VACMA

JSC "VACUUMMASH» 80 years

VACUUM EQUIPMENT FROM RUSSIA

JSC "VACUUMMASH» 80 years

"Vacuummash" JSC is the largest manufacturer in Russian Federation that produces vacuum equipment.

We carry out a full cycle of work - from the development to the manufacture and maintenance of vacuum equipment. Modern production, equipped with the most modern machines, allows us to produce high-quality and reliable vacuum equipment, which are known and appreciated by thousands of customers around the world.

We offer you the world's best oil diffusion and booster vacuum pumps **VDP - Vacma Diffusion Pumps**, **VDP Jet - Vacma Diffusion Pumps with Ejector stage** and **VBP – Vacma Oil Booster Pumps**, which have been supplied to Leybold Gmbh, Germany for more than 30 years, including Leybold Tianjin under the brand DIP, DIJ and OB. For 30 years we have supplied more than 20,000 pumps of various capacities and occupy a leading position in the world in their development and production. Our production facilities allow us to produce more than 1000 pumps of various capacities per year.

JSC "Vacuummash" offers you cooperation in the supply of diffusion and booster vacuum pumps of Russian production to the People 's Republic of China and Asian market. The best combination of price and quality and world-famous pumps allow us to achieve success.

Diffusion vacuum pumps work in conjunction with a pre-vacuum pump. The fore-vacuum pump is necessary for pre-pumping and for removing the pumped gas from the outlet pipe of the booster vacuum pump. As a rule, diffusion pumps are used with vacuum baffles that reduce the reverse flow of working fluid vapors into the pumped volume. Mineral or synthetic vacuum oil is used as the working fluid in the pump. VDP, VDP Jet diffusion pumps, VPD Booster pumps have several heaters, which increases the reliability of the pump and the stability of the technological process, since in the event of a possible failure of one of the heaters, the pump will retain its operability. The design of the heaters provides a quick pump output to the operating mode and easy replacement in case of failure without de-mounting the pump from the vacuum installation. An oil reflector is provided in the outlet pipe of the diffusion pump, which reduces the migration of vacuum oil into the forevacuum pump.

To control the operating parameters of the pump
and ensure protection, all series of pumps are equipped with:

- ✔ A contact pad for installing a temperature relay on the water cooling circuit;
- ✔ Socket for installing a temperature sensor (temperature control of the working fluid);
- ✔ Sight glass for monitoring the level of the working fluid.

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VDP Series
Oil Diffusion Pumps

Diffusion vacuum pumps of the VDP series are high vacuum pumps with a speed of action from 3000 l/s to 50,000 l/s and a ultimate pressure of up to 10^{-7} Torr

Scope of application

	VDP-250	VDP-400	VDP-500	VDP-630	VDP-800	VDP-1000
Food industry						
Sugar production						
Woodworking						
Pulp and paper production						
Petrochemical industry						
Chemical industry	■	■	■	■	■	■
Manufacture of rubber products						
Crystal production	■	■	■	■	■	■
Metallurgy	■	■	■	■	■	■
Mechanical engineering	■	■	■	■	■	■
Production of electrical equipment	■	■	■	■	■	■
Electricity generation						
Construction						
Research activities	■	■	■	■	■	■
Medicine						
Agricultural industry						
Mining	■	■	■	■	■	■
Waste treatment						

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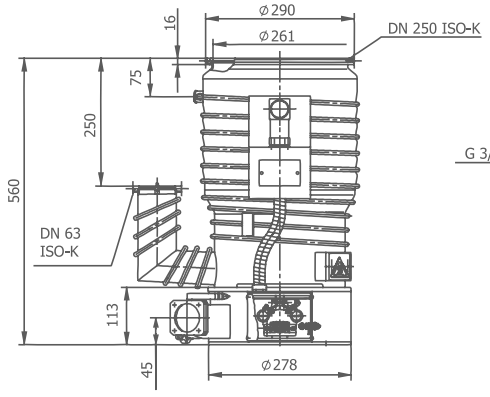
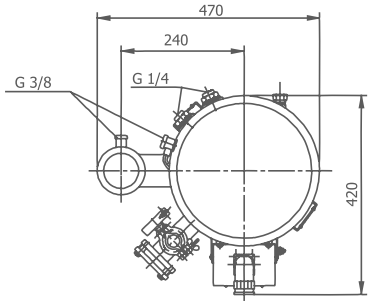
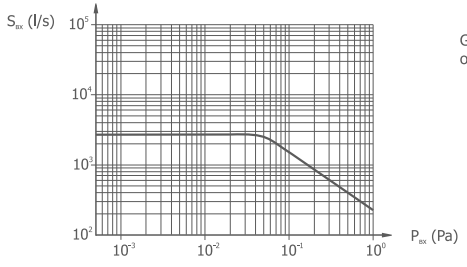
VDP-250
Oil Diffusion Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 2700 l/s

- High vacuum connection DN 250 ISO-K
- Forevacuum connection DN 63 ISO-K
- Carbon steel housing material, stainless steel bottom
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 40 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 220V
- Power 2.4kW
- Pump fluid filling, min / max, 1.0/1.4 l







Graph of the dependence of the speed of action from the pressure at the pump inlet

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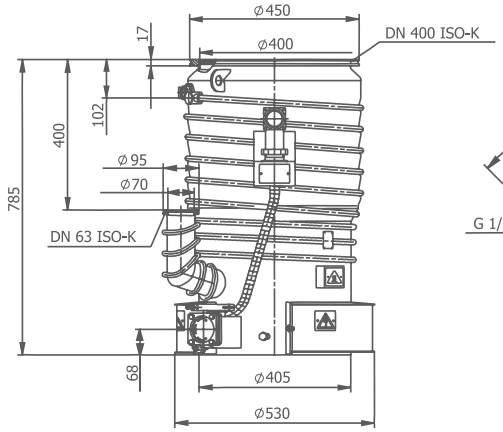
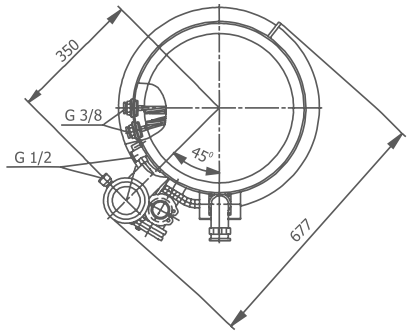
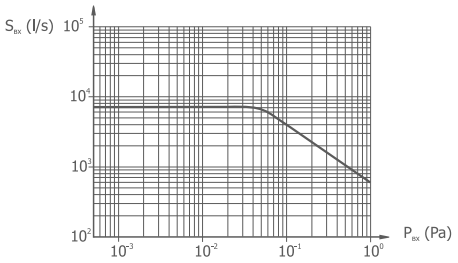
VDP-400
Oil Diffusion Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 7200 l/s

- High vacuum connection DN 400 ISO-K
- Forevacuum connection DN 63 ISO-K
- Carbon steel housing material, stainless steel bottom
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 101 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 220/380V
- Power 4.8kW
- Pump fluid filling, min / max, 1.7/3.4 l







Graph of the dependence of the speed of action from the pressure at the pump inlet

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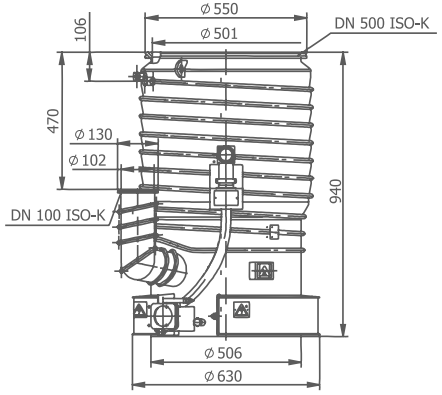
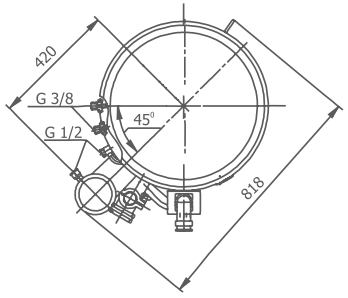
Oil Diffusion Pumps

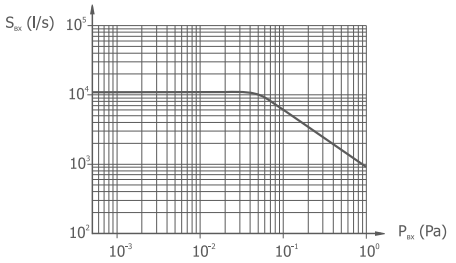
VDP-500
Oil Diffusion Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 10800 l/s

- High vacuum connection DN 500 ISO-K
- Forevacuum connection DN 100 ISO-K
- Carbon steel housing material, stainless steel bottom
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 153 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 220/380V
- Power 7.2kW
- Pump fluid filling, min / max, 2.4/5.3 l







Graph of the dependence of the speed of action from the pressure at the pump inlet

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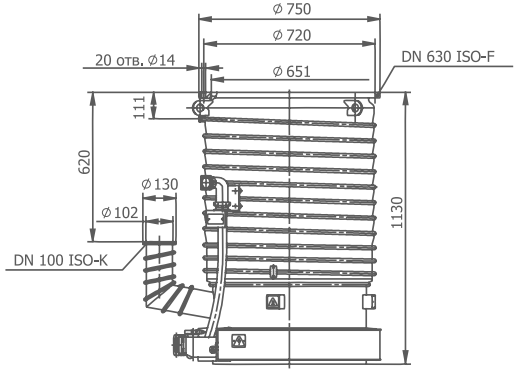
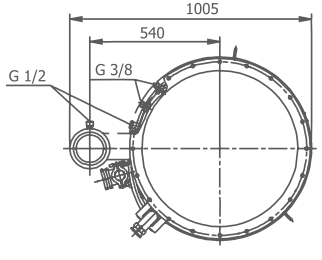
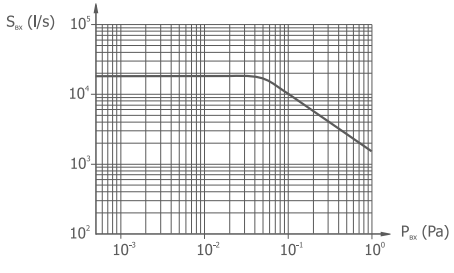
VDP-630
Oil Diffusion Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 18000 l/s

- High vacuum connection DN 630 ISO-F
- Forevacuum connection DN 100 ISO-K
- Carbon steel housing material, stainless steel bottom
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 253 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 220/380V
- Power 12 kW
- Pump fluid filling, min / max, 7.0/11.00 l







Graph of the dependence of the speed of action from the pressure at the pump inlet

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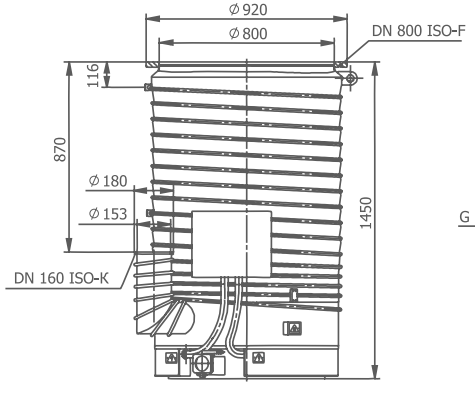
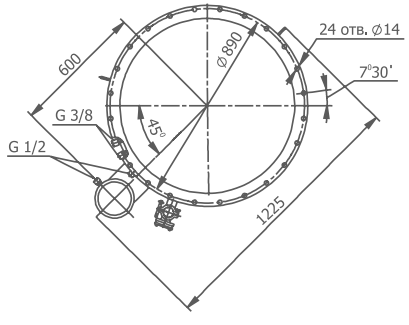
Oil Diffusion Pumps

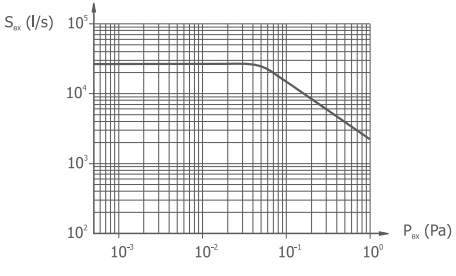
VDP-800
Oil Diffusion Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 27000 l/s

- High vacuum connection DN 800 ISO-F
- Forevacuum connection DN 160 ISO-K
- Carbon steel housing material, stainless steel bottom
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 378 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 220/380V
- Power 18 kW
- Pump fluid filling, min / max, 10.0/15.0 l







Graph of the dependence of the speed of action from the pressure at the pump inlet

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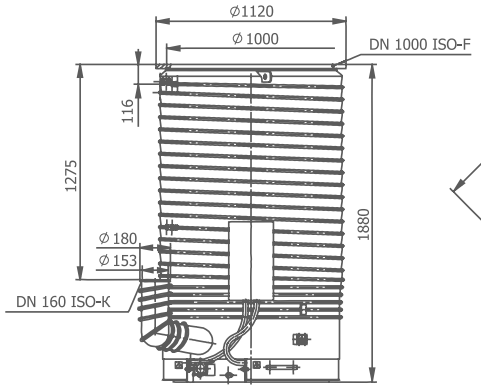
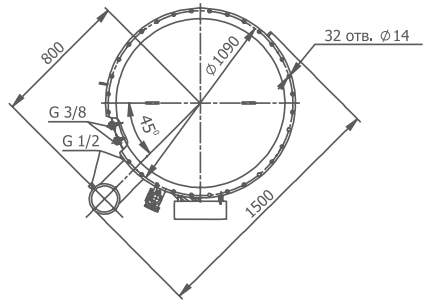
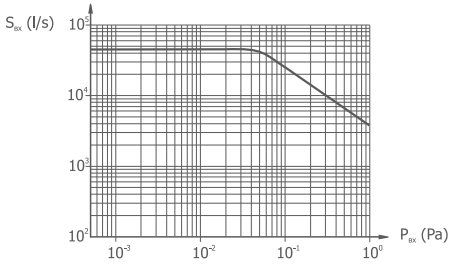
VDP-1000
Oil Diffusion Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 45000 l/s

- ✦ High vacuum connection DN 1000 ISO-F
- ✦ Forevacuum connection DN 160 ISO-K
- ✦ Carbon steel housing material, stainless steel bottom
- ✦ Water cooling
- ✦ Works only with the pre-vacuum pump
- ✦ The speed of action of the forevacuum pump is not less than 590 m3/h
- ✦ Type of electrical connection directly through the connector or a block of electric switches
- ✦ Supply voltage 220/380V
- ✦ Power 24 kW
- ✦ Pump fluid filling, min / max, 15.0/25.00 l







Graph of the dependence of the speed of action from the pressure at the pump inlet

JSC "VACUUMMASH» 80 years

Oil Diffusion Pumps

TECHNICAL SPECIFICATIONS

NAME OF THE PARAMETER	VDP-250	VDP-400	VDP-500	VDP-630	VDP-800	VDP-1000
Speed of action by air,l/s, not less, at pressure:						
- 1 Pa ($7.5x10^{-3}$ mm Hg.)	225	600	900	1500	2250	3500
- $1x10^{-1}$ Po ($7.5x10^{-4}$ mm Hg.)	1500	4000	6000	10000	15000	23000
- $1x10^{-2}$ Pa ($7.5x10^{-5}$ mm Hg.)	2700	7200	10800	18000	27000	45000
Maximum exhaust pressure, Pa (mm Hg),not less	26,6 (0,2)					
Maximum residual pressure at ambient temperature from +10 °C to +35 °C, Pa (mm Hg),no more	$3x10^{-4}$ ($2,25x10^{-6}$)					
Supply voltage, V	220±10 %	220/380±10 %				
Power consumption, kW	2,4	4,8	7,2	12	18	24
Amount of working fluid, l:						
- max	2,4	5,6	9,4	12	14,6	24
- min	2,0	4,5	8,0	9,5	12,4	19
Cooling water consumption, l/h:						
- on the body	160	250	500	600	900	1500
- on the oil reflector	20	40	50	80	120	150
Weight, kg, no more *	28	58	92	180	300	410
Overall dimensions, mm, no more **						
- height	560	785	940	1130	1450	1880
- length	470	677	818	1005	1225	1500
- width	420	530	630	750	920	1120

NOTE:
* Without plugs, parts of their fastening and working fluid.
** Without plugs and parts of their fastening.

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VDP Jet Series
Oil Diffusion Pumps with Ejector stage

Diffusion vacuum pumps of the VDP Jet series are high-vacuum pumps with a speed of action from 2800 l/s to 28000 l/s and ultimate pressure up to $5x10^{-7}$ Torr. Thanks to the additional ejector stage, the VDP Jet pump starts working from a pressure of 10^{-2} Torr and is capable of pumping large gas flows up to 37l*torr/s in the case of using silicone vacuum oil.

Scope of application

	VDP Jet-320	VDP Jet-500	VDP Jet-630	VDP Jet-800	VDP Jet-1000
Food industry					
Sugar production					
Woodworking					
Pulp and paper production					
Petrochemical industry					
Chemical industry	■	■	■	■	■
Manufacture of rubber products					
Crystal production	■	■	■	■	■
Metallurgy	■	■	■	■	■
Mechanical engineering	■	■	■	■	■
Production of electrical equipment	■	■	■	■	■
Electricity generation					
Construction					
Research activities	■	■	■	■	■
Medicine					
Agricultural industry					
Mining	■	■	■	■	■
Waste treatment					

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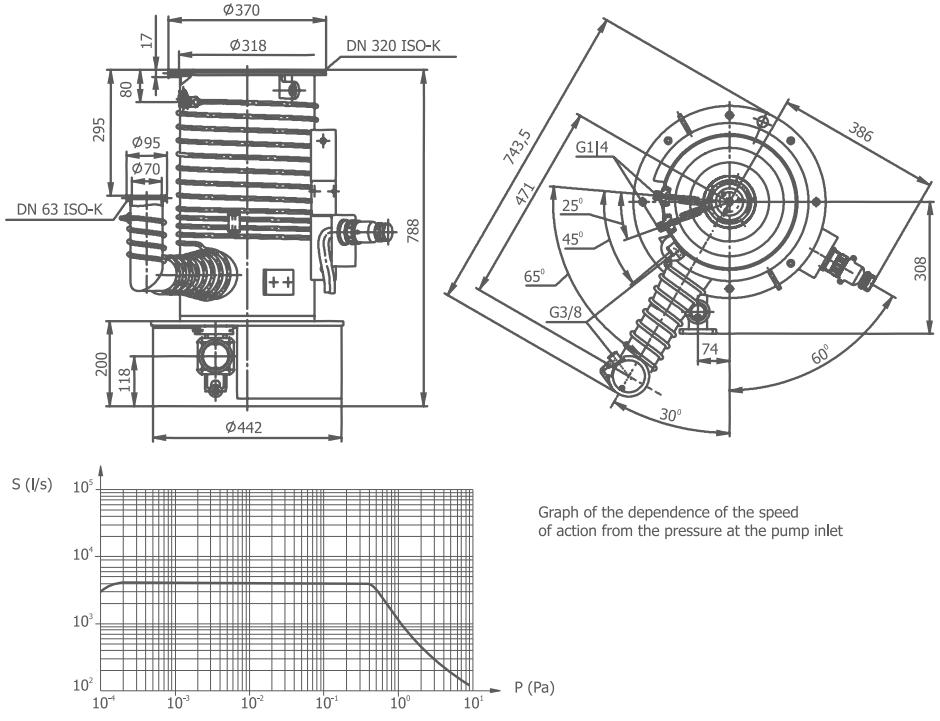
Oil Diffusion Pumps with Ejector stage

VDP Jet-320
Oil Diffusion Pump with Ejector stage

Type: Oil
Pressure range: high vacuum
Speed of action: 3000 l/s

- High vacuum connection DN 320 ISO-K
- Forevacuum connection DN 63 ISO-K
- The case is made of carbon steel
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 324 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 2,4 kW
- Pump fluid filling, min / max, 1.0/1.4 l



Graph of the dependence of the speed of action from the pressure at the pump inlet

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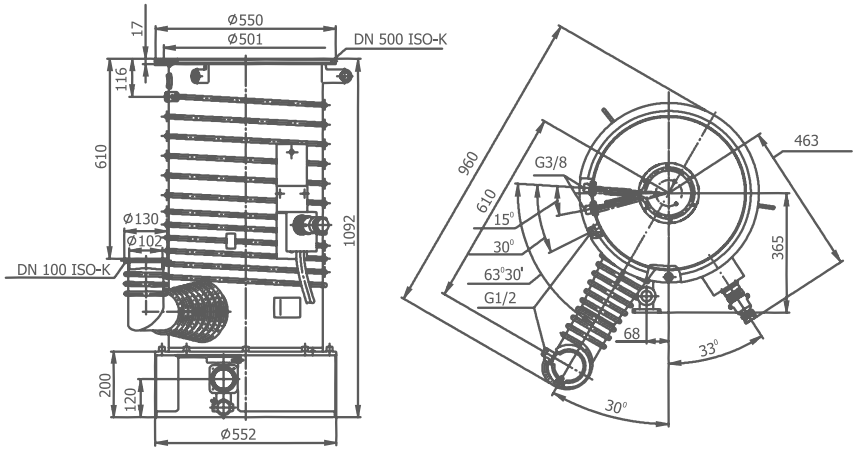
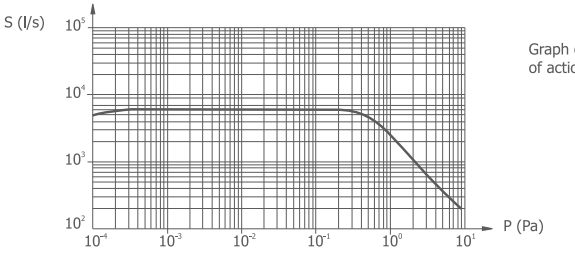
VDP Jet-500
Oil Diffusion Pump with Ejector stage

Type: Oil
Pressure range: high vacuum
Speed of action: 6000 l/s

- High vacuum connection DN 500 ISO-K
- Forevacuum connection DN 100 ISO-K
- The body is made of carbon steel
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 396 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 7.2kW
- Pump fluid filling, min / max, 1.7/3.4 l





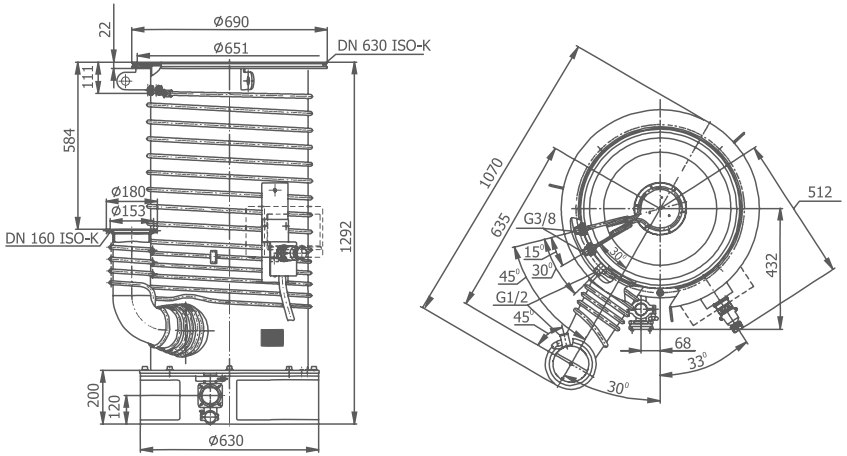
Graph of the dependence of the speed of action from the pressure at the pump inlet

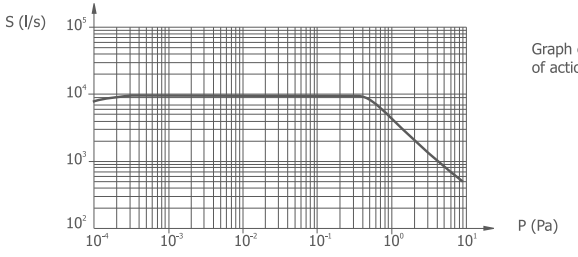
VACMA
JSC "VACUUMMASH» 80 years
Oil Diffusion Pumps with Ejector stage

VDP Jet-630
Oil Diffusion Pump with Ejector stage

Type: Oil
Pressure range: high vacuum
Speed of action: 9200 l/s

- High vacuum connection DN 630 ISO-K
- Forevacuum connection DN 160 ISO-K
- The body is made of carbon steel
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 540 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 10.8kW
- Pump fluid filling, min / max, 5.0/7.0 l



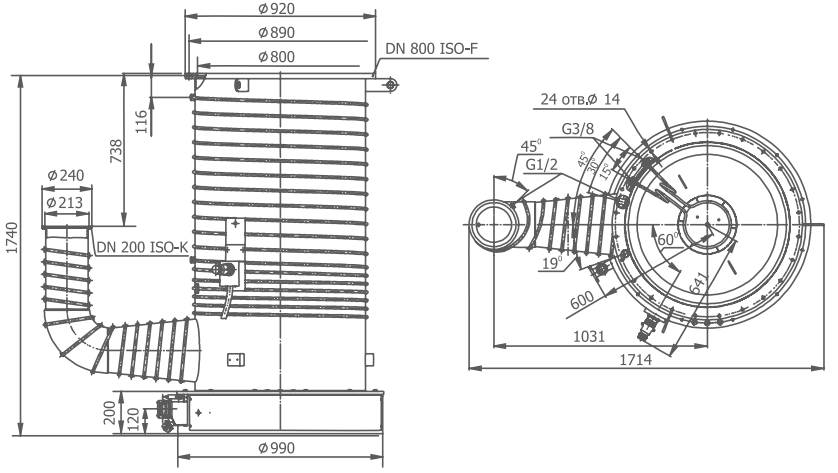


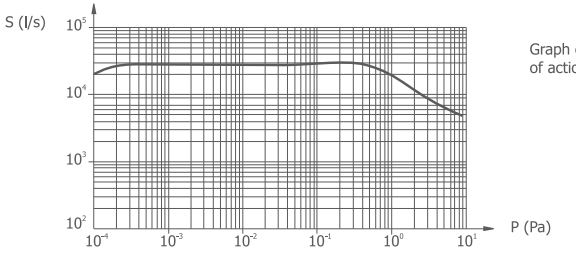
Graph of the dependence of the speed of action from the pressure at the pump inlet

VDP Jet-800
Oil Diffusion Pump with Ejector stage

Type: Oil
Pressure range: high vacuum
Speed of action: 20000 l/s

- High vacuum connection DN 800 ISO-F
- Forevacuum connection DN 200 ISO-K
- The body is made of carbon steel
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 1332 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 18 kW
- Pump fluid filling, min / max, 10.0/15.0 l





Graph of the dependence of the speed of action from the pressure at the pump inlet

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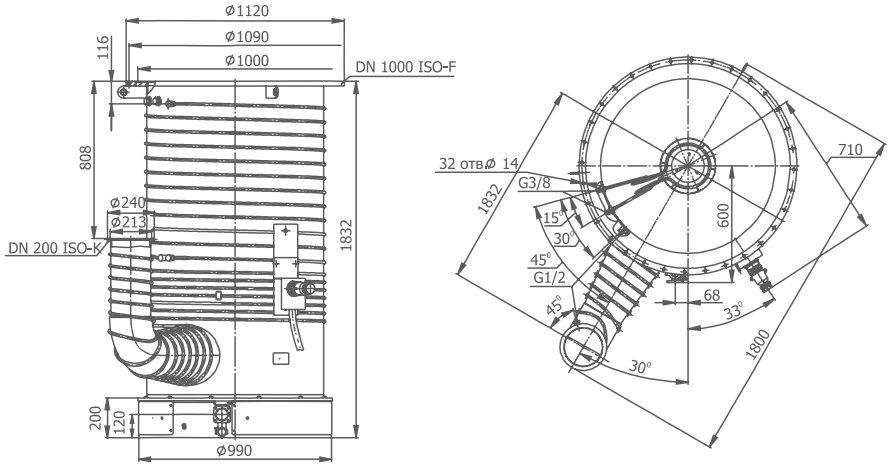
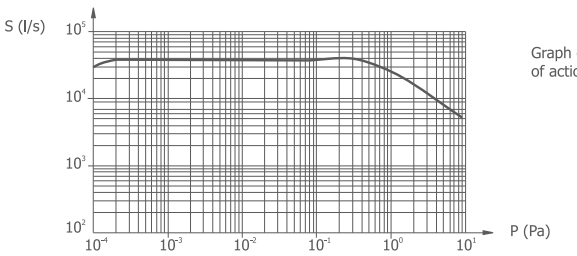
Oil Diffusion Pumps with Ejector stage

VDP Jet-1000
Oil Diffusion Pump with Ejector stage

Type: Oil
Pressure range: high vacuum
Speed of action: 28000 l/s

- High vacuum connection DN 1000 ISO-F
- Forevacuum connection DN 200 ISO-K
- The body is made of carbon steel
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 1332 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 21.6kW
- Pump fluid filling, min / max, 12.0/18.0 l





Graph of the dependence of the speed of action from the pressure at the pump inlet

TECHNICAL SPECIFICATIONS

NAME OF THE PARAMETER	VDP Jet-320	VDP Jet-500	VDP Jet-630	VDP Jet-800	VDP Jet-1000
Speed of action by air at a pressure of m^3/h (l/s),not less than:					
1.0 Mpa (7.5×10^{-3} mm Hg),	2880 (800)	5400 (1500)	6480 (1800)	14040 (3900)	12600 (3500)
2.6×10^{-1} Pa (2×10^{-3} mm Hg),	10800 (3000)	18000 (5000)	-	-	-
2.3×10^{-1} Pa (1.7×10^{-3} mm Hg)	-	-	-	53280 (14800)	-
1.7×10^{-1} Pa (1.3×10^{-3} mm Hg)	-	-	33120 (9200)	-	-
11.2×10^{-1} Pa (9.0×10^{-4} mmHg)	-	-	-	-	99000 (27500)
11.0×10^{-1} Pa (7.5×10^{-4} mm Hg)	9000 (2500)	21600 6000)	29880 (8300)	72000 (20000)	100800 (28000)
11.0×10^{-2} Pa (7.5×10^{-5} mm Hg)	8100 (2250)	18360 (5100)	25560 (7100)	68400 (19000)	93600 (26000)
Maximum exhaust pressure, Pa (mm Hg), not less	53 (0,40)	47 (0,35)	60 (0,45)	40 (0,30)	
Maximum residual pressure, Pa (mm Hg), no more	$2{,}5 \times 10^{-4}$ ($1{,}9 \times 10^{-6}$)				
The rate of tightness, Pa · m^3/c, (l *mm Hg/c), no more	$1{,}0 \times 10^{-10}$ ($7{,}5 \times 10^{-7}$)				
Supply voltage, V	400 ± 40 *				
Weight, kg, no more**	95	152	230	570	610
Overall dimensions, mm, no more*** - height - length - width	788 744 422	1092 960 552	1292 1070 630	1740 1714 990	1832 1800 990

NOTE:
* At the request of the customer, a supply voltage of 380 ± 38 V can be provided.
** Without plugs, their fastening parts and working fluid.
*** Without plugs and their fastening parts.

VACMA
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Oil Diffusion Pumps with Ejector stage

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VBP Series
Oil Booster Pumps

Oil Booster vacuum pumps VBP are medium vacuum pumps with a speed of action from 880 l/s to 18600 l/s and a maximum pumping speed at a pressure of $5x10^{-1}$-10^{-3} Torr

Booster vacuum pumps VBP have a modular design, which makes it possible to produce a compact high-performance pump. Thanks to the increased boiler and the increased power of the heaters, it is possible to obtain an increased vapor density, which allows pumping large gas flows at pressures up to 10^{-1} Torr.

Scope of application

	VBP-160/1000	VBP-250/3000	VBP-400/6000	VBP-500/12000	VBP-630/12000	VBP-630/18000
Food industry						
Sugar production						
Woodworking						
Pulp and paper production						
Petrochemical industry	■	■	■	■	■	■
Chemical industry						
Manufacture of rubber products						
Crystal production						
Metallurgy	■	■	■	■	■	■
Mechanical engineering	■	■	■	■	■	■
Production of electrical equipment	■	■	■	■	■	■
Electricity generation						
Construction	■	■	■	■	■	■
Research activities	■	■	■	■	■	■
Medicine						
Agricultural industry						
Mining						
Waste treatment						

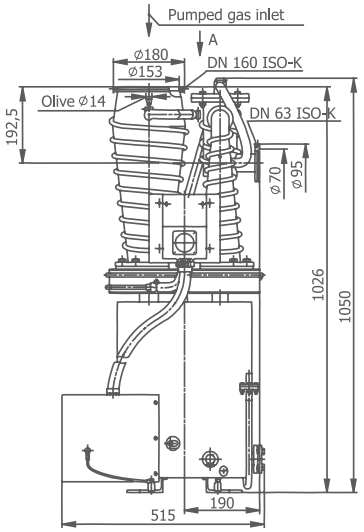
JSC "VACUUMMASH» 80 years

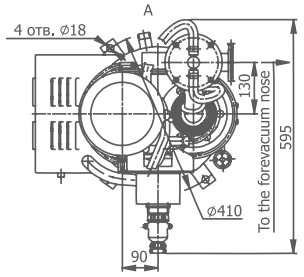
Oil Booster Pumps

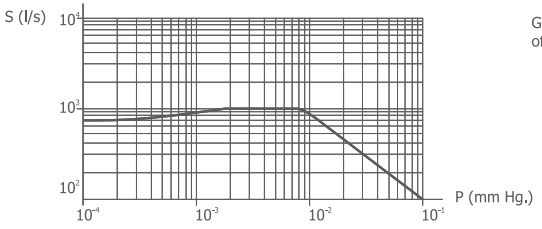
VBP-160/1000
Oil Booster Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 880 l/s

- High vacuum connection DN 160 ISO-K
- Forevacuum connection DN 63 ISO-K
- Carbon steel housing material
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 54 m3/h
- Type of electrical connection directly through the connector
- Supply voltage 380V
- Power 2 kW
- Pump fluid filling, min / max, 1.0/1.4 l







Graph of the dependence of the speed of action from the pressure at the pump inlet

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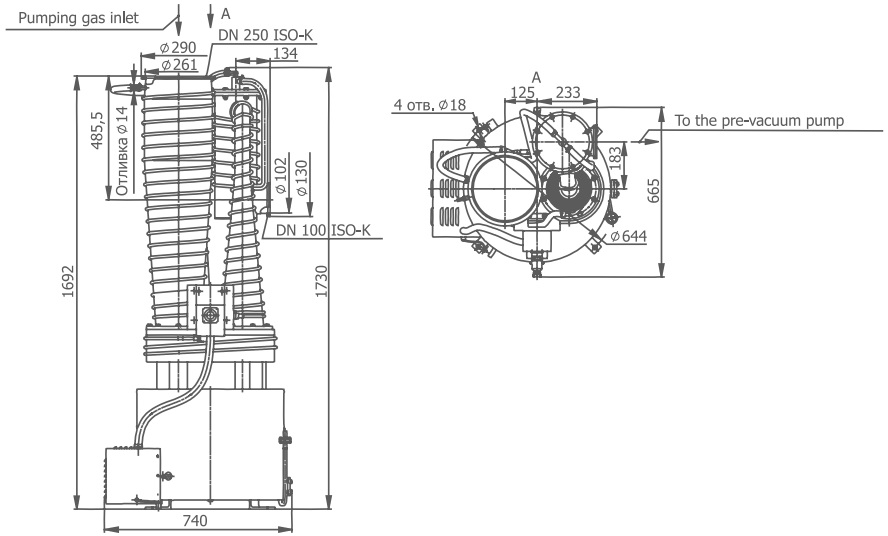
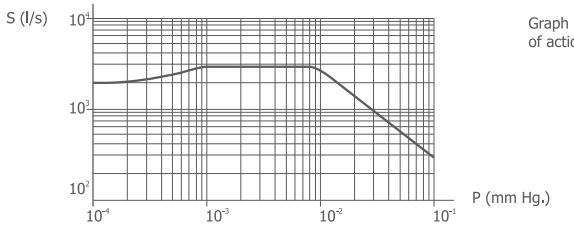
VBP-250/3000
Oil Booster Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 2800 l/s

- High vacuum connection DN 250 ISO-K
- Forevacuum connection DN 100 ISO-K
- Carbon steel housing material
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 90 m3/h
- Type of electrical connection directly through the connector
- Supply voltage 380V
- Power 6 kW
- Pump fluid filling, min / max, 1.0/1.4 l





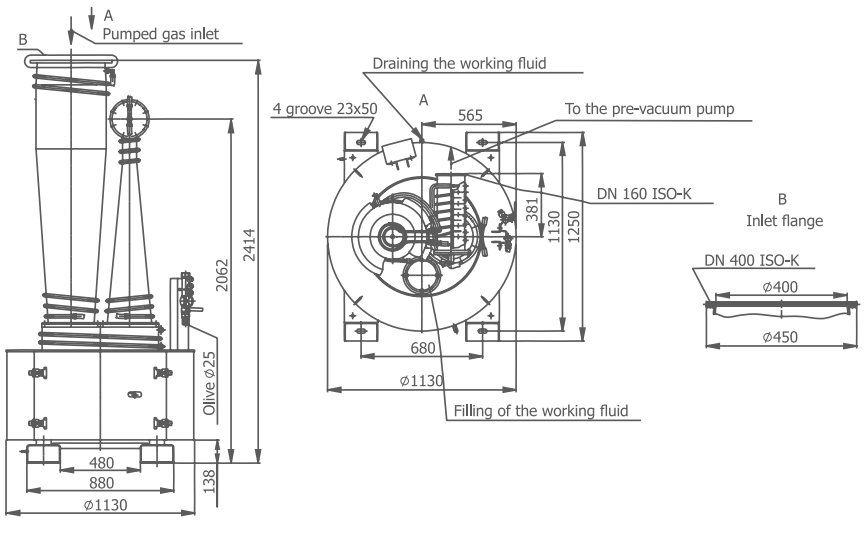
Graph of the dependence of the speed of action from the pressure at the pump inlet

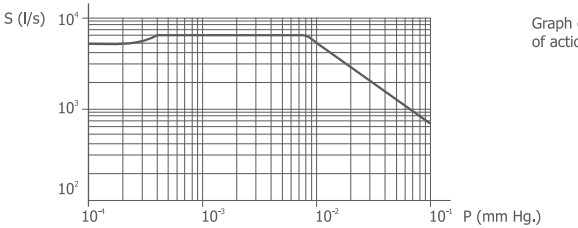
VACMA
JSC "VACUUMMASH» 80 years
Oil Booster Pumps

VBP-400/6000
Oil Booster Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 6200 l/s

- High vacuum connection DN 400 ISO-K
- Forevacuum connection DN 160 ISO-K
- Carbon steel housing material
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 180 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 12 kW
- Pump fluid filling, min / max, 1.0/1.4 l





Graph of the dependence of the speed of action from the pressure at the pump inlet

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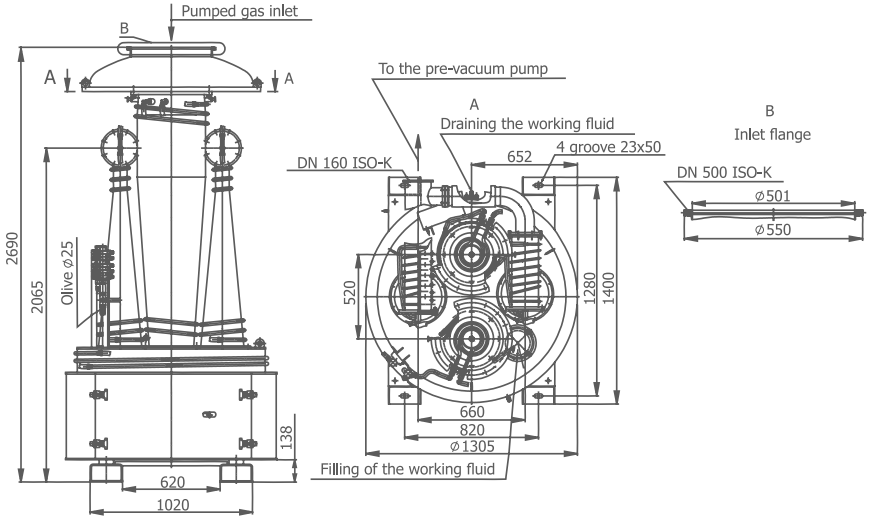
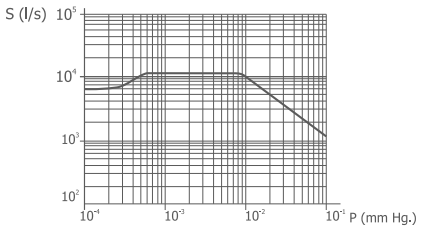
VBP-500/12000
Oil Booster Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 10000 l/s

- High vacuum connection DN 500 ISO-K
- Forevacuum connection DN 160 ISO-K
- Carbon steel housing material
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 288 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 24 kW
- Pump fluid filling, min / max, 1.0/1.4 l





Graph of the dependence of the speed of action from the pressure at the pump inlet

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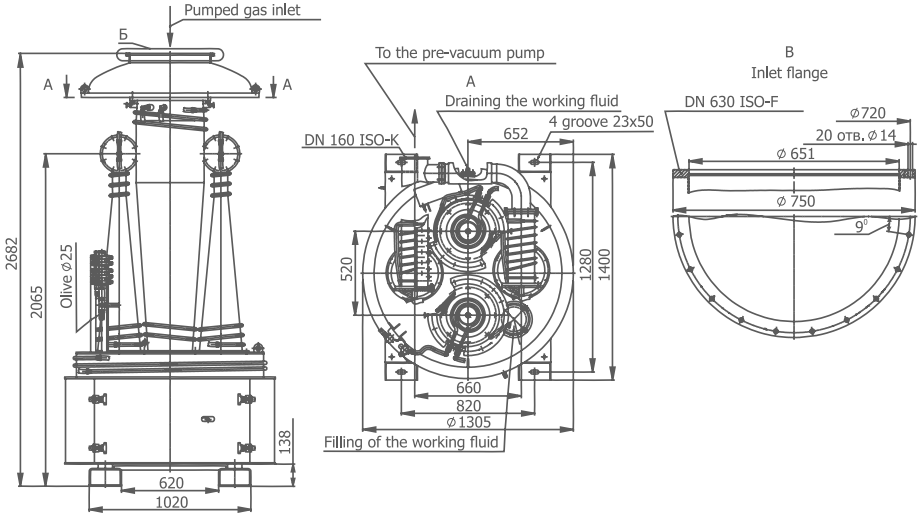
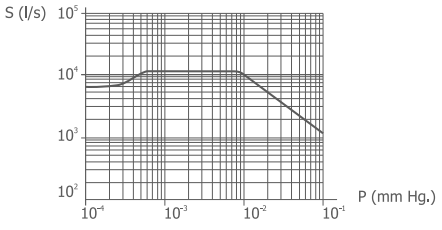
Oil Booster Pumps

VBP-630/12000
Oil Booster Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 12000 l/s

- High vacuum connection DN 630 ISO-F
- Forevacuum connection DN 160 ISO-K
- Carbon steel housing material
- Water cooling
- Works only with the pre-vacuum pump
- The speed of action of the forevacuum pump is not less than 360 m3/h
- Type of electrical connection directly through the connector or a block of electric switches
- Supply voltage 380V
- Power 24 kW
- Pump fluid filling, min / max, 1.0/1.4 l





Graph of the dependence of the speed of action from the pressure at the pump inlet

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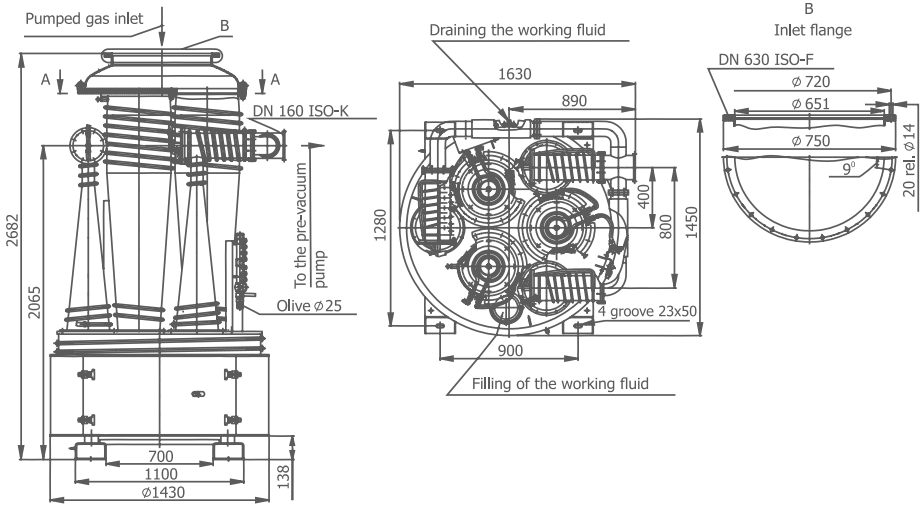
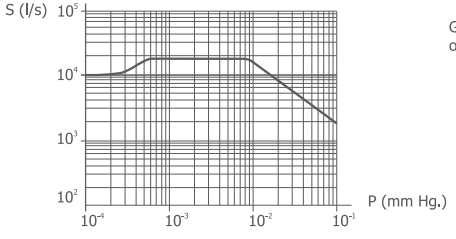
VBP-630/18000
Oil Booster Pump

Type: Oil
Pressure range: high vacuum
Speed of action: 18600 l/s

- ✦ High vacuum connection DN 630 ISO-F
- ✦ Forevacuum connection DN 160 ISO-K
- ✦ Carbon steel housing material
- ✦ Water cooling
- ✦ Works only with the pre-vacuum pump
- ✦ The speed of action of the forevacuum pump is not less than 540 m3/h
- ✦ Type of electrical connection directly through the connector or a block of electric switches
- ✦ Supply voltage 380V
- ✦ Power 36 kW
- ✦ Pump fluid filling, min / max, 1.0/1.4 l





Graph of the dependence of the speed of action from the pressure at the pump inlet

JSC "VACUUMMASH» 80 years

Oil Booster Pumps

TECHNICAL SPECIFICATIONS

NAME OF THE PARAMETER	VBP-160/1000	VBP-250/3000	VBP-400/6000	VBP-500/12000	VBP-630/12000	VBP-630/18000
Speed of action in the range of operating pressures from 1.33 to1.33 x 10^{-1} Pa (from 1 x 10^{-2} to 1x10^{-3} mm Hg), l/s*	880 $^{+160}_{-120}$	2800 $^{+700}_{-520}$	6200 $^{+1500}_{-570}$	10000 $^{+1700}_{-1000}$	12000 $^{+2000}_{-1500}$	18600 $^{+2800}_{-2100}$
The highest exhaust pressure, atan inlet pressure of 1.33 Pa (1x10^{-2} mm Hg),Pa (mm Hg), not less*	93,3 (0,7)	200 (1,5)				
Power consumption at rated voltage 380 V for a three-phase network current, W	2000 $^{+100}_{-200}$	6000 $^{+300}_{-600}$	12000 $^{+600}_{-1200}$	24000 $^{+1200}_{-2400}$		36000 $^{+1800}_{-3600}$
Recommended speed of action of the forevacuum pump, l/s, not less	15	25	50	80	100	150
Cooling water consumption temperature from +10°C to +20°C l/h, not less	145	360	600	1200		1800
Volume of the filled working fluid, l [3)]	5	17	47	65		90
Weight, kg, no more **	60	160	550	1100		1400
Overall dimensions, mm, no more ***						
- height	1050	1730	2414	2690	2682	2682
- width	515	740	1130	1305	1305	1450
- length	595	665	1250	1400	1400	1630

NOTE:
* When the heater power is from nominal to maximum. At the power of the heaters from nominal to minimum, it is possible to reduce the value of the parameters by 30%.
** Without plugs, their fastening parts and working fluid.
*** Without plugs and their fastening parts.

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Vacuum Baffles

Oil vapor vacuum pumps are additionally used with vacuum baffles that reduce the reverse flow of working fluid vapors into the pumped volume

APPLICATION OF VACUUM BAFFLES

	Water Baffle 250	Water Baffle 400	Water Baffle 500	Water Baffle 630	Water Baffle 800	Water Baffle 1000	Integrated Baffle 400	Integrated Baffle 500	Integrated Baffle 630	Integrated Baffle 800	Integrated Baffle 1000	Extended Cold Cap Baffles 400	Extended Cold Cap Baffles 500	Extended Cold Cap Baffles 630	Extended Cold Cap Baffles 800	Extended Cold Cap Baffles 1000	Multi Baffles 630
VBP-160/1000																	
VBP-250/3000	■																
VBP-400/6000		■															
VBP-500/12000			■														
VBP-630/12000				■													
VBP-630/18000				■													
VDP-250	■																
VDP-400		■					■					■					
VDP-500			■					■					■				
VDP-630				■					■					■			■
VDP-800					■					■					■		
VDP-1000						■					■					■	
VDP Jet-320																	
VDP Jet-500																	
VDP Jet-630																	■
VDP Jet-1000																	

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Vacuum Baffles

Water Baffles

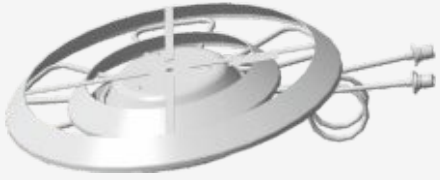
Water flow baffles are designed to reduce the flow of working fluid vapors into the pumped volume by condensing them on the cooled elements of the freezing

Multi Baffles

Multi baffles are designed to reduce the flow of working fluid vapors into the pumped volume by condensing them on the cooled elements of the freezing device. It can be cooled with water, freon and liquid nitrogen. In the case of using a coolant with t<0 ^{0}C, it provides an additional pumping speed

Integrated Baffles

Integrated baffles performs the function of an oil reflector,is installed instead of a standard oil reflector in pumps, has an additionalnumber of cooled screens to capture oil return flow vapors (more than the Extended Cold Cap Baffles), covers the entire area of the input high vacuum flange



Extended Cold Cap Baffles

Extended Cold Cap Baffles performs the function of an oil reflector, is installed instead of a standard oil reflector in VDP pumps, has an additional number of cooled screens for trapping oil reverse flow vapors (less than Integrated baffles).

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Vacuum equipment from Russia

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VACUUM EQUIPMENT FROM RUSSIA

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