

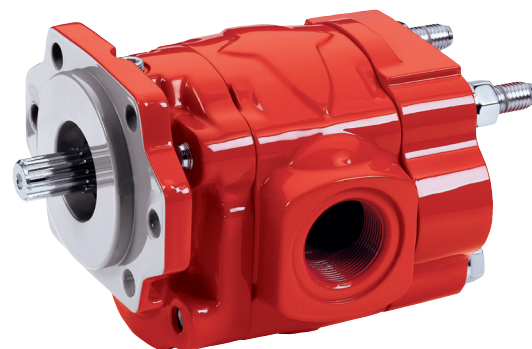
L SERIES

PUMP & MOTOR



BI-ROTATIONAL, FOUR PORT DESIGN

Muncie PL gear pumps come in sizes to fit higher flow rate applications. The PL Series pumps are cast iron and feature bi-rotational, four port construction. All can be either direct mounted to a power take-off, or remote mounted and shaft driven. PL pumps can also be used as high speed, low torque hydraulic motors.



KEY FEATURES

- Seven pump sizes
- Bi-rotational Pump/Motor
- High grade cast iron
- Versatile 4-port design
- High pressures: Up to 3000 PSI (207 BAR)
- Four shaft options
- Four mounting flange options
- Optional relief valve

PUMP AND MOTOR SPECIFICATIONS

MODEL NO.	DISPL. CU IN(CC)	MAX* RPM	MIN* RPM	MAX* PRES PSI (BAR)	N.P.T. SIDE PORT	O.D.T. SIDE PORTS	N.P.T. REAR PORTS	PUMP O.D.T. REAR PORTS	MOTOR O.D.T. REAR PORTS	WT.** LBS (KG)
PL114	3.18 (52)	3000	600	3000 (207)	1	1	1-1/2	1	1-1/4	26.5 (12.1)
PL116	3.82 (63)	3000	600	3000 (207)	1	1	1-1/2	1	1-1/4	27.8 (12.6)
PL119	4.46 (73)	3000	600	3000 (207)	1-1/4	1-1/4	1-1/2	1	1-1/4	29.0 (13.1)
PL123	5.20 (85)	3000	600	2500 (172)	1-1/4	1-1/4	1-1/2	1	1-1/4	30.3 (13.8)
PL125	5.73 (93)	2500	600	2500 (172)	1-1/2	1-1/2	1-1/2	1	1-1/4	31.6 (14.3)
PL127	6.37 (104)	2500	600	2500 (172)	1-1/2	1-1/2	1-1/2	1	1-1/4	33.0 (15.0)
PL130	7.01 (115)	2500	600	2000 (138)	1-1/2	1-1/2	1-1/2	1	1-1/4	34.1 (15.5)

MAX INLET VACUUM - 5IN. HG. (.17 BAR)

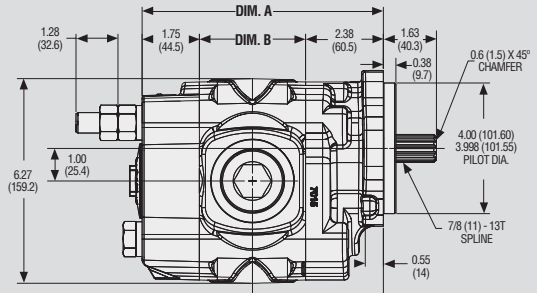
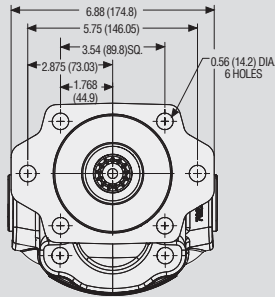
MAX INLET BACK PRESSURE - 150 PSI (10 BAR)

INSTALLATION DIMENSIONS

SINGLE PUMP "B" DIRECT MOUNT (SAE "B")

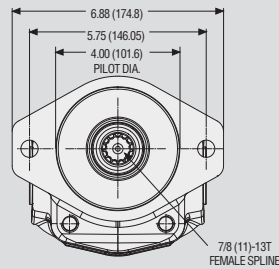
MODEL NO.	DIM A PKS IN(MM)	DIM B N (MM)
14	4.81 (122.2)	2.00 (50.8)
16	6.38 (162.1)	2.25 (57.2)
19	6.62 (168.1)	2.50 (63.5)
23	6.88 (174.8)	2.75 (69.9)
25	7.12 (180.8)	3.00 (76.2)
27	7.38 (187.5)	3.25 (82.6)
30	7.62 (193.5)	3.50 (88.9)

*ADD 1.00 (25.4) TO "A" DIMENSION FOR ROUND SHAFT WITH O.B. BEARING

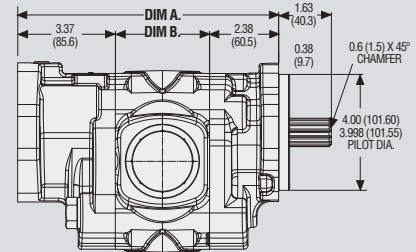


TANDEM VERSATILE (FRONT PUMP) SAE "B" SHOWN

MODEL NO.	DIM A IN(MM)	DIM B IN(MM)
14	7.74 (196.6)	2.00 (50.8)
16	8.00 (203.2)	2.25 (57.2)
19	8.24 (209.3)	2.50 (63.5)
23	8.50 (215.9)	2.75 (69.9)

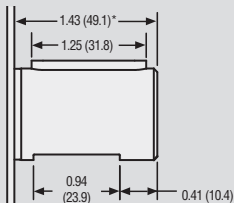


Rear Pump Flange
SAE "B" 2 Bolt

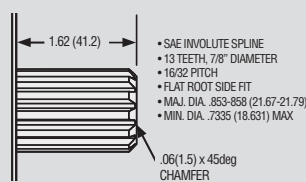


SHAFT OPTIONS

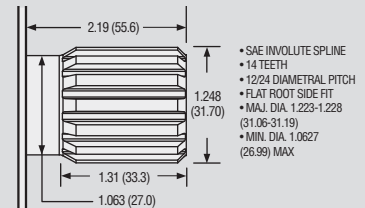
SHAFT TYPE: 01
1.00" RND. - 1/4" Key • STL ≤ 16,900



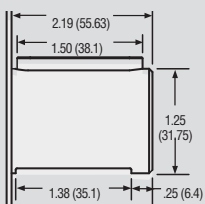
SHAFT TYPE: 02
7/8" - 13T (SAE "B") • STL ≤ 16,550



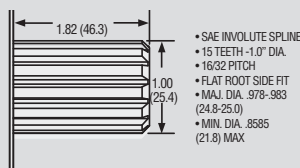
SHAFT TYPE: 05
1-1/4" - 14T (SAE "C") • STL ≤ 35,900



SHAFT TYPE: 07
1-1/4" RND. - 5/16" Key • STL ≤ 33,300



SHAFT TYPE: 17
1.00" - 15T (SAE "B") • STL ≤ 25,650

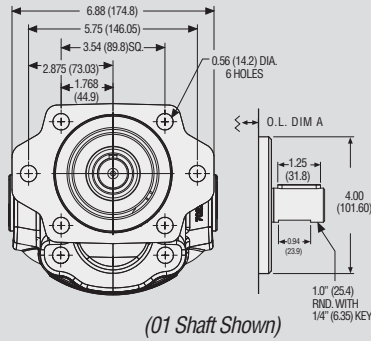


* "F" Mount - 23(5.8) shorter

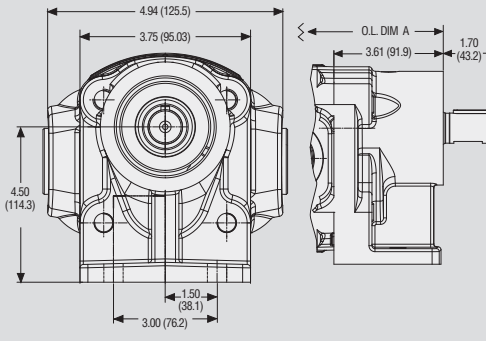
FRONT COVER OPTIONS

“B” DIRECT MOUNT (SAE “B”) IN(MM)

MODEL NO.	O.L. DIM A
14	7.12 (180.8)
16	7.38 (187.5)
19	7.62 (193.5)
23	7.88 (200.2)
25	8.12 (206.2)
27	8.38 (212.9)
30	8.62 (218.9)



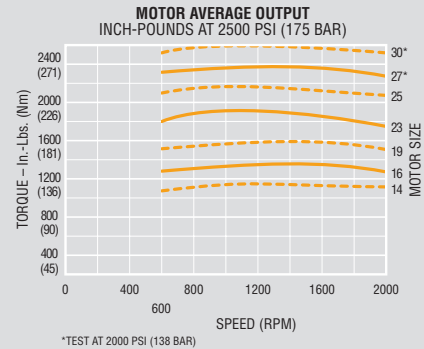
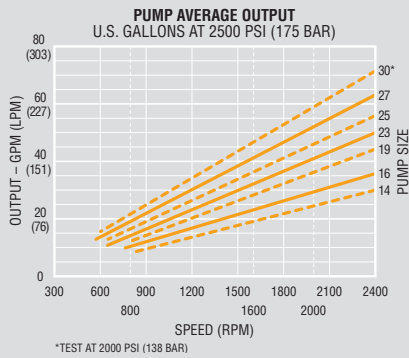
(01 Shaft Shown)



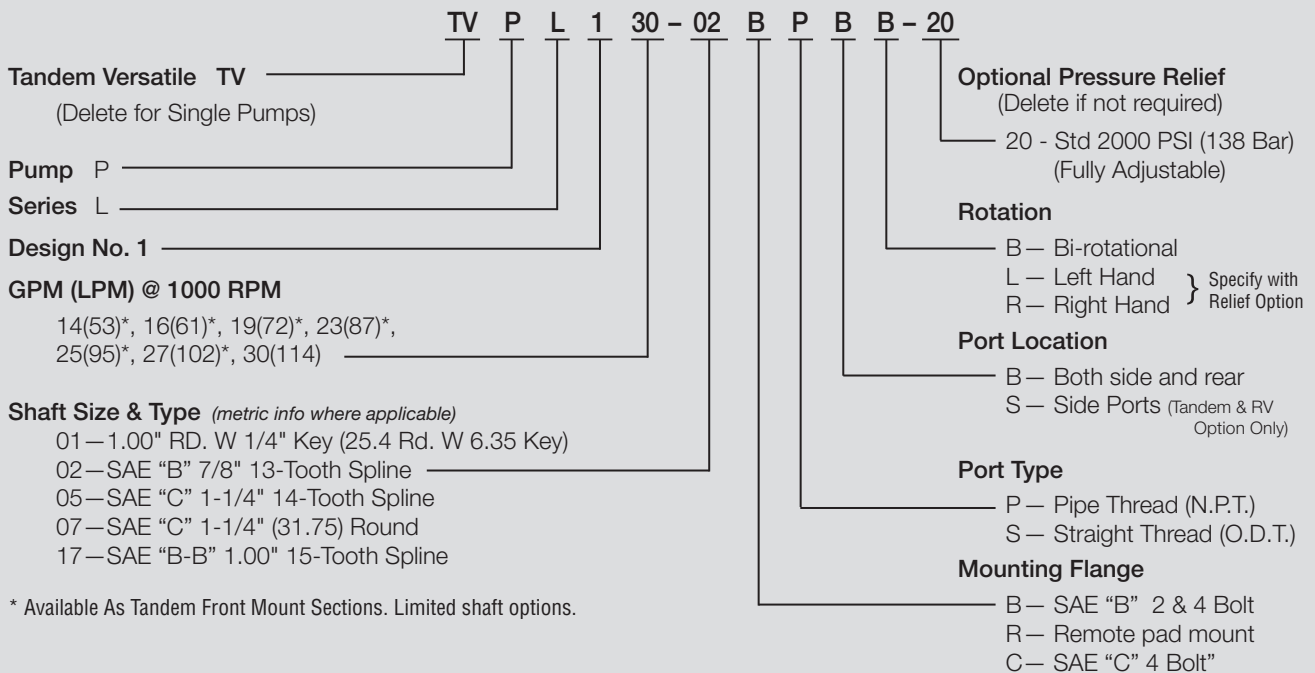
“R” REMOTE MOUNT IN(MM)

MODEL NO.	O.L. DIM A
14	7.38 (187.5)
16	7.62 (193.5)
19	7.88 (200.2)
23	8.12 (206.2)
25	8.38 (212.9)
27	8.62 (218.9)
30	8.88 (225.6)

OUTPUT



MODEL NUMBER CONSTRUCTION



* Available As Tandem Front Mount Sections. Limited shaft options.

OIL RECOMMENDATIONS

Muncie does not promote specific manufacturers' brands of oil. Recommendations below are guidelines; consult oil manufacturer for exact application needs.

Viscosity Range:

Viscosity Minimum: 50-60 SUS (7.5-10.5 cST)

Viscosity Optimum Continuous: 60-100 SUS (10.5-21.6 cST)

Viscosity Maximum @ Startup: 7500 SUS (1600 cST)

Viscosity Index: 90 Minimum

Aniline Point: 175 Minimum

Pour Point: 15°F (-10°C) Maximum

Foam Resistance: Recommended

Rust Resistance Inhibitors: Recommended

Corrosion Resistance: Recommended

Oxidation Stability: Recommended

Anti-Wear Additive: .06% Zinc Minimum*

Note: Cold weather operation requires special oil considerations. Viscosity should not exceed 7500 SUS (1600 cST) at lowest startup temperature. Continuous operation should range between 60-1000 SUS (10.5-216 cST) for all temperature ranges. Never use diesel fuel or kerosene to thin oil.

*Anti-Wear Additives may be recommended by some motor manufacturers. However, they are optional and typically not required for gear pump or gear motors.

