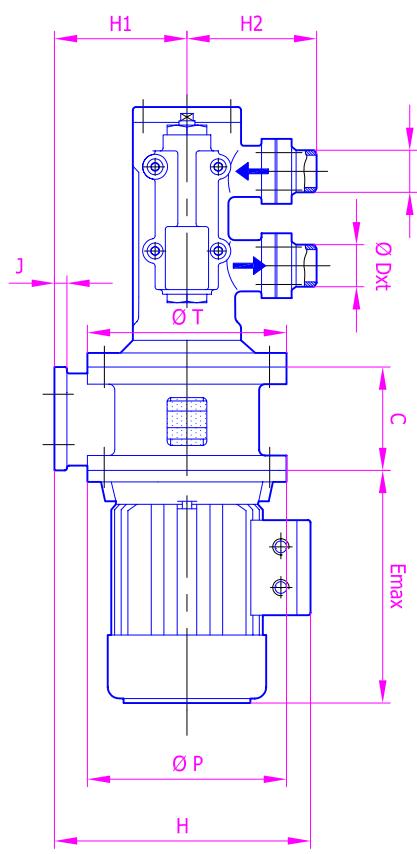
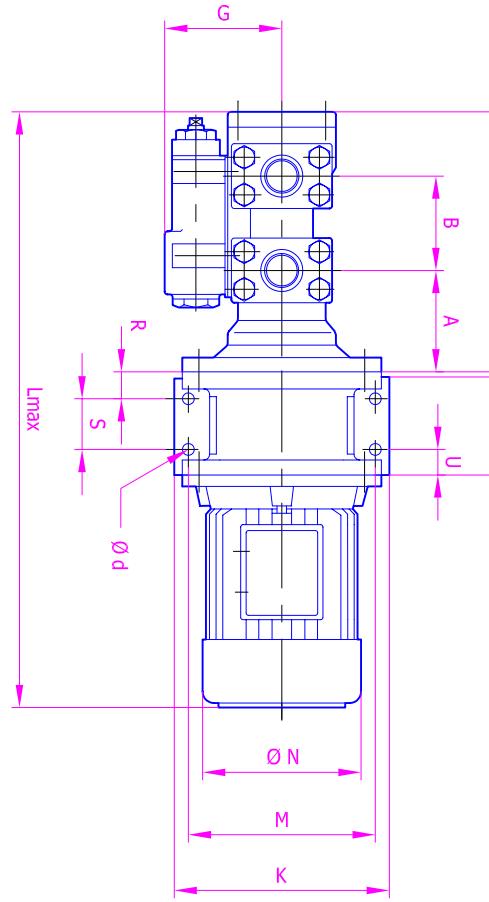


# mpd Tvorница pumpi d.o.d.



## VIJČANE PUMPE TIPO PAK

### Screw pumps type PAK



Mjere u mm / Dimensions in mm

Vel. E.M. E.M. size	A	B	C	$\varnothing$ Dxt	$\varnothing$ d	Emax	F	G	H	H1	H2	J	K	Lmax	M	$\varnothing$ N	$\varnothing$ P	R	S	$\varnothing$ T	U	V	Mass kg
PAK - 20																							

71	92	205	225	123	180	503	150	139	160	100	15	37
80	101	230	255	132	180	537	156	156	200	27	90	160
90	113	275	253	132	200	594	160	176	200	27	90	160

PAK - 25

71	92	205	225	123	180	503	150	139	160	100	15	37
80	101	230	255	132	180	537	156	156	200	27	90	160
90	113	275	253	132	200	594	160	176	200	27	90	160

PAK - 32

80	117	230	225	123	180	589	156	200	18.5	90	15	57
90	127	242	251	125	125	644	200	176	200	18.5	90	60
100	137	305	286	150	16	684	210	194	250	22	115	68

PAK - 38

90	127	275	251	125	12	644	200	176	200	18.5	90	15	60
100	137	305	286	150	16	684	210	194	250	22	115	130	70
112	137	323	298	150	16	702	218	250	22	115	160	25	75

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## Working performances

## Primjena

Za manipulaciju sa podmazivim fluidima, koji ne sadrže abrazivne supstance. Fluidi - ulja za podmazivanje, laka i teška goriva, hidraulička ulja, emulzije i sl.

Koriste se kao transfer pumpe, dozirne pumpe za gorivo, ulje u industriji, brodogradnji ....

## Konstrukcija

**Samoistra** trovretena vijčana pumpa sa montažnom prirbušnicom. Kućište pumpe je jednodinljivo, sa radiljno postavljenim priključima sa protupribušnicama za navođenje. Konstruirana je jedan smjer rotacije i jedan smjer strujanja - standardno desni.

Pogonski vijak je uležišten u vanjski kugljeni ležaj, trajno podnazan, dvostrano zatvoren. Brtvljenje pogonskog vijka je standardno izvedeno pomoću mehaničke brtve. Na zahjev je moguća izvedba pomoću magnetske spojke, pri čemu je pumpa hermetički izolirana. Rotacija se sa pogonskog motora na pogonski vijak pumpe prenosi posredstvom permanentnih magneta, bez mehaničkog kontakta.

Na kućištu pumpe je prigraden sigurnosni ventili, koji ograničava maksimalni radni tlak, koji se može podešavati prema potrebi. Pogoni se najčešće sa elektromotornom direktno ili preko reduktora, kao i reguliranim pogonom pomoću frekvencijskog regulatora broja okretaja. Na zahjev je moguć pogon hidromotonom, pneumatskim motorom i diesel/benzinskim motorom.

## Radne karakteristike

- Protok ..... 2 - 170 l / min.;
- Uzni tlak..... do 7 bar;
- Izazi tlak..... do 16 bar;
- Diferencijalni tlak..... do 10 bar;
- Radna temperatura ..... -20 do 180 °C;
- Viskozitet ..... Standardno 3 do 1500 cSt.

## Application

For manipulation of lubricating fluids without abrasive substances like: lubrications oils, light and heavy oils, hydraulic oils, emulsions, etc. Pumps are used as transfer pumps, dosing pumps for fuel oils, etc in industry, shipbuilding...

## Design

Self-priming, three-screw pump for flange mounting. Pump casing in one block with inlet / outlet on the same side. Connection flanges with counter flanges for welding.

Pump is designed for single rotation sense and for single suction-pressure orientation - standardly right. Working screw is supported by outside, bilaterally closed and permanently greased ball bearing.

Main working screw is standardly sealed by means of mechanical seal. On request is also available performance with magnetic coupling, in which case is the pump hermetically closed. Rotation is then transferred from driving motor to main pump screw by means of permanent magnet without mechanical contact.

Safety - by pass valve is mounted on pump body. It limits maximal working pressure to adjusted / preset value.

Driving is possible by electric motor directly, by gear reducer or by means of frequency speed regulator. On request is also possible drive by hydro motor, pneumatic motor, or by diesel / gasoline motor.

## Working characteristics:

Flow..... 2 to 170 l / min.;  
Inlet pressure..... Up to 7 bar;  
Outlet pressure..... Up to 16 bar;  
Working temperature..... -20 to 180 °C;  
Viscosity..... Standardly from 3 to 1500 cSt.

VELIČINA Size	DIF. TLAK Different pressure bar	PROTOK Flow l / min.		SNAGA Power kW		PROTOK Flow l / min.		SNAGA Power kW		PROTOK Flow l / min.		SNAGA Power kW	
		20 cSt	400 cSt	20 cSt	400 cSt	20 cSt	400 cSt	20 cSt	400 cSt	20 cSt	400 cSt	20 cSt	400 cSt
950 RPM													1150 RPM
20 - 2N	5	2.3	0.09	5.8	0.16	3.7	0.11	7.2	0.22				
	10	-	-	5.4	0.22	1.9	0.19	6.8	0.29				
25 - 2N	5	7	0.17	11.9	0.29	9.8	0.21	14.6	0.38				
	10	4.5	0.28	11.3	0.41	7.3	0.34	14	0.52				
32 - 2K	5	15	0.27	20.6	0.45	19.7	0.33	25.4	0.58				
	10	12.1	0.45	20	0.64	16.8	0.56	24.7	0.81				
32 - 2N	5	18.7	0.33	25.8	0.56	24.6	0.41	31.7	0.72				
	10	15	0.57	24.9	0.8	21	0.7	30.8	1				
32 - 2D30	5	24.4	0.43	33.6	0.73	32	0.53	41.2	0.94				
	10	19.6	0.74	32.4	1.04	27.3	0.91	40	1.3				
38 - 2N	5	34.9	0.54	44	0.9	44.7	0.67	53.8	1.14				
	10	30.1	0.93	42.9	1.3	39.9	1.2	52.7	1.63				
1450 RPM													1750 RPM
20 - 2N	5	5.9	0.15	9.4	0.29	8	0.19	11.5	0.37				
	10	4.1	0.24	9	0.38	6.2	0.29	11	0.49				
25 - 2N	5	14	0.27	18.9	0.51	18.2	0.34	23	0.66				
	10	11.5	0.44	18.3	0.69	15.6	0.55	22.4	0.87				
32 - 2K	5	26.7	0.43	32.4	0.78	33.8	0.54	39.4	1				
	10	23.8	0.72	31.7	1.08	30.8	0.89	38.7	1.36				
32 - 2N	5	33.4	0.54	40.5	0.97	42.2	0.68	49.3	1.25				
	10	29.7	0.9	39.6	1.35	38.5	1.1	48.4	1.71				
32 - 2D30	5	43.5	0.7	52.6	1.26	54.9	0.88	64.1	1.62				
	10	38.7	1.17	51.4	1.75	50.1	1.43	62.9	2.22				
38 - 2N	5	59.5	0.87	68.6	1.54	74.2	1.1	83.3	1.97				
	10	54.6	1.5	67.5	2.2	69.4	1.8	82.2	2.7				
2900 RPM													3500 RPM
20 - 2N	5	16.3	0.35	19.7	0.7	20.5	0.44	24	0.97				
	10	14.4	0.52	19.3	0.93	18.7	0.65	23.5	1.2				
25 - 2N	5	34.2	0.63	39.1	1.3	42.6	0.8	47.5	1.7				
	10	31.7	0.97	38.5	1.7	40.1	1.2	46.9	2.1				
32 - 2K	5	60.7	0.99	66.4	1.97	74.8	1.24	80.5	2.5				
	10	57.8	1.57	65.7	2.58	71.9	1.95	79.8	3.3				
32 - 2N	5	76	1.24	83	2.46	93.5	1.56	100.6	3.2				
	10	72.2	1.96	82.1	3.38	89.8	2.43	99.5	4.1				
32 - 2D30	5	98.7	1.6	108	3.2	121.6	2.03	130.8	4.1				
	10	94	2.55	106.7	4.39	116.8	3.16	129.6	5.3				
38 - 2N	5	130.7	2	139.8	3.8	160.1	2.5	169.2	4.9				
	10	125.8	3.2	138.7	5.1	155.3	4	168.2	6.5				

Model pumpe / Pump model PAK

