

Triplex Pump Applications

		FORMING					TESTING					POWER			OTHER									
		COMPRESSION MOLDING	EXTRUDING	DIE CASTING	HYDROSTATIC COMPACTION	HYDROSTATIC FORMING	COLD DRAWING	PRESSURE TESTING	FATIGUE TESTING	STRESS ANALYSIS	BURST TESTING	COMPONENT TESTING	HIGH TEMPERATURE	COIL HANDLING	ROLL BALANCING	PRESSURE STORAGE	CENTRAL HYDRAULIC SYSTEMS	HYDROSTATIC LUBRICATION	JET CLEANING	CRYOGENIC PUMPING	PROCESSES	HIGH TEMPERATURE	JET CUTTING	
FLUIDS	HYDROCARBON FLUIDS				●			●	●						●		●	●			●	●	●	
	HYDRAULIC OIL	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●
	SYNTHETIC OIL	●						●	●	●	●	●	●		●								●	●
	NON-FLAMMABLE OIL		●	●						●		●		●									●	●
	WATER AND OIL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●	●
	WATER	●	●		●	●		●		●	●		●	●		●	●		●				●	●
	LIQUID GASES												●							●	●			
	FREON											●										●	●	
	OTHER																					●	●	
PRESSURES	1,500 PSI	●	●							●		●	●	●	●	●	●		●		●	●		
	3,000 PSI	●	●	●			●		●			●	●	●	●	●	●	●	●	●	●	●		
	5,000 PSI	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●		
	10,000 PSI		●	●	●	●	●	●	●	●	●	●	●			●		●	●	●		●	●	
	20,000 PSI				●	●	●	●	●	●	●							●					●	
	30,000 PSI				●	●		●	●		●													●
INDUSTRIES	RUBBER	●	●				●	●		●						●	●						●	
	PLASTIC	●	●			●	●	●	●	●						●	●		●			●	●	
	STEEL					●	●	●	●	●				●	●	●	●	●	●					
	ALUMINUM	●	●											●	●			●						
	BRASS AND BRONZE	●	●											●										
	METAL FORMING				●	●	●		●	●	●					●	●	●						
	LUMBER	●														●	●		●					
	HYDRAULIC MFR						●		●		●	●					●					●		
	AIRCRAFT						●	●	●	●	●	●	●									●	●	
	MISSILE & SPACE VEHICLE						●	●	●	●	●	●	●			●			●	●		●	●	
	CHEMICAL																		●	●	●	●	●	
	PAPER	●																	●	●	●	●	●	
	PETROLEUM REFINING																		●		●	●	●	
	CERAMICS	●			●																			
	SINTERED CARBIDES				●																			
MINING																							●	

OHI triplex pumps... serving industry worldwide

20 HP for pressures up to 30,000 psi

PLUNGER DIAMETER INCHES	DISPLACEMENT GPM per 100 RPM	INTEGRAL GEAR RATIO, 60 HZ, 1800 RPM INPUT			
		5.204		3.986	
		DISPLACEMENT @ 346 RPM	MAXIMUM PRESSURE	DISPLACEMENT @ 450 RPM	MAXIMUM PRESSURE
STANDARD PUMP (5,000 PSI)					
5/8"	1.20	4.14	5,000	5.34	5,000
11/16"	1.45	5.00	5,000	6.51	5,000
3/4"	1.72	5.96	4,330	7.74	4,330
13/16"	2.02	6.98	3,690	9.09	3,690
7/8"	2.34	8.10	3,180	10.50	3,180
15/16"	2.69	9.30	2,770	12.10	2,770
1"	3.06	10.58	2,430	13.80	2,430
1-1/8"	3.87	13.40	1,920	17.40	1,920
1-1/4"	4.78	16.54	1,560	21.50	1,560
HIGH PRESSURE PUMP (20,000 PSI)					
5/16"	0.30	1.03	20,000	1.34	20,000
3/8"	0.43	1.48	17,320	1.94	17,320
7/16"	0.59	2.02	12,720	2.64	12,720
1/2"	0.76	2.64	9,740	3.44	9,740
9/16"	0.97	3.36	7,690	4.36	7,690
5/8"	1.20	4.14	6,230	5.38	6,230
VERY HIGH PRESSURE PUMP (30,000 PSI)					
9/32"	0.24	0.84	30,000	1.09	30,000
5/16"	0.30	1.03	24,900	1.34	24,900
3/8"	0.43	1.48	17,320	1.94	17,320
7/16"	0.59	2.02	12,720	2.64	12,720

Displacements are based on 100% volumetric efficiency
Stroke 3 inches

100 HP for pressures up to 30,000 psi

PLUNGER DIAMETER INCHES	DISPLACEMENT GPM per 100 RPM	INTEGRAL GEAR RATIO, 60 HZ, 1800 RPM INPUT							
		8.815		5.941		4.864		4.330	
		DISPLACEMENT @ 205 RPM	MAXIMUM PRESSURE	DISPLACEMENT @ 303 RPM	MAXIMUM PRESSURE	DISPLACEMENT @ 370 RPM	MAXIMUM PRESSURE	DISPLACEMENT @ 416 RPM	MAXIMUM PRESSURE
STANDARD PUMP (5,000 PSI)									
3/4"	2.30	4.71	5,000	6.96	5,000	8.50	5,000	9.58	5,000
7/8"	3.12	6.40	5,000	9.46	5,000	11.50	5,000	13.00	5,000
1"	4.08	8.36	5,000	12.40	5,000	15.10	5,000	17.00	5,000
1-1/8"	5.16	10.60	5,000	15.60	5,000	19.10	5,000	21.40	5,000
1-1/4"	6.38	13.10	5,000	19.30	5,000	23.60	5,000	26.60	5,000
1-3/8"	7.72	15.80	5,000	23.40	5,000	28.60	5,000	32.20	4,700
1-1/2"	9.18	18.80	4,200	27.80	4,200	34.00	4,200	38.20	3,900
1-5/8"	10.80	22.10	3,600	32.60	3,600	39.90	3,600	44.90	3,300
1-3/4"	12.50	25.60	3,100	37.80	3,100	46.20	3,100	52.00	2,800
HIGH VOLUME PUMP (2,000 PSI)									
1-7/8"	14.30	29.40	2,000	43.50	2,000	53.10	2,000	59.70	2,000
2"	16.30	33.50	2,000	49.50	2,000	60.40	2,000	67.90	2,000
2-1/8"	18.40	37.80	2,000	55.80	2,000	68.20	2,000	76.70	1,900
2-1/4"	20.70	42.30	1,850	62.60	1,850	76.40	1,850	85.90	1,700
2-3/8"	23.00	47.10	1,650	69.80	1,650	85.20	1,650	95.60	1,500
2-1/2"	25.60	52.10	1,480	77.40	1,480	94.40	1,480	106.00	1,350
HIGH PRESSURE PUMP (10,000 PSI)									
5/8"	1.60	3.27	10,000	4.83	10,000	5.89	10,000	6.62	10,000
3/4"	2.30	4.71	10,000	6.96	10,000	8.50	10,000	9.58	10,000
7/8"	3.12	6.40	10,000	9.46	10,000	11.50	10,000	13.00	10,000
1"	4.08	8.36	9,700	12.40	9,700	15.10	9,300	17.00	8,900
VERY HIGH PRESSURE PUMP (30,000 PSI)									
31/64"	0.96	1.96	30,000	2.90	30,000	3.54	30,000	3.98	30,000
9/16"	1.29	2.65	30,000	3.90	30,000	4.78	28,500	5.37	27,000
5/8"	1.60	3.27	24,200	4.83	23,500	5.90	23,000	6.63	22,200
CRYOGENIC									
		205 RPM		303 RPM					
		DISPLACEMENT	PRESSURE	DISPLACEMENT	PRESSURE	DISPLACEMENT	PRESSURE	DISPLACEMENT	PRESSURE
		LIQUID NITROGEN	10.60 6,000	15.60 6,000					
		LIQUID NITROGEN	8.36 10,000	12.40 10,000					
		LIQUID HYDROGEN	8.36 10,000	12.40 10,000					

Displacements are based on 100% volumetric efficiency
Stroke ? inches

200 HP for pressures up to 30,000 psi

PLUNGER DIAMETER INCHES	DISPLACEMENT GPM per 100 RPM	INTEGRAL GEAR RATIO, 60 HZ, 1800 RPM INPUT			
		4.850		3.958	
		DISPLACEMENT @ 371 RPM	MAXIMUM PRESSURE	DISPLACEMENT @ 455 RPM	MAXIMUM PRESSURE
STANDARD PUMP (5,000 PSI)					
1-1/2"	11.50	42.60	5,000	52.30	5,000
1-5/8"	13.50	50.00	5,000	61.40	5,000
1-3/4"	15.60	57.90	5,000	71.00	4,350
1-7/8"	17.90	66.50	4,400	81.50	3,800
2"	20.40	75.70	3,900	92.80	3,320
2-1/8"	23.00	85.50	3,400	105.00	2,940
2-1/4"	25.80	95.80	3,100	117.00	2,640
2-3/8"	28.80	107.00	2,800	131.00	2,360
HIGH PRESSURE PUMP (10,000 PSI)					
1-1/8"	6.45	23.90	10,000		
1-1/4"	7.95	29.50	10,000		
1-3/8"	9.65	35.70	8,300		
VERY HIGH PRESSURE PUMP (30,000 PSI)					
5/8"	1.99	7.38	30,000		
3/4"	2.89	10.70	28,000		
7/8"	3.92	14.50	20,000		
1"	5.10	18.90	15,700		

Displacements are based on 100% volumetric efficiency
Stroke 5 inches

