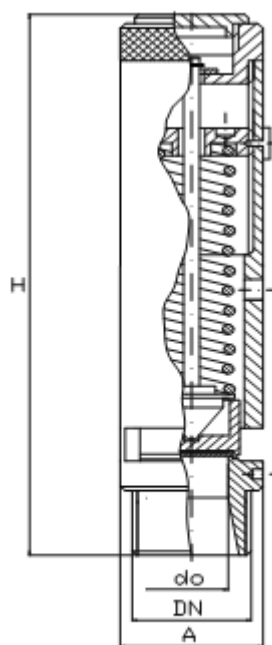
TYPE “N”



TYPE “P”



TYPE “A”



MATERIALS / MATERIALE

EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N
EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5
316 L STAINLESS STEEL / ACCIAIO INOX 316 L

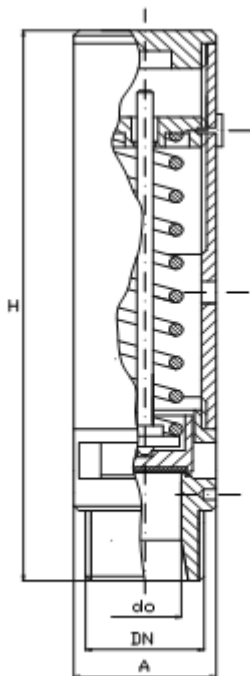
SEAT GASKET / TENUTA

NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE

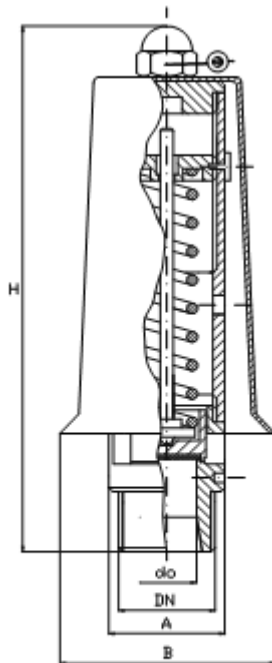
Type / Tipo	d0 Ø mm.	DN "G.	A mm.	B Ø mm.	H mm.	Weight Peso Kg.	K	Lift / Alzata mm.	PN	Set pressure adjustment range / Campo di taratura bar
S20N	19,2	1	Hex / ES.ch.36 / Ø 40	-	155	0,990	0,84	8	40	0,4 ÷ 30
S20P				70	172	1,070				
S20A				-	166	1,060				
H15N	14,2	¾ - 1	Hex / ES.ch.36 / Ø 40	-	155	1,040	0,96	8	100	2,0 ÷ 100
H15P				70	172	1,120				
H15A				-	166	1,110				

SAFETY VALVES WITH FREE DISCHARGE / VALVOLE A SCARICO LIBERO TYPE / TIPO S25 / S32 / S40

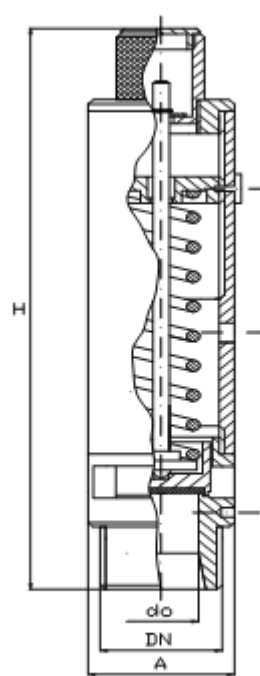
TYPE "N"



TYPE "P"



TYPE "A"



MATERIALS / MATERIALE

EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N
EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5
316 L STAINLESS STEEL / ACCIAIO INOX 316 L

SEAT GASKET / TENUTA / JOINT

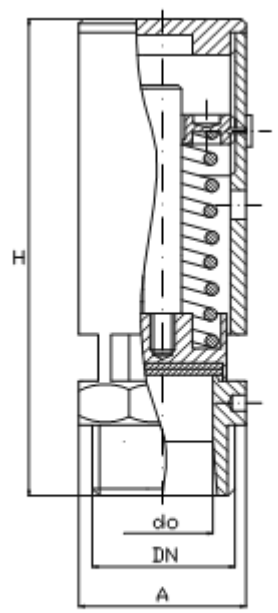
NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE

Type / Tipo	d0 Ø mm.	DN "G.	A mm.	B Ø mm.	H mm.	Weight Peso Kg.	K	Lift / Alzata mm.	PN	Set pressure adjustment range / Campo di taratura bar
S25N	24,2	1	Ø48	-	177	1,310	0,84	10	40	0,4 ÷ 30
S25P		1 1/4		85	204	1,510				
S25A		1 1/2		-	209	1,500				
S32N	31,2	1 1/4	Ø60	-	213	2,320	0,84	12	40	0,4 ÷ 30
S32P		1 1/2		105	240	2,570				
S32A		2		-	245	2,500				
S40N	38	1 1/2 2	Ø73	-	248	3,920	0,84	14	40	0,4 ÷ 30
S40P				125	275	4,240				
S40A				-	280	4,100				

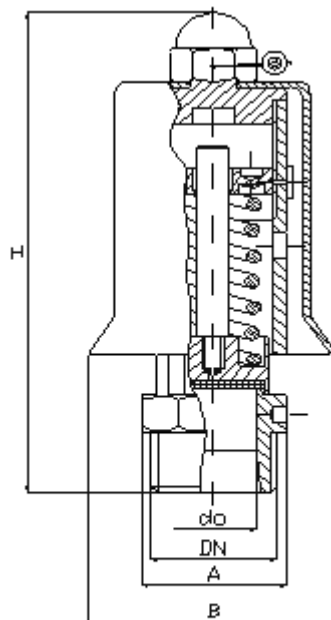
SAFETY VALVES WITH FREE DISCHARGE / VALVOLE A SCARICO LIBERO

TYPE / TIPO R20 / R30 / R40

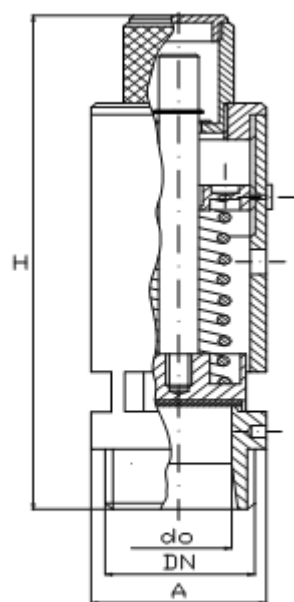
TYPE "N"



TYPE "P"



TYPE "A"



MATERIALS / MATERIALE

EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N
EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5
316 L STAINLESS STEEL / ACCIAIO INOX 316 L

SEAT GASKET / TENUTA

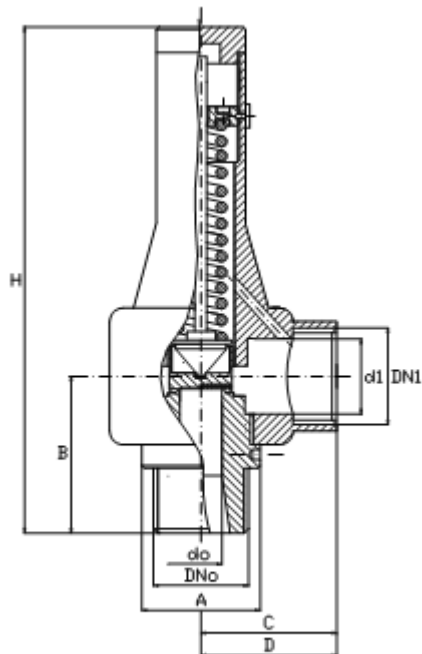
NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE

Type / Tipo	d0 Ø mm.	DN "G.	A mm.	B Ø mm.	H mm.	Weight Peso Kg.	K	Lift / Alzata mm.	PN	Set pressure adjustment range / Campo di taratura bar
R20N	20	1	Ø35 / 36 Hex. Ch36	-	96	0,420	0,83	9	6	0,4 ÷ 6,0
R20P				60	113	0,480				
R20A				-	108	0,490				
R30N	30	1 1/4 1 1/2	Ø50 Hex. Ch50	-	110	0,840	0,77	13	6	0,4 ÷ 6,0
R30P				75	136	0,990				
R30A				-	142	1,100				
R40N	38	1 1/2 2	Ø60 Hex. ch60	-	125	1,190	0,71	16	6	0,4 ÷ 6,0
R40P				87	152	1,360				
R40A				-	157	1,450				

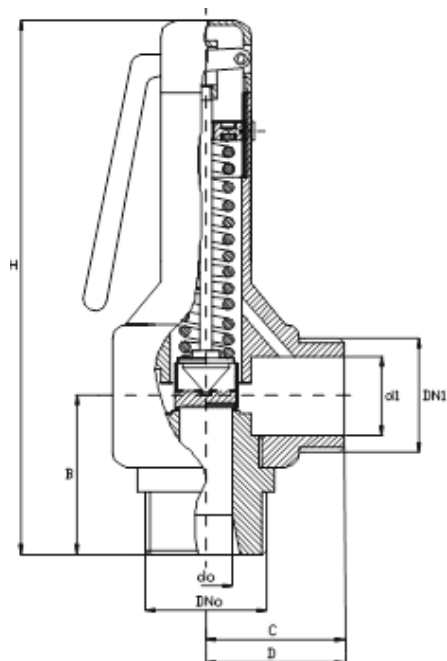
SAFETY VALVES WITH CONVEYED DISCHARGE / VALVOLE A SCARICO CONVOGLIATO

TYPE / TIPO S15 / S20 / H10 / H15

TYPE "C"



TYPE "CL"



MATERIALS / MATERIALE

CuZn38AlFeNiPbSn BRASS / OTTONE CuZn38AlFeNiPbSn
EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N
EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5
316 L STAINLESS STEEL / ACCIAIO INOX 316 L

SEAT GASKET / TENUTA

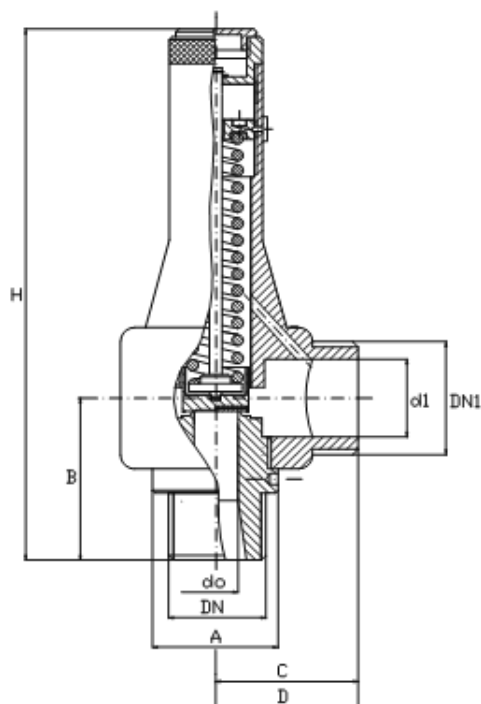
NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE / METAL TO METAL

Type / Tipo	d0 Ø mm.	DN "G.	d1 Ø mm	DN1 "G.	A mm.	B Ø mm.		C mm.		D Ø mm.		H mm.		WEIGHT Kg.	
						BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L
S15C	14,2	1/2 F	20	3/4" F	32	42	47	37	47	41	54	142	147	0,950	1,020
S15CL		3/4 M		1 M								155	160	1,020	1,080
S20C	19,2	3/4 F	26	1 1/4	40	51	54	46	54	53	60	192	195	2,050	1,950
S20CL		1 M		1 1/2								209	212	2,230	2,100
H10C	10	1/2 M	20	3/4" F	32	42	47	37	47	41	54	124	147	1,000	1,070
H10CL		3/4 M		1 M								155	160	1,070	1,130
H15C	14,2	3/4 F	26	1" F	40	51	54	46	54	53	60	192	195	2,150	2,050
H15CL		1 M		1 1/2 M								209	212	2,330	2,200

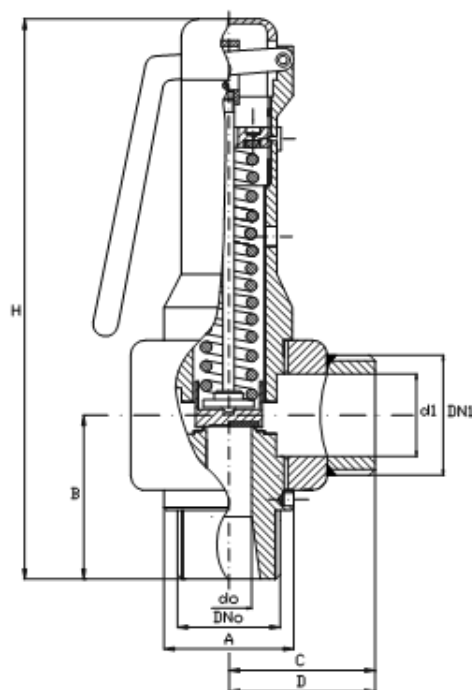
Type / Tipo	K	LIFT mm.	PN	Set pressure adjustment range / Campo di taratura bar
S15C/CL	0,82	6,5	IN 40 / OUT 16	0,4 ÷ 30
S20C/CL	0,82	8	IN 40 / OUT 16	0,4 ÷ 30
H10C/CL	0,95	6,5	IN 100 / OUT 16	2,0 ÷ 100
H15C/CL	0,95	8	IN 100 / OUT 16	2,0 ÷ 100

SAFETY VALVES WITH CONVEYED DISCHARGE / VALVOLE A SCARICO CONVOGLIATO TYPE / TIPO S25 / S32 / S40

TYPE "C"



TYPE "CL"



MATERIALS / MATERIALE

CuZn38AlFeNiPbSn BRASS / OTTONE CuZn38AlFeNiPbSn
EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N
EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5
316 L STAINLESS STEEL / ACCIAIO INOX 316 L

SEAT GASKET / TENUTA

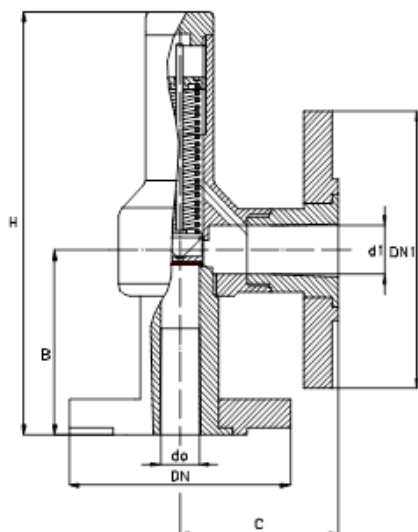
NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE / METAL TO METAL

Type / Tipo	d0 Ø mm.	DN "G.	d1 Ø mm	DN1 "G.	A mm.	B Ø mm.		C mm.		D Ø mm.		H mm.		WEIGHT Kg.	
						BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L
S25C	24,2	1 1/4	32	1"1/4 F 11/2 M	50	60	62	60	62	67	70	217	219	3,800	3,300
S25CL												236	238	4,000	3,350
S32C	31,2	1 1/2	38	1"1/2 F 2 M	60	68	69	61	69	68	76	260	261	5,200	4,500
S32CL												283	284	5,300	4,500
S40C	38	2	48	2" F 2 1/2 M	70	78	77	71	77	80	85	300	299	7,300	6,200
S40CL												325	324	7,300	6,200

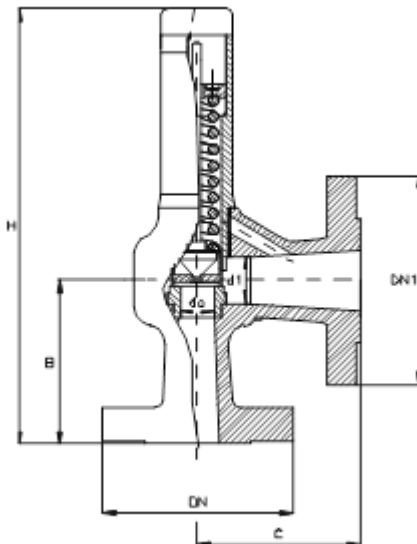
Type / Tipo	K	LIFT mm.	PN	Set pressure adjustment range / Campo di taratura bar
S25C/CL	0,82	10	IN 40 / OUT 16	0,4 ÷ 30
S32C/CL	0,82	12	IN 40 / OUT 16	0,4 ÷ 30
S40C/CL	0,82	14	IN 40 / OUT 16	0,4 ÷ 30

FLANGED SAFETY VALVES / VALVOLE FLANGIATE

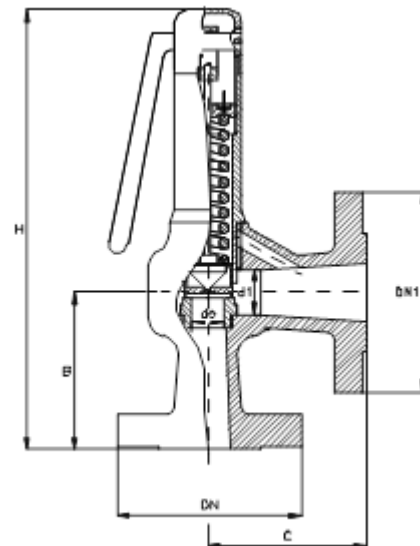
TYPE *
SLIP-ON FLANGED / FLANGE
MOBILI



TYPE “C”



TYPE “CL”



MATERIALS / MATERIALE

A216 WCB – A351 CF8M / CF3M
ACCIAIO AL CARBONIO / ACCIAIO INOX 316/L

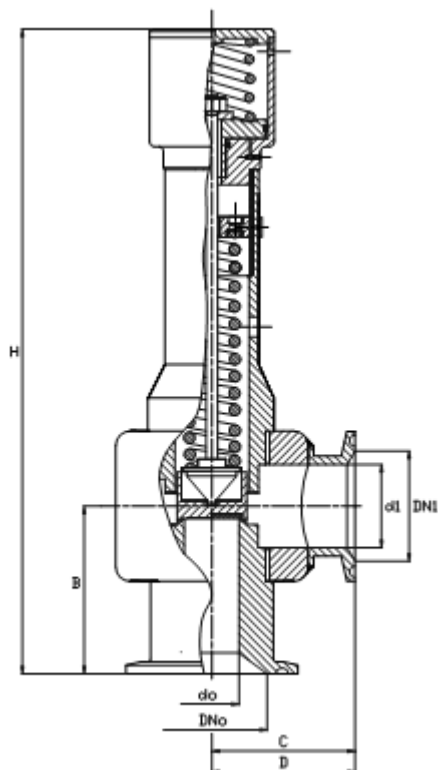
SEAT GASKET / TENUTA

**NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE / METAL TO METAL**

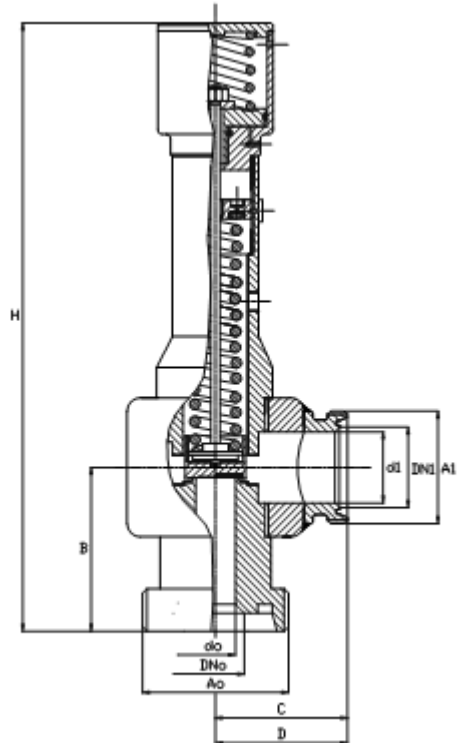
Type Tipo	Orifice/Orifizio Ø mm.		EN FLANGES		ANSI RF FLANGES		Dimensioni mm.			Weight Peso Kg.
	Inlet Entrata	Outlet Uscita	Inlet Entrata	Outlet Uscita	Inlet Entrata	Outlet Uscita	B	C	H	
S15C	14,2	20,0	DN 15 PN 40	DN 20 PN 16	1/2" - 3/4" 150/300	3/4" - 1" 150	80	80	180	2,80
S15CL									194	3,00
S20C	19,2	26,0	DN 20 PN 40	DN 25 PN 16	3/4" 150 1" 150 3/4" 300	1 ¼" 150	85	80	227	4,40
S20CL									246	4,60
S25C	24,2	32,0	DN 25 PN 40	DN 32 PN 16	1" 150 1 ¼" 150 1" 300	1 ½" 150	105	100	263	6,50
S25CL									286	6,70
S32C	31,2	38,0	DN 32 PN 40	DN 40 PN 16	1 ¼" 150 1 ½" 150	1 ½" 150 2" 150	115	110	307	9,00
S32CL									334	9,25
S40C	38,0	48,0	DN 40/50 PN 40	DN 50 /65 PN 16	1 ½" 150 2" 150	2" 150 2 ½" 150	140	117	363	11,00
S40CL									392	11,25
H15C	14,2	26,0	DN 15 PN 100	DN 25 PN 16	3/4" 600	1 ¼" 150	85	80	227	4,40
H15CL									246	4,60

SAFETY VALVES WITH PNEUMATIC ACTUATOR / VALVOLE CON COMANDO PNEUMATICO TYPE / TIPO S25 / S32 / S40

TYPE “CA”



TYPE “CA”



MATERIALS / MATERIALE

316 L STAINLESS STEEL / ACCIAIO INOX 316 L

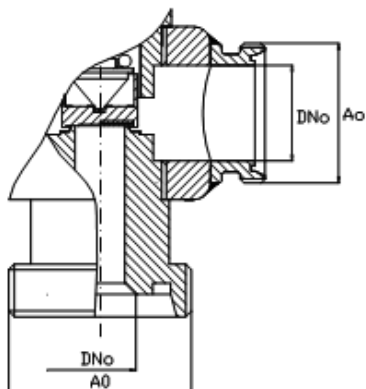
SEAT GASKET / TENUTA

NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE / METAL TO METAL

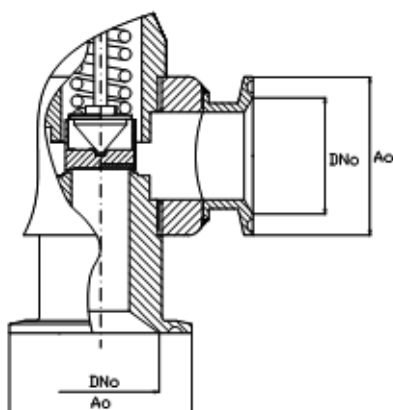
Type / Tipo	do Ø mm.	d1 Ø mm.	B mm.	C mm.	D Ø mm.	H mm.	WEIGHT Kg.	LIFT mm	SET PRESSURE ADJUSTMENT RANGE bar
S20CA	19.2	26	54	54	60	256	2,800	8	0.4 – 10
S25CA	24.2	32	62	66	72	279	4,200	10	0.4 – 10
S32CA	31.2	38	69	69	79	324	6,500	12	0.4 – 10
S40CA	38	48	77	77	89	362	8,800	14	0.4 – 10

SPECIAL CONNECTIONS / CONNESSIONI SPECIALI

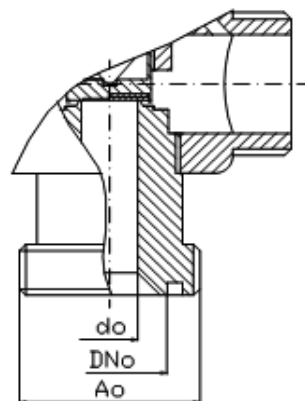
DIN TYPE



CLAMP TYPE



SMS TYPE



MATERIALS / MATERIALE

316 L STAINLESS STEEL / ACCIAIO INOX 316 L

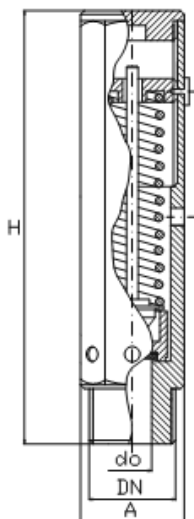
SEAT GASKET / TENUTA

**NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE / METAL TO METAL**

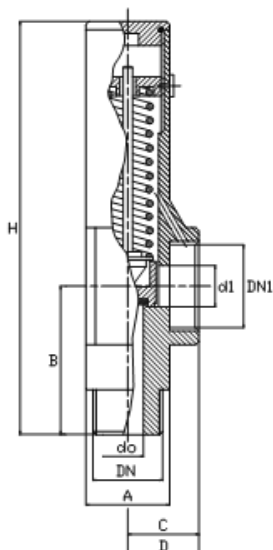
DIN TYPE		CLAMP TYPE		SMS TYPE	
DN 15 DIN	Rd 34X1/8"	1" T.C.	50,5	SMS S25	Rd 40X1/6"
DN 20 DIN	Rd 44X1/6"	1"1/2 T.C.	50,5	SMS S38	Rd 60X1/6"
DN 25 DIN	Rd 52X1/6"	2" T.C.	64	SMS S51	Rd 70X1/6"
DN 32 DIN	Rd 58X1/6"	2"1/2 T.C.	77,4		
DN 40 DIN	Rd 65X1/6"				
DN 50 DIN	Rd 78X1/6"				

SAFETY VALVES FOR HIGH PRESSURE / VALVOLE PER ALTA PRESSIONE

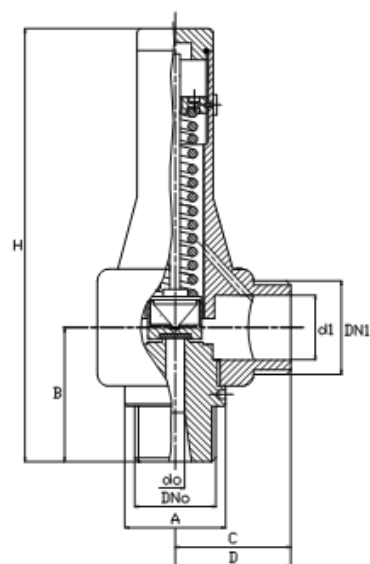
TYPE “H / HP N”



TYPE “H / HP C”



TYPE “HHP C”



EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N

MATERIALS / MATERIALE

EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5

316 L STAINLESS STEEL / ACCIAIO INOX 316 L

SEAT GASKET / TENUTA

NBR / NBR FDA / EPDM / NEOPRENE / VITON

SILICONE / PTFE / METAL TO METAL

Type / Tipo	d0 Ø mm.	DN "G.	d1 Ø mm	DN1 "G.	A mm.	B Ø mm.		C mm.		D Ø mm.		H mm.		WEIGHT Kg.	
						BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L	BRONZE	SS316L
H2N	2.5	1/4	-	-	22	-	-	-	-	-	-	84	102	0,220	0,240
H2C		3/8 1/2	10	1/2 F		35	35	19	16	23	23	100	102	0,330	0,330
H5N	5	1/4	-	-	22	-	-	-	-	-	-	84	102	0,220	0,240
H5C		3/8 1/2	10	1/2 F		35	35	19	16	23	23	100	102	0,330	0,330
HP5N	4/5	1/4	-	-	28	-	-	-	-	-	-	118	120	0,430	0,430
HP5C		3/8 1/2 3/4	14	1/2 F		35	35	25	25	30	30	128	130	0,580	0,580
HP10C	10	1/2 3/4	14	1/2 F	28	35	35	25	25	30	30	128	130	0,580	0,580
HHP7N	7	3/4 1	-	-	40	-	-	-	-	-	-	155	161	1,200	1,150
HHP7C	7	3/4 1	26	1"1/4 M 3/4 F		51	54	46	54	53	60	192	195	2,350	2,300
HHP10N	10	3/4 1	-	-	40	-	-	-	-	-	-	155	161	1,200	1,150
HHP10C	10	3/4 1	26	1"1/4 M 3/4 F		51	54	46	54	53	60	192	195	2,350	2,300

Type /Tipo	K	LIFT mm.	PN	Set pressure adjustment range / Campo di taratura bar
H2/H5N – H2/H5C	0,05/0,5	4,5	From 100 To 400	10 ÷ 400
HP4/5N – HP4/5C		6,5		10 ÷ 400
HP10C	0,76	6,5		0,5 ÷ 100
HHP7N – HHP7C	0,95 - 0,96	8		10 ÷ 400
HHP10N – HHP10C	0,95 - 0,96	8		10 ÷ 200

DOUBLE ACTION SAFETY VALVES / VALVOLE DI SICUREZZA A DOPPIO EFFETTO VALVES FOR THE VACUUM / VALVOLE PER IL VUOTO

R40 SAFETY VALVES WITH DOUBLE ACTION MADE OF BRASS, BRONZE AND S.S. 316, WITH FREE DISCHARGE IN THE AIR, FROM 1 1/2" UP TO 2" AND SET PRESSURE FROM 0,4 UP TO 6 BAR. THEY CAN BE USED IN ALL PRODUCTION FIELDS. THESE SAFETY VALVES CAN SATISFY, AT THE SAME TIME, TWO REQUIREMENTS FOR TANKS AND VESSELS, DURING LOADING AND UNLOADING OPERATIONS:

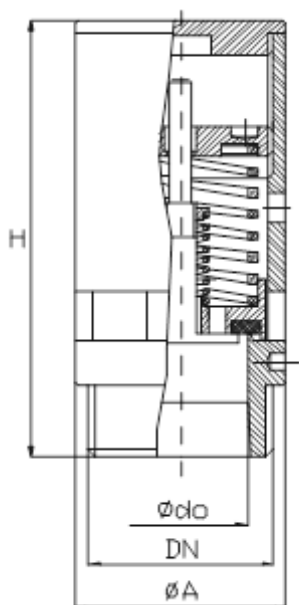
- TO AVOID DANGEROUS OVERPRESSURES
- TO AVOID IMPLOSIONS DUE TO INTERNAL DEPRESSIONS.

THESE VALVES ARE PARTICULARLY SUITABLE FOR TANKS ON TRUCKS USED FOR TRANSPORT OF CEMENT, POWDERS, FLOURS AND CEREALS. THE SET PRESSURE IS ON CUSTOMER REQUEST, BUT THE SET DEPRESSION IS FIXED AT 0,05 BAR TO 0,6 BAR.

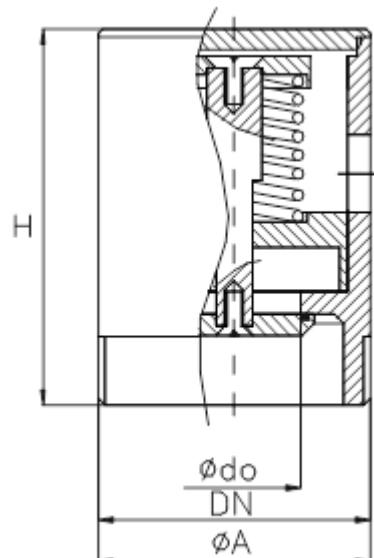
VALVE DIMENSIONS ARE LIMITED, SO THEY CAN BE USED IN ALL SITUATIONS AND IN ALL PLANTS.

V30 / V45 / V60 STAINLESS STEEL VACUUM VALVES FROM 2 "TO 3" ", SPECIAL CONNECTIONS (DIN, CLAMP ...).

R40 TYPE



V30 / V45 / V60 TYPE



MATERIALS / MATERIALE

EN 12164 CW 614N BRASS / OTTONE EN 12164 CW 614N
EN 1982 Cu Sn5 Zn5 Pb5 BRONZE / BRONZO EN 1982 Cu Sn5 Zn5 Pb5
316 L STAINLESS STEEL / ACCIAIO INOX 316 L

SEAT GASKET / TENUTA

NBR / NBR FDA / EPDM / NEOPRENE / VITON
SILICONE / PTFE / METAL TO METAL

Type /Tipo	d0 Ø mm.	DN	A mm.	H mm.	Weight Peso Kg.	K	Lift / Alzata mm.	PN	Set pressure adjustment range / Campo di taratura bar
R40N	38	1 1/2 2"	Ø60 Hex. ch60	125	1,190	0,71	16	6	0,4 ÷ 6,0
V30	29	2" CLAMP DN DIN	60	86	-	-	-	-	0,05 ÷ 0,6 DEPRESSION
V45	46	3"	90	119	-	-	-	-	0,05 ÷ 0,6 DEPRESSION
V60	60	4" DN80 DIN	115	115 140	-	-	-	-	0,05 ÷ 0,6 DEPRESSION



COMPANY WITH
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AIR DISCHARGE CAPACITY Kg/h 20°C / PORTATA ARIA A 20°C IN Kg/h

VALVE TYPE TIPO VALVOLA	SET PRESSURE BAR / PRESSIONE DI TARATURA IN BAR																							
	0.4	1	1.5	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	12	14	16	18	20	22	25	28	30
R20	284	414	522	630	739	847	955	1064	1172	1280	1497	-	-	-	-	-	-	-	-	-	-	-	-	-
R30	599	874	1103	1332	1560	1789	2018	2247	2476	2105	3163	-	-	-	-	-	-	-	-	-	-	-	-	-
R40	887	1293	1631	1970	2309	2647	2986	3324	3663	4002	4679	-	-	-	-	-	-	-	-	-	-	-	-	-
S10	73	106	134	161	189	217	245	272	300	328	383	439	494	550	605	716	827	938	1049	1160	1271	1438	1604	1715
S15	146	214	270	325	381	437	493	549	605	661	773	885	997	1109	1220	1444	1668	1892	2116	2339	2563	2899	3234	3458
S20	268	390	493	595	697	800	902	1004	1106	1209	1413	1618	1822	2027	2231	2640	3049	3459	3868	4277	4686	5299	5913	6322
S25	425	620	783	945	1108	1270	1433	1595	1758	1920	2245	2570	2895	3220	3545	4195	4845	5494	6144	6794	7444	8419	9394	10044
S32	707	1031	1301	1571	1841	2111	2381	2651	2921	3192	3732	4272	4812	5352	5892	6972	8053	9133	10213	11293	12373	13994	15614	16694
S40	1049	1530	1930	2331	2731	3132	3533	3933	4334	4734	5536	6337	7138	7939	8740	10343	11945	13547	15150	16752	18355	20758	23162	24764
S15C-CL	143	209	263	318	372	427	482	536	591	645	755	864	973	1082	1191	1410	1628	1847	2065	2284	2502	2830	3157	3376
S20C-CL	261	381	481	581	681	781	880	980	1080	1180	1380	1579	1779	1979	2178	2578	2977	3376	3776	4175	4574	5173	5772	6172
S25C-CL	415	606	764	923	1081	1240	1399	1557	1716	1874	2192	2509	2826	3143	3460	4095	4729	5364	5998	6632	7267	8218	9170	9804
S32C-CL	690	1007	1270	1534	1797	2061	2325	2588	2852	3116	3643	4170	4697	5225	5752	6806	7861	8915	9970	11024	12079	13660	15242	16297
S40C-CL	1024	1493	1884	2275	2666	3057	3448	3839	4231	4622	5404	6186	6968	7750	8532	10096	11661	13225	14789	16353	17918	20264	22610	24175

TO HAVE THE L/1' DISCHARGE CAPACITY, MULTIPLY FOR 13,837 / PER AVERE LA PORTATA IN L/1' MOLTIPLICARE PER 13,837

TO HAVE THE m³/h DISCHARGE CAPACITY, DIVIDE BY 1,2045 / PER AVERE LA PORTATA IN m³/h DIVIDERE PER 1,2045

TO HAVE THE Nm³/h DISCHARGE CAPACITY, DIVIDE BY 1,2479 / PER AVERE LA PORTATA IN Nm³/h DIVIDERE PER 1,2479



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AIR DISCHARGE CAPACITY Kg/h 20°C / PORTATA ARIA A 20°C IN Kg/h

VALVE TYPE TIPO VALVOLA	SET PRESSURE BAR / PRESSIONE DI TARATURA IN BAR																							
	0.4	1	2	4	6	8	10	12	14	18	20	22	25	28	30	35	40	45	50	60	70	80	90	100
H2N-C	-	-	-	-	-	-	2.25	2.66	3.08	3.90	4.32	4.73	5.35	5.97	6.38	7.41	8.44	9.48	10.51	12.57	14.64	16.70	18.77	20.83
H5N-C	1.08	1.58	2.40	4.05	5.70	7.36	9.01	10.66	12.31	15.61	17.26	18.92	21.39	2387	25.52	29.65	33.78	37.91	42.03	50.29	58.55	66.80	75.06	83.32
HP4N-C	-	-	-	-	-	-	5.76	6.82	7.88	9.99	11.05	12.11	13.69	15.28	16.33	18.98	21.62	24.26	26.90	32.19	37.47	42.75	48.04	53.32
HP5N-C	-	-	2.40	4.05	5.70	7.36	9.01	10.66	12.31	15.61	17.26	18.92	21.39	23.87	25.52	29.65	33.78	37.91	42.03	50.29	58.55	66.80	75.06	83.32
H10N	-	-	184	311	438	564	691	818	945	1199	1325	1452	1642	1833	1959	2277	2594	2911	3228	3962	4496	5130	5764	6398
H15N	-	--	371	627	883	1139	1394	1650	1906	2417	2673	2929	3312	3696	3952	4591	5230	5870	6509	7787	9066	10345	11623	12902
H10C	-	-	182	308	433	559	648	810	935	1186	1312	1437	1625	1814	1939	2253	2567	2880	3194	3822	4449	5077	5704	6332
HP10C	-	-	146	246	346	447	547	648	748	949	1049	1150	1300	1451	1551	1802	2053	2304	2555	3057	3559	4061	4563	5065
H15C	-	-	368	621	874	1127	1380	1633	1886	2392	2645	2898	3278	3657	3910	4543	5176	5808	6441	7706	8972	10237	11502	12767

VALVE TYPE TIPO VALVOLA	SET PRESSURE BAR / PRESSIONE DI TARATURA IN BAR											
	120	150	180	200	240	260	280	300	320	350	380	400
H2N-C	24.96	31.15	37.34	41.47	49.73	53.86	57.98	62.11	66.24	72.43	78.63	82.75
H5N-C	-	-	-	-	-	-	-	-	-	-		-
HP4N-C	63.89	79.74	95.60	106	127	137	148	159	169	185	201	211
HP5N-C	99.83	124	149	165	-	-	-	-	-	-	-	-

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TO HAVE THE m³/h DISCHARGE CAPACITY, DIVIDE BY 1,2045 / PER AVERE LA PORTATA IN m³/h DIVIDERE PER 1,2045

TO HAVE THE Nm³/h DISCHARGE CAPACITY, DIVIDE BY 1,2479 / PER AVERE LA PORTATA IN Nm³/h' DIVIDERE PER 1,2479



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STEAM DISCHARGE CAPACITY Kg/h / PORTATA VAPORE IN Kg/h

VALVE TYPE TIPO VALVOLA	SET PRESSURE BAR / PRESSIONE DI TARATURA IN BAR																						
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10	11	12	15	18	20	22	24	25
S15C-CL	99	133	167	200	233	267	300	333	366	399	465	530	595	660	725	790	854	1049	1193	1372	1501	1631	1676
S20C-CL	181	243	305	366	427	488	549	610	670	729	850	969	1088	1207	1326	1444	1563	1918	2181	2508	2744	2982	3065
S25C-CL	288	387	485	582	679	776	872	696	1064	1159	1351	1539	1729	1918	2106	2295	2483	3047	3465	3985	4360	4738	4869
S32C-CL	479	644	806	968	1128	1290	1449	1611	1770	1927	2245	2559	2874	3188	3502	3815	4127	5065	5759	6624	7247	7876	8094
S40C-CL	711	955	1196	1436	1674	1913	2150	2390	2625	2858	3331	3796	4264	4729	5195	5659	6122	7514	8543	9826	10751	11684	12007



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H2O DISCHARGE CAPACITY Kg/h 20°C / PORTATA H2O A 20°C IN Kg/h

VALVE TYPE TIPO VALVOLA	SET PRESSURE BAR / PRESSIONE DI TARATURA IN BAR																				
	0,5	1	1,5	2	2,5	3	3,5	4	5	6	7	8	9	10	12	15	18	22	25	28	30
S15C-CL	4056	6019	7372	8513	9518	10426	11261	12039	13460	14745	15926	17026	18059	19036	20853	23314	25539	28235	30098	31853	32971
S20C-CL	7781	11005	13478	15563	17401	19061	20589	22010	24608	26957	29117	31127	33016	34802	38123	42623	46691	51619	55026	58235	60279
S25C-CL	10092	14272	17480	20184	22566	24720	26701	28544	31914	34960	37761	40368	42817	45133	49441	55276	60552	66943	71362	75522	78173
S32C-CL	16774	23723	29055	33549	37509	41090	44382	47446	53047	58110	62766	67099	71170	75019	82180	91880	100649	111272	118616	125532	129938
S40C-CL	24883	35191	43100	49767	55642	60952	65836	70382	78689	86200	93107	99535	105573	111284	121905	136294	149303	165061	175956	186214	192750

VALVE TYPE TIPO VALVOLA	SET PRESSURE BAR / PRESSIONE DI TARATURA IN BAR																				
	0,5	1	2	4	6	10	15	20	25	30	35	40	45	50	55	60	65	70	80	90	100
H10C-CL	2313	3272	4627	6544	8015	10347	12672	14633	16360	17922	19358	20694	21950	23137	24266	25345	26380	27376	29266	31042	32721
H15C-CL	4665	6597	9330	13195	16161	20864	25553	29506	32989	36138	39033	41728	44260	46654	48931	51107	53193	55201	59013	62593	65978

CALCULATING FORMULAE

GAS	VAPORE - STEAM	LIQUIDO - LIQUID	ACQUA SURRISCALDATA SUPERHEATED WATER
$Q_m = p_0 C A K_{dr} \sqrt{\frac{M}{Z T_0}} \text{ Kg/h}$	$Q_m = 0.2883 C A K_{dr} \sqrt{\frac{P_0}{V}} \text{ Kg/h}$	$Q_m = 1.61 K_{dr} K_v A \sqrt{\frac{P_0 - P_b}{V}} \text{ Kg/h}$	$Q_m = 0.2883 C A K_{dr} \sqrt{\frac{P_0}{V}} r \text{ Kcal/h}$

LEGEND:

Symbol	Description	Symbol	Description
A	Flow area or a safety valves (not curtain area)	M	Molar mass
C	Function of the isentropic exponent	Po	Relieving pressure
Kd	Coefficient of discharge ^{a)}	Pb	Back pressure
Kdr	Certified derated coefficient of discharge (Kd x 0.9) ^{a)}	V	Specific volume at actual relieving pressure and temperature
KV	Viscosity correction factor	r	Vaporisation heat (referred to absolute pressure)
K	Isentropic exponent	Z	Compressibility factor at actual relieving pressure and temperature