

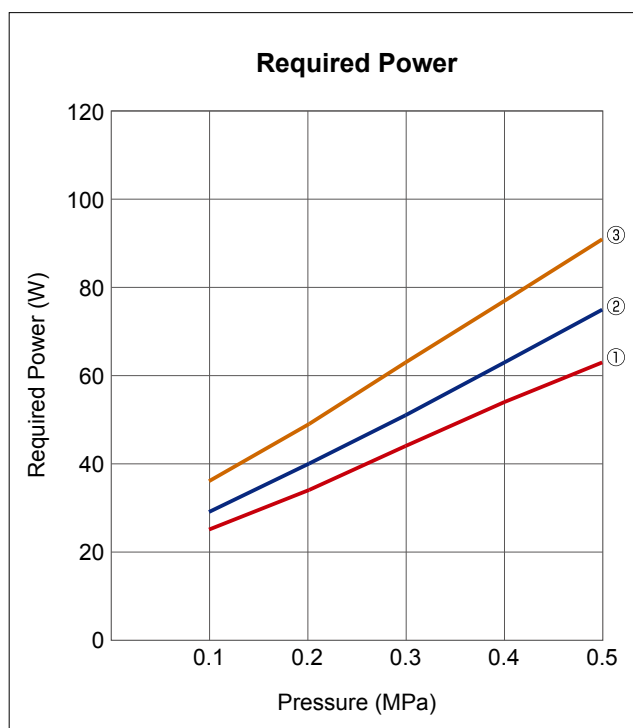
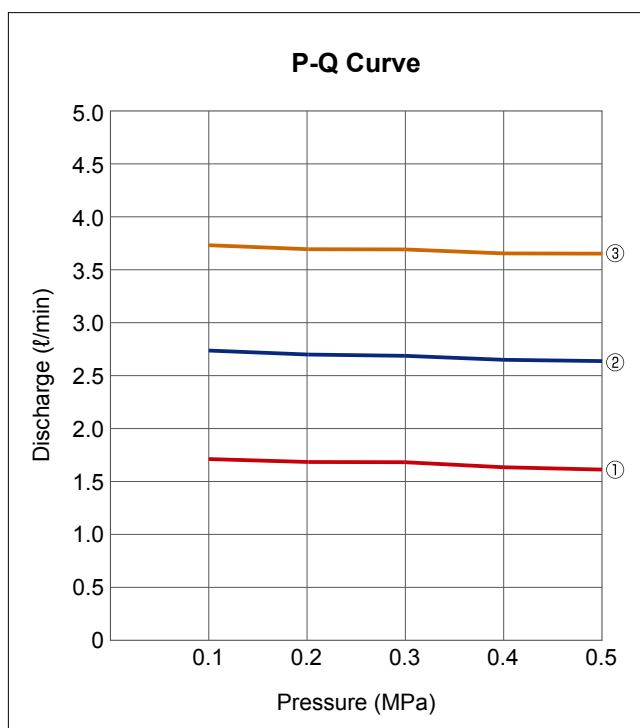
1RA Performance Curve

Test Oil: ISO-VG46 Oil Temperature: 40C (Average)

Note : As the temperature of oil drops in winter, the viscosity also increases and so does the required power. So please be careful as you may not be able to operate the pump near the rated pressure.

1450 min⁻¹

① 1RA-100 ② 1RA-200 ③ 1RA-300



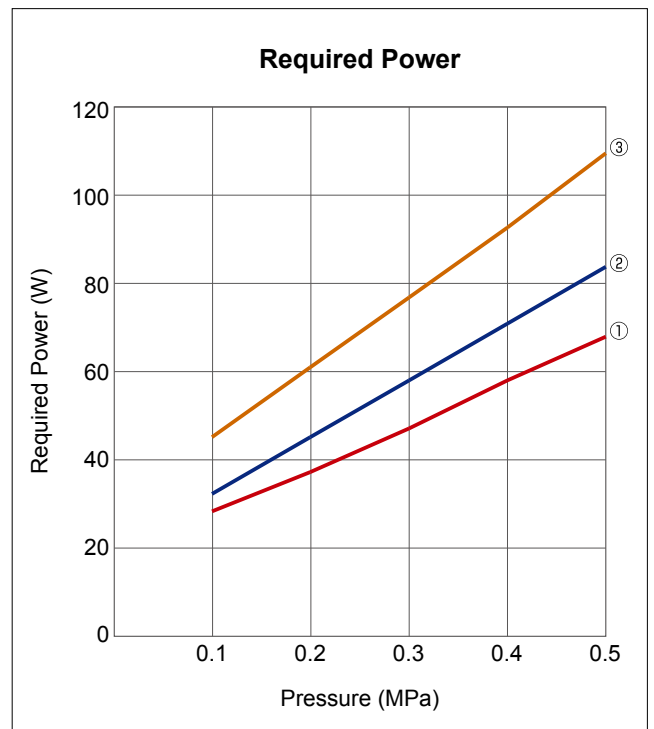
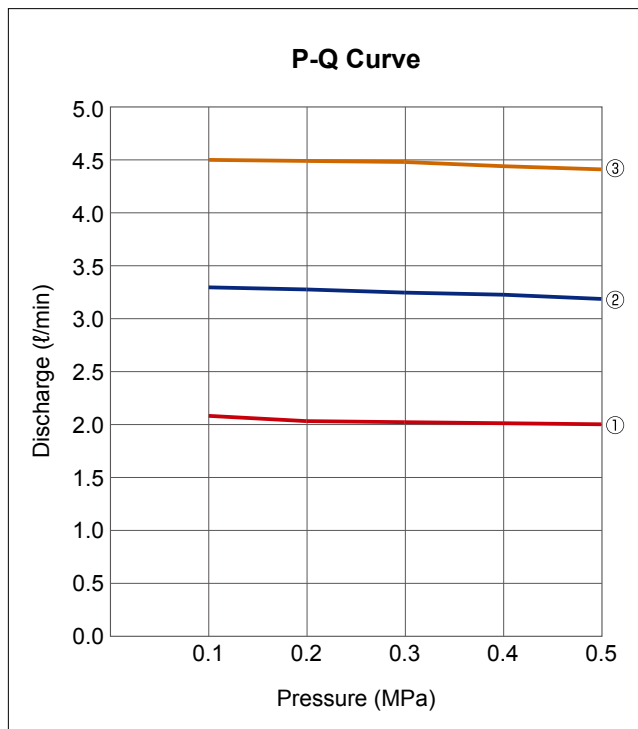
Item	Discharge (l/min)					Required Power (W)				
	Pressure (MPa)					Pressure (MPa)				
	0.1	0.2	0.3	0.4	0.5	0.1	0.2	0.3	0.4	0.5
TOP-1RA-100	1.69	1.68	1.66	1.63	1.59	25	34	44	54	63
TOP-1RA-200	2.72	2.70	2.67	2.65	2.62	29	40	51	63	75
TOP-1RA-300	3.72	3.70	3.68	3.66	3.64	36	49	63	77	91

Test Oil: ISO-VG46 Oil Temperature: 40C (Average)

Note : As the temperature of oil drops in winter, the viscosity also increases and so does the required power. So please be careful as you may not be able to operate the pump near the rated pressure.

1750 min⁻¹

① 1RA-100 ② 1RA-200 ③ 1RA-300



Model	Item	Discharge (l/min)					Required Power (W)				
		Pressure (MPa)					Pressure (MPa)				
		0.1	0.2	0.3	0.4	0.5	0.1	0.2	0.3	0.4	0.5
TOP-1RA-100		2.08	2.03	2.02	2.01	2.00	28	37	47	58	68
TOP-1RA-200		3.30	3.28	3.25	3.23	3.19	32	45	58	71	84
TOP-1RA-300		4.51	4.50	4.49	4.45	4.42	45	61	77	93	110

Any disassembly or alteration of the product will void the warranty.