

Typical Performance and Application Information of Single Units

Model Series	Delivery Sgpm @ 1200 r/min) & 100 psi	Displ. in ³ / r (cm ³ /r)	Maximum speed r/min	Maximum-pressure psi(bar)	Typical delivery Usgpm (L/min) @max. speed&pres.	Typical Input hp (KW) @ max.speed&pres.	Typical Input hp (KW) @ max.speed&pres.
V10	1	0.20(3.30)	4800	2500(170)	3.6(13.60)	7.00(5.25)	10-15 (4.5-6.9)
	2	0.40 (6.60)	4500	2500(170)	7.3 (27.50)	13.6(10.0)	
	3	0.60 (9.80)	4000	2500(170)	9.5 (35.50)	17.8 (13.5)	
	4	0.80 (13.1)	3400	2500(170)	10.8(41.50)	20.5 (15.5)	
	5	1.00(16.4)	3200	2500(170)	12.8(48.50)	23.0(17.5)	
	6	1.19(19.5)	3000	2200(150)	14.5(55.50)	24.6(18.5)	
	7	1.39 (22.8)	2800	2000(140)	16.0(60.50)	25.0 (19.1)	
V20	6	1.20 (19.6)	4800	2500(170)	16.0 (60.9)	30.0 (22.0)	16 -18 (7.4 - 8.3)
	7	1.40 (23.0)	4500	2500(170)	16.5(63.2)	30.0 (22.0)	
	8	1.60(26.0)	4000	2500(170)	17.5 (67.1)	32.5 (24.5)	
	9	1.80 (30.0)	3400	2500(170)	20.0 (75.1)	35.5 (35.5)	
	11	2.20 (36.5)	3200	2500(170)	22.8 (86.7)	37.5 (37.5)	
	12	2.40 (40.0)	3000	2200(150)	23.0(87.0)	36.0 (36.0)	
	13	2.60 (42.5)	2800	2200(150)	26.0 (98.1)	39.0 (39.0)	

Typical Performance and Application Information of Double Units

Model Series	Shaft End Pump						Cover End Pump						Weight kg(lb)
	Delivery Usgpm @1200 r/min & 100 psi (7 bar)	Displ. in ³ / r (cm ³ /r)	Max. speed r/min	Max. pressure psi (bar)	Typical Delivery Usgpm (L/min) @max speed & pressure	Typical Delivery Usgpm (L/min) @max speed & pressure	Typical Input Hp (KW) @max speed & pressure	Delivery Usgpm @1200 r/min & 100 psi (7 bar)	Max. speed r/min	Max. pressure psi (bar)	Typical Delivery Usgpm (L/min) @max speed & pressure	Typical Input Hp(KW) @max speed & pressure	
V2010	6	1.19(19.5)	3000	2500(175)	14.5(54.9)	24.5(18.3)	1	0.20(3.30)	3000	2500(175)	2.00(7.67)	4.50(3.40)	30(13.6)
	7	1.39(22.8)	3000	2500(175)	16.5(62.5)	30.0(22.4)	2	0.40(6.60)	3000	2500(175)	4.70(17.8)	9.00(6.70)	
	8	1.62(26.5)	3000	2500(175)	17.5(66.2)	32.5(24.2)	3	0.60(9.80)	3000	2500(175)	7.00(26.5)	13.4(10.0)	
	9	1.81(29.7)	3000	2500(175)	20.0(75.7)	35.5(26.5)	4	0.80(13.1)	3000	2500(175)	9.50(36.0)	18.0(13.4)	
	11	2.22(36.4)	3000	2500(175)	22.8(86.1)	36.0(26.8)	5	1.00(16.4)	3000	2500(175)	12.0(45.4)	21.5(16.0)	
	12	2.38(39.0)	3000	2500(175)	23.0(87.1)	37.5(28.0)	6	1.19(19.5)	3000	2500(175)	14.5(54.9)	24.5(18.3)	
	13	2.59(42.4)	3000	2500(175)	26.0(98.4)	39.0(29.1)							
V2020	12	2.38(39.0)	3000	2500(175)	23.0(87.1)	23.0(87.1)	6	1.19(19.5)	3000	2500(175)	14.5(54.9)	24.5(18.3)	
	13	2.59(2.59)	3000	2500(175)	26.0(98.4)	26.0(98.4)	7	1.39(22.8)	3000	2500(175)	16.5(62.5)	30.0(22.4)	
							8	1.62(26.5)	3000	2500(175)	17.5(66.2)	32.5(24.2)	
							9	1.81(29.7)	3000	2500(175)	20.0(75.7)	35.5(26.5)	
							11	2.22(36.4)	3000	2500(175)	22.8(86.1)	36.0(26.8)	

Application Information

Shaft loading must be checked for excessive torque. Connections should always be tight to prevent air from entering the system. Oil level of reservoir is not below the “low” limit.

Before starting, the pump must be filled fully with system fluid. And all controls should be placed in the neutral position so the pump is unloaded when started. Start the engine and run at low idle. At initial startup, it is necessary to loose outlet connection to remove a trapped air.

Pumps should not be operated close to rated pressures at idle speeds for a long period. It will cause overheating and damage. Minimum speed is generally about 600 r/min.