

ZUPČASTE PUMPE TIP ZOL
Gear pumps type ZOL



Description - working characteristic for pumps

OPIS

Zupčaste pumpe sa vanjskim ozubljenjem tipa ZOL su priрубne konstrukcije, bez ugrađenog sigurnosnog ventila. Osovine su uležištene u klizne ležajeve, koji se podmazuju sa radnim medijem.

NAMJENA

Koriste se za transport neagresivnih, samopodmazujućih medija, koji ne sadrže veću koncentraciju abrazivnih čestica, kao što su: ulja za loženje (laka, teška), min. ulja, biljna i ulja animalnog porijekla, bitumeni, parafini i sl.

BRTVLJENJE

Pogonska osovina se brtvi sa mehaničkom brtvom ili radijalnom osovinom brtvom na bazi PTFE.

RADNE KARAKTERISTIKE

Radni tlakdo 15 bar;
Radna temperatura.....110 (250) °C;
Kin. viskozitet.....do 1500 mm²/s;
Br. okretaja.....do 1500 o/ min.

MATERIJALI

Tijelo pumpe, poklopac.....SL;
Osovine.....uglj. čelik;
Zupčanci.....uglj. čelik;
Ležaji.....bronca, SL.

DESCRIPTION

Gear pumps type ZOL are designed with exterior indented gears, flange mounted and without safety valve. Shafts are supported by means of sliding bearings, lubricated with working liquid.

ASSIGNMENT

ZOL pumps are used for transport of non aggressive, self priming fluids consisting of no abrasive solids like fuel oils (diesel and heavy fuel oil, mineral oils, vegetable oils, animal oils, bitumen, parafin etc.

SEALING

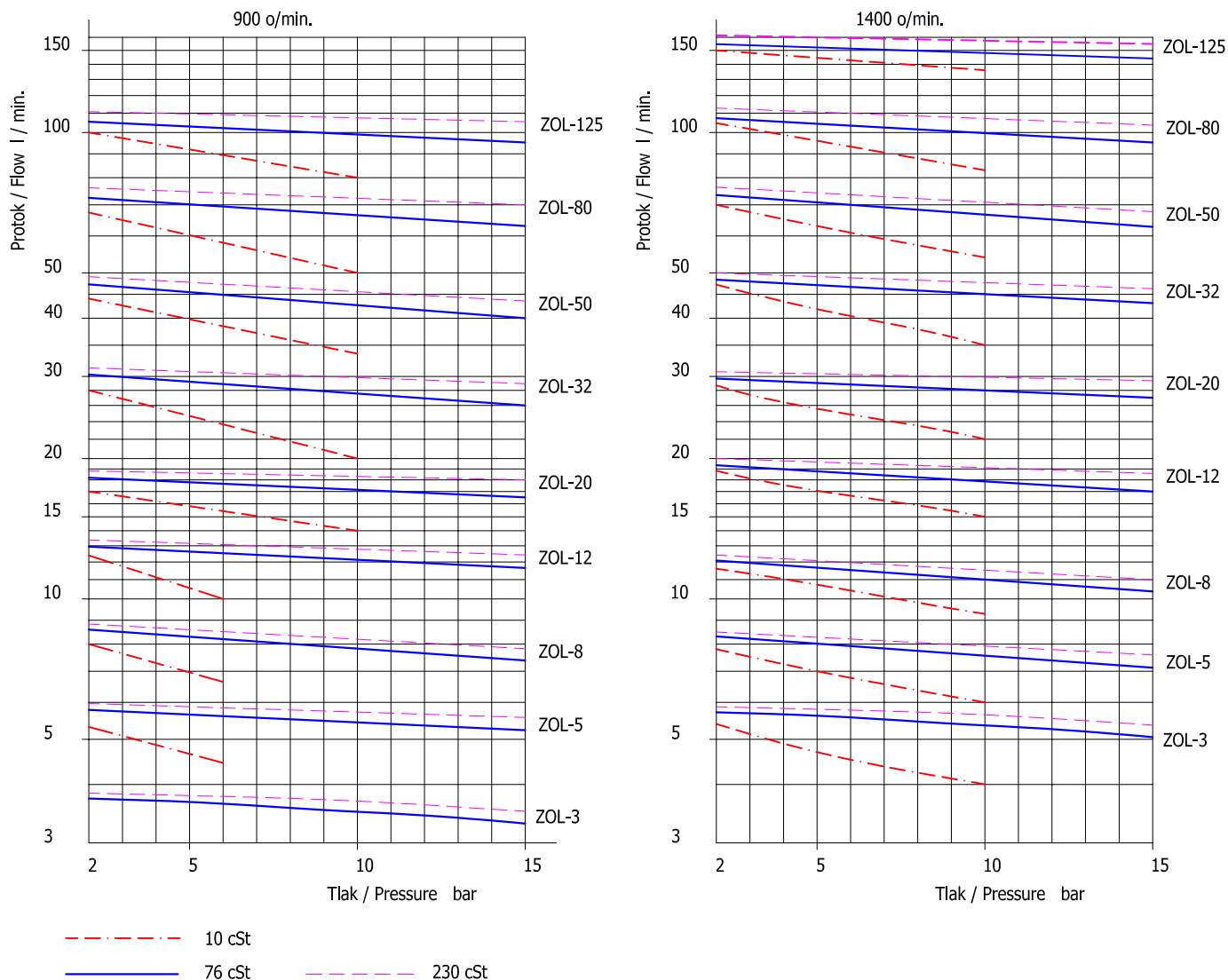
Driving shaft is sealed by radial shaft seal based on PTFE or by soft seal on request.

WORKING CHARACTERISTIC

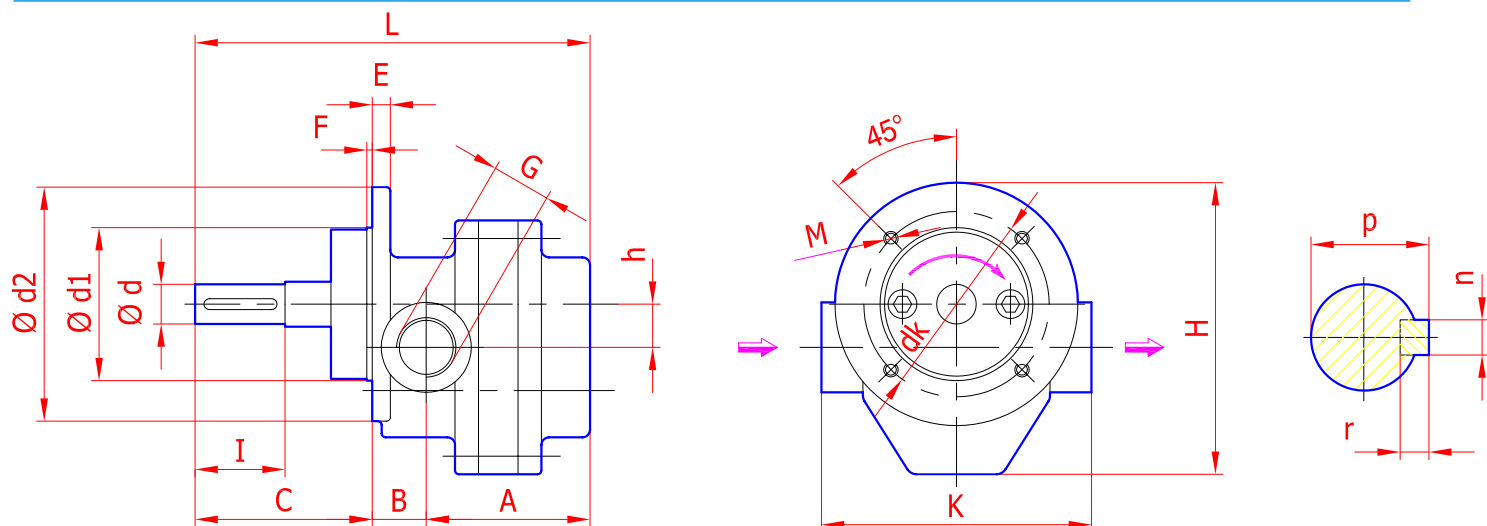
Working pressure.....up to 15 bar;
Working temperature.....110 (250) °C;
Cinematic viscosity.....up to 1500 cSt;
Rotating speed.....up to 1500 RPM.

MATERIALS

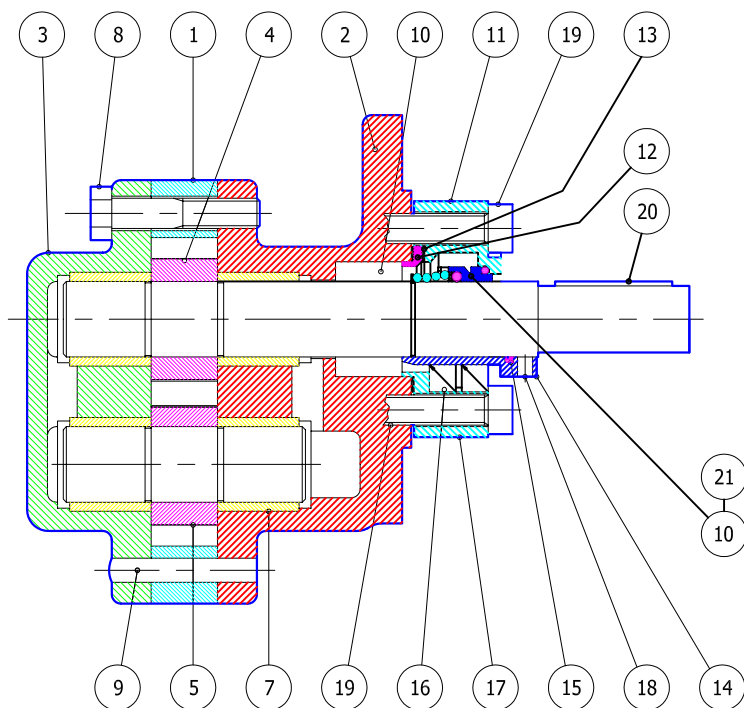
Pump body, cover.....gray cast iron;
Shafts.....carbon steel;
Gears.....carbon steel;
Bearings.....brass, nodular cast iron.



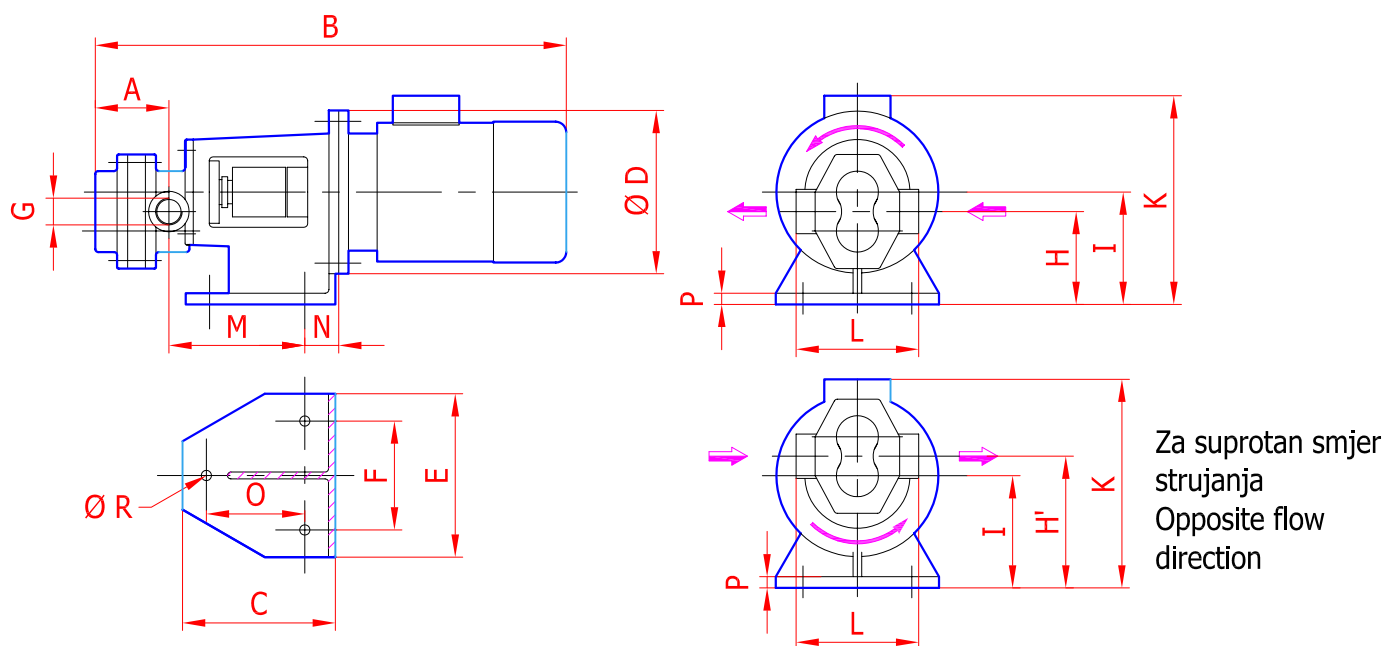
Dimension scheme for pumps - cross section with list



TIP PUMPE Pump type	A	B	C	d	dk	d1	d2	E	F	G	H	h	I	K	L	M	n	p	r	MASA Mass kg
ZOL - 3	61	25	70	12	85	70	112	9	3	1/2"	112	15	30	110	156	M6	4	13.6	4	3
ZOL - 5	66														161					3.2
ZOL - 8	74														169					3.3
ZOL - 12	83	30	98.5	22	103	85	135	10	3	1"	161.5	24	50	150	211.5	M8	6	24.5	6	7.3
ZOL - 20	91														219.5					7.8
ZOL - 32	104														232.5					8.6
ZOL - 50	118	47.5	110.5	35	135	115	175	12	3.5	1 1/2"	175	37	58	200	276	M8	10	38.3	8	20
ZOL - 80	133														291					22
ZOL-125	142														300					24



POZ/Pos	NAZIV / Name	TIP / Type	
		ZOLM	ZOLS
1	TIJELO PUMPE / Pump body	+	+
2	POKLOPAC PREDNJI / Front cover	+	+
3	POKLOPAC ZADNJI / Back cover	+	+
4	POG. OSOV. SA ZUPČ./ Driving shaft with gear	+	+
5	GONJ. OSOV. SA ZUPČ./Driven shaft with gear	+	+
6	BRTVA / Gasket	+	+
7	KLIZNI LEŽAJ / Sliding bearing	+	+
8	VIJAK / Screw	+	+
9	ZATIK / Pin	+	+
10	MEHANIČKA BRTVA / Mechanical seal	+	-
11	BRTVENA KOMORA / Seal chamber	+	-
12	PRSTEN / Ring	+	-
13	BRTVA / Gasket	+	+
14	ČAHURA / Bush	-	+
15	O-PRSTEN / O-ring	-	+
16	OSOV. RAD. BRTVA / Lip seal	-	+
17	PRSTEN / Ring	-	+
18	UVRTNI VIJAK / Screw	-	+
19	IMBUS VIJAK / Screw	+	+
20	KLIN / Key	+	+
21	USKOČNIK / Circlip	+	-



PUMPNI AGREGAT TIP Pump unit type	A	B**	C	D	E	F	G	H	H'	I	K	L	M	N	O	P	R
ZOL-3/80*	61	452	132	Ø200	150	110	G1/2	95	125	110	236	110	92	69	-	10	Ø 12
ZOL-5/80*	66	457															
ZOL-8/80*	74	465															
ZOL-12/80*	83	525	172	Ø200	180	130	G1	116	164	140	266	150	161	51	110	10	Ø 12
ZOL-12/90*		570									270						
ZOL-20/80*	91	533									266						
ZOL-20/90*		578									270						
ZOL-32/90*	104	591									300		162	60	115	14	
ZOL-32/100*		631									320						
ZOL-50/100*	118	675	200	Ø250	200	150	G1 1/2	123	197	160	332	200	183	69	130	14	Ø 14
ZOL-50/112*		693									348						
ZOL-80/112*	133	708									348						
ZOL-80/132*		840									348						
ZOL-125/132*	142	849									440		228	73	158	20	Ø18
ZOL-125/160*		939									440						

* VELIČINA MOTORA / Motor size
** NAJVEĆA MJERA / Max. dimension

OZNAČAVANJE:
Denomination:

ZOL XX-XX X

T - TEMPERATURA PREKO 110 °C / Temperature over 110 °C

VELIČINA PUMPE / Pump size

G - KOMORA ZA GRIJANJE / Heating chamber;

BRTVA / Seal; S - RAD. OSOV. / Lip seal; M - MEHANIČKA BRTVA/ Mechanical seal

TIP PUMPE / Pump type