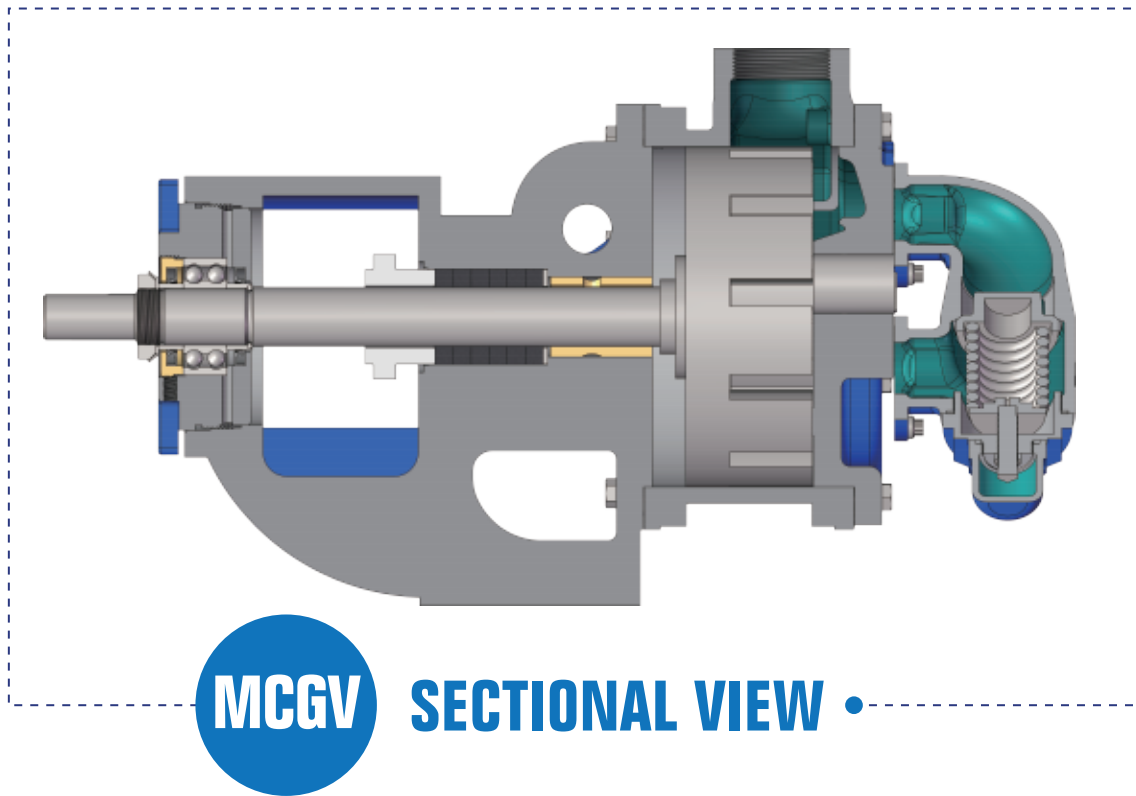




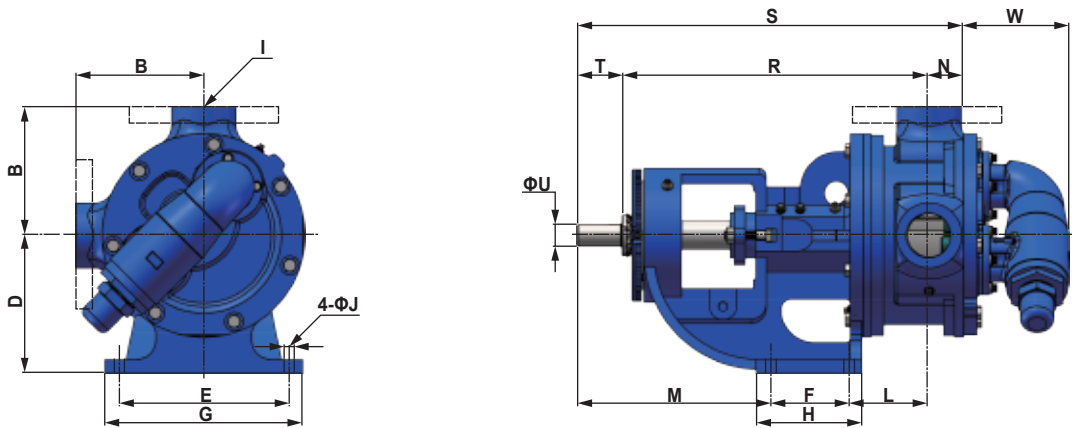
AMOS
A MODEL OF SUCCESS IN FLUID TECHNOLOGY



MCGV SERIES GEAR PUMP



▼ **OUTLINE DIMENSIONS** [Unit: inch (mm)]



PUMP TYPE	B	D	E	G	J	I	S	T
HL124A	76.2	88.9	139.7	171.0	11.9	1½"-11½NPT	336.5	41.1
K124A	130.2	139.7	203.2	238.0	13.5	2"-11½NPT	460.2	57.1
LQ124A	182.6	177.8	222.3	256.0	13.5	2.5"150LB-FF	498.3	57.1
L124A	165.1	177.8	222.3	256.0	13.5	2"-11½NPT	498.3	57.1
LL124A	182.6	177.8	222.3	256.0	13.5	3 " 150LB-FF	511.0	57.1
PUMP TYPE	R	N	W	M	F	H	L	U
HL124A	265.2	30.2	67.2	147.7	57.2	92.0	101.6	19.05
K124A	358.6	44.4	130.6	253.9	69.8	105.0	91.9	28.58
LQ124A	396.7	44.4	136.5	250.6	101.6	136.0	101.6	28.58
L124A	396.7	44.4	136.5	250.6	101.6	136.0	101.6	28.58
LL124A	396.7	57.1	136.5	250.6	101.6	136.0	101.6	28.58

PRODUCT FEATURES

The MCGV series pumps are heavy-duty, foot-mounted internal gear operating pumps with multiple seal options. This series is for a broad range of applications requiring continuous duty at pressures up to 200 psi (1379 kpa). Even higher pressures are possible with high fluid viscosities at reduced operating speeds (consult factory).

The MCGV series features 13 different sizes with flows to 1,600 GPM (250 m³/hr), with four materials of construction options, cast iron, ductile iron, steel externals and stainless steel. This series pumps design allow the use of packing, component seals or cartridge seals. Seal plans, including API plan 53 and 54. Pump casings can be positioned to meet common piping configurations.

▼ DYNAMIC SEAL OPTIONS

- Packing
- Single component mechanical seals.
- Cartridge lip mechanical seals.
- Cartridge single/double mechanical seals.
- Various seal flush plans are available.

▼ MATERIAL COMPOSITION

COMPONENT	HL124A、 L124A、 LL124A、 LQ124A、 K124A	MATERIAL
	Casing	CAST IRON ASTM A48, CLASS 35B
	Head	CAST IRON ASTM A48, CLASS 35B
	Head Plate for Jacketed Models	CAST IRON ASTM A48, CLASS 35B
	Bracket	CAST IRON ASTM A48, CLASS 35B
	Idler	CAST IRON ASTM A48, CLASS 35B
Rotor	Standard	CAST IRON ASTM A48, CLASS 35B
	Steel Fitted	STEEL ASTM A148, GRADE 80-40
	Rotor Shaft	STEEL ASTM A148, GRADE 80-40
	Idler Pin	BRONZE ASTM B584 (B505), ALLOY C93700
Idler Bushing	Packet	CARBON GRAPHITE
	Mech. Seal	CARBON GRAPHITE
Bracket Bushing	Packed	BRONZE ASTM B584 (B505), ALLOY C93700
	Mech. Seal	CARBON GRAPHITE
	Internal Pressure Relief Valve	CAST IRON ASTM A48, CLASS 35B

PERFORMANCE PARAMETER

38 SSU (4 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*
Flow(GPM)	13.5	28	75	96	133	135	192	270	440	480	870	1377
Pressure(PSI)	100	100	100	100	100	100	100	100	100	100	100	100
Speed(RPM)	1750	1750	780	780	640	520	640	520	520	350	280	280
Flow(M ³ /Hr)	3.1	6.4	17.0	22	30	31	44	61	100	109	198	313
Pressure(BAR)	7	7	7	7	7	7	7	7	7	7	7	7
See Curve#630-	1,2	13,14	25,26	37,38	49,50	61,62	73,74	85,86	97	105	113	①

100 SSU (22 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*
Flow(GPM)	15	31	77	102	141	143	204	296	460	520	965	1493
Pressure(PSI)	200	200	200	200	200	200	150	150	150	150	150	125
Speed(RPM)	1750	1750	780	780	640	520	640	520	520	350	280	280
Flow(M ³ /Hr)	3.4	7.0	17.5	23	32	32	46	67	104	118	219	339
Pressure(BAR)	14	14	14	14	14	14	10	10	10	10	10	10
See Curve#630-	3,4	15,16	27,28	39,40	51,52	63,64	75,76	87,88	98	106	114	①

750 SSU (165 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*
Flow(GPM)	17	32	79	105	146	149	209/137	300/200	470/315	565	1180	1551
Pressure(PSI)	200	200	200	200	200	200	150/200	150/200	150/200	200	175	125
Speed(RPM)	1750	1750	780	780	640	520	640/420	520/350	520/350	350	280	280
Flow(M ³ /Hr)	3.9	7.3	17.9	24	33	34	47/31	68/45	107/72	128	268	352
Pressure(BAR)	14	14	14	14	14	14	10/14	10/14	10/14	14	12	12
See Curve#630-	5,6	17,18	29,30	41,42	53,54	65,66	77,78	89,90	99	107	115	①

2,500 SSU (5,500 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*
Flow(GPM)	10.5	21.5	51	69	115	146	175	262	385	570	1185	1625
Pressure(PSI)	200	200	200	200	200	200	200	200	200	200	200	125
Speed(RPM)	1150	1150	520	520	520	520	520	420	420	350	280	280
Flow(M ³ /Hr)	2.4	4.9	11.6	15.7	26	33	40	60	87	129	269	369
Pressure(BAR)	14	14	14	14	14	14	14	14	14	14	12	14
See Curve#630-	7,8	19,20	31,32	43,44	55,56	67,68	79,80	91,92	100	108	116	①

7,500 SSU (1,650 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*
Flow(GPM)	10.5	21.2	43	56	95	119	145	220	325	460	905	1342
Pressure(PSI)	200	200	200	200	200	200	200	200	200	200	200	125
Speed(RPM)	1150	1150	420	420	420	420	420	350	350	280	230	230
Flow(M ³ /Hr)	2.4	4.8	9.8	12.7	22	27	33	50	74	104	206	304
Pressure(BAR)	14	14	14	14	14	14	14	14	14	14	14	14
See Curve#630-	9	21	33	45	57	69	81	93	101	109	117	①

25,000 SSU (5,500 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*
Flow(GPM)	8.8	17	36	48	82	100	122	175	260	380	750	1108
Pressure(PSI)	200	200	200	200	200	200	200	200	200	200	200	125
Speed(RPM)	950	950	350	350	350	350	350	280	280	230	190	190
Flow(M ³ /Hr)	2.0	3.9	8.2	10.9	18.6	23	28	40	59	86	170	252
Pressure(BAR)	14	14	14	14	14	14	14	14	14	14	14	14
See Curve#630-	10	22	34	46	58	70	82	94	102	110	118	①

75,000 SSU (16,500 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*
Flow(GPM)	7.2	11.5	23.2	31	53	67	80	120	175	263	490	730
Pressure(PSI)	200	200	200	200	200	200	200	200	200	200	200	125
Speed(RPM)	780	640	230	230	230	230	230	190	190	155	125	125
Flow(M ³ /Hr)	1.6	2.6	5.3	7.0	12.0	15.2	18.2	27	40	60	111	166
Pressure(BAR)	14	14	14	14	14	14	14	14	14	14	14	14
See Curve#630-	11	23	35	47	59	71	83	95	103	111	119	①

250,000 SSU (55,000 cSt)	H	HL	K	KK	L,LQ	LL	LS	Q	QS	N*	R*	RS*	
Flow(GPM)	4.1	Contact Factory	16	21	35	45	53	96	Contact Factory	214	340	494	
Pressure(PSI)	200		200	200	200	200	200	200		200	200	200	125
Speed(RPM)	420		155	155	155	155	155	155		155	125	84	84
Flow(M ³ /Hr)	0.9		3.6	4.8	7.9	10.2	12.0	22		49	77	112	112
Pressure(BAR)	14		14	14	14	14	14	14		14	14	14	14
See Curve#630-	12	24	36	48	60	72	84	96	104	112	120	①	