K SERIES
PUMP & MOTOR

BI-ROTATIONAL, FOUR PORT DESIGN

Muncie PK Series gear pumps come in a wide range of sizes to fit many truck mounted hydraulic applications requiring small to medium flow rates. The PK Series pumps feature bi-rotational, four port construction. All series can be either direct mounted to a power take-off, or remote mounted and shaft driven. The 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)
PK1-04*	0.98 (16)	3600	600	3000 (207)	1/2	5/8	1	1	1	26.5 (12.1)
PK1-06	1.47 (24)	3600	600	3000 (207)	3/4	3/4	1	1	1	27.8 (12.6)
PK1-08	1.97 (32)	3000	600	3000 (207)	1	1	1	1	1	29.0 (13.1)
PK1-11	2.46 (40)	3000	600	3000 (207)	1	1	1	1	1	30.3 (13.8)
PK1-13	2.96 (48)	2500	600	3000 (207)	1-1/4	1-1/4	1	1	1	31.6 (14.3)
PK1-15	3.45 (57)	2500	600	2500 (172)	1-1/4	1-1/4	1	1	1	33.0 (15.0)
PK1-17	3.94 (65)	2500	600	2500 (172)	1-1/4	1-1/4	1	1	1	34.1 (15.5)

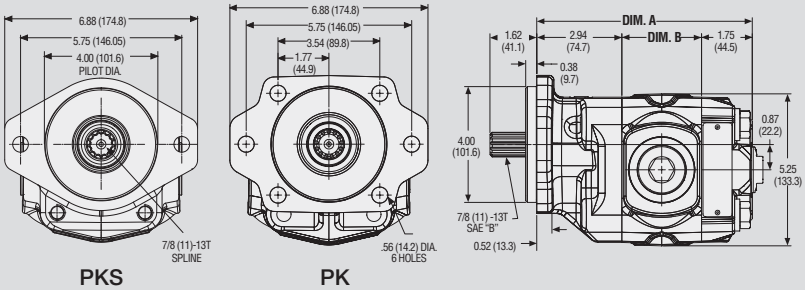
MAX INLET VACUUM - 5IN. HG. (.17 BAR)
MAX INLET BACK PRESSURE - 150 PSI (10 BAR)
***PK1-04 IS NOT RECOMMENDED TO BE USED AS A MOTOR.**

INSTALLATION DIMENSIONS

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

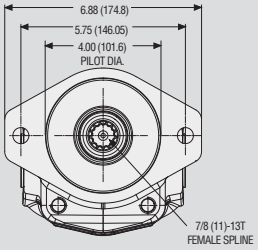
MODEL NO.	DIM A PK IN(MM)	DIM A PKS IN(MM)	DIM B IN (MM)
04	5.94 (150.9)	4.81 (122.2)	1.25 (31.8)
06	6.19 (157.2)	5.06 (128.5)	1.50 (38.1)
08	6.44 (163.6)	5.31 (134.9)	1.75 (44.5)
11	6.69 (169.9)	5.56 (141.2)	2.00 (50.8)
13	6.94 (176.3)	5.81 (147.6)	2.25 (57.2)
15	7.19 (182.6)	6.06 (153.9)	2.50 (63.5)
17	7.44 (189.0)	6.31 (160.3)	2.75 (69.9)

DIM C: PK 2.94 (74.7); PKS 1.81 (46.0)

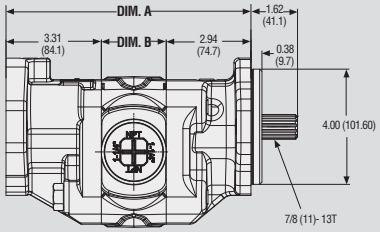


TANDEM VERSATILE (FRONT PUMP)
SAE "B" SHOWN

MODEL NO.	DIM A IN(MM)	DIM B IN(MM)
04	7.81 (198.4)	1.50 (38.1)
08	8.06 (204.7)	1.75 (44.5)
11	8.21 (208.5)	2.00 (50.8)
13	8.56 (217.4)	2.25 (57.2)



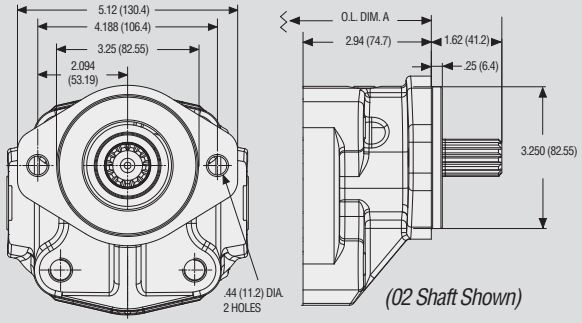
Rear Pump Flange
SAE "B" 2 Bolt

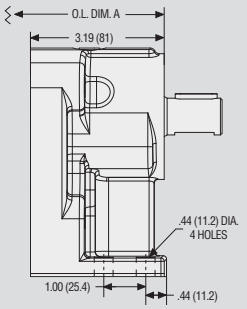


FRONT COVER OPTIONS

"A" DIRECT MOUNT (SAE "A")
IN(MM)

MODEL NO.	O.L. DIM A
04	5.94 (150.9)
06	6.19 (157.2)
08	6.44 (163.6)
11	6.69 (169.9)
13	6.94 (176.3)
15	7.19 (182.6)
17	7.44 (189.0)



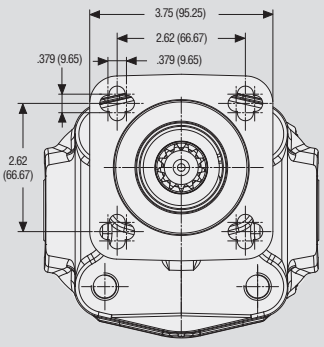


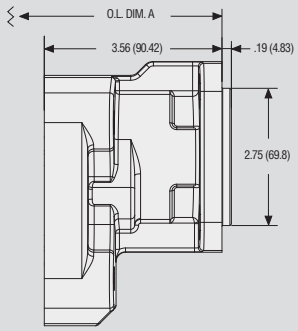
"R" REMOTE MOUNT
IN(MM)

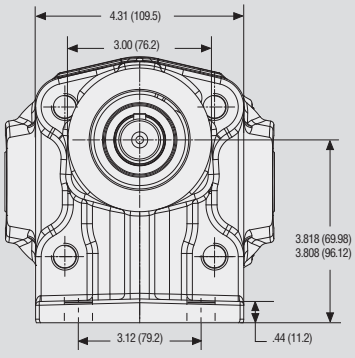
MODEL NO.	O.L. DIM A
04	6.19 (157.2)
06	6.44 (163.6)
08	6.69 (169.9)
11	6.94 (176.3)
13	7.19 (182.6)
15	7.44 (189.0)
17	7.69 (195.3)

"G" DIRECT MOUNT
IN(MM)

MODEL NO.	O.L. DIM A
04	6.56 (166.6)
06	6.81 (172.9)
08	7.06 (179.3)
11	7.31 (185.6)
13	7.56 (192.0)
15	7.81 (198.4)
17	8.06 (201.7)

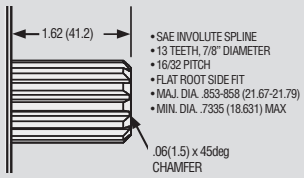




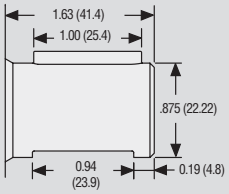


SHAFT OPTIONS

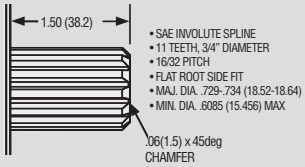
SHAFT TYPE: 02 K
7/8" - 13T (SAE "B") • STL ≤ 16,550



SHAFT TYPE: 09 K
7/8" RND. - 1/4" Key • STL ≤ 11,200



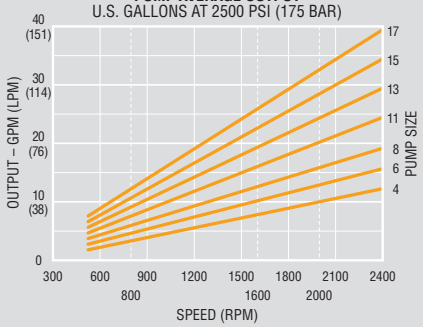
SHAFT TYPE: 16 K
3/4" - 11T • STL ≤ 10,114



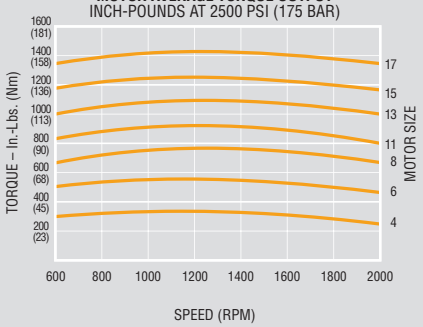
* "R" Mount - .23(5.8) shorter

OUTPUT

PUMP AVERAGE OUTPUT
U.S. GALLONS AT 2500 PSI (175 BAR)



MOTOR AVERAGE TORQUE OUTPUT
INCH-POUNDS AT 2500 PSI (175 BAR)



MODEL NUMBER CONSTRUCTION

TV P K 1 08 – 02 B P B B – 30

Tandem Versatile TV
(Delete for Single Pumps)
(Not Available on PKS)

Pump P

Series K
KS – Short Front Cover (SAE "B" 2-Bolt)**

Design No. 1

GPM (LPM) @ 1000 RPM
04(15), 06(23)*, 08(30)*,
11(42)*, 13(49)*, 15(57), 17(64)

Shaft Size & Type *(metric info where applicable)*
02—SAE "B" 7/8" 13-Tooth Spline
09—7/8" Rd. w/ 1/4" Key (22.22 Rd. w/ 6.35 Key)
16—3/4" 11-Tooth Spline
17 - SAE "B-B" 1.00" 15-Tooth Spline
(17 GPM Only)

Mounting Flange
A— SAE "A" 2 Bolt
B— SAE "B" 2 & 4 Bolt
PKS Short Cover SAE "B"
2-Bolt Only
R— Remote pad mount
G— Cloverleaf Dana "R" Mount
Use Shaft 02
(Special Order Only)
K— SAE "B" 4 Bolt"

Port Type
P— Pipe Thread (N.P.T.)
S— Straight Thread (O.D.T.)

Port Location
B— Both side and rear
S— Side Ports (Tandem & RV Option Only)

Rotation
B— Bi-rotational
L— Left Hand } Specify with Relief Option
R— Right Hand

Optional Pressure Relief
(Delete if not required)
30—Std 3000 PSI (207 BAR)
(Fully Adjustable)

* Available As Tandem Front Mount Sections. Limited shaft options.
** Low pressure shaft seal with no retainer.

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 recommmeded by some motor manufacturers. However, they are optional and typically not required for gear pump or gear motors.

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MP15-12 (Rev. 12-14)