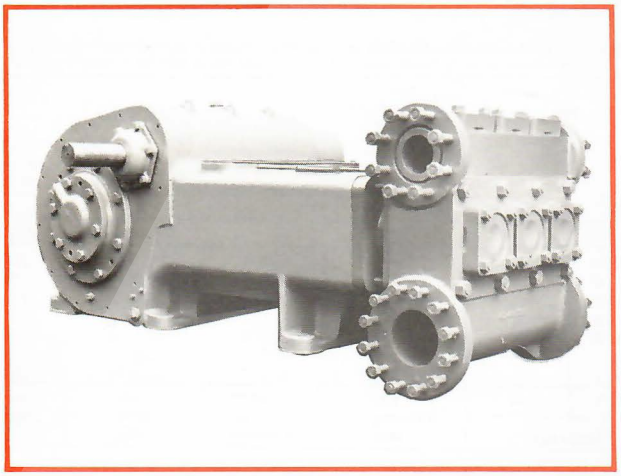
356P-D Triplex



Specifications

	English		Metric	
Pump Size (Max. Plunger Dia. x Stroke)	inches	5 x 6	mm	127 x 152
Standard Plunger Sizes	inches	3½, 3¾, 4, 4¼, 4½ and 5	mm	89, 95, 102, 108, 114, and 127
Rated bhp at 320 rpm	hp	160	kW	119
Maximum Working Pressure:				
Discharge	psi	1040	kPa	7171
Suction	psi	300	kPa	2068
Two Flanged Suction Connections: Pipe Size	inches	6	mm	152
ANSI Rating	class	300	class	300
ANSI Facing		Flat Face		Flat Face
Two Flanged Discharge Connections: Pipe Size	inches	4	mm	102
ANSI Rating	class	600	class	600
ANSI Facing		R.T.J.		R.T.J.
Gear Unit Reduction Ratio: (Standard)		4.44:1		4.44:1
(Optional)		1.588:1		1.588:1
		1.776:1		1.776:1
		2.487:1		2.487:1
		3.121:1		3.121:1
		5.476:1		5.476:1
		7.130:1		7.130:1
Pinion Shaft Extension:				
Diameter	inches	2.995	mm	76
Length	inches	7¼	mm	184
Keyway (Width x Depth)	inches	¾ x ¼	mm	19 x 6
Rated Plunger Load	pounds	10000	N	44482
Oil Capacity (Crankcase + Gearcase)	gallons	13	litres	49
Weight (On Wood Shipping Skids) (Est.)	pounds	4925	kg	2234

Plunger Diameter		Stuffing Box Bore	
Inches	mm	Inches	mm
3½	89	4⅞	124
3¾ - 4½	95 - 114	5¼	133
5	127	6	152

Performance Data

(Volumes Indicated are Displacement of Noncompressible Fluid)

ENGLISH UNITS

Plgr. Dia. In.	Plgr. Area (Sq. In.)	Displacement Gal. Per Rev.	Max. Pressure psi	100 rpm		150 rpm		200 rpm		250 rpm		*300 rpm		320 rpm	
				bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm
3½	9.621	.7497	1040	2571	74.97	3857	112.46	5143	149.94	6429	187.42	7714	224.91	8229	239.90
3¾	11.045	.8606	905	2952	86.06	4428	129.09	5904	172.12	7380	215.16	8856	258.19	9446	275.40
4	12.566	.9792	795	3359	97.92	5038	146.88	6717	195.84	8397	244.80	10076	293.76	10748	313.34
4¼	14.186	1.1054	705	3792	110.54	5687	165.81	7583	221.08	9479	276.36	11375	331.63	12133	353.74
4½	15.904	1.2393	625	4251	123.93	6376	185.89	8502	247.86	10627	309.82	12752	371.79	13603	396.58
5	19.635	1.5300	505	5248	153.00	7872	229.50	10496	306.00	13120	382.50	15744	459.00	16793	489.60
Brake Horsepower Required				50		75		100		125		150		160	

METRIC UNITS

Plgr. Dia. mm	Plgr. Area cm²	Displacement L/rev.	Max. Pressure kPa	100 r/min.		150 r/min.		200 r/min.		250 r/min.		*300 r/min.		320 r/min.	
				m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s
89	62.0717	2.8379	7171	409	4.73	613	7.09	817	9.46	1022	11.82	1226	14.19	1308	15.14
95	71.2557	3.2578	6240	469	5.43	704	8.14	938	10.86	1173	13.57	1407	16.29	1501	17.37
102	81.0732	3.7067	5481	534	6.18	801	9.27	1068	12.36	1334	15.44	1601	18.53	1708	19.77
108	91.5240	4.1845	4861	603	6.97	904	10.46	1205	13.95	1506	17.44	1808	20.92	1928	22.32
114	102.6083	4.6912	4309	676	7.82	1013	11.73	1351	15.64	1689	19.55	2027	23.46	2162	25.02
127	126.6769	5.7917	3482	834	9.65	1251	14.48	1668	19.31	2085	24.13	2502	28.96	2669	30.89
Kilowatt Required				38		56		75		94		113		119	

ENGLISH AND METRIC

Gear Unit Pinion Shaft r/min. at Gear Ratios of:	1.588:1	159	238	318	397	476	508
	1.776:1	178	266	355	444	533	568
	2.487:1	249	374	497	622	746	796
	3.121:1	312	468	624	780	936	999
	(Std.) 4.440:1	444	666	888	1110	1332	1421
	5.476:1	548	821	1095	1369	1643	1752
	7.130:1	713	1070	1426	1783	2139	2282

*Pump speeds in excess of 250 r/min. require specific approval of the manufacturer. Viscosity, temperature, velocities and other fluid properties or characteristics combined with the inherent mechanical efficiencies of pumps may result in less than optimum operations. We have applied this conservatism to assure you total performance.