

OILPOWER

HYDRAULIC GEAR PUMP

INDEX

1.	FEATURE OF PUMPS	02
2.	SERIES OP	05
3.	SERIES 1P	09
4.	SERIES 2P	14
5.	SERIES 3P	19
6.	TANDEM OP+OP	24
7.	TANDEM 1P+ 1P	25
8.	TANDEM 2P+1P	26
9.	TANDEM 2P+2P	27
10.	TANDEM 2P+3P	28
11.	TANDEM 3P+3P	29
12.	TANDEM COMBINATION.	30

OILPOWER

HYDRAULIC GEAR PUMP

FEATURES OF OILPOWER HYDRAULIC GEAR PUMPS

PERFORMANCE:

OILPOWER has wide range of GEAR PUMPS for mobile and industrial use; We developed these pumps with 100% indigenous raw material and proven manufacturing process.

BASIC RANGE:

OILPOWER GEAR PUMPS available for industrial use in different sizes flow of 1.2 liter/min to 227.0 liter/min. We also make special pumps.

EFFICIENT GEAR PUMP:

High quality of gears to minimizes leakages across gear tips, high precise geometrical tolerance of body and bearing blocks with seals for high volumetric efficiency. Specially designed thrust bearing bush gives low noise; Du-lined/bi-metal bearings for jerk less operation and working against High mechanical Loads operating up to 200 bar and up to 3000 rpm.

DURABILITY:

ALL OILPOWER GEAR PUMPS are backed by full 3 months warranty. High tensile aluminum alloy are used to ensure maximum fatigue strength, Through body bores enable precise alignment of the bearings and hence maximum bearings load capacity, Careful attention to machining details and surface finishes, holds wear rates to a minimum and promotes an extended operating life. We have been designed to perform with a wide range of fluids and can be supplied with nitrile and viton seals as required.

DRIVES:

Use of a flexible coupling is recommended to accommodate any slight misalignment of shaft and to dampen vibration. Splines must allow sufficient radial movement. Two couplings are necessary to ensure radial alignment. Both parallel and taper shaft units are supplies with a shaft key; the parallel shaft keys must be fitted when the coupling is assembled. On no account must the key of coupling be fitted, or removed by hammering or levering, This will damage the pump internally.

OILPOWER

HYDRAULIC GEAR PUMP

MOUNTING:

The pump may be mounted in any position; The units are supplied with either two or four bolt flanges and with a spigot for location. The fixture that receives the mounting flange spigot should have 1 mm 45 chamfer to ensure proper installation. To minimize vibration, which can be transmitted to the pump by rigid runs, it is good practice to use flexible hose immediately connected to the unit ports.

ROTATION:

Inlet and Rotation arrows are stamped on the unit body, adjacent to drive shaft rotation.

PUMP SUCTION LINE:

The suction line must be as large as possible and should be free from sharp bands to prevent excessive suction head, which should in no case exceed 1900 mm if mercury (0.24bar) below atmospheric pressures. The system should be designed to prevent entry of air and a positive head of oil should be maintained wherever possible. Lower pressures during cold start-up conditions are permissible for short periods.

As a general guide, fluid velocity in the pump suction line should not exceed 2m/sec. For pipe lengths up to 2 meters. Inlet and Rotation arrows are stamped on the unit body, adjacent to drive shaft rotation

OIL RESERVOIR:

As a general, the reservoir capacity for industrial applications should be three to five times the open loop-flow per minute being drawn from the reservoir. For mobile applications the reservoir should be sized for not less than 0.75 times the loop flow. The pump suction line should draw oil from a point not less than 100 mm above the tank bottom to avoid sludge deposits from entering the pump. The return line should be submerged to limit frothing of oil. The suction and return connections should be positioned as far apart as possible and separated by baffles, so that oil circulations promoted within the tank to assist convection cooling and allow air entrained in the oil to dissipate.

FILTRATION:

The fluid should be filtered during top-up and maintain a cleanliness level of ISO 176/14. The recommendation should be considered a minimum. Better Cleanliness levels will significantly increase component life.

Each system should be analyzed to determine the proper method of filtration needed to maintain the required cleanliness levels, depending on the configuration and complexity of the system.

OILPOWER

HYDRAULIC GEAR PUMP

FLUIDS:

Most premium grade mineral oil based hydraulic fluids are suitable for use with OILPOWER Gear Pumps. A primary consideration in the selection of Hydraulic Fluid is expected oil temperature extremes that will be experienced in service. When choosing the Hydraulic fluid, these temperature extremes must be considered to obtain the most suitable temperature-viscosity characteristic. For optimum performance, the viscosity should be maintained in the 97-456 SUS (20-100-cST) range. Limited viscosities of 4545 (1000cST) maximum and 52 SUS (8-cST) minimum should not be exceeded. It may be possible in some application to run on other types of special fluids.

OPERATING TEMPERATURE RANGE:

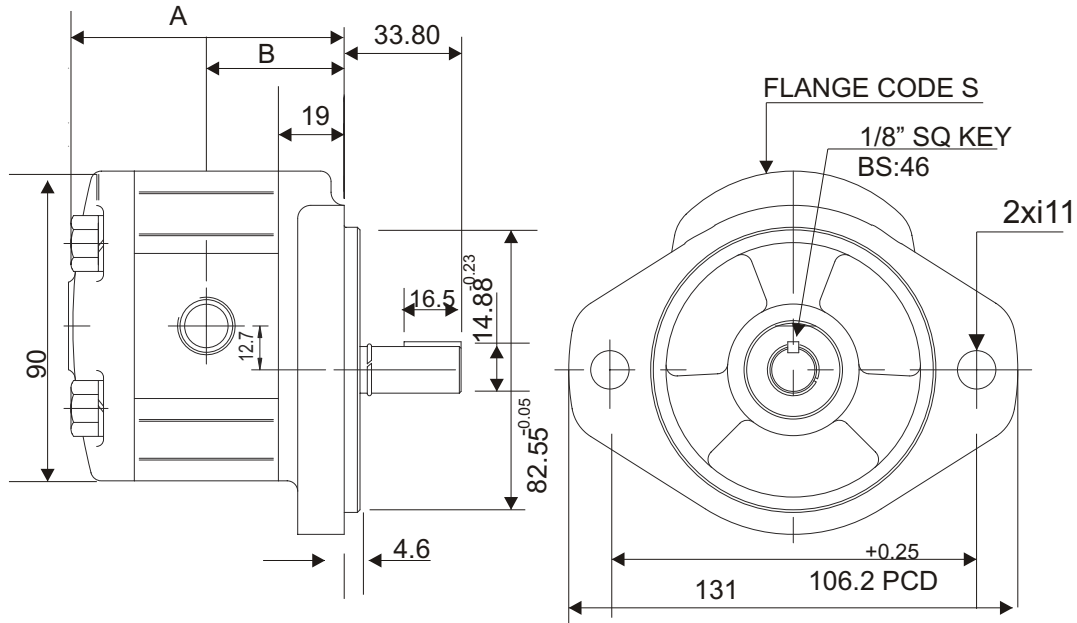
The pumps are designed to operate between 0 and 80 C intermittent temperatures may vary between -20 to 100 C if the fluid being suitable.

OILPOWER

HYDRAULIC GEAR PUMP

SERIES OP

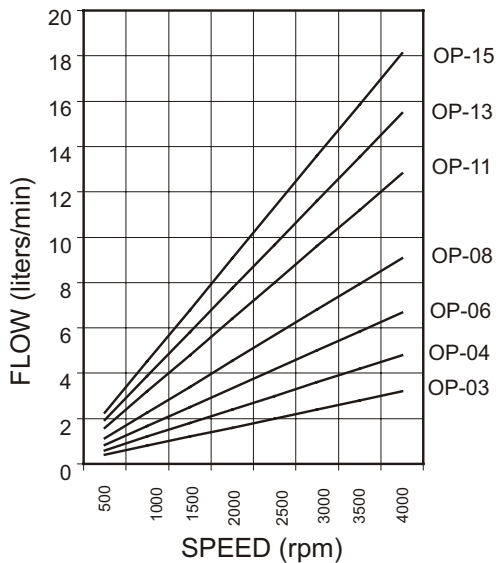
INSTALLATION DATA



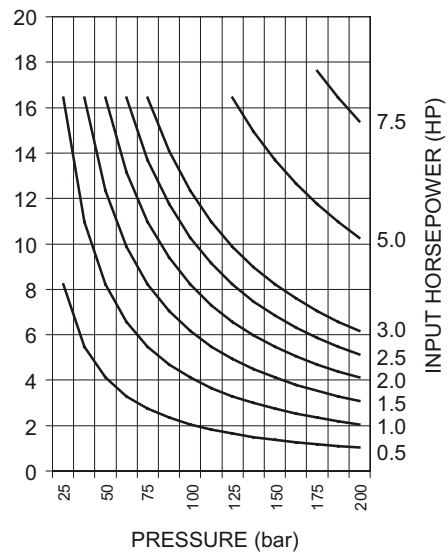
PUMP TYPE	DIMENSION A	DIMENSION B
OP-03	77.9	38.5
OP-04	78.5	38.8
OP-06	79.5	39.3
OP-08	80.9	40.0
OP-11	83.0	41.0
OP-13	84.6	41.8
OP-15	85.9	42.5

TYPICAL PERFORMANCE

PUMP DELIVERY AT MAX. PRESSURE



INPUT HORSEPOWER



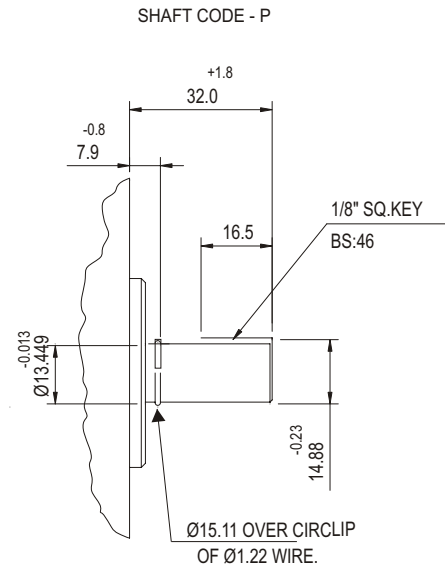
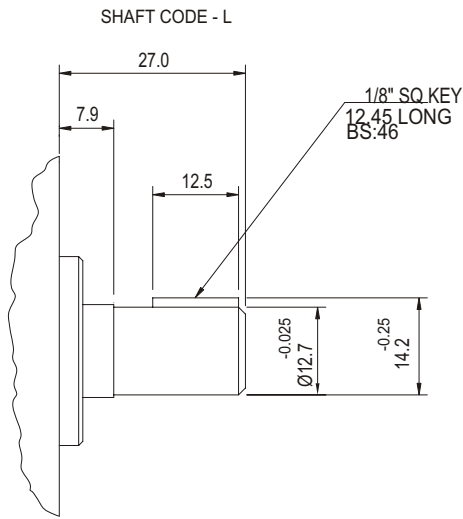
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

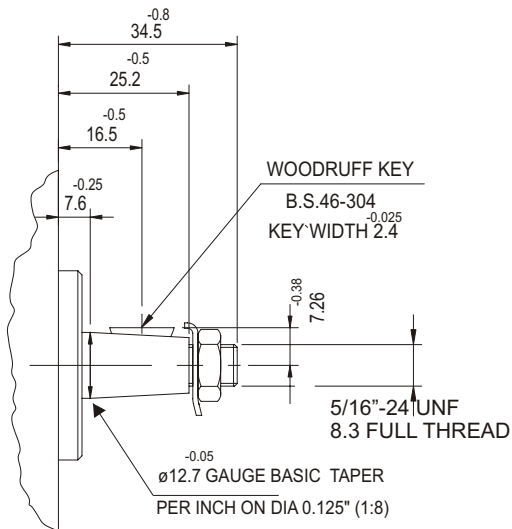
HYDRAULIC GEAR PUMP

SERIES OP

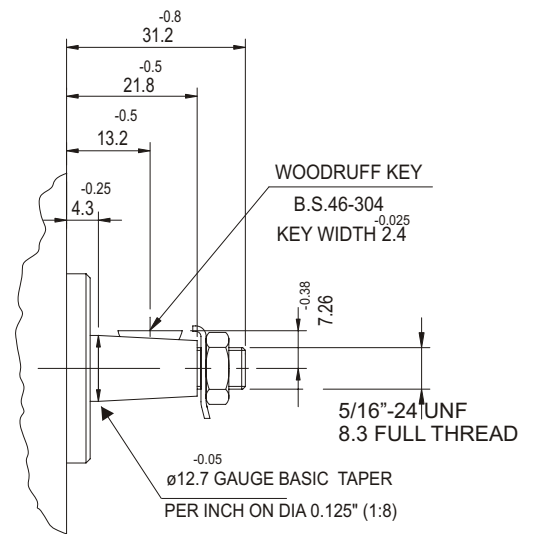
DRIVE SHAFT



SHAFT CODE - T
FOR FLANGE CODE - D



SHAFT CODE - T
FOR FLANGE CODE - S



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

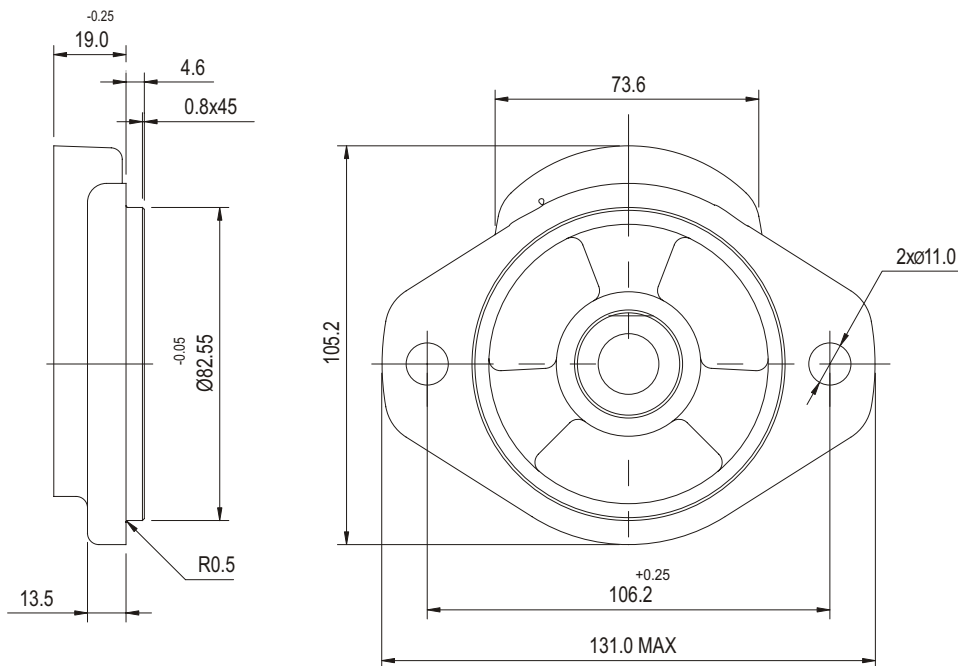
OILPOWER

HYDRAULIC GEAR PUMP

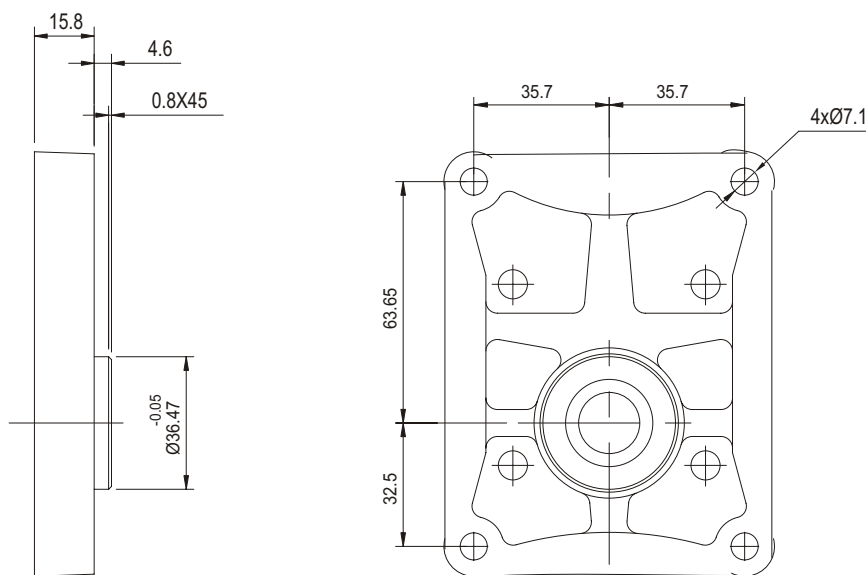
SERIES OP

MOUNTING FLANGE

CODE - S



CODE - D



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

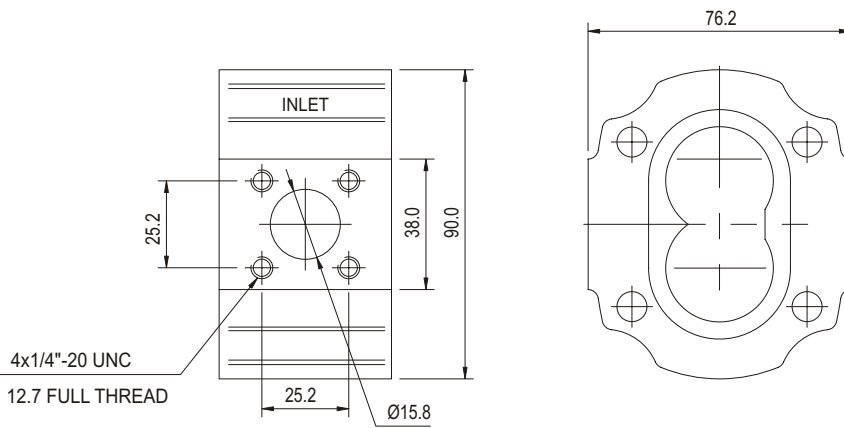
OILPOWER

HYDRAULIC GEAR PUMP

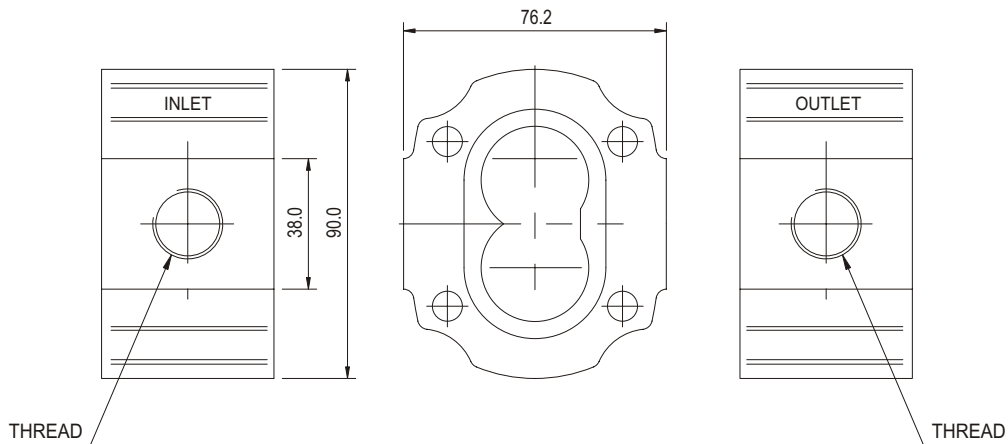
SERIES OP

BODY PORT

CODE - F



CODE - T



INLET AND OUTLET PORTS

3/8" BSP FOR PUMP TYPES OP-03 TO OP-11

1/2" BSP FOR PUMP TYPES OP-13 TO OP-15

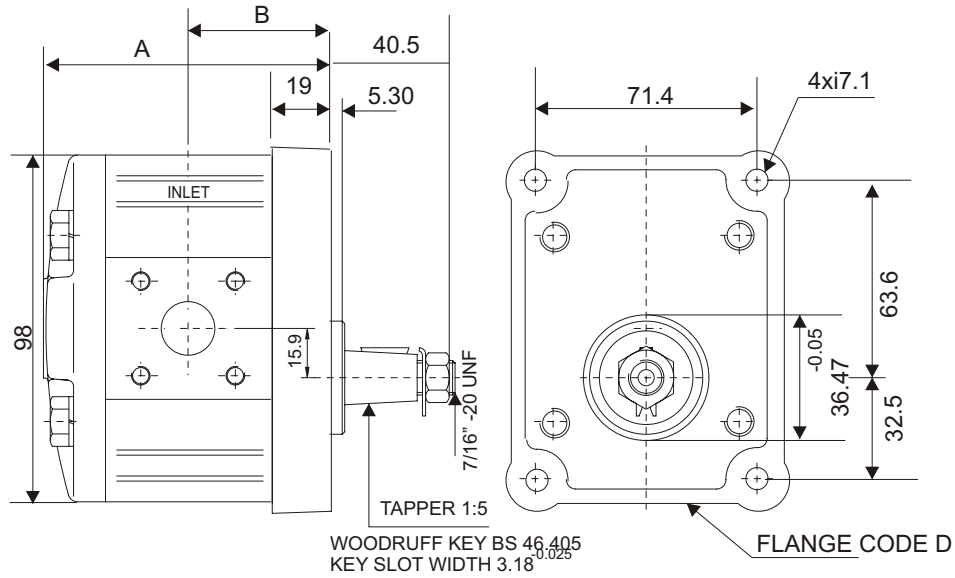
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

SERIES 1P

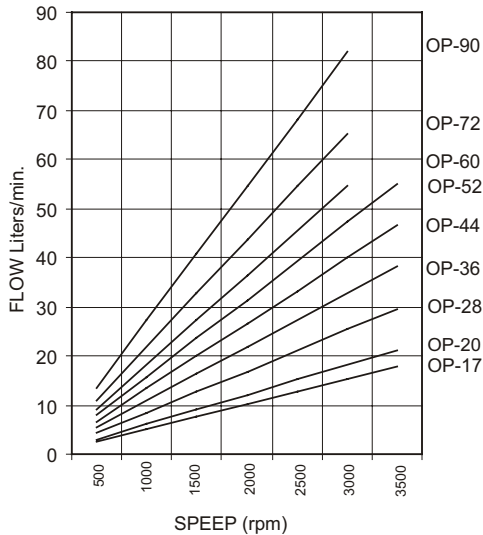
INSTALLATION DATA



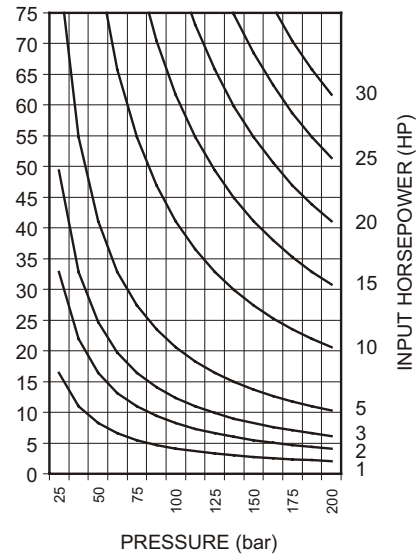
PUMP TYPE	DIMENSION A	DIMENSION B
OP-17	86.0	42.5
OP-20	87.0	43.0
OP-28	90.1	44.5
OP-36	92.2	45.6
OP-44	111.5	55.3
OP-52	113.1	56.0
OP-60	116.3	57.6
OP-72	120.3	59.6
OP-90	127.3	63.1

TYPICAL PERFORMANCE

PUMP DELIVERY AT MAX. PRESSURE



INPUT HORSEPOWER



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

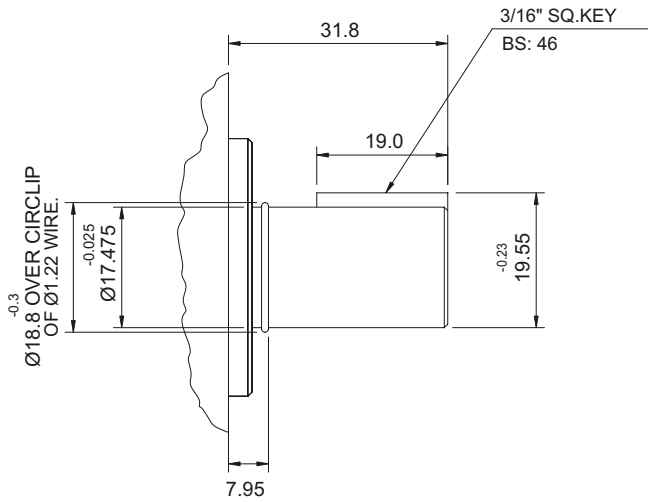
OILPOWER

HYDRAULIC GEAR PUMP

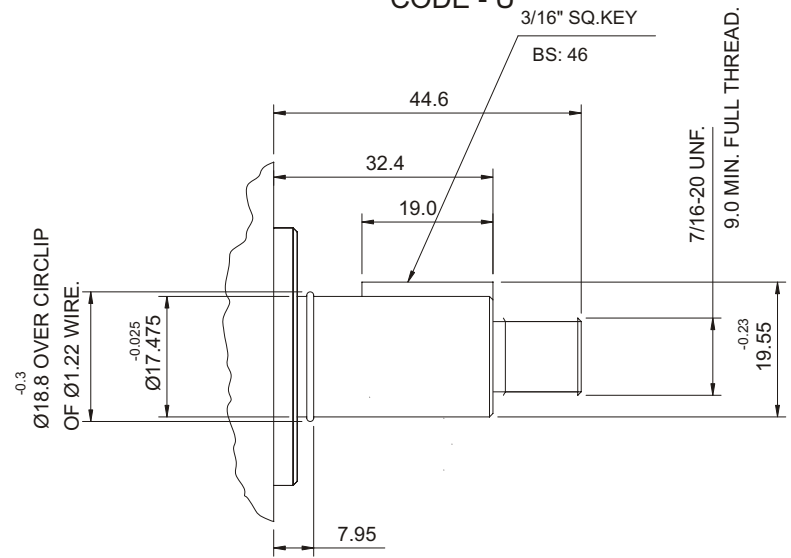
SERIES 1P

DRIVE SHAFT

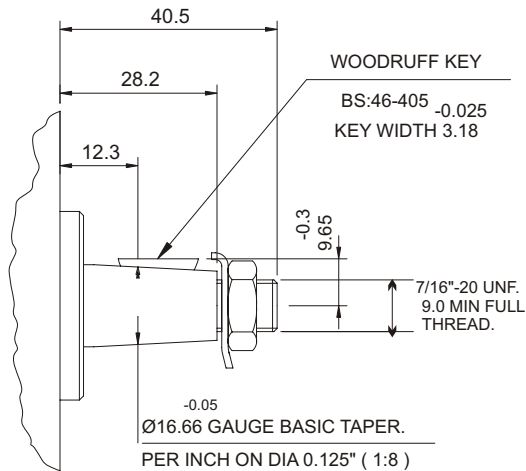
CODE - P



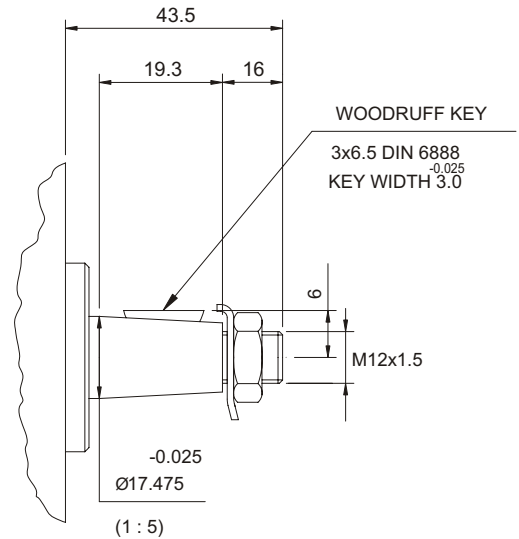
CODE - U



CODE - T



CODE - K



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

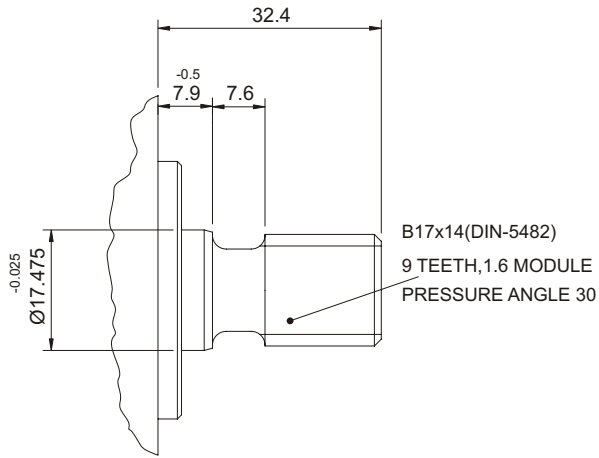
OILPOWER

HYDRAULIC GEAR PUMP

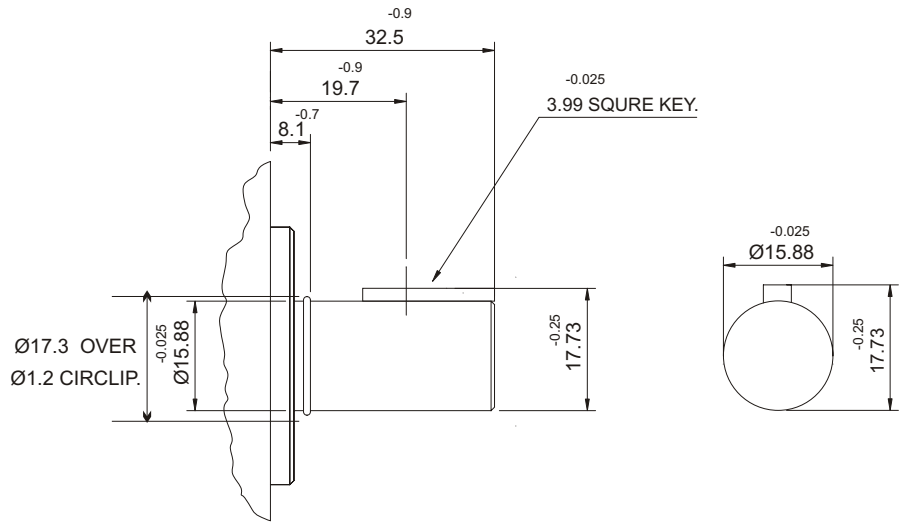
SERIES 1P

DRIVE SHAFT

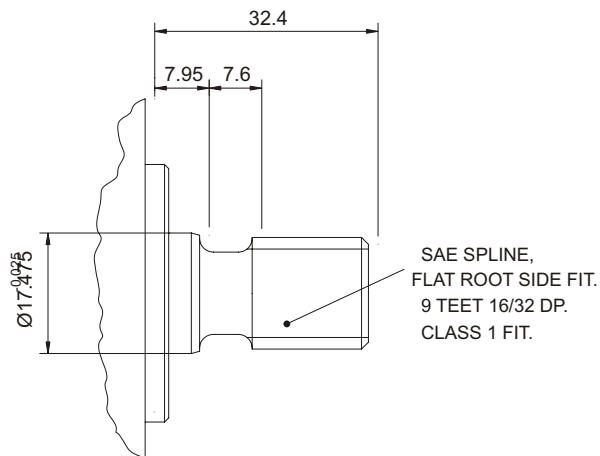
CODE - D



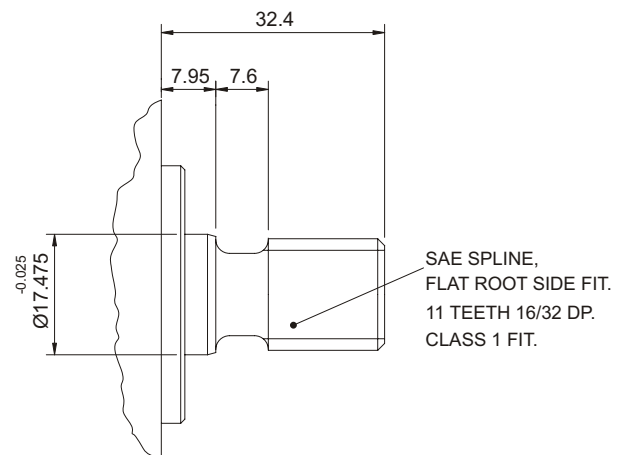
CODE - L SAE - A



CODE - S



CODE - G



FOR OTHER TYPES OF DRIVE SHAFTS PLEASE CONTACT US.

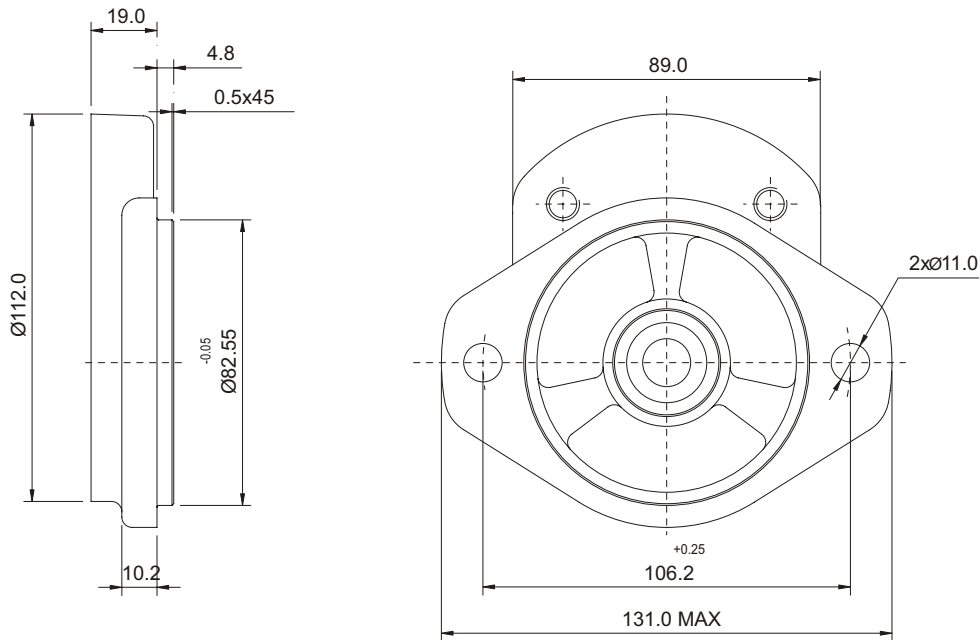
OILPOWER

HYDRAULIC GEAR PUMP

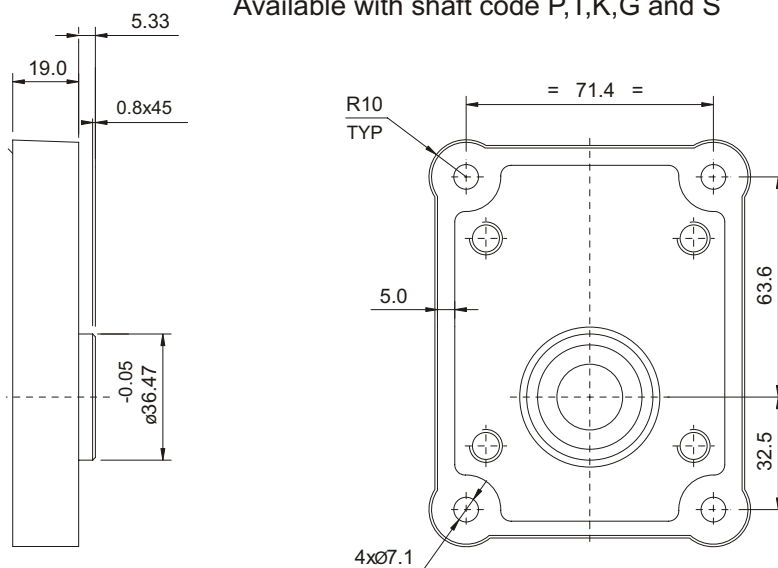
SERIES 1P

MOUNTING FLANGE

CODE - S SAE- 2 BOLTS
Available with shaft code P,T,K,G and S



CODE - D FOUR BOLT
Available with shaft code P,T,K,G and S



FOR OTHER TYPES OF MOUNTING
DRAWING PLEASE CONTACT US.

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

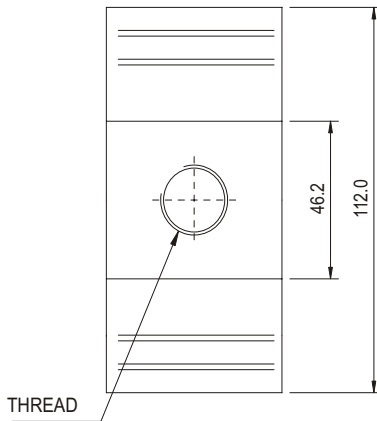
OILPOWER

HYDRAULIC GEAR PUMP

SERIES 1P

BODY PORT

CODE - T



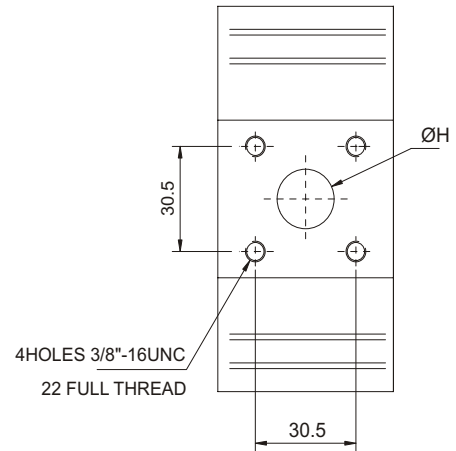
INLET SIZE

1/2" BSP FOR PUMP TYPES OP-17 TO OP-28
3/4" BSP FOR PUMP TYPES OP-36 TO OP-90

OUTLET SIZE

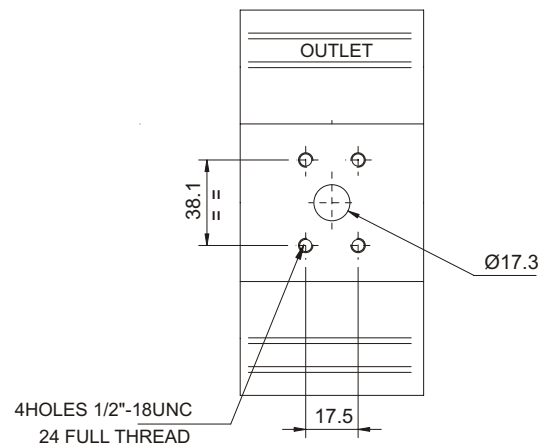
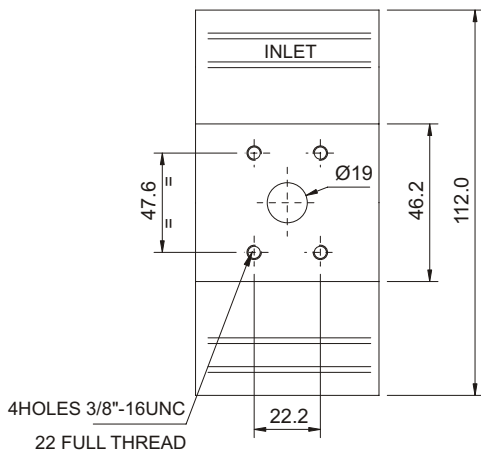
1/2" BSP FOR PUMP TYPES OP-17 TO OP-28
3/4" BSP FOR PUMP TYPES OP-44 TO OP-90

CODE - F



INLET & OUTLET PORTS ARE IDENTICAL.
 $\varnothing H=17.3$ PUMP TYPES 1P3017 TO 3036
 $\varnothing H=20.3$ PUMP TYPES 1P3044 TO 3090

CODE - S



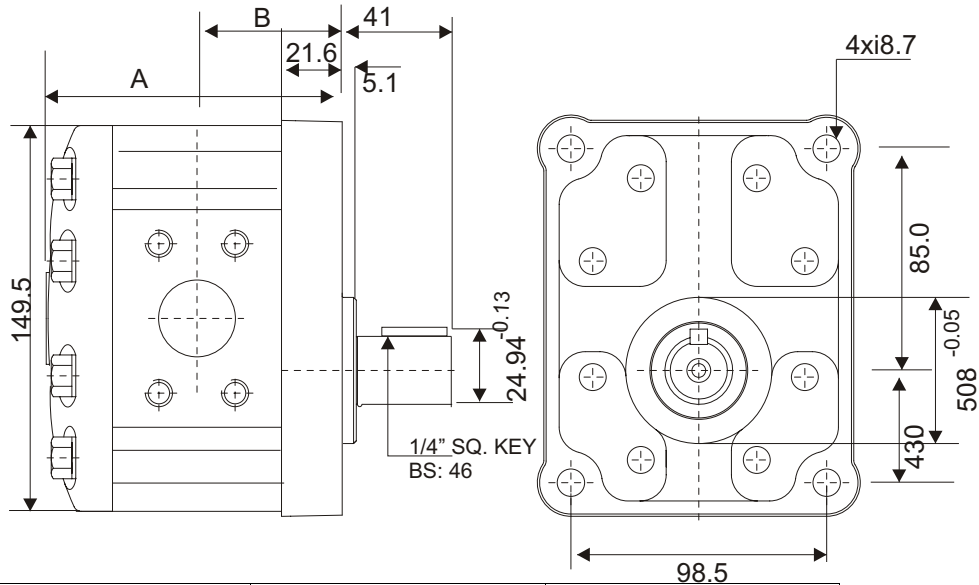
FOR OTHER TYPES OF PORTS LIKE EUROPEAN AND SEPCIAL
PLEASE CONTACT US.

OILPOWER

HYDRAULIC GEAR PUMP

SERIES 2P

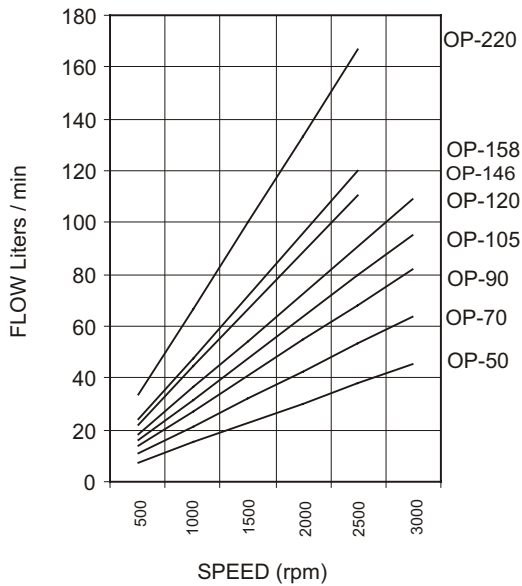
INSTALLATION DATA



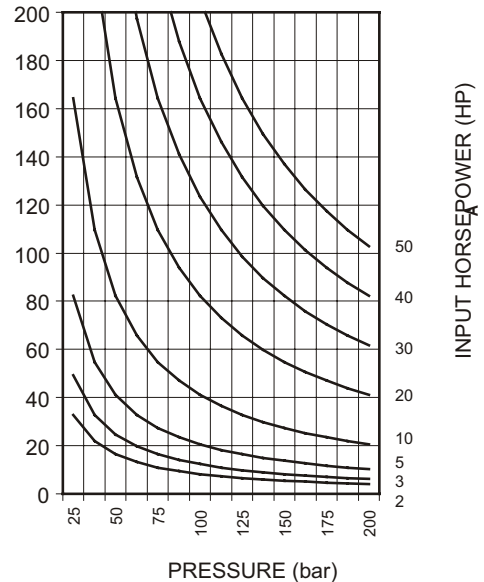
PUMP TYPE	DIMENSION A	DIMENSION B
OP-50	114.0	55.3
OP-70	118.8	57.7
OP-90	123.6	60.1
OP-105	141.2	68.9
OP-120	144.8	70.7
OP-146	151.7	74.1
OP-158	154.0	75.3
OP-220	168.8	82.7

TYPICAL PERFORMANCE

PUMP DELIVERY AT MAX. PRESSURE



INPUT HORSEPOWER



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

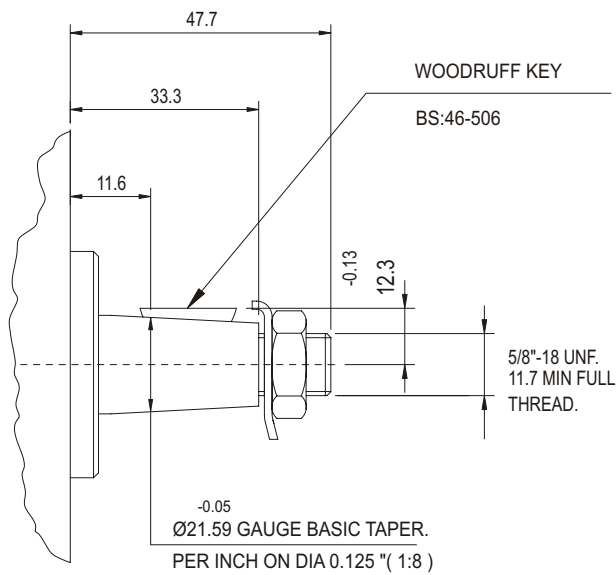
OILPOWER

HYDRAULIC GEAR PUMP

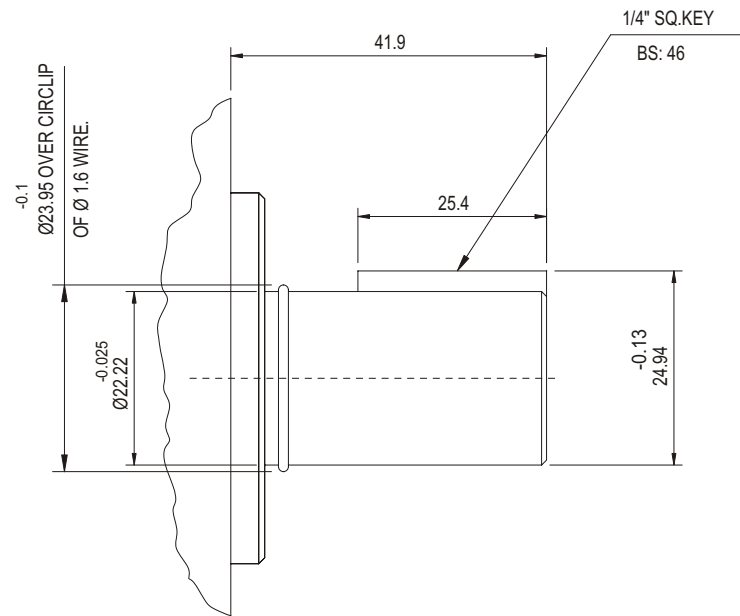
SERIES 2P

DRIVE SHAFT

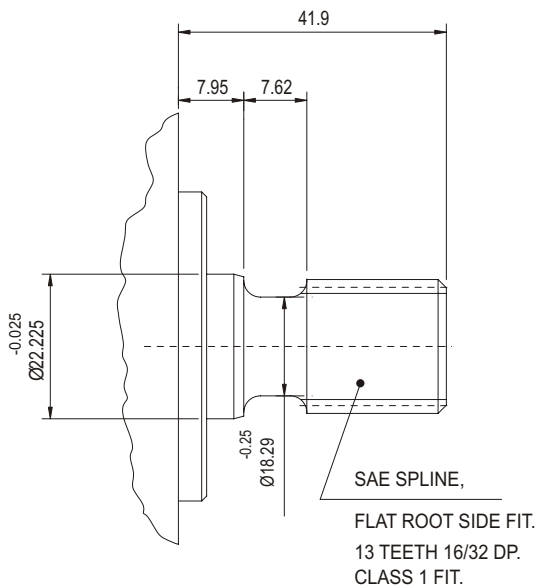
CODE - T



CODE - P



CODE - S



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

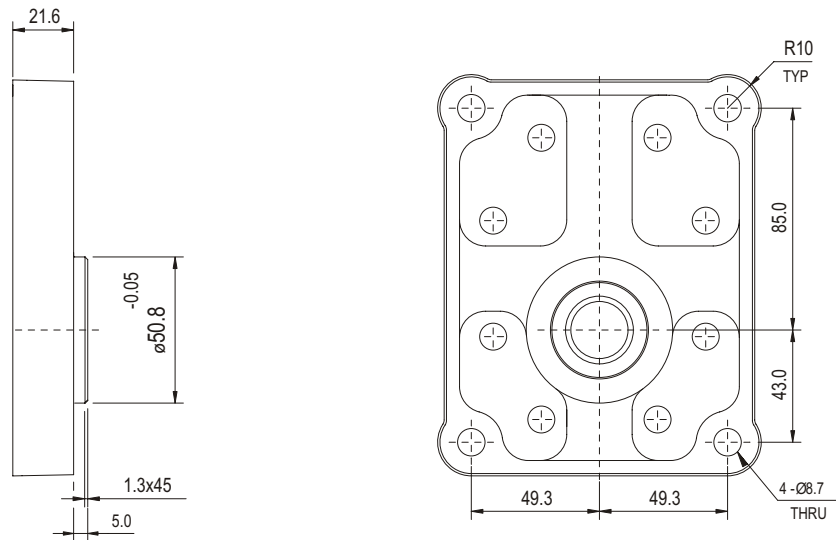
OILPOWER

HYDRAULIC GEAR PUMP

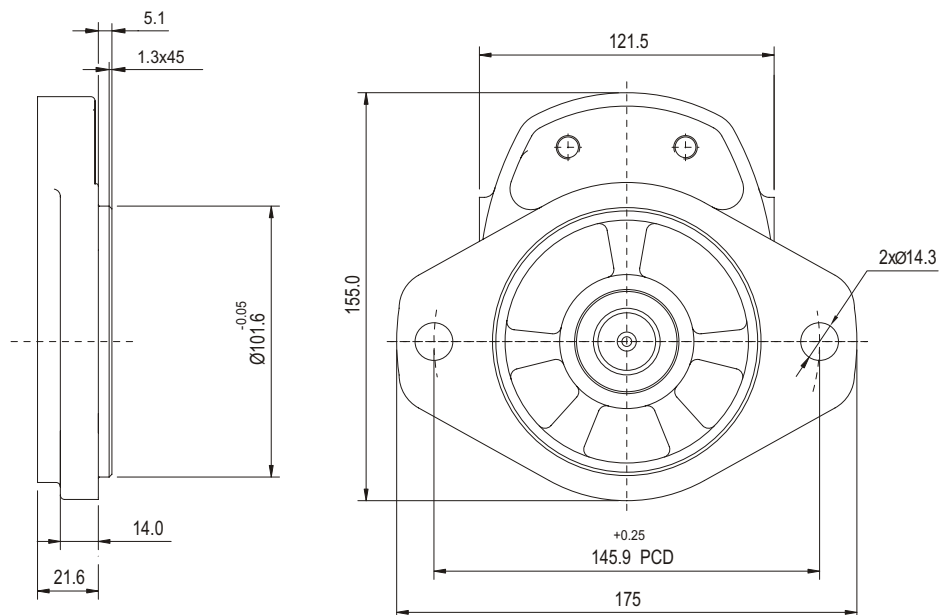
SERIES 2P

MOUNTING FLANGE

CODE - D



CODE - S



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

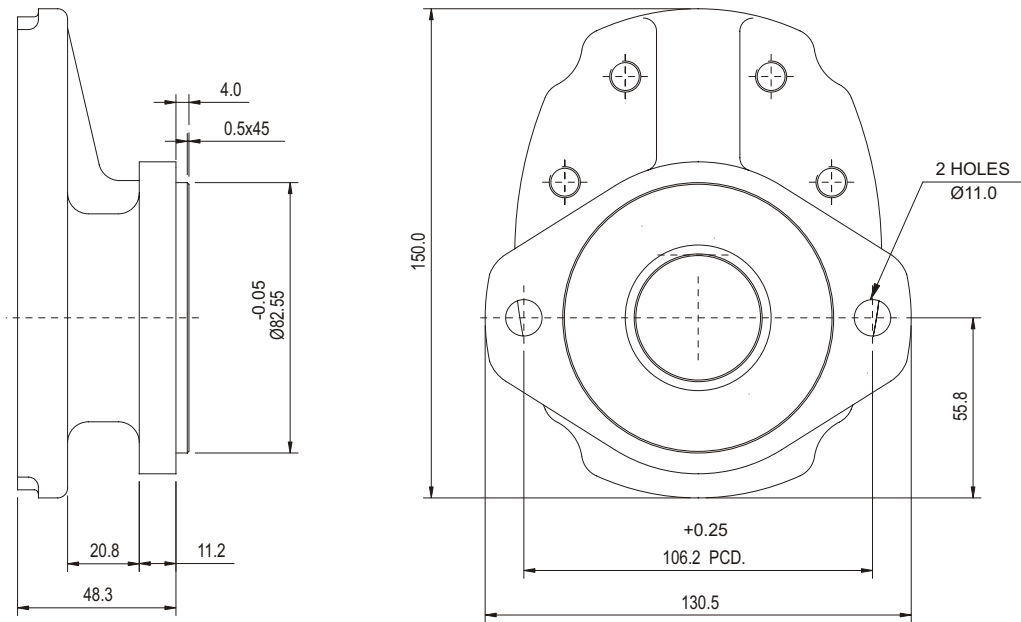
OILPOWER

HYDRAULIC GEAR PUMP

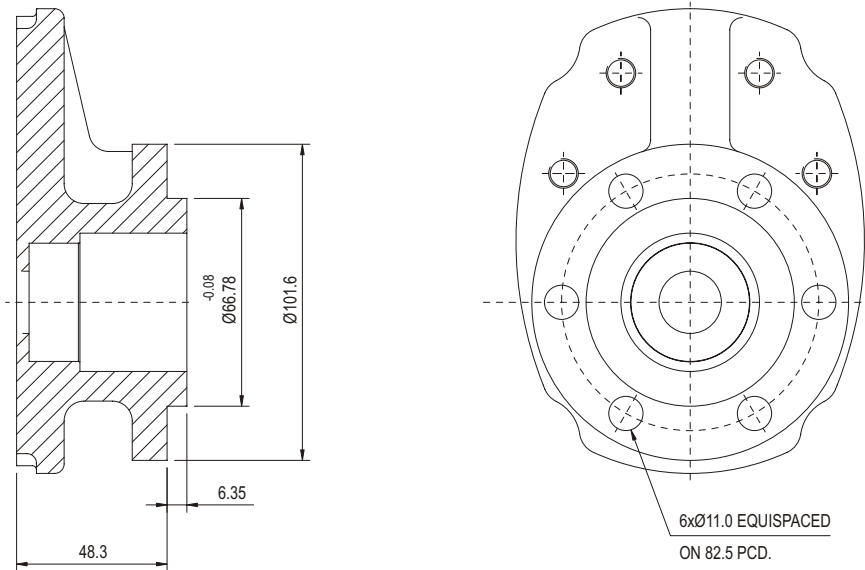
SERIES 2P

MOUNTING FLANGE

CODE - X



CODE - H



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

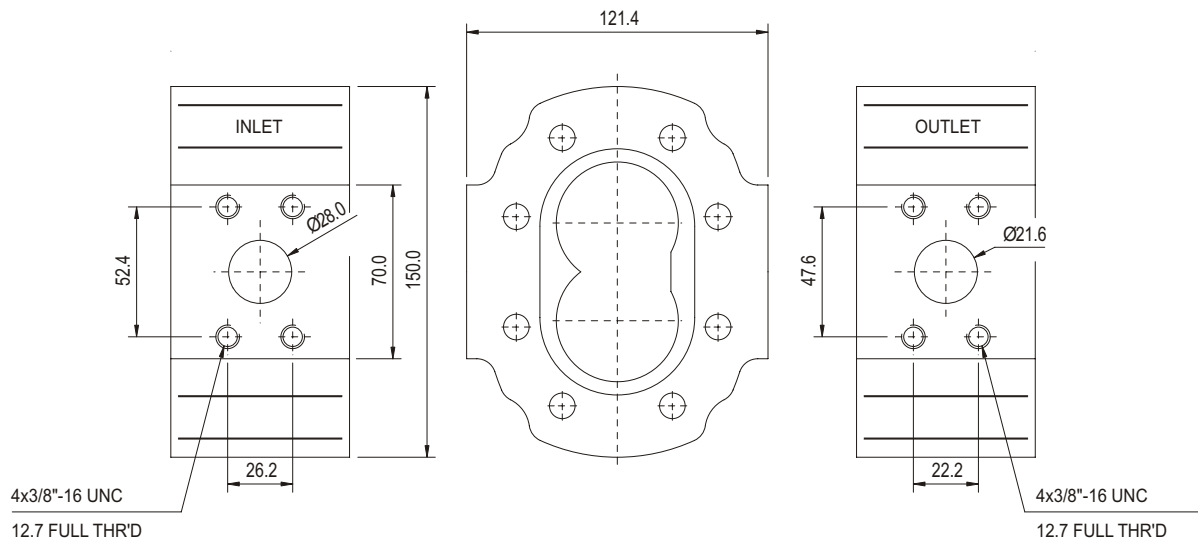
OILPOWER

HYDRAULIC GEAR PUMP

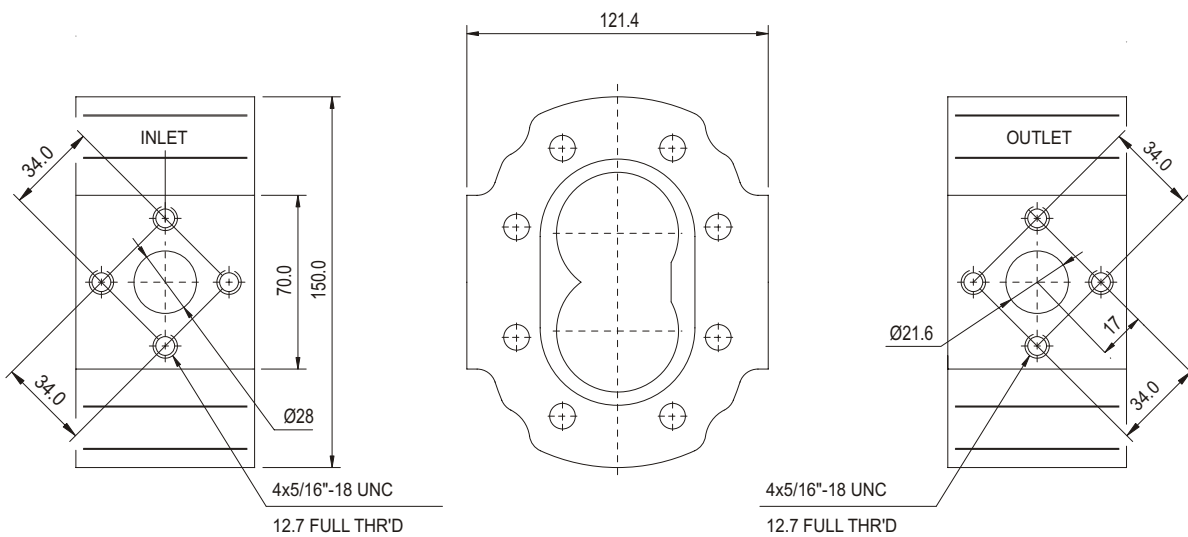
SERIES 2P

BODY PORTS

CODE - S



CODE - F



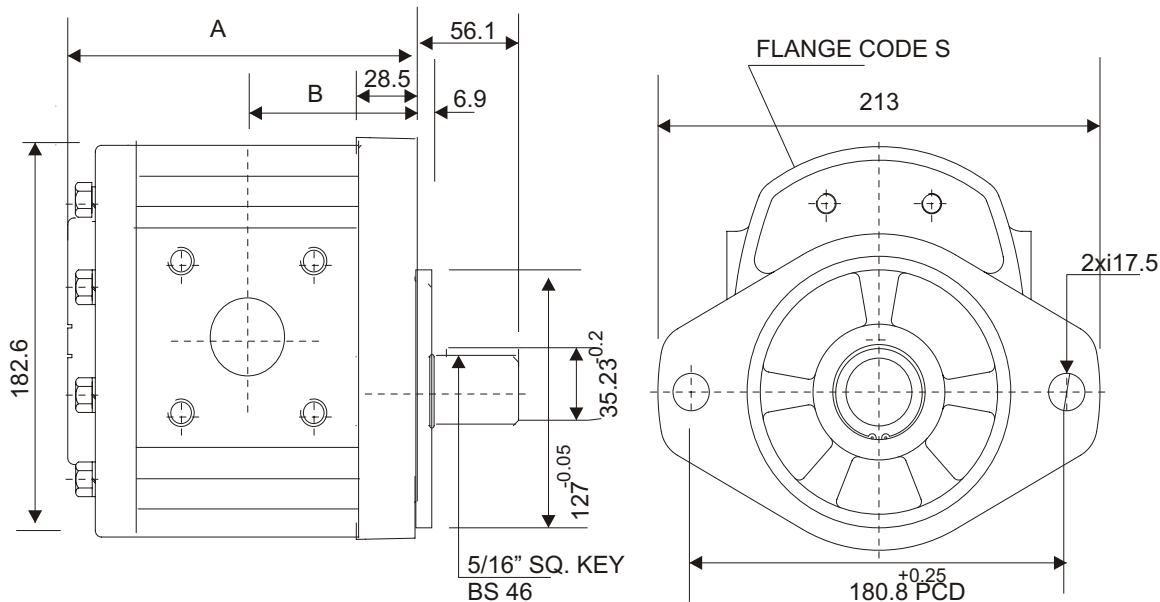
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

SERIES 3P

INSTALLATION DATA

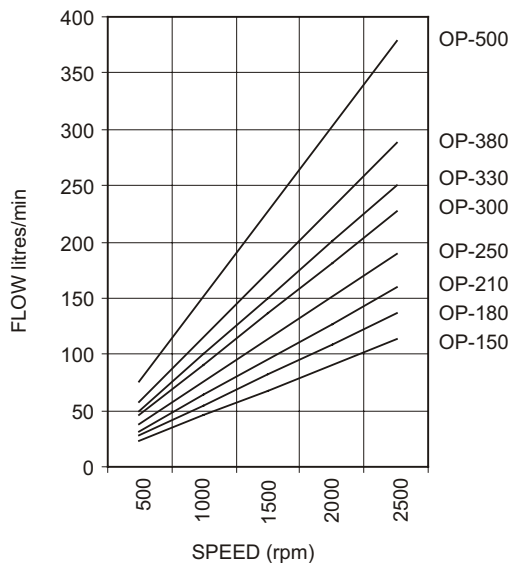


PUMP TYPE	DIMENSION A	DIMENSION B
OP-150	144.7	70.1
OP-180	149.5	72.5
OP-210	154.3	74.9
OP-250	160.7	78.1
OP-300	168.6	82.1
OP-330	173.8	84.7
OP-380	181.8	88.7
OP-500	202.3	98.9

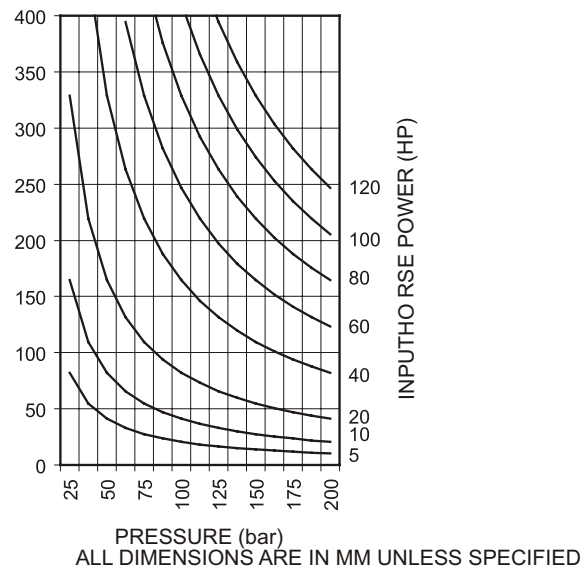
TYPICAL PERFORMANCE

TYPICAL PUMP DELIVERY

Flow at Max. Pressure.



TYPICAL INPUT HORSEPOWER

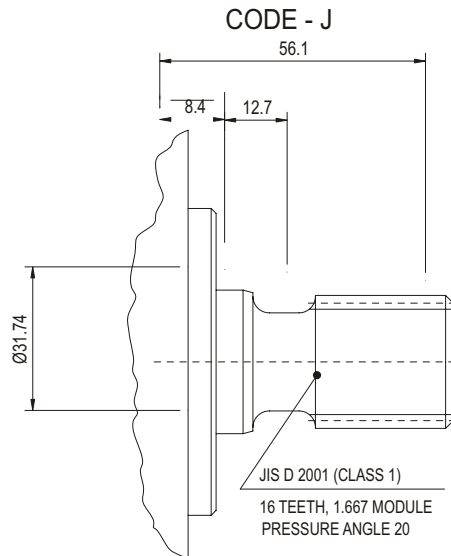
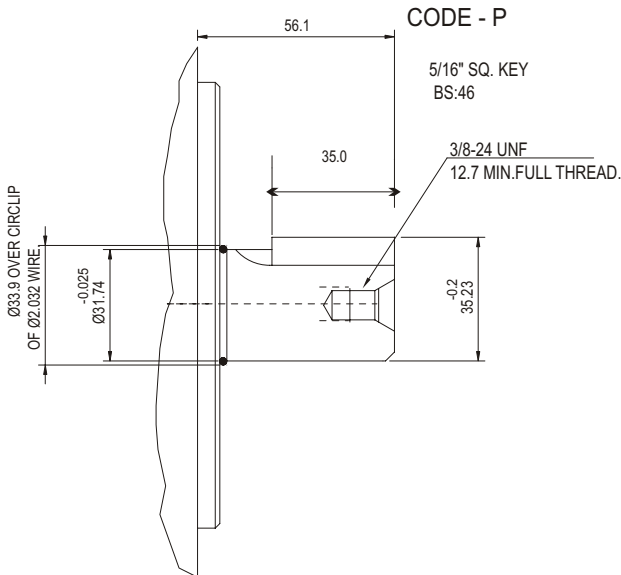
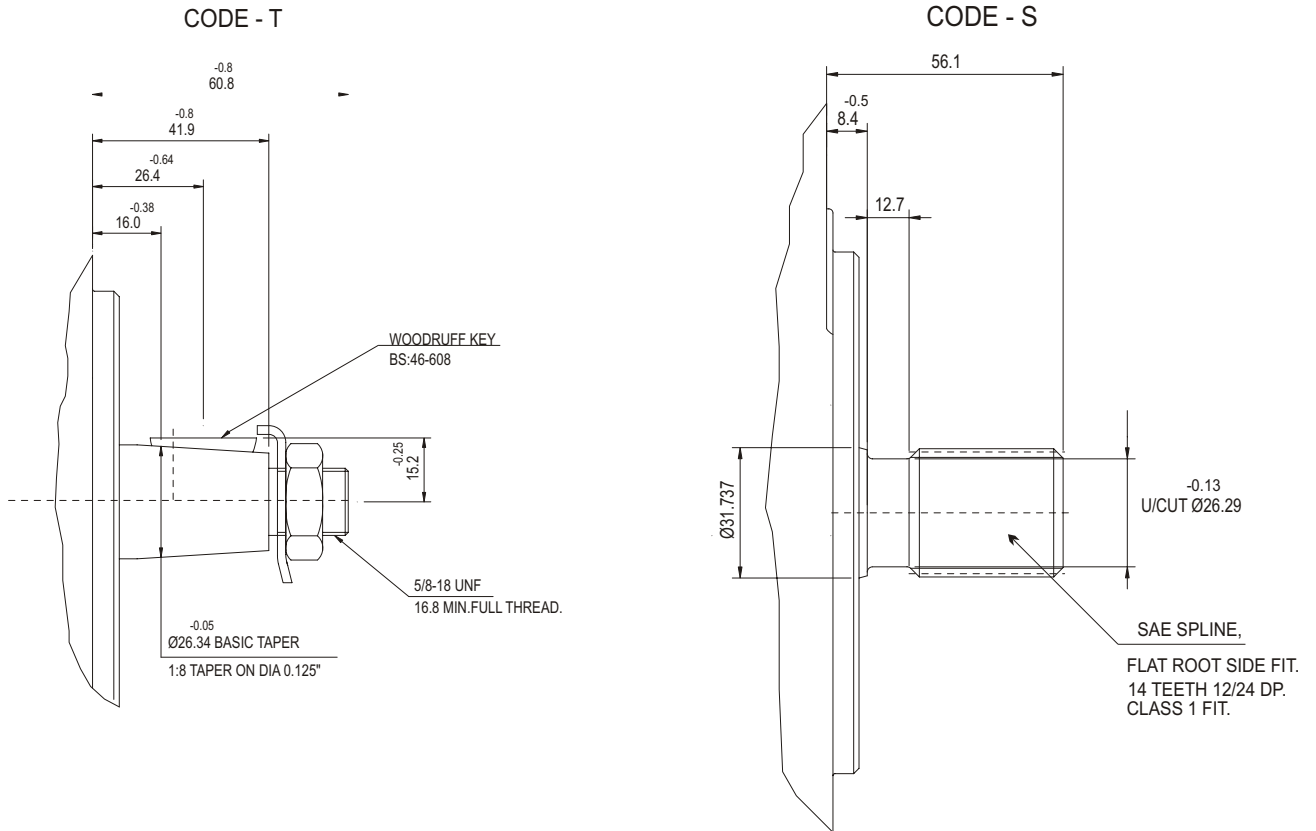


OILPOWER

HYDRAULIC GEAR PUMP

SERIES 3P

DRIVE SHAFT



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

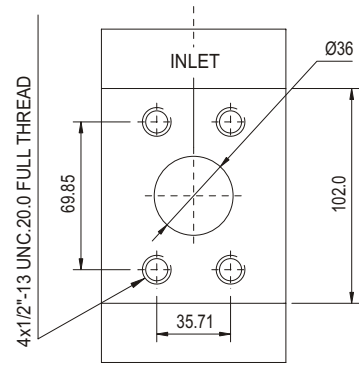
OILPOWER

HYDRAULIC GEAR PUMP

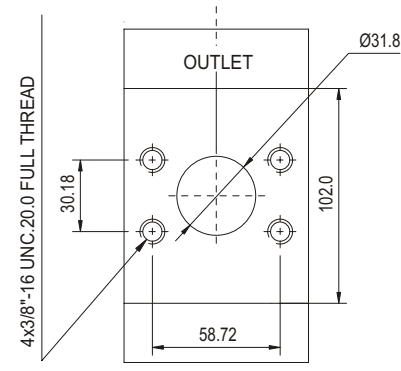
SERIES 3P

BODY PORTS

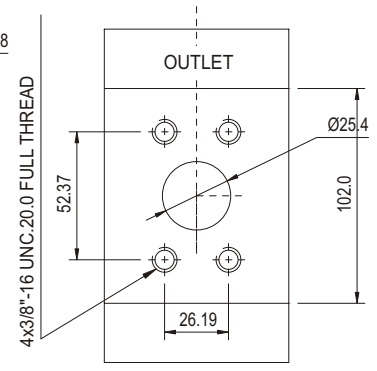
CODE - S



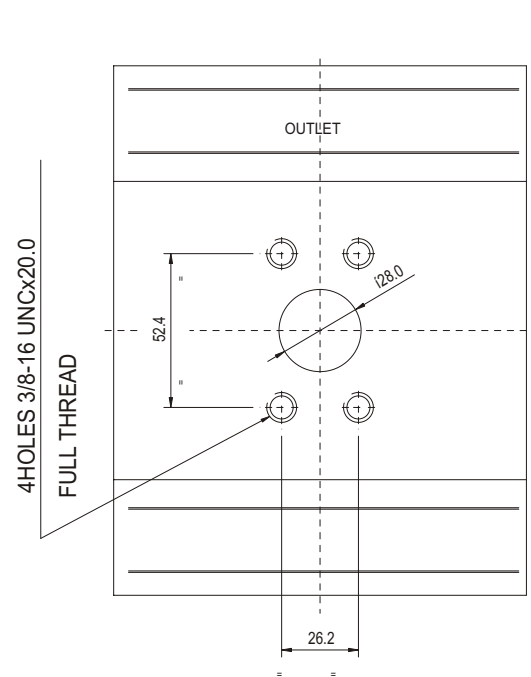
ALL TYPES



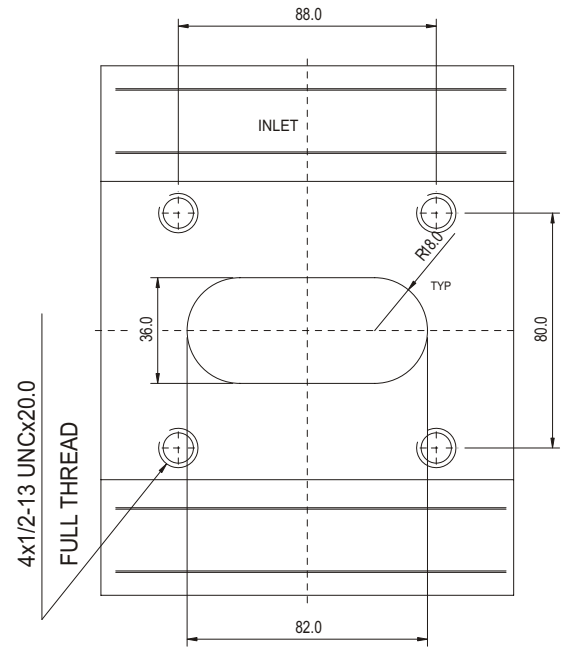
PUMP TYPES OP-330 & OP-380



PUMP TYPES OP-150 TO OP-300



PUMP TYPE OP-500
(ONLY ABOVE CONFIGURATION AVAILABLE)



WITH SUCTION ADAPTOR

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

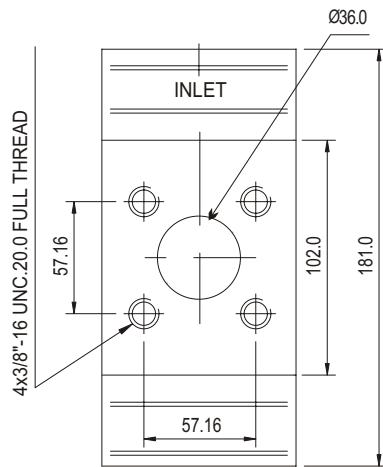
OILPOWER

HYDRAULIC GEAR PUMP

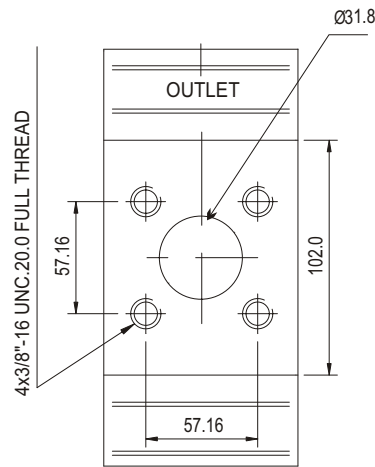
SERIES 3P

BODY PORTS

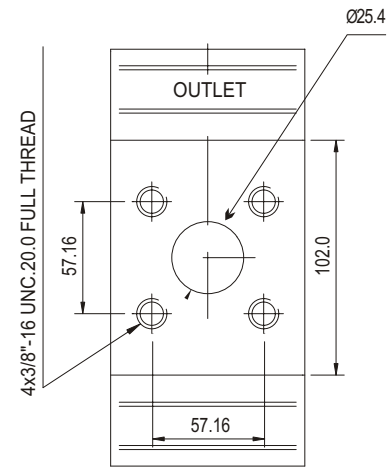
CODE - F



ALL TYPES



PUMP TYPES OP-150 TO OP-300



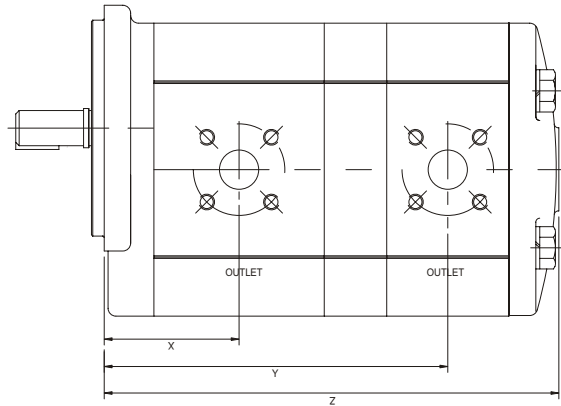
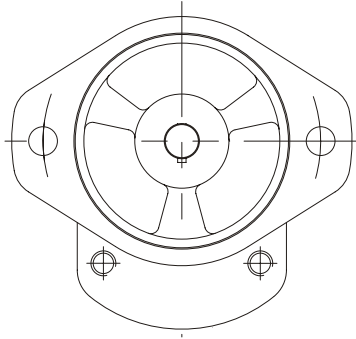
PUMP TYPES OP-330 & OP-380

OILPOWER

HYDRAULIC GEAR PUMP

TANDEM OP+OP

INSTALLATION DATA



PUMP TYPE OP - OP	DIMENSIONS		
	X	Y	Z
OP-15+OP-15	42.5	114.0	156.2
OP-13	"	113.3	154.8
OP-11	"	112.4	153.6
OP-08	"	111.6	151.4
OP-06	"	110.6	150.0
OP-04	"	110.3	148.9
OP-03	"	110.7	148.0
OP-13+OP-13	41.8	111.7	153.2
OP-11	"	111.0	152.0
OP-08	"	110.0	150.0
OP-06	"	109.2	148.3
OP-04	"	108.7	147.2
OP-03	"	108.2	146.4
OP-11+OP-11	41.0	109.6	150.5
OP-08	"	108.6	148.5
OP-06	"	107.9	147.0
OP-04	"	107.3	146.0
OP-03	"	106.9	145.0
OP-08+OP-08	40.0	106.6	146.5
OP-06	"	105.9	145.0
OP-04	"	105.3	144.0
OP-03	"	104.9	143.0
OP-06+OP-06	39.3	104.4	143.5
OP-04	"	103.8	142.4
OP-03	"	103.4	141.5
OP-04+OP-04	38.8	102.7	141.3
OP-03	"	102.3	140.5
OP-03+OP-04	38.5	101.4	139.6

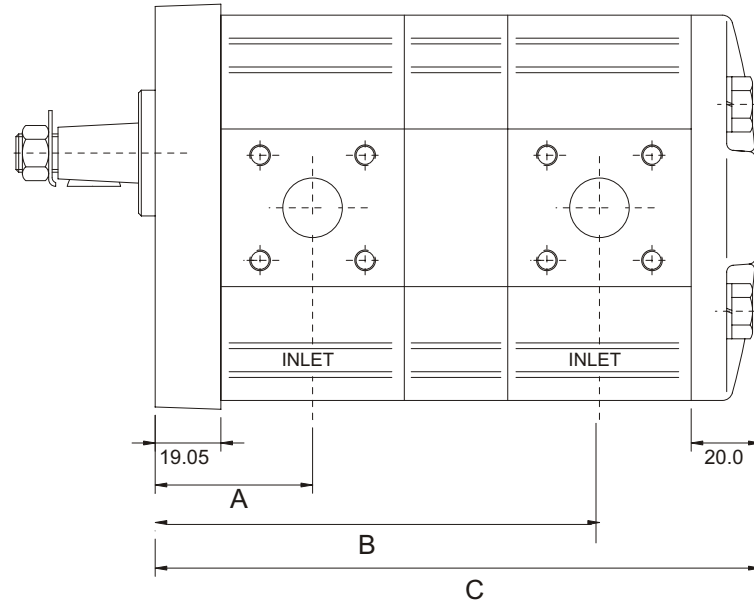
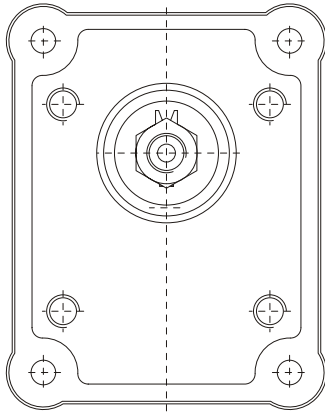
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

TANDEM 1P+1P

INSTALLATION DATA



PUMP TYPE.	DIM-A	DIM-B	DIM-C
OP-90+OP-90	63.1	182.1	246.4
OP-72	"	178.7	239.7
OP-60	"	176.4	235.1
OP-52	"	174.9	232.0
OP-44	"	173.4	229.0
OP-36	"	164.3	211.0
OP-28	"	162.8	207.9
OP-20	"	161.3	204.8
OP-17	"	160.5	203.2
OP-72+OP-72	59.6	172.1	233.0
OP-60	"	169.8	228.5
OP-52	"	168.2	225.4
OP-44	"	166.7	222.3
OP-36	"	157.7	204.3
OP-28	"	156.1	201.2
OP-20	"	154.6	198.1
OP-17	"	153.8	196.6
OP-60+OP-60	57.6	165.2	224.0
OP-52	"	163.6	221.0
OP-44	"	162.1	218.0
OP-36	"	153.1	200.0
OP-28	"	151.5	197.0
OP-20	"	150.0	193.5
OP-17	"	149.2	192.0

PUMP TYPE.	DIM-A	DIM-B	DIM-C
OP-52+OP-52	56.0	160.6	218.0
OP-44	"	159.0	215.0
OP-36	"	150.0	197.0
OP-28	"	148.5	193.5
OP-20	"	147.0	190.5
OP-17	"	146.2	189.0
OP-44+OP-44	55.3	156.0	211.6
OP-36	"	147.0	193.5
OP-28	"	145.4	190.5
OP-20	"	143.9	187.4
OP-17	"	143.1	185.8
OP-36+OP-36	45.6	128.9	175.5
OP-28	"	127.3	172.4
OP-20	"	125.8	169.3
OP-17	"	125.0	167.8
OP-28+OP-28	44.5	124.3	169.3
OP-20	"	122.7	166.3
OP-17	"	121.9	164.7
OP-20+OP-20	43.0	119.6	163.2
OP-17	"	118.2	161.6
OP-17+OP-17	42.5	117.3	160.0

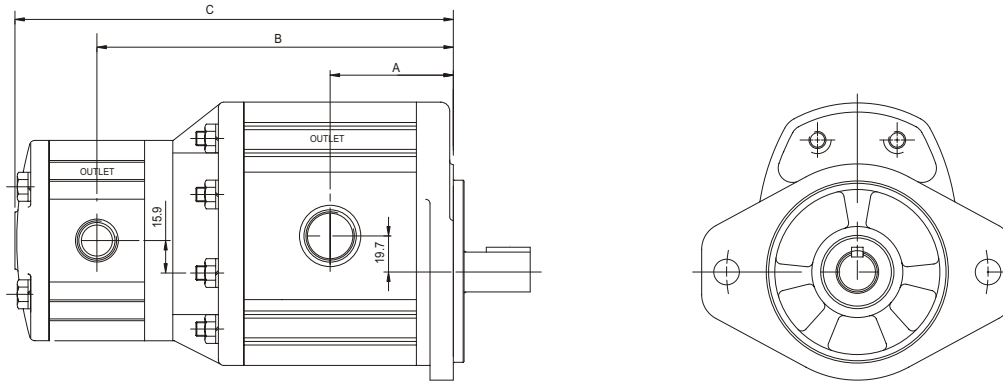
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

TANDEM 2P+1P

INSTALLATION DATA



PUMP TYPE 2P-1P	DIMENSIONS		
	A	B	C
OP-220+OP90	82.7	242.6	306.9
OP-72	"	239.3	300.3
OP-60	"	237.0	295.7
OP-52	"	235.5	292.7
OP-44	"	233.9	289.5
OP-36	"	224.9	271.5
OP-28	"	223.4	268.5
OP-20	"	221.8	265.3
OP-17	"	221.1	263.9
OP-158+OP-90	75.3	227.7	292.0
OP-72	"	224.4	285.4
OP-60	"	222.1	280.8
OP-52	"	220.6	277.8
OP-44	"	219.0	274.6
OP-36	"	210.0	256.6
OP-28	"	208.5	253.6
OP-20	"	206.9	250.4
OP-17	"	206.2	249.0
OP-146+OP-90	72.8	225.0	289.3
OP-72	"	221.7	282.7
OP-60	"	219.3	278.1
OP-52	"	217.9	274.1
OP-44	"	216.3	271.9
OP-36	"	207.3	253.9
OP-28	"	205.8	250.9
OP-20	"	204.2	247.7
OP-17	"	203.5	246.3
OP-120+OP-90	69.7	218.6	282.9
OP-72	"	215.3	276.3
OP-60	"	213.0	271.7
OP-52	"	211.5	268.7
OP-44	"	209.9	265.5
OP-36	"	200.9	247.5
OP-28	"	199.4	244.5
OP-20	"	197.8	241.3
OP-17	"	197.1	239.9

PUMP TYPE 2P-1P	DIMENSIONS		
	A	B	C
OP-105+OP-90	68.9	214.8	279.1
OP-72	"	211.5	272.5
OP-60	"	209.2	267.9
OP-52	"	207.7	264.9
OP-44	"	206.1	261.7
OP-36	"	197.1	243.7
OP-28	"	195.6	240.7
OP-20	"	194.0	237.5
OP-17	"	193.3	236.1
OP-90+OP-90	60.1	197.4	261.7
OP-72	"	194.1	255.1
OP-60	"	191.8	250.5
OP-52	"	190.3	247.6
OP-44	"	188.7	244.3
OP-36	"	179.7	226.3
OP-28	"	178.2	223.3
OP-20	"	176.6	220.1
OP-17	"	175.9	218.7
OP-70+OP-60	57.7	186.9	245.6
OP-52	"	185.5	242.7
OP-44	"	183.9	239.5
OP-36	"	174.9	221.5
OP-28	"	172.3	218.5
OP-20	"	171.8	215.3
OP-17	"	171.1	213.9
OP-50+OP-44	55.3	179.0	234.6
OP-36	"	170.0	216.6
OP-28	"	168.5	213.6
OP-20	"	166.9	210.4
OP-17	"	166.2	209.0

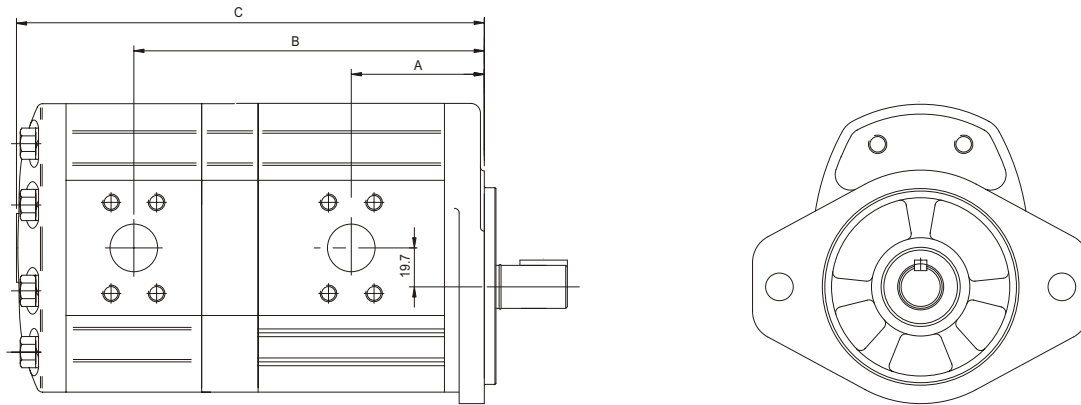
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

TANDEM 2P+2P

INSTALLATION DATA



PUMP TYPE 2P - 2P	DIMENSIONS		
	A	B	C
OP-158+OP-158	75.3	213.8	292.2
OP-146	*	212.2	289.0
OP-120	*	209.2	283.0
OP-105	*	207.3	279.3
OP-90	*	198.6	262.0
OP-70	*	196.1	257.0
OP-50	*	193.7	252.0
OP-146+OP-146	74.1	209.52	286.3
OP-120	*	206.4	280.3
OP-105	*	204.6	276.6
OP-90	*	195.8	259.0
OP-70	*	193.4	254.2
OP-50	*	191.0	249.4
OP-120+OP-120	70.7	202.0	275.8
OP-105	*	200.2	271.2
OP-90	*	188.4	254.6
OP-70	*	189.0	249.8
OP-50	*	186.6	244.9
OP-10+OP-105	67.9	192.55	264.5
OP-90	*	183.7	247.0
-OP-70	*	181.3	242.1
OP-50	*	178.9	237.3
OP-90+OP-90	59.1	168.2	238.4
OP-70	*	165.8	226.6
OP-50	*	163.4	221.8
OP-70+OP-70	56.7	161.0	211.8
OP-50	*	151.5	217.0
OP-50+OP-50	54.3	153.7	212.1

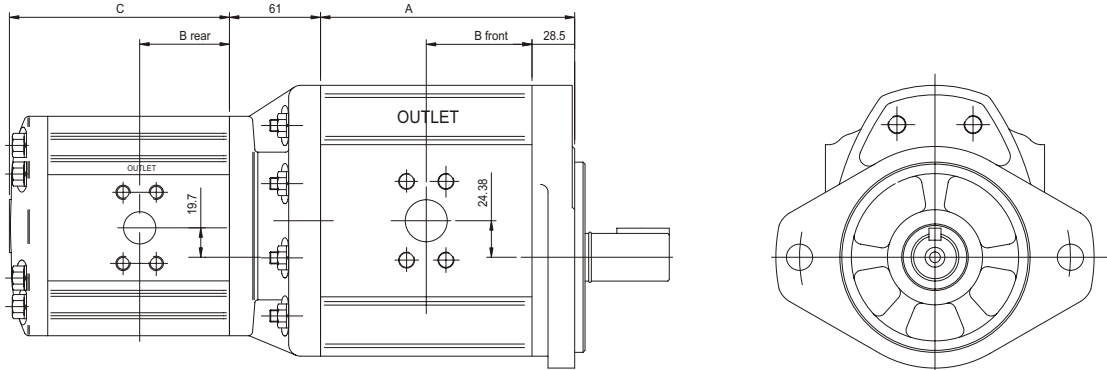
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

TANDEM 3P+2P

INSTALLATION DATA



PUMP TYPE	DIMENSIONS			
	C	B-FRONT	B-REAR	A
3P+2P				
OP-500+OP-220	67.9	213.8	60.2	146.0
OP-158	"	52.7	54.4	131.0
OP-146	"	51.3	51.3	128.0
OP-120	"	48.3	48.3	122.3
OP-105	"	46.5	46.5	118.6
OP-90	"	37.6	37.6	101.0
OP-70	"	35.0	35.0	96.2
OP-50	"	32.8	32.8	91.5
OP-380+OP-220	148.8	60.2	60.2	146.0
OP-158	"	54.4	54.4	131.0
OP-146	"	51.3	51.3	128.0
OP-120	"	48.3	48.3	122.3
OP-105	"	"	46.5	118.6
OP-90	"	"	37.6	101.0
OP-70	"	"	35.0	96.2
OP-50	"	"	32.8	91.5
OP-330+OP-220	140.8	56.14	60.2	146.0
OP-158	"	"	54.4	131.0
OP-146	"	"	51.3	128.0
OP-120	"	"	48.3	122.3
OP-105	"	"	46.5	118.6
OP-90	"	"	37.6	101.0
OP-70	"	"	35.0	96.2
OP-50	"	"	32.8	91.5
OP-300+OP-220	135.6	53.6	60.2	146.0
OP-158	"	"	54.4	131.0
OP-146	"	"	51.3	128.0
OP-120	"	"	48.3	122.3
OP-105	"	"	46.5	118.6
OP-90	"	"	37.6	101.0
OP-70	"	"	35.0	96.2
OP-50	"	"	32.8	91.5

PUMP TYPE	DIMENSIONS			
	C	B-FRONT	B-REAR	A
3P-2P				
OP-250+OP-220	127.7	49.6	60.2	146.0
OP-158	"	"	54.4	131.0
OP-146	"	"	51.3	128.0
OP-120	"	"	48.3	122.3
OP-105	"	"	46.5	118.6
OP-90	"	"	37.6	101.0
OP-70	"	"	35.0	96.2
OP-50	"	"	32.8	91.5
OP-210+OP-158	121.34	46.4	54.4	131.0
OP-146	"	"	51.3	128.0
OP-120	"	"	48.3	122.3
OP-105	"	"	46.5	118.6
OP-90	"	"	37.6	101.0
OP-70	"	"	35.0	96.2
OP-50	"	"	32.8	91.5
OP-180+OP-158	116.5	44.0	54.4	131.0
OP-146	"	"	51.3	128.0
OP-120	"	"	48.3	122.3
OP-105	"	"	46.5	118.6
OP-90	"	"	37.6	101.0
OP-70	"	"	35.0	96.2
OP-50	"	"	32.8	91.5
OP-150+OP-146	111.6	41.6	51.3	128.0
OP-120	"	"	48.3	122.3
OP-105	"	"	46.5	118.6
OP-90	"	"	37.6	101.0
OP-70	"	"	35.0	96.2
OP-50	"	"	32.8	91.5

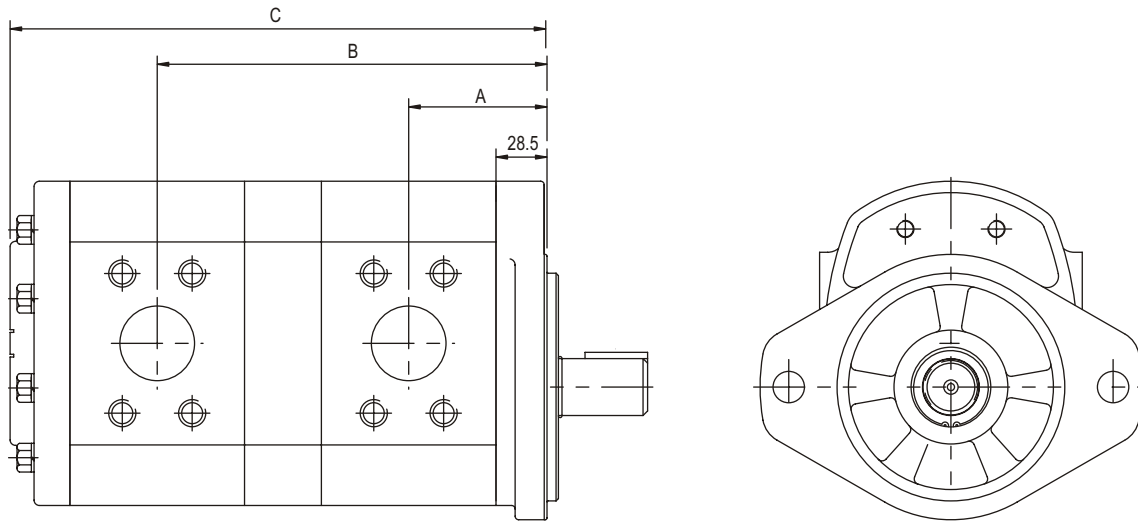
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

TANDEM 3P+3P

INSTALLATION DATA



PUMP TYPE.	DIM-A	DIM-B	DIM-C
OP-500+OP-500	98.9	280.4	384.3
OP-380	"	270.2	363.8
OP-330	"	266.1	355.8
OP-300	"	263.6	350.6
OP-250	"	259.6	342.7
OP-210	"	256.4	336.3
OP-180	"	254.0	331.5
OP-150	"	251.6	326.6
OP-380+OP-380	88.7	249.6	343.3
OP-330	"	245.6	335.3
OP-300	"	243.0	330.1
OP-250	"	239.1	322.2
OP-210	"	235.9	315.8
OP-180	"	233.5	311.0
OP-150	"	231.1	306.1
OP-330+OP-330	84.7	237.6	327.2
OP-300	"	235.0	322.0
OP-250	"	231.1	314.1
OP-210	"	227.9	307.8
OP-180	"	225.5	302.9
OP-150	"	223.1	298.1

PUMP TYPE.	DIM-A	DIM-B	DIM-C
OP-300+OP-300	82.1	229.9	316.9
OP-250	"	225.9	309.0
OP-210	"	222.7	302.6
OP-180	"	220.3	297.8
OP-150	"	217.9	292.9
OP-250+OP-250	78.1	218.0	301.1
OP-210	"	214.8	294.7
OP-180	"	212.4	289.9
OP-150	"	210.0	285.0
OP-210+OP-210	74.9	208.5	288.4
OP-180	"	206.0	283.6
OP-150	"	203.6	278.6
OP-180+OP-180	72.5	201.2	278.7
OP-150	"	198.8	273.8
OP-150+OP-150	70.1	193.9	269.0

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

OILPOWER

HYDRAULIC GEAR PUMP

POSSIBLE MULTIPLE GROUP COMBINATION

OP+OP

OP+OP+OP

OP+OP+OP+OP

1P+1P

1P+1P+1P

1P+1P+1P+1P

2P+0P

2P+1P

2P+2P

2P+1P+1P

2P+2P+1P

2P+2P+2P

3P+1P

3P+2P

3P+3P

3P+2P+2P

3P+3P+2P

3P+3P+3P