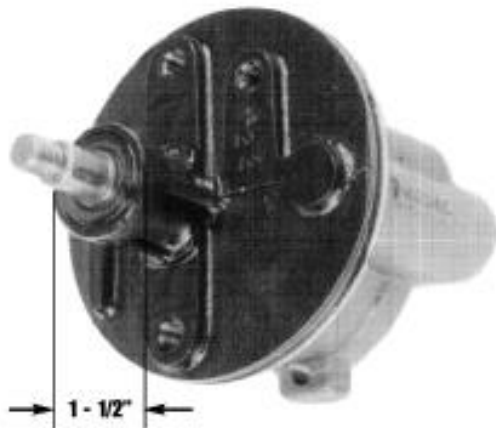
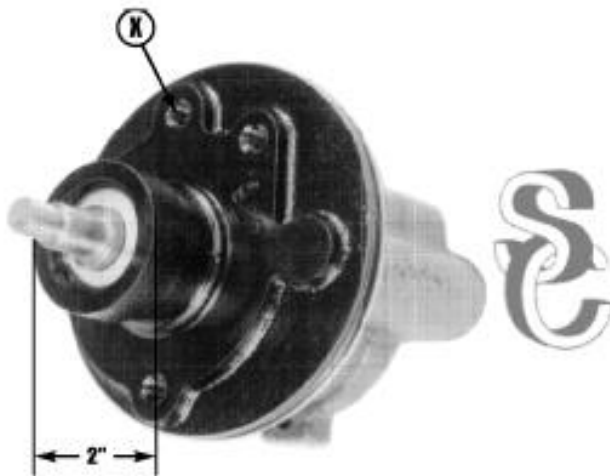


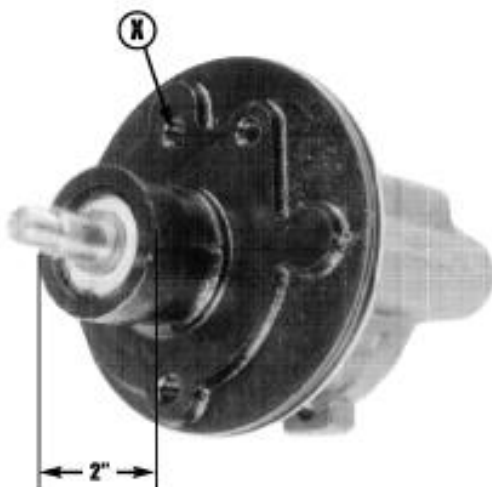
Medium and heavy duty  
**SAGINAW PUMPS**



**3300X**  
**CHEV / GMC**  
DIAMETER OF BUSHING  
HOUSING 1-1/2"

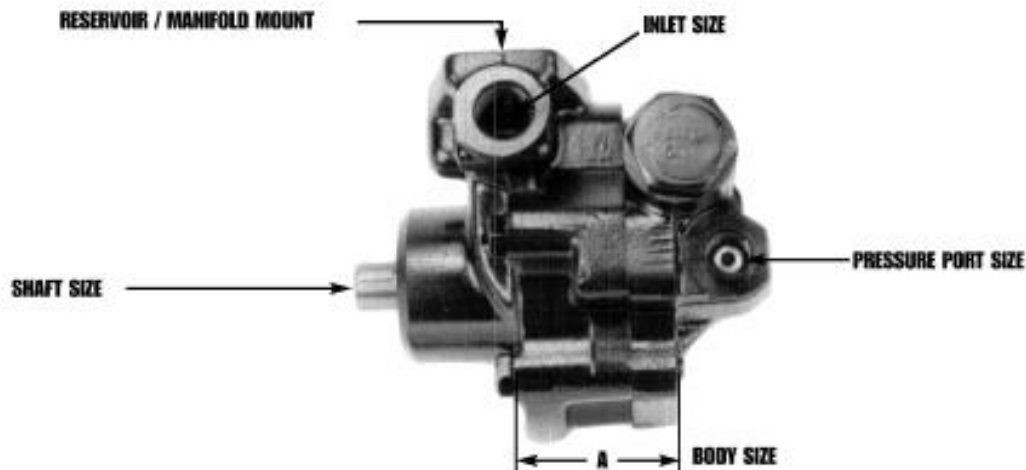


**3305X**  
**CHEV / GMC**  
DIAMETER OF BEARING  
HOUSING 2"  
MOUNTING HOLE 1/2" FROM  
OUTER DIAMETER  
( SEE X )



**3310X**  
**CHEV / GMC**  
DIAMETER OF BEARING  
HOUSING 2"  
MOUNTING HOLE 1" FROM  
OUTER DIAMETER  
( SEE X )

Medium and heavy duty  
**EATON U MODEL PUMPS**



**INFORMATION NEEDED**

SHAFT SIZE  
 PRESSURE PORT SIZE  
 INLET SIZE  
 BODY SIZE (MEASUREMENT A)

- 4. SHAFT SIZE**  
 a. DOUBLE PULLEY 7/8"  
 b. SINGLE PULLEY 9/16"
- 3. PRESSURE PORT**  
 a. 5/8" INVERTED FLARE  
 b. 3/4" - 16 O-RING
- 2. INLET SIZE**  
 a. NO INLET  
 b. 5/8" - 18  
 c. 3/4" - 16 O RING  
 d. 1/4" NPT
- 1. BODY SIZE (MEASUREMENT A)**  
 a. SMALL ROTOR 1-7/8"  
 b. LARGE ROTOR 2-1/8"

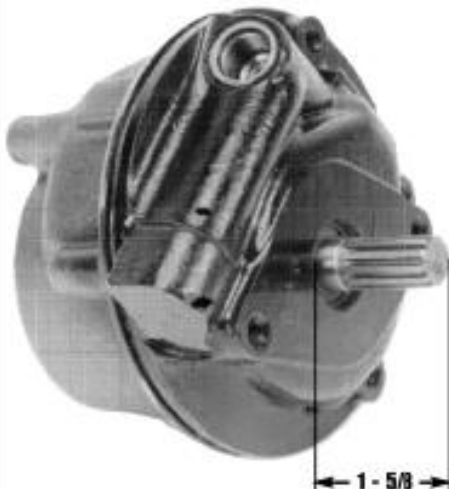
	4.	3.	2.	1.
<b>3315X</b>	= single pulley	5/8 inverted flare	no inlet	small rotor
<b>3316X</b>	= single pulley	5/8 inverted flare	no inlet	large rotor
<b>3320X</b>	= double pulley	5/8 inverted flare	no inlet	small rotor
<b>3321X</b>	= double pulley	5/8 inverted flare	no inlet	large rotor
<b>3322X</b>	= double pulley	5/8 inverted flare	5/8 inlet	small rotor
<b>3325X</b>	= single pulley	5/8 inverted flare	5/8 inlet	small rotor
<b>3326X</b>	= single pulley	5/8 inverted flare	5/8 inlet	small rotor
<b>3330X</b>	= double pulley	5/8 inverted flare	3/4inlet	small rotor
<b>3331X</b>	= double pulley	5/8 inverted flare	3/4inlet	large rotor
<b>3334X</b>	= single pulley	3/4-16 o-ring	no inlet	small rotor
<b>3335X</b>	= single pulley	3/4-16 o-ring	no inlet	large rotor
<b>3336X</b>	= double pulley	3/4-16 o-ring	no inlet	large rotor

Medium and heavy duty  
**EATON B MODEL PUMPS**



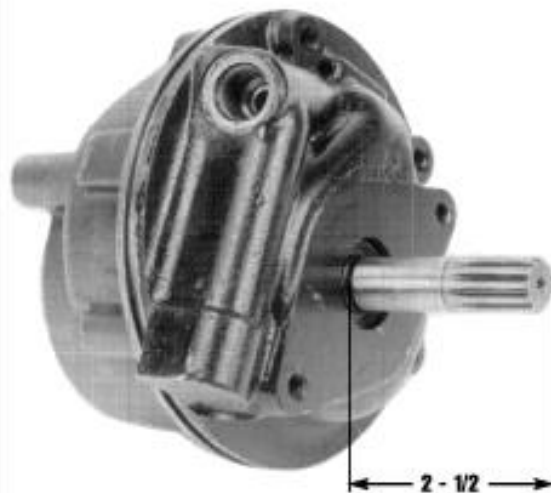
**3340X / 3345X**  
**FORD / NAVISTAR / VOLVO**

3340X FRONT AXLE WEIGHT TO 14,000  
3345X FRONT AXLE WEIGHT OVER 14,000  
REAR MOUNTED RESERVIOR  
PULLEY DRIVEN / SHAFT LENGTH 1 INCH



**3350X / 3355X**  
**FORD / MACK**

3350X FRONT AXLE WEIGHT TO 14,000  
3355X FRONT AXLE WEIGHT OVER 14,000  
REAR MOUNTED RESERVIOR  
SPLINED SHAFT / SHAFT LENGTH 1 5/8 INCH

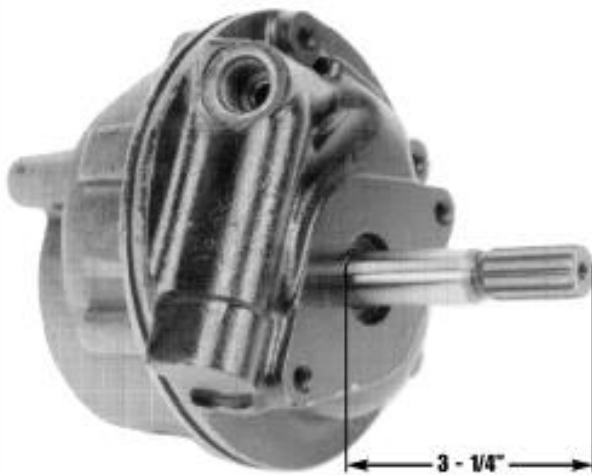


**3360X / 3360RX / 3365X / 3365RX**  
**FORD / NAVISTAR**

3360X / 3360RX FRONT AXLE WEIGHT TO 14,000  
3365X / 3365RX FRONT AXLE WEIGHT OVER 14,000  
REAR MOUNTED RESERVIOR  
SPLINED SHAFT  
SHAFT LENGTH 2 1/2 INCH  
R = COUNTERCLOCKWISE ROTATION

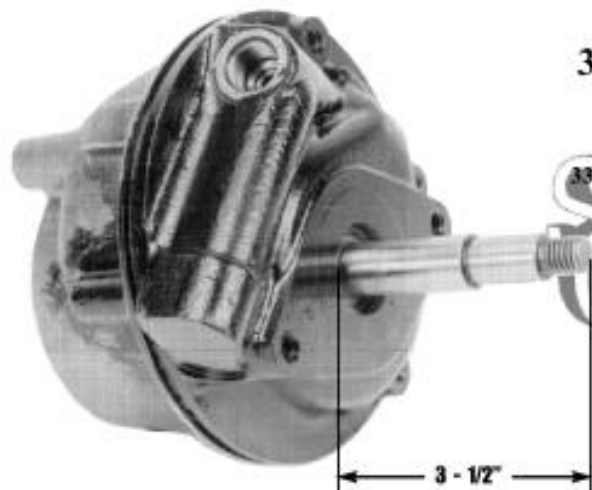
(PUMPS MOUNTED ON CATERPILLAR ENGINES  
ARE USUALLY COUNTERCLOCKWISE ROTATION)

Medium and heavy duty  
**EATON B MODEL PUMPS**



**3370X / 3375X**  
**FORD / NAVISTAR**  
**WHITE / AUTOCAR**

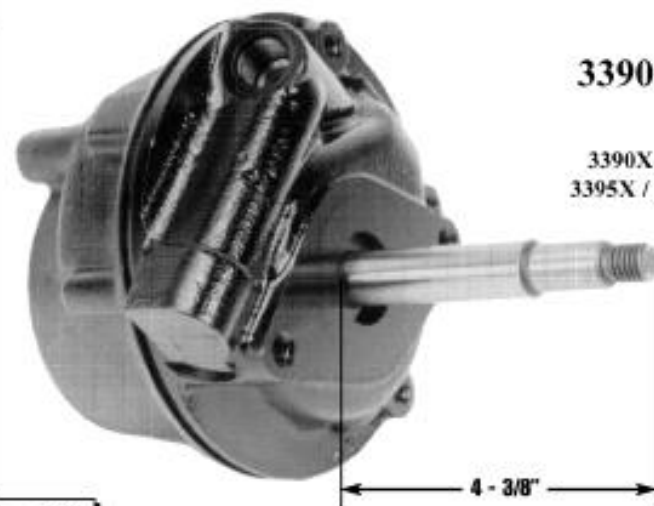
3370X FRONT AXLE WEIGHT TO 14,000  
3375X FRONT AXLE WEIGHT OVER 14,000  
REAR MOUNTED RESERVIOR  
SPLINED SHAFT / SHAFT LENGTH 3 1/4 INCHES



**3380X / 3380RX / 3385X / 3385RX**  
**FORD / NAVISTAR**

3380X / 3380RX FRONT AXLE WEIGHT TO 14,000  
3385X / 3385RX FRONT AXLE WEIGHT OVER 14,000  
REAR MOUNTED RESERVIOR  
KEYED / NUT RETAINED SHAFT  
SHAFT LENGTH 3 1/2 INCHES  
R - COUNTERCLOCKWISE ROTATION

(PUMPS MOUNTED ON THE DRIVERS SIDE  
OF DETROIT ENGINES ARE USUALLY  
COUNTERCLOCKWISE ROTATION)

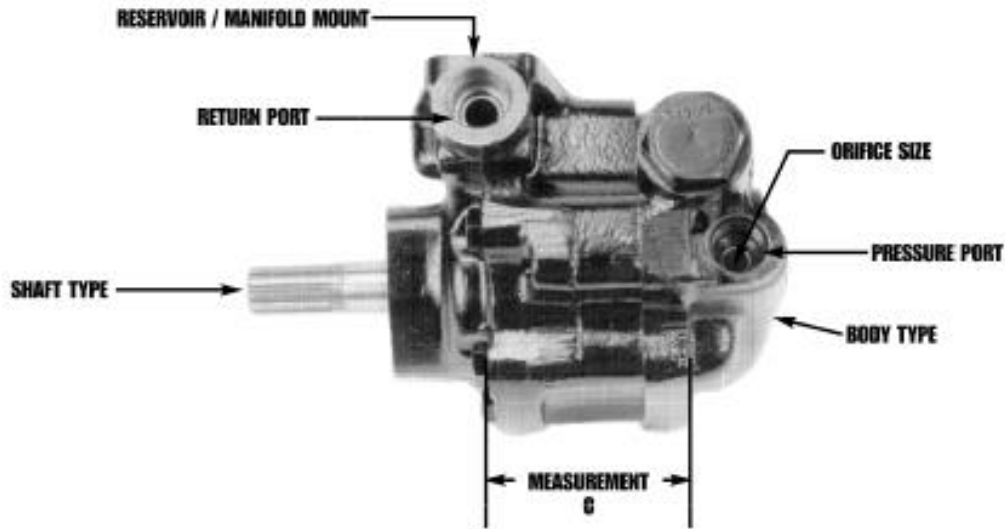


**3390X / 3390RX / 3395X / 3395RX**  
**FORD / NAVISTAR**

3390X / 3390RX FRONT AXLE WEIGHT TO 14,000  
3395X / 3395RX FRONT AXLE WEIGHT OVER 14,000  
REAR MOUNTED RESERVIOR  
KEYED / NUT RETAINED SHAFT  
SHAFT LENGTH 4 3/8 INCHES  
R - COUNTERCLOCKWISE ROTATION

(PUMPS MOUNTED ON THE DRIVERS SIDE  
OF DETROIT ENGINES ARE USUALLY  
COUNTERCLOCKWISE ROTATION)

Medium and heavy duty  
**EATON BB MODEL PUMPS**



EATON HOBOURN BB  
 CODE BREAKDOWN

**BB - L E 3 U A B X**

EATON MODEL

**BODY TYPE**

R  
 L  
 G - SPECIAL G/M BODY

**ROTATION**

CW  
 CCW  
 CW

**ORIFICE SIZE**

1 - 9/64 = 3.5 GPM  
 2 - 5/32 = 4.5 GPM  
 3 - 3/16 = 5.5 GPM  
 4 - 13/64 = 6.5 GPM  
 5 - 7/32 = 7.5 GPM

**RETURN PORT**

OMITTED = NO RETURN PORT  
 B = RETURN PORT

**PRESSURE PORT**

OMITTED = STANDARD  
 3/4-16 PORT  
 A = TUBE O-RING PORT

**SHAFT TYPE**

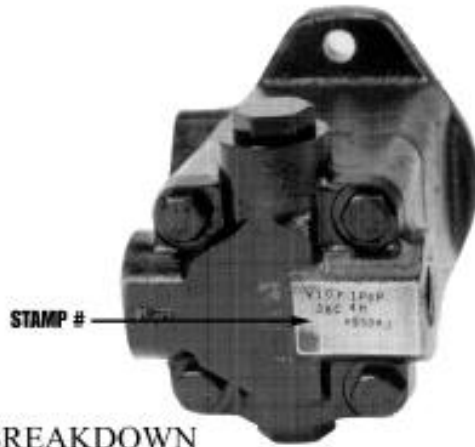
A - BOLT AND KEY, PULLEY DRIVEN, SMALL ROTOR  
 B - BOLT AND KEY, PULLEY DRIVEN, LARGE ROTOR  
 D - NUT AND KEY, DETROIT DIESEL, LARGE ROTOR  
 E - 11 TOOTH SPLINE, CUMMINS, CAT, LARGE ROTOR  
 F - 11 TOOTH SPLINE, CUMMINS, CAT, SMALL ROTOR  
 G - BOLT AND KEY, DETROIT DIESEL, SMALL ROTOR  
 H - NUT AND KEY, DETROIT DIESEL, SMALL ROTOR  
 J - BOLT AND KEY, FORD DIESEL, SMALL ROTOR  
 K - BOLT AND KEY, FORD DIESEL, LARGE ROTOR  
 L - BOLT AND KEY, DETROIT DIESEL, LARGE ROTOR

*SMALL ROTOR - 2-1/4 INCH, MEASUREMENT C  
 LARGE ROTOR - 2-3/4 INCH, MEASUREMENT C*

**PRESSURE SETTINGS PSI**

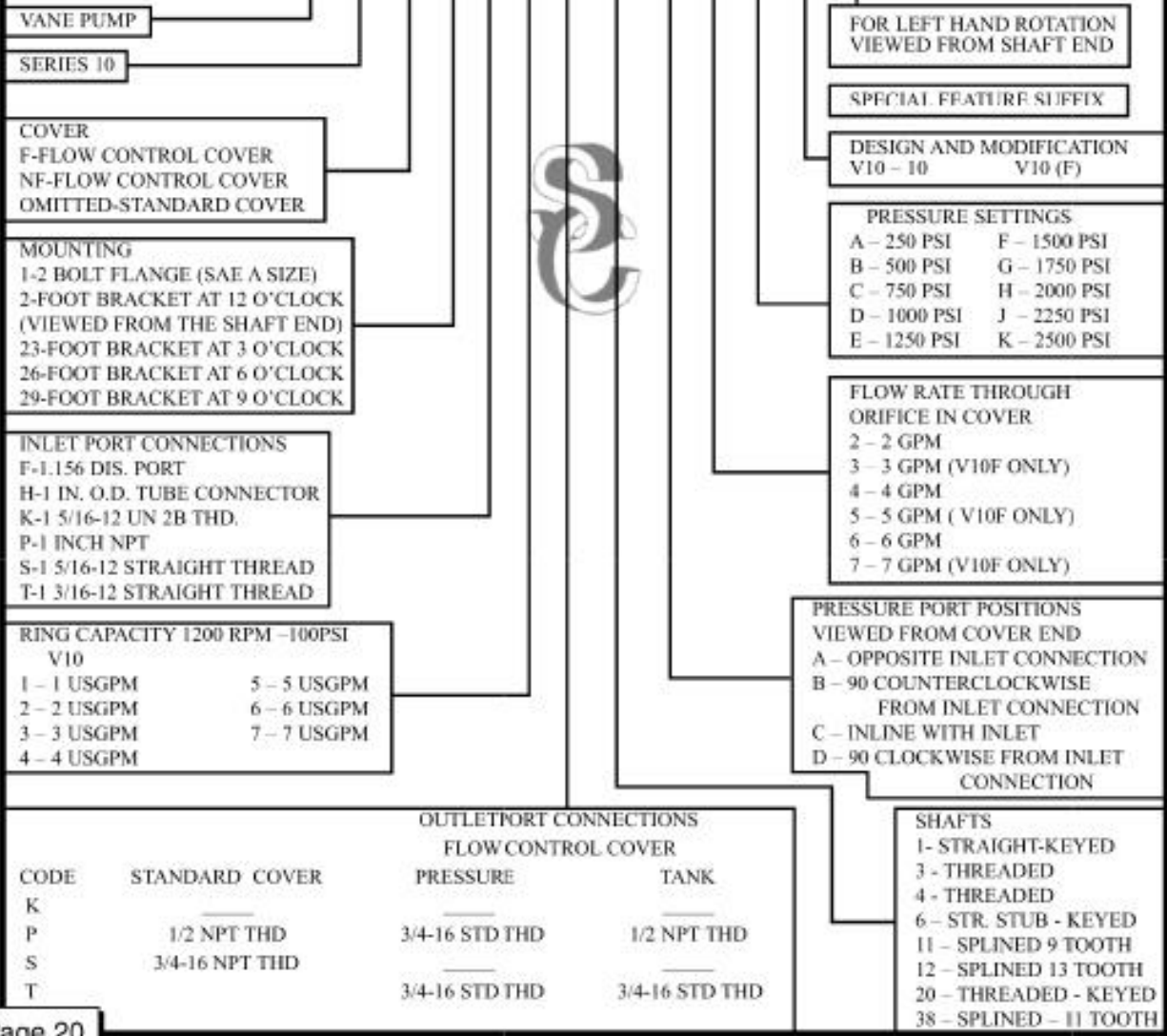
A - 750 PSI	N - 1800 PSI
B - 900 PSI	P - 1850 PSI
C - 1100 PSI	Q - 1900 PSI
D - 1200 PSI	R - 1950 PSI
E - 1300 PSI	S - 2000 PSI
F - 1300 PSI	T - 2050 PSI
G - 1400 PSI	U - 2100 PSI
H - 1500 PSI	V - 2150 PSI
J - 1600 PSI	W - 2200 PSI
K - 1650 PSI	X - 2300 PSI
L - 1700 PSI	Y - 2350 PSI
M - 1750 PSI	Z - 2400 PSI

Medium and heavy duty  
**VICKERS V10 STEERING PUMPS**

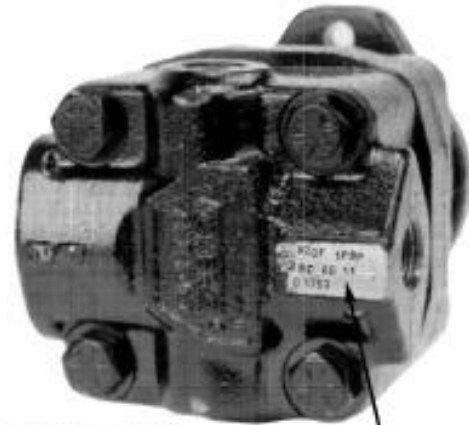
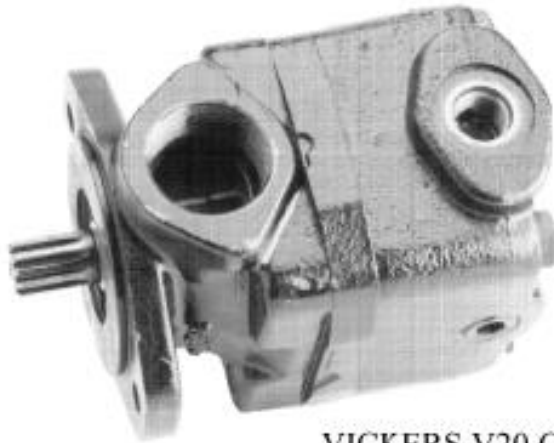


**VICKERS V10 CODE BREAKDOWN**

**V 10 F 1 P 6 P 38 C 6 G 20 L**



Medium and heavy duty  
**VICKERS V20 STEERING PUMPS**



STAMP #

VICKERS V20 CODE BREAKDOWN

**V 20 F 1 P 9 P 38 C 6 H 11 L**

VANE PUMP

SERIES 20

COVER

F- FLOW CONTROL COVER  
 NF-FLOW CONTROL COVER  
 OMITTED-STANDARD COVER  
 P-PRIORITY COVER

MOUNTING

1-2 BOLT FLANGE (SAE A SIZE)  
 2-FOOT BRACKET AT 12 O'CLOCK  
 (VIEWED FROM THE SHAFT END)  
 23-FOOT BRACKET AT 3 O'CLOCK  
 26-FOOT BRACKET AT 6 O'CLOCK  
 29-FOOT BRACKET AT 9 O'CLOCK

INLET PORT CONNECTIONS

E-1.5 DIA. - 2 BOLT FLANGE  
 F-1.156 DIA. - 2 BOLT FLANGE  
 P-1.25 N.P.T.F.  
 R-1 INCH NPTF  
 S-1.625 - 12 UN2B THREAD  
 T-1.875 - 12 STRAIGHT THREAD

RING CAPACITY 1200 RPM -100PSI  
 V20

6 - 6 USGPM	11 - 11 USGPM
7 - 7 USGPM	12 - 12 USGPM
8 - 8 USGPM	13 - 13 USGPM
9 - 9 USGPM	

FOR LEFT HAND ROTATION  
 VIEWED FROM SHAFT END

SPECIAL FEATURE SUFFIX

DESIGN AND MODIFICATION  
 V20, V20F - 11 DESIGN  
 V20P - 12 DESIGN  
 V20NF - 20 DESIGN

PRESSURE SETTINGS

A - 250 PSI	F - 1500 PSI
B - 500 PSI	G - 1750 PSI
C - 750 PSI	H - 2000 PSI
D - 1000 PSI	J - 2250 PSI
E - 1250 PSI	K - 2500 PSI

FLOW RATE THROUGH  
 ORIFICE IN COVER

2 - 2 GPM  
 3 - 3 GPM  
 4 - 4 GPM  
 6 - 6 GPM  
 7 - 7 GPM  
 8 - 8 GPM

PRESSURE PORT POSITIONS  
 VIEWED FROM COVER END

A - OPPOSITE INLET CONNECTION  
 B - 90 COUNTERCLOCKWISE  
 FROM INLET CONNECTION  
 C - INLINE WITH INLET  
 D - 90 CLOCKWISE FROM INLET  
 CONNECTION

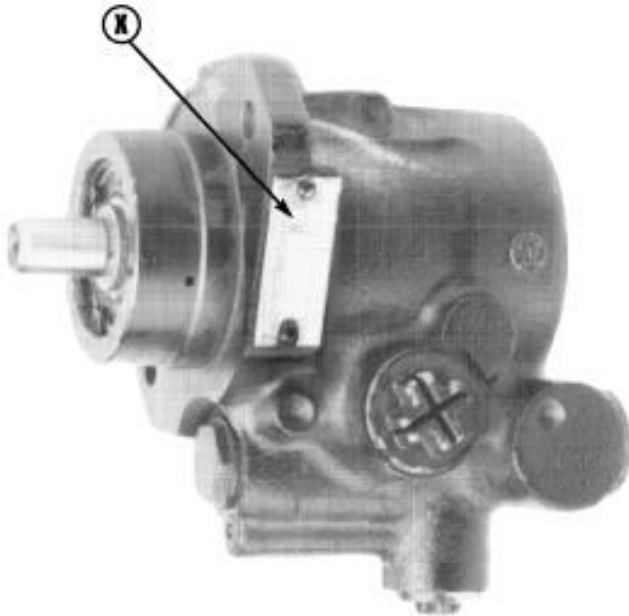


CODE	STANDARD COVER	FLOW CONTROL COVER PRESSURE	COVER TANK	OUTLET PORT CONNECTIONS		
				PRIORITY	VALVE COVER	SECONDARY TANK
F	.687 DIA.					
P	.750 NPT THD	.750-16 STD THD	.500 NPT THD			
S	1.062 -12	.750-16 STD THD	1.062-12 STD THD			
T		.750-16 STD THD	.750-16 STD THD	.750-16 STD THD	.875-14 STD THD	.750-16 STD THD

SHAFTS

1- STRAIGHT-KEYED  
 3 - THREADED  
 4 - THREADED  
 6 - STR. STUB - KEYED  
 11 - SPLINED 9 TOOTH  
 12 - SPLINED 13 TOOTH  
 20 - THREADED - KEYED  
 38 - SPLINED - 11 TOOTH

Medium and heavy duty  
**ZF STEERING PUMPS**



**FREIGHTLINER/FORD  
MACK / NAVISTAR  
PACCAR / VOLVO**

INFORMATION NEEDED  
ZF STAMPED NUMBERS

(see "X" or tag)

EXAMPLES:

**7673955321**

**7674955272**

**7674955343**

**7677955179**