

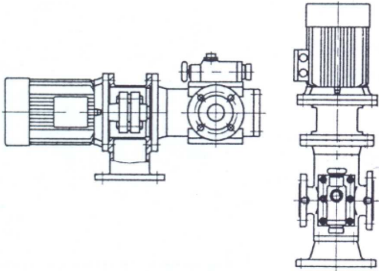
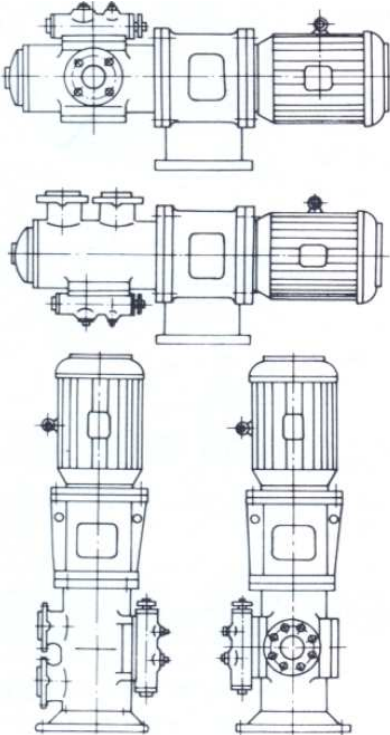
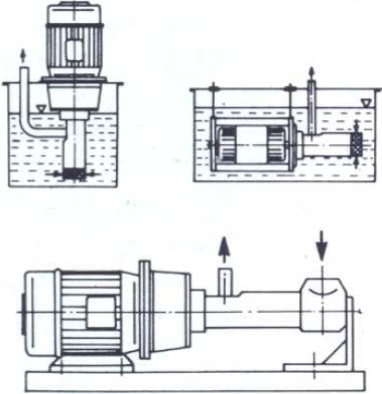
PRODUCTION PROGRAM

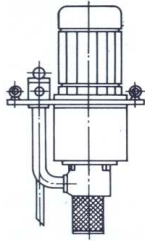
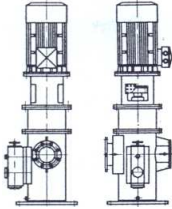
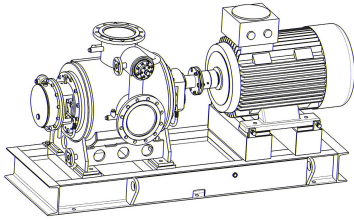
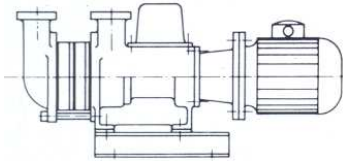
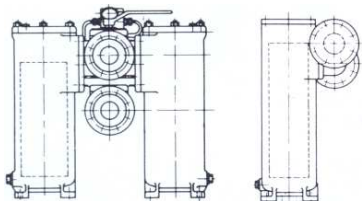
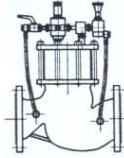
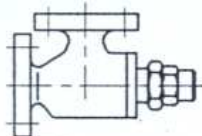
SCREW PUMPS GEAR PUMPS
 VANE PUMPS PUMPS FOR AMMONIA
 CENTRIFUGAL PUMPS REGULATING VALVES
 FILTERS PUMP STATIONS

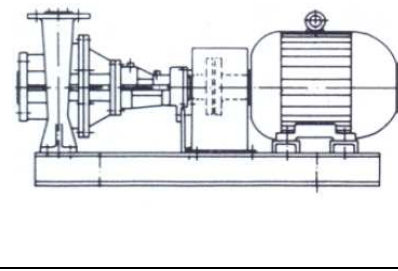
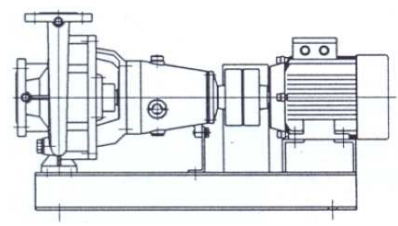
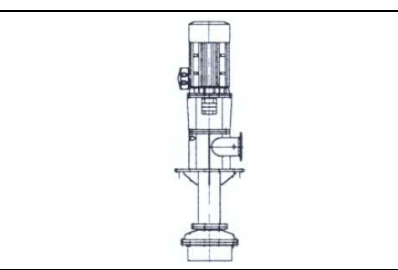
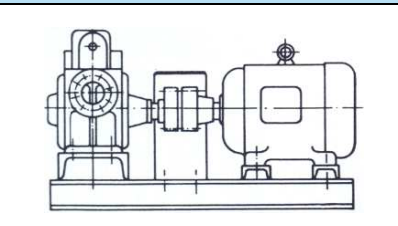
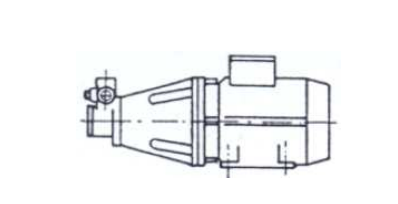
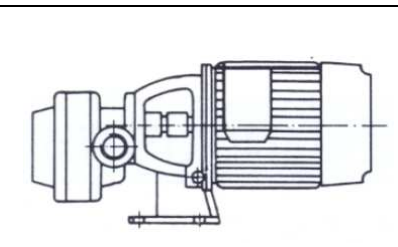
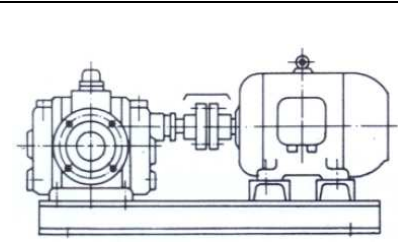
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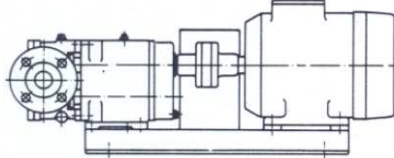
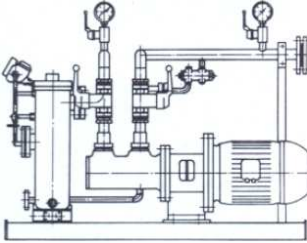
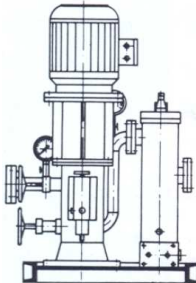
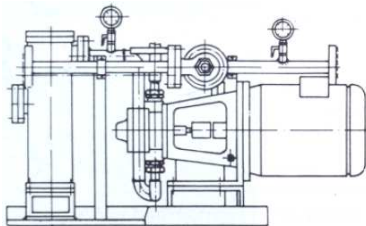
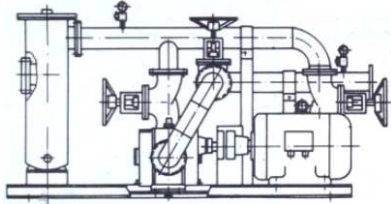
FUELS: LIGHT, MEDIUM AND HEAVY
 OILS FOR LUBRICATION
 HYDRAULIC OILS
 BITUMEN AMMONIA WATER
 LIQUID PETROLEUM GAS CHEMICALS

SCREW PUMPS

Type	Scheme	Description/Usage/Application	Working characteristics		
			Capacity	Pressure	Viscosity
SERIES "2"		<p>Screw pumps with 3 screws with an outer ball bearing. The pump casing is made in two variants: "H" – entrance and exit are on the same axis and "S" – entrance and exit are on the parallel axes. The sealing of the shaft end is done with mechanical seal. The pumps can be made for horizontal or vertical mounting with or without heating chamber. Each pump is equipped with short circuit or return regulating valve.</p> <p>Usage: Manipulation with light and heavy fuels, lubricating and hydraulic oils as well as for other mediums with lubrication abilities respectively as fuel and oil transfer pumps, for creating pressure in fuelling system etc.</p>	m ³ /h 3 - 175	MPa up to 1.6	mm ² /s 3.4 - 1520
SERIES "4"		<p>Screw pumps with 3 screws with outer or inner ball bearing. The pump casing is made in two variants: "H" – entrance and exit are on the same axis and "S" – entrance and exit are on the parallel axes. The sealing of the shaft end is done with mechanical seal. The pumps can be made for horizontal or vertical mounting with or without heating chamber. Working elements are located in one block (pump insert) PA, PB which is easy changeable. Each pump is equipped with short circuit or return regulating valve.</p> <p>Usage: Manipulation with light and heavy fuels, lubricating and hydraulic oils as well as for other mediums with lubrication abilities respectively as fuel and oil transfer pumps, for creating pressure in fuelling and hydraulic systems etc., and in all industry sectors.</p>	m ³ /h 3 - 175	MPa up to 4.0	mm ² /s 3.4 - 1520
SERIES "6" PANPT PANP PAN		<p>Screw pumps with 3 screws with inner ball bearing, without safety valve.</p> <p>Types: "PANPT" – designed for immersed mounting either in vertical or horizontal position. Pumps can be with or without seal at the shaft end. "PANP" – designed for immersed embedding "PAN" – designed for dry embedding, with mechanical seal.</p> <p>Usage: In hydraulic systems, for elevators, cranes, tool-machines etc.</p>	l/min 5 - 550	MPa max 8.0	mm ² /s 3.4 - 760

Type	Scheme	Description/Usage/Application	Working characteristics		
			Capacity	Pressure	Viscosity
PVP		<p>PVP type belongs to the three screw pumps series "4". They are designed only as vertically immersed. The working mechanism is the pump insert PA. The pumps are equipped with return regulating valve.</p> <p>Usage: oil circulation in the lubricating systems and for rising pressure in oil-hydraulic systems; for lubrication of the steam turbine bearing, rolling mills, high voltage induction motors etc.</p>	l/min 440-1250	MPa max 4.0	mm ² /s 3.4 - 760
DVP		<p>Screw pumps with three screws with dual operation, belongs to series "3", operating in vertical position with sliding bearings. The sealing of the shaft end is done with double mechanical seal. Each pump is equipped with regulating valve.</p> <p>Usage: manipulation with lubricating oils; as oil pump for ship's main engine and other similar application in different industries.</p>	m ³ /h 102-356	MPa max 1.0	mm ² /s 3.4 - 760
TWIN SCREW PUMPS					
DDVP		<p>Twin screw pumps with dual operation. Screws driven with synchronous gears. Rotation without contact work coil. Sealing is performed with mechanical seal, radial shaft seal or sealing braid. The pumps can be made for horizontal or vertical mounting.</p> <p>Usage manipulation of viscous media, mediums with or without lubrication abilities, dirty media with mechanical admixtures, suitable for all media that are not aggressive to the pump materials.</p>	m ³ /h 50-300	MPa max 1,6	cst 1-100 000
PUMPS FOR AMMONIA					Temperatures
PA		<p>Vortex pumps are in horizontal construction. The shaft is supported by two ball bearings and sealed with double mechanical seal – tandem construction.</p> <p>Usage: Manipulation with ammonia, freon, ammonia in solution, liquid petroleum gas etc.; in petrochemical and chemical industry; beer and juice industry; storing food ets.</p>	m ³ /h 0.5 - 20	m max 60 m	°C -45 to 50
FILTERS				Pressure	Filtration fineness
PDL PL		<p>Filters are devices for cleaning liquid media from mechanical impurities. Type PL are single and type PDL are double strainers. The filter element is multi-chamer or cartridge type. They can be equipped with steam or electric heaters. On buyer's request, the strainers can be equipped with differential pressure decrease indicator as well as with magnetic particle separator.</p> <p>Usage: for oils and fuels, and in special construction can be used for water.</p>	m ³ /h up to 200	MPa -0.1 to 1.6	mm 0.015 up to 1.4
PRESSURE REGULATORS			Inlet pressure	Outlet pressure	
RP		<p>Piston pressure regulators perform are working on the principle of utilization of potential energy of the medium itself, which means that it is not necessary to bring the auxiliary energy.</p> <p>Usage: for water ; pressure regulation in water supply systems</p>	bar max 25	bar 0 - 6 0 - 12	
REGULATING VALVES			Capacity	Pressure	Viscosity
RV		<p>Regulating valves are directly controlled with differential piston. They are of angular shape with flange connection except the valve RV-15 which has threaded connections.</p> <p>Usage: for nonaggressive and nonabrasive media without solid impurities, and especially for oils and fuels.</p>	m ³ /h 1 - 100	MPa max 4.0	mm ² /s 3.4 - 1520

CENTRIFUGAL PUMPS					
Type	Scheme	Description/Usage/Application	Working characteristics		
			Capacity m ³ /h	Lift m max	Temperatures °C
PTU PTUS		<p>PTU pumps are single stage centrifugal pumps designed for horizontal installation. The shaft is supported by two ball bearings and sealed with soft seal (braid) and radial shaft seals. Usage: for circulation of thermal oil</p> <p>PTUS pumps are single stage centrifugal pumps designed for horizontal installation (derived from PTU series). The shaft is sealed with mechanical seal. Usage: for all nonaggressive media (water, solvents, light fuels etc.)</p>	2 – 325	80	300
SSP		<p>SSP pumps are single stage centrifugal pumps in horizontal construction. Their shaft is supported by two ball bearings. Sealing is performed with mechanical seal (single or double). The pump elements which are in direct contact with the working media are made of stainless steel. Usage: for aggressive media in chemical, petrochemical, pharmaceutical and food industry as well as in refineries etc.</p>	l/min 2 - 325	m max 80	°C 200
CPU		<p>CPU pumps are single or multi-stage centrifugal pumps designed for vertical, immersed installation. The shaft is supported by two or three ball bearings (depending on the length). The shaft is sealed with mechanical seal. Usage: for aggressive and nonaggressive media; as pumps for lubrication of ship's engines; for pumping tanks etc.</p>	l/min up to 5800	m max 90	°C 120
ROTARY VANE PUMPS					
PKK PKKN		<p>These pumps are in horizontal construction. Type PKK has flange connections and type PKKN has threaded connections. The shaft is supported by two ball bearings and sealed with mechanical seals. All pumps are equipped with short circuit regulating valve. Usage: Manipulation with light fuels (petrol, kerosene, diesel fuel oil, alcohol, various solvents, liquid gases); in fuel dumps; chemical industry, petrochemical industry etc.</p>	m ³ /h 12 - 75	MPa max 0.6	mm ² /s 1 - 75
GEAR PUMPS					
DBE DBG DCJ		<p>Gear pumps with inside indentment are equipped with return regulating valve. Sealing of the shaft is performed with mechanical seal. The shaft is supported with sliding bearings. Usage: for dosage of fuel and oil; for lubricating systems etc.</p>	l/h 60 - 900	MPa max 3.0	mm ² /s 3.4 - 760
ZOL		<p>Classic gear pumps. They have inside sliding bearings. The shaft is sealed by radial shaft seal based on PTFE or by soft seal on request. These pumps do not have regulating valve. Usage: manipulation with light and heavy fuels, bitumen, tar, viscose; lubricating oils; as fuel and oil transfer pumps; circulating pumps etc.</p>	l/min 3 - 160	MPa max 2.5	mm ² /s 3.4 - 1520
PZG		<p>Gear pumps with heating chamber (steam, hot water or thermal oil). They have inside sliding bearings. The shaft is sealed with soft seal (braid). These pumps have installed regulating valve. Usage: manipulation with heavy fuels, bitumen, tar, viscose; in refineries, asphalt bases, paper industry etc.</p>	m ³ /h 12 – 60	MPa max 1.0	mm ² /s 3.4 - 1520

Type	Scheme	Description/Usage/Application	Working characteristics		
			Capacity	Pressure	Viscosity
ZPC		<p>Special gear pumps with cycloidal gear shape. Working elements are not in direct contact but are driven by the synchronous gears. The shaft is supported with ball bearings. Sealing is done with mechanical seal or soft seal (braid). The material used for the casing shaft and gears will be chosen according to the working medium. There is a possibility of heating the pump as well as quickly disassemble it due to cleaning. Possibility of installing regulating valve inside the pump.</p> <p>Usage: manipulation with high viscous media such as fat, wax, cream, chocolate, resin, paraffin wax, glue, molasses, paints, syrup etc.</p>	m ³ /h 0.5 - 50	MPa max 1.0	Pas 0.1 - 1000
PUMP STATION			m ³ /h	MPa max	mm ² /s
DPSA		<p>Pump stations are modular units consisting of pumps, strainers, fittings and pipeline mounted on the common pedestal.</p> <p>The standard version of the pump station is designed with two pumps and double suction strainer.</p> <p>On special request, single and triple pump stations can also be manufactured.</p> <p>DPSA – pump station with Series "2" screw pumps</p> <p>DPSV – pump station with Series "4" screw pumps</p> <p>PSZOL – pump station with gear pumps type ZOL</p> <p>PSPZG – pump station with gear pumps type PZG</p>	0.3 – 5.4	2.0	3.4 – 760
DPSV		<p>Usage: for light, medium and heavy fuels, lubricating oils, in various industry branches especially for loading and unloading fuel and dosing the same in the fuelling systems etc.</p>	0.5 – 25	4.0	3.4 up to 1520
PSZOL		<p>Besides mentioned standard types of pump stations, we can manufacture (on buyer's request) OIL SYSTEMS – BATERIES for oil preparation and circulation in lubricating systems. In general, oil systems consist of pumps, strainers, oil reservoir, heat exchanger, pressure control device, level switches etc.</p> <p>Usage: circulation of the lubricating oil in steam turbine, high voltage electric motors, rolling mills, etc.</p>	0.18 – 9.6	2.5	3.4 up to 1520
PSPZG			12 - 60	1.0	3.4 up to 1520

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