

Siemens 2BH1500-7AA21

Gas Ring Vacuum Pump/Compressor



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Vacuum Pumps and Compressors

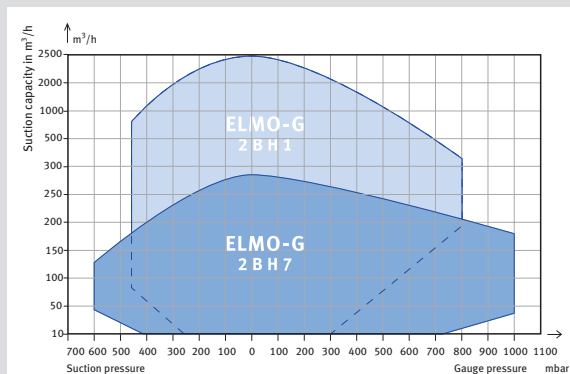
Catalogue 2001



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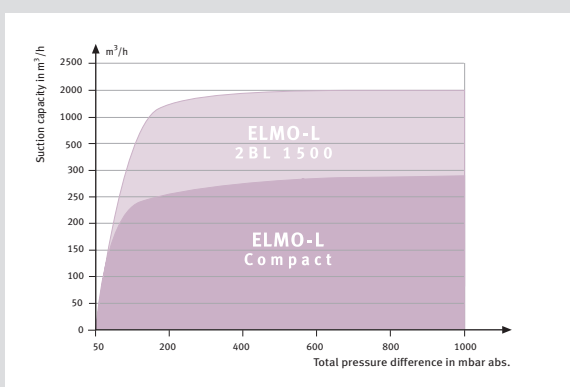


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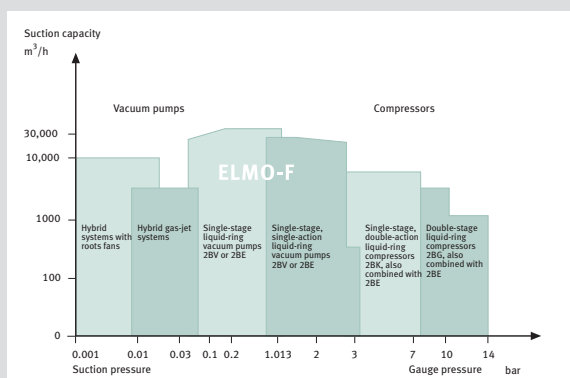
ELMO-G vacuum pumps and compressors convey non-explosive gases and gas-air mixtures absolutely oil-free and low-noise – at 50 Hz and 60 Hz. They are space-saving, maintenance-free – and highly economical:

- air-cooled
- ready to connect
- with Siemens 3-phase motors and IP 54 degree of protection
- with EEx e II T3 explosion protection
- motors in accordance with DIN VDE 0530
- max. gas and ambient temperature 40 °C
- standard paint finish in RAL 7030 colour
- can be installed in any axial orientation



Because of their unique operating principle, ELMO-L vacuum pumps are ideally suited for damp areas. They evacuate air, moist gases or vapours absolutely oil-free – at 50 or 60 Hz.

- insensitive to condensate
- particularly quiet
- ready to mount and connect
- with internal cooling and waste gas temperature based on ambient temperature
- max. ambient temperature 45 °C
- no risk of thermal overloading
- with Siemens three- or single-phase motors with IP 54/55 degree of protection



Because of their extremely tough design, ELMO-F liquid-ring vacuum pumps and compressors are particularly suitable for conveying moist, explosive and aggressive gases.

And yet – like the complete ELMO range – they are extremely economical:

- maintenance-free in continuous duty
- low-noise
- space-saving
- extremely tough



Side-channel blowers ELMO-G

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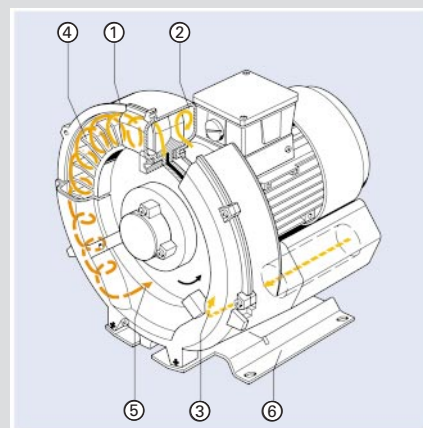
ELMO-G Side-Channel Blowers

A versatile solution for flexible use

Whether vacuum pump or compressor, whether handling air, non-explosive gases or gas-air mixtures – ELMO-G side-channel blowers are oil-free, maintenance-free and ever reliable in operation.

The reason: the impellers are mounted directly on the motor shaft and compress entirely without friction. Maximum operational reliability, including at high differential pressures, is ensured by the arrangement of the bearings outside the compression chamber.

All of this makes ELMO-G uniquely robust – and maintenance-free even in continuous duty.



Flexible and powerful

The ELMO-G range 2BH1 and 2BH7 vacuum pumps and compressors are available in a huge product range with over 80 sizes. They therefore cover the most varied requirements – flexibly and powerfully, even in applications which are otherwise the preserve of more sensitive dry-running rotary-vane compressors or noisy rotary-piston blowers. ELMO-G vacuum pumps and compressors are also available with integrated busable frequency converters for speed variation between 2200 and 5000 rpm. This allows any operating point to be precisely selected and controlled – without complex commissioning or additional wiring.

Short delivery time, easy installation

ELMO-G vacuum pumps and compressors are available immediately in all common voltages. Especially for resellers there are 50/60-Hz-wide-range voltages: consequently, 95% of all world voltages are covered. ELMO-G vacuum pumps and compressors come ready for connection. For the customer this means: just mount in any position, connect the suction/discharge lines to the system, wire up the electrical connections – and the ELMO-G is ready for operation. Motor (degree of protection IP 55) as well as suction- and discharge-side silencers are integrated in the compact design.

ELMO-G 2BH7, single-stage – for high pressure ranges.



ELMO-G side-channel blower 2BH1 – single-stage version.



ELMO-G side-channel blower 2BH1 – two-stage, for tougher requirements.



ELMO-GS 2BH1 – with integrated frequency converter for high volume flows and/or automatic modification to changing loads.





2BH – operating principle

- ① Casing
- ② Side channel
- ③ Inlet slot
- ④ Impeller
- ⑤ Discharge slot
- ⑥ Foot plate

ELMO-G vacuum pumps and compressors work according to the side-channel principle. The gas flows through the compressor along a helical trajectory and is repeatedly accelerated and thereby repeatedly compressed according to the required operating point. Consequently, much higher pressures are obtained than it is possible with radial blowers of identical impeller diameter and speed.

Applications

- Pneumatic conveying systems
- Lifting and holding of parts by vacuum
- Packaging machines
- Aeration of sewage-treatment plants
- Filling of bags/bottles/hoppers
- Soil remediation
- Thermoforming
- Sorting/enveloping of letters
- Food-processing
- Laser printers
- Dental suction equipment
- Paper processing
- Printers/copiers
- Textile machines
- Aeration of fish ponds
- Gas analysis
- Swimming-pool equipment/whirlpools

ELMO-G 2BH7, two-stage – the reliable system for high differential pressures

2BH100 – “Little Star” drive via an electronically commutated, permanent-field d.c. motor. Infinitely variable over the entire power range.



Also available with 3 or 4 impellers (on request).



ELMO-G side-channel blower 2BH7 with integrated frequency converter.



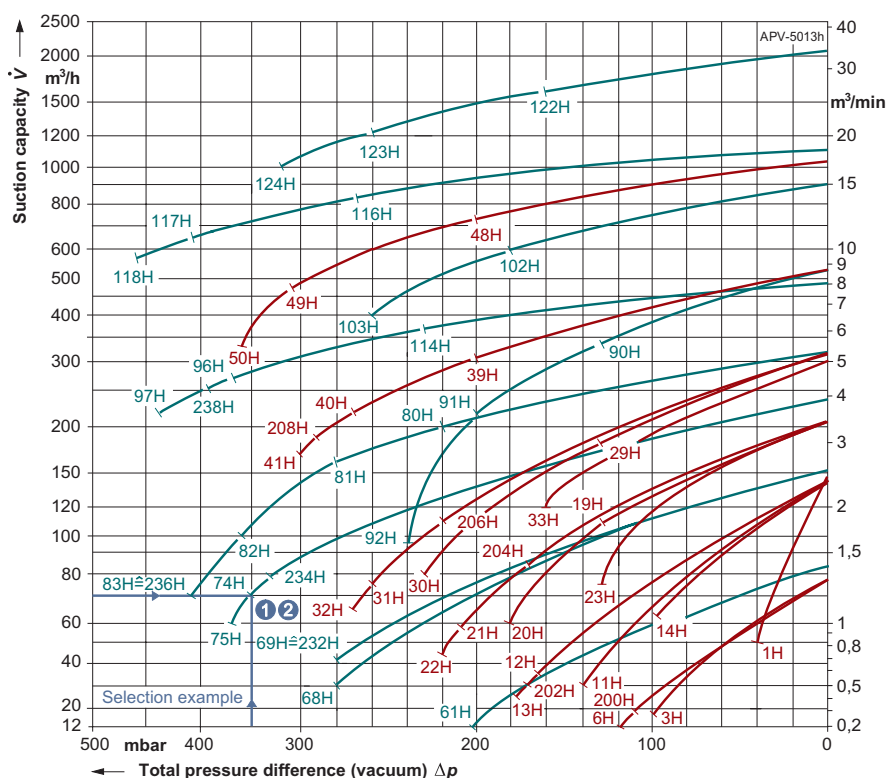
ELMO-G with ECOFAST motor starter – for continuous starting via energy bus and AS interface.



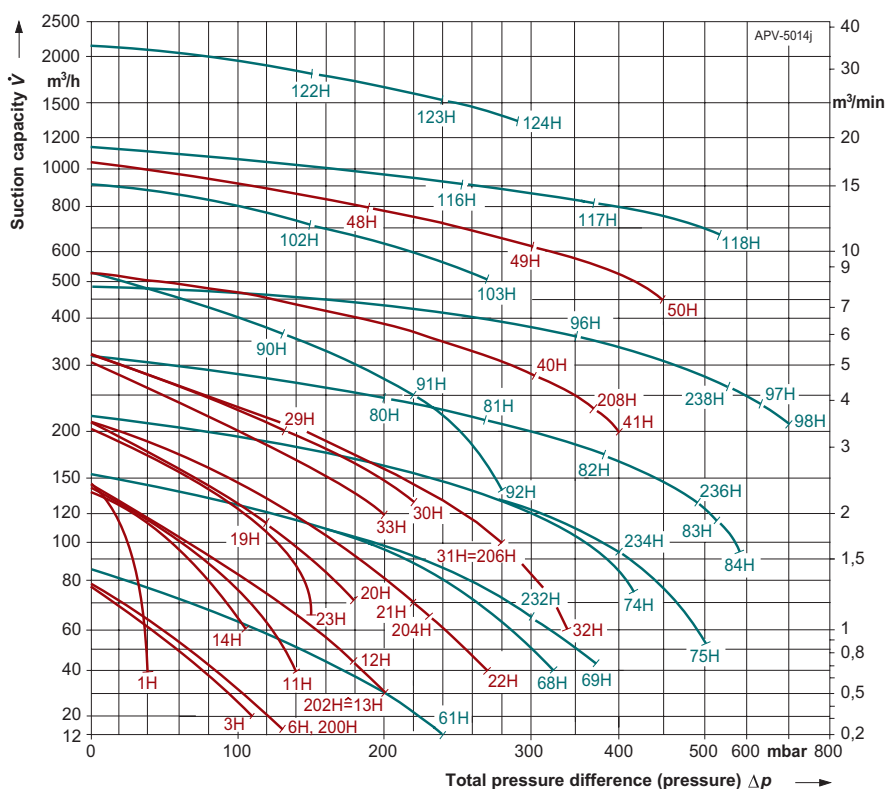
ELMO-G Vacuum Pumps/Compressors, Range 2BH1, Three-Phase 50 Hz



Selection diagram vacuum operation



Selection diagram compressor operation



The performance curves are valid for pumping air at 15 °C at the inlet flanges with an air pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25 °C.

ELMO-G Vacuum Pumps/Compressors, Range 2BH1, Three-Phase 50 Hz

Selection and ordering information for 50 Hz									
Curve No.	Motor ⁹⁾			Sound-pressure level ¹⁾	Order No.	Weight approx.	Vacuum-relief valve ²⁾ Items x Type	Pressure-relief valve ²⁾ Items x Type	
	output kW	Rated current A	Degree of protection						
					•AVAILABLE EX STOCK	kg	2BX2...	2BX2...	
1H	0.25	1.38 Δ / 0.8 Y	IP 55	57	•2BH1 200-7A H 0 6	8	—	—	
3H	0.25	1.38 Δ / 0.8 Y	IP 55	58	•2BH1 300-7A H 0 6	8	1 x 110/141	1 x 111/143	
6H	0.4	2.6 Δ / 1.5 Y	IP 55	58	•2BH1 300-7A H 1 6	10	1 x 110	1 x 111/143	
11H	0.7	4.25 Δ / 2.45 Y	IP 55	63	•2BH1 400-7A H 0 6	13	1 x 110/141	1 x 111/143	
12H	0.85	4.4 Δ / 2.55 Y	IP 55	63	•2BH1 400-7A H 1 6	15	1 x 110/141	1 x 111/143	
13H	1.3	6.6 Δ / 3.8 Y	IP 55	63	•2BH1 400-7A H 2 6	16	1 x 110/141	1 x 111/143	
14H	0.6	2.8 Δ / 1.6 Y	IP 55	63	•2BH1 490-7A H 1 6	14	—	—	
19H	0.85	4.4 Δ / 2.55 Y	IP 55	66	•2BH1 500-7A H 0 6	18	1 x 110/145	1 x 111/147	
20H	1.3	6.6 Δ / 3.8 Y	IP 55	66	•2BH1 500-7A H 1 6	20	1 x 110/145	1 x 111/147	
21H	1.6	7.5 Δ / 4.3 Y	IP 55	66	•2BH1 500-7A H 2 6	21	1 x 110/145	1 x 111/147	
22H	2.2	9.7 Δ / 5.6 Y	IP 55	66	•2BH1 500-7A H 3 6	25	1 x 110/145	1 x 111/147	
23H	1.1	6.4 Δ / 3.7 Y	IP 55	66	•2BH1 590-7A E 1 1 ⁷⁾	20	—	—	
23H	1.1	7.5 Δ / 4.3 Y	IP 55	66	•2BH1 590-7A H 2 6	21	—	—	
29H	1.5	6.3 Δ / 3.65 Y	IP 55	70	•2BH1 600-7A C 0 1 ⁷⁾	26	1 x 110/145	2 x 111/147	
30H	2.2	10.0 Δ / 5.8 Y	IP 55	70	•2BH1 600-7A H 1 6	29	1 x 110/145	1 x 111/147	
31H	3	12.5 Δ / 7.2 Y	IP 55	70	2BH1 600-7A H 2 6	34	1 x 110/145	1 x 111/147	
32H	4	9.3 Δ / 5.4 Y	IP 55	70	•2BH1 600-7A C 3 6	42	1 x 110/145	1 x 111/147	
33H	2.2	10.5 Δ / 6.1 Y	IP 55	70	•2BH1 690-7A E 1 1 ⁷⁾	29	—	—	
33H	2.2	12.5 Δ / 7.2 Y	IP 55	70	•2BH1 690-7A H 2 6	31	—	—	
39H	4	8.6 Δ / 5.0 Y	IP 54	71	2BH1 800-1A C 0 6 ^{V)}	112	2 x 110	—	
40H	5.5	11.8 Δ / 6.8 Y	IP 54	71	•2BH1 800-1A C 1 6	126	1 x 110	1 x 111 ⁸⁾	
41H	7.5	15.1 Δ / 8.7 Y	IP 54	71	2BH1 800-1A C 2 6	128	1 x 110	1 x 111 ⁸⁾	
48H	9	17 Δ / 9.9 Y	IP 54	75	•2BH1 900-1A C 0 6	172	1 x 150	1 x 151 ⁸⁾	
49H	13	25 Δ / 14.4 Y	IP 54	75	•2BH1 900-1A C 1 6	191	2 x 110	3 x 111 ⁸⁾	
50H	19	35.5 Δ / 20.5 Y	IP 54	75	•2BH1 900-1A C 2 6	204	2 x 110	2 x 111 ⁸⁾	
61H	0.76	3.55 Δ / 2.05 Y	IP 55	60	2BH1 310-7H C 2 1	14	1 x 110/141	1 x 111/143	
68H	1.75	6.3 Δ / 3.65 Y	IP 55	66	2BH1 410-7H C 3 1	24	1 x 110/141	1 x 111/143	
69H	2.2	9.7 Δ / 5.6 Y	IP 55	66	•2BH1 410-7H H 4 6	27	1 x 110/141	1 x 111/143	
74H	3	12.5 Δ / 7.2 Y	IP 55	74	•2BH1 510-7H H 4 6	39	1 x 110/145	1 x 111/147	
75H	4	17.4 Δ / 10.0 Y	IP 55	74	2BH1 510-7H H 5 6	43	1 x 110/145	1 x 111/147	
80H	2.2	9.7 Δ / 5.6 Y	IP 55	75	•2BH1 610-7H H 1 6	42	1 x 110/145	1 x 111/147	
81H	3	12.5 Δ / 7.2 Y	IP 55	75	•2BH1 610-7H H 2 1	47	1 x 110/145	1 x 111/147	
82H	4	9.3 Δ / 5.4 Y	IP 55	75	•2BH1 610-7H C 3 6	53	1 x 110/145	1 x 111/147	
83H	5.5	13.5 Δ / 7.8 Y	IP 54	75	•2BH1 610-1H C 4 6	70	1 x 110/145	1 x 111/147	
84H	7.5	14.7 Δ / 8.5 Y	IP 54	75	•2BH1 610-1H C 5 6 ^{K)}	77	—	1 x 111/147	
90H	4	9.3 Δ / 5.4 Y	IP 55	76	2BH1 640-7G C 3 6 ⁷⁾	53	1 x 110/145	3 x 111/147	
91H	5.5	11.6 Δ / 6.7 Y	IP 54	76	•2BH1 640-1G C 4 6	73	1 x 110/145	2 x 111/147	
92H	7.5	14.7 Δ / 8.5 Y	IP 54	76	2BH1 640-1G C 5 6	86	1 x 110/145	1 x 111/147	
96H	7.5	15.1 Δ / 8.7 Y	IP 54	75	•2BH1 810-1H C 2 6	169	1 x 110	2 x 111 ⁸⁾	
97H	11	25 Δ / 14.4 Y	IP 54	75	•2BH1 810-1H C 3 6	205	1 x 110	1 x 111 ⁸⁾	
98H	15	30 Δ / 17.4 Y	IP 54	75	2BH1 810-1H C 4 6 ^{K)}	221	—	1 x 111 ⁸⁾	
102H	7.5	15.1 Δ / 8.7 Y	IP 54	75	•2BH1 840-1J C 2 6	160	3 x 110	1 x 151 ⁸⁾	
103H	11	25 Δ / 14.4 Y	IP 54	75	•2BH1 840-1J C 3 6	200	2 x 110	2 x 111 ⁸⁾	
114H	5.5	11.8 Δ / 6.8 Y	IP 54	75	2BH1 810-1H E 1 6 ^{7)V)}	163	2 x 110	—	
116H	13.7	26 Δ / 15 Y	IP 54	75	2BH1 910-1H C 1 6	265	1 x 150	1 x 151 ⁸⁾	
117H	17.8	34 Δ / 19.5 Y	IP 54	75	•2BH1 910-1H C 2 6	278	3 x 110	1 x 151 ⁸⁾	
118H	22.6	42 Δ / 24 Y	IP 54	75	•2BH1 910-1H C 3 6	295	3 x 110	3 x 111 ⁸⁾	
122H	15	30 Δ / 17.5 Y	IP 54	76	2BH1 943-1G C 2 6 ³⁾	270	1 x 152	1 x 153 ⁸⁾	
123H	21	39.5 Δ / 23 Y	IP 54	76	•2BH1 943-1G C 3 6 ³⁾	300	1 x 152	1 x 153 ⁸⁾	
124H	25	46.5 Δ / 27 Y	IP 54	76	2BH1 943-1G C 4 6 ³⁾	330	3 x 110	1 x 153 ⁸⁾	

Selection and ordering information for 50 Hz, EEx e II T3 ⁵⁾									
200H	0.33	1.98 Δ / 1.14 Y	IP 54	58	2BH1 300-7AD 2 4 ⁷⁾	10	1 x 110/141	1 x 111/143	
202H	1	3.95 Δ / 2.3 Y	IP 54	63	2BH1 400-7AD 2 4 ⁷⁾	16	1 x 110/141	1 x 111/143	
204H	1.39	5.9 Δ / 3.4 Y	IP 54	70	2BH1 500-7AD 3 4 ⁷⁾	24	1 x 110/145	1 x 111/147	
	1.65	6.6 Δ / 3.8 Y							
206H	2.65	9.1 Δ / 5.2 Y	IP 54	72	2BH1 600-7AD 3 4 ⁷⁾	49	1 x 110/145	1 x 111/147	
	3.25	11.1 Δ / 6.4 Y							
208H	4.5	8.7 Δ / 5.1 Y	IP 54	71	2BH1 800-7AD 2 8 ⁷⁾	132	1 x 110	1 x 111 ⁸⁾	
	6.5	12.5 Δ / 7.3 Y							
232H	1.6	5.7 Δ / 3.3 Y	IP 54	66	2BH1 410-7HD 4 4 ⁷⁾	27	1 x 110/141	1 x 111/143	
234H	2.45	8.4 Δ / 4.85 Y	IP 54	74	2BH1 510-7HD 5 4 ⁷⁾	55	1 x 110/145	1 x 111/147	
	3.1	10.3 Δ / 5.9 Y							
236H	4.65	8.9 Δ / 5.2 Y	IP 54	75	2BH1 610-1HD 5 8 ⁷⁾	86	1 x 110/145	1 x 111/147	
	5.6	10.7 Δ / 6.2 Y							
238H	7.1	13 Δ / 7.5 Y	IP 54	75	2BH1 810-1HD 4 8 ⁷⁾	221	1 x 110	1 x 111 ⁸⁾	
	10	18.4 Δ / 10.7 Y							

Performances and currents for compressor operation

Voltages at 50 Hz			
2BH1 □ . □			
230 V Δ / 400 V Y ⁴⁾	↑	↑	
400 V Δ / 690 V Y ⁴⁾	C	16 ⁶⁾	
185 - 225 V Δ / 320 - 390 V Y	H	1	
200 - 240 V Δ / 345 - 415 V Y	H	6	
200 - 260 V Δ / 345 - 450 V Y	E	1	
400 V Δ / 690 V Y	E	6	
required voltage: ■	E	9	
EEx e:			
230 V Δ / 400 V Y	D	4	
400 V Δ / 690 V Y	D	8	
required voltage: ■	D	9	

■ Please give required voltage in plain text plus M1 Y.
e.g. 2BH1 800-1AE09
M1 Y
500 V Δ, 50 Hz

Selection example

Application:

e.g. pneumatic conveying

1) Required duty point:

V = 70 m³/h

Δp = 350 mbar

2) Choose the performance curve which lies closest to the duty point ①.

In this example, No. 74H

3) Selection and order code:

No. 74H ⇒ Type 2BH1 510-7HH46

- Measuring-surface sound-pressure level acc. to EN 21680-1, measured at a distance of 1 m. The pump is throttled to a medium inlet pressure, a hose is connected to the discharge side, and a vacuum-relief valve is not fitted.
- For selecting valves see accessories on pages 16 to 19. The pressure limits of the valves are based on a cooling-agent and ambient temperature of 25 °C, except for the curves 48H to 50H, 116H to 118H, 122H to 124H, (40 °C).
- For 2BH1 943, only mounting on the end-casing is possible.
- Permissible voltage range.

Rated voltage acc. to DIN IEC 38*	Permissible voltage range acc. to DIN VDE 0530 or DIN IEC 34-1**
230 V Δ / 400 V Y 400 V Δ / 690 V Y	220...240 V Δ / 380...420 V Y 380...420 V Δ / 660...725 V Y

* Voltage tolerance here ±10%.

** This voltage range is also indicated on the rating plate, together with the currents occurring in this range. For this range, the permissible voltage tolerance acc. to DIN VDE 0530 and IEC 34-1 is ±5%.

5) With Δ connection, an overload protection with phase failure protection is obligatory.

6) Delivery times on request.

7) Not possible in voltage versions H.1 and C.1 and H.6 and C.6.

8) Pressure-relief valve can only be supplied loose for these types, see accessories.

9) Motors designed for heat class F.

V) Only for vacuum operation.

K) Compressor operation.

This table offers a selection of standard types.

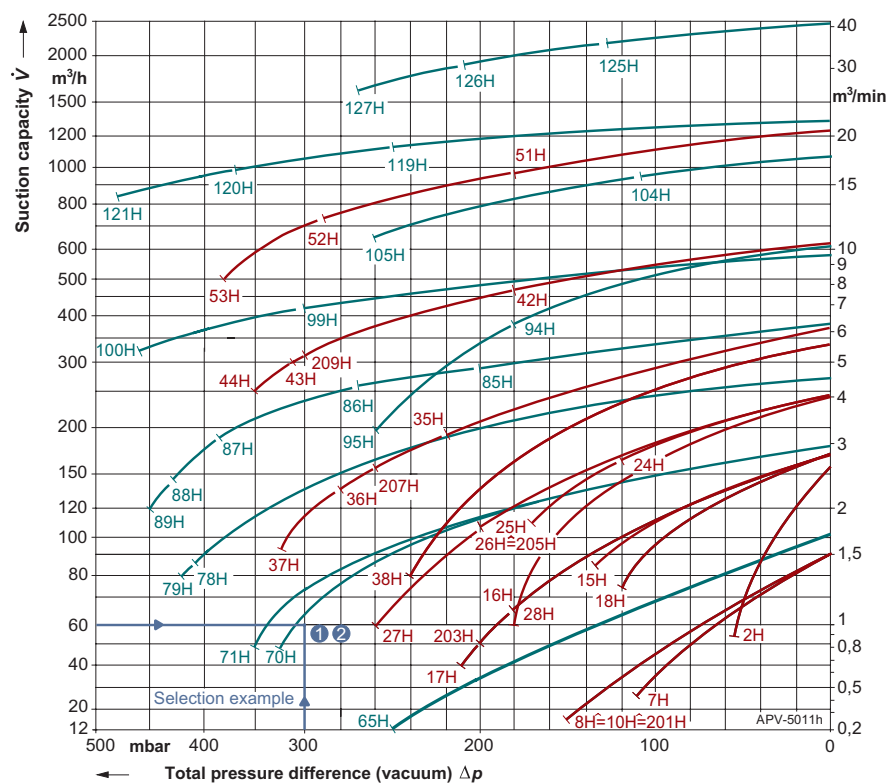
Further versions and electrical connection variants on request.

Accessories see pages 16 to 19.

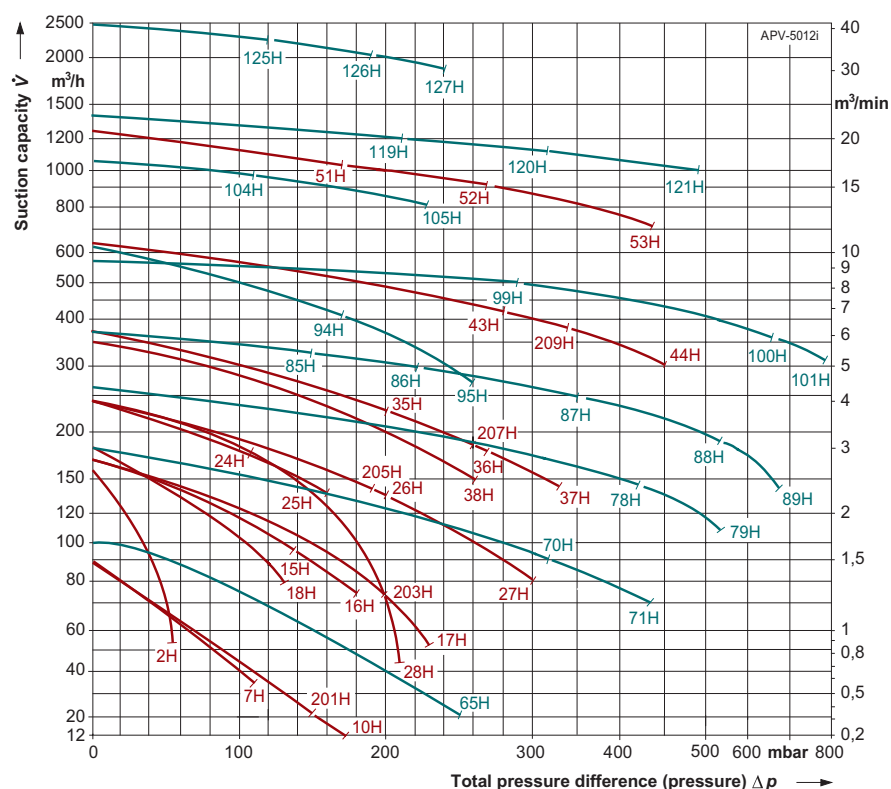
ELMO-G Vacuum Pumps/Compressors, Range 2BH1, Three-Phase 60 Hz



Selection diagram, vacuum operation



Selection diagram, compressor operation



The performance curves apply for pumping air at 15 °C at the inlet flanges with an air pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences apply up to an intake and ambient temperature of 25 °C.

ELMO-G Vacuum Pumps/Compressors, Range 2BH1, Three-Phase 60 Hz

Selection and ordering information for 60 Hz									
Curve No.	Motor ⁹⁾			Sound-pressure level ¹⁾ dB(A)	Order No.	Weight approx. kg	Vacuum-relief valve ²⁾ Items x Type	Pressure-relief valve ²⁾ Items x Type	
	output kW	Rated current A	Degree of protection						
					•AVAILABLE EX STOCK		2BX2...	2BX2...	
2H	0.25	1.74 Δ / 1.0 Y	IP 55	61	•2BH1 200-7A H 0 6	8	—	—	
7H	0.29	2.0 Δ / 1.15 Y	IP 55	61	•2BH1 300-7A H 0 6	8	1 x 114/142	1 x 115/144	
10H	0.5	2.6 Δ / 1.5 Y	IP 55	61	•2BH1 300-7A H 1 6	10	1 x 114	1 x 115	
15H	0.83	3.75 Δ / 2.15 Y	IP 55	64	•2BH1 400-7A H 0 6	13	1 x 114/142	1 x 115/144	
16H	1.05	4.35 Δ / 2.5 Y	IP 55	64	•2BH1 400-7A H 1 6	15	1 x 114/142	1 x 115/144	
17H	1.5	6.9 Δ / 4.0 Y	IP 55	64	•2BH1 400-7A H 2 6	16	1 x 114/142	1 x 115/144	
18H	0.85	3.6 Δ / 2.1 Y	IP 55	64	•2BH1 490-7A H 1 6	14	—	—	
24H	0.93	4.0 Δ / 2.3 Y	IP 55	73	•2BH1 500-7A H 0 6	18	1 x 114/146	2 x 115/148	
25H	1.5	6.9 Δ / 4.0 Y	IP 55	73	•2BH1 500-7A H 1 6	20	1 x 114/146	1 x 115/148	
26H	2.05	7.6 Δ / 4.4 Y	IP 55	73	•2BH1 500-7A H 2 6	21	1 x 114/146	1 x 115/148	
27H	2.55	10.3 Δ / 6.0 Y	IP 55	73	•2BH1 500-7A H 3 6	25	1 x 114/146	1 x 115/148	
28H	1.7	7.6 Δ / 4.4 Y	IP 55	73	•2BH1 590-7A H 2 6	21	—	—	
35H	2.55	11.2 Δ / 6.5 Y	IP 55	73	•2BH1 600-7A H 1 6	29	1 x 114/146	2 x 115	
36H	3.45	14.2 Δ / 8.2 Y	IP 55	73	2BH1 600-7A H 2 6	34	1 x 114/146	1 x 115	
37H	4.6	9.6 Δ	IP 55	73	•2BH1 600-7A C 2 6	42	1 x 114/146	1 x 115	
38H	3.5	14.2 Δ / 8.2 Y	IP 55	73	•2BH1 690-7A H 2 6	31	—	—	
42H	4.6	8.3 Δ	IP 54	75	2BH1 800-1A C 0 6 ^{V)}	112	2 x 114	—	
43H	6.3	12.6 Δ	IP 54	75	•2BH1 800-1A C 1 6	126	1 x 114	2 x 115 ⁸⁾	
44H	8.6	15.3 Δ	IP 54	75	2BH1 800-1A C 2 6	128	1 x 114	2 x 115 ⁸⁾	
51H	11	17.5 Δ	IP 54	80	•2BH1 900-1A C 0 6	172	1 x 152	1 x 153 ⁸⁾	
52H	15.3	25 Δ	IP 54	80	•2BH1 900-1A C 1 6	191	3 x 114	1 x 151 ⁸⁾	
53H	22.7	39 Δ	IP 54	80	•2BH1 900-1A C 2 6	204	2 x 114	3 x 115 ⁸⁾	
65H	0.89	2.1 Y	IP 55	66	2BH1 310-7H C 2 1	14	1 x 114/142	1 x 115/144	
70H	2.15	3.7 Y	IP 55	69	2BH1 410-7H C 3 1	24	1 x 114/142	1 x 115/144	
71H	2.55	10.3 Δ / 6.0 Y	IP 55	69	•2BH1 410-7H H 4 6	27	1 x 114/142	1 x 115/144	
78H	3.45	14.2 Δ / 8.2 Y	IP 55	76	•2BH1 510-7H H 4 6	39	1 x 114/146	1 x 115/148	
79H	4.6	8.7 Δ	IP 55	76	2BH1 510-7H H 5 6	43	1 x 114/146	1 x 115/148	
85H	2.55	10.3 Δ / 6.0 Y	IP 55	77	•2BH1 610-7H H 1 6	42	2 x 114/146	2 x 115/148	
86H	3.45	14.2 Δ / 8.2 Y	IP 55	77	•2BH1 610-7H H 2 1	47	2 x 114/146	2 x 115/148	
87H	4.6	9.6 Δ	IP 55	77	•2BH1 610-7H C 3 6	53	1 x 114/146	2 x 115/148	
88H	6.3	14.5 Δ	IP 54	77	•2BH1 610-1H C 4 6	70	1 x 114/146	1 x 115/148	
89H	8.6	13.5 Δ	IP 54	77	•2BH1 610-1H C 5 6	77	1 x 114/146	1 x 115	
94H	6.3	11.4 Δ	IP 54	80	•2BH1 640-1G C 4 6	73	2 x 114/146	3 x 115/148	
95H	8.6	14.5 Δ	IP 54	80	2BH1 640-1G C 5 6	86	1 x 114/146	2 x 115/148	
99H	8.6	15.3 Δ	IP 54	79	•2BH1 810-1H C 2 6	169	2 x 114	3 x 115 ⁸⁾	
100H	12.6	23 Δ	IP 54	79	•2BH1 810-1H C 3 6	205	1 x 114	2 x 115 ⁸⁾	
101H	17.3	29.5 Δ	IP 54	79	2BH1 810-1H C 4 6 ^{K)}	221	—	2 x 115 ⁸⁾	
104H	8.6	15.3 Δ	IP 54	79	•2BH1 840-1 J C 2 6	160	1 x 152	1 x 153 ⁸⁾	
105H	12.6	23 Δ	IP 54	80	•2BH1 840-1 J C 3 6	200	3 x 114	1 x 151 ⁸⁾	
119H	15.5	25.5 Δ	IP 54	80	2BH1 910-1H C 1 6	265	1 x 152	1 x 153 ⁸⁾	
120H	20	34.5 Δ	IP 54	80	•2BH1 910-1H C 2 6	278	1 x 150	1 x 153 ⁸⁾	
121H	26.8	43.5 Δ	IP 54	85	•2BH1 910-1H C 3 6	295	3 x 114	1 x 151 ⁸⁾	
125H	17.5	29.5 Δ	IP 54	85	2BH1 943-1G C 2 6 ³⁾	270	1 x 154	1 x 155 ⁸⁾	
126H	24.2	39 Δ	IP 54	85	•2BH1 943-1G C 3 6 ³⁾	300	1 x 152	1 x 155 ⁸⁾	
127H	29	46 Δ	IP 54	85	2BH1 943-1G C 4 6 ³⁾	330	1 x 152	1 x 153 ⁸⁾	

Selection and ordering information for 60 Hz, EEx e II T3									
201H	0.53	1.25 Y	IP 54	61	2BH1 300-1A G 2 4 ⁷⁾	10	1 x 114/142	1 x 115/144	
203H	1.25	2.4 Y	IP 54	64	2BH1 400-1A G 2 4 ⁷⁾	16	1 x 114/142	1 x 115/144	
205H	1.95	3.7 Y	IP 54	73	2BH1 500-1A G 3 4 ⁷⁾	24	1 x 114/146	1 x 115/148	
207H	3.8	6.5 Y	IP 54	76	2BH1 600-1A G 3 4 ⁷⁾	49	1 x 114/146	1 x 115	
209H	6.5	10.9 Δ	IP 54	75	2BH1 800-1A G 2 8 ⁷⁾	132	1 x 114	1 x 115	
	7.8	13 Δ							

Performances and currents for compressor operation

Voltages at 60 Hz			
2BH1 ...	□	□	
460 V Y ⁴⁾	↑	↑	
460 V Δ ⁴⁾	C	C	16 ⁵⁾
200 - 240 V Δ / 345 - 415 V Y	H	1	
220 - 275 V Δ / 380 - 480 V Y	H	6	
required voltage: ■	F	9	
EEx e:			
460 V Y	G	4	
460 V Δ	G	8	
required voltage: ■	G	9	

■ Please give required voltage in plain text and also give M1 Y.
e.g. 2BH1 800-1AF09
M1 Y
500 V, 60 Hz

Selection example

Application:

e.g. suction lifter

1) Required duty point:

$\dot{V} = 60 \text{ m}^3/\text{h}$ at 60 Hz
 $\Delta p = 300 \text{ mbar}$

2) Choose the performance curve which lies closest to the duty point ①.

In this example, No. 70H

3) Selection and order code:
No. 70H $\Rightarrow$ Type 2BH1 410-7HC31

- 1) Measuring-surface sound-pressure level acc. to EN 21680-1, measured at a distance of 1 m. The pump is throttled to a medium inlet pressure, a hose is connected to the discharge side, and a vacuum-relief valve is not fitted.
- 2) For selecting valves see accessories on pages 16 to 19. The pressure limits of the valves are based on a cooling-agent and ambient temperature of 25 °C, except for the curves 48H to 50H, 116H to 118H, 122H to 124H, (40 °C).
- 3) For 2BH1 943, only mounting on the end-casing is possible.
- 4) Permissible voltage range.

Rated voltage acc. to DIN IEC 38*	Permissible voltage range acc. to DIN VDE 0530 or DIN IEC 34-1**
230 V Δ / 400 V Y	220...240 V Δ / 380...420 V Y
400 V Δ / 690 V Y	380...420 V Δ / 660...725 V Y

* Voltage tolerance here $\pm 10\%$.

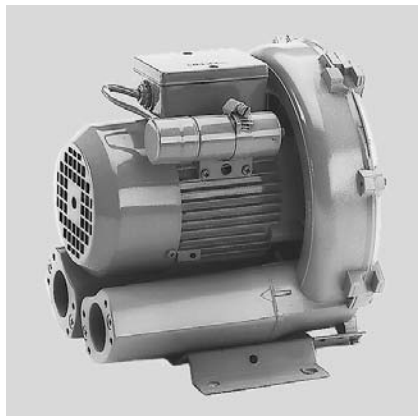
** This voltage range is also indicated on the rating plate, together with the currents occurring in this range. For this range, the permissible voltage tolerance acc. to DIN VDE 0530 and IEC 34-1 is $\pm 5\%$

- 5) With Δ connection, an overload protection with phase failure protection is obligatory.
- 6) Delivery times on request.
- 7) Not possible in voltage versions H.1 and C.1 and H.6 and C.6.
- 8) Pressure-relief valve can only be delivered loose for these types, see accessories.
- 9) Motors designed for heat class F.
- V) Only for vacuum operation.
- K) Compressor operation.

This table offers a selection of standard types.
Further versions and electric connection variants on request.

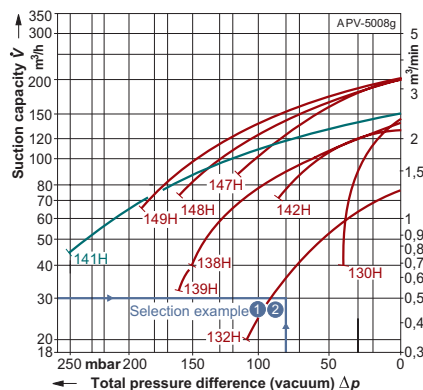
Accessories see pages 16 to 19.

ELMO-G Vacuum Pumps/Compressors, Range 2BH1, Single-Phase AC, 50/60 Hz

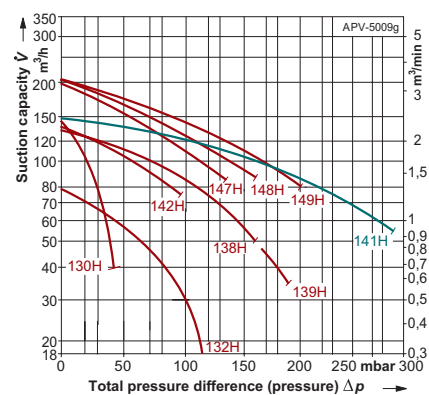


Selection diagram

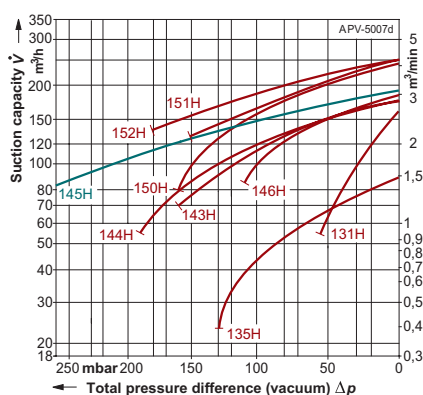
Vacuum operation 50 Hz



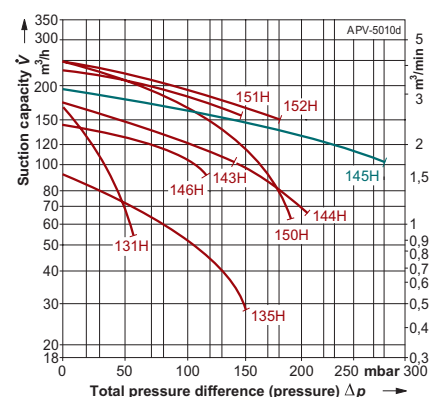
Compressor operation 50 Hz



Vacuum operation 60 Hz



Compressor operation 60 Hz



The performance curves apply for pumping air at 15 °C at the inlet flanges with an air pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25 °C.

ELMO-G Vacuum Pumps/Compressors, Range 2BH1, Single-Phase AC, 50/60 Hz

with single-phase AC motor and integral continuous duty capacitor

Selection and ordering information for 50 Hz									
Curve No.	Motor			Capacitor	Sound-pressure level 1)	Order No.	Weight approx.	Vacuum-relief valve 2) Items x Type	Pressure-relief valve 2) Items x Type
	output kW	Rated current A	Degree of protection	Capacity μ F	dB(A)			2BX2...	2BX2...
130H	0.25	1.95	IP 55	8	57	•2BH1 200-7A A 0 1	8	—	—
132H	0.37	2.6	IP 55	10	58	•2BH1 300-7A A 1 1	10	1 x 110/141	1 x 111/143
138H	0.8	5.2	IP 55	20	63	•2BH1 400-7A A 1 1	15	1 x 110/141	1 x 111/143
139H	1.1	6.2	IP 55	25	63	2BH1 400-7A A 2 1	17	1 x 110/141	1 x 111/143
141H	1.5	9.1	IP 55	40	66	2BH1 410-7H A 3 1	19	1 x 110/141	1 x 111/143
142H	0.5	4.1	IP 55	20	63	2BH1 490-7A A 1 1	15	—	—
147H	1.2	7.9	IP 55	40	66	2BH1 590-7A A 2 1	21	—	—
148H	1.1	6.9	IP 55	25	66	2BH1 500-7A A 1 1	20	1 x 110/145	1 x 111/147
149H	1.5	9	IP 55	40	66	2BH1 500-7A A 2 1	21	1 x 110/145	1 x 111/147

Motor-rated voltage 3): 230 V

Capacitor, continuous duty voltage: 450 V

Selection and ordering information for (50) 60 Hz									
Curve No.	Motor			Capacitor	Sound-pressure level 1)	Order No.	Weight approx.	Vacuum-relief valve 2) Items x Type	Pressure-relief valve 2) Items x Type
	output kW	Rated current A	Degree of protection	Capacity μ F	dB(A)			2BX2...	2BX2...
131H	0.32	4.8	IP 54	20	61	2BH1 200-2A B 0 6	8	—	—
135H	0.45	6.3	IP 55	40	61	2BH1 300-7A B 1 6	10	1 x 114	1 x 115
143H	0.9	11.6	IP 55	80	64	2BH1 400-7A B 1 6	14	1 x 114/142	1 x 115/144
144H	1.3	16.4	IP 55	100	64	2BH1 400-7A B 2 6	16	1 x 114/142	1 x 115/144
145H	1.75	21.5	IP 54	150	69	2BH1 410-1H B 3 6	24	1 x 114/142	1 x 115/144
146H	0.62	10	IP 55	60	64	2BH1 490-7A B 1 6	14	—	—
150H	1.75	21.5	IP 55	150	73	2BH1 590-7A B 2 6	21	—	—
151H	1.3	16	IP 54	100	73	2BH1 500-1A B 1 6	20	1 x 114/146	1 x 115/148
152H	1.75	21.5	IP 54	150	73	2BH1 500-1A B 2 6	21	1 x 114/146	1 x 115/148

Motor-rated voltage 3): 115 V

Capacitor, continuous duty voltage: 240 V

Other voltages

2BH1 ...			
		↑	↑
Required voltage:			
- 50 Hz ■	A	9	
- 60 Hz ■	B	9	

■ Please give required voltage in plain text and also give M1 Y.
e.g. 2BH1 800-1AA09
M1 Y
200 V, 50 Hz

Selection example

Application:

e.g. sewing machines

1) Required duty operating point:

$V = 30 \text{ m}^3/\text{h}$

at 50 Hz

$\Delta p = 80 \text{ mbar}$

2) Choose the performance curve which lies closest to the duty point ①.

In this example, No. 132H

3) Selection and order code:

No. 132H $\hat{=}$ Type 2BH1 300-7AA11

1) Measuring-surface sound-pressure level acc. to EN 21680-1, measured at 1 m distance at medium throttle and with a connected hose line on the pressure-side; without vacuum-relief valve.

2) For selection and ordering information, see accessories. The pressure-relief values of the valves are based on a coolant and ambient temperature of 25 °C.

3) Tolerance $\pm 5\%$.

If during continuous duty only up to 90% of the maximum permissible end pressure are used, the permissible voltage tolerance is increased to $\pm 10\%$.

Accessories see pages 16 to 19.

ELMO-GS Vacuum Pumps/Compressors, Range 2BH1 with Integrated Frequency Converter

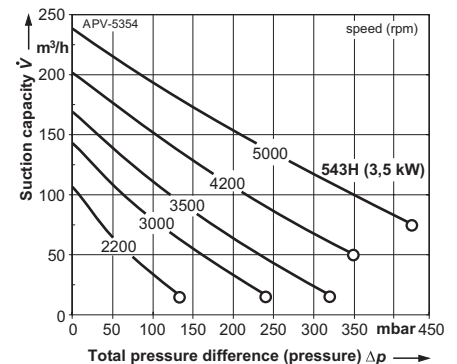
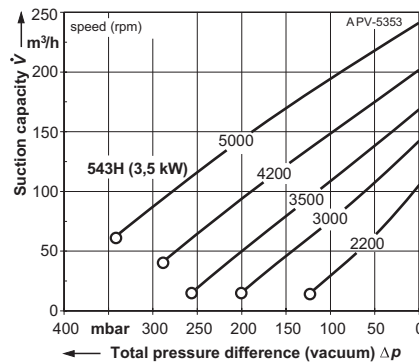


Selection diagram

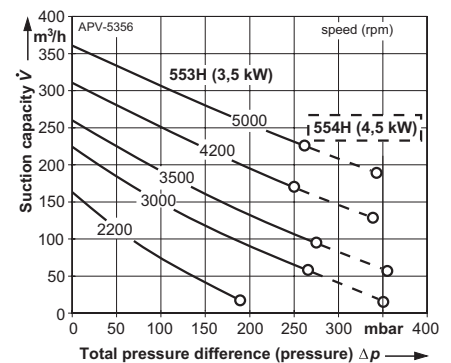
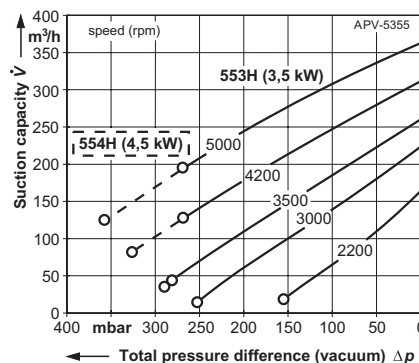
Vacuum operation

Compressor operation

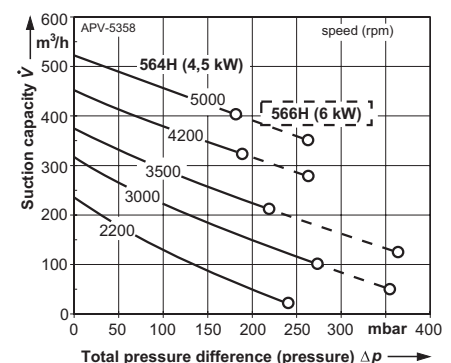
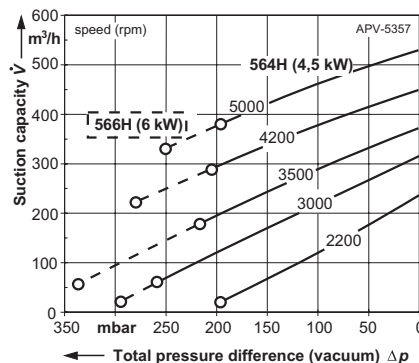
ELMO-GS types 2BH1 400-7AS..



ELMO-GS types 2BH1 500-7AS..



ELMO-GS types 2BH1 600-7AS..



The performance curves are valid for pumping air at 15 °C at the inlet flanges with an air pressure of 1013 mbar with a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25 °C.

ELMO-GS Vacuum Pumps/Compressors, Range 2BH1, with Integrated Frequency Converter

Selection and ordering information

3 ~ 50 ... 60 Hz, IP 54 (Converter IP 55)

ELMO-GS types 2BH1 400-7AS..

Curve No. Speed rpm	Order No.	Input frequency Hz	Rated output kW	Input voltage 1) V	Input current A	Max. differential pressure 2)		Sound-pressure level 3) dB(A)	Weight approx. kg
						Vacuum p.p. mbar	Compressor mbar		
543H	2BH1 400-7AS42	47 ... 63	3.5	380 ... 480	6.4	—	—	—	27
5000						340	425	on request	
4200						290	350	on request	
3500						260	325	on request	
3000						200	245	63	
2200						125	135	on request	

ELMO-GS types 2BH1 500-7AS..

553H	2BH1 500-7AS32	47 ... 63	3.5	380 ... 480	6.4	—	—	—	29
5000						270	260	on request	
4200						270	250	on request	
3500						280	275	on request	
3000						250	265	66	
2200						155	190	on request	
554H	2BH1 500-7AS62	47 ... 63	4.5	380 ... 480	10	—	—	—	32
5000						355	340	on request	
4200						325	340	on request	
3500						290	355	on request	
3000						250	350	66	
2200						155	190	on request	

ELMO-GS types 2BH1 600-7AS..

564H	2BH1 600-7AS62	47 ... 63	4.5	380 ... 480	10	—	—	—	36
5000						195	180	on request	
4200						205	190	on request	
3500						215	220	on request	
3000						260	275	72	
2200						195	240	on request	
566H	2BH1 600-7AS72	47 ... 63	6	380 ... 480	12.1	—	—	—	43
5000						250	265	on request	
4200						280	265	on request	
3500						335	365	on request	
3000						295	355	72	
2200						195	240	on request	

1) Permissible voltage range: 3 ~ voltage at converter: 380 ... 480 V: Voltage tolerance: $\pm 10\%$
Input frequency: 47 ... 63 Hz

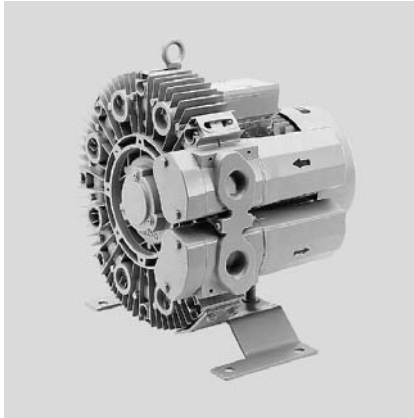
Other voltages on request.
Version with separately located converter on request.

2) For the differential pressure limitation, vacuum-/pressure-relief valves are available as accessories.

3) Measuring-surface sound-pressure level acc. to EN 21680-1, measured at 1 m distance at medium throttle and with a connected hose line on the pressure-side (vacuum pump)/suction-side (compressor); without vacuum-relief valve/pressure-relief valve.

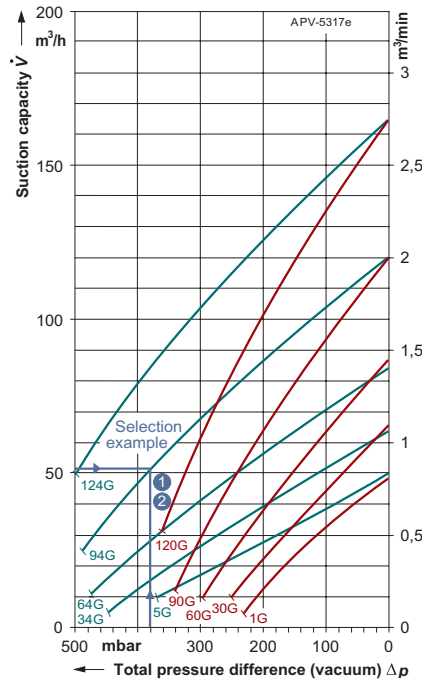
Accessories on request.

ELMO-G Vacuum Pumps/Compressors, Range 2BH7, Three-Phase 50/60 Hz

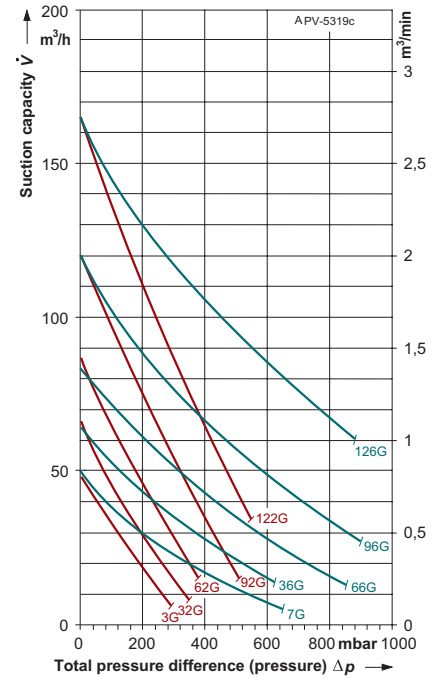


Selection diagram

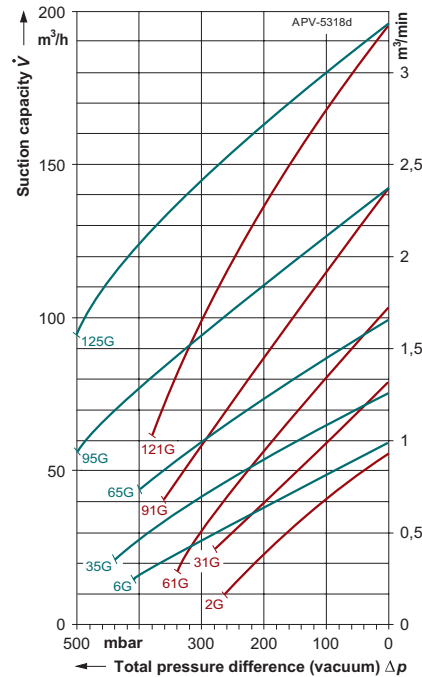
Vacuum operation 50 Hz



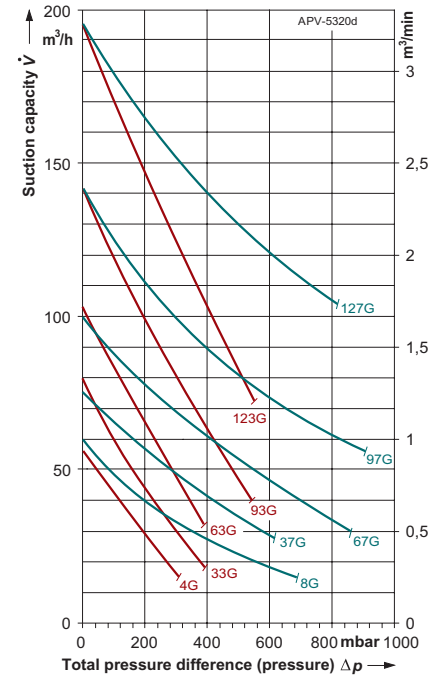
Compressor operation 50 Hz



Vacuum operation 60 Hz



Compressor operation 60 Hz



The performance curves are valid for pumping air at 15 °C at the inlet flanges with an air pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25 °C.

ELMO-G Vacuum Pumps/Compressors, Range 2BH7, Three-Phase 50/60 Hz

Selection and ordering information for 50 Hz 3AC, IP 55							
Curve No.	Motor		Sound-pressure level 1)	Order No.	Weight approx.	Vacuum-relief valve 2) Items x Type	Pressure-relief valve 2) Items x Type
	output kW	Rated current A					
				•AVAILABLE EX STOCK	kg	2BX2...	2BX2...
Vacuum pumps							
1G	0.55	3.55 Δ / 2.05 Y	57	•2BH7 210-0A C 1 1 -7	16	1 x 110/141	—
30G	0.55	3.55 Δ / 2.05 Y	57	2BH7 310-0A C 1 1 -7	16	1 x 110/141	—
60G	1.1	5.7 Δ / 3.3 Y	58	•2BH7 410-0A C 1 1 -7	23	1 x 110/141	—
90G	1.5	6.3 Δ / 3.65 Y	64	•2BH7 510-0A C 1 1 -8	26	1 x 110/141	—
120G	2.2	9.7 Δ / 5.6 Y	65	•2BH7 610-0A C 1 1 -8	32	1 x 110/141	—
5G	1.3	3.1 Δ / 1.8 Y	58	•2BH7 220-0A C 2 1 -7	24	1 x 110/141	—
34G	1.5	6.3 Δ / 3.65 Y	59	2BH7 320-0A C 5 1 -7	28	1 x 110/141	—
64G	1.5	6.3 Δ / 3.65 Y	61	•2BH7 420-0A C 2 1 -7	33	1 x 110/141	—
94G	2.2	9.7 Δ / 5.6 Y	64	•2BH7 520-0A C 2 1 -8	40	1 x 110/141	—
124G	3.3	11.8 Δ / 6.8 Y	67	•2BH7 620-0A C 3 1 -8	48	1 x 110/141	—
Compressors							
3G	0.55	3.55 Δ / 2.05 Y	57	•2BH7 210-0A C 1 1 -7	16	—	1 x 111/143
32G	0.81	3.1 Δ / 1.8 Y	57	•2BH7 310-0A C 2 1 -7	17	—	1 x 111/143
62G	1.1	5.7 Δ / 3.3 Y	58	•2BH7 410-0A C 1 1 -7	23	—	1 x 111/143
92G	2.2	9.7 Δ / 5.6 Y	64	•2BH7 510-0A C 2 1 -8	29	—	1 x 111/143
122G	3.3	11.8 Δ / 6.8 Y	65	•2BH7 610-0A C 3 1 -8	35	—	1 x 111/143
7G	1.5	6.3 Δ / 3.65 Y	58	•2BH7 220-0A C 5 1 -7	28	—	1 x 111/143
36G	1.5	6.3 Δ / 3.65 Y	59	•2BH7 320-0A C 5 1 -7	30	—	1 x 111/143
66G	3	11.8 Δ / 6.8 Y	61	•2BH7 420-0A C 5 1 -7	39	—	1 x 111/143
96G	4	7.8 Δ / 4.5 Y 4)	65	•2BH7 520-0A C 7 6 -8	51	—	1 x 111/143
126G	5.7	9.4 Δ / 5.4 Y 4)	68	•2BH7 620-0A C 5 6 -8	65	—	1 x 111/143

Rated voltage 3): 230 Δ / 400 Y (400 Δ / 690 Y 4), 50 Hz

Selection and ordering information for 60 Hz 3AC, IP 55							
Curve No.	Motor		Sound-pressure level 1)	Order No.	Weight approx.	Vacuum-relief valve 2) Items x Type	Pressure-relief valve 2) Items x Type
	output kW	Rated current A					
• AVAILABLE EX STOCK							
Vacuum pumps							
2G	0.63	2.1 Y	62	•2BH7 210-0A C 1 1 -7	16	1 x 114/142	—
31G	0.63	2.1 Y	62	2BH7 310-0A C 1 1 -7	16	1 x 114/142	—
61G	1.3	3.25 Y	62	•2BH7 410-0A C 1 1 -7	23	1 x 114/142	—
91G	1.75	3.7 Y	68	•2BH7 510-0A C 1 1 -8	26	1 x 114/142	—
121G	2.6	5.8 Y	71	•2BH7 610-0A C 1 1 -8	32	1 x 114/142	—
6G	0.94	1.9 Y	62	•2BH7 220-0A C 2 1 -7	24	1 x 114/142	—
35G	1.75	3.7 Y	63	2BH7 320-0A C 5 1 -7	28	1 x 114/142	—
65G	1.75	3.7 Y	66	•2BH7 420-0A C 2 1 -7	33	1 x 114/142	—
95G	2.6	5.7 Y	70	•2BH7 520-0A C 2 1 -8	40	1 x 114/142	—
125G	3.8	6.8 Y	71	•2BH7 620-0A C 3 1 -8	48	1 x 114/142	—
Compressors							
4G	0.63	2.1 Y	62	•2BH7 210-0A C 1 1 -7	16	—	1 x 115/144
33G	0.94	1.9 Y	62	•2BH7 310-0A C 2 1 -7	17	—	1 x 115/144
63G	1.3	3.25 Y	62	•2BH7 410-0A C 1 1 -7	23	—	1 x 115/144
93G	2.6	5.7 Y	68	•2BH7 510-0A C 2 1 -8	29	—	1 x 115/144
123G	3.8	6.8 Y	71	•2BH7 610-0A C 3 1 -8	35	—	1 x 115/144
8G	1.75	3.7 Y	62	•2BH7 220-0A C 5 1 -7	28	—	1 x 115/144
37G	1.75	3.7 Y	63	•2BH7 320-0A C 5 1 -7	30	—	1 x 115/144
67G	3.5	6.8 Y	66	•2BH7 420-0A C 5 1 -7	39	—	1 x 115/144
97G	4.6	8.0 Δ 5)	71	•2BH7 520-0A C 7 6 -8	51	—	1 x 115/144
127G	6.6	9.5 Δ 5)	72	•2BH7 620-0A C 5 6 -8	65	—	1 x 115/144

Rated voltage 3): 460 Y (460 Δ 5), 60 Hz

Other voltages			
2BH7 □ . □			
50 Hz:	↑	↑	
400 V Δ / 690 V Y 3)	C	6	
required voltage: ■	E	9	
60 Hz:			
460 V Δ 3)	C	6	
required voltage: ■	F	9	

■ Please give required voltage in plain text and add M1 Y.
Single-phase AC on request.
e.g. 2BH7 210-0AF19-7
M1 Y
380 V Δ, 60 Hz

Selection example

Application:

e.g. holding and lifting

1) Required duty point:

$V = 52 \text{ m}^3/\text{h}$ at 50 Hz
 $\Delta p = 380 \text{ mbar}$

2) Choose the performance curve which lies closest to the duty point 1).

In this example, No. **94G**

3) Selection and order code:

No. **94G** ≙ Type 2BH7 520-0AC21-8

- Measuring-surface sound-pressure level acc. to EN 21680-1, measured at a distance of 1 m. The pump is throttled to a medium inlet pressure, a hose is connected to the discharge side, and a vacuum-relief valve is not fitted.
- For selecting valves see accessories on pages 16 to 19. The pressure limits of the valves are based on a cooling-agent and ambient temperature of 25 °C.

Rated voltage acc. to DIN IEC 38*	Permissible voltage range acc. to DIN VDE 0530 or DIN IEC 34-1**	Frequency Hz
230 V Δ / 400 V Y 400 V Δ / 690 V Y	220...240 V Δ / 380...420 V Y 380...420 V Δ / 660...725 V Y	50
460 V Y 460 V Δ	440...480 V Y 440...480 V Δ	60

3) Permissible voltage range.

* Voltage tolerance here ±10%.

** This voltage range is also indicated on the rating plate, together with the currents occurring in this range. For this range, the permissible voltage tolerance acc. to DIN VDE 0530 and IEC 34-1 is ±5%.

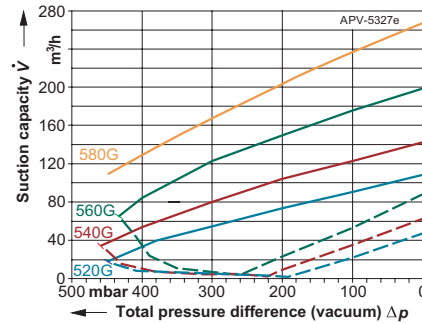
Accessories see pages 16 to 19.

ELMO-GS Vacuum Pumps/Compressors, Range 2BH7, with Integrated Frequency Converter

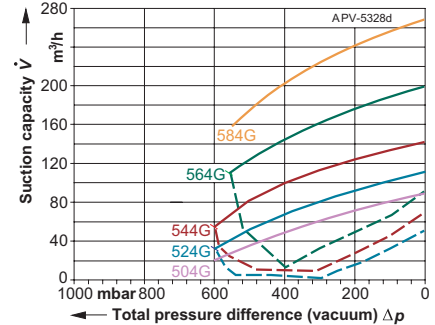


Selection diagram, vacuum operation

2BH7 .10-0AS (single-stage)

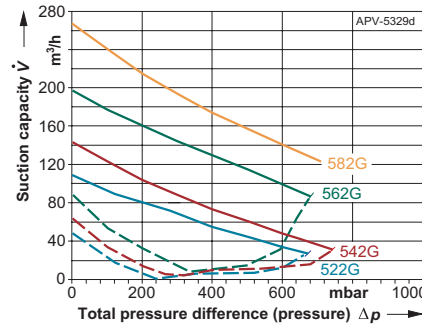


2BH7 .20-0AS (two-stage)

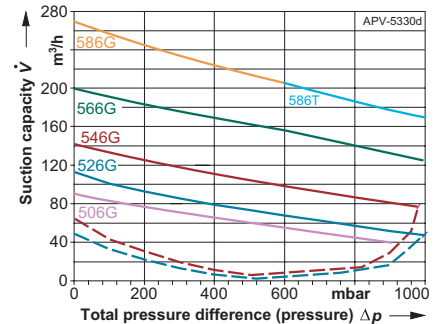


Selection diagram, compressor operation

2BH7 .10-0AS (single-stage)



2BH7 .20-0AS (two-stage)



The performance curves are valid for pumping air at 15 °C at the inlet flanges with an air pressure of 1013 mbar with a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25 °C.

Selection and ordering information

Curve No.	Motor			Sound-pressure level ¹⁾	Order No.	Weight approx.	Vacuum-relief valve ²⁾ Items x Type	Pressure-relief valve ²⁾ Items x Type
	output	Rated voltage ³⁾	current					
	kW	V	A					
Vacuum pumps								
520G	2.3	380...480 V	4.7	76	2BH7 310-0AS52-7	19	1 x 110	—
540G	3.3	380...480V	6.4	76	2BH7 410-0AS32-7	29	1 x 110	—
560G	4.5	380...480 V	10	78	2BH7 510-0AS42-8	36	1 x 110	—
580G	4.5	380...480 V	10	77	2BH7 610-0AS32-8	36	1 x 110	—
504G	2.3	380...480 V	4.7	74	2BH7 220-0AS52-7	29	1 x 110	—
524G	2.3	380...480 V	4.7	76	2BH7 320-0AS52-7	34	1 x 110	—
544G	3.3	380...480 V	6.4	76	2BH7 420-0AS32-7	37	1 x 110	—
564G	4.5	380...480 V	10	78	2BH7 520-0AS42-8	48	1 x 110	—
584G	6	380...480 V	12.2	80	2BH7 620-0AS42-8	59	1 x 110	—
Compressors								
522G	3.3	380...480 V	6.4	76	2BH7 310-0AS62-7	22	—	on request
542G	4.5	380...480 V	10	76	2BH7 410-0AS52-7	33	—	on request
562G	6	380...480 V	12.2	79	2BH7 510-0AS62-8	42	—	on request
582G	8.3	380...480 V	16	77	2BH7 610-0AS52-8	54	—	on request
506G	3.3	380...480 V	6.4	74	2BH7 220-0AS62-7	32	—	on request
526G	4.5	380...480 V	10	76	2BH7 320-0AS82-7	41	—	on request
546G	6	380...480 V	12.2	76	2BH7 420-0AS72-7	47	—	on request
566G	8.3	380...480 V	16	78	2BH7 520-0AS82-8	66	—	on request
586G	8.3	380...480 V	16	80	2BH7 620-0AS52-8	66	—	on request
586T	11.3	380...480 V	25	80	2BH7 620-0AT61-8 ⁴⁾	74	—	on request

Dimensions see page 28.

1) Measuring-surface sound-pressure level, given for 5,000 rpm, acc. to EN 21680-1, measured at 1 m distance at medium throttle and a connected hose line on the suction-side (compressor)/pressure-side (vacuum pump); without pressure-/vacuum-relief valve.

2) For selection and ordering information, see accessories. The pressure-relief values of the valves are based on a coolant and ambient temperature of 25 °C.

3) Tolerance ±10%. Input frequency 47 to 63 Hz. Other voltages on request.

Version with separate converter on request.

4) Without converter: suitable for operation with separate converter 6SE3222-4DG40.

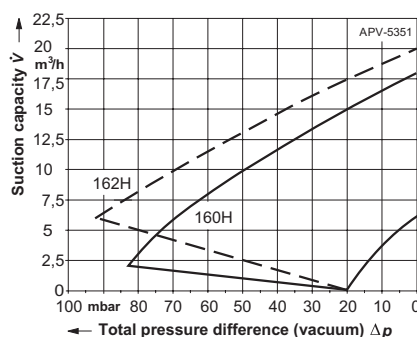
Accessories see page 16 to 19.

ELMO-G Vacuum Pumps/Compressors, Range 2BH100 "Little Star"

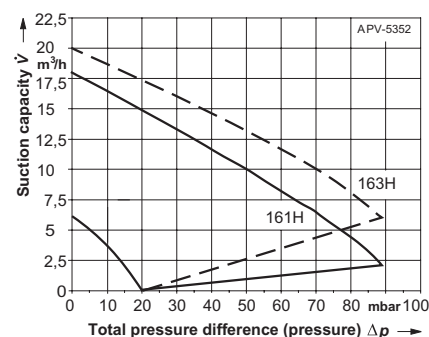


Selection diagram

Vacuum operation



Compressor operation



Selection and ordering information

ELMO-G types 2BH100

Curve No. Speed n rpm	Control voltage (0...10 V DC) V	Order No. • AVAILABLE EX STOCK	Rated output W	Rated voltage V	Rated current A	Max. differential pressure Vacuum p.p. mbar	Compressor mbar	Sound-pressure level ¹⁾ dB(A)	Weight approx. kg
IP 66, with cover (electronics as accessories ²⁾)									
160H / 161H		• 2BH1 000-0AA42 ²⁾	70	24 DC	4.25	—	—	48	1.0
η_{max}	10					83	89		
7000	7 ± 0.2					78	87		
6000	6.1 ± 0.2					69	68		
5000	5.2 ± 0.2					51	54		
4000	4.35 ± 0.2					34	35		
3000	3.5 ± 0.2					20	20		
IP 66, with cover and integrated electronics									
162H / 163H		• 2BH1 000-0AB32	80	24 DC	4.5	—	—	48	1.0
η_{max}	10					92	89		
7000	7.15 ± 0.1					81	88		
6000	6.1 ± 0.1					68	72		
5000	5.1 ± 0.1					52	55		
4000	4.05 ± 0.1					34	36		
3000	3.05 ± 0.1					20	21		

Version without cover available on request.

1) Measuring-surface sound-pressure level acc. to EN 21680, T1, measured at 1 m distance with closed suction and pressure-side, at 7400 rpm. Tolerance: ±3 dB(A).

2) Characteristic data determined with external electronics, type 2BX4 130, or abbreviation "B30" (see accessories).

Accessories see page 19.

The performance curves are valid for pumping air at 15 °C at the inlet flanges with an air pressure of 1013 mbar with a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25 °C.

Accessories for ELMO-G/GS Vacuum Pumps and Compressors

Selection and ordering information

		For ELMO-G/GS Type	Order No.	Ø thread mm / inches	Weight approx. kg
	Suction-side through-filter for vacuum pumps ¹⁾ incl. mounting kit for fixed installation: Gasket, threaded flange, double pipe nipple, pipe elbow, through-filter	2BH1 3	2BX2 060		2.7
		2BH7 2...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76	2BX2 060		2.7
		2BH7 2...5.	2BX4 060		2.7
	Suction-side through-filter for vacuum pumps ¹⁾ incl. gasket, hose flange ²⁾ , double nipple, through-filter, hose clips, without hose line between filter and vacuum pump	2BH1 2 / 2BH1 40...0. / -...1. / -...2. / 2BH1 49 / 2BH15 / 16	2BX2 061		5
		2BH1 40...3. / -...4. / 2BH1 41	2BX2 064		5
	Suction-side through-filter for vacuum pumps ¹⁾ incl. double nipple, through-filter, hose clips, without hose line between filter and vacuum pump including connecting flange, gasket, reducing nipple, through-filter, hose clips with hose line between filter and vacuum pump	2BH1 8	2BX2 063		5.5
		2BH1 90 / 91 2BH1 94	2BX2 065 2BX2 066		20 22
	Replacement filter cartridge for 2BX2 060 for 2BX2 061/063/064 for 2BX2 065/066		2BY7 101 2BY7 103 2BY7 104		0.4 0.6 0.8
	Suction filter for compressors ¹⁾ including mounting kit: Gasket, threaded flange ³⁾ , pipe elbow and, dep. on ELMO-G type, spigot, adapter flange, nipple, reducing coupling	2BH1 2 / 2BH1 40...0. / -...1. / -...2. / 2BH1 49 2BH1 3. 2BH1 40...3. / -...4. / 2BH1 41 2BH1 5. / 60 / 61 / 69 2BH1 64 2BH1 8.	2BX2 101 2BX2 100 2BX2 107 2BX2 102 2BX2 103 2BX2 104		3 1.4 3 2.7 5.1 5.1
		2BH7 2...C1. / -...C2. / -...C4. / 2BH7 3...C... / 2BH7 4...C.. 2BH7 2...C5.. 2BH7 3...S... / 2BH7 4...S... / 2BH7 5 / 76	2BX2 100 2BX4 080 2BX2 108		1.4 1.4 3
		Through filter, suction-side	2BH1 90 / 91 2BH1 94	2BX2 065 2BX2 066	
	Replacement filter cartridge for 2BX2 100 for 2BX2 101 / 102 / 107 / 108 for 2BX2 103 / 104		2BY7 100 2BY7 101 2BY7 102		0.4 0.5 0.6
	Additional silencer incl. gasket and screws Silencing was measured at a distance of 1 m at medium throttle with a connected hose line on the suction-side (vacuum operation) or pressure-side (compressor operation).	Silencing dB			
		3 4 3 3 4 5 4 4 4 4	2BH1 2 2BH1 3 2BH1 40...0. / -...1. / -...2. / 2BH1 49 2BH1 40...3. / -...4. / 2BH1 41. 2BH1 5 2BH1 6 2BH1 8 2BH1 90 / 91 2BH1 94	2BX1 030 2BX1 031 2BX1 030 2BX1 045 2BX1 030 2BX1 030 2BX1 055 2BX1 056 2BX1 057	50 40 50 50 50 50 80 115 150
	4 on request	2BH7 2...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76	2BX1 031	40	0.45
		2BH7 2...5.	2BX4 000	40	0.45
		Threaded flange incl. gasket and screws	2BH1 2 / 2BH1 40...0. / -...1. / -...2. / 2BH1 49 2BH1 3 2BH1 40...3. / -...4. / 2BH1 41 2BH1 5 / 16 2BH1 90 / 91 2BH1 94	2BX1 038 2BX1 037 2BX1 040 2BX1 041 2BX1 042 2BX1 043	G1½ G1¼ G1½ G2 G4 G5
2BH7 2...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76 2BH7 2...5.			2BX1 037 2BX4 040	G1¼ G1½	0.22 0.22

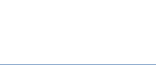
1) All filters are suitable only for separation with dry air and cannot be used for liquids. Installation must be made to ensure that no water can enter the filter.

2) Through-filter 2BX2 064 with hose flange 2BX1 034.

3) Suction filter 2BX2 107 with threaded flange 2BX1 040.

Accessories for ELMO-G/GS Vacuum Pumps and Compressors

Selection and ordering information

	For ELMO-G/GS	Order No.	Ø (thread)	Weight approx.
	Type		mm / inches	kg
 Hose flange incl. gasket and screws	2BH1 2 / 2BH1 40-...0. / -...1. / -...2. / 2BH1 49 / 2BH1 5 2BH1 3 2BH1 40-...3. / -...4. / 2BH1 41 2BH1 6 2BH1 8 2BH1 90 / 91 2BH1 94	2BX1 033 2BX1 032 2BX1 034 2BX1 036 2BX1 047 2BX1 048 2BX1 046	50 40 50 60 G1½ 114 150	0.11 0.1 0.13 0.17 0.4 2.6 7.5
	2BH7 2-...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76 2BH7 2-...5.	2BX1 032 2BX4 020	40 40	0.1 0.1
 1 set of feet for vertical mounting on the end cover (1 set = 3 pieces)	2BH1 2 2BH1 3 / 14 2BH1 5 2BH1 6 2BH1 8 2BH1 90 / 91	— 2BX2 120 2BX2 121 2BX2 122 2BX2 123 2BX2 123		0.15 0.15 0.45 1.4 1.4
	2BH7 2 2BH7 3 / 74 2BH7 5 / 76	2BX2 135 2BX2 127 2BX2 128		0.15 0.15 0.2
 Fixing clamps for floor mounting (1 set = 4 retaining washers, 4 fixing screws M 12 x 20 and 5 clamping devices)	2BH1 943	2BX2 124		3.5
 Vacuum-relief valve, suction-side ¹⁾ with built-on adapter, one gasket and screws for 50-Hz operation:	2BH1 3 ²⁾ / 14 2BH1 5 / 16	2BX2 141 ■ 2BX2 145 ■		0.5 0.5
	2BH7 2-...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76 2BH7 2-...5.	2BX2 141 ■ 2BX2 171 ■		0.5 0.5
	for 60-Hz operation:			
	2BH1 3 ²⁾ / 14 2BH1 5 / 16	2BX2 142 ■ 2BX2 146 ■		0.5 0.5
	2BH7 2-...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76 2BH7 2-...5.	2BX2 142 ■ 2BX2 172 ■		0.5 0.5
 Pressure-relief valve, suction-side ²⁾ with built-on adapter, one gasket and screws for 50-Hz operation:	2BH1 3 ²⁾ / 14 2BH1 5 / 16	2BX2 143 ■ 2BX2 147 ■		0.5 0.5
	2BH7 2-...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76 2BH7 2-...5.	2BX2 143 ■ 2BX2 173 ■		0.5 0.5
	for 60-Hz operation:			
	2BH1 3 ²⁾ / 14 2BH1 5 / 16	2BX2 144 ■ 2BX2 148 ■		0.5 0.5
	2BH7 2-...1. / -...2. / -...4. / 2BH7 3 / 74 / 75 / 76 2BH7 2-...5.	2BX2 144 ■ 2BX2 174 ■		0.5 0.5

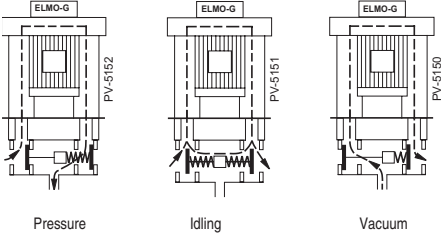
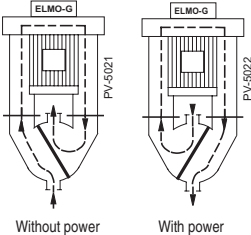
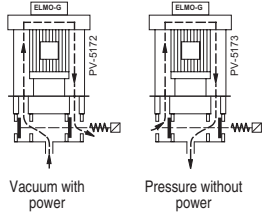
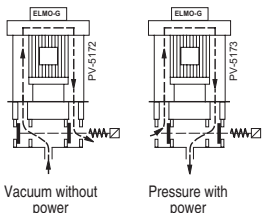
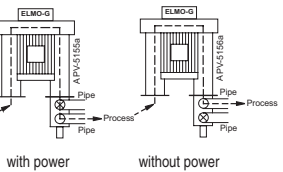
1) For the required quantity, see pages 5, 7, 9, 13.

2) Except for 2BH1 30.-AB1. / -AH1., on request.

■ Add a "-Z" to the order number and the order no. of the ELMO-G should be given as follows: Example 2BX2 142-Z
MLFB=2BH1 400-7AH16

Accessories for ELMO-G/GS Vacuum Pumps and Compressors

Selection and ordering information

		Solenoid valves	Rated voltage	Rated current	For ELMO-G/GS Type	Order No.	Weight approx. kg
		Changeover valve Single spool for changeover from vacuum to pressure operation Load factor: 100 % Operate time: ≤ 0.35 s Release time: ≤ 0.4 s	24 V DC voltage	1.5 A	2BH1 30 2BH1 40 2BH1 59 2-phase	2BX9 328 - OMA0 2BX9 328 - OMC0 2BX9 328 - OME0 on request	2.5
			230 V AC 50 / 60 voltage	0.16 A	2BH1 30 2BH1 40 2BH1 59 2-phase	2BX9 328 - OMA1 2BX9 328 - OMC1 2BX9 328 - OME1 on request	2.5
		Changeover valve Double spool for changeover from/to vacuum, pressure or idling operation Load factor: 100 % Operate time: ≤ 0.35 s Release time: ≤ 0.4 s	24 V DC voltage	0.8 A	2BH1 30 2BH1 40 2BH1 59 2-phase	2BX9 328 - OMB0 2BX9 328 - OMD0 2BX9 328 - OMF0 on request	2.5
			230 V AC 50 / 60 Hz voltage	0.14 A	2BH1 30 2BH1 40 2BH1 59 2-phase	2BX9 328 - OMB1 2BX9 328 - OMD1 2BX9 328 - OMF1 on request	2.5
		Changeover valve for changeover from vacuum to pressure operation Load factor: 100 % Operate time: ≤ 0.35 s Release time: ≤ 0.4 s	24 V DC voltage	1.0 A	2BH1 50 2BH1 60 2BH1 69 2-phase	2BX9 328 - OML0 on request	9.6
			230 V AC 50 / 60 Hz voltage	0.13 A	2BH1 50 2BH1 60 2BH1 69 2-phase	2BX9 328 - OML1 on request	9.6
		Changeover valve for changeover from vacuum to pressure operation Load factor: 100 % Operate time: ≤ 0.35 s Release time: ≤ 0.4 s	24 V DC voltage	1.0 A	2BH7 .1.	2BX9 328 - 1MC0 on request	on request
			230 V AC 50 / 60 Hz voltage	0.13 A	2BH7 .1.	2BX9 328 - 1MC1 on request	on request
		Changeover valve for changeover from vacuum to pressure operation Load factor: 100 % Operate time: ≤ 0.35 s Release time: ≤ 0.4 s	24 V DC voltage	on request	2BH1 80 / 81 2BH1 90 / 91	2BX9 328 - 1MA0 2BX9 328 - 1MB0	9.5 10.5
			230 V AC 50 / 60 Hz voltage	on request	2BH1 80 / 81 2BH1 90 / 91	2BX9 328 - 1MA1 2BX9 328 - 1MB1	9.5 10.5
		Switch-over valve to switch between two different pressure/vacuum conducts with the same flow direction or flow interruption with one conveyor conduct. Load factor: 100 % Operate time: ≤ 0.35 s Release time: ≤ 0.4 s	24 V DC voltage	2.4 A	2BH1 5 / 16	2BX9 328 - 0MJ0	4.8
			230 V AC 50 / 60 Hz voltage	0.5 A	2BH1 5 / 16	2BX9 328 - 0MJ1	4.8

for 2BH7: on request.

Accessories for ELMO-G/GS Vacuum Pumps and Compressors

Selection and ordering information

	For ELMO-G/GS Type	Order No.	Weight approx. kg
Vacuum-relief valve, suction-side¹⁾ for pipeline mounting for 50-Hz operation:  2BX2 11. for 60-Hz operation:  2BX2 15.	2BH1 3. to 2BH1 8. 2BH1 900-...1. / -...2. 2BH1 910-...2. / -...3. / -...4. 2BH1 943-...4. 2BH1 900-...0. / 2BH1 910-...1. 2BH1 943-...2. / -...3.	2BX2 110 ■ 2BX2 150 ■ 2BX2 152 ■	0.3 14 27
	2BH7	2BX2 110 ■	0.3
	2BH1 3. to 2BH1 6 2BH1 80 / 81 2BH1 840-...3. 2BH1 900-...1. / -...2. 2BH1 910-...3. 2BH1 910-...2. 2BH1 840-...2. 2BH1 900-...0. 2BH1 910-...1. 2BH1 943-...3. / -...4. 2BH1 943-...2.	2BX2 114 ■ 2BX2 150 ■ 2BX2 152 ■ 2BX2 154 ■	0.3 14 27 54
	2BH7	2BX2 114 ■	0.3
Pressure-relief valve, discharge-side¹⁾ for pipeline mounting up to max. $\Delta p = 600$ mbar for 50-Hz operation:  2BX2 11. for 60-Hz operation:  2BX2 15.	2BH1 3. to 2BH1 6 2BH1 80 / 81 2BH1 840-...3. 2BH1 900-...1. / -...2. 2BH1 910-...3. / -...4. 2BH1 840-...2. 2BH1 900-...0. 2BH1 910-...1. / -...2. / -...4. 2BH1 943-...2. / -...3. / -...4.	2BX2 111 ■ 2BX2 151 ■ 2BX2 153 ■	0.3 8 18
	2BH7	2BX2 111 ■	0.3
	2BH1 3. to 2BH1 6 2BH1 80 / 81 2BH1 900-...2. 2BH1 840-...3. 2BH1 900-...1. 2BH1 910-...3. 2BH1 840-...2. 2BH1 900-...0. 2BH1 910-...1. / -...2. 2BH1 943-...4. 2BH1 943-...2. / -...3.	2BX2 115 ■ 2BX2 151 ■ 2BX2 153 ■ 2BX2 155 ■	0.3 8 18 33
	2BH7	2BX2 115 ■	0.3

1) For the required quantity, see pages 5, 7, 9, 13.

■ Please add a "-Z" to the order number and give the order number for the ELMO-G as follows: Example 2BX2 142-Z
MLFB=2BH1 400-7AH16

Accessories for 2BH100

	Delivery loose Order No. • AVAILABLE EX STOCK	Delivery with the pump Abbreviation ¹⁾	Weight approx. kg
External electronics (Variotronic) ²⁾ , Loose	•2BX4 130	—	0.2
Set of plugs ³⁾ , loose , eight-pole, for connecting motor Variotronic, comprising: 1 x socket casing, 3 x socket contact AWG 20 5 x socket contact AWG 26, 2 x 1 each spare contact	•2BX4 131	—	—
External electronics (Variotronic) ²⁾ , complete , comprising: Electronics type 2BX4 130, socket set type 2BX4 131	—	B30	0.2
Rubber buffer (1 set = 4 pieces) (rubber metal bearing)	•2BX4 132	B31	—

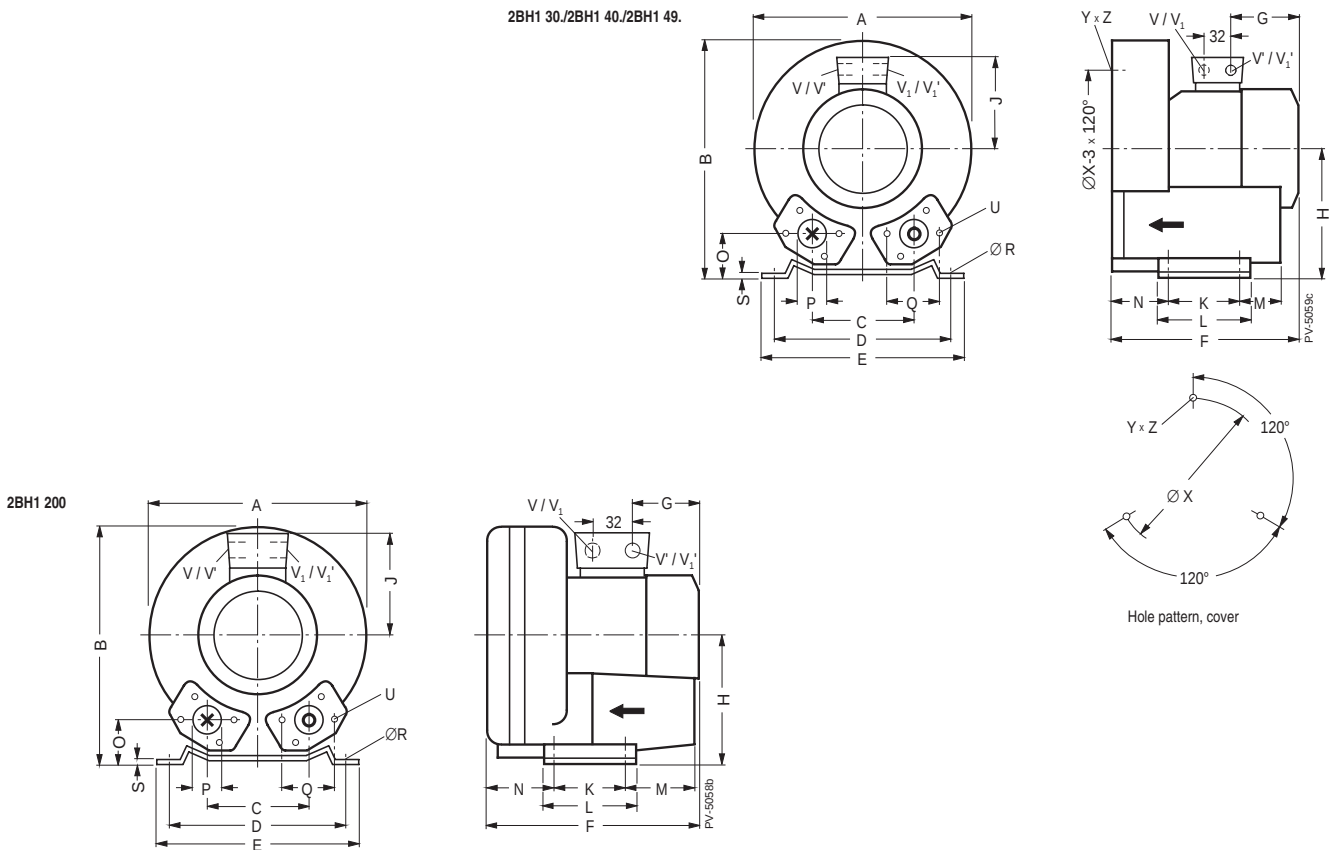
1) Please add a "-Z" to the order number and add the abbreviation as follows: Example 2BH1 000-OAA42-Z
B30 + B31

2) With ambient temperatures over 25 °C the operating speed may be less depending on the cooling of the electronics system.

3) Note: Pliers for the socket contacts are not included with delivery; obtainable from Molex Deutschland / Heilbronn; Germany
Fax ++49 (0) 70 66 / 95 55 29; Type 69008-0274.

Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

Dimensions for 2BH1 20., 2BH1 30., 2BH1 40., 2BH1 49. (mm)

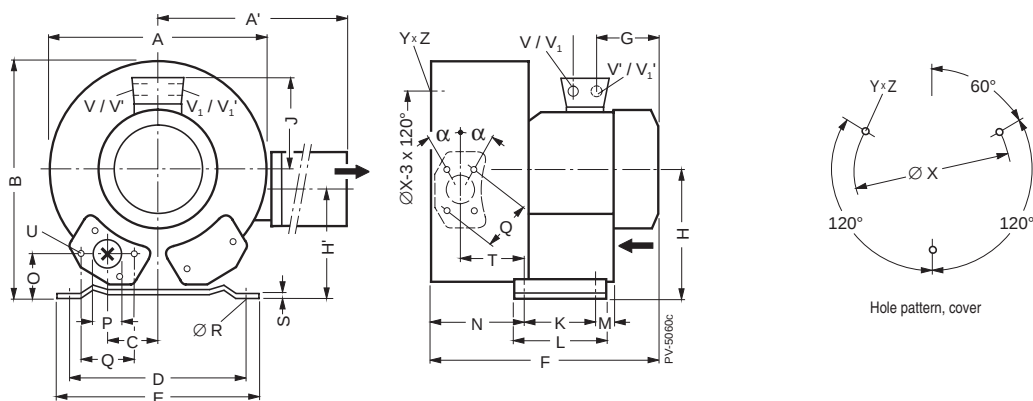


Type	Phases	Curve No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O
2BH1 200 - 7AA0. - 2AB0. - 7AH0.	1 ~ 3 ~	130H 131H 1H/2H	233	250	110	205	230	244	96 90 92	136	101	83	108	100	75	52
2BH1 30. - 7A.1. - 7AD.. - 7A.0. - 7A.1.	1 ~ 3 ~ EEx 3 ~	132H/135H 200H 3H/7H 6H/10H	246	247	90	205	230	256 219 256	133 108 92 129	128	111 145 101 111	83	108	75	71	39
2BH1 40. - 7A.1. - 7A.2. - 7AD.. - 7A.0.	1 ~ 3 ~ EEx 3 ~	138H/143H 139H/144H 202H 11H/15H 12H/16H 13H/17H	285	302	115	225	255	292	156	154	120	95	130	70	75	46
2BH1 40. - 7A.0. - 7A.1. - 7A.2.	3 ~		285	302	115	225	255	269 292	131 129 153	154	154 111 120	95	130	70	75	46
2BH1 49. - 7AA1. - 7AB1. - 7AH1.	1 ~ 3 ~	142H 146H 14H/18H	285	302	115	225	255	292	156 153	154	120	95	130	70	75	46
Type	Phases	Curve No.	P	Q	Ø R	S	U	V (1 ~)	V' (1 ~)	V ₁ (3 ~)	V' ₁ (3 ~)	Y x Z	X holes	Ø X		
2BH1 200 - 7AA0. - 2AB0. - 7AH0.	1 ~ 3 ~	130H 131H 1H/2H	G 1½ (15 deep)	72	10	2.5	M 6 x 19	M 16 x 1.5 — —	M 25 x 1.5 Pg 11 —	— — M 25 x 1.5	— — M 16 x 1.5	—	—	—	—	
2BH1 30. - 7A.1. - 7AD.. - 7A.0. - 7A.1.	1 ~ 3 ~ EEx 3 ~	132H/135H 200H 3H/7H 6H/10H	G 1¼ (15 deep)	64	10	2.5	M 6 x 17	M 16 x 1.5 — — —	M 25 x 1.5 — — —	— — M 25 x 1.5	— — M 16 x 1.5	M 6 x 15	0°/120°/240°	Ø 140		
2BH1 40. - 7A.1. - 7A.2. - 7AD.. - 7A.0.	1 ~ 3 ~ EEx 3 ~	138H/143H 139H/144H 202H 11H/15H 12H/16H 13H/17H	G 1½ (15 deep)	72	12	3	M 6 x 19	M 16 x 1.5 — — —	M 25 x 1.5 — — —	— — M 25 x 1.5	— — M 16 x 1.5	M 6 x 15	0°/120°/240°	Ø 174		
2BH1 49. - 7AA1. - 7AB1. - 7AH1.	1 ~ 3 ~	142H 146H 14H/18H	G 1½ (15 deep)	72	12	3	M 6 x 19	M 16 x 1.5 — —	M 25 x 1.5 — —	— — M 25 x 1.5	— — M 16 x 1.5	M 6 x 15	0°/120°/240°	Ø 174		

Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

Dimensions for 2BH1 31., 2BH1 41. (mm)

2BH1 31. / 2BH1 41.

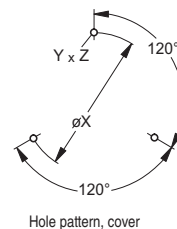
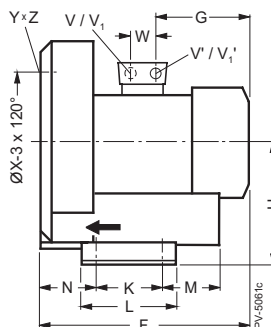
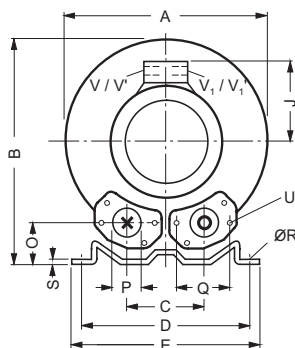


Type	Phases	Curve No.	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M		
2BH1 31. - 7H.2.	3 ~	61H/65H	284	316	270	45	205	230	316	129	128	106	111	83	108	75		
2BH1 41. - 7H.3.	1 ~	141H/145H	321	321	315	58	225	255	401	185	154	154	128	95	130	70		
- 1HD.	3 ~ EEx	232H							401	163			162					
- 1H.3.	3 ~	68H/70H							401	185			128					
- 1H.4.		69H/71H							401	185			128					
Type	Phases	Curve No.	N	O	P	Q	Ø R	S	T	U	V (1~)	V' (1~)	V ₁ (3~)	V' ₁ (3~)	α	Ø X	Y x Z	X holes
2BH1 31. - 7H.2.	3 ~	61H/65H	130	39	G 1¼ (15 deep)	64	10	2.5	88	M 6 x 17	—	—	M 25 x 1.5	M 16 x 1.5	27°	140	M 6 x 15	51°/171°/291°
2BH1 41. - 7H.3.	1 ~	141H/145H	151	46	G 1½ (15 deep)	72	12	3	106	M 6 x 19	M 16 x 1.5	M 25 x 1.5	—	—	28°	174	M 6 x 15	51°/171°/291°
- 1HD.	3 ~ EEx	232H									—	—	M 25 x 1.5	M 16 x 1.5				
- 1H.3.	3 ~	68H/70H									—	—						
- 1H.4.		69H/71H									—	—						

Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

Dimensions for 2BH1 50., 2BH1 59., 2BH1 60., 2BH1 69. (mm)

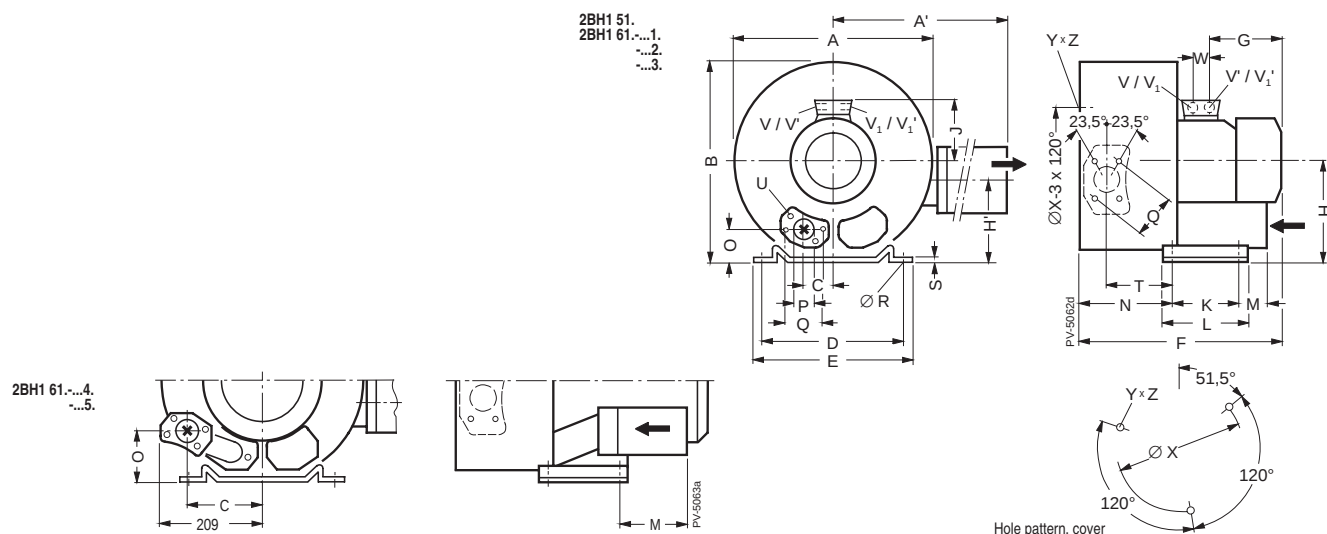
2BH1 50. / 2BH1 59.
2BH1 60. / 2BH1 69.



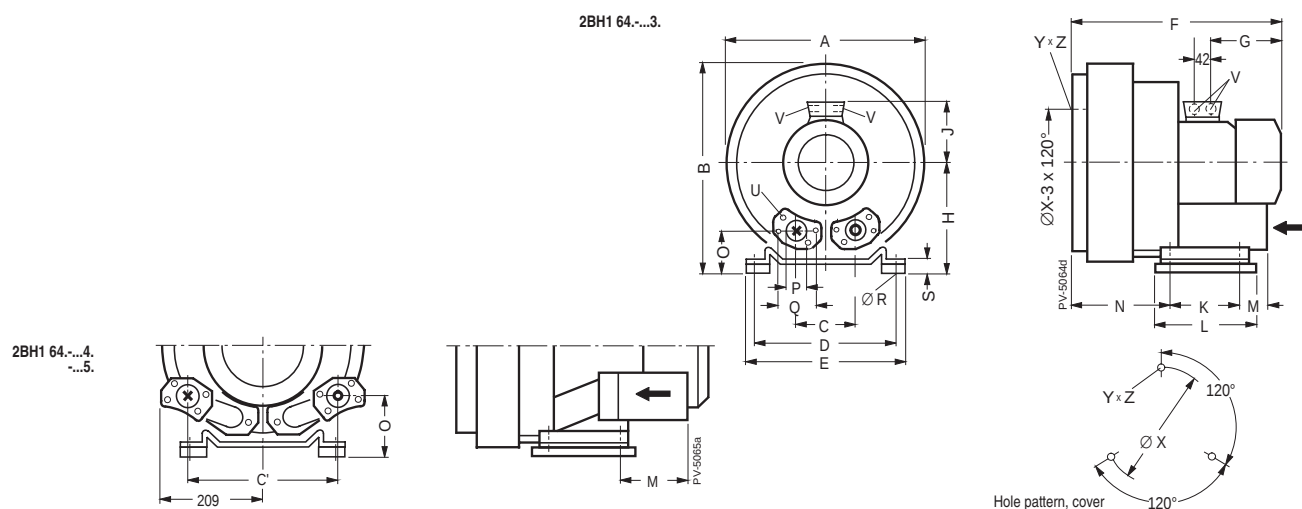
Type	Phases	Curve No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O
2BH1 50. - 7A.1. - 7A.2. - 7AD..	1. ~ 3 ~ EEx	148H/151H 149H/152H 204H	334	337	120	260	295	313 345 345	156 188 163	175	120 128 162	115	155	96	87	48
2BH1 50. - 7A.0. - 7A.1. - 7A.2. - 7A.3.	3 ~	19H/24H 20H/25H 21H/26H 22H/27H/204H	334	337	120	260	295	314 314 346 346	153 153 185 185	175	120 128	115	155	96	87	48
2BH1 59. - 7AA2. - 7AB2. - 7AE1. - 7AH2.	1 ~ 3 ~	147H 150H 23H 28H	334	337	120	260	295	345 314 345	188 153 185	174.5	128 120 128	115	155	96	87	48
2BH1 60. - 7A.0. - 7A.1. - 7A.2. - 7A.3.	3 ~	29H 30H/35H 31H/36H 32H/37H/206H	382	384	125	290	325	377 411 432	185 190 211	198	128 135 148	140	180	84	109	54
2BH1 69. - 7A.1. - 7A.2.			382	384	125	290	325	377	185	198	128 135	140	180	84	109	54
Type	Phases	Curve No.	Ø P	Q	Ø R	S	U	V (1 ~)	V' (1 ~)	V ₁ (3 ~)	V' ₁ (3 ~)	Ø X	Y x Z	X holes	W	
2BH1 50. - 7A.1. - 7A.2. - 7AD..	1 ~ 3 ~ EEx	148H/151H 149H/152H 204H	55	83	14	4	M 8 x 17	M 16 x 1.5	M 25 x 1.5	— — M 25 x 1.5	— — M 16 x 1.5	200	M 8 x 20	0°/120°/240°	32	
2BH1 50. - 7A.0. - 7A.1. - 7A.2. - 7A.3.	3 ~	19H/24H 20H/25H 21H/26H 22H/27H/204H	—	—	—	—	—	—	—	—	—	—	—	—	—	
2BH1 59. - 7AA2. - 7AB2. - 7AE1. - 7AH2.	1 ~ 3 ~	147H 150H 23H 28H	55	83	14	4	M 8 x 17	M 16 x 1.5	M 25 x 1.5	— — M 25 x 1.5	— — M 16 x 1.5	200	M 8 x 20	0°/120°/240°	32	
2BH1 60. - 7A.0. - 7A.1. - 7A.2. - 7A.3.	3 ~	29H 30H/35H 31H/36H 32H/37H/206H	55	83	15	4.5	M 8 x 17	— M 32 x 1.5	— M 32 x 1.5	M 25 x 1.5 M 32 x 1.5	M 16 x 1.5 M 32 x 1.5	240	M 10 x 20	0°/120°/240°	32 42	
2BH1 69. - 7A.1. - 7A.2.	3 ~	33H 33H/38H	55	83	15	4.5	M 8 x 17	— M 32 x 1.5	— M 32 x 1.5	M 25 x 1.5 M 32 x 1.5	M 16 x 1.5 M 32 x 1.5	240	M 10 x 20	0°/120°/240°	32 42	

Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

Dimensions for 2BH1 51., 2BH1 61., 2BH1 64. (mm)



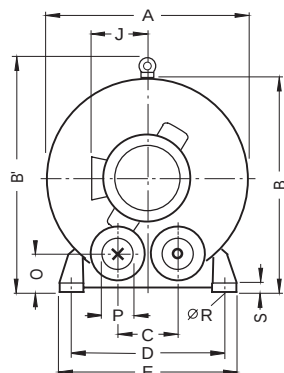
Type	Curve No.	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M		
2BH1 51. - 7H.4. - 7H.5.	74H/78H 75H/79H/234H	372	411	371	60	260	295	465 499	190 224	175	144	135	115	155	98		
2BH1 61. - 7H.1. - 7H.2. - 7H.3. - 1H.4. - 1H.5.	80H/85H 81H/86H 82H/87H 83H/88H 84H/89H/236H	426	424	420	63 155	290	325	473 507 528 569	185 190 211 256	198	164	128 135 148 196	140	180	84 225		
Type	Curve No.	N	O	Ø P	Q	Ø R	S	T	U	V	V'	V ₁	V' ₁	Ø X	Y x Z	X holes	W
2BH1 51. - 7H.4. - 7H.5.	74H/78H 75H/79H/234H	171	48	55	83	14	4	116	M 8 x 17			4 x M 32 x 1.5		200	M 8 x 20	51.5°/171.5°/291.5°	42
2BH1 61. - 7H.1. - 7H.2. - 7H.3. - 1H.4. - 1H.5.	80H/85H 81H/86H 82H/87H 83H/88H 84H/89H/236H	205	54	55	83	15	4.5	129	M 8 x 17	M 25 x 1.5	M 16 x 1.5	— — 4 x M 32 x 1.5	— — 2 x Pg 21	240	M 10 x 20	51.5°/171.5°/291.5°	32 42
			94							— —	— —						



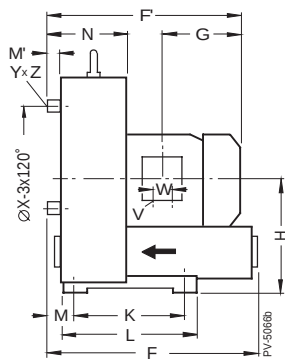
Type	Curve No.	A	B	C	C'	D	E	F	G	H	J	K	L	M
2BH1 64. - 7G.3. - 1G.4. - 1G.5.	90H 91H/94H 92H/95H	424	430	125 —	— 309	290	325	528 596	211 256	218	148 196	140	188	84 225
Type	Curve No.	N	O	Ø P	Q	Ø R	S	U	V	Ø X	Y x Z	X holes		
2BH1 64. - 7G.3. - 1G.4. - 1G.5.	90H 91H/94H 92H/95H	205	74 114	55	83	15	24.5	M 8 x 17	4 x M 32 x 1.5 2 x Pg 21	240	M 10 x 20	0°/120°/240°		

Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

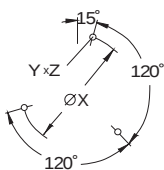
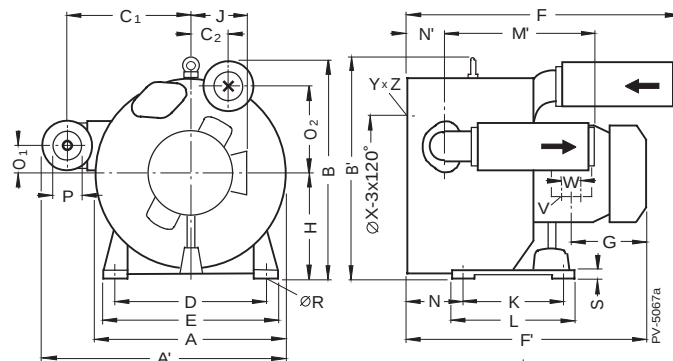
Dimensions for 2BH1 80., 2BH1 81., 2BH1 84. (mm)



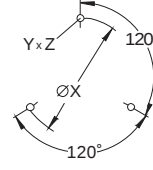
2BH1 80.



2BH1 81.



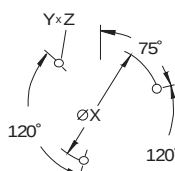
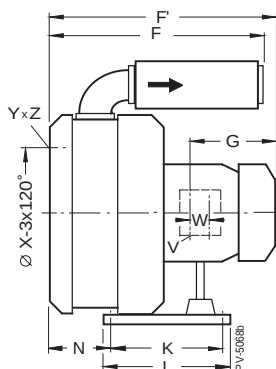
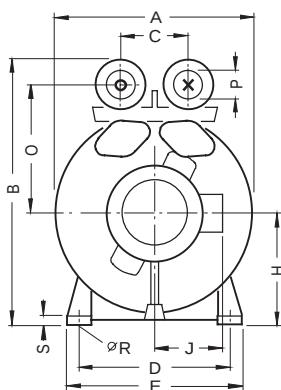
Hole pattern, cover



Hole pattern, cover

Type	Curve No.	A	A'	B	B'	C	C ₁	C ₂	D	E	F	F'	G	H	J	K	L
2BH1 80. - 1A.0. - 1A.1. - 1A.2.	39H/42H 40H/43H 41H/44H/208H	498	—	514	567	145	—	—	365	420	495	447.5 477	193 232.5	265	171 196	280	316
2BH1 81. - 1HE1. - 1H.2. - 1H.3. - 1H.4.	114H 96H/99H 97H/100H 98H/101H/238H	501	640.5	516	567	—	317.5	72.5	365	420	595.5	583	232.5	265	196	280	316
				563				91			720.5	654	287		234		
Type	Curve No.	M	M'	N	N'	O	O ₁	O ₂	Ø P	Ø R	S	V	W	Ø X	Y x Z	X holes	
2BH1 80. - 1A.0. - 1A.1. - 1A.2.	39H/42H 40H/43H 41H/44H/208H	35	10	170	—	81	—	—	G 2½	15	22	2 x Pg 21	42	408	M 12 x 20	15°/135°/255°	
2BH1 81. - 1HE1. - 1H.2. - 1H.3. - 1H.4.	114H 96H/99H 97H/100H 98H/101H/238H	—	402	140.5	104	—	66	184	G 2½	15	22	2 x Pg 21 2 x Pg 29	42 54	408	M 12 x 20	0°/120°/240°	

2BH1 84.



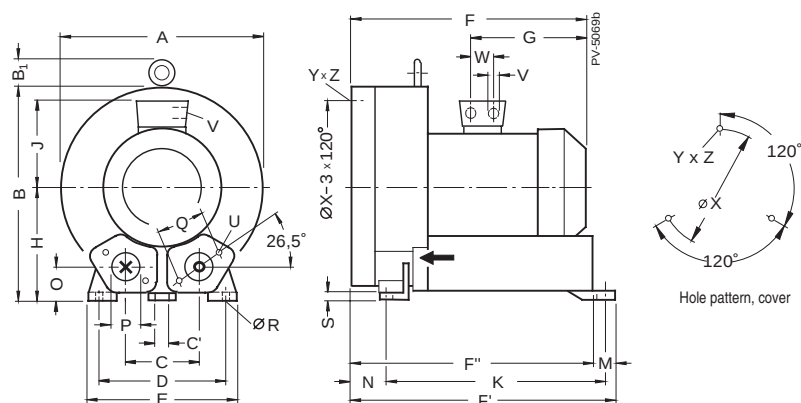
Hole pattern, cover

Type	Curve No.	A	B	C	D	E	F	F'	G	H	J	K
2BH1 84. - 1J.2. - 1J.3.	102H/104H 103H/105H	498	654.5	160	365	420	521	583 654	232.5 287	265	196 234	280
Type	Curve No.	L	N	O	Ø P	Ø R	S	V	W	Ø X	Y x Z	X holes
2BH1 84. - 1J.2. - 1J.3.	102H/104H 103H/105H	316	140.5	317.5	G 2½	15	22	2 x Pg 21 2 x Pg 29	42 54	408	M 12 x 20	75°/195°/315°

Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

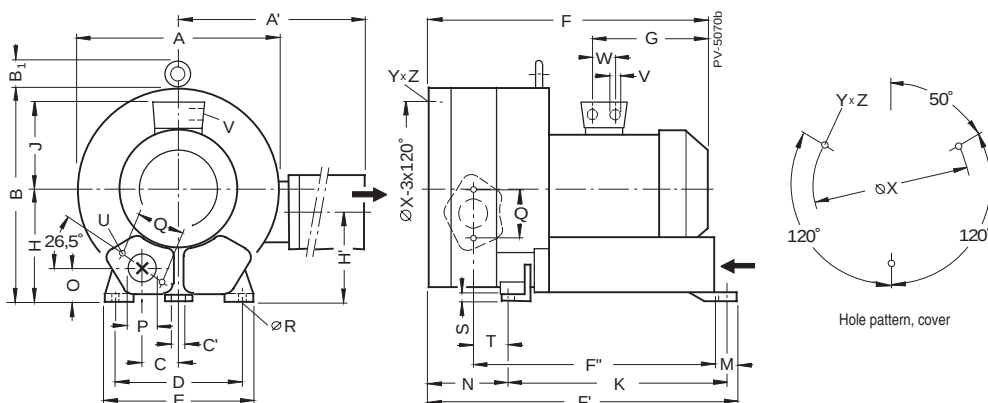
Dimensions for 2BH1 90., 2BH1 91. (mm)

2BH1 90.



Type	Curve No.	A	B	B1	C	C'	D	E	F	F'	F''	G	H	J	K	M
2BH1 90. - 1A.0. - 1A.1. - 1A.2.	48H/51H 49H/52H 50H/53H 210H	550	570	62	207	15	360	415	516 605	726	674	256 317	300	196 234	600	52
Type	Curve No.	N	O	Ø P	Q	Ø R	S	U	V	W	Ø X	Y x Z	X holes			
2BH1 90. - 1A.0. - 1A.1. - 1A.2.	48H/51H 49H/52H 50H/53H 210H	106	91	100	150	15	25	M 12 x 30	2 x Pg 21 2 x Pg 29	42 54	490	M 12 x 30	0°/120°/240°			

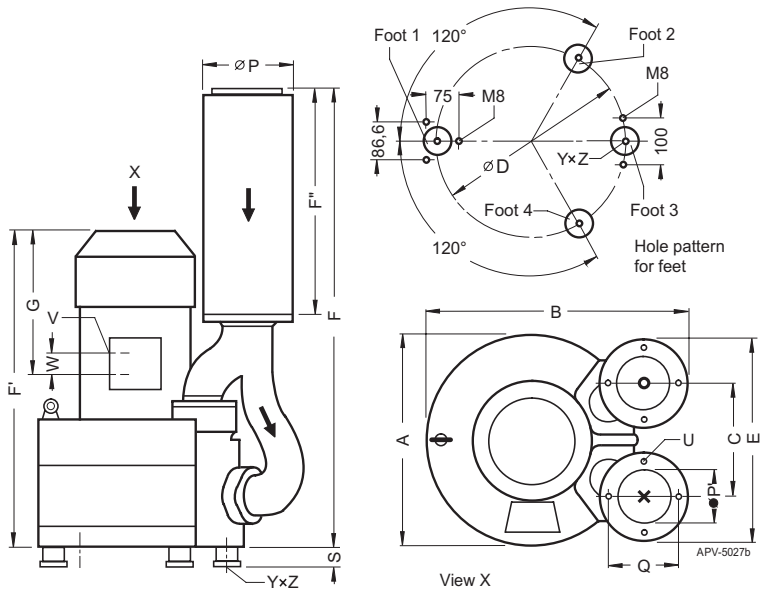
2BH1 91.



Type	Curve No.	A	A'	B	B1	C	C'	D	E	F	F'	F''	G	H	H'	J
2BH1 91. - 1H.1. - 1H.2. - 1H.3. - 1H.4.	116H/119H 117H/120H 118H/121H 239H	550	796	570	62	104	15	360	415	740 785	860	661	317 345	300	245	234
Type	Curve No.	K	M	N	O	Ø P	Q	Ø R	S	T	U	V	W	Ø X	Y x Z	X holes
2BH1 91. - 1H.1. - 1H.2. - 1H.3. - 1H.4.	116H/119H 117H/120H 118H/121H 239H	600	52	240	91	100	150	15	25	93	M 12 x 30	2 x Pg 29	54	490	M 12 x 30	50°/170°/290°

Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

Dimensions for 2BH1 943 (mm)



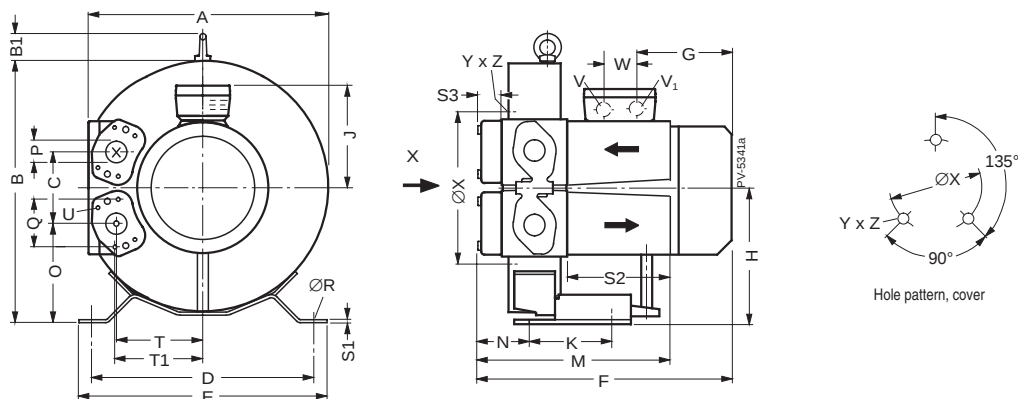
2BH1 943 (only cover mounting possible)
 Dimensions for fixing elements 2BX2 124, see page 31
 (not included in the scope of delivery of the pump/compressor).

Type	Curve No.	A	B	C	D	E	F	F'	F''	G
2BH1 943 - 1G.2.	122H/125H	554	704	307	490	560	1203	740	600	317
- 1G.3.	123H/126H							740		317
- 1G.4.	124H/127H							785		365
Type	Curve No.	P	P'	Q	S	U	V	W	Y x Z	
2BH1 943 - 1G.2.	122H/125H	250	130	210	40	M 16 x 30	2 x Pg 29	54	M 12 x 30	
- 1G.3.	123H/126H									
- 1G.4.	124H/127H									

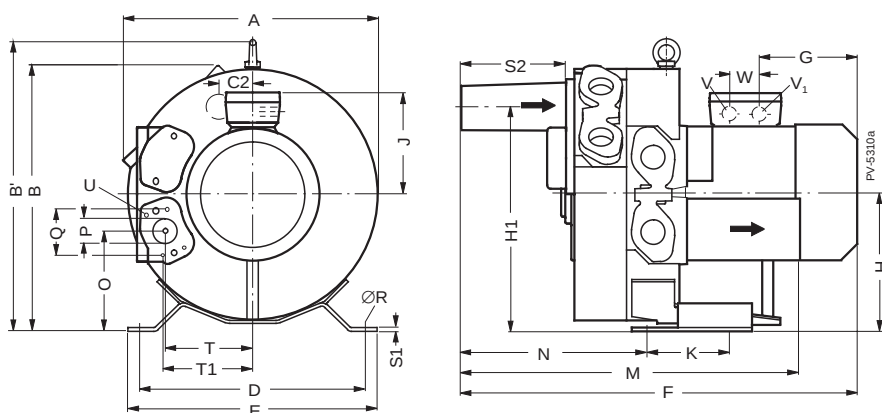
Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH7

Dimensions for 2BH7 2., 2BH7 3., 2BH7 4., 2BH7 5., 2BH7 6. (mm)

2BH7 21., 2BH7 31., 2BH7 41., 2BH7 51., 2BH7 61.



2BH7 22., 2BH7 32., 2BH7 42., 2BH7 52., 2BH7 62.

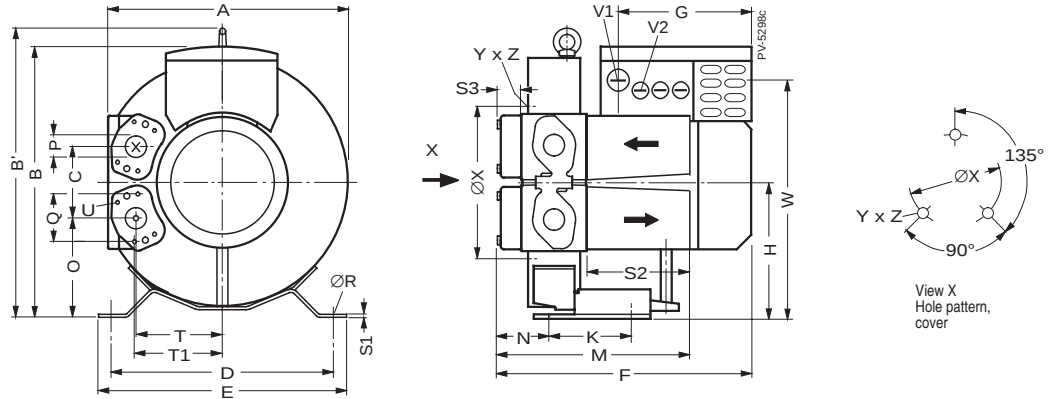


Type	Curve No.	A	B	B'	B1	C	C2	D	E	F	G	H	H1	J	K	M	N
2BH7 210 - 0AC1.	1G/2G/3G/4G	294	319	—	39	87	—	260	298	293	129	167	—	111	105	252	65
2BH7 310 - 0AC1.	30G/31G	313	339	—	39	94	—	290	325	295	129	177	—	120	105	256	67
2BH7 410 - 0AC1.	32G/33G																
2BH7 410 - 0AC1.	60G/61G/62G/63G	346	375	—	38	103	—	315	350	321	153	195	—	120	130	260	66
2BH7 510 - 0AC1.	90G/91G	368	395	—	39	114	—	328	363	361	185	205	—	128	152	265	68
2BH7 510 - 0AC2.	92G/93G																
2BH7 610 - 0AC1.	120G/121G	418	455	—	39	127	—	371	406	364	185	235	—	128	152	271	72
2BH7 610 - 0AC3.	122G/123G									390	211					271	
2BH7 220 - 0AC2.	5G/6G	313	326	359	—	—	43	260	298	469	130	167	272	111	105	426	241
2BH7 220 - 0AC5.	7G/8G									525	185			128			
2BH7 320 - 0AC4.	34G/35G	331	345	380	—	—	47	290	325	495	153	177	291	120	105	431	243
2BH7 320 - 0AC5.	36G/37G									527	185			128			
2BH7 420 - 0AC2.	64G/65G	363	377	414	—	—	52	315	350	529	180	195	319	128	130	436	243
2BH7 420 - 0AC5.	66G/67G									554	211						
2BH7 520 - 0AC2.	94G/95G	387	402	435	—	—	57	328	363	549	185	206	343	128	152	453	256
2BH7 520 - 0AC7.	96G/97G									603	211			148			
2BH7 620 - 0AC3.	124G/125G	442	457	495	—	—	63	372	406	578	211	236	389	128	152	458	259
2BH7 620 - 0AC5.	126G/127G									643	248			148			
Type	Curve No.	O	P	Q	R	S1	S2	S3	T	T1	U	V	V ₁	W	X	Y x Z	
2BH7 210 - 0AC1.	1G/2G/3G/4G	124	G 1 1/4	64	14	4	140	31	105	107	M 6 x 17	M 25 x 1.5	M 16 x 1.5	32	153	M 6 x 15	
2BH7 310 - 0AC1.	30G/31G	130	(18 deep)						114	116							
2BH7 310 - 0AC2.	32G/33G																
2BH7 410 - 0AC1.	60G/61G/62G/63G	143							125	127					167		
2BH7 510 - 0AC1.	90G/91G	148				5			137	138					192	M 8 x 15	
2BH7 510 - 0AC2.	92G/93G																
2BH7 610 - 0AC1.	120G/121G	172							153	155					228		
2BH7 610 - 0AC3.	122G/123G																
2BH7 220 - 0AC2.	5G/6G	123	G 1 1/4	63.8	14	4	140		105	107	M 6 x 17	M 25 x 1.5	M 16 x 1.5	32	—	—	
2BH7 220 - 0AC5.	7G/8G		(18 deep)												—	—	
2BH7 320 - 0AC4.	34G/35G	130							114	116					—	—	
2BH7 320 - 0AC5.	36G/37G														—	—	
2BH7 420 - 0AC2.	64G/65G	143							125	127					—	—	
2BH7 420 - 0AC5.	66G/67G														—	—	
2BH7 520 - 0AC2.	94G/95G	148				5			137	138					—	—	
2BH7 520 - 0AC7.	96G/97G														—	—	
2BH7 620 - 0AC3.	124G/125G	173							153	155			2 x M 32 x 1.5		42	—	
2BH7 620 - 0AC5.	126G/127G												M 25 x 1.5	M 16 x 1.5	32	—	
													2 x M 32 x 1.5		42	—	

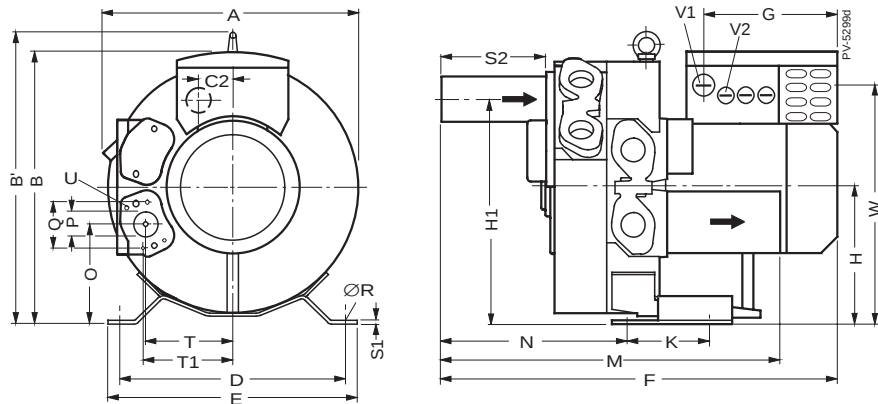
Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH7 with Integrated Frequency Converter

Dimensions for 2BH7 2., 2BH7 3., 2BH7 4., 2BH7 5., 2BH7 6. (mm)

2BH7 31., 2BH7 41., 2BH7 51., 2BH7 61.



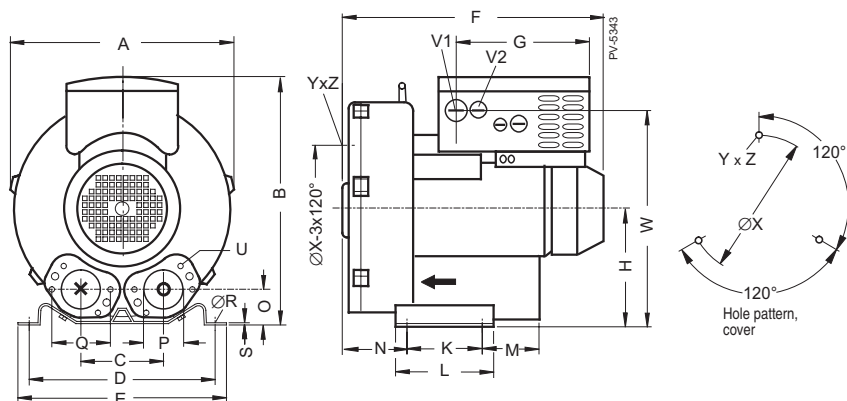
2BH7 22., 2BH7 32., 2BH7 42., 2BH7 52., 2BH7 62.



Type	Curve No.	A	B	B'	C	C2	D	E	F	G	H	H1	K	M	N	O	P
2BH7 310 - 0AS52- 2BH7 310 - 0AS62- 2BH7 410 - 0AS32- 2BH7 410 - 0AS52- 2BH7 510 - 0AS42- 2BH7 510 - 0AS62- 2BH7 610 - 0AS32- 2BH7 610 - 0AS52-	520G 522G 540G 542G 560G 562G 580G 582G	313 346 368 418	412 429 440 470 484	379 414 434 494	94 103 115 127	— — — —	290 315 328 372	325 350 363 406	376 378 378 387 428 390 455	213 213 213 213	177 195 205 235	— — — —	105 130 152 152	256 260 265 271	67 66 68 72	130 143 148 172	G 1¼ (18 deep)
2BH7 220 - 0AS52- 2BH7 220 - 0AS62- 2BH7 320 - 0AS52- 2BH7 320 - 0AS82- 2BH7 420 - 0AS32- 2BH7 420 - 0AS72- 2BH7 520 - 0AS42- 2BH7 520 - 0AS82- 2BH7 620 - 0AS42- 2BH7 620 - 0AS52-	504G 506G 524G 526G 544G 546G 564G 566G 584G 586G	313 331 363 387 442	400 412 430 430 440 454 484	359 379 414 414 435 435 495	— — — — —	43 47 52 57 63	260 290 315 328 372	298 325 350 363 406	550 552 552 554 596 575 640 605 643	213 213 213 213 213	167 177 195 206 236	272 291 319 343 389	105 105 130 152 152 459	426 431 436 453 459	241 243 243 256 259	123 130 143 148 173	G 1¼ (18 deep)
Type	Curve No.	Q	R	S1	S2	S3	T	T1	U		V1	V2	W	X	Y x Z		
2BH7 310 - 0AS52- 2BH7 310 - 0AS62- 2BH7 410 - 0AS32- 2BH7 410 - 0AS52- 2BH7 510 - 0AS42- 2BH7 510 - 0AS62- 2BH7 610 - 0AS32- 2BH7 610 - 0AS52-	520G 522G 540G 542G 560G 562G 580G 582G	63.8 63.8 63.8 63.8	14 14 14 14	4 4 5 5	140 140 140 140	31 31 31 31	114 125 137 153	116 127 138 155	M 6 x 17 M 6 x 17 M 6 x 17 M 6 x 17		Pg 21 Pg 21 Pg 21 Pg 21	Pg 16 Pg 16 Pg 16 Pg 16	362 379 390 420 434	153 167 192 228	M 6 x 15 M 6 x 15 M 8 x 15 M 8 x 15		
2BH7 220 - 0AS52- 2BH7 220 - 0AS62- 2BH7 320 - 0AS52- 2BH7 320 - 0AS82- 2BH7 420 - 0AS32- 2BH7 420 - 0AS72- 2BH7 520 - 0AS42- 2BH7 520 - 0AS82- 2BH7 620 - 0AS42- 2BH7 620 - 0AS52-	504G 506G 524G 526G 544G 546G 564G 566G 584G 586G	63.8 63.8 63.8 63.8 63.8	14 14 14 14 14	4 4 4 5 5	140 140 140 140 140	— — — — —	105 114 125 137 153	107 116 127 138 155	M 6 x 17 M 6 x 17 M 6 x 17 M 6 x 17 M 6 x 17		Pg 21 Pg 21 Pg 21 Pg 21 Pg 21	Pg 16 Pg 16 Pg 16 Pg 16 Pg 16	350 362 380 380 390 404 434	— — — — —	— — — — —		

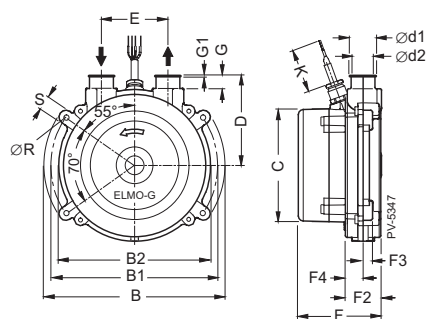
Dimensions for ELMO-G Vacuum Pumps and Compressors, Range 2BH1 with Integrated Frequency Converter and for 2BH100

Dimensions for 2BH14/15/16. - .S. . (mm)



Type	A	B	C	D	E	F	G	H	K	L	M	N	O	P	Q	Ø R	S
2BH1 400-7AS42	285	386	115	225	255	368	213	154	95	130	70	75	46	G 1 1/4 (14 deep)	72	12	3
2BH1 500-7AS32 2BH1 500-7AS62	334	408	120	260	295	389	213	176	115	155	98	88	48	55	83	14	4
2BH1 600-7AS62 2BH1 600-7AS72	381	430	125	290	325	420 444	213	198	140	180	80	112	54	55	83	15	4.5
Type	U	V 1	V 2	W	Ø X	Y x Z											
2BH1 400-7AS42	M 6 x 17 deep	PG21	PG16	336	174	M 6 x 15 deep (3 x)											
2BH1 500-7AS32 2BH1 500-7AS62	M 8 x 17 deep			358	200	M 8 x 20 deep (3 x)											
2BH1 600-7AS62 2BH1 600-7AS72				380 383	240	M 10 x 20 deep (3 x)											

Dimensions for 2BH100. - . . . (mm)

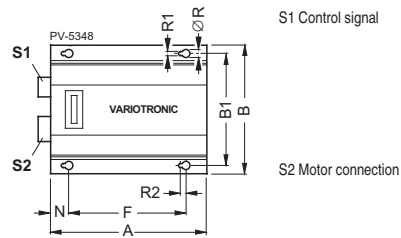


Type	B	B 1	B 2	C	D	Ø d1	Ø d2	E	F	F 2	F 3	F 4	G	G 1	K	Ø R	S
2BH1 000-0AA42 2BH1 000-0AB32	145	133	121	90	72	20	19	53	66	28.3	7.5	14.2	11	1	450	4.2	11

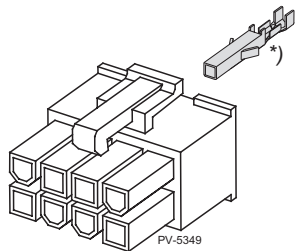
Dimensional drawings are also available on request as .dxf files.

Accessories for ELMO-G Vacuum Pumps and Compressors, Range 2BH1

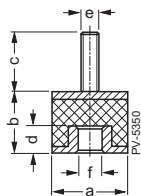
Dimensions Accessories for 2BH100 (mm)



External electronics (Variotronic)
2BX4 130 / B30



Set of plugs
2BX4 131 / B30



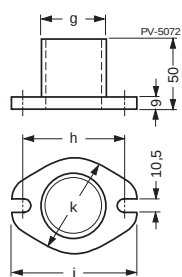
Rubber buffer
2BX4 132 / B31

Order No. / Abbreviation								
2BX4 130 / B30	A	B	B 1	F	N	Ø R	R 1	R 2
	112	92	80	84	13	6.5	3	5.5
2BX4 132 / B31	a	b	c	d	e	f		
	Ø 10	10	10	4	M 4	M 4		

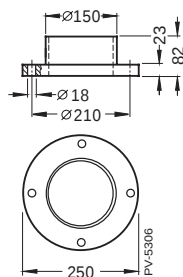
*) 2BX4 131: Pliers not included in delivery.

Accessories for ELMO-G Vacuum Pumps and Compressors, Range 2BH1 and 2BH7

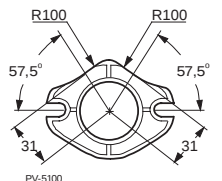
Dimensions (mm)



Hose flange
2BX1 03.



Hose flange
2BX1 046



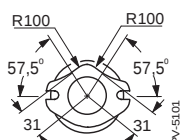
Hose flange
2BX1 034
all other dimensions as for 2BX1 033



2BX1 03/056

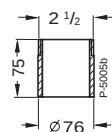


2BX1 057

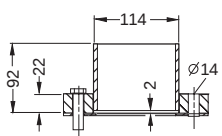


2BX1 045
all other dimensions as for 2BX1 030

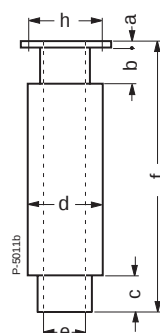
To be screwed directly into the
inner thread of the silencer



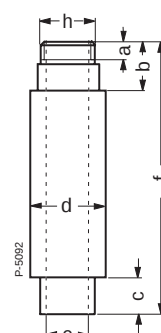
Hose flange
2BX1 047



Hose flange
2BX1 048



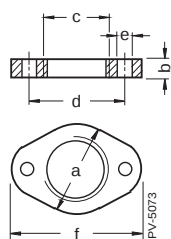
Additional silencer
2BX1 03/045/056/057



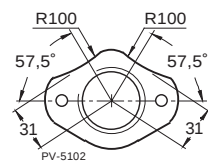
Additional silencer
2BX1 055

Type	g	h	i	k
2BX1 032	40	64.5	85	60
2BX1 033	50	75.5	100	72
2BX1 034	50	75.5	100	72
2BX1 036	60	83	100	74

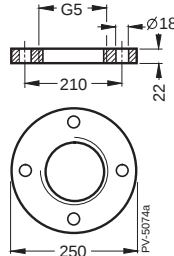
Type	a	b	c	d	e	f	h
2BX1 030	9	45	40	80	50	293	75.5
2BX1 031	9	45	40	75	40	293	64.5
2BX1 045	9	45	40	80	50	293	75.5
2BX1 055	30	95	56	127	80	651	G 2 1/2
2BX1 056	22	70	60	167	115	652	150
2BX1 057	22	65	60	209	150	647	210



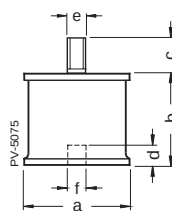
Threaded flange
2BX1 037 to 2BX1 042



Threaded flange
2BX1 040
all other dimensions as for 2BX1 038



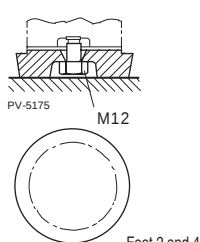
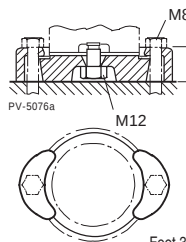
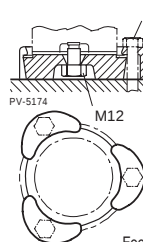
Threaded flange
2BX1 043



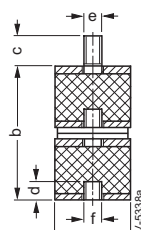
Feet for end-casing
mounting
2BX2 12.

Type	a	b	c	d	e	f
2BX1 037	56	14	G 1 1/4	64	9.5	80
2BX1 038	72	14	G 1 1/2	75	9.5	100
2BX1 040	72	14	G 1 1/2	75	9.5	100
2BX1 041	80	16	G 2	83	12	112
2BX1 042	140	22	G 4	150	14	190

Type	a	b	c	d	e	f
2BX2 120	25	20	10	6	M 6	M 6
2BX2 121	30	20	13	8	M 8	M 8
2BX2 122	50	30	15	10	M 10	M 10
2BX2 123	75	40	18	10.5	M 12	M 12
2BX2 127	35	45	11	8	M 6	M 6
2BX2 128	35	45	11	8	M 8	M 8
2BX2 135	25	44	10	6	M 6	M 6



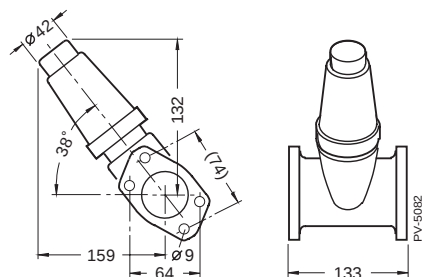
Fixing clamps for 2BH1 943 (1 set = 4 feet)
2BX2 124



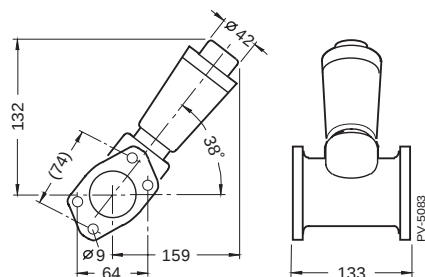
Rubber buffer
2BX2 135

Accessories for ELMO-G Vacuum Pumps and Compressors, Range 2BH1 and 2BH7

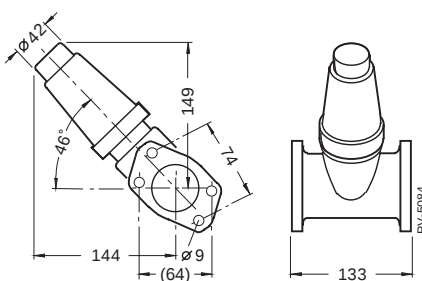
Dimensions (mm)



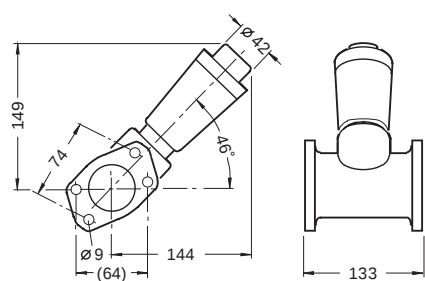
For 2BH1 3:
Vacuum-relief valve, suction-side
2BX2 141
2BX2 142



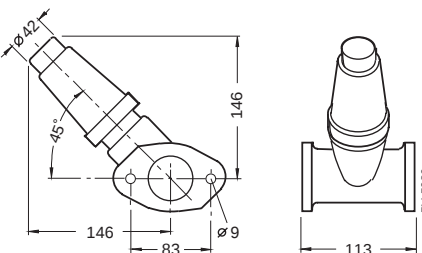
For 2BH1 3:
Pressure-relief valve, discharge-side
2BX2 143
2BX2 144



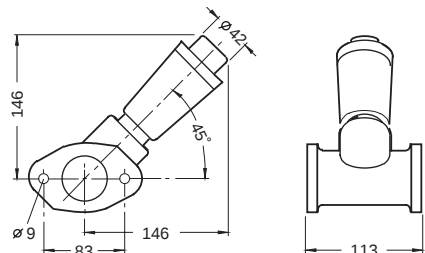
For 2BH1 4:
Vacuum-relief valve, suction-side
2BX2 141
2BX2 142



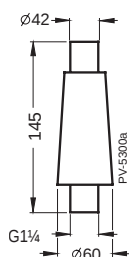
For 2BH1 4:
Pressure-relief valve, discharge-side
2BX2 143
2BX2 144



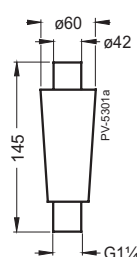
For 2BH1 5/2BH1 6:
Vacuum-relief valve, suction-side
2BX2 145
2BX2 146



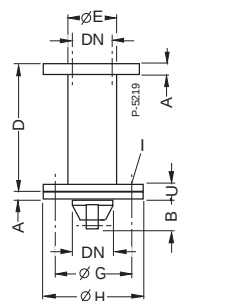
For 2BH1 5/2BH1 6:
Pressure-relief valve, discharge-side
2BX2 147
2BX2 148



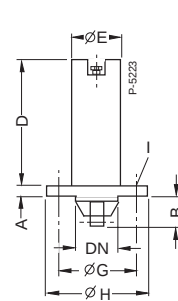
Loose vacuum-relief valve
2BX2 110
2BX2 114



Loose pressure-relief valve
2BX2 111
2BX2 115



Loose vacuum-relief valve
2BX2 150
2BX2 152
2BX2 154



Loose pressure-relief valve
2BX2 151
2BX2 153
2BX2 155

Type	DN	A	B	D	E	G	H	I	U
2BX2 150	80	19	41	220	89	160	200	8 x Ø 18	41
2BX2 152	125	22	70	370	133	210	250	8 x Ø 23	46
2BX2 154	200	22	124	570	206	295	340	8 x Ø 23	48
2BX2 151	80	19	41	220	90	160	200	8 x Ø 18	—
2BX2 153	125	22	70	370	137	210	250	8 x Ø 23	—
2BX2 155	200	22	124	570	206	295	340	8 x Ø 23	—

ELMO-L Vacuum Pumps

The complete system with patented discharge-air cooling

ELMO-L vacuum pumps are compact, ready-to-connect systems: connect the power supply, fill the water tank and install the suction line – finished. No need for a foundation.

ELMO-L pumps are 100% oil-free. Throughout the entire working range the casing temperature is max. 15 °C above room temperature. The discharge air leaves the pump at room temperature or lower – clean and dust-free.

Reliable in continuous duty

Insensitive to condensate from the air being handled and unaffected by water vapour. Problem-free continuous duty at end vacuum (closed suction gate valve) is guaranteed: the pump remains cold, power consumption is reduced to a minimum.

At 50 Hz the sound-pressure level is between 63 and 72 dB (A), depending on size.

Sound-absorbing covers and discharge-air silencers are therefore not needed.

The complete vacuum system is a low-maintenance system. Thanks to contact-free compression, it is wear-free in operation – i.e. no periodic maintenance, lubrication or replacement of wearing parts.

No need for additional energy: patented ELMO discharge-air cooling

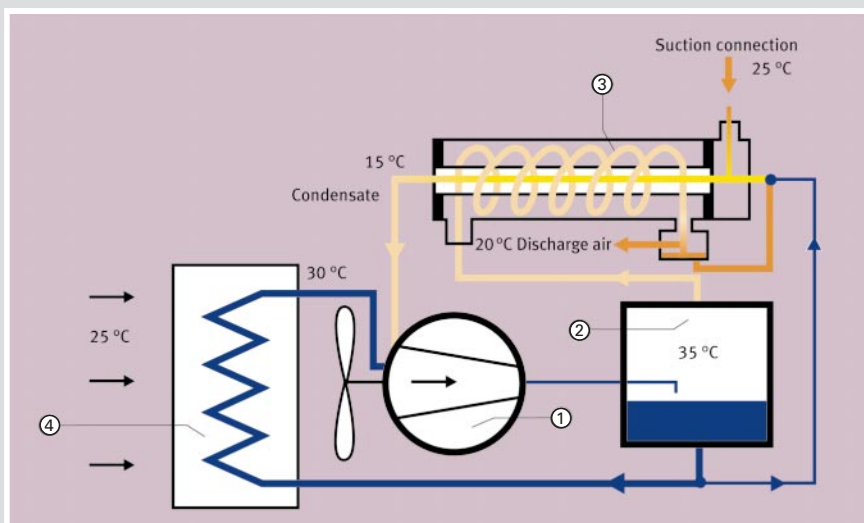
Discharge-air cooling in ELMO-L vacuum pumps is by means of a special, patented process – with no need for additional outside energy. Unlike conventional closed-circuit systems with liquid-ring vacuum pumps (1), the ELMO-L system uses a special discharge-air cooler (3) to cool the water-vapour-saturated, hot discharge-air downstream of the water separator (2). The temperature falls below room temperature. Water vapour condenses out of the discharge air as a result of cooling. This condensate is returned to the operating liquid. This means that ELMO-L vacuum pumps can be operated without the continuous supply of make-up water. A further advantage over conventional systems is, that there are no problems with materials as a result of corrosive pollutants, because there is no build-up of dissolved constituents in the operating liquid as a consequence of the escape of water vapour on the discharge side.



ELMO-L vacuum pump, compact version – ready to connect, easy fit, highly integrated.



ELMO-L vacuum pump 2BL1 500 – more power and flexibility, for decentralised mounting.



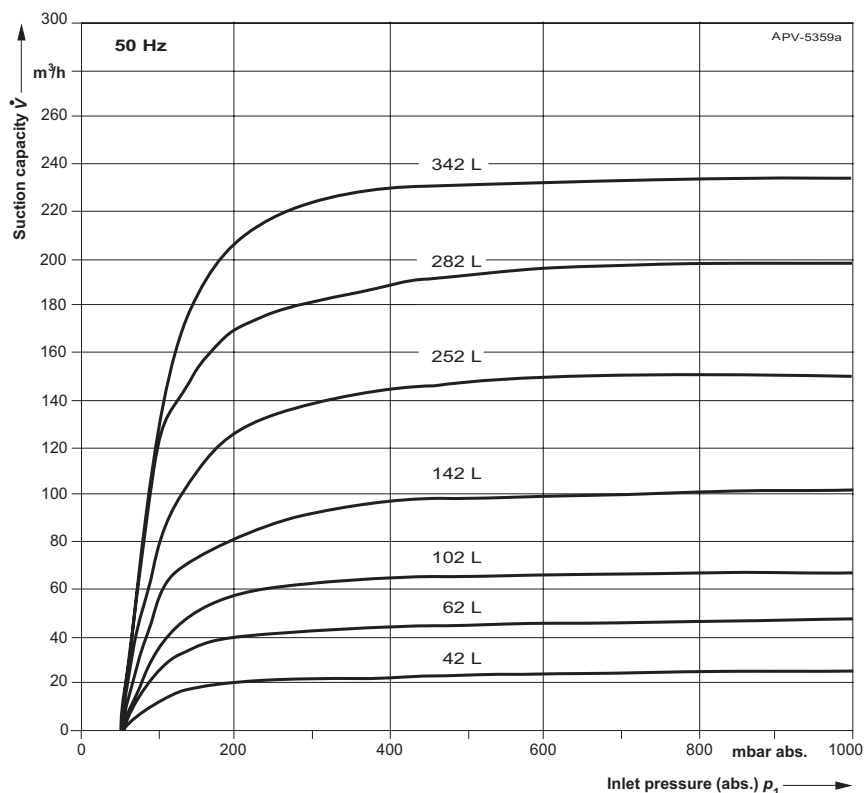
- **Plastics industry:**
degassing, vacuum forming
- **Beverage industry:**
bottles-filling machines,
water degassing
- **Hospitals:**
central vacuum installations,
sterilisers
- **Ceramics industry**
- **Packaging machines**
- **Printing presses**
- **Lifting and holding:**
e.g. wood, glass, laminex
and veneer plywood

- ① *Liquid-ring vacuum pump*
- ② *Separator*
- ③ *Discharge-air cooler*
- ④ *Air-water cooler for operating liquid*

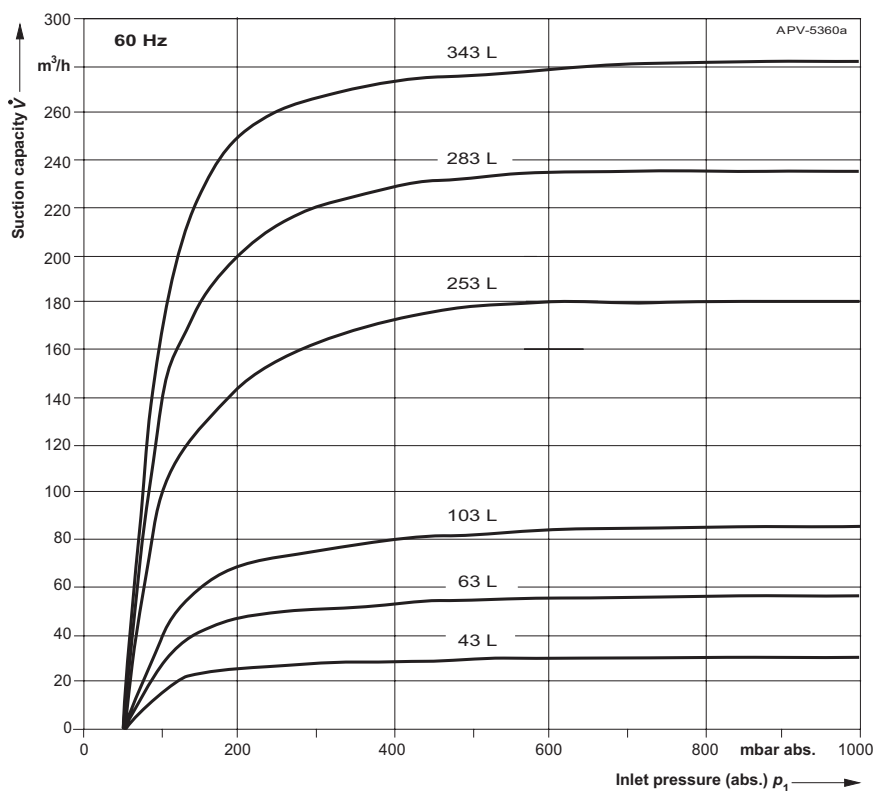
ELMO-L Compact Vacuum Pumps, Range 2BL, 50/60 Hz



Selection diagram 50 Hz



Selection diagram 60 Hz



The performance curves are valid for atmospheric air with 50% relative humidity, ambient temperature 20 °C and an ambient pressure of 1013 mbar with a tolerance of $\pm 10\%$. The lowest achievable inlet pressure is 50 mbar.

ELMO-L Compact Vacuum Pumps, Range 2BL, 50/60 Hz

Selection and ordering information

Curve	Motor			Sound-pressure level ²⁾	Order No.	Empty weight approx.
	Rated output	Rated voltage ¹⁾	Rated current			
No.	kW	V	A	dB(A)	Cast iron	kg
50 Hz, IP 55						
42L	0.81	1~ 230 V 230 Δ / 400 Y	6.9 3.6 Δ / 2.1 Y	63	2BL1 040-2N A 00-1 S ³⁾ 2BL1 040-2N C 00-1 S ³⁾	43
62L	1.45	1~ 230 V 230 Δ / 400 Y	10.2 6.4 Δ / 3.7 Y	66	2BL1 060-2N A 02-1 S ³⁾ 2BL1 060-2N C 02-1 S ³⁾	59
102L	2.35	230 Δ / 400 Y	10.4 Δ / 6.0 Y	68	2BL1 100-2N C 00-1 S ³⁾	70
142L	3.85	230 Δ / 400 Y	14.5 Δ / 8.4 Y	72	2BL1 140-2N C 03-1 S	94
252L	4.0	400 Δ / 690 Y	9.9 Δ / 5.7 Y	67	2BL1 250-2K C 00-6 S	180
282L	5.5	400 Δ / 690 Y	13.1 Δ / 7.6 Y	70	2BL1 280-2K C 00-6 S	185
342L	7.5	400 Δ / 690 Y	17.3 Δ / 10 Y	71	2BL1 340-2K C 00-6 S	270
60 Hz, IP 55						
43L	1.27	220 ... 275 Δ / 380 ... 480 Y	5.1 Δ / 2.35 Y	66	2BL1 041-2N H 01-8 S ³⁾	43
63L	2.0	220 ... 275 Δ / 380 ... 480 Y	7.8 Δ / 4.5 Y	67	2BL1 061-2N H 03-8 S ³⁾	59
103L	3.45	220 ... 275 Δ / 380 ... 480 Y	14.2 Δ / 8.2 Y	72	2BL1 101-2N H 01-8 S ³⁾	83
253L	6.2	460 Δ	11.3 Δ	71	2BL1 251-2K H 01-6 S	180
283L	8.2	460 Δ	14.3 Δ	73	2BL1 281-2K H 01-6 S	185
343L	11.4	460 Δ	21 Δ	76	2BL1 341-2K H 01-6 S	270
E Exe II T3, 50 Hz, IP 54						
24L	1	230 Δ / 400 Y	on request	63	2BL1 040-2N D 01-4	43
62L	1.75	230 Δ / 400 Y	6.3 Δ / 3.65 Y	66	2BL1 060-2N D 03-4	62
102L	2.8	230 Δ / 400 Y	9.5 Δ / 5.5 Y	68	2BL1 100-2N D 01-4	94

USA design pumps available on request

Accessories

	Brief information ⁴⁾	Weight approx.
		kg
Attached loose: - Intake filter - Vacuum control valve - Drainage tap	F50 F51 F55	0.5 ... 4.2 0.5 a. A.
Built-in: - Mechanical inflow control - Mechanical outflow control - Electrical level switch	F52 F53 F54	0.5 0.5 0.7
With stainless steel cladding	F56	0.5

4) A "Z" and a brief indication should be added to the order no. as follows: Example 2BL1 040-2NC00-1S-Z
F50 + F52.

Other voltages

2BL1 ...	...	...
50 Hz, 3~:	↑	↑
230 V Δ / 400 V Y	C	1
400 V Δ / 690 V Y	C	6
60 Hz, 3~:		
460 V Δ	H	6
220...275 V Δ / 380...480 V Y	H	8
200...245 V Δ / 345...440 V Y	H	0
Other voltages	...	9

■ Please give required voltage in plain text and then add N1 Y.

Ordering example:

2BL1 040-2NC00-9S

N1 Y

500 V Y, 50 Hz

Other materials

2BL1 ...	...	...
Standard version = cast iron	↑	
Version containing no non-ferrous metal *)	C	
Version containing no cast iron *)	R	
Stainless steel version *)	H	
Part-stainless steel version; IP 55	B	

*) Not available for 2BL1 04.

1) Permissible voltage range:

Rated voltage acc. to DIN IEC 38, Voltage tolerance ±10 %	Permitted voltage range acc. to DIN EN 60034 or DIN IEC 34-1, Voltage tolerance ±5 %	Fre- quency Hz
230 V Δ / 400 V Y 400 V Δ / 690 V Y	220...240 V Δ / 380...420 V Y 380...420 V Δ / 660...725 V Y	50
460 V Δ	440...480 V Y 220...275 V Δ / 380...480 V Y	60

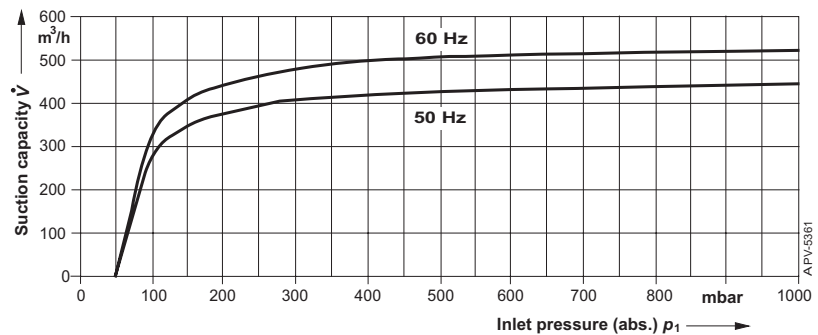
2) Measuring-surface sound-pressure level acc. to DIN EN 21 680 Part 1 / ISO 1680-1, measured at 1 m distance with a total pressure difference (vacuum) of 80 to 120 mbar and connected inlet pipe. Tolerance ±3 dB(A).

3) Also available as improved version for use with intake pressures less than 200 mbar.
The order no. then changes to: 2BL1 ...-0.
Can also be upgraded later to version 2BL1 ...-0.

ELMO-L Vacuum Pumps, Range 2BL1 500, 50/60 Hz



Selection diagram



Order information *

Motor characteristic data:

	2BL1 500-0KC00-6	2BL1 501-0KH02-6
Frequency [Hz]	50	50 / 60
Rated output [kW]	12	15 / 18
Rated voltage [V]	400 Δ / 690 Y	400 Δ / 690 Y; 50 Hz 460 Δ; 60 Hz
Degree of protection	IP 55	IP 55

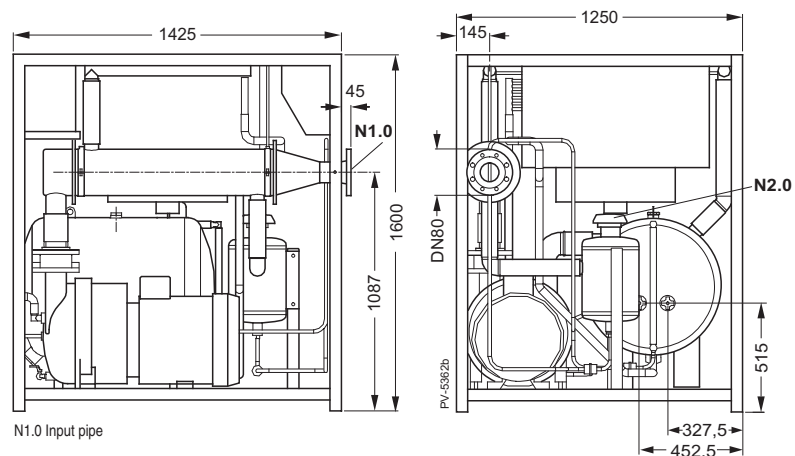
Materials **

Monoblock pump	GG20 coated / GG20 /	GG20 coated / GG20 /
Casing / port plate and cover / impeller	G-CuAl10Ni	G-CuAl10Ni
Condensation cooler	Stainless steel	Stainless steel
Separator	Galvanised steel	Galvanised steel
Pipework	PE, PVC	PE, PVC

* further types and voltages on request.

** other material versions on request.

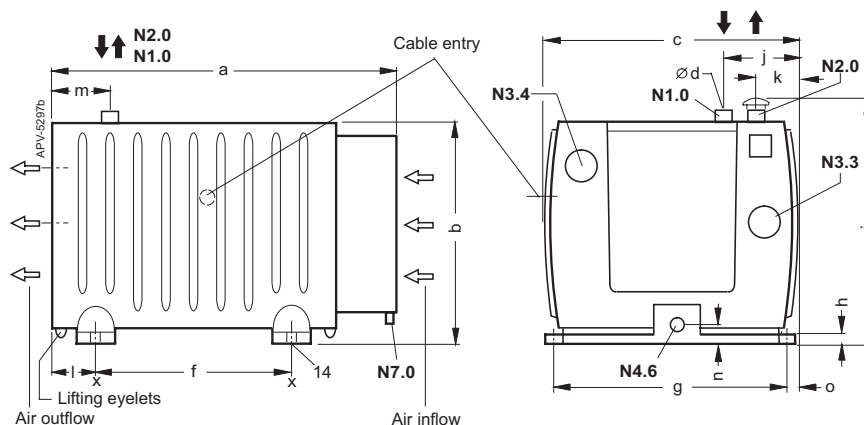
Dimensions (mm)



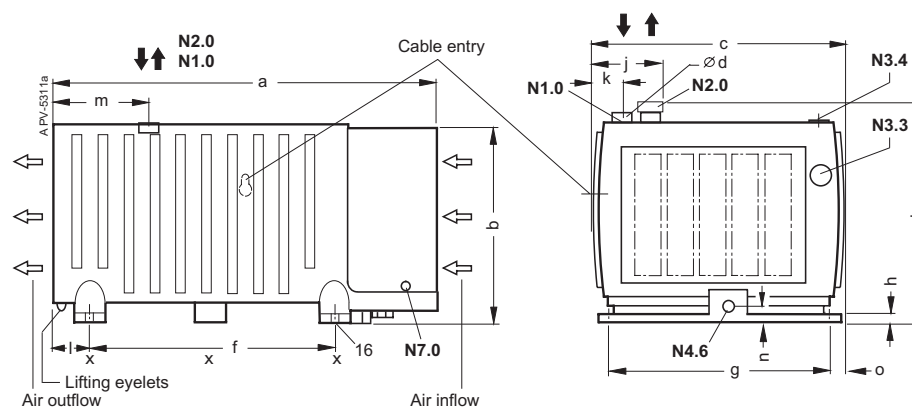
Accessories and Dimensions for ELMO-L Vacuum Pumps

Dimensions (mm)

2BL1 040 ... 2BL1 100



2BL1 101 ... 2BL1 341



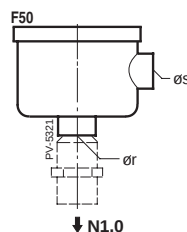
- N1.0 Suction connection
- N2.0 Discharge connection
- N3.3 Connection for in- and outflow controller
- N3.4 Filling
- N4.6 Total drain or sealant supply
- N7.0 Drain of heat exchanger, piping side
- x Bearing point

Type	a	b	c	d	g	h	i	j	k	l	m	n	o	N 1.0 Ø d)	N 3.3	N 3.4	N 4.6	N 7.0
2BL1 040 / 041	600	390	420	345	370	25	440	115	65	80	116	35	25	32	S 56 x 4	S 56 x 4	G ¾"	G 1/8"
2BL1 060 / 061	740	430	520	450	460	25	485	150	80	85	120	35	30	50	S 56 x 4	S 56 x 4	G ¾"	G 1/8"
2BL1 100	760	430	520	450	460	25	485	150	80	85	120	35	30	50	S 56 x 4	S 56 x 4	G ¾"	G 1/8"
2BL1 101 / 140	920	470	620	590	535	25	525	142	72	90	225	35	42.5	50	S 56 x 4	Rd 30 x ¼	G 1"	G 1/8"
2BL1 2. / 3.	1100	630	845	755	725	30	710	240	120	90	310	35	60	63	S 56 x 4	Rd 30 x ¼	G 1"	G 1/8"

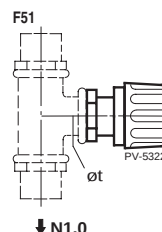
Accessories dimensions (mm)

For type	Brief information		
	F50 Ø r / s	F51 Ø t	F52 / F53 min. x
2BL1 040 / 041	R ¾"	G ¾"	135
2BL1 060 / 061	R 1 ¼"	G ¾"	135
2BL1 100	R 1 ¼"	G ¾"	135
2BL1 101 / 140	R 1 ¼"	G 1"	135
2BL1 2.	R 1 ¼"	G 1"	135
2BL1 3.	R 2"	G 1"	135

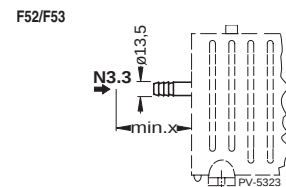
F55: Total drain valve on request



Suction filter



Vacuum relief valve

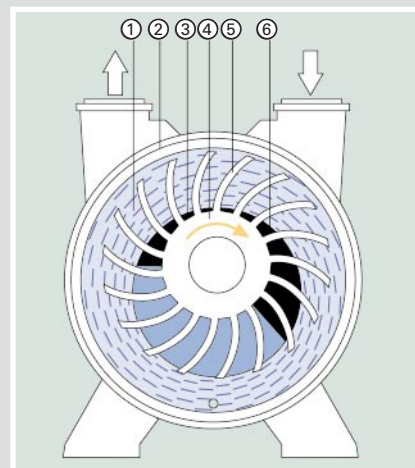


Inflow/outflow controller

ELMO-F Liquid-Ring Vacuum Pumps/Compressors

Robust technology for every application

We have been building liquid-ring vacuum pumps and compressors for almost 100 years and have acquired a unique level of know-how which we systematically build upon – with great success throughout the world.



Whether from our 2BV, 2BE or 2BG/2BK range, ELMO-F liquid-ring vacuum pumps and compressors are ideally equipped for use in wet processes. They are insensitive to thermal loading, condensate, dust, dirt particles and water slugs. They extract or compress even explosive gas mixtures safely and reliably. ELMO-F vacuum pumps and compressors are 100% oil-free in operation. The suction capacity is maximised by internal condensation of the steam in the suction flow, which means maximum performance when extracting steam-air mixtures.

Operating principle of a 2BE pump

- ① Operating liquid
- ② Casing
- ③ Discharge port
- ④ Impeller hub
- ⑤ Impeller
- ⑥ Suction port

Monoblock pumps:



ELMO-F vacuum pumps 2BV2/2BV5 (IP 54 degree of protection) – motor and pump form one structural unit – amazingly space-saving.



ELMO-F vacuum pumps 2BV3 (IP 54) – reliable monoblock pumps for low suction flows.



ELMO-F vacuum pumps 2BV7 (IP 55) – ultra-compact with the lowest water consumption.



ELMO-F vacuum pumps 2BV6 (IP 55, explosion protected) – with single or double mechanical seals and in stainless steel.



Simple and robust

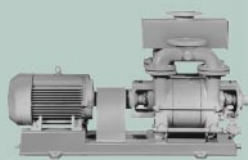
The principle is simple and robust: the impeller is the only moving part and rotates without making contact – that means without contact with the casing or with the port plates, which limit the end faces of the impeller. Sealing is provided by an operating liquid ring (1) which rotates together with the impeller (5) in the casing (2). At the topmost point, the liquid completely fills the impeller chamber; and, as the impeller rotates around, the liquid falls away from the hub (4). As the space between the operating liquid and the impeller hub increases, it is filled with gas, which is drawn in through the suction port (6) of the port plate.

At the discharge-side, the liquid ring moves back towards the hub and compresses the gas just like a piston, which is then discharged through the flexible discharge port (3) of the port plate.

Applications

- Mining
- Chemical, pharmaceutical and refinery plants
- Evacuation of condensers in steam-electric power plants
- Plastic industry
- Medical technology
- Food industry
- Paper industry
- Textile industry
- Environmental engineering
- Vacuum filtration for processing of ore
- Process engineering
- Sugar factories

Modular design :



ELMO-F vacuum unit 2BE1 – successfully used worldwide in moist processes.



ELMO-F 2BE3 – high performance for extraction and compression of steam-air mixtures.



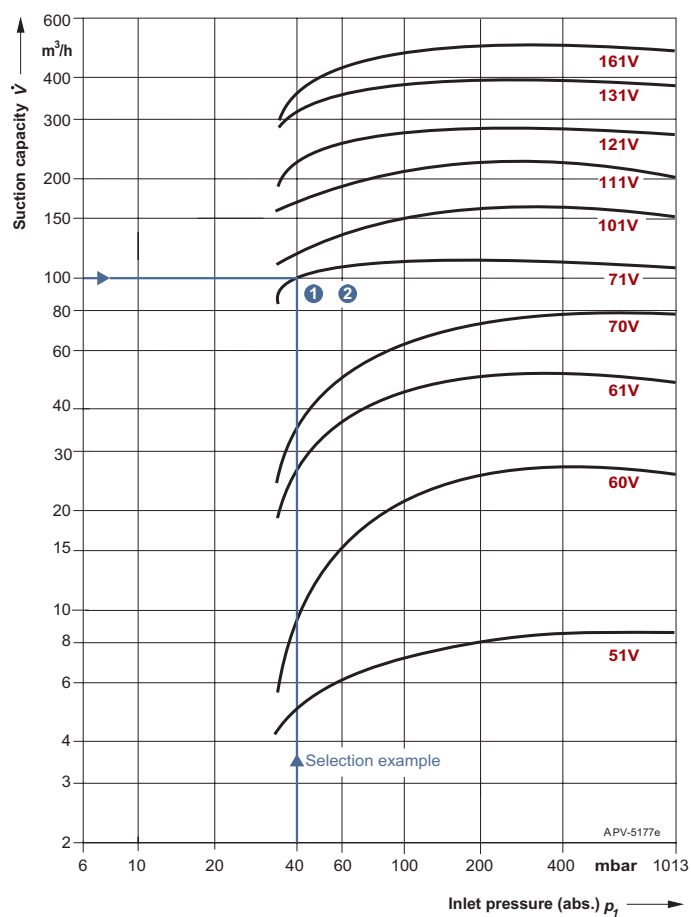
ELMO-F liquid-ring compressor 2BG, 10 sizes – up to 400 kW and 14 bar abs. pressure.

ELMO-F Liquid-Ring Vacuum Pumps, Range 2BV, 50 Hz



The performance curves are valid for pumping air with 100% relative humidity and 20 °C, compression to 1013 mbar, and water at 15 °C as the operating liquid.

Selection diagram 50 Hz



ELMO-F Liquid-Ring Vacuum Pumps, Range 2BV, 50 Hz

Selection and ordering information								
Curve No.	Materials ¹⁾ Casing/ port plate/ impeller	Motor			Operating fluid require- ment ³⁾ m³/h	Sound- pressure level ⁴⁾ dB(A)	Order No. • AVAILABLE EX STOCK	Weight approx. kg
		Rated output kW	Rated voltage ²⁾ V	Rated current A				
Monoblock design 50 Hz ⁵⁾								
51V	Bronze/CrNi steel/bronze	0.3	1 ~ 230	2.9	0.078	57	• 2BV3 051-0GA01-1E	8.5
60V	CrNi steel/bronze/cast iron	0.83	230 Δ / 400 Y	3.3 Δ / 1.9 Y	0.1	62	2BV7 060-1AE00-1S	16
61V	CrNi steel/bronze/cast iron ⁸⁾	1.2	1 ~ 230 230 Δ / 400 Y	10.3 8.8 Δ / 5.1 Y	0.12	65	2BV7 061-1AA00-1S 2BV7 061-1AC00-1S	22
70V	CrNi steel/bronze/cast iron	2.4	230 Δ / 400 Y	11.6 Δ / 6.7 Y	0.15	66	2BV7 070-1AE00-1S	31
71V	CrNi steel/bronze/cast iron	3.5	400 Δ / 690 Y	8.5 Δ / 4.9 Y	0.22	70	2BV7 071-1AE00-6S	38
101V	CrNi steel/bronze/cast iron	4	400 Δ / 690 Y	9.9 Δ / 5.7 Y	0.45 / 0.25	68	2BV5 110-0KC00-6S	78
111V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	5.5	400 Δ / 690 Y	13.1 Δ / 7.6 Y	0.5 / 0.3	68	• 2BV5 111-0KC00-6P 2BV5 111-0HC00-6P	100
121V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	7.5	400 Δ / 690 Y	17.3 Δ / 10 Y	0.6 / 0.3	69	• 2BV5 121-0KC00-6P 2BV5 121-0HC00-6P	145
131V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	11	400 Δ / 690 Y	23 Δ / 13.4 Y	0.9 / 0.4	73	• 2BV5 131-0KC00-6P 2BV5 131-0HC00-6P	165
161V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	12	400 Δ / 690 Y	29 Δ / 16.8 Y	1.2 / 0.6	74	• 2BV5 161-0KC00-6P 2BV5 161-0HC00-6P	252
Monoblock design 50 Hz, motor in EEx e II T3 ⁶⁾								
60V 61V	Cast iron/ceramic/bronze Cast iron/ceramic/bronze	1.1 1.85	230 Δ / 400 Y	4.2 Δ / 2.4 Y 6.3 Δ / 3.65 Y	0.12	62 65	2BV2 060-0ND01-4S 2BV2 061-0ND03-4S	20 25
70V	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	2.5	230 Δ / 400 Y	8.6 Δ / 4.95 Y	0.15	66	2BV2 070-0ND01-4S 2BV2 070-0PD01-4S 2BV2 070-0HD01-4S	42
71V	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	4.6	230 Δ / 400 Y	15 Δ / 8.6 Y	0.25	72	2BV2 071-0ND04-4S 2BV2 071-0PD04-4S 2BV2 071-0HD04-4S	60
101V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	5	400 Δ / 690 Y	10.4 Δ / 6 Y	0.45 / 0.25	63	2BV5 110-0KD02-8S 2BV5 110-0HD02-8S	83
111V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	6.8	400 Δ / 690 Y	14 Δ / 8.1 Y	0.5 / 0.3	68	2BV5 111-0KD02-8P 2BV5 111-0HD02-8P	105
121V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	10	400 Δ / 690 Y	19.5 Δ / 11.4 Y	0.6 / 0.3	69	2BV5 121-0KD02-8P 2BV5 121-0HD02-8P	165
131V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	13.5	400 Δ / 690 Y	26 Δ / 15.1 Y	0.9 / 0.4	73	2BV5 131-0KD02-8P 2BV5 131-0HD02-8P	185
161V	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	13.2	400 Δ / 690 Y	28 Δ / 16 Y	1.2 / 0.6	74	2BV5 161-0KD02-8P 2BV5 161-0HD02-8P	260
Close-coupled design 50 Hz								
101V 111V 121V 131V 161V	CrNi steel/CrNi steel/CrNi steel	4 5.5 7.5 11 12	400 Δ / 690 Y	9.9 Δ / 5.7 Y 13.1 Δ / 7.6 Y 17.3 Δ / 10 Y 23 Δ / 13.4 Y 29 Δ / 16.8 Y	0.45 / 0.25 0.5 / 0.3 0.6 / 0.3 0.9 / 0.4 1.2 / 0.6	63 68 69 73 74	2BV6 110-0HC00-6S 2BV6 111-0HC00-6S 2BV6 121-0HC00-6S 2BV6 131-0HC00-6S 2BV6 161-0HC00-6S	107 142 165 246 342
Close-coupled design 50 Hz, motor in EEx e II T3 ⁶⁾								
101V 111V 121V 131V 161V	CrNi steel/CrNi steel/CrNi steel	5 6.8 10 13.5 13.2	400 Δ / 690 Y	10.3 Δ / 6 Y 13.8 Δ / 8 Y 18.6 Δ / 10.8 Y 25.7 Δ / 14.9 Y 27.6 Δ / 16 Y	0.45 / 0.25 0.5 / 0.3 0.6 / 0.3 0.9 / 0.4 1.2 / 0.6	63 68 69 73 74	2BV6 110-0HD02-8S 2BV6 111-0HD02-8S 2BV6 121-0HD02-8S 2BV6 131-0HD02-8S 2BV6 161-0HD02-8S	117 142 165 246 350
Close-coupled design 50 Hz, motor in EEx de II C								
101V 111V 121V 131V 161V	CrNi steel/CrNi steel/CrNi steel	5.5 7.5 11 15 15	400 Δ / 690 Y	11.1 Δ / 6.4 Y 14.8 Δ / 8.6 Y 20.9 Δ / 12.1 Y 28.5 Δ / 16.5 Y 29.5 Δ / 17.1 Y	0.45 / 0.25 0.5 / 0.3 0.6 / 0.3 0.9 / 0.4 1.2 / 0.6	63 68 69 73 74	2BV6 110-0HE02-6L 2BV6 111-0HE02-6L 2BV6 121-0HE02-6L 2BV6 131-0HE02-6L 2BV6 161-0HE02-6L	117 142 198 238 350

Selection example

Application:

e.g. sterilisation

① Required duty point at 50 Hz:

$V = 100 \text{ m}^3/\text{h}$

$p_1 = 40 \text{ mbar}$

② Choose the performance curve which lies closest to the duty point ①.

In this example, No. **71V**

③ Selection and order code (standard version):

No. **71V** $\Rightarrow$ Type 2BV7 071-1AE00-6S

2BV vacuum pumps are made as standard with single mechanical seals with internal supply.

For the 2BV6 range, the following alternatives are also available:

Order No.

2BV6 □

Single mechanical seals, **external** supply

↑

3

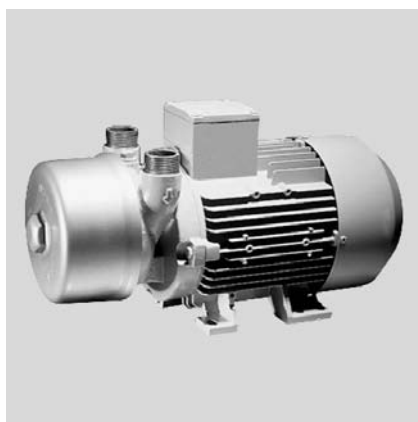
Double mechanical seals, **external** supply

5

For footnotes, see page 45.

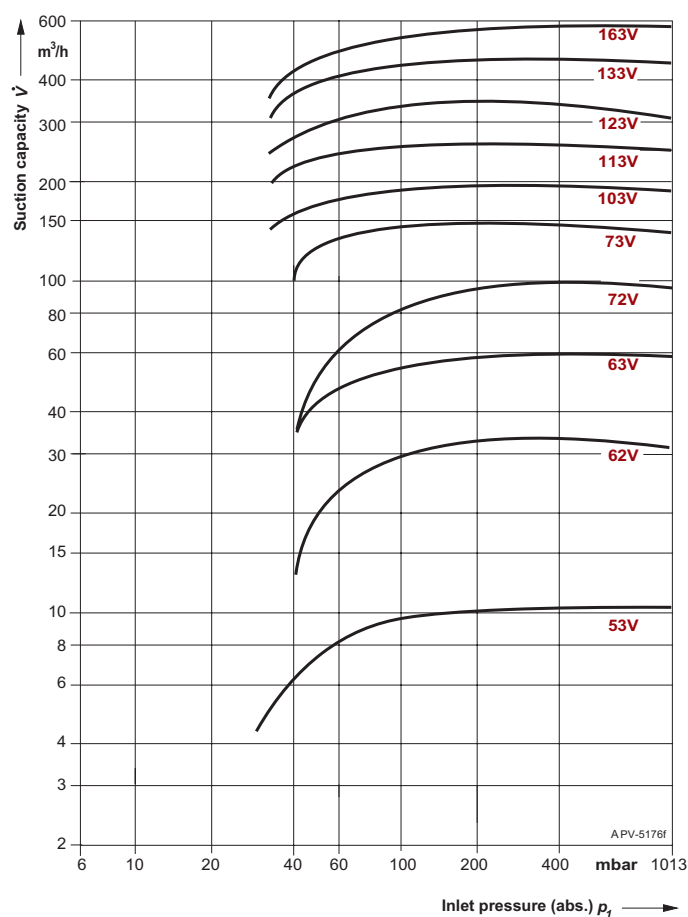
For dimensions, see pages 51 to 53.

ELMO-F Liquid-Ring Vacuum Pumps, Range 2BV, 50/60 Hz



The performance curves are valid for pumping air with 100% relative humidity and 20 °C, compression to 1013 mbar, and water at 15 °C as the operating liquid.

Selection diagram 60 Hz



ELMO-F Liquid-Ring Vacuum Pumps, Range 2BV, 50/60 Hz

Selection and ordering information									
Curve No.	Fre- quency	Service- factor ⁷⁾	Motor			Operating fluid require- ment ³⁾	Sound- pressure level ⁴⁾	Order No.	Weight approx.
			Rated output	Rated voltage ²⁾	Rated current				
	Hz	SF	kW	V	A	m³/h	dB(A)	• AVAILABLE EX STOCK	kg
Monoblock design 50/60 Hz (at 50 Hz also for more difficult operating conditions)									
51V	50	1.33	0.3	185...220 Δ / 320...380 Y	3.6 Δ / 2.1 Y	0.078	57	2BV3 051-0GH02-0E	8.5
53V	60	1.3	0.4	200...254 Δ / 345...440 Y	3.6 Δ / 2.1 Y	0.085	61		9.2
51V	50	1.33	0.3	200...240 Δ / 345...415 Y	3.8 Δ / 2.2 Y	0.078	57	2BV3 051-0GH02-8E	8.5
53V	60	1.3	0.4	220...275 Δ / 380...480 Y	3.8 Δ / 2.2 Y	0.085	61		9.2
51V	50	1.65	0.3	1 ~ 100 / 200	9.0 Δ / 4.5 Y	0.078	57	2BV3 051-0GV02-4E	8.5
53V	60	1.45	0.4	1 ~ 100 / 200	10.0 Δ / 5.0 Y	0.085	61		9.2
51V	50	1.33	0.3	1 ~ 115 / 230	9.0 Δ / 4.5 Y	0.078	57	2BV3 051-0GV02-5E	8.5
53V	60	1.3	0.4	1 ~ 115 / 230	10.0 Δ / 5.0 Y	0.085	61		9.2
60V	50	1.33	0.83	200...240 Δ / 345...415 Y	5.0 Δ / 2.9 Y	0.1 / 0.03	62	• 2BV7 060-2AH00-8S	17
62V	60	1.04	1.04	220...275 Δ / 380...480 Y	5.0 Δ / 2.9 Y	0.1 / 0.03	67		
60V	50	1.33	0.83	185...220 Δ / 320...380 Y	6.0 Δ / 3.4 Y	0.1 / 0.03	62	2BV7 060-2AH00-0S	17
62V	60	1.25	1.04	200...254 Δ / 345...440 Y	5.7 Δ / 3.3 Y	0.1 / 0.03	67		
61V	50	1.83	1.2	200...240 Δ / 345...415 Y	9.5 Δ / 5.5 Y	0.12 / 0.06	65	• 2BV7 061-1AH00-8S	22
63V	60	1.59	1.6	220...275 Δ / 380...480 Y	9.5 Δ / 5.5 Y	0.12 / 0.06	69		
61V	50	1.83	1.2	185...220 Δ / 320...380 Y	10.0 Δ / 5.8 Y	0.12 / 0.06	65	2BV7 061-1AH00-0S	22
63V	60	1.59	1.6	200...254 Δ / 345...440 Y	10.8 Δ / 6.2 Y	0.12 / 0.06	69		
70V	50	1.75	2.4	200...240 Δ / 345...415 Y	16.6 Δ / 9.6 Y	0.15 / 0.06	66	• 2BV7 070-2AH00-8S	31
72V	60	1.34	3.5	220...275 Δ / 380...480 Y	16.6 Δ / 9.6 Y	0.15 / 0.07	72		
70V	50	1.75	2.4	185...220 Δ / 320...380 Y	18.4 Δ / 10.6 Y	0.15 / 0.06	66	2BV7 070-2AH00-0S	31
72V	60	1.34	3.5	200...254 Δ / 345...440 Y	18.4 Δ / 10.6 Y	0.15 / 0.07	72		
71V	50	1.57	3.5	200...240 Δ / 345...415 Y	22.1 Δ / 12.8 Y	0.15 / 0.06	66	• 2BV7 071-2AH00-8S	31
73V	60	1.21	5.2	220...275 Δ / 380...480 Y	22.1 Δ / 12.8 Y	0.15 / 0.07	72		
71V	50	1.57	3.5	185...220 Δ / 320...380 Y	24.0 Δ / 14.0 Y	0.15 / 0.06	66	2BV7 071-2AH00-0S	31
73V	60	1.21	5.2	200...254 Δ / 345...440 Y	24.0 Δ / 14.0 Y	0.15 / 0.07	72		
101V	50	1.3	4	200...240 Δ / 345...415 Y	25.5 Δ / 14.7 Y	0.45 / 0.25	63	• 2BV5 110-0KH01-8S	83
103V	60	1	6.2	220...275 Δ / 380...480 Y	25.5 Δ / 14.7 Y	0.45 / 0.25	63	2BV5 110-0HH01-8S ¹⁾	83
								• 2BV5 110-0KH01-8S	
								2BV5 110-0HH01-8S ¹⁾	
111V	50	1.25	5.5	200...240 Δ / 345...415 Y	31 Δ / 17.8 Y	0.5 / 0.3	68	• 2BV5 111-0KH01-8P	105
113V	60	1	8.2	220...275 Δ / 380...480 Y	31 Δ / 17.8 Y	0.5 / 0.3	68	2BV5 111-0HH01-8P ¹⁾	105
								• 2BV5 111-0KH01-8P	
								2BV5 111-0HH01-8P ¹⁾	
121V	50	1.3	7.5	200...240 Δ / 345...415 Y	43 Δ / 25 Y	0.6 / 0.3	69	• 2BV5 121-0KH01-8P	165
123V	60	1	11.4	220...275 Δ / 380...480 Y	43 Δ / 25 Y	0.6 / 0.3	69	2BV5 121-0HH01-8P ¹⁾	165
								• 2BV5 121-0KH01-8P	
								2BV5 121-0HH01-8P ¹⁾	
131V	50	1.2	11	200...240 Δ / 345...415 Y	50 Δ / 29 Y	0.9 / 0.4	73	2BV5 131-0KH01-8P	185
133V	60	1	16.2	220...275 Δ / 380...480 Y	56 Δ / 32.5 Y	0.9 / 0.4	73	2BV5 131-0HH01-8P ¹⁾	185
								2BV5 131-0KH01-8P	
								2BV5 131-0HH01-8P ¹⁾	
161V	50	1.25	12	200...240 Δ / 345...415 Y	63.5 Δ / 36.5 Y	1.2 / 0.6	74	2BV5 161-0KH02-8P	260
163V	60	1	18	220...275 Δ / 380...480 Y	72 Δ / 41.5 Y	1.2 / 0.6	74	2BV5 161-0HH02-8P ¹⁾	260
								2BV5 161-0KH02-8P	
								2BV5 161-0HH02-8P ¹⁾	
Close-coupled design 50/60 Hz (at 50 Hz also for onerous operating conditions)									
101V	50		5.5	400 Δ / 690 Y ²⁾	11.4 Δ / 6.6 Y	0.45 / 0.25	63	2BV6 110-0HH02-6S ¹⁾	117
103V	60		6.3	460 Δ ²⁾	11.2 Δ	0.45 / 0.25	67		
111V	50		7.5	400 Δ / 690 Y ²⁾	15.4 Δ / 8.9 Y	0.5 / 0.3	68	2BV6 111-0HH02-6S ¹⁾	142
113V	60		8.6	460 Δ ²⁾	15 Δ	0.5 / 0.3	74		
121V	50		11	400 Δ / 690 Y ²⁾	21.1 Δ / 12.2 Y	0.6 / 0.3	69	2BV6 121-8HH02-6S ¹⁾	165
123V	60		12.6	460 Δ ²⁾	21 Δ	0.6 / 0.3	75		
131V	50		15	400 Δ / 690 Y ²⁾	28.5 Δ / 16.5 Y	0.9 / 0.4	73	2BV6 131-0HH02-6S ¹⁾	246
133V	60		17.3	460 Δ ²⁾	29 Δ	0.9 / 0.4	77		
161V	50		15	400 Δ / 690 Y ²⁾	30 Δ / 17.3 Y	1.2 / 0.6	74	2BV6 161-0HH02-6S ¹⁾	342
163V	60		18	460 Δ ²⁾	31 Δ	1.2 / 0.6	75		
Close-coupled design 60 Hz, motor to EEx de II C									
103V			8.6	460 Δ ²⁾	15 Δ	0.45 / 0.25	67	2BV6 110-0HR03-6L	129
113V			8.6	460 Δ ²⁾	15 Δ	0.5 / 0.3	74	2BV6 111-0HR02-6L	142
123V			12.6	460 Δ ²⁾	21 Δ	0.6 / 0.3	75	2BV6 121-0HR02-6L	238
133V			17.3	460 Δ ²⁾	29 Δ	0.9 / 0.4	77	2BV6 131-0HR02-6L	232
163V			18	460 Δ ²⁾	31 Δ	1.2 / 0.6	75	2BV6 161-0HR02-6L	362

50 Hz curves, see page 42

Materials

for	for pump	Pump part		
Casing/port plate/impeller	Type	Pump casing	Port plate	Impeller
Cast iron/ceramic/bronze	2BV2	GG 20	KER 221	G-CuAl 10 Ni
Bronze/CrNi steel/bronze	2BV3	G-Cu Al 10 Ni	X6CrNiTi 1810	G-CuAl 10 Ni
Cast iron/cast iron/bronze	2BV5	GG 20	GG 20	G-CuAl 10 Ni
CrNi steel/ceramic/CrNi steel	2BV2	G-X6CrNiMo 1810	KER 221	G-X6CrNiMo 1810
CrNi steel/CrNi steel/CrNi steel ¹⁾	2BV2 2BV5/6	G-X6CrNiMo 1810 G-X5CrNiMoNb 1810	G-X6CrNiMo 1810 G-X5CrNiMoNb 1810	G-X6CrNiMo 1810 G-X5CrNiMoNb 1810
CrNi steel/CrNi steel/bronze	2BV7	X5CrNi 1810 (Lantern: EN-GJL-200)	X6CrNiMoTi 17-12-2	G-CuAl 10 Ni

2) Permissible voltage range

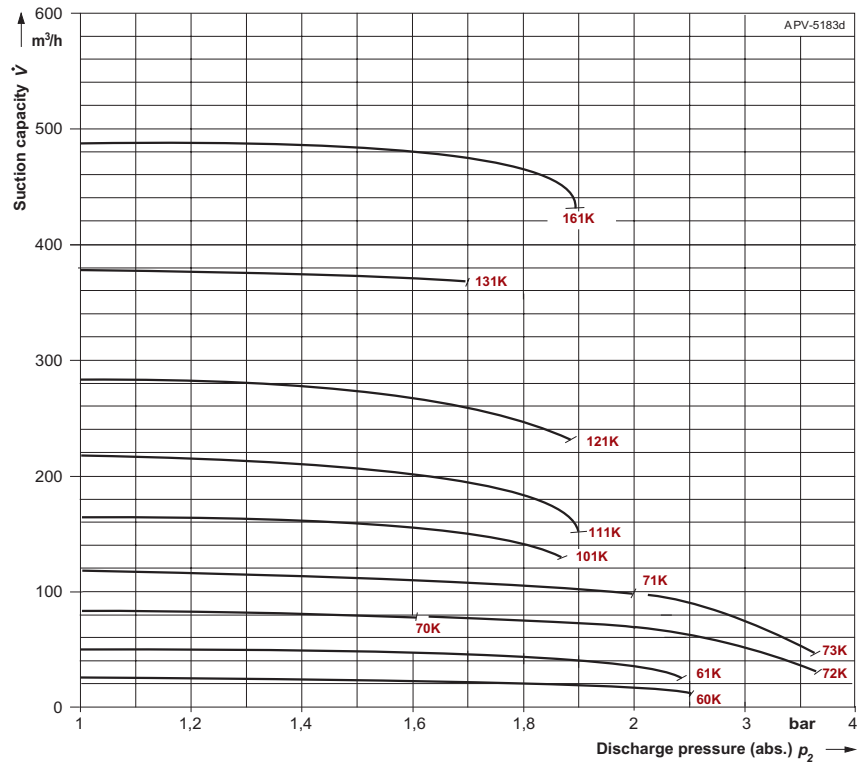
Rated voltage acc. to DIN IEC 38		Permissible voltage range acc. to DIN VDE 0530 or DIN IEC 34-1	
Voltage tolerance here ±10 %		Voltage tolerance here ±5 %	
50 Hz	60 Hz	50 Hz	60 Hz
230 V Δ / 400 V Y 400 V Δ / 690 V Y	460 V Y 460 V Δ	220...240 V Δ / 380...420 V Y 380...420 V Δ / 660...725 V Y	440...480 V Y 440...480 V Δ

ELMO-F Liquid-Ring Compressors, Range 2BV, 50/60 Hz

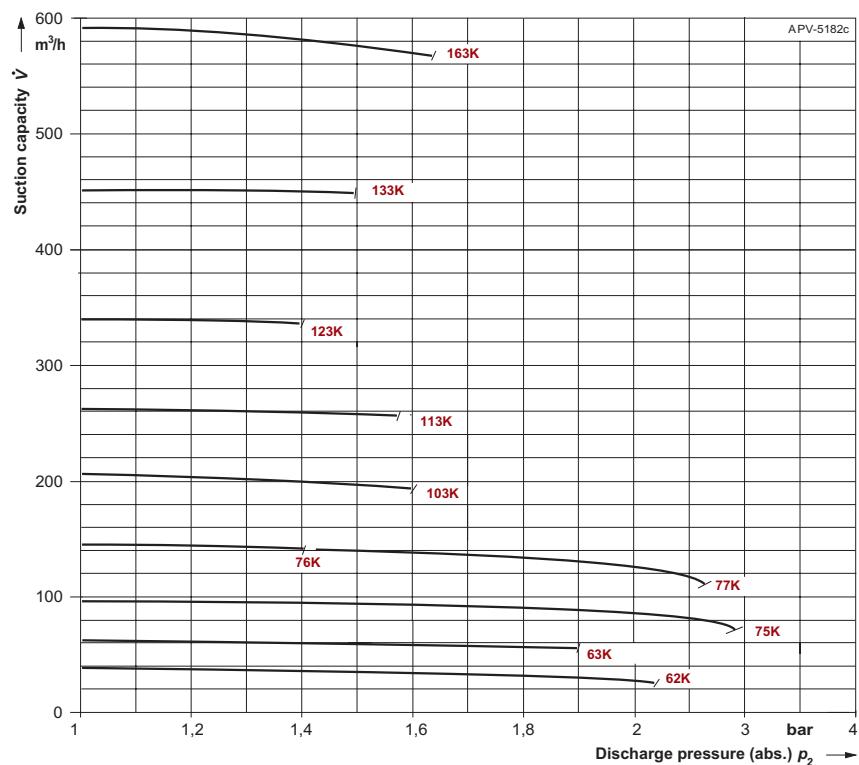


Selection diagram

50 Hz



60 Hz



The performance curves are valid for pumping air with 100% relative humidity and 20 °C, compression to 1013 mbar, and water at 15 °C as the operating liquid.

ELMO-F Liquid-Ring Compressors, Range 2BV, 50/60 Hz

Selection and ordering information										
Curve No.	Materials ¹⁾ Casing/ port plate/ impeller	Frequency Hz	Motor				Operating fluid requirement ³⁾ m³/h	Sound- pressure level ⁴⁾ dB(A)	Order No. • AVAILABLE EX STOCK	Weight approx. kg
			Rated output kW	Service- factor ⁵⁾ SF	Rated voltage V	Rated current A				
Compressors in monoblock design for 50/60 Hz										
60K	Cast iron/ceramic/bronze	50	1.5	1	230 Δ / 400 √ ²⁾	6.0 Δ / 3.4 √	0.2	67	2BV2 060-8NH02-1S	23
62K		60	1.73		460 √ ²⁾	3.4 √		69		
61K	Cast iron/ceramic/bronze	50	2.2	1	230 Δ / 400 √ ²⁾	8.1 Δ / 4.7 √	0.25	70	2BV2 061-8NH03-1S	25
63K		60	2.53		460 √ ²⁾	4.7 √		72		
70K	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	50	2.35	1.25	200...240 Δ / 345...415 √	12.8 Δ / 7.4 √	0.5	73	• 2BV2 070-0NH01-8S 2BV2 070-0PH01-8S 2BV2 070-0HH01-8S	35
72K	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	50	5.5	1	400 Δ / 690 √ ²⁾	11.3 Δ / 6.5 √	0.5	73	2BV2 070-8NH03-6S 2BV2 070-8PH03-6S 2BV2 070-8HH03-6S	70
75K	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	60	6.3	1	460 Δ ²⁾	11.3 Δ	0.5	75	2BV2 070-8NH03-6S 2BV2 070-8PH03-6S 2BV2 070-8HH03-6S	70
71K	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	50	3.85	1.4	200...240 Δ / 345...415 √	22.1 Δ / 12.8 √	0.7	76	• 2BV2 071-0NH04-8S 2BV2 071-0PH04-8S 2BV2 071-0HH04-8S	60
76K	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	60	6.3	1	220...275 Δ / 380...480 √	22.1 Δ / 12.8 √	0.7	77	• 2BV2 071-0NH04-8S 2BV2 071-0PH04-8S 2BV2 071-0HH04-8S	60
73K	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	50	7.5	1	400 Δ / 690 √ ²⁾	14.7 Δ / 8.5 √	0.7	76	2BV2 071-8NH05-6S 2BV2 071-8PH05-6S 2BV2 071-8HH05-6S	79
77K	Cast iron/ceramic/bronze CrNi steel/ceramic/CrNi steel CrNi steel/CrNi steel/CrNi steel	60	8.6	1	460 Δ ²⁾	14.7 Δ	0.7	77	2BV2 071-8NH05-6S 2BV2 071-8PH05-6S 2BV2 071-8HH05-6S	79
101K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	50	4	1.3	200...240 Δ / 345...415 √	25.5 Δ / 14.7 √	0.9	67	• 2BV5 110-0KH01-8S 2BV5 110-0HH01-8S	83
103K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	60	6.2	1	220...275 Δ / 380...480 √	25.5 Δ / 14.7 √	0.9	71	• 2BV5 110-0KH01-8S 2BV5 110-0HH01-8S	83
111K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	50	5.5	1.25	200...240 Δ / 345...415 √	31 Δ / 17.8 √	1.2	69	• 2BV5 111-0KH01-8P 2BV5 111-0HH01-8P	105
113K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	60	8.2	1	220...275 Δ / 380...480 √	31 Δ / 17.8 √	1.2	73	• 2BV5 111-0KH01-8P 2BV5 111-0HH01-8P	105
121K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	50	7.5	1.3	200...240 Δ / 345...415 √	43 Δ / 25 √	1.5	73	• 2BV5 121-0KH01-8P 2BV5 121-0HH01-8P	165
123K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	60	11.4	1	220...275 Δ / 380...480 √	43 Δ / 25 √	1.5	76	• 2BV5 121-0KH01-8P 2BV5 121-0HH01-8P	165
131K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	50	11	1.2	200...240 Δ / 345...415 √	50 Δ / 29 √	1.8	76	2BV5 131-0KH01-8P 2BV5 131-0HH01-8P	185
133K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	60	16.2	1	220...275 Δ / 380...480 √	56 Δ / 32.5 √	1.8	78	2BV5 131-0KH01-8P 2BV5 131-0HH01-8P	185
161K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	50	12	1.25	200...240 Δ / 345...415 √	63.5 Δ / 36.5 √	2.4	77	2BV5 161-0KH02-8P 2BV5 161-0HH02-8P	260
163K	Cast iron/cast iron/bronze CrNi steel/CrNi steel/CrNi steel	60	18	1	220...275 Δ / 380...480 √	72 Δ / 41.5 √	2.4	78	2BV5 161-0KH02-8P 2BV5 161-0HH02-8P	260
Other voltages at 50/60 Hz on request										

1) Materials

for	for Compressor	Compressor part		
Casing/port plate/impeller	Type	Casing	Port plate	Impeller
Cast iron/cast iron/bronze	2BV2 06.7.	GG 20	KER 221	G-CuAl 10 Ni
Cast iron/ceramic/bronze	2BV5 ...	GG 20	GG 20	G-CuAl 10 Ni
CrNi steel/ceramic/CrNi steel	2BV2 07.	G-X6CrNiMo 1810	KER 221	G-X6CrNiMo 1810
CrNi steel/CrNi steel/CrNi steel	2BV2 07. 2BV5 ...	G-X6CrNiMo 1810 G-X5CrNiMoNb 1810	G-X6CrNiMo 1810 G-X5CrNiMoNb 1810	G-X6CrNiMo 1810 G-X5CrNiMoNb 1810

2) Permissible voltage range

Rated voltage acc. to DIN IEC 38*	Permissible voltage range acc. to DIN VDE 0530 or DIN IEC 34-1**
230 V Δ / 400 V √ 400 V Δ / 690 V √	220...240 V Δ / 380...420 V √ 380...420 V Δ / 660...725 V √

* Voltage tolerance here ±10%.

** This voltage range is also indicated on the rating plate, together with the currents occurring in this range.
For this range, the permissible voltage tolerance acc. to DIN VDE 0530 and IEC 34-1 is ±5%.

3) Operating liquid quantity: Based on operating duty "increased operating liquid flow". The values are valid for the complete pressure range.

4) Measuring-surface sound-pressure level acc. to EN 21680-1, measured at 1 m distance, at medium discharge-pressure and with pipes connected.

5) The permissible motor rating is derived from the rated power x SF (service factor).

Ordering example for special voltages:

2BV2 060-0NC00-9S

N1 Y

220 V Δ, 50 Hz

For dimensions, see page 55.

Accessories for ELMO-F Vacuum Pumps, Range 2BV2

Selection and ordering information

		Material	For ELMO-F Type	Order No. • AVAILABLE EX STOCK	Weight approx. kg
	Discharge-liquid separator including return pipework and cavitation protection pipework	Plastic/ Steel PPN 4060/ GTW/St 33, zinc-coated Chrome-nickel steel/ chrome-nickel steel X6CrNiMoTi 17122/ 1.4571	2BV2 060 - 0N ... 2BV2 061 - 0N ... 2BV2 070 - 0N ... 2BV2 071 - 0N ... 2BV2 070 - 0H ... 2BV2 070 - 0P ... 2BV2 071 - 0H ... 2BV2 071 - 0P ...	• 2BX1 061 • 2BX1 061 • 2BX1 062 • 2BX1 062 2BX1 063	0.8 0.8 1.3 1.3 4.8
	Non-return valve directly screwed into the inlet flange of the pump	Brass	2BV2 060 - 0N ... 2BV2 061 - 0N ... 2BV2 070 - 0N ... 2BV2 071 - 0N ...	• 2BY6 930 - 0AX08 • 2BY6 930 - 0AX08 • 2BY6 932 - 0AX08 • 2BY6 932 - 0AX08	0.7 0.7 1.4 1.4
	Non-return valve (between flanges) for vertical mounting	Chrome-nickel steel X6CrNiMoTi 17122/ 1.4571	2BV2 070 - 0H ... 2BV2 070 - 0P ... 2BV2 071 - 0H ... 2BV2 071 - 0P ...	2BY6 904 - 0HX08	0.7
	Mounting kit for direct mounting of the non-return valve 2BY6 904 - 0HX08 onto the pump comprising 1 set Flange, fixing screws and gaskets	Chrome-nickel steel G-X6CrNiMo 1810/ 1.4408 X5CrNiMo 17122/ 1.4401	2BV2 070 - 0H ... 2BV2 070 - 0P ... 2BV2 071 - 0H ... 2BV2 071 - 0P ...	2BX1 080	1.9
	2 connections and 2 mating flanges (threaded flanges) including fixing screws and gaskets 2 connections and 2 mating flanges with weld-neck acc. to DIN 2642 G40 x 48.3 including fixing screws and gaskets	Cast iron GGG50/UST 37-1 Chrome-nickel steel G-X6CrNiMo 1810/ 1.4408 X5CrNiMo 17122/ 1.4401	2BV2 060 - 0N ... 2BV2 061 - 0N ... 2BV2 070 - 0N ... 2BV2 071 - 0N ... 2BV2 070 - 0H ... 2BV2 070 - 0P ... 2BV2 071 - 0H ... 2BV2 071 - 0P ...	• 2BX1 071 • 2BX1 071 • 2BX1 075 • 2BX1 077 2BX1 076 2BX1 076 2BX1 078 2BX1 078	1.1 1.1 1.9 2.1 1.9 1.9 2.1 2.1 (each piece)
	Gas ejector ¹⁾ Mains frequency 50 Hz and 60 Hz	Head; diffuser; jet Cast iron (GG 20); Brass (MS 58); Brass (MS 58) Chrome-nickel steel *; Chrome-nickel steel **; Chrome-nickel steel **	2BV2 060 - 0N ... 2BV2 061 - 0N ... 2BV2 070 - 0N ... 2BV2 071 - 0N ... 2BV2 070 - 0H ... 2BV2 070 - 0P ... 2BV2 071 - 0H ... 2BV2 071 - 0P ...	2BP1 061 - 1N 2BP1 061 - 1N 2BP1 070 - 1N 2BP1 071 - 1N 2BP1 070 - 1H 2BP1 070 - 1H 2BP1 071 - 1H 2BP1 071 - 1H	2 3 4 3 4

1) With connection to the vacuum pump, inlet pressures down to 10 mbar can be reached (propelling gas: ambient air at 20 °C, 1013 mbar).

*) G-X7CrNiMoNb 1810/1.4581

**) X10CrNiMoTi 1810/1.4571

For dimensions, see pages 56, 57.

Accessories for ELMO-F Vacuum Pumps, Range 2BV5/6

Selection and ordering information

		Material	For ELMO-F Type	Order No. •AVAILABLE EX STOCK	Weight approx. kg
	Discharge-liquid separator including return pipework, cavitation protection pipework, gaskets and screws	Plastic/ Steel PPN 4060/ GTW/St33, zinc-coated	2BV5 11 - 0K. 2BV5 12 /13. - 0K. 2BV5 16 - 0K.	•2BX1 100 •2BX1 101 2BX1 106	7 9 12
		Chrome-nickel steel/ Chrome-nickel steel X6CrNiMoTi 17122/1.4571	2BV. 11 - 0H. 2BV. 12 /13. - 0H. 2BV. 16 - 0H.	2BX1 102 2BX1 103 2BX1 107	17 19.5 38
	Non-return valve (between flanges) for vertical mounting	Steel housing Stainless steel cup Teflon gasket X10Cr 13/1.4006 X6CrNiMoTi 17122/1.4571 PTFE	2BV5 11 - 0K. 2BV5 12 /13. - 0K. 2BV5 16 - 0K.	•2BY6 905 - 5BX08 •2BY6 906 - 5BX08 2BY6 908 - 5BX08	1.2 1.7 2.3
		Stainless steel housing Stainless steel cup X6CrNiMoTi 17122/1.4571 X6CrNiMoTi 17122/1.4571	2BV. 11 - 0H. 2BV. 12 /13. - 0H. 2BV. 16 - 0H.	2BY6 905 - 5HX08 2BY6 906 - 5HX08 2BY6 908 - 5HX08	1.2 1.7 2.3
	Mounting kit For direct mounting of the non-return valve on the pump, comprising 1 mating flange with weld-neck acc. to DIN 2642, PN 10, gaskets and fixing screws comprising 1 mating flange (threaded flange) acc. to DIN 2566, PN 16, gaskets and fixing screws	Flange: Cast steel Weld-neck: Chrome-nickel steel GGG 60 X5CrNiMo 17122/1.4401	2BV. 110 - 0. 2BV. 111 - 0. 2BV. 121 - 0. 2BV. 131 - 0. 2BV. 161 - 0.	2BX1 081 2BX1 081 2BX1 082 2BX1 082 2BX1 083	3 3 3.5 3.5 4
		Steel USt 37.1	2BV. 110 - 0K 2BV. 111 - 0K 2BV. 121 - 0K 2BV. 131 - 0K 2BV. 161 - 0K	2BX1 090 2BX1 090 2BX1 091 2BX1 091 2BX1 092	3 3 3.5 3.5 4
	Mating flange 1 loose flange with weld-neck, acc. to DIN 2642, PN 10, gasket and fixing screws	Flange: Cast steel Weld-neck: Chrome-nickel steel GGG 60 X5CrNiMo 17122/1.4401	2BV. 110 - 0. 2BV. 111 - 0. 2BV. 121 - 0. 2BV. 131 - 0. 2BV. 161 - 0.	2BX1 093 2BX1 093 2BX1 094 2BX1 094 2BX1 095	3 3 3.5 3.5 4
	Threaded mating flange 1 loose mating flange acc. to DIN 2566, PN 16 with gasket and fixing screws	Steel USt 37.1	2BV. 110 - 0K 2BV. 111 - 0K 2BV. 121 - 0K 2BV. 131 - 0K 2BV. 161 - 0K	2BX1 096 2BX1 096 2BX1 097 2BX1 097 2BX1 098	3 3 3.5 3.5 4
Gas ejector ¹⁾					
Mains frequency 50 Hz					
		Head; diffusor; jet			
		Cast iron (GGG 40);	2BV5 110 - 0K	2BP5 110 - 1KC	15
		Cast iron (GGG 40);	2BV5 111 - 0K	2BP5 111 - 1KC	15
		Chrome-nickel steel (CrNi-St)	2BV5 121 - 0K	2BP5 121 - 1KC	19
			2BV5 131 - 0K	2BP5 131 - 1KC	19
			2BV5 161 - 0K	2BP5 161 - 1KC	25
		Chrome-nickel steel *;	2BV. 110 - 0H	2BP5 110 - 1HC	15
		Chrome-nickel steel **;	2BV. 111 - 0H	2BP5 111 - 1HC	15
		Chrome-nickel steel **	2BV. 121 - 0H	2BP5 121 - 1HC	19
			2BV. 131 - 0H	2BP5 131 - 1HC	19
			2BV. 161 - 0H	2BP5 161 - 1HC	25
		Mains frequency 60 Hz			
		Head; diffusor; jet			
		Cast iron (GGG 40);	2BV5 110 - 0K	2BP5 110 - 1KF	15
		Cast iron (GGG 40);	2BV5 111 - 0K	2BP5 111 - 1KF	15
		Chrome-nickel steel (CrNi-St)	2BV5 121 - 0K	2BP5 121 - 1KF	19
			2BV5 131 - 0K	2BP5 131 - 1KF	19
			2BV5 161 - 0K	2BP5 161 - 1KF	25
		Chrome-nickel steel *;	2BV. 110 - 0H	2BP5 110 - 1HF	15
		Chrome-nickel steel **;	2BV. 111 - 0H	2BP5 111 - 1HF	15
		Chrome-nickel steel **	2BV. 121 - 0H	2BP5 121 - 1HF	19
			2BV. 131 - 0H	2BP5 131 - 1HF	19
			2BV. 161 - 0H	2BP5 161 - 1HF	25
			Pressure gauge -1 to +0.6 bar including stopcock and gasket		2BV. 110 - ... to 2BV. 161 - ...

1) With connection to the vacuum pump, inlet pressures down to 10 mbar can be achieved (propelling gas: ambient air at 20 °C, 1013 mbar).

*) G-X7CrNiMoNb 1810/1.4581

**) X10CrNiMoTi 1810/1.4571

For dimensions, see pages 56, 57.

Accessories for ELMO-F Vacuum Pumps, Range 2BV7

Selection and ordering information

	Material	For ELMO-F Type	Order No.	Weight approx. kg
 Example	on request	2BV7 060 - . A 2BV7 061 - . A 2BV7 070 - . A 2BV7 071 - . A	2BX3 000 - 1A 2BX3 001 - 1A	1.5 on request
 Example	Brass / NBR, 1.4301	2BV7 060 - . A 2BV7 061 - . A 2BV7 070 - . A 2BV7 071 - . A	2BX3 130 - 1A 2BX3 131 - 1A	0.9 on request
 Example	Metalleable iron zinc coated (EN 10 242)	2BV7 060 - . A 2BV7 061 - . A 2BV7 070 - . A 2BV7 071 - . A	2BX3 020 - 1A 2BX3 021 - 1A	1.2 on request
 	Cast iron / brass / Metalleable iron zinc coated (EN 10 242)	2BV7 060 - . A 2BV7 061 - . A 2BV7 070 - . A 2BV7 071 - . A	2BX3 160 - 1A 2BX3 161 - 1A 2BX3 162 - 1A	2.0 on request on request
 Example	on request	2BV7 060 - . A 2BV7 061 - . A 2BV7 070 - . A 2BV7 071 - . A	2BX3 110 - 1A 2BX3 111 - 1A	0.1 on request

1) Air ejector with connection to the vacuum pump, inlet pressures down to 10 mbar abs. can be achieved (propelin gas: ambient air of 20 °C, 1013 mbar).

The illustrations are preliminary and not obligatory.

Dimensions on request.

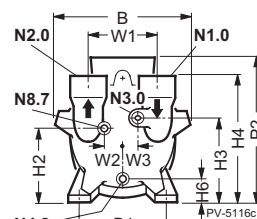
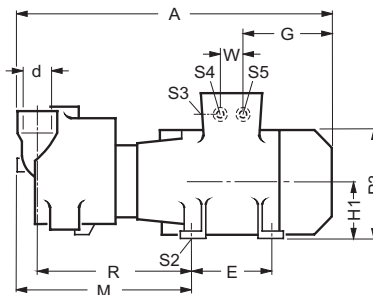
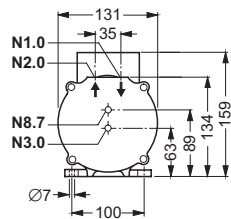
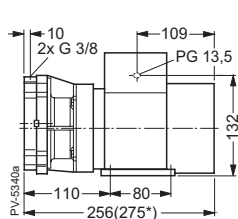
Accessories (supplied with pump)

	Abbreviation ¹⁾
Liquid separator	B11
Non-return valve can be screwed directly onto the inlet flange of the pump	B12
2 connections and 2 mating flanges (Threaded flanges) incl. screws and gaskets	B13
Gas ejector ¹⁾	B14
Valve for cavitation protection	B15

1) A "Z" and the abbreviation should be added to the order no. as follows: Example 2BV7 061-2AC00-1S-Z
B11 + B14

Dimensions for ELMO-F Vacuum Pumps, Range 2BV2/3

Dimensions for 2BV2 06., 2BV2 07., 2BV3 05. (mm)



2BV3 051

N1.0 Suction connection
N2.0 Discharge connection
N3.0 Operating water connection (G $\frac{3}{4}$)
N8.7 Cavitation protection (built-in) (G $\frac{3}{4}$)
* Dimensions of 2BV3 051-0GB02-1E
Capacitor integrated in terminal box.

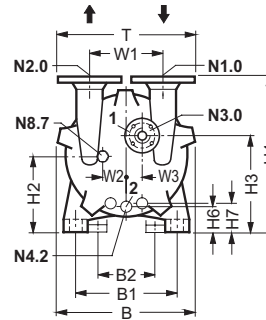
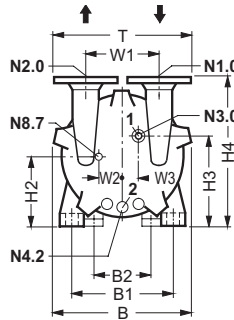
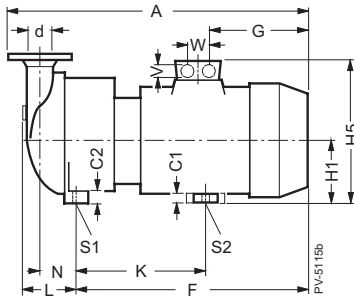
2BV2 06./2BV2 07.

N1.0 Suction connection
N2.0 Discharge connection
N3.0 Operating water connection
N4.2 Drain or sealant supply
N8.7 Cavitation protection (built-in)

Type	Curve No.	A	B	B1	E	G	H1	H2	H3	H4	H6	M	P2	P3
2BV2 060 -0 -1 - OND01	60V 60V/62V 60V	403	186	125	100	153 138	80	108	116	185	27,5	219	200	158
2BV2 061 -2 -3 - OND03	61V 61V/63V 61V	476	186	140	100	185 170	90	118	126	195	37,5	251	218	177
2BV2 070 -0 -1 - OND01	70V 70V/72V 70V	494 552	223	140 160	100 140	185 190	90 100	117.5 127.5	136 146	212 222	23 33	265 300	218 235	177 197
2BV2 071 -3	71V 71V/73V 71V	559 564	223	160 216	140	190 254	100 132	127.5 159.5	146 178	222 254	33 65	307 276	235 327	198 262
Type	Curve No.	R	S2	S3/S4	S5	W	W1	W2	W3	d	N3.0	N4.2	N8.7	
2BV2 060 -0 -1 - OND01	60V 60V/62V 60V	193	9,5	M 25 x 1.5	M 16 x 1.5	32	110	25.5	21	G 1 (18 deep)	G $\frac{3}{4}$ (12 deep)	G $\frac{1}{4}$ (12 deep)	G $\frac{3}{8}$ (11 deep)	
2BV2 061 -2 -3 - OND03	61V 61V/63V 61V	224	10				110	25.5	21	G 1 (18 deep)	G $\frac{3}{4}$ (12 deep)	G $\frac{1}{4}$ (12 deep)	G $\frac{3}{8}$ (11 deep)	
2BV2 070 -0 -1 - OND01	70V 70V/72V 70V	234 269	10 12	4 x M 32 x 1.5		42	110	33	27	G 1 $\frac{1}{2}$ (22 deep)	G $\frac{3}{4}$ (12 deep)	G $\frac{1}{4}$ (12 deep)	G $\frac{3}{8}$ (11 deep)	
2BV2 071 -3	71V 71V/73V 71V	276 246	12				110	33	27	G 1 $\frac{1}{2}$ (22 deep)	G $\frac{3}{4}$ (12 deep)	G $\frac{1}{4}$ (12 deep)	G $\frac{3}{8}$ (11 deep)	

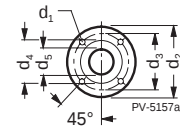
Dimensions for ELMO-F Vacuum Pumps, Range 2BV5

Dimensions for 2BV5 110, 2BV5 111, 2BV5 121, 2BV5 131, 2BV5 161 (mm)

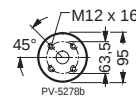


2BV5... - 0K
(cast iron version)

2BV5... - 0H
(CrNi steel version)



N1.0, N2.0 1)



N3.0 (only 2BV5 ... - 0H.) 2)

- N1.0 Suction connection
- N2.0 Discharge connection
- N3.0 Operating water connection
- N4.2 Drain or sealant supply
- N8.7 Cavitation protection (built-in)

Type	Curve No.	A	B	B1	B2	C1	C2	H1	H2	H3	H4	H5	H6	H7	K	L
2BV5 110 - 0K ...	101V/103V	639	326	255	190	20	26	140	156	202	361	288	38.5	58	295	128
2BV5 110 - 0H ...	101V	669	326	255	190	20	36	150	153	203	371	345	47.5	67	295	130
2BV5 110 - 0KD.2			166						211							
2BV5 110 - 0HD.2			163						213							
2BV5 111 - 0K ...	111V/113V	655	325	265	190	20	26	150	166	212	371	345	47.5	68	291	130
2BV5 111 - 0H ...	111V	693	330	265	190	20	26	150	163	213	371	345	47.5	67	291	130
2BV5 111 - 0KD.2			166						212							
2BV5 111 - 0HD.2			163						213							
2BV5 121 - 0K ...	121V/123V	715	347	265	190	20	26	150	167	217	385	345	38.5	60	336	141
2BV5 121 - 0H ...	121V	798	352	265	190	20	51	175	192	242	410	408	63.5	85	375	141
2BV5 121 - 0KD.2			347													
2BV5 121 - 0HD.2			352													
2BV5 131 - 0K ...	131V/133V	802	377	300	190	20	30	175	194	249	427	409	53	76	373	147
2BV5 131 - 0H ...	131V	842	382	300	190	20	30	175	194	249	427	409	53	76	373	150
2BV5 131 - 0KD.2			377													147
2BV5 131 - 0HD.2			382													150
2BV5 161 - 0KC.0	161V	895	479	370	190	20	30	210	225	303	521	444	51	79.5	422.5	201
2BV5 161 - 0HC.0	161V/163V	1011	484	370	370	30	30	210	225	305	521	485	51	79.5	617.5	201
2BV5 161 - 0K ...2			479													
2BV5 161 - 0H ...2			484													
Type	Curve No.	F	G	N	S1	S2	T	V	d ₁		d ₂	d ₃	d ₄	d ₅		
2BV5 110 - 0	101V/103V	468	208	92	12 x 23	12	340	4 x M 32 x 1.5	19	160	123	97	52			
2BV5 110 - 0.D.2	101V	497	233													
2BV5 111 - 0	111V/113V	483	233	92	12 x 23	12	340	2 x Pg 21	19	160	123	97	52			
2BV5 111 - 0.D.2	111V	521	271													
2BV5 121 - 0	121V/123V	528	233	97	12 x 23	12	382	2 x Pg 21	19	182	142	113	66.5			
2BV5 121 - 0.D.2	121V	610	287			14		2 x Pg 29								
2BV5 131 - 0	131V/133V	608	287	103	15 x 25	14	382	2 x Pg 29	19	182	142	113	66.5			
2BV5 131 - 0.D.2	131V	648	327													
2BV5 161 - 0.C.0	161V	658	243	137.5	15 x 27	14	450	2 x Pg 29	22	200	156	130	80			
2BV5 161 - 0 ...2	161V/163V	773.5	450													
Type	Curve No.	W	W1	W2	W3	d (N1.0, N2.0)		N3.0	N4.2		N8.7					
2BV5 110 - 0K ...	101V/103V	42	180	52.5	27	DN 50/PN 40		G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)					
2BV5 110 - 0H ...					24.5			DN 15 + G ¾ (24 deep)								
2BV5 111 - 0K ...	111V/113V	42	180	52.5	27	DN 50/2"		G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)					
2BV5 111 - 0H ...					24.5			DN 15 + G ¾ (24 deep)								
2BV5 121 - 0K ...	121V/123V	42 ³⁾	200	57	29	DN 65/2 ½"		G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)					
2BV5 121 - 0H ...								DN 15 + G ¾ (24 deep)								
2BV5 131 - 0K ...	131V/133V	54	200	62.5	32	DN 65/2 ½"		G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)					
2BV5 131 - 0H ...								DN 15 + G ¾ (24 deep)								
2BV5 161 - 0K ...2	161V/163V	75 ⁴⁾	250	81	41	DN 80/3"		G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)					
2BV5 161 - 0H ...2								DN 15 + G ¾ (24 deep)								

1) Suitable for mating flange acc. to DIN 2501, ND 16 or ANSI B16.5-3-150.

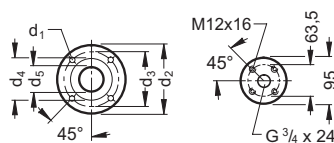
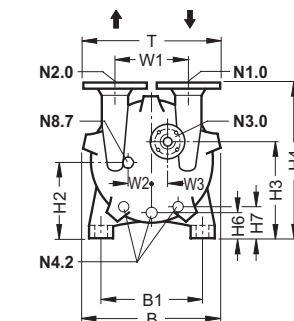
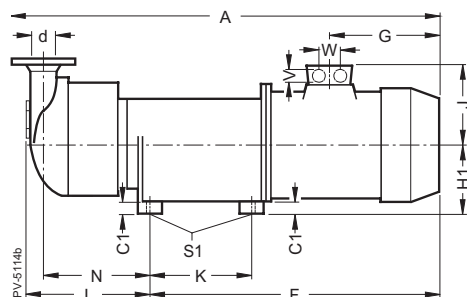
2) Suitable for round flange acc. to DIN 2633, ND 16, nominal diameter 15, or ANSI B16.5-1/2-150.

3) 2BV5 121-0.D.: 54 mm

4) 2BV5 161-0.C.O.: 54 mm

Dimensions for ELMO-F Vacuum Pumps, Range 2BV6

Dimensions for 2BV6 110, 2BV6 111, 2BV6 121, 2BV6 131, 2BV6 161 (mm)



- N1.0 Suction connection
- N2.0 Discharge connection
- N3.0 Operating liquid connection
- N4.2 Drain and sealant supply
- N8.7 Cavitation protection (built-in)

N1.0, N2.0 ¹⁾

N3.0 ²⁾

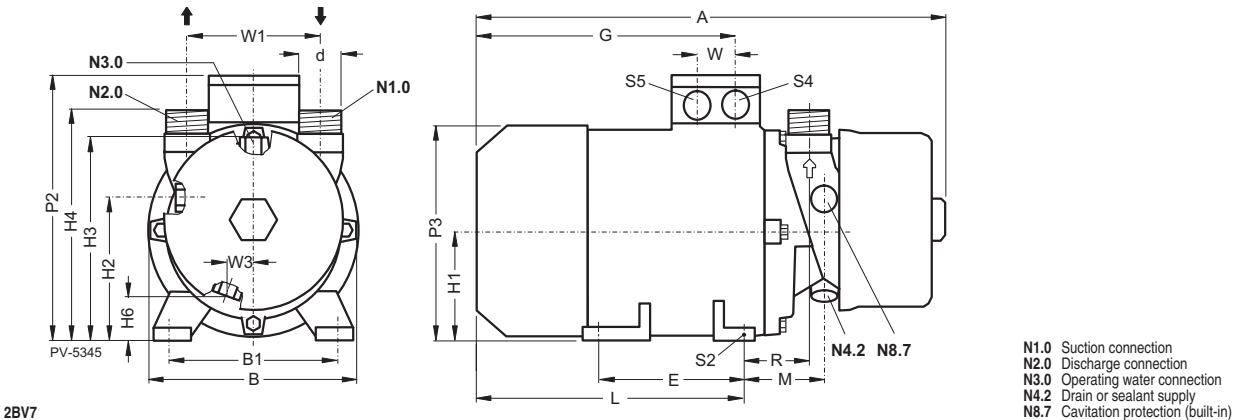
Type	Curve No.	A	B	B1	C1	F	G	J	V	W					
2BV6 110 - OHC.0	101V	986	330	255	26	626	195	171	2 x Pg 21	42					
2BV6 110 - OHD.2	101V	1044				684	233	195							
2BV6 110 - OHH.2	103V														
2BV6 110 - OHE.2	101V	1118				758	305	253		54					
2BV6 110 - OHR.3	103V														
2BV6 111 - OHC.0	111V	1124	330	279	26	733	233	195	2 x Pg 21	42					
2BV6 111 - OHD.2	111V	1162				771	271								
2BV6 111 - OHH.2	113V	1124				733	233								
2BV6 111 - OHE.2	111V	1198				807	305	253		54					
2BV6 111 - OHR.2	113V														
2BV6 121 - OHC.0	121V	1152	351	279	26	733	233	195	2 x Pg 21	42					
2BV6 121 - OHD.2	121V	1287				868	287	233	2 x Pg 29	54					
2BV6 121 - OHH.2	123V														
2BV6 121 - OHE.2	121V	1294				875	339	276							
2BV6 121 - OHR.2	123V														
2BV6 131 - OHC.0	131V	1383	382	320	26	939	287	233	2 x Pg 29	54					
2BV6 131 - OHD.2	131V	1423				979	327								
2BV6 131 - OHH.2	133V	1383				939	287								
2BV6 131 - OHE.2	131V	1456				1012	390	292		117					
2BV6 131 - OHR.2	133V														
2BV6 161 - OHC.0	161V	1441	484	320	26	939	287	233	2 x Pg 29	54					
2BV6 161 - OHD.2	161V	1569				1067	450	275		75					
2BV6 161 - OHH.2	163V														
2BV6 161 - OHE.2	161V	1573				1071	454	310							
2BV6 161 - OHR.2	163V														
Type	Curve No.	H1	H2	H3	H4	H6	H7	K	L	N	S1	T	W1	W2	W3
2BV6 110 -	101V/103V	160	173	223	381	58	77	250	319	281	Ø 13 x 23	340	180	52	27
2BV6 111 -	111V/113V	180	193	243	401	78	97	320	349	311	Ø 13 x 23	340	180	52	27
2BV6 121 -	121V/123V	180	197	247	415	69	90	320	372	328	Ø 13 x 23	381.5	200	57	29
2BV6 131 -	131V/133V	215	234	287	467	93	116	414	400	353	Ø 15 x 27	381.5	200	62.5	32
2BV6 161 -	161V/163V	215	230	310	526	56	85	414	466	402	Ø 15 x 27	450	250	81	41
Type	Curve No.	d ₁	d ₂	d ₃	d ₄	d ₅	d (N1.0, N2.0)		N3.0	N4.2		N8.7			
2BV6 110 -	101V/103V	19	160	123	97	52	DN 50/2"		DN 15 + G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)			
2BV6 111 -	111V/113V	19	160	123	97	52	DN 50/2"		DN 15 + G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)			
2BV6 121 -	121V/123V	19	181.5	142	113	66.5	DN 65/2½"		DN 15 + G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)			
2BV6 131 -	131V/133V	19	181.5	142	113	66.5	DN 65/2½"		DN 15 + G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)			
2BV6 161 -	161V/163V	22	200	156	130	80	DN 80/3"		DN 15 + G ¾ (24 deep)	G ¾ (25 deep)		G ¾ (11 deep)			

1) Suitable for mating flange acc. to DIN 2501, ND 16 or ANSI B16.5-3-150.

2) Suitable for round flange acc. to DIN 2633, ND 16, nominal diameter 15, or ANSI-B16.5-1/2-150.

Dimensions for ELMO-F Vacuum Pumps, Range 2BV7

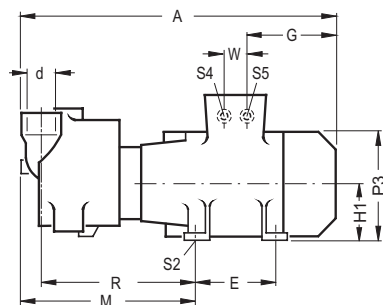
Dimensions for 2BV7 (mm)



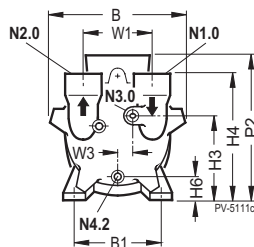
Type	Curve No.	A	B	B ₁	E	G	H ₁	H ₂	H ₃	H ₄	H ₅	M	P ₂	P ₃	R	S ₂	S ₄	S ₅	W	W ₁	W ₃	d	N3.0	N4.0
2BV7 060 - 1	60V	325	162	125	100	154	80	107	156	180	26	72	200	161	59	10	M 25 x 1.5	M 16 x 1.5	32	110	23	R1"	G ¼	G ¼
2BV7 060 - 2		372	180	140		186	90	117	166	190	35	68	218	161	55									
2BV7 061	61V	394	180	140	100	186	90	117	166	190	36	68	218	180	55	10	M 25 x 1.5	M 16 x 1.5	32	110	23	R1"	G ¼	G ¼
2BV7 070 - 1	70V	438	202	160	140	241	100	127	194	222	34	89	235	201	71	12	M 32 x 1.5	M 32 x 1.5	42	120	28	R1 ½"	G ¼	G ¼
2BV7 070 - 2		473				266																		
2BV7 071 - 1	71V	488	227	190	140	252	112	139	208	234	46	96	260	225	78	12	M 32 x 1.5	M 32 x 1.5	42	120	28	R1 ½"	G ¼	G ¼
2BV7 071 - 2		511	266	216		266	132	159	226	254	66	99	288	265	81				42					

Dimensions for ELMO-F Compressors, Range 2BV.

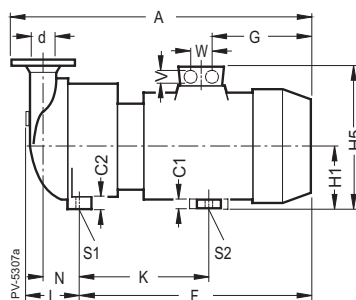
Dimensions for 2BV2 06., 2BV2 07., 2BV5 (mm)



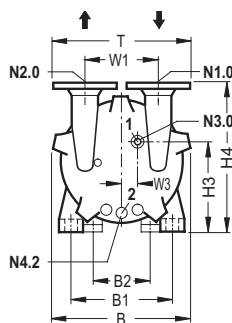
2BV2 06., 2BV2 07.



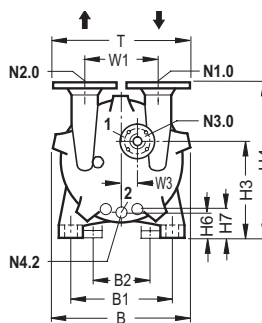
N1.0 Suction connection
N2.0 Discharge connection
N3.0 Operating water connection
N4.2 Drain or sealant supply



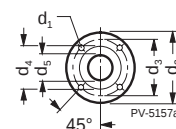
2BV5



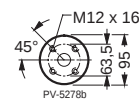
2BV5 ...-0K
(Cast iron version)



2BV5 ...-0H
(CrNi steel version)



N1.0, N2.0 ¹⁾



N3.0 (only 2BV5...-0H) ²⁾

Type	Curve No.	A	B	B1	E	G	H1	H3	H4	H6	M	P2	P3	R	S2	S4	S5	W	W1	W3	d	N3.0	N4.2
2BV2 060 -2	60K/62K	457	186	140	100	185	90	126	195	37.5	276	218	177	205	10	M 25 x 1.5	M 16 x 1.5	32	110	21	G 1	G ¾ 12 deep	G ¾ 12 deep
2BV2 061 -3	61K/63K	476				185					251	218	177	224				32					
2BV2 070 -1 -3	70K 72K/75K	552 557	223	160 216	140	190 225	100 132	146 178	222 254	33 65	300 302	235 299	197 261	269 239	12	4 x M 32 x 1.5		42	110	27	G 1½	G ¾ 12 deep	G ¾ 12 deep
2BV2 071 -4 -5	71K/76K 73K/77K	564	223	216	140	225	132	261	254	65	276	299	261	246	12	4 x M 32 x 1.5		42	110	27	G 1½	G ¾ 12 deep	G ¾ 12 deep
Type	Curve No.	A	B	B1	B2	C1	C2	H1	H3	H4	H5	H6	H7	K	L	F	G	N	S1	S2	T	V	
2BV5 110 - 0K... 2BV5 110 - 0H...	101K/103K	647	325 330	255	190	20	26	140	201 203	361	311	38	57	297.5	130	475	195	92	12 x 23	12	340	2 x Pg 21	
2BV5 111 - 0K... 2BV5 111 - 0H...	111K/113K	655	325 330	265	190	20	26	150	212 213	371	346	48	68 67	291	130	483	233	92	12 x 23	12	340	2 x Pg 21	
2BV5 121 - 0K... 2BV5 121 - 0H...	121K/123K	715	347 352	265	190	20	26	150	217	385	346	39	60	336	141	528	233	97	12 x 23	12	382	2 x Pg 21	
2BV5 131 - 0K... 2BV5 131 - 0H...	131K/133K	802	377 382	300	190	20	30	175	249	427	409	53	76	373	147 150	608	287	103	15 x 25	14	382	2 x Pg 29	
2BV5 161 - 0K... 2BV5 161 - 0H...	161K/163K	1011	479 484	370	370	30	30	210	303 305	521	485	51	80	617.5	201	773.5	450	137.5	15 x 27	15	450	2 x Pg 29	
Type	Curve No.	d ₁	d ₂	d ₃	d ₄	d ₅	W	W1	W3	d (N1.0, N2.0)	N3.0	N4.2											
2BV5 110 - 0K... 2BV5 110 - 0H...	101K/103K	19	160	123	97	52	42	180	27 24	DN 50/2"	G ¾ (24 deep) DN 15 + G ¾ (24 deep)	G ¾ (25 deep)											
2BV5 111 - 0K... 2BV5 111 - 0H...	111K/113K	19	160	123	97	52	42	180	27 24	DN 50/2"	G ¾ (24 deep) DN 15 + G ¾ (24 deep)	G ¾ (25 deep)											
2BV5 121 - 0K... 2BV5 121 - 0H...	121K/123K	19	182	142	113	66.5	42	200	29	DN 65/2 ½"	G ¾ (24 deep) DN 15 + G ¾ (24 deep)	G ¾ (25 deep)											
2BV5 131 - 0K... 2BV5 131 - 0H...	131K/133K	19	182	142	113	66.5	54	200	32	DN 65/2 ½"	G ¾ (24 deep) DN 15 + G ¾ (24 deep)	G ¾ (25 deep)											
2BV5 161 - 0K... 2BV5 161 - 0H...	161K/163K	22	200	156	130	80	75	250	41	DN 80/3"	G ¾ (24 deep) DN 15 + G ¾ (24 deep)	G ¾ (25 deep)											

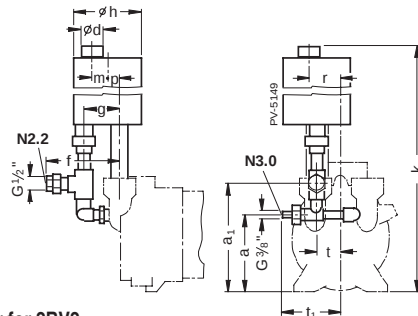
1) Suitable for mating flange acc. to DIN 2501, ND 16 or ANSI B16.5-3-150.

2) Suitable for round flange acc. to DIN 2633, ND 16, nominal diameter 15, or ANSI B16.5-1/2-150.

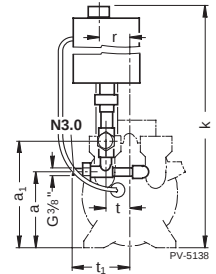
Accessories for ELMO-F Vacuum Pumps and Compressors, Range 2BV.

Dimensions (mm)

Discharge-liquid separator
without pipe for cavitation
protection



Discharge-liquid separator
with pipe for cavitation
protection

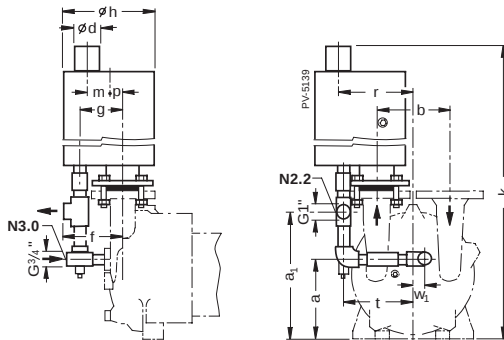


N2.2 Separator overflow
N3.0 Operating liquid connection

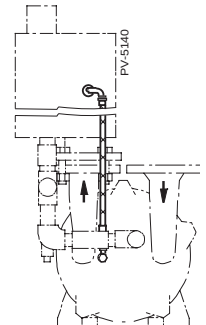
Discharge-liquid separator for 2BV2

Order No.	For type	a	a ₁	Ø d	f	g	Ø h	k	m	p	r	t	t ₁
2BX1 061	2BV2 060	116	191	40	153	72	125	521	27	30	71	75	185
2BX1 061	2BV2 061	126	201	40	153	72	125	531	27	30	71	75	185
2BX1 062/063	2BV2 070-0...0	136	211	50	167	86	161	620	19	31	86	69	179
2BX1 062/063	2BV2 070-0...1	146	221	50	167	86	161	630	19	31	86	69	179
2BX1 062/063	2BV2 071-0...3	146	221	50	167	86	161	630	19	31	86	69	179
2BX1 062/063	2BV2 071-0...4	178	253	50	167	86	161	662	19	31	86	69	179

Discharge-liquid separator
without pipe for cavitation
protection



Discharge-liquid separator
with pipe for cavitation
protection

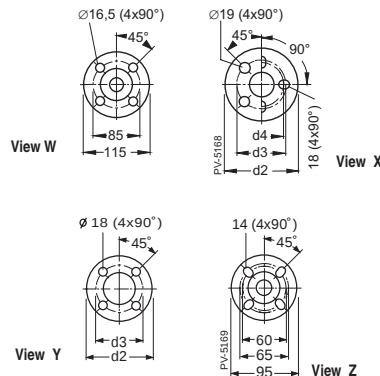
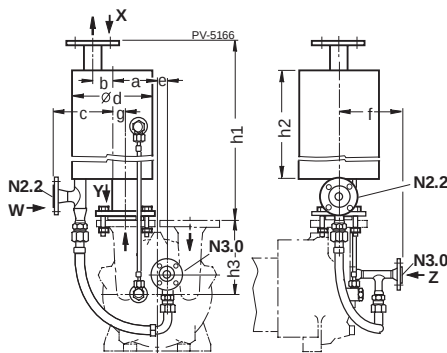


N2.2 Separator overflow
N3.0 Operating liquid connection

Discharge-liquid separator for 2BV5

Order No.	For type	a	a ₁	b	Ø d	f ₁	f ₂	g	Ø h	k	m	p	r	t	w ₁
2BX1 100	2BV5 110	202	322	180	63	125	120	87	200	904	54	22	144	151	27
	2BV5 111	212	332							914					27
2BX1 101	2BV5 121	217	337	200	75	131	126	93	250	915	18	12	200	200	29
	2BV5 131	249	369							955					32
2BX1 106	2BV5 161	305	425	250	90	151	146	113	315	1120	0	0	255	182	41

Discharge-liquid separator
with pipe for cavitation
protection



N2.2 Separator overflow¹⁾
N3.0 Operating liquid connection

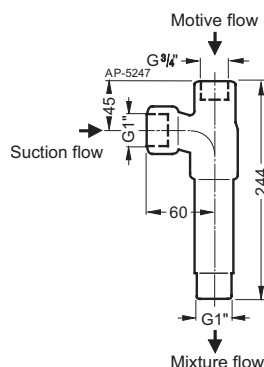
- 2BX1 10.: Flange DIN 2633, ND 16 suitable for ANSI-1¼-150
- 2BX1 102: Flange B DIN 2576 suitable for ANSI-2-150
2BX1 103: Flange B DIN 2576 suitable for ANSI-2¼-150
2BX1 107: Flange 100/108 DIN 2633 suitable for ANSI-4-150
- 2BX1 102: Loose flange DIN 2642
2BX1 103: Loose flange DIN 2642
2BX1 107: Flange 80/88.9 DIN 2633

Discharge-liquid separator for 2BV5 ...-0H and 2BV6

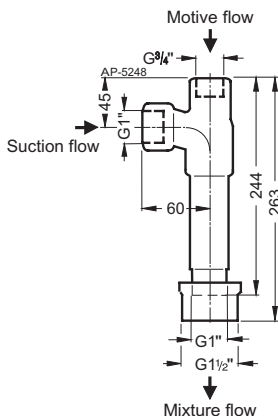
Order No.	For type	a	b	c	d	e	f	g	h ₁	h ₂	h ₃	Flange view X ²⁾			Flange view Y ³⁾	
2BX1 102	2BV. 110 2BV. 111	123	45	157	204	25	164	33	598	380	221	d2	d3	d4	d2	d3
2BX1 103	2BV. 121 2BV. 131	143	62	157	254	29 32	170 173	43	598	380	235 252	185	145	139.7	185	145
2BX1 107	2BV. 161	203	100	77	355	41	188	78	717	505	311	220	190.5	180	200	160

Accessories for ELMO-F Vacuum Pumps and Compressors, Range 2BV.

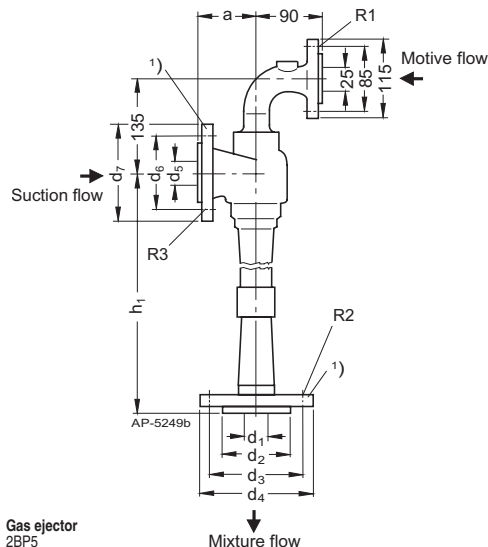
Dimensions for Accessories 2BV2 06., 2BV2 07., 2BV5 (mm)



Gas ejector
2BP1 061



Gas ejector
2BP1 07.



Gas ejector
2BP5
1) Loose flange

Gas ejector for 2BV5 and 2BV6

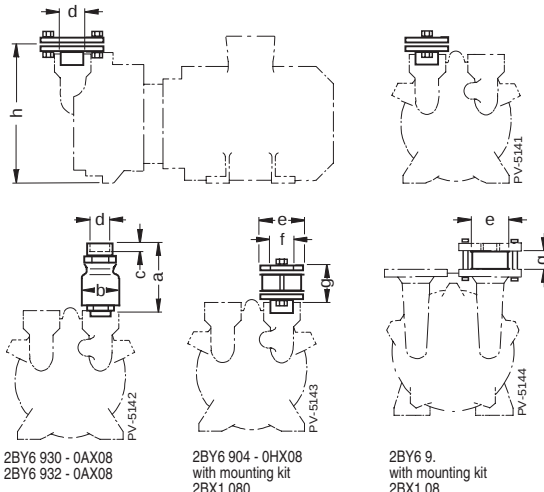
Order No.	For type	a	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	d ₇	h ₁	R1	R2	R3
50 Hz													
2BP5 110 - 1.C	2BV. 110	104	32	78	125	165	32	100	140	352	4 x 14	4 x 18	4 x 18
2BP5 111 - 1.C	2BV. 111	104	32	78	125	165	32	100	140	352	4 x 14	4 x 18	4 x 18
2BP5 121 - 1.C	2BV. 121	114	40	88	145	185	40	110	150	412	4 x 14	4 x 18	4 x 18
2BP5 131 - 1.C	2BV. 131	114	40	88	145	185	40	110	150	412	4 x 14	4 x 18	4 x 18
2BP5 161 - 1.C	2BV. 161	100	50	102	160	200	50	125	165	605	4 x 14	8 x 18	4 x 18
60 Hz													
2BP5 110 - 1.F	2BV. 110	104	32	78	125	165	32	100	140	352	4 x 14	4 x 18	4 x 18
2BP5 111 - 1.F	2BV. 111	114	40	78	125	165	40	100	140	412	4 x 14	4 x 18	4 x 18
2BP5 121 - 1.F	2BV. 121	114	40	88	145	185	40	110	150	412	4 x 14	4 x 18	4 x 18
2BP5 131 - 1.F	2BV. 131	100	50	88	145	185	50	110	150	605	4 x 14	4 x 18	4 x 18
2BP5 161 - 1.F	2BV. 161	100	50	102	160	200	50	125	165	605	4 x 14	8 x 18	4 x 18

Flange connection for 2BV2

Order No.	For type	d	h
2BX1 071	2BV2 060	G 1	211
	2BV2 061		221
2BX1 075/076	2BV2 070 - 0...0	G 1 1/2	240
	2BV2 070 - 0...1		250
2BX1 077/78	2BV2 070 - 0...3	G 1 1/2	250
	2BV2 071 - 0...4		282

Non-return valve for 2BV2, 2BV5 and 2BV6

	2BY6 93.				2BY6 90. with 2BX1 080		
For type	a	b	c	d	e	f	g
2BV2 060/2BV2 061	79	57	17	G 1	—	—	—
2BV2 070/2BV1 071	85	75	20	G 1 1/2	90	54	86
2BV. 110/2BV. 111	—	—	—	—	100	—	42
2BV. 121/2BV. 131	—	—	—	—	118	—	48
2BV. 161	—	—	—	—	138	—	55



2BY6 930 - 0AX08
2BY6 932 - 0AX08

2BY6 904 - 0HX08
with mounting kit
2BX1 080

2BY6 9.
with mounting kit
2BX1 08.

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