

OIL PUMPS

MP & FP Series

M50P, M60P, M80P, M100P and M125P
FP50 and FP60

MAYEKAWA
MYCOM



**Double Helical Screw
Type Oil Pumps**

<https://americas.mayekawa.com/mna>

Oil Pumps MP & FP Series

Double helical screw type oil pumps

The MYCOM oil pump is a high performance pump series based on screw compressor manufacturing technology developed over many years. Trusted for its high reliability, over 38,000 MYCOM oil pumps had been installed worldwide. Even under severe conditions such as high pressure, the MYCOM oil pump can operate stably for long periods of time.

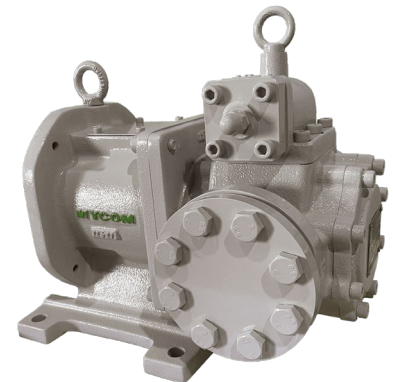
SPECIAL FEATURES

- Longer life
- High efficiency performance
- Industry proven durability with no thrust load screw gear structure
- Low noise, low vibration
- With integral pressure-regulating valve which creates an uncomplicated lube system (the relief valve can cover up to 50% of the total flow)
- Reverse rotation and reverse flow direction is available upon request
- Open type (MP series) and c-flange type (FP series) are available

Open Type MP SERIES



Flange Type FP SERIES



SPECIFICATIONS

Model	M50P	M60P	M80P	M100P	M125P	F50P	F60P	M50PH ^{*3}	M80PH ^{*3}	M100PH ^{*3}	M125PH ^{*3}	M50PS	M100PJ	M125PJ
Maximum Speed [rpm]	1750	1750	1750	1450	1150	1750	1750	1750	1750	1450	1150	1750	1450	1150
Minimum Speed [rpm]	950	950	720	720	720	950	950	950	720	720	720	950	720	720
Std Flow Direction ^{*1}	R → L	R → L	R → L	R → L	R → L	R → L	R → L	R → L	R → L	R → L	R → L	R → L	R → L	R → L
Rotation ^{*1}	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CCW	CCW	CCW	CCW	CCW
Max Capacity @50CST [GPM]	33	68	140	227	348	33	68	33	140	227	348	33	227	348
Design Pressure [psig]	377	377	377	377	377	377	377	435	435	435	435	798	580	580
Max. Outlet Pressure [psig]	362	319	362	362	362	319	319	319	319	435	435	798	580	580
Min. Inlet Pressure [psig]	-4.3													
Differential Pressure	with Relief Valve		Max. 58 psi											
	w/o Relief Valve		Max. 290 psi											
Max. Inlet Temperature [F] ^{*2}	Aluminum Bearing: 68-176 White Metal: 68-240 (FKM O-ring: 266)													
Viscosity of Fluid [cst]	3 - 500													
Oil Strainer Before Pump	≥ 150 μm													
Flange Type	JIS20K • ANSI#300	JIS20K	JIS20K • ANSI#300	JIS20K • ANSI#300	ANSI#300	JIS20K	JIS20K	JIS20K • ANSI#300	JIS20K • ANSI#300	JIS20K • ANSI#300	ANSI#300	ANSI#600	ANSI#300	ANSI#300

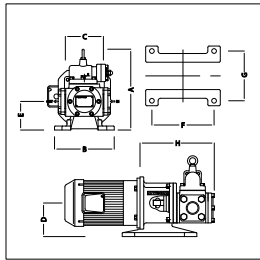
* 1. Reverse rotation and reverse flow direction is available upon request.

* 2. Higher temperature is available up to 266 deg. F.

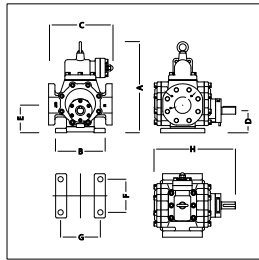
* 3. 2.5MPaG < Discharge Pressure: Tandem Shaft 2.8MPaG ≤ Design Pressure: Special Gasket + Tandem Shaft

SIZE CHART & DIMENSIONS

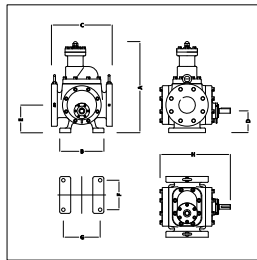
F50P / F60P



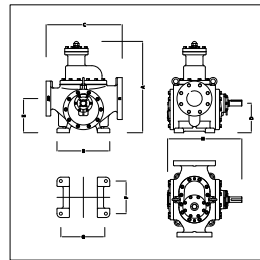
M50P / M60P



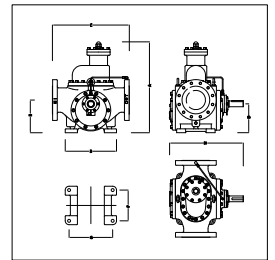
M80P



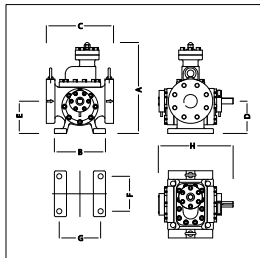
M100P



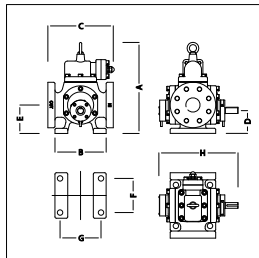
M125P



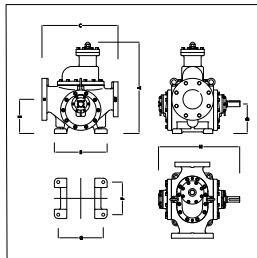
M50PS



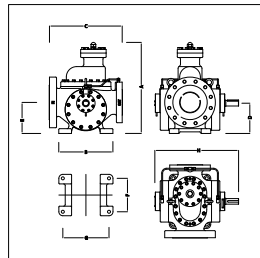
M50PH



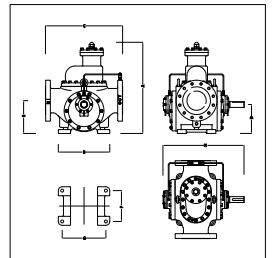
M100PH



M125PH



M100PJ



Model	A	B	C	D	E	F	G	H	Weight
M50P	320[13]	180[7]	230[9]	80[3]	100[4]	120[5]	144[6]	251[10]	37[82]
M60P	330[13]	180[7]	230[9]	80[3]	100[4]	120[5]	144[6]	296[12]	45[99]
M80P	495[19]	240[9]	330[13]	118[5]	150[6]	160[6]	200[8]	382[15]	116[256]
M100P	588[23]	340[13]	490[19]	190[7]	220[9]	210[8]	282[11]	478[19]	195[430]
M125P	709[28]	400[16]	600[24]	225[9]	255[10]	240[9]	340[13]	575[23]	325[717]
F50P	325[13]	240[9]	153[6]	135[5]	115[5]	250[10]	200[8]	299[12]	43[95]
F60P	355[14]	260[10]	234[9]	155[6]	125[5]	200[8]	220[9]	358[14]	62[137]
M50PS	339[13]	190[7]	250[10]	120[5]	120[5]	130[5]	154[6]	278[11]	48[105]
M50PH	320[13]	180[7]	230[9]	80[3]	100[4]	120[5]	144[6]	278[11]	37[82]
M80PH	495[19]	240[9]	330[13]	118[5]	150[6]	160[6]	200[8]	409[16]	116[256]
M100PH	588[23]	340[13]	490[19]	190[7]	220[9]	210[8]	290[11]	523[21]	195[430]
M125PH	709[28]	400[16]	600[24]	225[9]	255[10]	240[9]	340[13]	623[25]	325[717]
M100PJ	572[23]	340[13]	457[18]	190[7]	195[8]	210[8]	290[11]	526[21]	200[441]
M125PJ	Please contact us for M125PJ dimensions								

* Information shown here is for reference only. Subject to change without notice. Please contact Mayekawa for details.

**Measurements are in mm [inches] and kg [lbs].

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