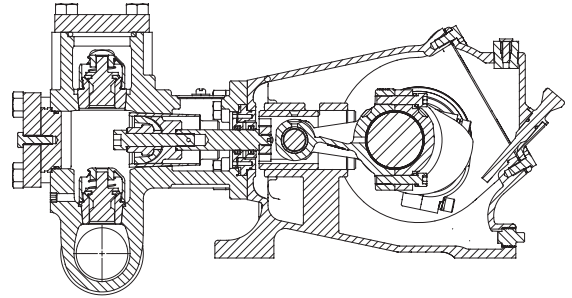


TRIPLEX PUMP

APLEX SERIES SC-35



INTERMITTENT DUTY ONLY

NO. OF PISTONS	3
MAXIMUM RATED SPEED	625 rpm
STROKE LENGTH	2.00 in. (50.8 mm)
MAXIMUM RATED POWER	50 HP (37 kW)
MAXIMUM ROD LOAD	4800 lb. (21.3 kN)
WEIGHT	250 lbs.

SC-35 ENGLISH UNITS

PISTON SIZE IN.	MAX. PRESS. PSI	*GALLON PER/ REV.	200 RPM US GPM	325 RPM US GPM	425 RPM US GPM	525 RPM US GPM	625 RPM US GPM
2.000	1528	0.0816	16.3	26.5	34.7	42.8	51.0
1.750	1996	0.0625	12.5	20.3	26.6	32.8	39.1
1.500	2716	0.0459	9.2	14.9	19.5	24.1	28.7
hp REQUIRED @ RPM			16.2	26.3	34.4	42.5	50.5

SC-35 METRIC UNITS

PISTON SIZE MM	MAX. PRESS. BAR	*LITER PER/ REV.	200 RPM LPM	325 RPM LPM	425 RPM LPM	525 RPM LPM	625 RPM LPM
50.8	105.4	0.3089	61.8	100.4	131.3	162.2	193.1
44.5	137.6	0.2366	47.3	76.9	100.6	124.2	147.9
38.1	187.3	0.1738	34.8	56.5	73.8	91.2	108.6
kW REQUIRED @ RPM			12.1	19.6	25.6	31.7	37.7

*Displacement based on 100% Volumetric Efficiency

**Power based on 90% Mechanical Efficiency

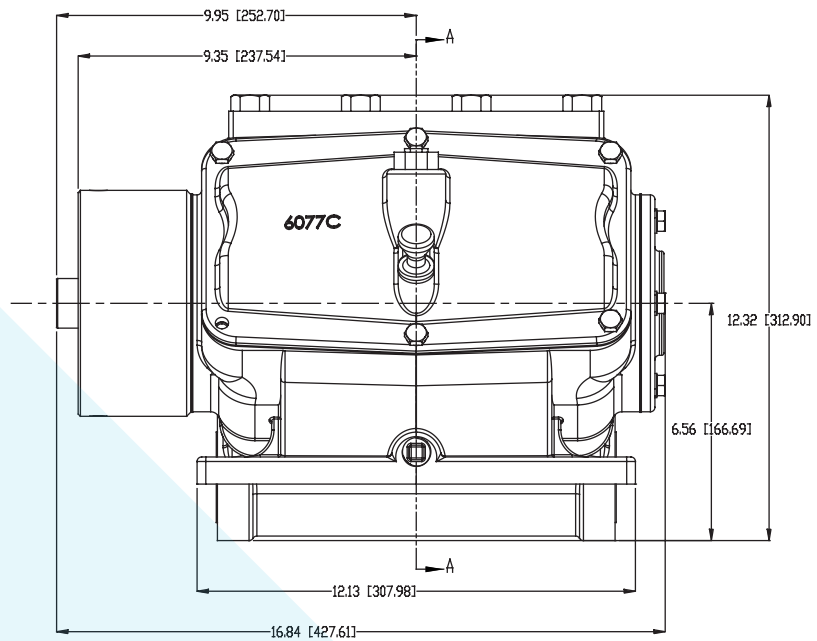
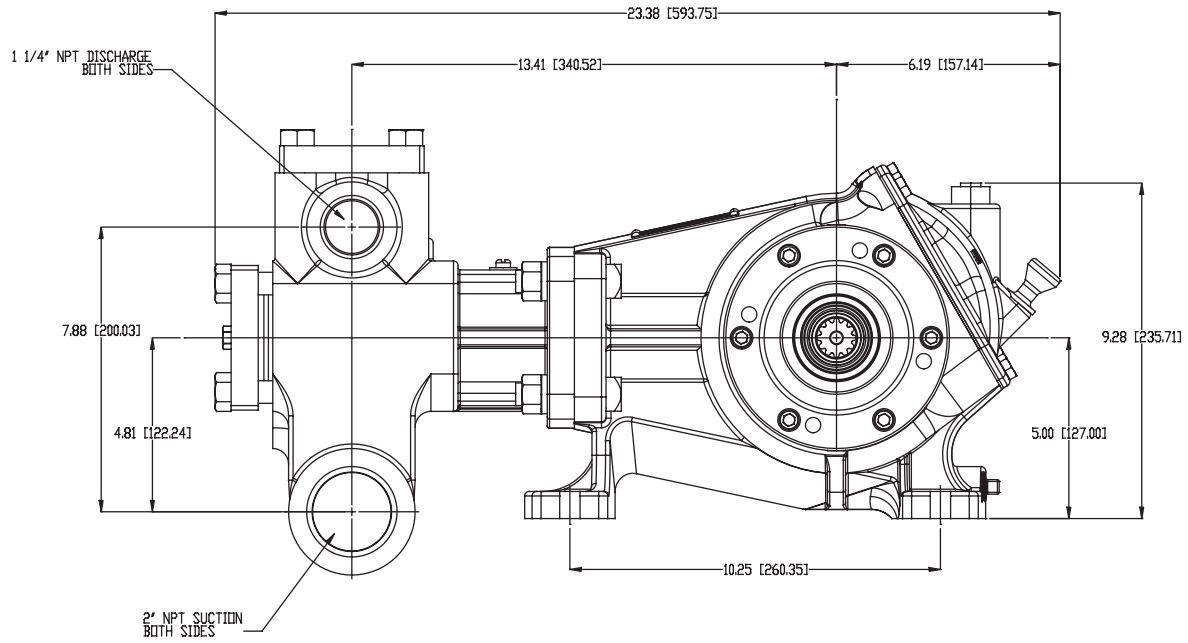
$$IHP = \frac{USGPM \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

$$IKW = \frac{M^3/HR \times (\text{Discharge Bar} - 1/2 \text{ Suction Bar})}{32.4}$$

$$PUMP \text{ RPM} = \frac{USGPM \text{ Desired}}{USG \text{ per Revolution of Selected Plunger}}$$

$$PUMP \text{ RPM} = \frac{M^3/HR \text{ Desired}}{M^3 \text{ per Revolution of Selected Plunger}}$$

DIMENSIONAL DATA



ENGINEERING DATAPOWER END ENGINEERING DATA

Max. Input Power @ Speed	50 HP @ 625 rpm
Rated Rod Load	4,800 lb.
Minimum Speed	100 rpm
Oil Capacity	2 U.S. qrts
Power End Oiling System	Splash
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Ductile Iron
Crosshead, Dia. x Length	2 1/2 x 2 1/2 in.
Crankshaft	Alloy Steel
Crankshaft Diameters:	
At Tapered Roller Bearings	1.752 in.
At Crankpin Bearings, Dia. x Length.....	2.373 x 1.945 in.
Crosshead (Wrist) Pin, Case-Hardened and Ground	AISI 1018
Main Bearings	Tapered Roller
Crankpin Bearings, Precision Automotive	Babbitt-Lined
Piston Rod Integral w/ Crosshead	303 S.ST.
Connecting Rod, Automotive Type	Ductile Iron
Average Crosshead Speed @ 600 rpm	200 fpm
Minimum Life Expectancy, Main Bearings, L ₁₀	10,000+ hr.

LIQUID END ENGINEERING DATA

Max. Working Pressure	2,700 psi
Liquid End Materials, A.S.T.M.	
Ductile Iron	A536 80-55-06
Piston Type	HNBR & Synthetic Fabric
Cylinder Liner, Field-Removable and Replaceable.....	Ceramic Coated 416 S.ST.
Valve Cover and Cyl. Head Plugs	Carbon Steel
Retainer Plates.....	Carbon Steel
Seals, Stuffing Boxes, Valve Covers	Nitrile
Valve Type, Abrasion Resistant	I7-4PH S.ST.
Valve Spring Material	316 S.ST.
Valve Seat, Liquid Passage Area685 sq.in.
Avg. Liquid Velocity, with 2" Pistons @ 600 rpm	
thru Valves	15.3 fps
thru Suction Manifold	4.0 fps
thru Discharge Manifold.....	8.8 fps

All drawings and specifications subject to change without notice.



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