



Technical Catalogue



FIG Series

Internal Gear Pump

BRIEF INTRODUCTION

FIG series internal gear pump is a kind of new positive displacement pump, and designed according to the different fields requirements of petroleum, chemical industry, paint, medicine, foodstuff and so on. It widely applies to a variety of mediums with different property and viscosity because of special structure and selected different pump's materials.

- Proper medium temperature: 10°C ~ 200°C
- Proper medium viscosity: 1.0cSt ~ 300.000cSt

ADVANTAGES

- (1) Steady delivery without pulsation, little vibration and noise.
- (2) Outstanding self-priming ability
- (3) The pump can delivery the varied corrosion mediums if the proper material of parts selected. In addition, the working temperature can reach 200°C
- (4) The same rotary direction of internal rotor and outside rotor result in little wear and long operation life.
- (5) The pump's flow capacity can be changed through adjusting the speed.
- (6) It's specially suited to deliver high visc medium.

PERFORMANCE DATA

Model	Nominal Size	Displacement L/100rev	Viscosity cSt	Speed r/min	Differential Pressure(MPa)				Connection
					0.4	0.6	0.8	1.0	
					Power(kW)		Capacity(L/min)		
FIG78A	15	0.78	20	1390	0.17 / 9.3	0.23 / 9.0	0.28 / 8.8	0.32 / 8.6	G1 / 2
			60	1390	0.18 / 9.5	0.24 / 9.2	0.28 / 9.0	0.33 / 8.9	
			200	1390	0.31 / 10.4	0.35 / 10.2	0.39 / 10.0	0.43 / 9.9	
			600	1390	0.39 / 10.4	0.44 / 10.3	0.48 / 10.3	0.52 / 10.2	
			2000	910	0.23 / 6.8	0.27 / 6.8	0.30 / 6.8	0.33 / 6.7	
			6000	720	0.24 / 5.4	0.31 / 6.1	0.38 / 6.8	0.40 / 6.8	
FIG2.3A	25	2.3	20	1400	0.38 / 28.4	0.49 / 27.5			G1
			60	1400	0.59 / 29.2	0.65 / 28.8			
			200	1400	0.61 / 30.0	0.72 / 29.6			
			600	1400	0.92 / 31.9	0.96 / 31.7			
			2000	910	0.61 / 19.9	0.68 / 19.7			
			6000	720	0.77 / 16.32	0.83 / 16.2			
FIG3.6	40	3.6	20	1450	0.69 / 46.7	0.94 / 45.9	1.18 / 45	1.44 / 43.4	Flange
			60	1450	0.81 / 47.5	1.09 / 46.7	1.37 / 45.9	1.57 / 44.7	
			200	1450	1.06 / 49.7	1.31 / 49.2	1.56 / 48.8	1.79 / 48.3	
			600	1450	1.45 / 49.9	1.61 / 49.6	1.77 / 49.3	1.93 / 49	
			2000	960	1.28 / 34.3	1.41 / 33.8	1.54 / 33.7	1.65 / 33.6	
			6000	640	1.08 / 23.0	1.18 / 22.9	1.28 / 22.9	1.37 / 22.8	
			20000	583	1.22 / 20.5	1.24 / 20.4	1.25 / 20.4	1.38 / 20.3	
			60000	455	0.84 / 16.3	0.91 / 16.2	0.98 / 16.1	1.01 / 16	
FIG7.0A	40	7.0	20	1450	1.36 / 98.1	1.8 / 96	2.0 / 94.7	2.4 / 93	Flange
			60	1450	1.45 / 99	1.9 / 97	2.2 / 96.4	2.6 / 95	
			200	1450	1.62 / 99.8	2.0 / 98	2.3 / 97.5	2.7 / 97	
			600	960	1.4 / 62	1.6 / 65	1.8 / 64.5	2.0 / 64	
			2000	960	1.8 / 67	2.0 / 66	2.3 / 65	2.6 / 65	
			6000	640	1.5 / 44.5	1.7 / 44	1.8 / 44	2.0 / 44	
			20000	583	1.6 / 40.5	1.8 / 40	2.1 / 40	2.2 / 40	
			60000	455	1.46 / 31.5	1.8 / 31	1.9 / 31	2.0 / 31	
FIG24	50	24	20	720	1.8 / 165	2.3 / 161	2.8 / 158	3.4 / 155	Flange
			60	720	2.0 / 166	2.6 / 164	3.1 / 162	3.7 / 158	
			200	610	1.9 / 143	2.5 / 141	3.0 / 139	3.5 / 136	
			600	541	2.1 / 127	2.6 / 125	3.0 / 124	3.5 / 122	
			2000	475	2.2 / 112	2.6 / 111	2.9 / 110	3.4 / 109	
			6000	357	2.0 / 85	2.3 / 84	2.6 / 83	2.9 / 83	
			20000	303	1.9 / 72	2.2 / 72	2.4 / 72	2.6 / 71	
			60000	228	1.6 / 54	1.8 / 54	2.0 / 54	2.3 / 54	
FIG52A	50	52	20	720	4.3 / 362	5.8 / 355	6.9 / 348	8.1 / 340	Flange
			60	720	4.7 / 364	6.2 / 358	7.3 / 352	7.5 / 346	
			200	610	4.6 / 309	5.9 / 304	6.9 / 300	8.0 / 294	
			600	541	4.9 / 275	6.0 / 271	6.8 / 268	7.8 / 264	
			2000	475	5.0 / 243	5.9 / 238	6.6 / 237	7.6 / 235	
			6000	357	4.1 / 184	4.9 / 182	5.3 / 181	6.2 / 180	
			20000	303	3.8 / 157	4.6 / 156	5.1 / 155	5.6 / 155	
			60000	228	3.1 / 119	3.7 / 118	4.0 / 118	4.5 / 118	

Model	Nominal Size	Displacement L/100rev	Viscosity cSt	Speed r/min	Differential Pressure(MPa)				Connection
					0.4	0.6	0.8	1.0	
					Power(kW)/		Capacity(L/min)		
FIG80A	80	80	20	615	5.2 / 471	6.9 / 461	8.5 / 451	10.0 / 433	Flange
			60	615	5.5 / 474	7.2 / 465	8.8 / 457	10.5 / 448	
			200	544	5.7 / 421	7.2 / 414	8.6 / 408	10.1 / 401	
			600	479	6.0 / 372	7.3 / 367	8.5 / 362	9.8 / 356	
			2000	417	6.5 / 326	7.7 / 322	8.9 / 319	10.1 / 315	
			6000	305	5.6 / 239	6.6 / 237	7.5 / 326	8.4 / 233	
			20000	228	5.5 / 180	6.4 / 179	6.9 / 178	7.7 / 177	
			60000	188	5.5 / 149	6.1 / 149	6.7 / 149	7.2 / 148	
FIG111A	80	111.4	20	615	6.7 / 660	9.2 / 647	11.2 / 634	13.6 / 622	Flange
			60	615	6.9 / 664	9.4 / 652	11.5 / 642	13.9 / 631	
			200	544	7.1 / 589	9.3 / 580	11.0 / 573	13.2 / 563	
			600	479	7.3 / 521	9.5 / 514	11.1 / 508	13.1 / 502	
			2000	417	7.7 / 455	9.7 / 450	11.0 / 447	12.7 / 442	
			6000	305	6.9 / 335	8.4 / 332	9.4 / 331	10.6 / 328	
			20000	228	6.3 / 251	7.5 / 250	8.2 / 249	9.2 / 248	
			60000	188	6.2 / 209	7.1 / 208	7.6 / 208	8.5 / 207	
FIG160A	100	160	20	600	8.9 / 930	12.1 / 916	15.3 / 902	17.5 / 888	Flange
			60	600	9.4 / 935	12.6 / 922	15.8 / 910	19.0 / 898	
			200	550	12.3 / 866	15.3 / 859	18.3 / 852	21.3 / 845	
			600	480	10.2 / 754	12.8 / 747	15.4 / 740	18.0 / 737	
			2000	355	9.1 / 560	11.1 / 556	13 / 552	15.1 / 548	
			6000	319	10.0 / 505	11.7 / 502	13.5 / 500	15.2 / 497	
FIG220	125	220	20	430	8.8 / 902	11.9 / 880	15.0 / 858	18.0 / 836	Flange
			60	430	9.0 / 909	12.0 / 890	15.0 / 871	18.0 / 852	
			200	355	8.5 / 753	11.1 / 739	13.7 / 726	16.3 / 713	
			600	320	9.4 / 682	11.8 / 671	14.1 / 660	16.5 / 649	
			2000	284	9.1 / 544	11.0 / 537	13.0 / 530	15.1 / 523	
			6000	244	10.1 / 483	11.9 / 478	13.6 / 473	15.4 / 468	
			20000	160	9.1 / 347	10.5 / 345	11.9 / 343	13.3 / 341	
			60000	117	8.4 / 256	9.4 / 255	10.4 / 254	11.4 / 253	
FIG320	125	320	20	430	13.0 / 1306	18.0 / 1270	22.0 / 1235	26.0 / 1200	Flange
			60	430	13.0 / 1316	18.5 / 1285	22.0 / 1255	26.5 / 1225	
			200	355	11.8 / 1091	15.5 / 1068	19.1 / 1046	22.8 / 1024	
			600	320	13.2 / 987	16.5 / 968	19.7 / 950	22.9 / 932	
			2000	284	14.2 / 881	17.4 / 867	20.6 / 854	23.8 / 841	
			6000	222	13.7 / 693	16.2 / 684	18.7 / 675	21.2 / 666	
			20000	168	13.2 / 529	15.3 / 525	17.3 / 522	19.4 / 519	
			60000	125	12.0 / 397	13.7 / 396	15.3 / 395	16.9 / 394	

Model	Nominal Size	Displacement L/100rev	Viscosity cSt	Speed r/min	Differential Pressure(MPa)				Connection
					0.4	0.6	0.8	1.0	
					Power(kW)/		Capacity(L/min)		
FIG650	150	650	20	315	19.0 / 1921	26.0 / 1857	33.0 / 1794		Flange
			60	315	20.0 / 1940	26.4 / 1886	33.2 / 1832		
			200	284	17.9 / 1756	24.0 / 1711	30.4 / 1666		
			600	253	17.6 / 1572	22.7 / 1534	28.9 / 1500		
			2000	196	15.7 / 1225	20.6 / 1201	24.5 / 1176		
			6000	160	16.0 / 1008	19.8 / 993	22.6 / 978		
			20000	117	13.6 / 745	16.5 / 738	19.2 / 731		
			60000	100	15.0 / 645	17.2 / 643	19.5 / 640		
FIG727	150	727	20	315	21.5 / 2135	29.4 / 2058	37.3 / 1980		Flange
			60	315	22.4 / 2157	29.8 / 2090	37.3 / 2026		
			200	280	19.6 / 1928	26.7 / 1874	33.5 / 1820		
			600	245	19.6 / 1696	25.1 / 1652	31.2 / 1611		
			2000	200	18.7 / 1394	23.3 / 1363	28.5 / 1334		
			6000	170	19.2 / 1195	23.3 / 1175	27.9 / 1155		
			20000	125	17.0 / 888	20.1 / 878	23.3 / 868		
			60000	100	16.8 / 720	19.5 / 717	22.3 / 713		
FIG1670	200	1670	20	250	38.0 / 3852	52.0 / 3690	66.0 / 3529		Flange
			60	250	40.0 / 3900	54.0 / 3763	68.0 / 3626		
			200	225	37.5 / 3535	50.0 / 3424	62.5 / 3313		
			600	195	37.0 / 3079	48.0 / 2990	58.6 / 2900		
			2000	160	35.0 / 2547	44.0 / 2485	53.0 / 2422		
			6000	135	34.6 / 2177	42.0 / 2138	50.0 / 2100		
			20000	112	35.0 / 1830	41.5 / 1810	48.0 / 1790		
			60000	85	36.0 / 1405	35.7 / 1400	40.6 / 1392		

Note : Please contact the manufacturer when you select the speed and power to higher viscosity liquid.



FIG Series - Gear Pump

Authorized Distributor