

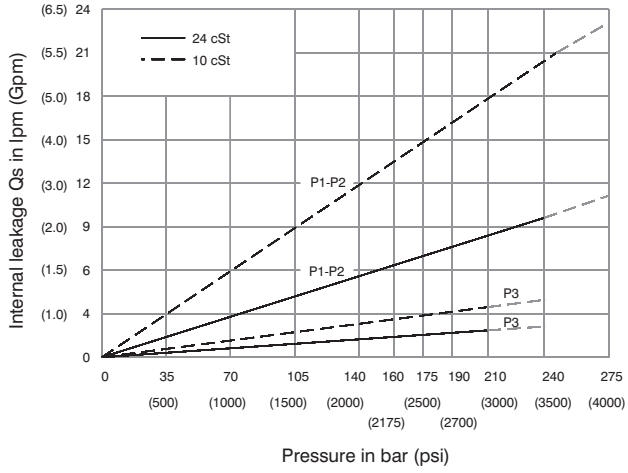
OPERATING CHARACTERISTICS - TYPICAL (24 cST) (Input power p (KW) for one cartridge only)

Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1500 rpm						Input power p & n = 1500 rpm					
		in ³ /rev	cm ³ /rev	p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
				gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
P1 & P2	003	0.66	10.8	4.29	16.2	2.96	11.2	2.04	7.7	1.74	1.3	7.11	5.3	11.26	8.4
	005	1.05	17.2	6.83	25.8	5.50	20.8	4.57	17.3	1.88	1.4	10.06	7.5	16.36	12.2
	006	1.30	21.3	8.44	31.9	7.11	26.9	6.19	23.4	2.01	1.5	11.94	8.9	19.71	14.7
	008	1.61	26.4	10.48	39.6	9.15	34.6	8.22	31.1	2.15	1.6	14.35	10.7	22.93	17.7
	010	2.08	34.1	13.52	51.1	12.19	46.1	11.26	42.6	2.28	1.7	18.64	13.4	29.90	22.3
	012	2.26	37.1	14.71	55.6	13.36	50.6	12.46	47.1	2.28	1.7	19.31	14.4	32.32	24.1
	014	2.81	46.0	18.25	69.0	16.93	64.0	16.00	60.5	2.55	1.9	23.60	17.6	39.56	29.5
	015	3.08	50.5	20.00	75.6	18.73	73.2	19.02	67.5	2.68	2.0	25.61	19.1	42.91	32.0
	017	3.56	58.3	23.12	87.4	21.79	82.4	20.87	78.9	2.82	2.1	29.37	21.9	49.48	36.9
	020	3.89	63.8	25.32	95.7	23.99	90.7	23.07	87.2	2.95	2.2	31.92	23.8	53.91	40.2
	022	4.29	70.3	27.88	105.4	26.56	100.4	25.63	96.9	3.08	2.3	35.00	26.1	59.14	44.1
	025	4.84	79.3	31.46	118.9	30.13	113.9	29.21	110.4	3.35	2.5	39.16	29.2	66.38	49.5
	028	5.42	88.8	35.24	133.2	33.92	128.2	33.28 ¹⁾	125.8 ¹⁾	3.75	2.8	43.85	32.7	65.04 ¹⁾	48.5 ¹⁾
031	6.10	100.0	39.68	150.0	38.35	145.0	37.72 ¹⁾	142.6 ¹⁾	3.75	2.8	48.95	36.5	72.95 ¹⁾	54.4 ¹⁾	
P3				p = 0 bar (0 psi)	p = 100 bar (1500 psi)	p = 240 bar (3000 psi)	p = 7 bar (100 psi)	p = 100 bar (1500 psi)	p = 240 bar (3000 psi)						
	B02	0.39	6.5	2.64	10.0	2.11	8.0	-	-	0.53	0.4	2.81	2.1	-	-
	B03	0.54	8.8	3.49	13.2	2.96	11.2	2.43	9.2	0.67	0.5	3.62	2.7	7.11	5.3
	B04	0.78	12.8	5.08	19.2	4.55	17.2	4.02	15.2	0.93	0.7	5.23	3.9	10.06	7.5
	B06	1.26	20.7	8.20	31.0	7.67	29.0	7.14	27.0	1.07	0.8	8.05	6.0	12.34	9.2
	B08	1.59	26.1	10.34	39.1	9.78	37.0	9.25	35.0	1.34	1.0	10.05	7.5	15.69	11.7
	B09	1.92	31.5	12.48	47.2	11.93	45.1	11.42	43.2	1.47	1.1	11.94	8.9	23.60	17.6
B12	2.42	39.7	15.74	59.5	15.18	57.4	14.68	55.5	1.74	1.3	15.02	11.2	29.50	22.0	

1) 028-031 = 210 bar (3000 psi) max. int.

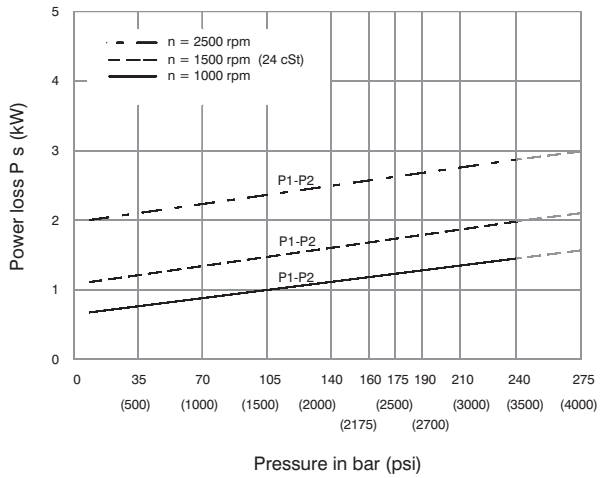
- Not to use because internal leakage greater than 50% of theoretical flow

INTERNAL LEAKAGE (TYPICAL)



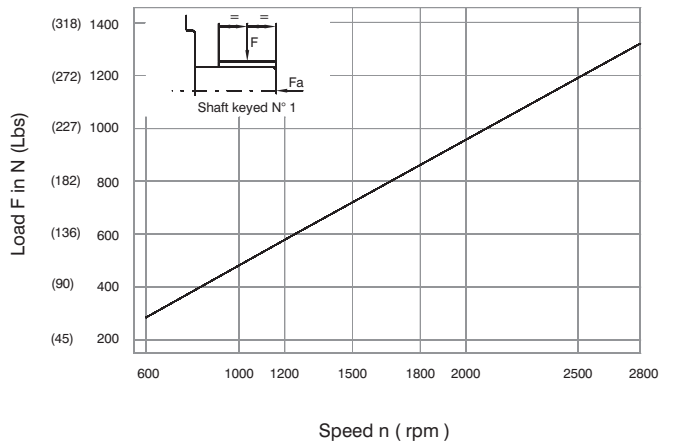
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

HYDROMECHANICAL POWER LOSS (TYPICAL)



Total hydromechanical power loss is the sum of each section at its operating conditions.

PERMISSIBLE RADIAL LOAD



Maximum axial load permissible $F_a = 800 \text{ N (180 Lbs)}$



