

FREE EXHAUST SAFETY VALVES TYPE B/F

FEATURES

Type F safety valves are devices designed to protect installations against possible overpressures. They operate automatically and close when the pressure conditions have returned to normal. Of the spring-loaded valve type, with free exhaust, the type F valve is made of brass or stainless steel (except F18) pressure class PN 40.

It is supplied sealed as standard with an NBR seal and a test wheel. Type F valves have CE approval and can be used on compressed air and other compatible non-hazardous gases. Calibration certificate and manufacturer's file, according to the decree of November 20, 2017 relating to the monitoring of pressure equipment, on request.

MODELS AVAILABLE

F18: 1" M (Brass) and **B20:** 1" M (St. steel).

F25: 1"1/4 M (Brass/Stainless Steel).

F32: 1"1/2 M (Brass/Stainless steel).

F40: 2" M (Brass/Stainless Steel).



LIMITS OF USE

Type	F 18	B 20	F 25	F 32	F 40
PS Fluid:	21 bar	60 bar	30 bar	14 bar	30 bar
Maximum material temperatures: to be interpreted taking into account the operating pressure at the operating temperature.					
Material	Brass	Stainless steel	Brass / Stainless steel	Brass / Stainless steel	Brass / Stainless steel
TS Fluid:	FPM range: -20°C / +200°C				
TS Fluid:	NBR range: -10°C / +100°C				
TS Fluid:	EPDM range: -50°C / +150°C				
TS Fluid:	Silicone range: -50°C / +200°C (Brass) / -60°C / +200°C (Stainless steel)				
TS Fluid:	PTFE range: -50°C / +180°C (Brass) / -100°C / +180°C (Stainless steel)				
TS Fluid:	Metal range: -195°C / +450°C (Stainless steel only)				

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		Rev.	02
		Date	02/2025

FREE EXHAUST SAFETY VALVES TYPE B/F

HYDRAULIC CHARACTERISTICS

Type	F 18	B 20	F 25	F 32	F 40
DN input	G 1" M	G 1" M	G 1 1/4 M	G 1 1/2 M	G 2" M
Orifice do (mm)	18	20	25	32	40
Surface area (cm ²)	2.54	3.14	4,906	8, 038	12,566
Lift (mm)	7	7	9	9	12
Flow coefficient	0.74 > 3 bar 0.84	0.71 > 3 bar 0.84	0.86	0.78	0.59 > 3 bar 0.69
Flow coefficient ATEX Ex 2 G c	0.74 > 3 bar 0.84	0.71 > 3 bar 0.84	0.86	0.78	0.59 > 3 bar 0.69
ASME VIII Div.1 Flow Coefficient	0.712	0.712	0.712	0.712	0.712
CRN flow coefficient	0.712	0.712	0.712	0.712	0.712
Minimum calibration (bar)	0.5	0.5	0.5	0.5	0.5
Max setting (bar)	21	60	30	14	30
Maximum flow rate at Osp +10%					
Closing pressure at Osp -10%					
<u>Osp</u> : Opening start pressure					

DIRECTIVES AND MANUFACTURING STANDARD

OBJECT	Standard	NB
EC Pressure Directive 2014/68	Category IV (module B+D)	CE 0036
ATEX Directive	Ex II 2 G c	CE 0036
Construction standard EN	ISO 4126-1	
US Construction Standard	ASME VIII Division 1 (40 bar)	
Approval for Canada	CRN (40 bar)	
Approval for Russia	GOST-R	
Threaded connection	ISO 228	
CALIBRATION CERTIFICATE – TEST AND MATERIAL		
Certificate according to EN 10 204 2.2 of calibration and conformity as standard with engraving of the serial number on the valve.		

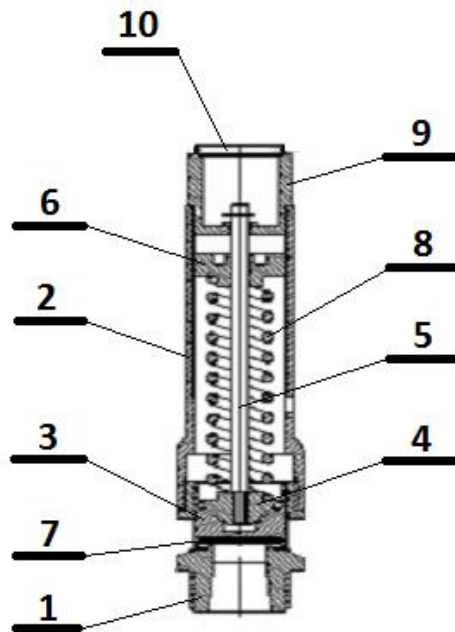
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CONSTRUCTION

Rep	Designation	Brass Version	Stainless steel version
1	Body	Brass CW 614 N	Forged stainless steel 1.4401
2	Hat	Brass CW 614 N	Forged stainless steel 1.4401
3	Flap	Brass CW 614 N	Forged stainless steel 1.4401
4	Punch	Brass CW 614 N	Forged stainless steel 1.4401
5	Stem	Brass CW 614 N	Forged stainless steel 1.4401
6	Adjustment screw	Brass CW 614 N	Forged stainless steel 1.4401
7	Seat	FPM	NBR/FPM/PTFE
8	Spring	C 72 UNI 3823	AISI 302
9	Test wheel	Brass CW 614 N	Forged stainless steel 1.4401
10	Plate	Brass CW 614 N	Forged stainless steel 1.4401



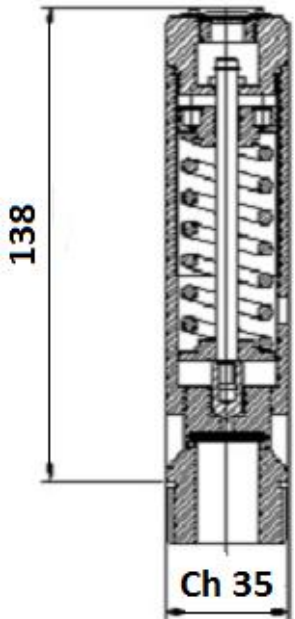
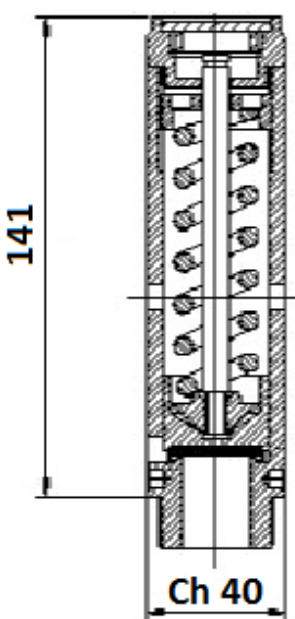
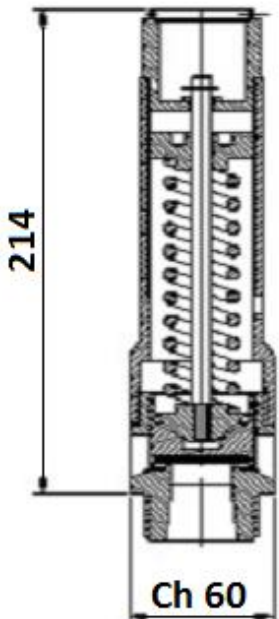
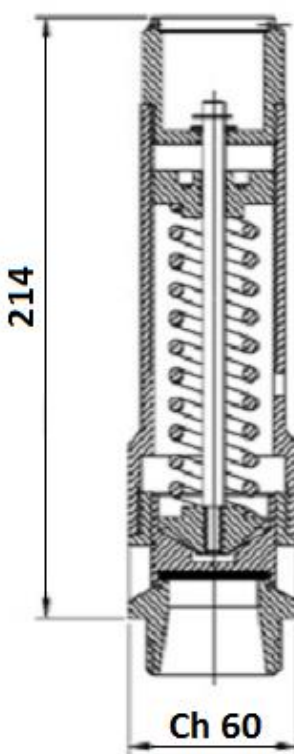
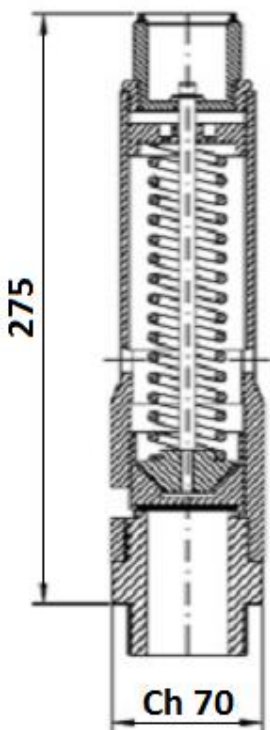
Designation	Brass Version (Kg)	Stainless steel version (Kg)
F18	0.75	
B20	0.97	
F25	2.03	
F32	2.50	
F40	3.97	

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DIMENSIONS (mm)

F 18	B 20	F 25
 138 Ch 35	 141 Ch 40	 214 Ch 60
F 32	F 40	
 214 Ch 60	 275 Ch 70	

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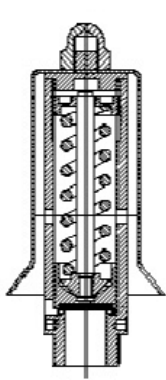
FREE EXHAUST SAFETY VALVES TYPE B/F

INSTALLATION

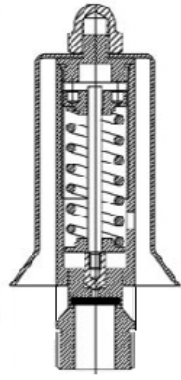
The valve must be positioned as close as possible to the capacity to be protected. It must always be installed in a vertical position. No tap must be inserted between the capacity to be protected and the valve. No foreign body must block the valve discharge port. Since the exhaust is free, install the valve away from the operators' work areas and check that there is no danger when the valve is operating. The valve must be installed and maintained in accordance with the rules of the art and in accordance with the instructions supplied with the device.

OPTIONS

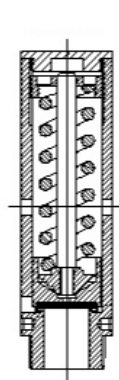
- Valve without test wheel type F/S.
- Valve with deflector type F/P.
- Valve construction nickel-plated brass.
- Brass construction valve with stainless steel body and flap.
- Connections: BSPT, NPT, clamp.



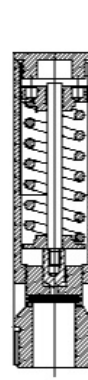
B20/P



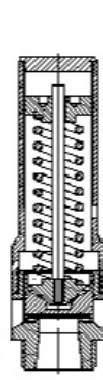
F18-25-32-40/P



B20/S



F18/S



F25-32-40/S

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AIR FLOW in Nm³/h at 0°C

According to ISO 4126-1 standard

Type	F18	B20	F25	Type	F18	B20	F25	Type	F18	B20	F25
P (bar)	Nm ³ /h			P (bar)	Nm ³ /h			P (bar)	Nm ³ /h		
0.5	198	235	445	20.5	3418	4025	6760	40.5	-	7785	-
1	276	327	603	21	3498	4119	6918	41	-	7879	-
1.5	357	422	761	21.5	-	4213	7076	41.5	-	7973	-
2	442	522	919	22	-	4307	7234	42	-	8067	-
2.5	531	626	1076	22.5	-	4401	7391	42.5	-	8161	-
3	624	735	1234	23	-	4495	7549	43	-	8255	-
3.5	704	829	1392	23.5	-	4589	7707	43.5	-	8349	-
4	784	923	1550	24	-	4683	7865	44	-	8443	-
4.5	864	1017	1708	24.5	-	4777	8023	44.5	-	8537	-
5	944	1111	1866	25	-	4871	8181	45	-	8631	-
5.5	1023	1205	2024	25.5	-	4965	8339	45.5	-	8725	-
6	1103	1299	2182	26	-	5059	8497	46	-	8818	-
6.5	1183	1393	2339	26.5	-	5153	8654	46.5	-	8912	-
7	1263	1487	2797	27	-	5247	8812	47	-	9006	-
7.5	1343	1581	2655	27.5	-	5341	8970	47.5	-	9100	-
8	1423	1675	2813	28	-	5435	9128	48	-	9194	-
8.5	1502	1769	2971	28.5	-	5529	9286	48.5	-	9288	-
9	1582	1863	3129	29	-	5623	9444	49	-	9382	-
9.5	1662	1957	3287	29.5	-	5717	9602	49.5	-	9476	-
10	1742	2051	3445	30	-	5811	9760	50	-	9570	-
10.5	1822	2145	3602	30.5	-	5905	-	50.5	-	9664	-
11	1902	2239	3760	31	-	5999	-	51	-	9758	-
11.5	1981	2333	3918	31.5	-	6093	-	51.5	-	9852	-
12	2061	2427	4076	32	-	6187	-	52	-	9946	-
12.5	2141	2521	4234	32.5	-	6281	-	52.5	-	10040	-
13	2221	2615	4392	33	-	6375	-	53	-	10134	-
13.5	2301	2709	4550	33.5	-	6469	-	53.5	-	10228	-
14	2381	2803	4708	34	-	6563	-	54	-	10322	-
14.5	2460	2897	4865	34.5	-	6657	-	54.5	-	10416	-
15	2540	2991	5023	35	-	6751	-	55	-	10510	-
15.5	2620	3085	5181	35.5	-	6845	-	55.5	-	10604	-
16	2700	3179	5339	36	-	6939	-	56	-	10698	-
16.5	2780	3273	5497	36.5	-	7033	-	56.5	-	10792	-
17	2860	3367	5655	37	-	7127	-	57	-	10886	-
17.5	2939	3461	5813	37.5	-	7221	-	57.5	-	10980	-
18	3019	3555	5971	38	-	7315	-	58	-	11074	-
18.5	3099	3649	6128	38.5	-	7409	-	58.5	-	11168	-
19	3179	3743	6286	39	-	7503	-	59	-	11262	-
19.5	3259	3837	6444	39.5	-	7597	-	59.5	-	11356	-
20	3339	3931	6602	40	-	7691	-	60	-	11450	-

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Type	F32	F40	Type	F32	F40
P (bar)	Nm³/h		P (bar)	Nm³/h	
0.5	661	782	20.5	-	13892
1	896	1095	21	-	14216
1.5	1130	1427	21.5	-	14541
2	1365	1778	22	-	14865
2.5	1600	2148	22.5	-	15190
3	1834	2537	23	-	15514
3.5	2069	2861	23.5	-	15839
4	2303	3185	24	-	16163
4.5	2538	3510	24.5	-	16487
5	2773	3834	25	-	16812
5.5	3007	4159	25.5	-	17136
6	3242	4483	26	-	17461
6.5	3476	4808	26.5	-	17785
7	3711	5132	27	-	18110
7.5	3946	5456	27.5	-	18434
8	4180	5781	28	-	18759
8.5	4415	6105	28.5	-	19083
9	4649	6430	29	-	19407
9.5	4884	6754	29.5	-	19732
10	5119	7079	30	-	20056
10.5	5353	7403	30.5	-	-
11	5588	7728	31	-	-
11.5	5822	8052	31.5	-	-
12	6057	8376	32	-	-
12.5	6292	8701	32.5	-	-
13	6526	9025	33	-	-
13.5	6761	9350	33.5	-	-
14	6995	9674	34	-	-
14.5	-	9999	34.5	-	-
15	-	10323	35	-	-
15.5	-	10648	35.5	-	-
16	-	10972	36	-	-
16.5	-	11296	36.5	-	-
17	-	11621	37	-	-
17.5	-	11945	37.5	-	-
18	-	12270	38	-	-
18.5	-	12594	38.5	-	-
19	-	12919	39	-	-
19.5	-	13243	39.5	-	-
20	-	13567	40	-	-

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FREE EXHAUST SAFETY VALVES TYPE B/F

AIR FLOW in l/min at 0°C

According to ISO 4126-1 standard

Type	F18	B20	F25	Type	F18	B20	F25	Type	F18	B20	F25
P (bar)	l/min			P (bar)	l/min			P (bar)	l/min		
0.5	3303	3918	7415	20.5	56974	67079	112666	40.5	-	129742	-
1	4597	5443	10047	21	58305	68645	115297	41	-	131309	-
1.5	5953	7039	12678	21.5	-	70212	117928	41.5	-	132876	-
2	7373	8705	15309	22	-	71778	120559	42	-	134442	-
2.5	8856	10441	17940	22.5	-	73345	123191	42.5	-	136009	-
3	10403	12248	20572	23	-	74912	125822	43	-	137575	-
3.5	11734	13815	23203	23.5	-	76478	128453	43.5	-	139142	-
4	13064	15381	25834	24	-	78045	131084	44	-	140709	-
4.5	14395	16948	28465	24.5	-	79611	133716	44.5	-	142275	-
5	15725	18514	31097	25	-	81178	136347	45	-	143842	-
5.5	17056	20081	33728	25.5	-	82745	138978	45.5	-	145408	-
6	18387	21647	36359	26	-	84311	141609	46	-	146975	-
6.5	19717	23214	38990	26.5	-	85878	144241	46.5	-	148542	-
7	21048	24781	41622	27	-	87444	146872	47	-	150108	-
7.5	22378	26347	44253	27.5	-	89011	149503	47.5	-	151675	-
8	23709	27914	46884	28	-	90578	152134	48	-	153241	-
8.5	25040	29480	49515	28.5	-	92144	154766	48.5	-	154808	-
9	26370	31047	52147	29	-	93711	157397	49	-	156375	-
9.5	27701	32614	54778	29.5	-	95277	160028	49.5	-	157941	-
10	29031	34180	57409	30	-	96844	162659	50	-	159508	-
10.5	30362	35747	60040	30.5	-	98411	-	50.5	-	161074	-
11	31693	37313	62672	31	-	99977	-	51	-	162641	-
11.5	33023	38880	65303	31.5	-	101544	-	51.5	-	164208	-
12	34354	40447	67934	32	-	103110	-	52	-	165774	-
12.5	35684	42013	70565	32.5	-	104677	-	52.5	-	167341	-
13	37015	43580	73197	33	-	106244	-	53	-	168907	-
13.5	37346	45146	75828	33.5	-	107810	-	53.5	-	170474	-
14	39676	46713	78459	34	-	109377	-	54	-	172040	-
14.5	41007	48280	81090	34.5	-	110943	-	54.5	-	173607	-
15	42337	49846	83722	35	-	112510	-	55	-	175174	-
15.5	43668	51413	86353	35.5	-	114077	-	55.5	-	176740	-
16	44999	52979	88984	36	-	115643	-	56	-	178307	-
16.5	46329	54546	91615	36.5	-	117210	-	56.5	-	179873	-
17	47660	56113	94247	37	-	118776	-	57	-	181440	-
17.5	48991	57679	96878	37.5	-	120343	-	57.5	-	183007	-
18	50321	59246	99509	38	-	121909	-	58	-	184573	-
18.5	51652	60812	102140	38.5	-	123476	-	58.5	-	186140	-
19	52982	62379	104772	39	-	125043	-	59	-	187706	-
19.5	54313	63946	107403	39.5	-	126609	-	59.5	-	189273	-
20	55644	65512	110034	40	-	128176	-	60	-	190840	-

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Type	F32	F40	Type	F32	F40
P (bar)	l/min		P (bar)	l/min	
0.5	11019	13030	20.5	-	231532
1	14929	18252	21	-	236939
1.5	18839	23788	21.5	-	242347
2	22749	29637	22	-	247754
2.5	26659	35800	22.5	-	253161
3	30569	42275	23	-	258569
3.5	34479	47683	23.5	-	263976
4	38389	53090	24	-	269383
4.5	42299	58497	24.5	-	274791
5	46209	63905	25	-	280198
5.5	50119	69312	25.5	-	285605
6	54029	74719	26	-	291013
6.5	57939	80127	26.5	-	296420
7	61849	85534	27	-	301827
7.5	65759	90941	27.5	-	307235
8	69670	96349	28	-	312642
8.5	73580	101756	28.5	-	318049
9	77490	107163	29	-	323457
9.5	81400	112571	29.5	-	328864
10	85310	117978	30	-	334271
10.5	89220	123385	30.5	-	-
11	93130	128793	31	-	-
11.5	97040	134200	31.5	-	-
12	100950	139607	32	-	-
12.5	104860	145015	32.5	-	-
13	108770	150422	33	-	-
13.5	112680	155829	33.5	-	-
14	116590	161237	34	-	-
14.5	-	166644	34.5	-	-
15	-	172051	35	-	-
15.5	-	177459	35.5	-	-
16	-	182866	36	-	-
16.5	-	188273	36.5	-	-
17	-	193681	37	-	-
17.5	-	199088	37.5	-	-
18	-	204495	38	-	-
18.5	-	209903	38.5	-	-
19	-	215310	39	-	-
19.5	-	220717	39.5	-	-
20	-	226125	40	-	-

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FREE EXHAUST SAFETY VALVES TYPE B/F

FLOW in Kg/h at 20°C

According to ISO 4126-1 standard

Type	F18	B20	F25	Type	F18	B20	F25	Type	F18	B20	F25
P (bar)	Kg/h			P (bar)	Kg/h			P (bar)	Kg/h		
0.5	256	304	575	20.5	4419	5203	8739	40.5	-	10064	-
1	357	422	779	21	4523	5325	8943	41	-	10185	-
1.5	462	546	983	21.5	-	5446	9147	41.5	-	10307	-
2	572	675	1187	22	-	5568	9352	42	-	10428	-
2.5	687	810	1392	22.5	-	5689	9556	42.5	-	10550	-
3	807	950	1596	23	-	5811	9760	43	-	10671	-
3.5	910	1072	1800	23.5	-	5932	9964	43.5	-	10793	-
4	1013	1193	2004	24	-	6054	10168	44	-	10914	-
4.5	1117	1315	2208	24.5	-	6175	10372	44.5	-	11036	-
5	1220	1436	2412	25	-	6297	10576	45	-	11158	-
5.5	1323	1558	2616	25.5	-	6418	10780	45.5	-	11279	-
6	1426	1679	2820	26	-	6540	10984	46	-	11401	-
6.5	1529	1801	3024	26.5	-	6661	11188	46.5	-	11522	-
7	1633	1922	3229	27	-	6783	11393	47	-	11644	-
7.5	1736	2044	3433	27.5	-	6904	11597	47.5	-	11765	-
8	1839	2165	3637	28	-	7026	11801	48	-	11887	-
8.5	1942	2287	3841	28.5	-	7147	12005	48.5	-	12008	-
9	2045	2408	4045	29	-	7269	12209	49	-	12130	-
9.5	2149	2530	4249	29.5	-	7390	12413	49.5	-	12251	-
10	2252	2651	4453	30	-	7512	12617	50	-	12373	-
10.5	2355	2773	4657	30.5	-	7634	-	50.5	-	12494	-
11	2458	2894	4861	31	-	7755	-	51	-	12616	-
11.5	2562	3016	5065	31.5	-	7877	-	51.5	-	12737	-
12	2665	3137	5270	32	-	7998	-	52	-	12859	-
12.5	2768	3259	5474	32.5	-	8120	-	52.5	-	12980	-
13	2871	3380	5678	33	-	8241	-	53	-	13102	-
13.5	2974	3502	5882	33.5	-	8363	-	53.5	-	13223	-
14	3078	3623	6086	34	-	8484	-	54	-	13345	-
14.5	3181	3745	6290	34.5	-	8606	-	54.5	-	13466	-
15	3284	3866	6494	35	-	8727	-	55	-	13588	-
15.5	3387	3988	6698	35.5	-	8849	-	55.5	-	13709	-
16	3490	4110	6902	36	-	8970	-	56	-	13831	-
16.5	3594	4231	7106	36.5	-	9092	-	56.5	-	13952	-
17	3697	4353	7311	37	-	9213	-	57	-	14074	-
17.5	3800	4474	7515	37.5	-	9335	-	57.5	-	14195	-
18	3903	4596	7719	38	-	9456	-	58	-	14317	-
18.5	4007	4717	7923	38.5	-	9578	-	58.5	-	14438	-
19	4110	4839	8127	39	-	9699	-	59	-	15560	-
19.5	4213	4960	8331	39.5	-	9821	-	59.5	-	14682	-
20	4316	5082	8535	40	-	9942	-	60	-	14803	-

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FREE EXHAUST SAFETY VALVES TYPE B/F

Type	F32	F40	Type	F32	F40
P (bar)	Kg/h		P (bar)	Kg/h	
0.5	855	1011	20.5	-	17959
1	1158	1416	21	-	18379
1.5	1461	1845	21.5	-	18798
2	1765	2299	22	-	19218
2.5	2068	2777	22.5	-	19637
3	2371	3279	23	-	20057
3.5	2674	3699	23.5	-	20476
4	2978	4118	24	-	20896
4.5	3281	4538	24.5	-	21315
5	3584	4957	25	-	21734
5.5	3888	5376	25.5	-	22154
6	4191	5796	26	-	22573
6.5	4494	6215	26.5	-	22993
7	4798	6635	27	-	23412
7.5	5101	7054	27.5	-	23832
8	5404	7474	28	-	24251
8.5	5707	7893	28.5	-	24670
9	6011	8312	29	-	25090
9.5	6314	8732	29.5	-	25509
10	6617	9151	30	-	25929
10.5	6921	9571	30.5	-	-
11	7224	9990	31	-	-
11.5	7527	10410	31.5	-	-
12	7830	10829	32	-	-
12.5	8134	11249	32.5	-	-
13	8437	11668	33	-	-
13.5	8740	12087	33.5	-	-
14	9044	12507	34	-	-
14.5	-	12926	34.5	-	-
15	-	13346	35	-	-
15.5	-	13765	35.5	-	-
16	-	14185	36	-	-
16.5	-	14604	36.5	-	-
17	-	15023	37	-	-
17.5	-	15443	37.5	-	-
18	-	15862	38	-	-
18.5	-	16282	38.5	-	-
19	-	16701	39	-	-
19.5	-	17121	39.5	-	-
20	-	17540	40	-	-

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FREE EXHAUST SAFETY VALVES TYPE B/F

ASSEMBLY AND MAINTENANCE REGULATIONS

1 - DESCRIPTION

1.1 NGI spring-loaded valves are suitable for steam, gases and liquids. They are the result of decades of experience in numerous applications and largely fulfil their function of ultimate protection of pressure vessels. They are capable of ensuring that the internal pressure does not exceed the maximum permitted, even if other safety devices installed upstream prove to be faulty, provided that they have been correctly dimensioned.

1.2 NGI safety valves are manufactured from brass or stainless steel. All valves are factory calibrated and sealed to ensure maximum safety and minimum maintenance.

2 - WARRANTY

2.1 Before any relationship with our services, identify the type of valve as well as the individual number engraved on the body of the valve.

2.2 NGI safety valves are guaranteed for 24 months from the date of delivery. Parts found to be defective by an expert assessment at our factory will be replaced at our expense. Claims resulting from improper use, modification of the valve, or leakage due to the passage of impurities will not be taken into account.

3 - TRANSPORT, VERIFICATION UPON RECEIPT AND STORAGE

3.1 CAUTION: The safety valve can be damaged by vibration, shock and contact with impurities. Therefore, the valve must be handled with care without removing the protective caps before installation, nor operating the test lever.

3.2 Upon receipt, check:

- that the packaging is in good condition,
- that the valve delivered complies with the order,
- that the equipment has not been damaged,
- that the valve is delivered with the calibration certificate, the number of which must correspond to the one engraved on the valve body.

3.3 It is recommended that the valve be installed upon receipt and not left unused. If the equipment is to be stored, it should be in a dry place protected from the elements.

4 - PRECAUTIONS FOR USE

4.1 Before any installation, ensure that the installation is completely depressurized and brought to room temperature.

4.2 Any adjustment or modification may only be carried out by technicians qualified in safety valves.

4.3 BEWARE OF TOXIC GASES

If the valve is installed on an acid tank, wear gloves and goggles and any other necessary personal protection.

4.4 The valve may only be put into service if it has been calibrated, sealed and certified by NGI. The calibration certificate shall state the exact pressure of its calibration.

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4.5 When a free exhaust valve in service is to be tested, ensure beforehand that no one remains in the direction of the exhaust. Do not allow toxic, explosive or flammable products to be discharged into the atmosphere. Provide a controlled degassing procedure in a confined space before the test.

4.6 Do not work on the valve, break its seal or modify its setting pressure.

4.7 Do not create cold or hot thermal shock on the valve.

4.8 In the event of a malfunction, immediately consult SECTORIEL or NGI.

4.9 CAUTION: IN CORROSIVE ENVIRONMENTS ONLY STAINLESS STEEL VALVES SHOULD BE INSTALLED.

4.10 The type of connection must be in accordance with the piping class of the installation.

4.11 We recommend that you preferably select a valve with a channeled exhaust. If the valve discharges directly to the atmosphere, direct the exhaust in such a way as not to cause any material or personal damage. On request, it is possible to supply a valve with a leak detector for control.

5 - INSTALLATION

5.1 Check that the seal has not been damaged.

5.2 Spring-loaded safety valves must be mounted in a vertical position with the bonnet upwards.

5.3 Taking care not to damage the bearing surfaces, remove the protective caps and install the valve on the installation according to its connection type.

5.4 It is prohibited to insert an isolation valve between the capacity to be protected and the safety valve.

5.5 It is prohibited to insert a reduction limiting the flow to be evacuated between the capacity to be protected and the valve.

5.6 For piped exhaust valves, ensure that the discharge piping discharges to a location that is safe for personnel and the environment.

5.7 If the valve exhaust is to be connected to a pipe, ensure that the pipe is as short as possible to create minimum back pressure.

5.8 Exhaust piping connected to a channeled exhaust valve must not be supported by the valve itself. Otherwise, leaks may occur.

6 - CLEANING AND LUBRICATION

6.1 NGI valves are designed to require no lubrication.

6.2 Keep the valve clean and in working order. In particular, check that the exhaust remains free and that no foreign bodies are obstructing the discharge pipe.

7 - CURRENT MAINTENANCE

7.1 The safety valve is a sensitive safety element that must be checked periodically. If a malfunction is found, contact SECTORIEL or NGI.

7.2 ATTENTION: NGI and SECTORIEL are no longer responsible for the proper functioning of the valve if it has been dismantled or modified or recalibrated by a person not authorized by NGI or SECTORIEL.

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FREE EXHAUST SAFETY VALVES TYPE B/F

8 - PERIODIC INSPECTION

8.1 In order to ensure that the safety valve is still operational, it must be tested periodically. To carry out this test, the test lever or wheel must be operated manually briefly. In order to protect the installation during this test, the test pressure must remain between 80 and 90% of the set pressure. The valve must be wide open to allow a significant flow.

When re-closing, ensure that the seat is watertight again. When starting an installation, it is recommended to carry out this test regularly.

8.2 For uses on gases or steam on installations located on French territory, comply with the provisions of the decree of November 20, 2017 relating to the monitoring of pressure equipment.

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