

Designed, depending on flowing part material, for charging of air, inert or aggressive gases, non-soluble in water.

Application: chemical, metallurgical, food industry, machine-building, agriculture and construction.

Main advantage of compressors - easy operation and maintenance. They have no special system for lubrication and oil pumps. All clearances between rotor and static casing are sealed with operating medium. Simplicity of construction, no friction pairs in inner flowing part provide reliability and service life of pump operation.

Technical Data

Designation	Capacity as per initial conditions, m ³ /min.	Pressure		Temperature, °C		Water nominal consumption, l/min	Consumed power, kW	Rotational speed (synchr.) rpm	Weight of pump without drive, kg
		suction, MPa	discharge, MPa	supplied water	gas, nominal				
VK-25/1.5	25±2.5	0.1013	0.15	15±3	20±5	45	750	45	1200
VK-50	50±5	0.03	0.173	15±3	20±5	125	600	190	3000
VK-50N	50±5	0.1013	0.15	15±3	20±5	78	600	80	1800
VK-50T	50±5	0.1013	0.15	15±3	20±5	78	600	80	1360
VK-50M1	52.5 ^{+5.0} _{-2.5}	0.1013	0.15	15±3	20±5	74	600	92	2150
VK-60/1.0	60±6	0.1013	0.196	15±3	20±5	134	600	132	1700
VK-60/2.5N*	60 ⁺³ ₋₆	0.1013	0.25	15±3	20±5	150	750	190	1800
VK-100/1.0	100 ⁺¹⁰ _{-5.0}	0.1013	0.196	15±3	20±5	265	500	250	4360
VK-150/1.2N	150 ⁺¹⁵ _{-7.5}	0.1013	0.22	15±3	20±5	300	600	450	5000
VK-150/1.2	150 ⁺¹⁵ _{-7.5}	0.1013	0.22	15±3	20±5	300	600	450	5200
VVK-150	140 ⁺¹⁰ ₋₂₀	0.05	0.15	5÷35	0÷40	320	300	230	11174

* - manufactured according to 1.4270-628.00-00T3.

Motor serves as a drive. It is not included in the delivery scope. Compressor can be equipped with any engine of corresponding power and rotational speed.

The example of compressor designation

"Compressor VK-50M1 TU U3 20-057447991-047-99",

where VK – liquid-packed ring-type compressor;

50 – standard capacity, m³/min;

T- inner flowing part material:

T – titanium alloy;

N – stainless steel 12X18H10T;

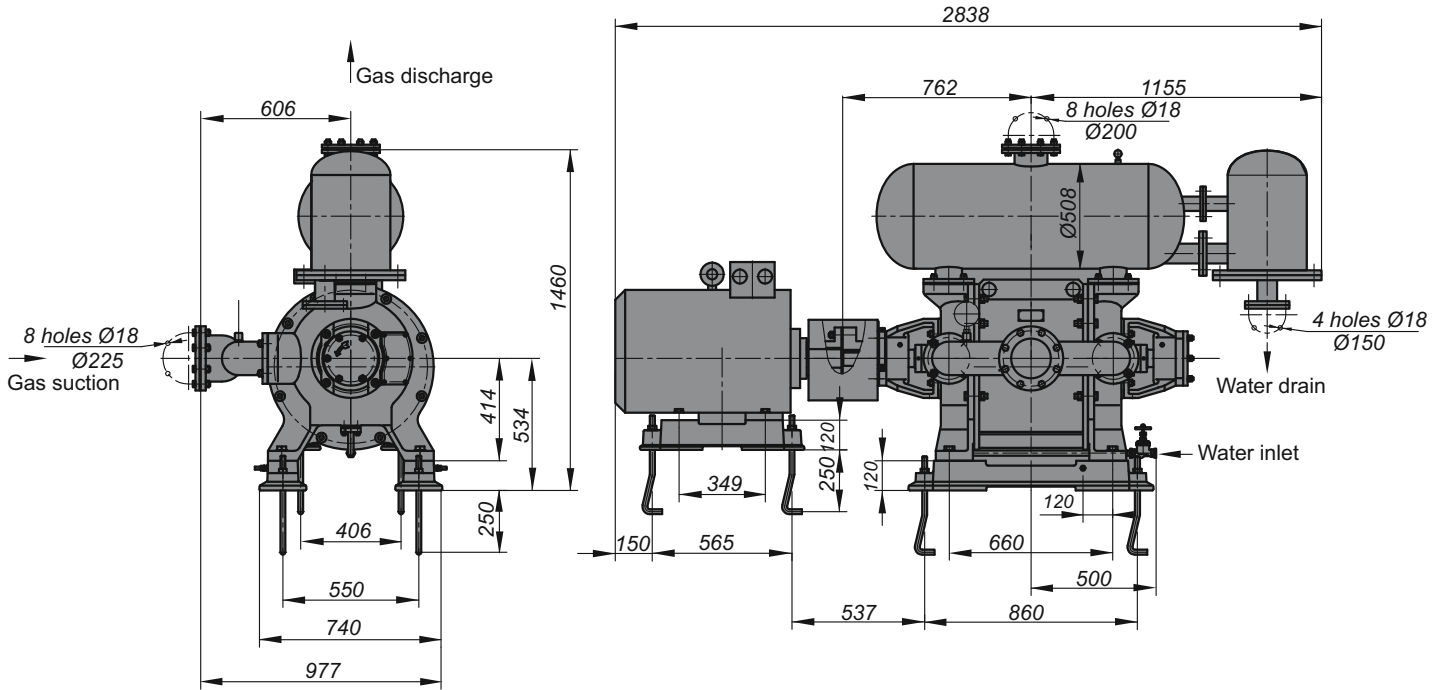
Without letter - carbon steel or gray cast iron;

M1 – number of modernization;

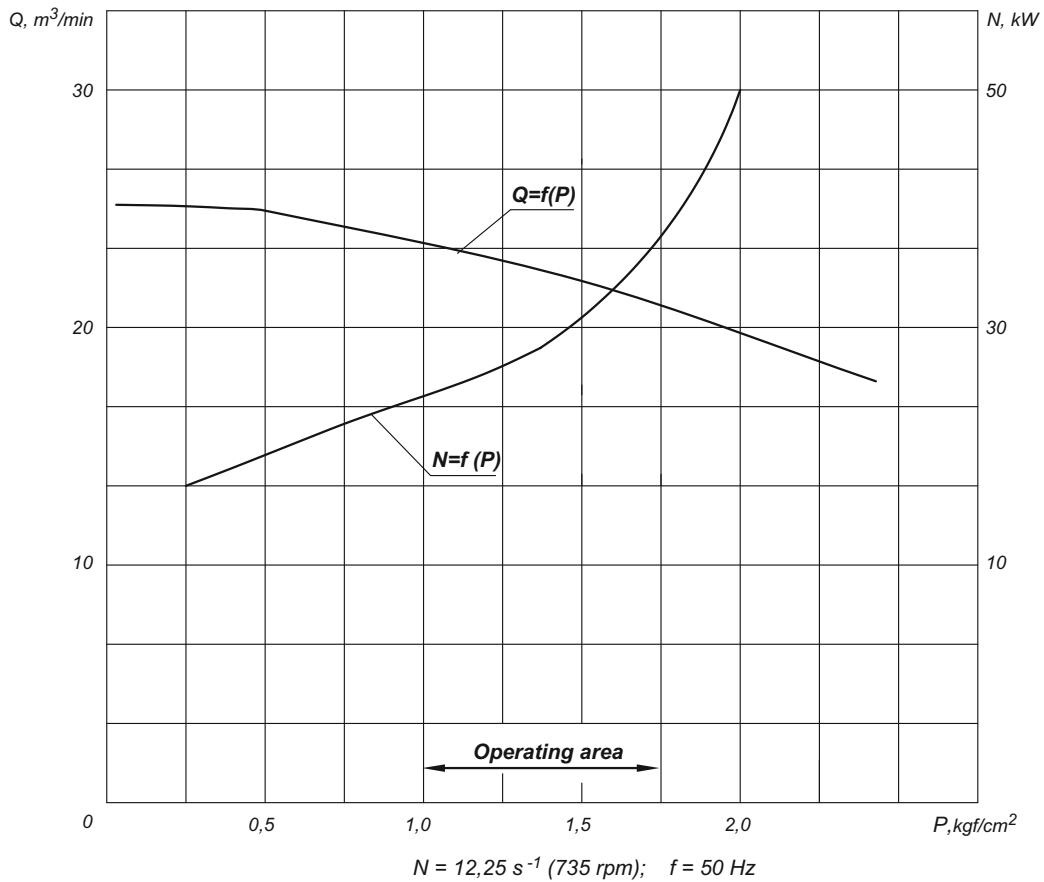
TU – specifications according to which the pumps are manufactured.

The Company improves the pumping equipment and equips pumping units with the motors of different manufactures. Thereby when ordering, please specify overall and mounting dimensions and required parameters according to the recommended form of Data Sheet.

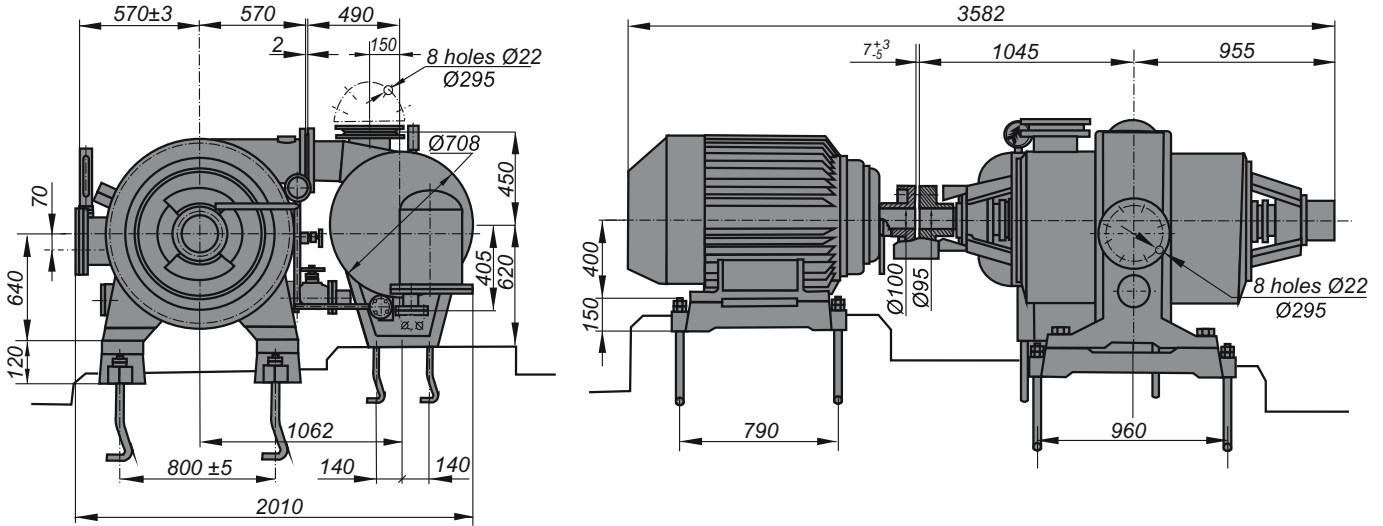
Dimensional drawing of VK-25/1.5 compressor



Performances and curves of VK-25/1.5 compressor

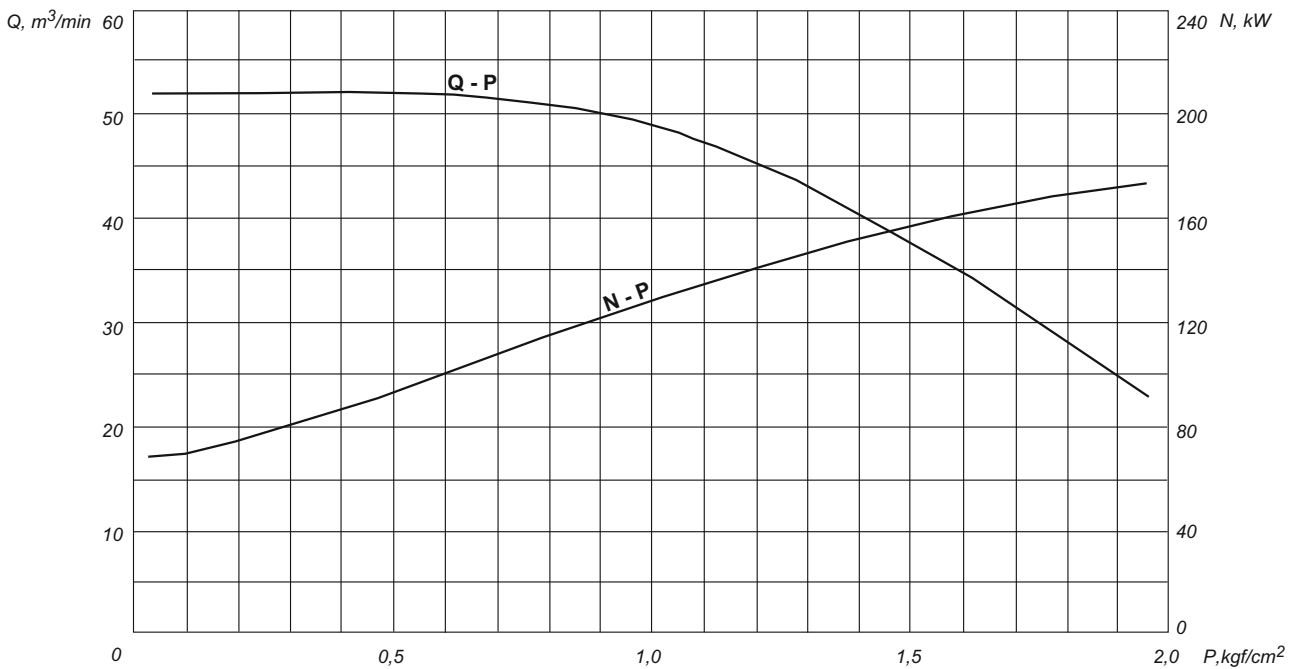


Dimensional drawing of VK-50 compressor

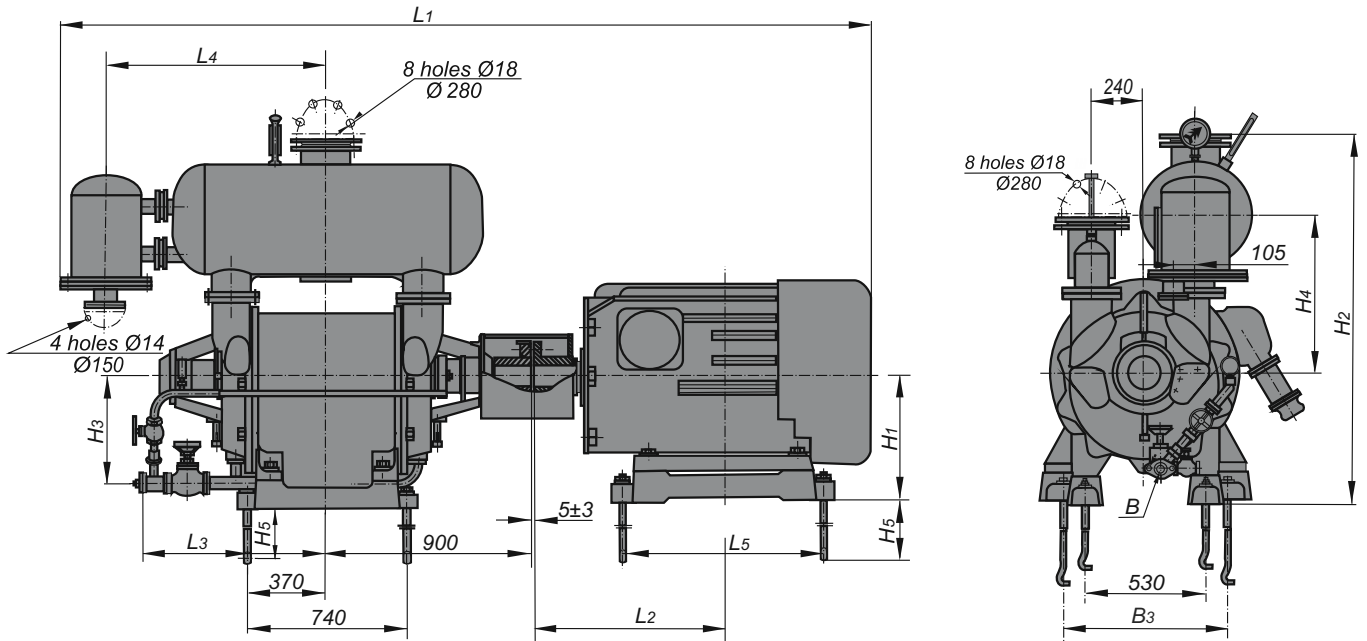


Motor			
Designation	kW	V	rpm
VAO2-355L10-U2,5	200	380/660	600

Performances and curves of VK-50 compressor



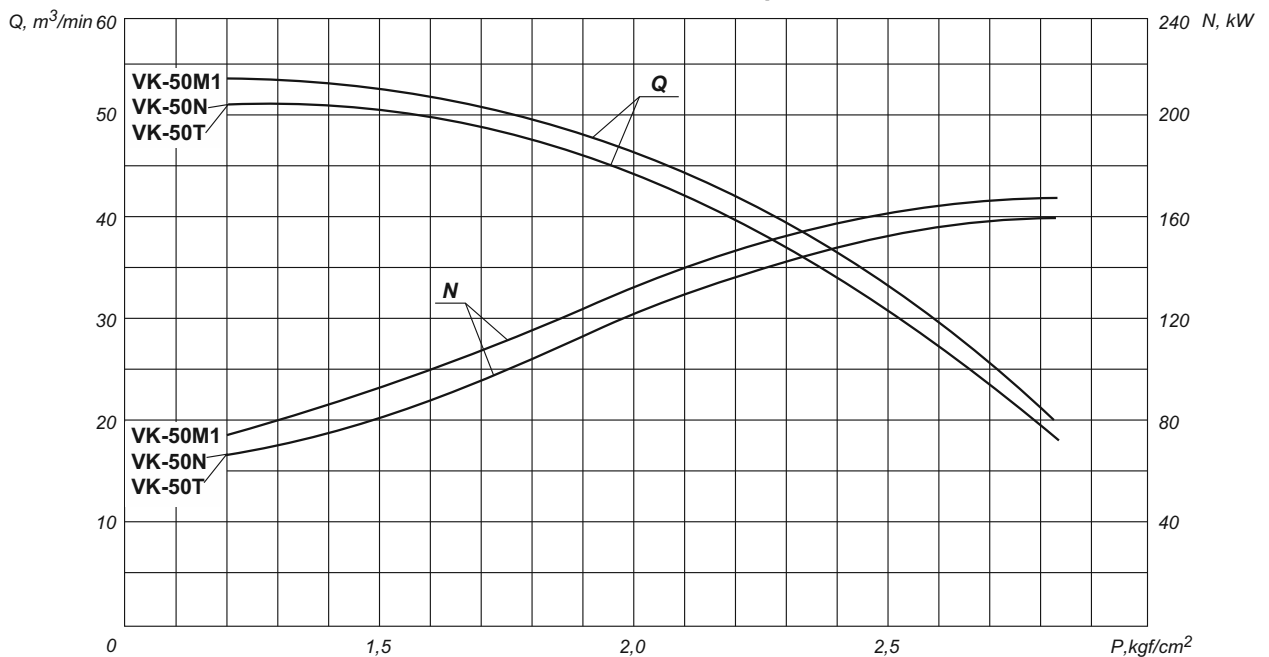
Dimensional drawing of compressors



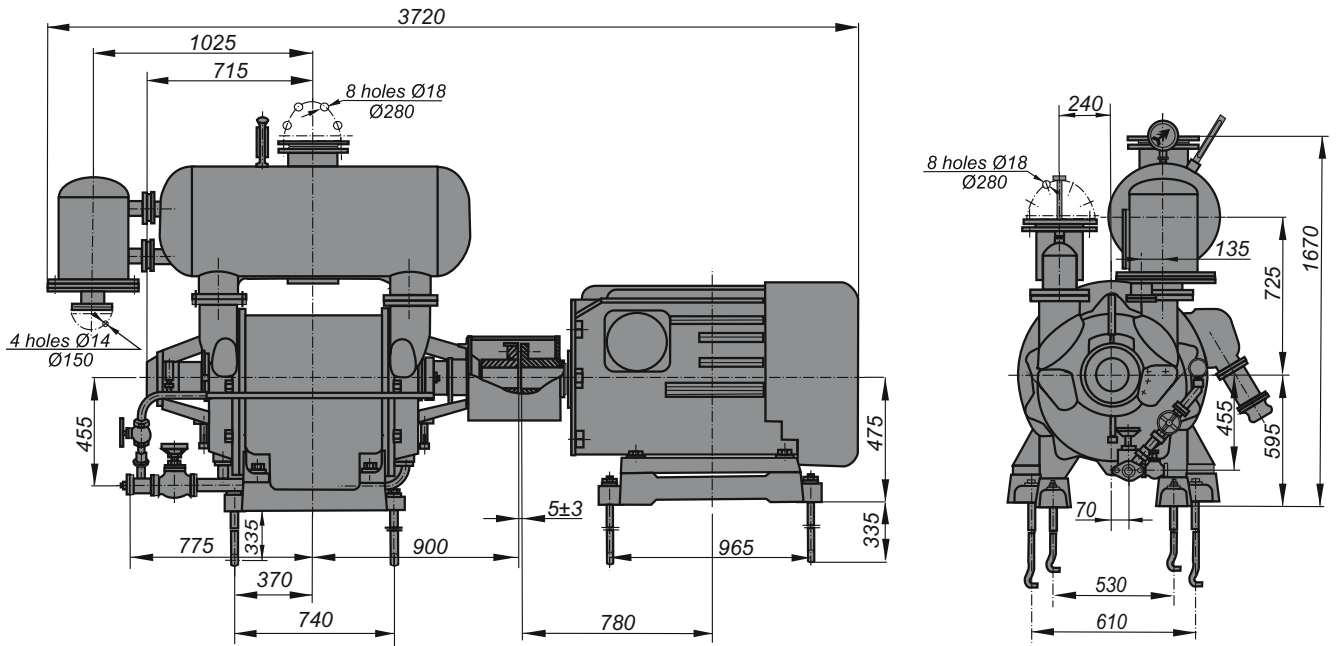
Compressors overall and connecting dimensions, weight

Designation	Dimensions, mm											B, mm		Weight, kg
	L1	L2	L3	L4	L5	H1	H2	H3	H4	H5	B3	Ø	n holes Ø	
VK-50M1	3400	860	775	1025	965	475	1670	455	725	335	610	102	2 отв.Ø18	4130
VK-50N	3285	780	945	1042	965	475	1675	450	715	400	610	125	4 отв.Ø18	3926
VK-50T	3285	780	945	975	965	475	1675	450	715	400	610	125	4 отв.Ø18	3410

Performances and curves of compressors

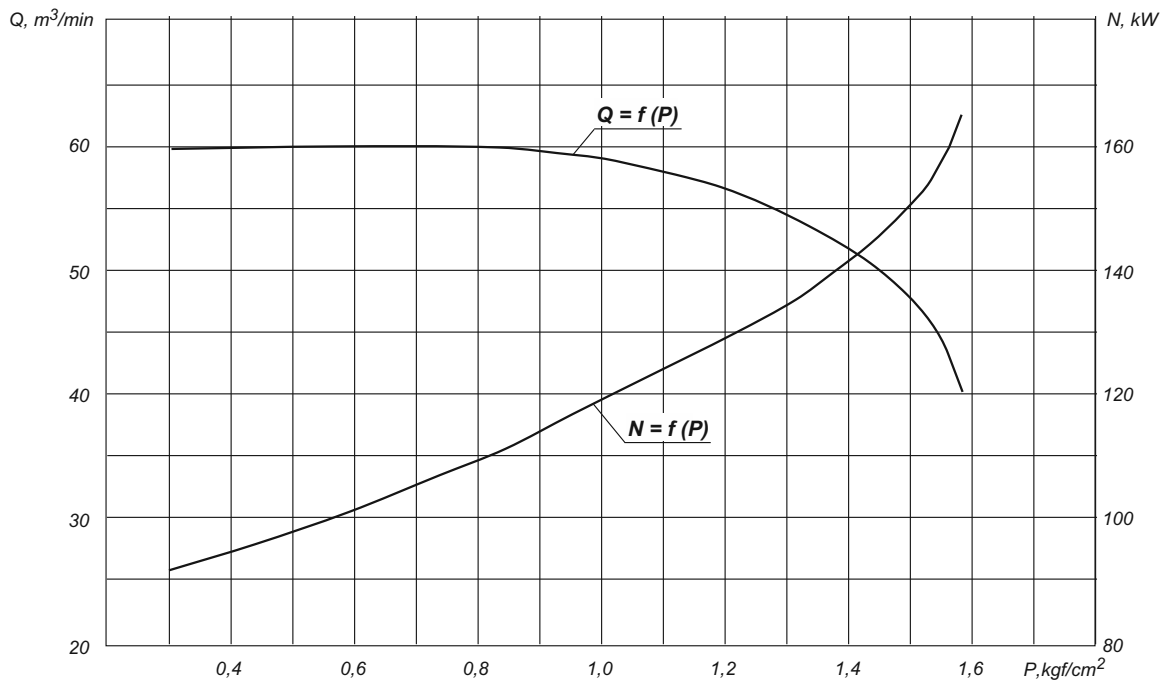


Dimensional drawing of VK-60/1.0 compressor

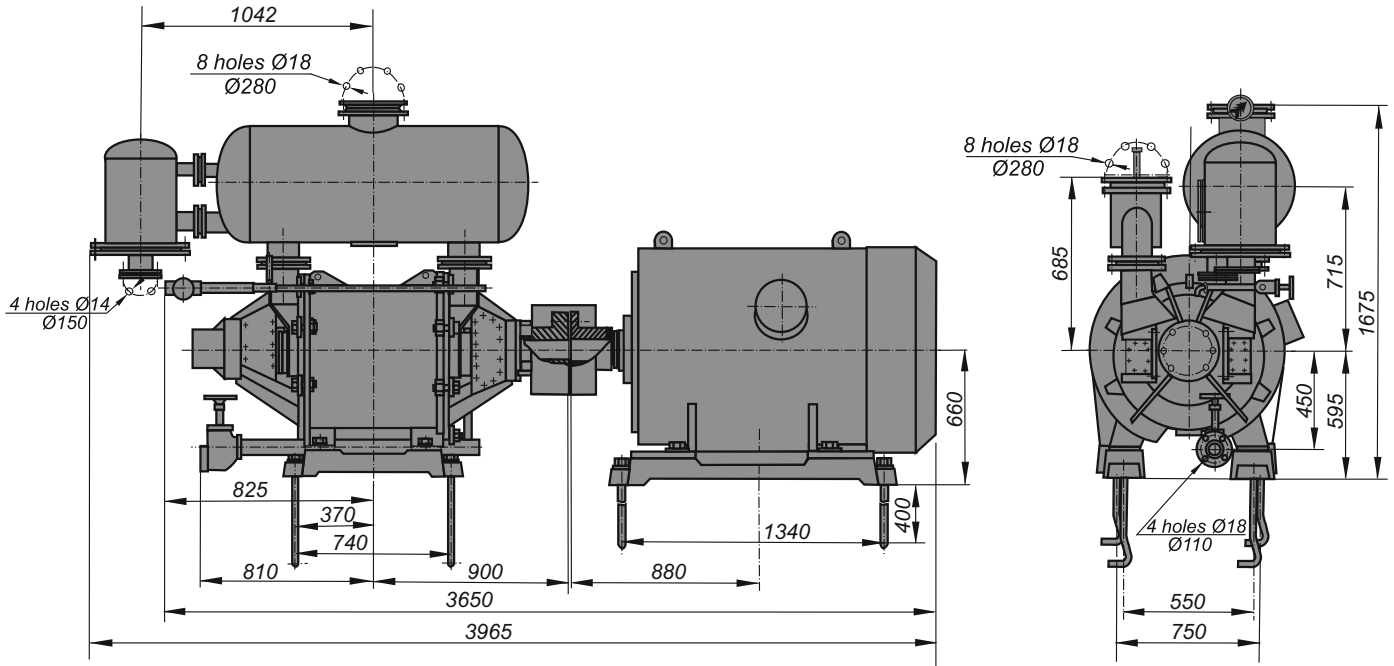


Motor			
Designation	kW	V	rpm
VAO3-355L-10UKhL4	200	380	590

Performances and curves of VK-60/1.0 compressor

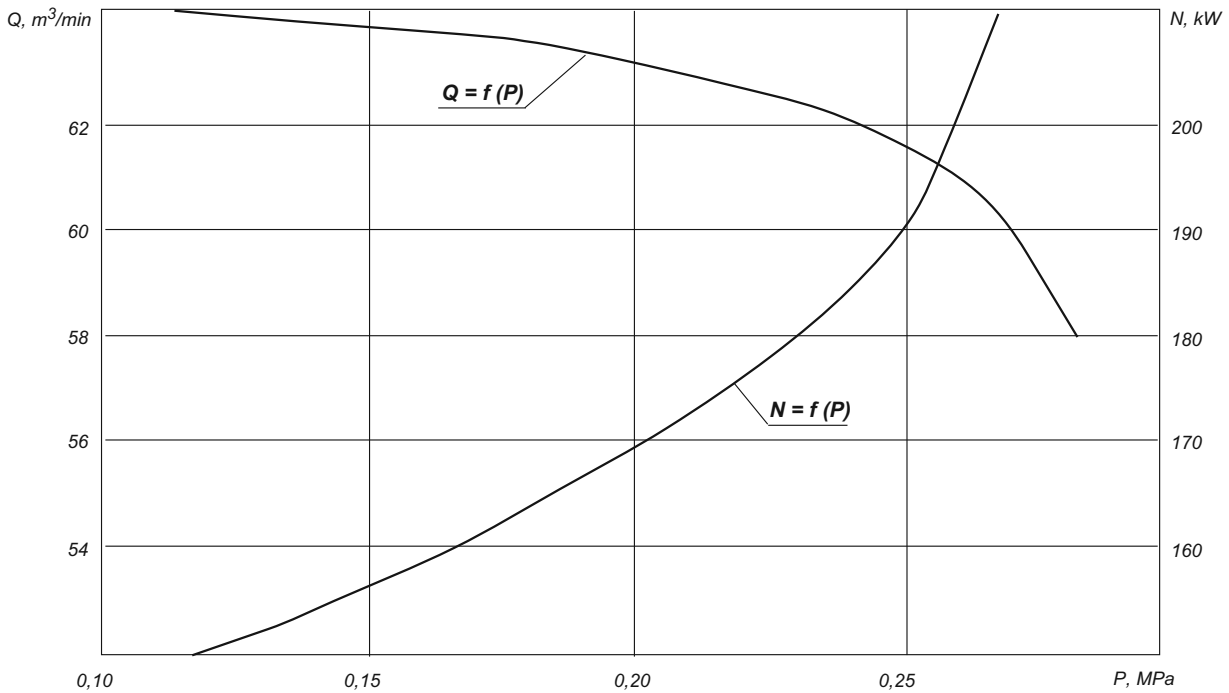


Dimensional drawing of VK-60/2.5N compressor

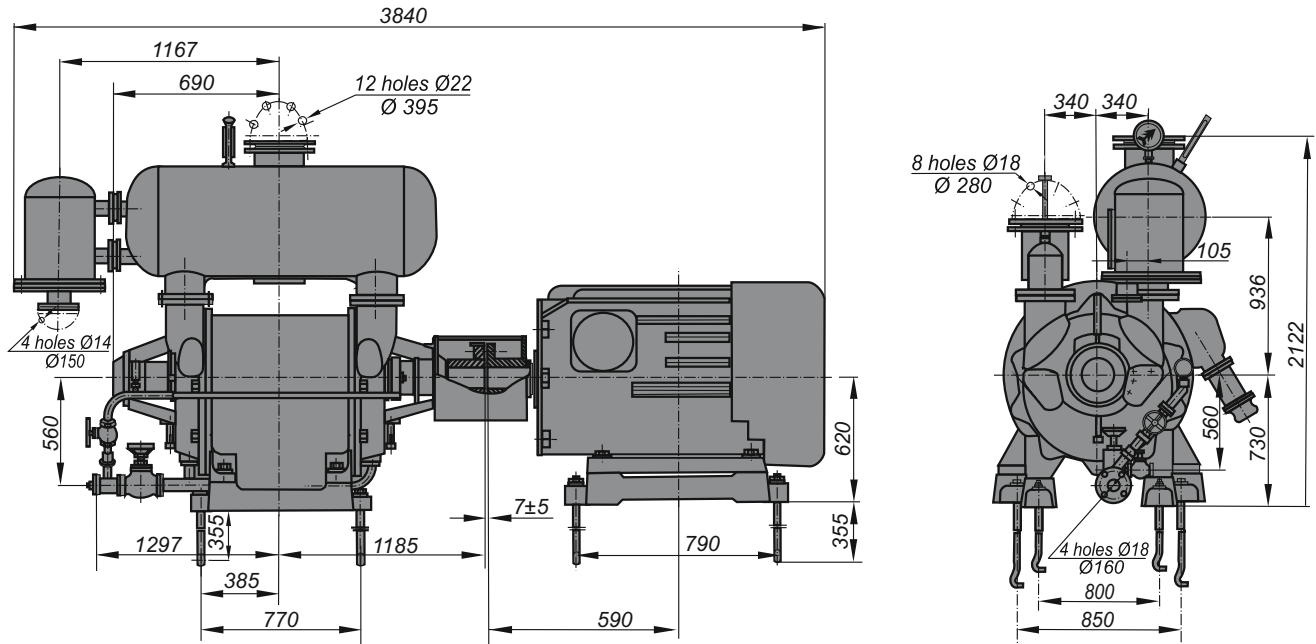


Motor			
Designation	kW	V	rpm
VAO4-450LA8U3	200	6000	750

Performances and curves of VK-60/2.5N compressor

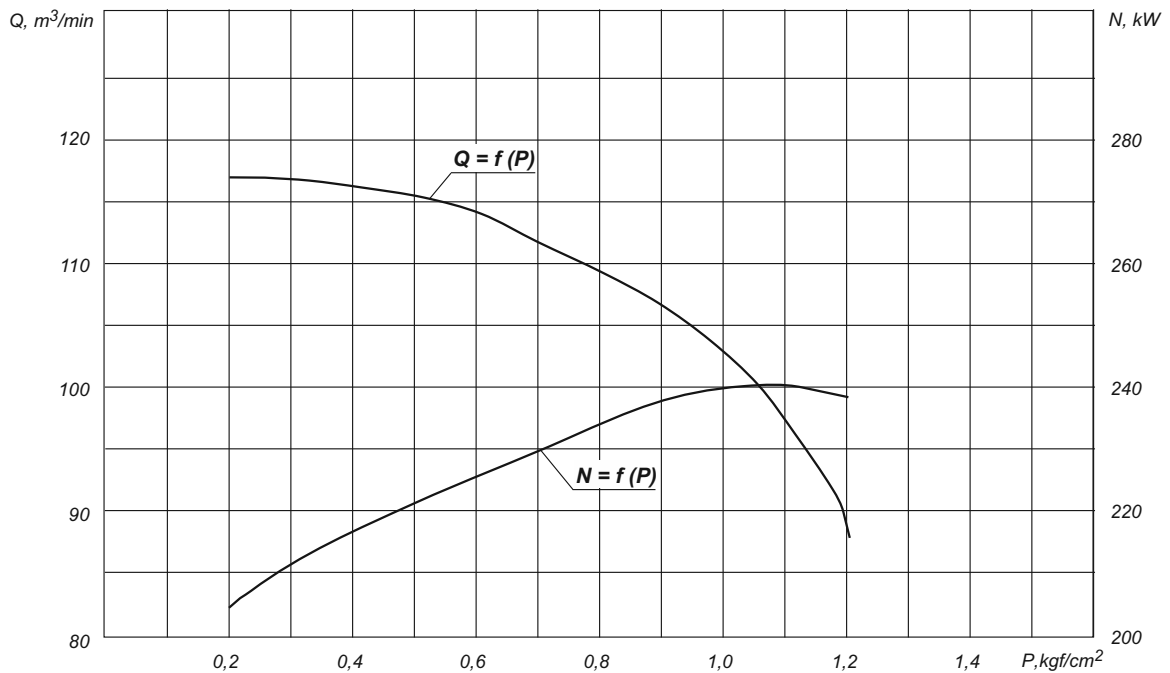


Dimensional drawing of VK-100/1.0 compressor

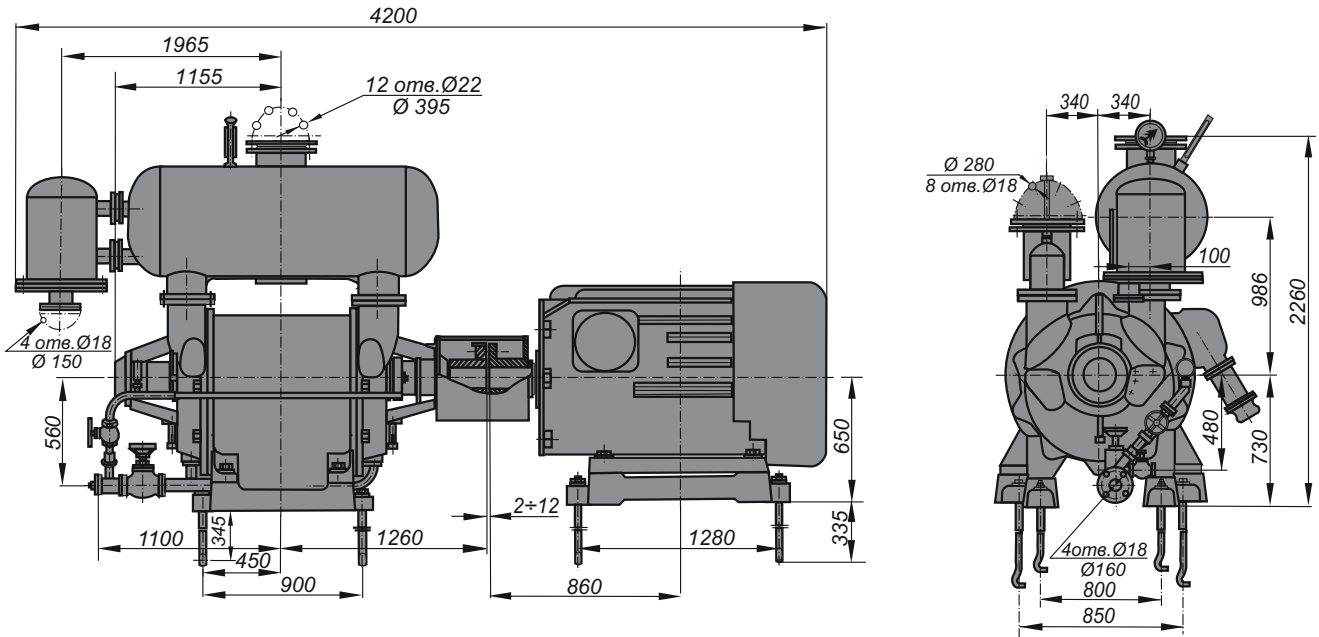


Motor			
Designation	kW	V	rpm
SD2-85/35-12U	250	380	500

Performances and curves of BK-100/1.0 compressor

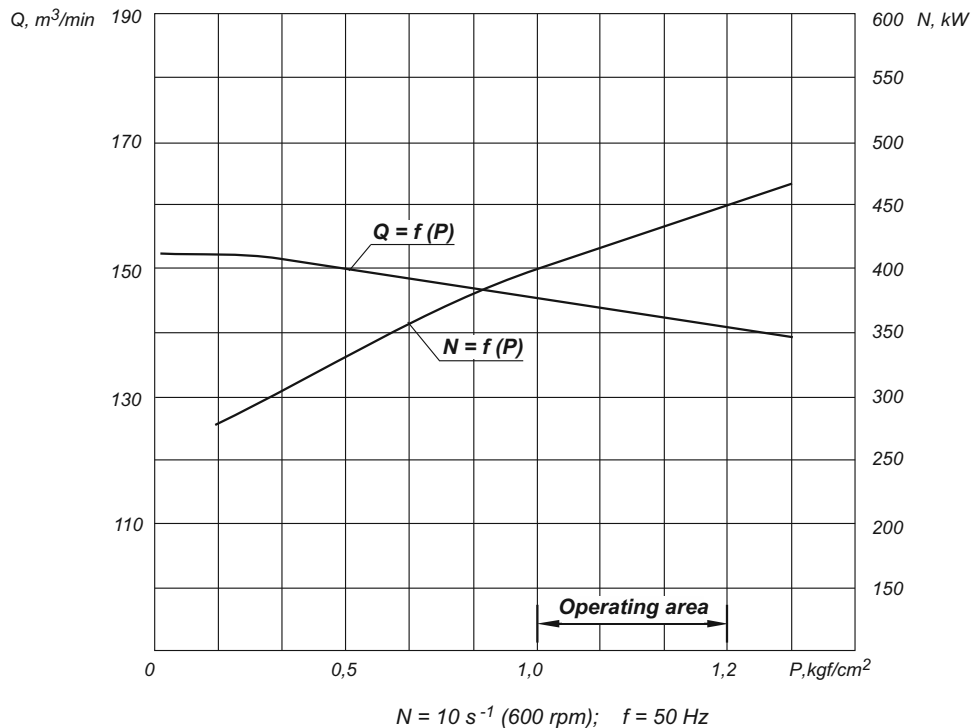


Dimensional drawing of VK-150/1.2N, VK-150/1.2 compressor

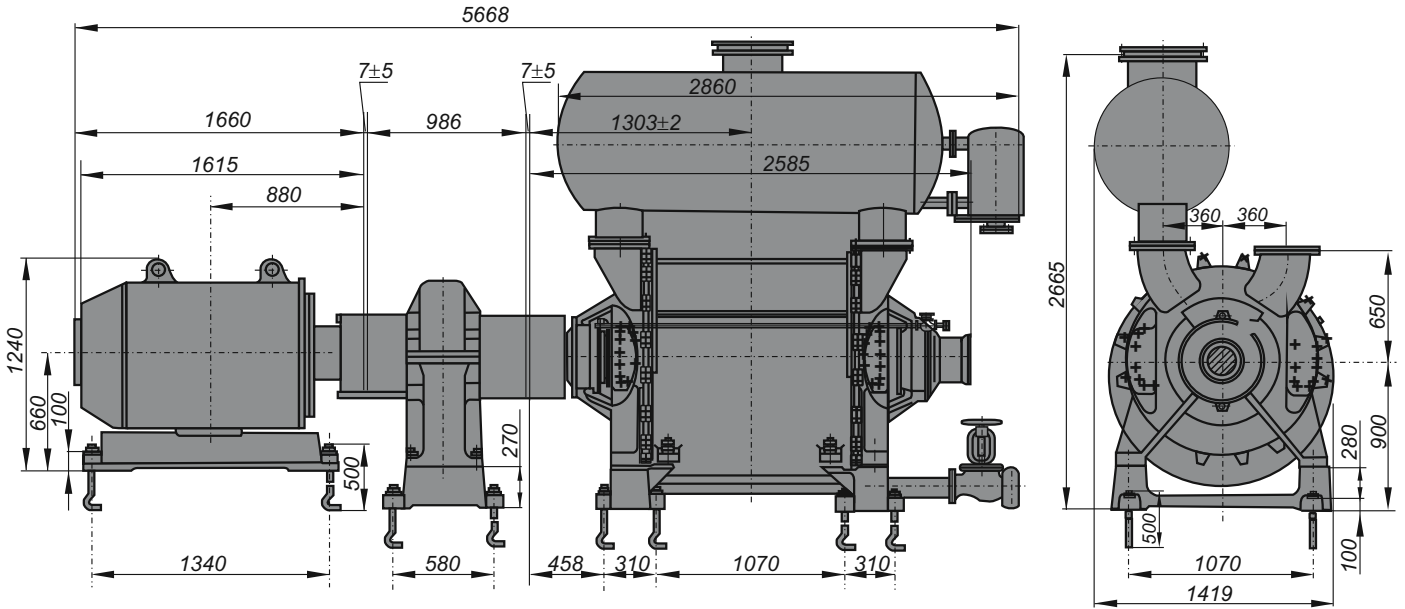


Motor			
Designation	kW	V	rpm
SD2-85/57-10UKhL4	500	6000	600

Performances and curves of VK-150/1.2N, VK-150/1.2 compressor



Dimensional drawing of VVK-150 liquid ring vacuum compressor



Motor			
Designation	kW	V	об/мин
VAO2-450LA-692	250	6000	985

Performances and curves of VVK-150 vacuum compressor

