



TAIZHOU
ETERNAL HYDRAULIC



Hydraulic Pumps

Taizhou Eternal Hydraulic Machine Co.,Ltd.

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Hydraulic pumps

We offers a complete range of gear and piston pumps with a displacement of 20 until 133 cm³/rev and a working pressure up to 350 bar.

Gear pumps

We offers top quality gear pumps for tipping and other applications. FLASH series is suitable to work with pressure up to 225 bar, features reinforced bearing system and 4 connection ports. BRITE series is heavy duty range suitable to work with ALPHA wetkits with working pressure of 250bar, these pumps feature reinforced bearing system and are available in several connection ports configurations. The new series of CVP is a range of compact pumps to meet the demanding requests from the modern truck manufacturers, with the compact bearing system design, compact in dimensions and weight, these pumps can work with ALPHA systems at 250bar.

All our standard gear pumps are BI-ROTATIONAL to optimize to stock levels and installation time, as standard they also feature leakage indicator system in line with leading gearbox manufacturers, all our pumps are delivered after pressure testing and running in procedure in both directions to assure outstanding performance from the first moments after the easy installation.

Piston pumps

For high pressure and long continuous use our strongly suggests using our piston pumps, these pumps are suitable to work with pressure up to 350bar in such applications like cranes, hook and skip loaders, unloading systems and others where heat generation is significant. As in other pumps, they are equipped with leakage indicator systems, the rotation direction can be easily changed by reversing the rear cover plate. Our piston pumps are suitable to work with the by-pass valves and engine PTO's allowing for operation while driving the vehicle.

Special pumps

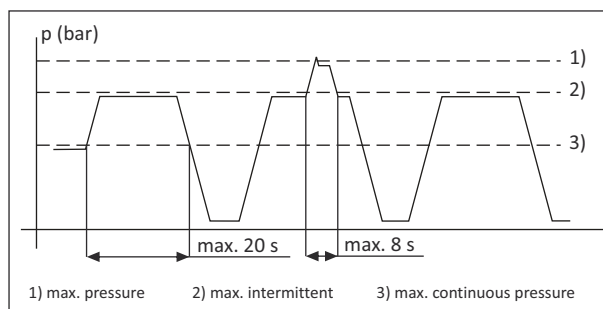
Besides the standard pump range listed in this catalogue, We also offers on request a number of special pumps for truck applications – twin flow gear and piston pumps, pumps for engine PTO's with by-pass valve, pumps produced by recognized third parties like Parker, Hydro Leduc, Sunfab and others, various pump adaptors and accessories.

Code system hydraulic pumps

Pump	073L	BI	4H	BR	L = Anti-clockwise (seen from the front side)
	073L				R = Clockwise (seen from the front side)
		BI			BI = BI-rotational
			4H		3H = UNI 3H; 3 holes
				BR	BR = BRITE series
					4H = ISO 4H; 4 holes

The pressures that matter in application of pumps are:

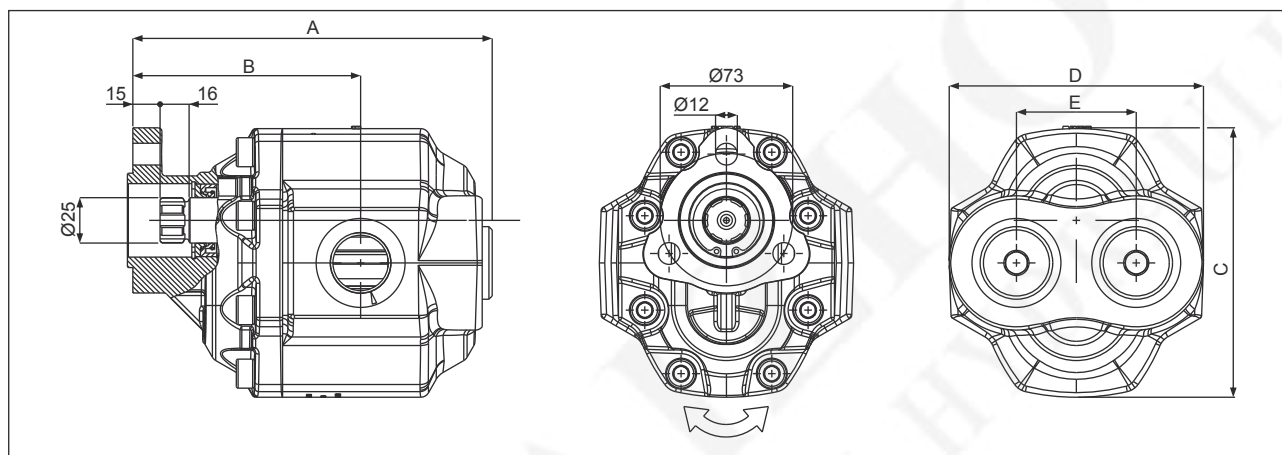
- Max. peak pressure; pressure allowed for a short interval of max 8 seconds. (1)
- Max. intermittent pressure; pressure allowed for maximum 20 seconds. (2)
- Max. continuous pressure; pressure allowed constantly, without peaks. (3)



For tippers we generally use max. intermittent pressure as the tipping cycle does not require maximum pressure for long intervals. For moving floor trailers both piston pump and HD gear pumps can be used. For hook and skiploaders, cranes we advise to use piston pumps. Piston pumps require extra attention when it comes to suction characteristics and oil filtration. Rotation Frequency (RF) should not be too high as this negatively influences the suction performance of the pump, especially when the pump is mounted above the suction connection to the oil tank. Max. Self Priming Speed (MSPS) is the speed allowed for which the pump suction still performs well, with pump fitted above tank level. Max. rotation frequency, is the speed allowed with pump below tank. In the following tables the max. intermitted pressure is given as working pressure.

GEAR PUMPS UNI 3H: BI-ROTATIONAL

Part no.	Description	Displacement (cm ³)	Weight (kg)	Suction port	Suction adapter	Pressure port	Rotation frequency (rpm)	Working pressure (bar)
14563028	GEAR PUMP 020L-BI-3H	20	6.3	G $\frac{1}{2}$ "	1 $\frac{1}{4}$ "	G $\frac{1}{2}$ "	2000	280
14563033	GEAR PUMP 025L-BI-3H	25	6.8	G $\frac{3}{4}$ "	1 $\frac{1}{4}$ "	G $\frac{3}{4}$ "	2000	250
14563043	GEAR PUMP 032L-BI-3H	32	7.2	G $\frac{3}{4}$ "	1 $\frac{1}{4}$ "	G $\frac{3}{4}$ "	1800	210
14563034	GEAR PUMP 035L-BI-3H	35	12	G $\frac{3}{4}$ "	1 $\frac{1}{4}$ "	G $\frac{3}{4}$ "	2500	300
14563052	GEAR PUMP 052L-BI-3H	52	13	G1"	1 $\frac{3}{4}$ "	G1"	2500	270
14563061	GEAR PUMP 061L-BI-3H	61	13.5	G1"	1 $\frac{3}{4}$ "	G1"	2500	250
14563082	GEAR PUMP 082L-BI-3H	82	15.5	G1"	1 $\frac{3}{4}$ "	G1"	2250	280



Part no.	Description	A	B	C	D	E
14563028	GEAR PUMP 020L-BI-3H	157	119	102	100	48
14563033	GEAR PUMP 025L-BI-3H	160	112	102	100	48
14563043	GEAR PUMP 032L-BI-3H	175	122	102	100	48
14563034	GEAR PUMP 035L-BI-3H	168	109.5	148.5	128.1	60
14563052	GEAR PUMP 052L-BI-3H	179	111.5	148.5	128.1	60
14563061	GEAR PUMP 061L-BI-3H	185	117.5	148.5	128.1	60
14563082	GEAR PUMP 082L-BI-3H	198	125.5	148.5	128.1	60

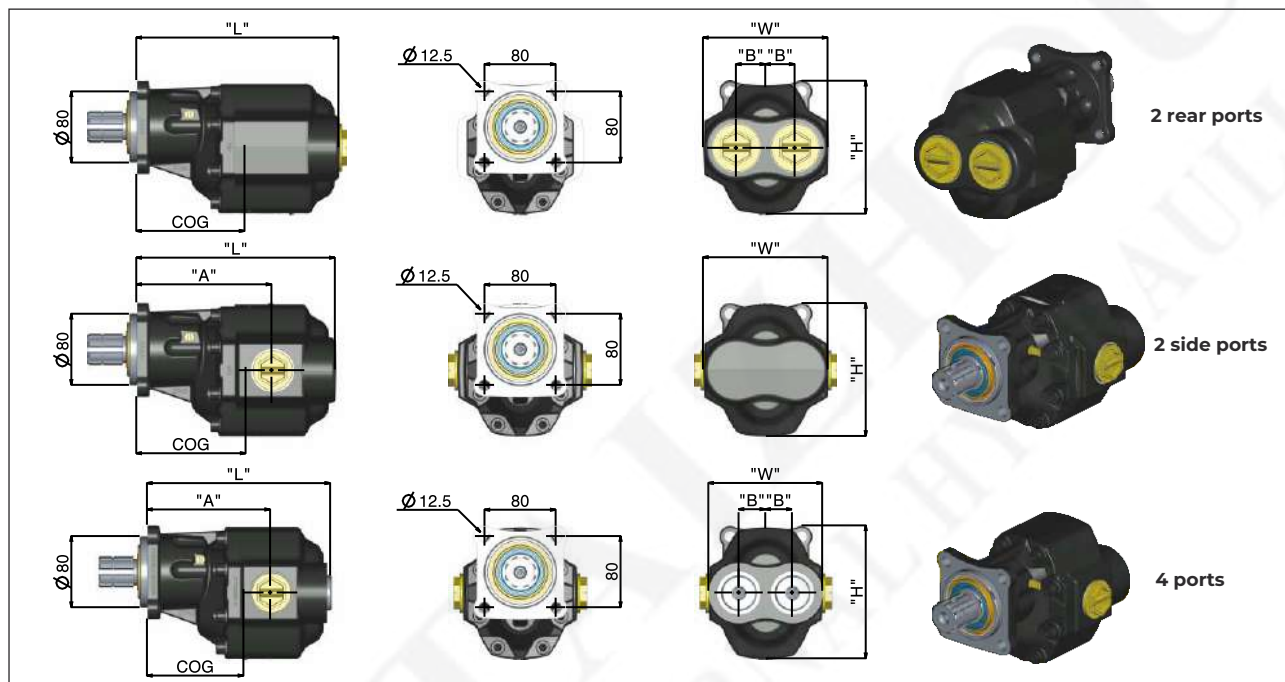
SEAL KITS

Part no.	Description
02460055	SEAL KIT FOR 020L - 032L
02460067	SEAL KIT FOR 035L - 061L
02410028	SEAL KIT FOR 082L



ALPHA GEAR PUMP BI - 4H BRITE: BI-ROTATIONAL

Part no.	Description	Displacement (cm ³)	Weight (kg)	Port configuration	Suction port	Pressure port	Rotation freq. (rpm)	Working pressure (bar)
14562005	GEAR PUMP 035L-BI-4H-BRITE	35	12.5	4	G $\frac{3}{4}$ "	G $\frac{3}{4}$ "	2500	275
14562010	GEAR PUMP 052L-BI-4H5-BRITE	52	13.5	4	G1"	G1"	2500	275
14562015	GEAR PUMP 061L-BI-4H5-BRITE	61	14	4	G1"	G1"	2500	250
14562030	GEAR PUMP 092L-BI-4H5-BR	92	19.5	4	G1 $\frac{1}{4}$ "	G1 $\frac{1}{4}$ "	2500	250
14562036	GEAR PUMP 113L-BI-4H5-4P	113	20.8	4	G1 $\frac{1}{4}$ "	G1 $\frac{1}{4}$ "	2000	250
14562795	GEAR PUMP 133L-BI-4H-2S	133	25.3	2 side	G1 $\frac{1}{2}$ "	G1 $\frac{1}{2}$ "	2500	250



Part no.	Description	A	B	H	L	W
14562005	GEAR PUMP 035L-BI-4H-BR	130.5	30	149.5	189	128
14562010	GEAR PUMP 052L-BI-4H5-BR	132.5	30	149.5	200	128
14562015	GEAR PUMP 061L-BI-4H5-BR	138.5	30	149.5	206	128
14562030	GEAR PUMP 092L-BI-4H5-BR	155	33	166.5	236	140.5
14562036	GEAR PUMP 113L-BI-4H5-4P	165	33	166.5	246	140.4
14562795	GEAR PUMP 133L-BI-4H-2S	150	-	184.5	225	150

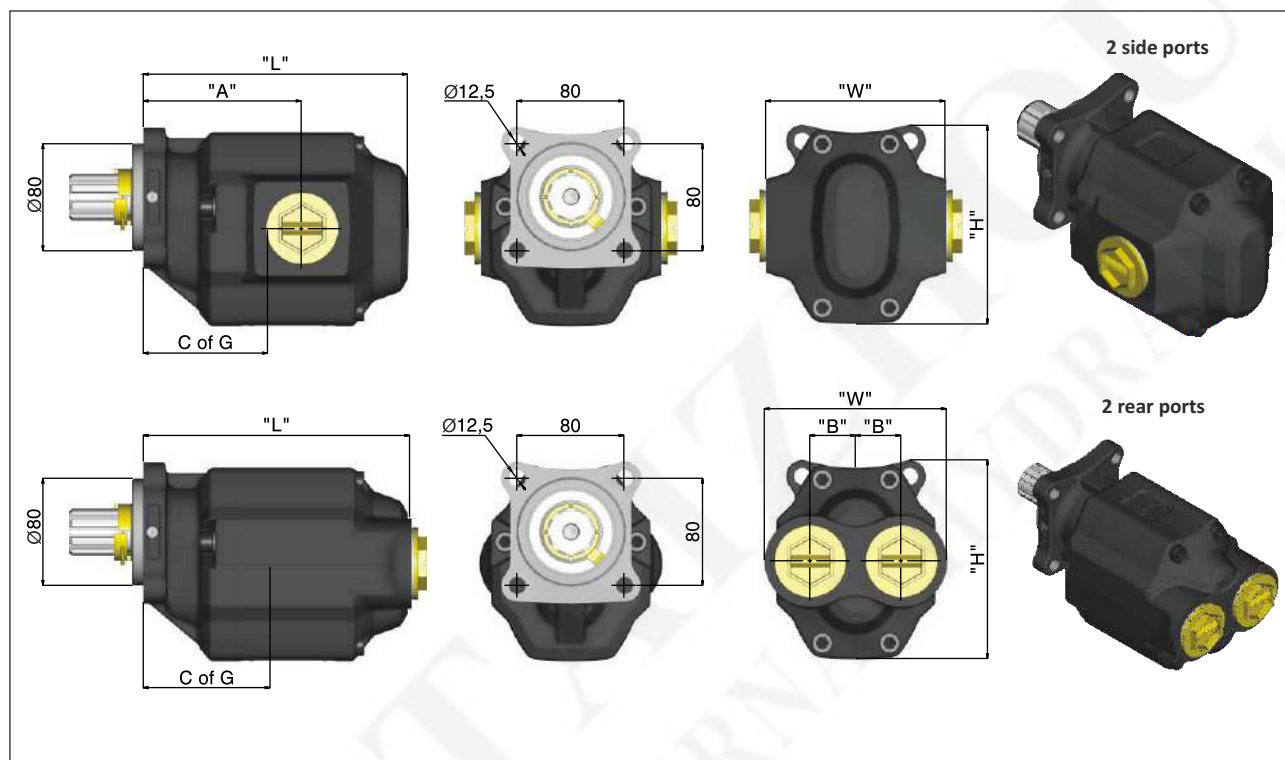
SEAL KITS & AIR BREATHER KIT

Part no.	Description
02460001	SEAL KIT BRITE BI GEAR PUMP 035L TO 061L
02460005	SEAL KIT BI GEAR PUMP 092L-113L 1773063
02460007	SEAL KIT BRITE BI GEAR PUMP 082L TO 100L
02470180	AIR BREATHER KIT FOR SFP 30/35 PUMP



ALPHA GEAR PUMP BI - 4H3 CVP - 2 PORTS

Part no.	Description	Displacement (cm ³)	Weight (kg)	Port configuration	Suction port	Pressure port	Rotation freq. (rpm)	Working pressure (bar)
14571340	GEAR PUMP 085L-BI-4H3-2S	85	14	2 side	G1¼"	G1¼"	2500	250
14571341	GEAR PUMP 085L-BI-4H3-2R	85	14.1	2 rear	G1¼"	G1¼"	2500	250
14571350	GEAR PUMP 105L-BI-4H3-2S	105	15.1	2 side	G1¼"	G1¼"	2250	250
14571351	GEAR PUMP 105L-BI-4H3-2R	105	15	2 rear	G1¼"	G1¼"	2250	250



Part no.	Description	A	B	H	L	W
14571340	GEAR PUMP 085L-BI-4H3-2S	114	-	148.5	184	134
14571341	GEAR PUMP 085L-BI-4H3-2R	-	34	148.5	187	136
14571350	GEAR PUMP 105L-BI-4H3-2S	118	-	148.5	196	134
14571351	GEAR PUMP 105L-BI-4H3-2R	-	34	148.5	199	136

SEAL KITS & AIR BREATHER KIT

Part no.	Description
02460015	SEAL KIT CVP BI GEAR PUMP 085L TO 105L
02470180	AIR BREATHER KIT FOR SFP 30/35 PUMP

Pump - 2 rear ports

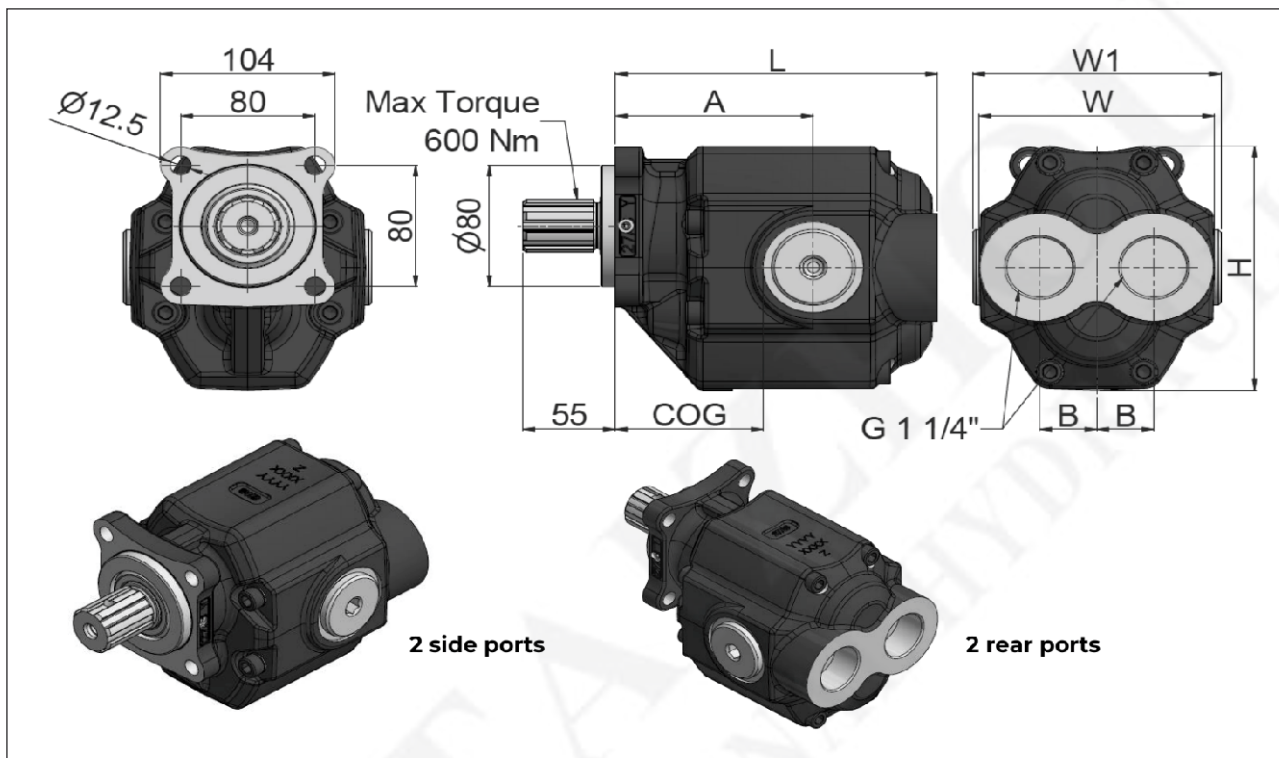


Pump - 2 side ports



ALPHA GEAR PUMP BI - 4H3 CVP - 4 PORTS

Part no.	Description	Displacement (cm ³)	Weight (kg)	Port configuration	Suction port	Pressure port	Rotation freq. (rpm)	Working pressure (bar)
14571360	GEAR PUMP 115L-BI-4H3-4P-20BSP20-250	115	14	2 side / 2 rear	G1½"	G1½"	2000	250
14571365	GEAR PUMP 125L-BI-4H3-4P-20BSP20-250	125	17.98	2 side / 2 rear	G1½"	G1½"	2000	250



Part no.	Description	A	B	H	L	W	W1	COG
14571360	GEAR PUMP 115L-BI-4H3-4P	114	34	160.9	188	140.5	148	94.6
14571365	GEAR PUMP 125L-BI-4H3-4P	118	34	160.9	192	140.5	148	96.7

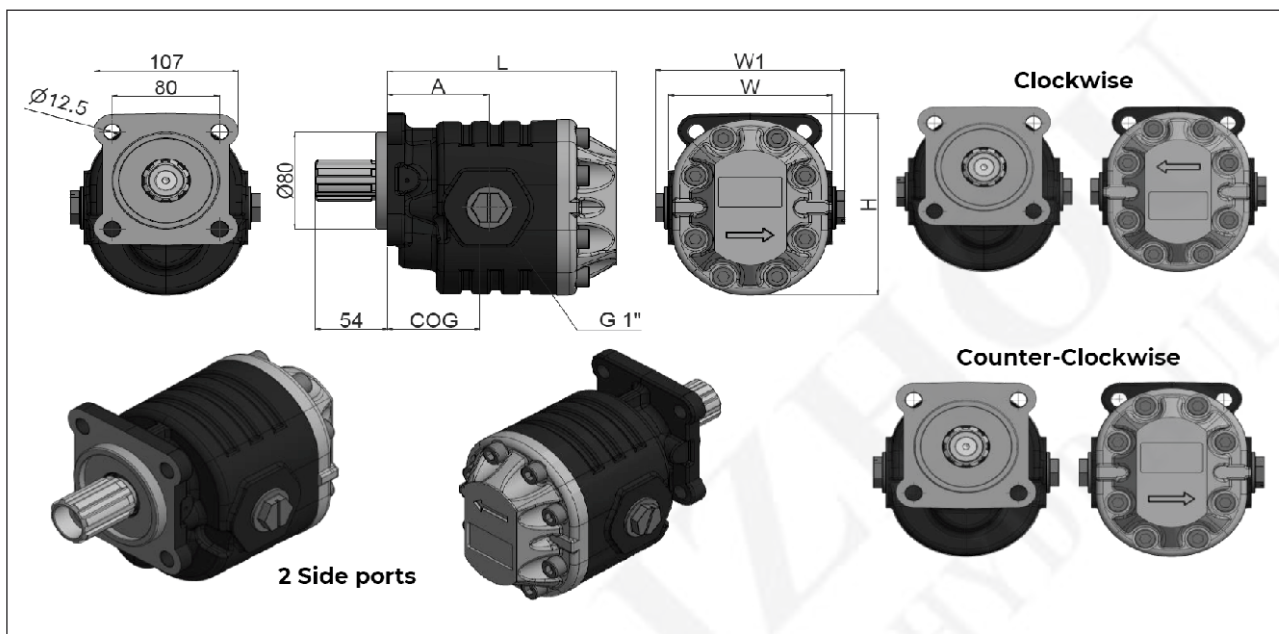
SEAL KITS & AIR BREATHER KIT

Part no.	Description
02460016	SEAL KIT CVP BI GEAR PUMP 115L TO 125L
02470180	AIR BREATHER KIT FOR SFP 30/35 PUMP



GEAR PUMP (GPHY) - 4H0 - 2 PORTS

Part no.	Description	Displacement (cm ³)	Weight (kg)	Port configuration	Suction port	Pressure port	Rotation freq. (rpm)	Working pressure (bar)
14562334	GEAR PUMP 084L-R-4H0-2S-16BSP16	84	12.4	2 side	G1"	G1"	2500	230
14562335	GEAR PUMP 084L-L-4H0-2S-16BSP16	84	12.4	2 side	G1"	G1"	2500	230



Part no.	Description	A	H	L	W	W1	COG
14562334	GEAR PUMP 084L-R-4H0-2S	75.5	154	170.5	122	142	67.3
14562335	GEAR PUMP 084L-L-4H0-2S	75.5	154	170.5	122	142	67.3

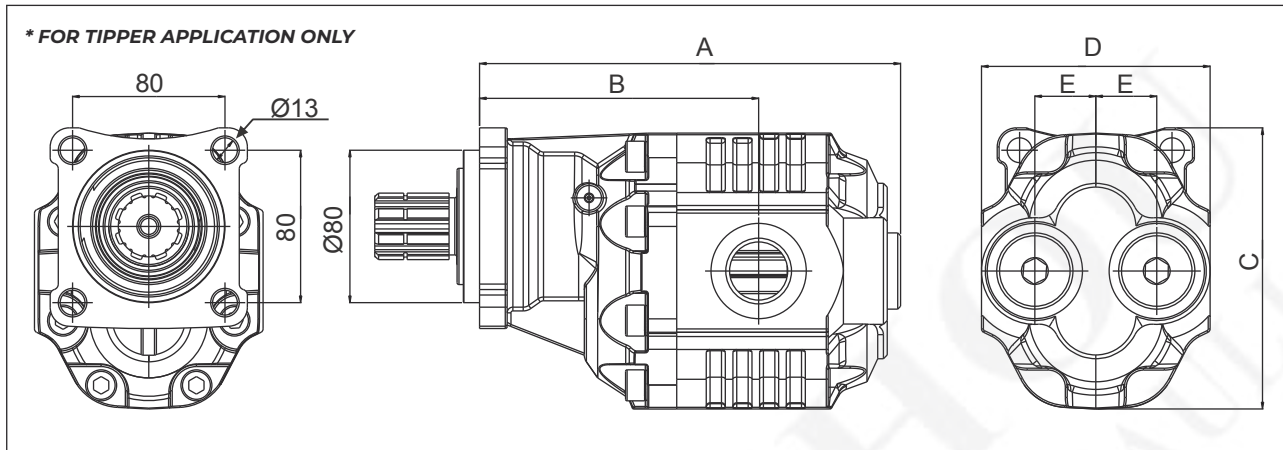
SEAL KITS

Part no.	Description
14600110	SEAL KIT FOR PUMPS 14562334 & 14562335



GEAR PUMPS ISO 4H: BI-ROTATIONAL

Part no.	Description	Displacement (cm ³)	Weight (kg)	Port configuration	Suction port	Pressure port	Rotation freq. (rpm)	Working pressure (bar)
14562325	GEAR PUMP 082L-BI-4H5-4P-16BSP16	82	15	4	G1"	G1"	2500	225



Part no.	Description	A	B	C	D	E
14562325	GEAR PUMP 082L-BI-4H5-4P	221	146.5	148	120	32

SEAL KITS

Part no.	Description
14600100	SEAL KIT FOR PUMP 14562 325

