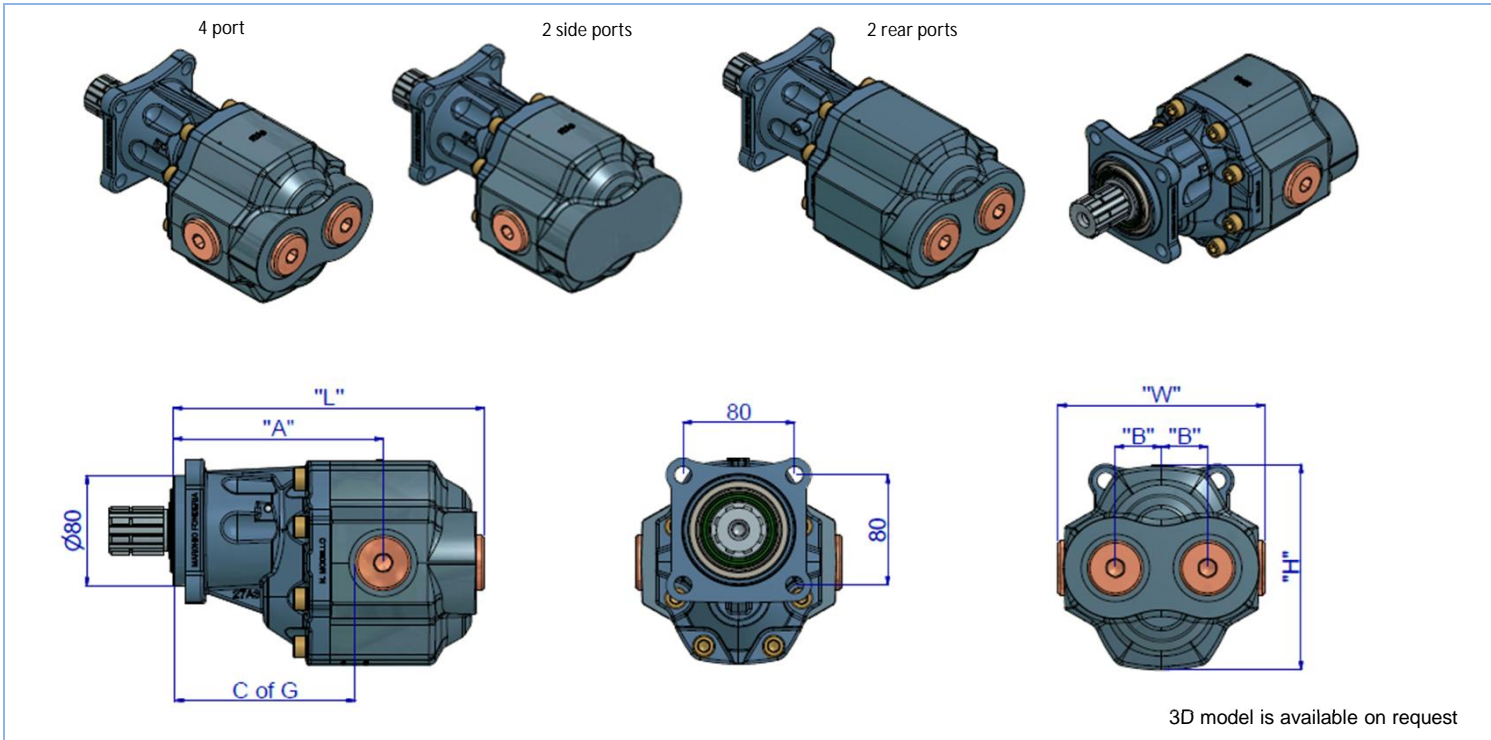


HYVA GEAR PUMP

ALPHA Gear pump 4H ISO



Specifications

	14562005	14562010	14562015	14571224	14562091	14562030	14562093	14562095	14562041	
Displacement per revolution	34,56	51,88	61,26	81,68	81,68	91,56	100,52	100,52	112,85	cm ³
Max. Pressure for tipping applications (intermittent)	275	275	250	250	250	250	250	250	250	bar
Max. continuous pressure	255	255	230	230	230	230	230	230	230	bar
Max. flow (@ max. rpm)	80	119	141	188	188	190	213	213	213	l/m
Mass	12,5	13,5	14	16	16	19	19	19	20,5	kg
Port configuration	4 port	4 port	4 port	2 side	2 rear	4 port	2 rear	2 side	2 rear	
Length pump	L	189	200	206	221,5	221,5	236	239	246	mm
Width pump	W	128	128	128	138	138	140,5	140	140,5	mm
Height pump	H	149,4	149,4	149,4	149,4	149,4	166,5	149,4	166,5	mm
Position side port	A	130,5	132,5	138,5	151,5		155	161	165	mm
Position rear port	B	30	30	30		33	33	33	33	mm
Maximum peak pressure		280	280	260	255	255	255	255	255	bar
Max. speed at intermittent press.		2500	2500	2500	2500	2500	2250	2250	2000	rpm
Min. speed at intermittent press.		300	300	300	300	300	400	400	400	rpm
Oil temperature range		min -40	min -40	min -40	min -40	min -40	min -40	min -40	min -40	°C
		max 80	max 80	max 80	max 80	max 80	max 80	max 80	max 80	°C
Inlet pressure range (suction side)		min 0,7	min 0,7	min 0,7	min 0,7	min 0,7	min 0,7	min 0,7	min 0,7	bar
		max 3	max 3	max 3	max 3	max 3	max 3	max 3	max 3	bar
Recommended oil viscosity range		min 12	min 12	min 12	min 12	min 12	min 12	min 12	min 12	mm ² /s
		max 100	max 100	max 100	max 100	max 100	max 100	max 100	max 100	mm ² /s
Maximum starting viscosity		750	750	750	750	750	750	750	750	mm ² /s
Min. Filtration		25	25	25	25	25	25	25	25	µm
Connection:										
inlet - straight internal thread		3/4	1	1	1	1 1/4	1 1/4	1 1/4	1 1/4	BSP
outlet - straight internal thread		3/4	1	1	1	1 1/4	1 1/4	1 1/4	1 1/4	BSP
Minimum suction hose bore diameter		1 1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	inch
Shaft DIN 5462		8*32*36	8*32*36	8*32*36	8*32*36	8*32*36	8*32*36	8*32*36	8*32*36	mm
Centre of gravity distance (CofG)		99,3	105,2	106,5	117,8	117,8	126	128	131	mm
Noise level at 1000 min-1 and 100 bar		62,5	62,6	65,1	66,6	66,6	64,8	66,6	66,6	dB
noise level at 1500 min-1 and 100 bar		67,6	67,5	69,4	71	71	68,3	69,5	69,5	dB

Technical notes

• The mentioned data on page 1 is for mineral based oil, for other fluids please contact our engineering dept. • The filtration as mentioned is for tippers only. For different application we advise filtration according ISO 4406 class 17/14. • To avoid the cavitation, the suction hose must be kept as short and straight as possible, and the minimum oil level in the oil tank must be above the inlet of the pump. • Paint spec: TNO00_00001

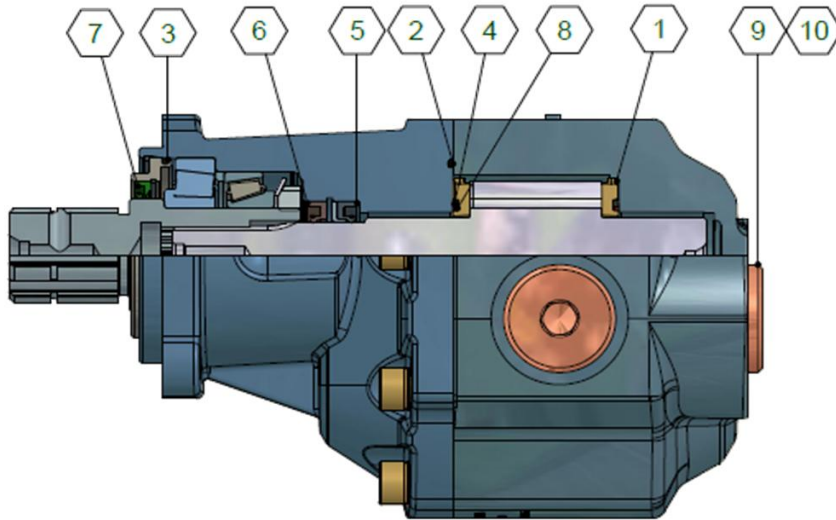
Related documents

Mounting Instructions: PUM-0020

Oil Specifications: OIL-0011

HYVA GEAR PUMP

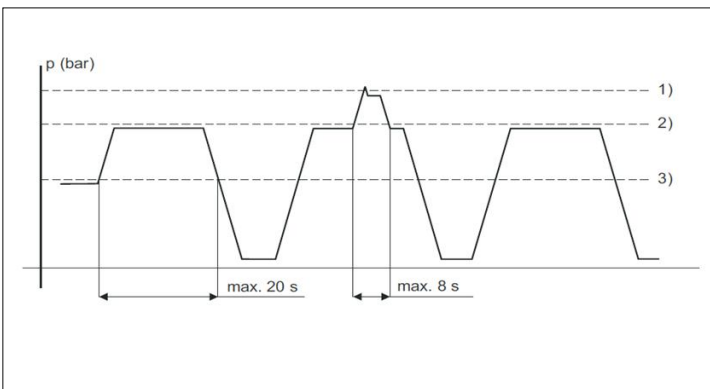
ALPHA Gear pump 4H ISO



Spare parts

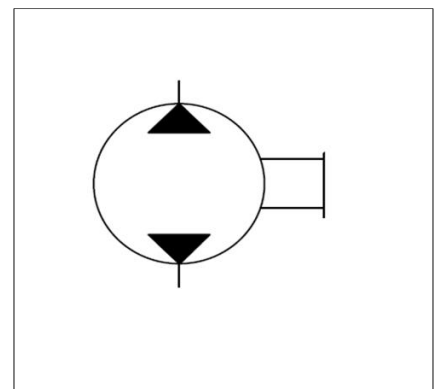
Description	35cc	52cc	61cc	82cc	92cc	100cc	113cc
Seal kit (parts: 2, 3, 4, 5, 6, 7 & 8)	02460000	02460000	02460000	02460000	02460005	02460007	02460005
1 Thrust plate	02059415	02059415	02259400	02259400	02259405	-	02259405
2 OR-seal	02391720	02391720	02391720	02391720	02391721	02391720	02391721
3 O-ring	02395800	02395800	02395800	02395800	-	02395800	-
4 seal	02396570	02396570	02396570	02396570	02396571	02396570	02396571
5 shaft seal	02404819	02404819	02404819	02404819	02404826	02404819	02404826
6 shaft seal	02404825	02404825	02404825	02404825	02404841	02404825	02404841
7 shaft seal	02391675	02391675	02391675	02391675	02404839	02391675	02404839
8 back-up ring	02396527	02396527	02396527	02396527	02396528	02396527	02396528
9 Bonded Seal	01206850	01313848	01313848	01313848	01206874	01206874	01206874
10 Steel plug	01702841	01702853	01702853	01702853	01702856	01702856	01702856
11 leak indicator kit	02470180	02470180	02470180	02470180	02470180	02470180	02470180

Pressure definition

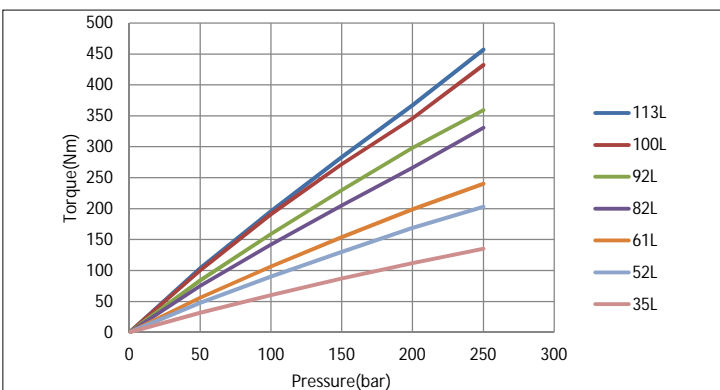


- P1** = Peak Pressure
- P2** = Intermittent Pressure
- P3** = Continuous Pressure

hydraulic pump symbol

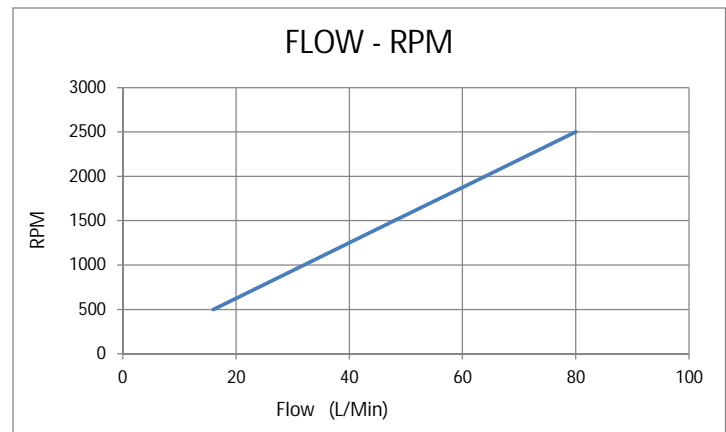
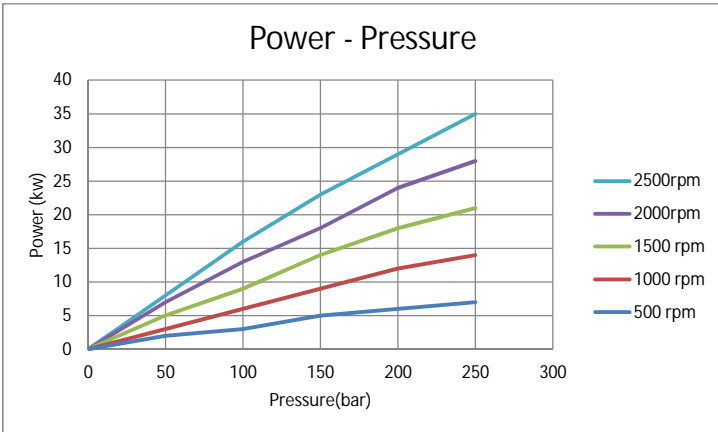


Torque - Pressure characteristics

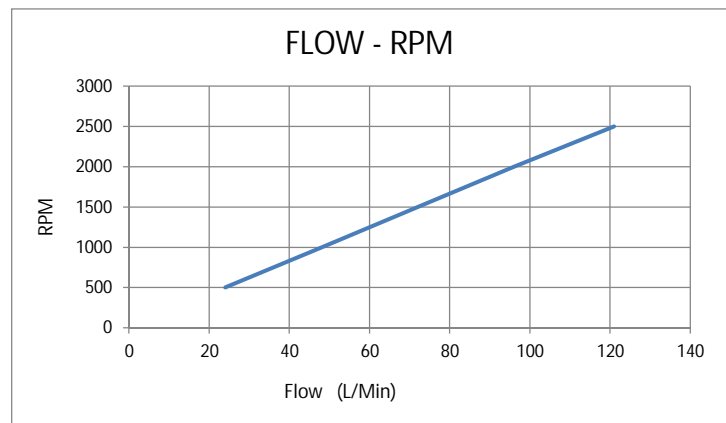
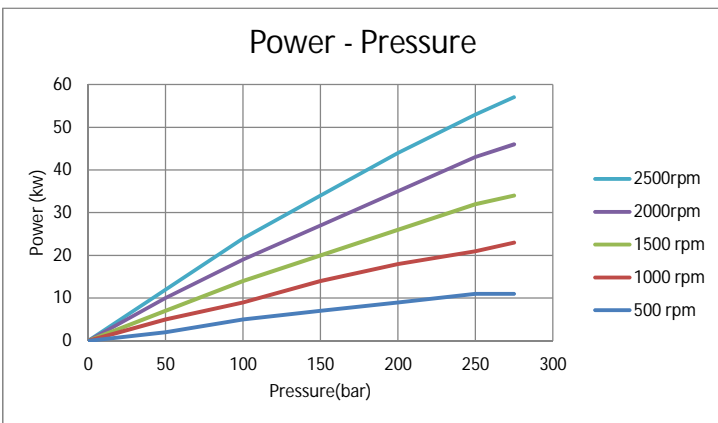


Repair instructions: PUM-0006 (35cc to 82 cc) / 0009 (92 cc to 113 cc)

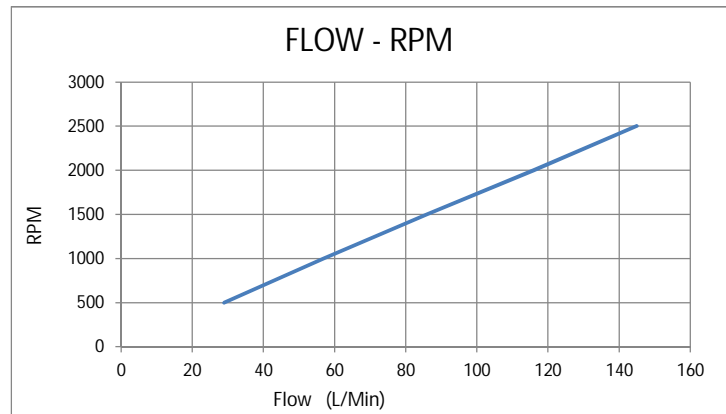
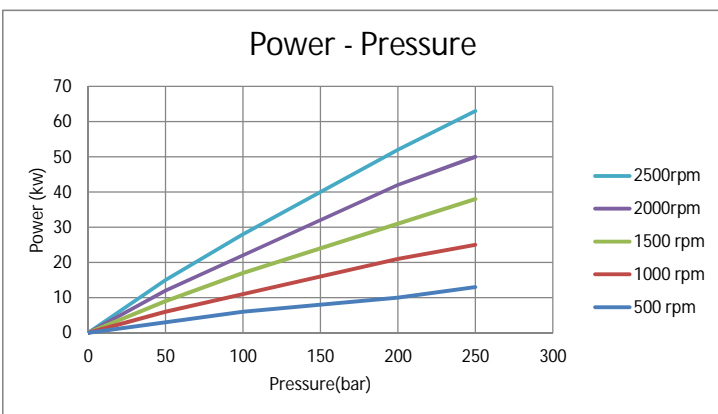
35 cc (145620005)



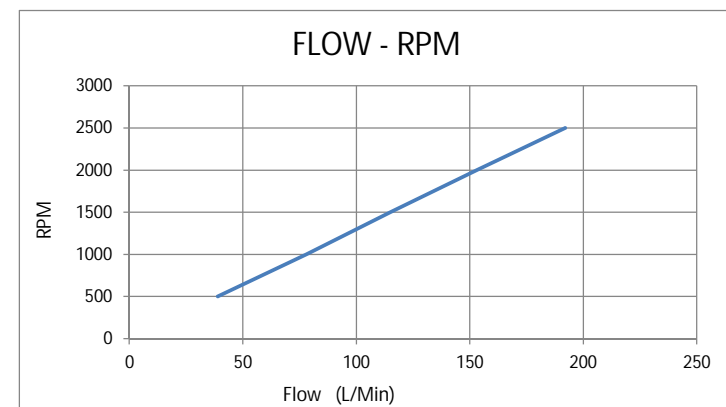
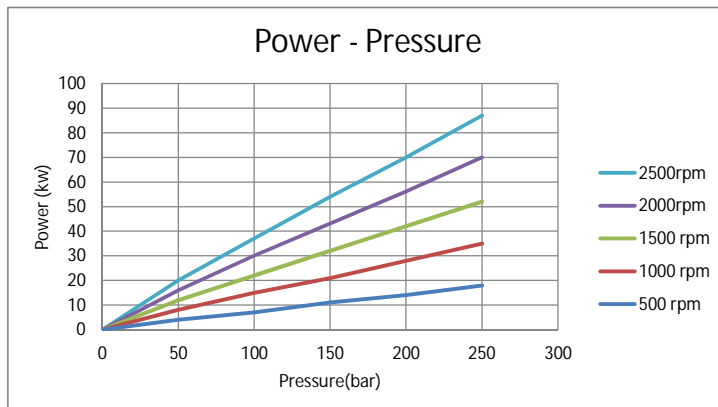
52 cc (14562010)



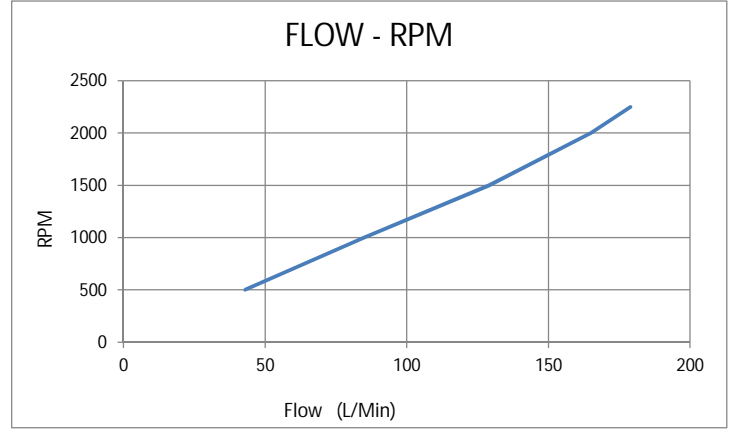
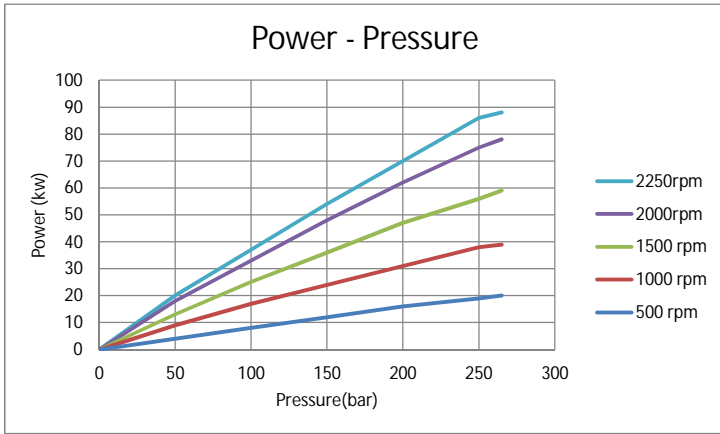
61 cc (14562015)



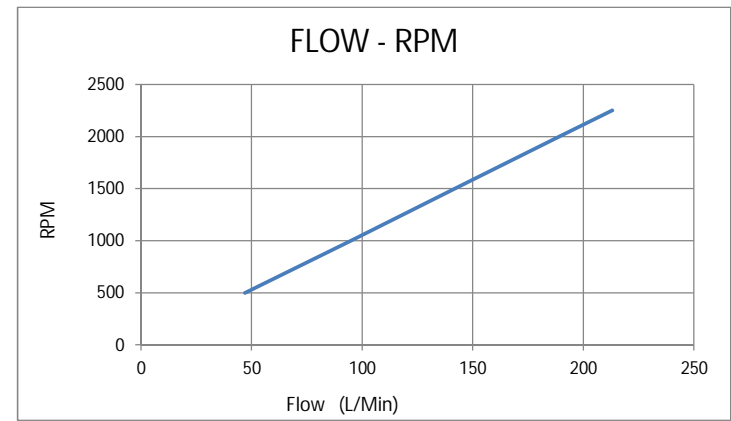
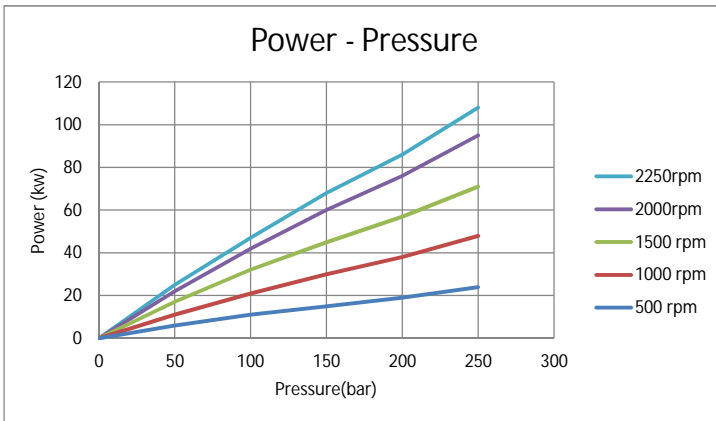
82 cc (14571224 & 14562091)



92 cc (14562030)



100 cc (14562093 & 14562095)



113 cc (14562041)

