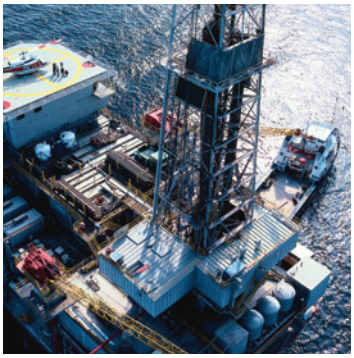
aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Denison GOLD CUP® Product Catalog

For Open & Closed Circuits

HY28-2667-01/GC/NA,EU
Effective: August 2020

Parker

ENGINEERING YOUR SUCCESS.

The Hydraulic Pump Division of Parker Hannifin was formed in 2004 when our significant piston pump business was expanded through the acquisition of Denison Hydraulics. The addition of Denison allowed us to marry the wealth of knowledge that both companies have in the design, manufacture, and application of piston products in both open circuit and closed circuit system applications. Since before WWII, Denison products have been chosen for Military test stand applications and for shipboard hydraulic applications being recognized as technology leaders.

The heavy duty GOLD CUP® series of pumps and motors in this catalog represent a broadening of our product offering with hydrostatic transmission applications in marine, drilling, and shredding applications, among others. The tried and true design of the GOLD CUP® product line incorporates features such as integral servo and replenishing pump, hot oil shuttle, and a unique servo control system; all of which combine to provide a rugged self contained package which can withstand the harshest of conditions and continue to perform with trouble free long life.

The division is a leading worldwide manufacturer of hydraulic components and systems for earthmoving and construction vehicles; for mining equipment; for pulp and paper, chemical and other processing equipment; for ships and ordnance equipment; and for such in-plant machines as machine tools, plastic molding, die casters, and stamping presses.

WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is

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Parker Hannifin Corporation
Hydraulic Pump and Power Systems Division
United States

Series		Terms	P6	P7	P8	P11	P14	P24	P30
Displacement	*Max. displacement*	in^3/rev.	6.00	7.25	8.00	11.00	14.00	24.60	30.60
		cm^3/rev.	98,3	118,8	131,1	180,3	229,5	403,2	501,5
Pressure	*Continuous*	psi	5000	5000	5000	5000	5000	5000[1)]	5000[1)]
		bar	350	350	350	350	350	350[1)]	350[1)]
	Intermittent	psi	6000[7)]	6000[7)]	5000	6000[7)]	6000[7)]	5500[1)7)]	5500[1)7)]
		bar	420[7)]	420[7)]	350	420[7)]	420[7)]	370[1)7)]	370[1)7)]
Speed (*Pump)*	*max. @ full stroke*	rpm	3000	3000	2700	2400	2400	2100[2)]	1800
(Motor)	*max. @ full stroke*	rpm	3000	3000	2700	2400	2400	2100[2)]	1800
(Motor)	*max. @ 50% stroke*	rpm	3600	3600	3000	2800	2800	2100[2)]	1800
Mounting	*Flange -2 bolt*	SAE	127-2 (C)	127-2 (C)	127-2 (C)	-	-	-	-
Flange -4 bolt (opt. on 6,7 & 8)		SAE	152-4 (D)	152-4 (D)	152-4 (D)	165-4 (E)	165-4 (E)	177-4 (F)	177-4 (F)
	Shaft - keyed	SAE	32-1 (C)	32-1 (C)	32-1 (C)	44-1 (E)	44-1 (E)	50-1 (F)	50-1 (F)
	keyed	SAE	44-1 (D)	44-1 (D)	44-1 (D)	-	-	-	-
	Shaft - splined	SAE	32-4 (C)	32-4 (C)	32-4 (C)	44-4 (E)	44-4 (E)	50-4(F)	50-4 (F)
	splined	SAE	44-4 (D)	44-4 (D)	44-4 (D)	-	-	-	-
Weight (*Pump) less controls*		lbs	175-300	175-300	175-300	325-530	325-530	750-835	750-835
	Mass	kg.	80-135	80-135	80-135	145-240	145-240	340-375	340-375
Weight *(Motor Fixed)*		lbs	110	110	110	250	250	510	600
	Mass	kg.	50	50	50	110	110	230	270
Weight *(Motor Variable) less controls*		lbs	110	110	110	300	300	650	670
	Mass	kg.	50	50	50	135	135	290	300
Rotating inertia		$lbs\text{-}in^2$	92	92	92	290	290	821	977
		$kg.m^2$	0,027	0,027	0,027	0,085	0,085	0,240	0,286
Torque *(Motor) theo. max.*	*per 100 psi*	lbs-in	95.5	115.4	127	175	222	392	487
	per 100 bar	Nm	157	189	208	287	362	623	797
	at 5000 psi	lbs-in	4774	5769	6366	8750	11100	19576	24351
	at 350 bar	Nm	539,5	651,9	717	990	1250	2158	2752
Power *(Motor) theo. max.at 5000 psi, 350 bar*									
	per 100 rpm	hp	7.6	9.2	10	13.8	17.6	31.1	38.6
		kW	5,7	6,8	7,5	10,3	13,1	23,1	28,8
	at 2000 rpm	hp	151.5	183.1	201,5	277.8	353.5	621.3	695
		kW	113,0	136,6	152	207,0	263,7	463,5	518,2
Torque *(Motor) efficiency*	*- approx. stalled*	% theo.	81	81	81	81	81	81	81
	running	% theo.	93	93	93	93	93	93	93
Case pressure:	*max. allowable continuous*	psi	75	75	75	75	75	75	75
		bar	5,2	5,2	5,2	5,2	5,2	5,2	5,2
	intermittent	psi	125	125	125	125	125	125	125
		bar	8,6	8,6	8,6	8,6	8,6	8,6	8,6
(Not to exceed 25 psi,1,7 bar above inlet in open circuit units)									
Flow *(Pump) theo.at max.displ.@1500 rpm*		gpm	39	47	52	71	91	160	199
		lpm	148	178	197	269	344	606	753
	@1800 rpm	gpm	47	57	62	86	109	192	238
		lpm	178	216	235	326	413	727	901
Displacement	*(Internal aux. pump)*		**P6,7,8P,S,V**	**P11,14P,S**	**P11,14V**	**P24P**	**P24S**[3)]	**P30P**	**P30S**[3)]
		in^3/rev.	1.07	(2) 1.07[4)]	1.07[5)]	2.81[6)]	2.81[6)]	2.81[6)]	2.81[6)]
		cm^3/rev.	17,5	(2) 17,5	17,5	46,1	46,1	46,1	46,1
Flow *(Internal aux. pump)*	*@1500 rpm*	gpm	6.9	(2) 6.9	6.9	18.2	6.5	18.2	6.5
		lpm	26,1	(2) 26,1	26,1	68,9	24,6	69,1	24,6
	@1800 rpm	gpm	8.3	(2) 8.3	8.3	21.9	7.8	21.9	7.8
		lpm	31,4	(2) 31,4	31,4	82,9	29,5	82,9	29,5

1) Max. pressure 5000 psi, (350 bar) for M24 and 30 series variable motors. Higher servo pressure may be required - consult Parker.

2) On HF-1 fluids, 1800 RPM Max. on HF-0 fluids.

3) Internal cartridge provides servo flow and must be supercharged from external replenishing flow, from external auxiliary pump.

4) One servo cartridge and one replenishing cartridge.

5) Servo cartridge only.

6) Standard, other sizes available, see ordering code.

7) 10% of operation time, not exceeding 6 successive seconds.

Replenishing pressure *(Internal aux. pump)*		**P6,7,8,11,14,24P**	**P6,7,8,11,14,24S**	**P30P**	**P30S**
Replenish pressure minus case pressure	psi	180-220	*180-220	180-220	*180-220
	bar	12,4-15,2	12,4-15,2	12,4-15,2	12,4-15,2
Servo pressure *(Internal aux. pump)*	psi	308-420	308-420	308-420	308-420
Servo pressure minus case pressure	bar	21,2-29,0	21,2-29,0	21,2-29,0	21,2-29,0
at 0 psi, 0 bar discharge pressure					
Servo pressure *(Internal aux. pump)* *(Above repl.)*	psi	500-650	500-650	500-650	500-650
for HI-IQ control units. Servo pressure minus	bar	34,5-44,8	34,5-44,8	34,5-44,8	34,5-44,8
case pressure at 5000 psi, 350 bar discharge pressure - at system pressure range 0 to 5000 psi, 350 bar.					

*Note: Nominal setting, may be increased if required.

Series		**Terms**	**P6**	**P7**	**P8**	**P11**	**P14**	**P24**	**P30**
Controls									
Compensator response	off-stroke	sec.	0.05	0.05	0.05	0.07	0.07	0.10	0.10
(per SAE J497 @ **5000 psi**, 350 bar)	on-stroke	sec.	0.9	0.9	0.9	1.5	1.5	1.8	1.8
Compensator adjustment		**psi/turn**	**2000**	**2000**	**2000**	**2000**	**2000**	**2000**	**2000**
		bar/turn	138	138	138	138	138	138	138
Torque to turn rotary servo shaft		**in.-lbs**	**20**	**20**	**20**	**20**	**20**	**20**	**20**
		Nm	2,3	2,3	2,3	2,3	2,3	2,3	2,3

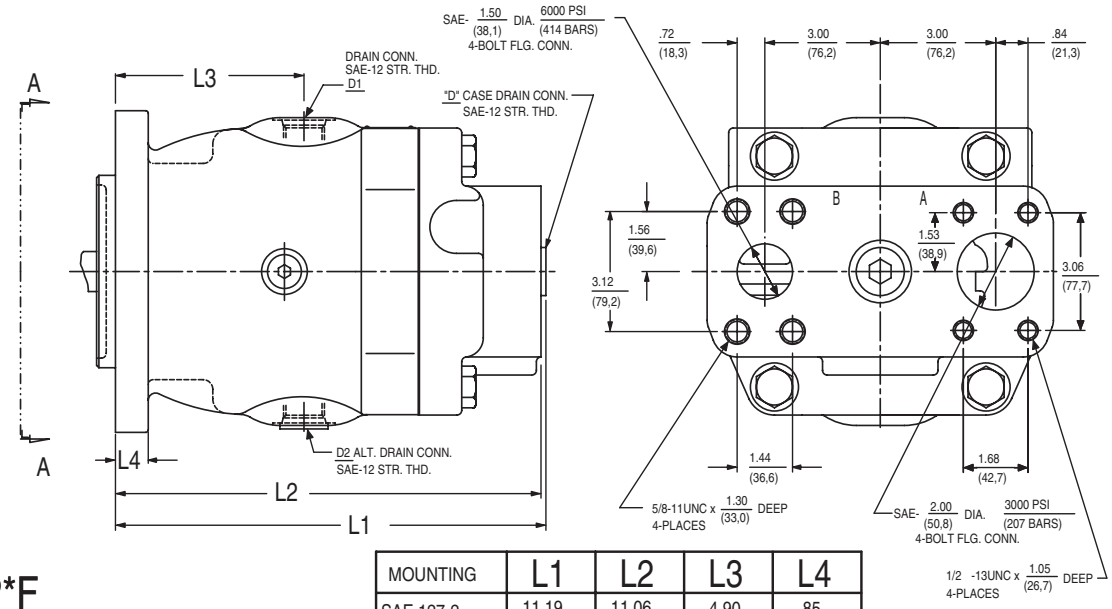
The maximum inlet at the auxiliary pump inlet is 200 psi. (13,8 bar)

Minimum compensating pressure will always be 100-200 psi. (6,9-13,8 bar) over servo pressure.

Any inlet pressures above atmospheric will increase noise levels and decrease efficiencies noted in this literature. Exact measurements depend on each application and operating conditions. Please consult your nearest Parker Office for further details.

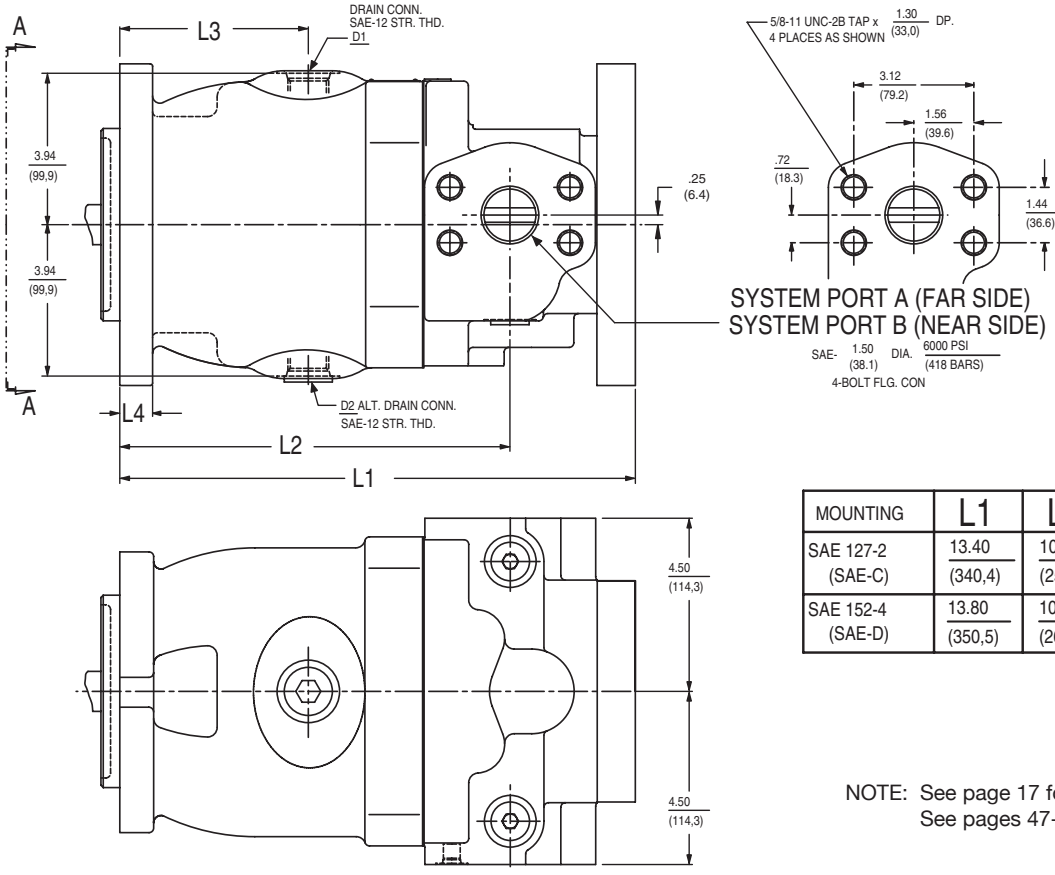
*Standard factory compensating pressure is 1,000 psi. (69,0 bar).

P*F



MOUNTING	L1	L2	L3	L4
SAE 127-2 (SAE-C)	11.19 (284,2)	11.06 (280,9)	4.90 (124,5)	.85 (21,6)
SAE 152-4 (SAE-D)	11.59 (294,3)	11.46 (291,1)	5.30 (134,6)	.89 (22,6)

P*M

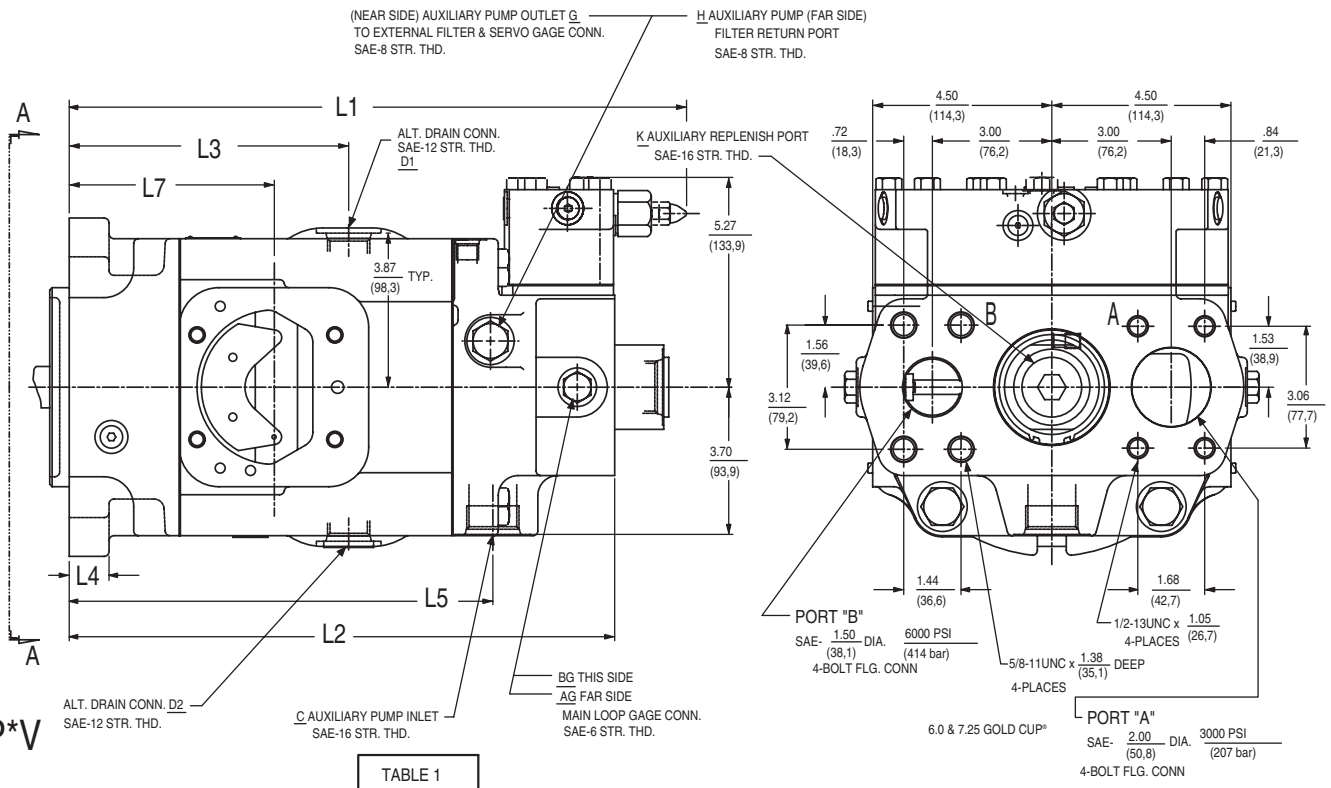


MOUNTING	L1	L2	L3	L4
SAE 127-2 (SAE-C)	13.40 (340,4)	10.14 (257,6)	4.90 (124,5)	.85 (21,6)
SAE 152-4 (SAE-D)	13.80 (350,5)	10.54 (267,7)	5.30 (134,6)	.89 (22,6)

NOTE: See page 17 for shaft information.
See pages 47-56 for rear drive information.

P6-P7-P8V, D, P Dimensions (Less Controls)

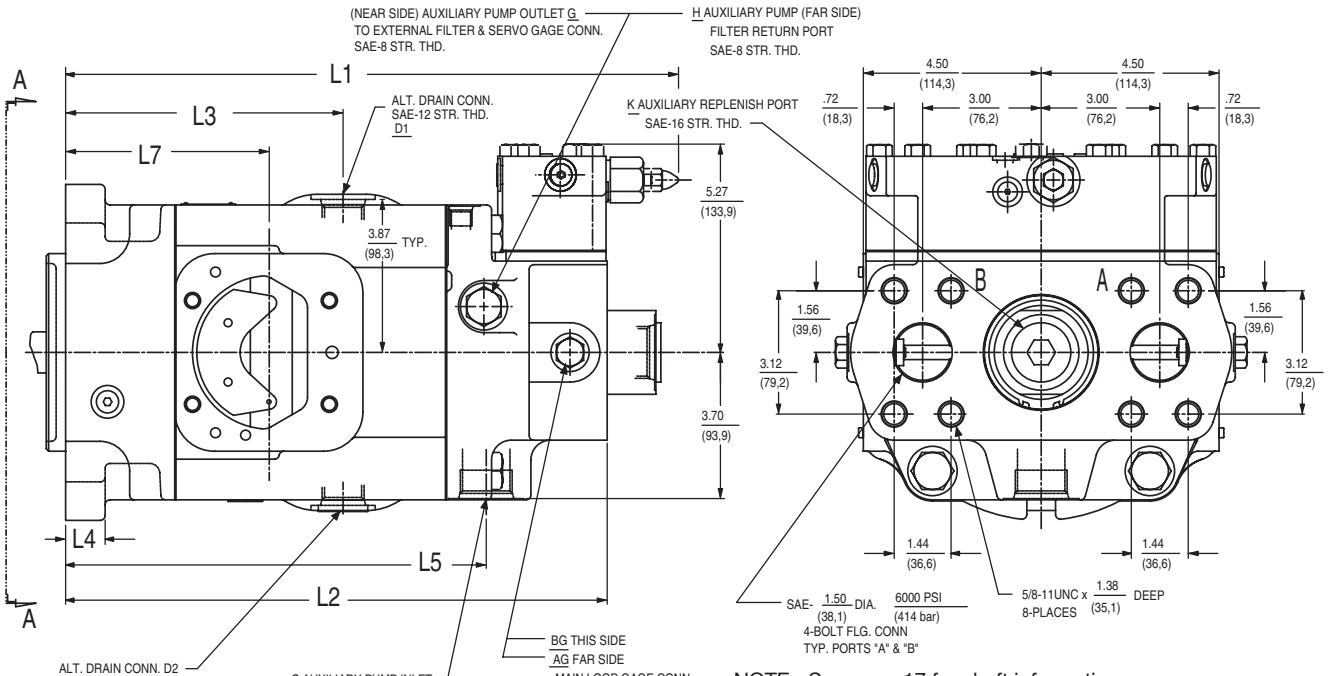
P*V



P*D & P*P

TABLE 1

MOUNTING	L1	L2	L3	L4	L5	L7
SAE 127-2 (SAE-C)	15.51 (393,9)	13.70 (348,0)	7.02 (178,3)	1.00 (25,4)	10.64 (270,3)	5.15 (130,9)
SAE 152-4 (SAE-D)	16.85 (427,9)	15.04 (382,1)	8.36 (212,3)	.86 (21,8)	11.98 (304,3)	6.49 (164,8)



NOTE: See page 17 for shaft information.
See appropriate controls mounting starting on page 35.

P*X

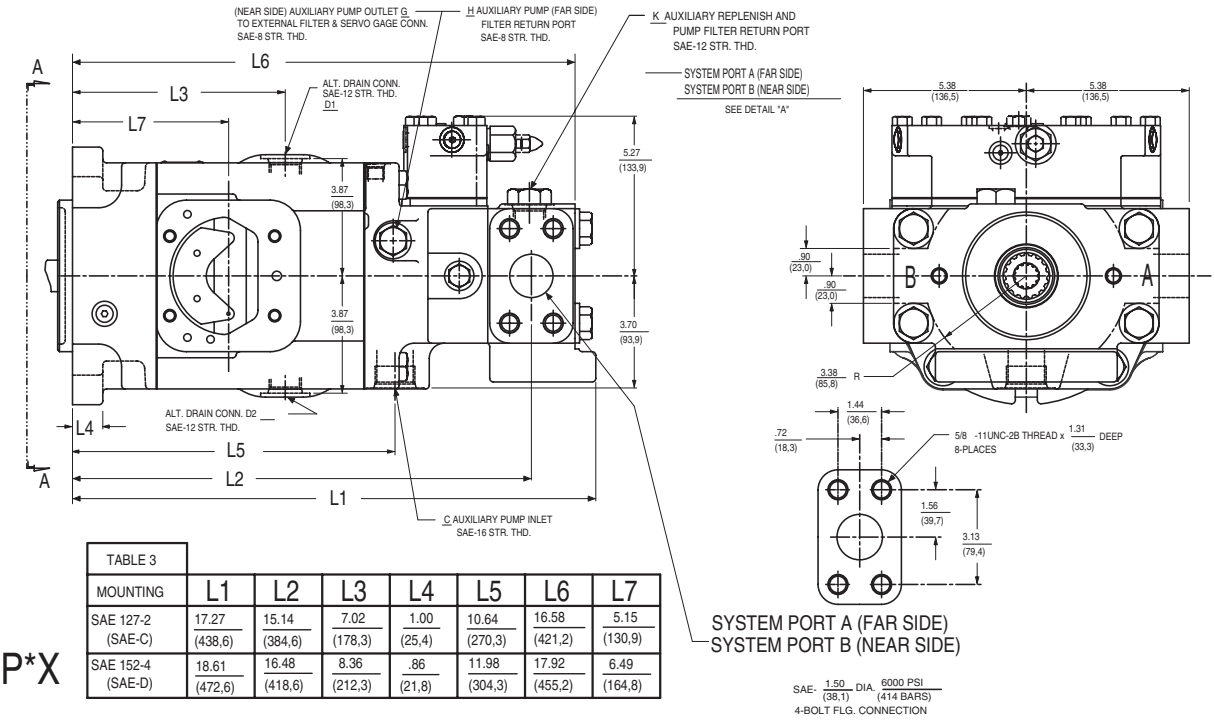
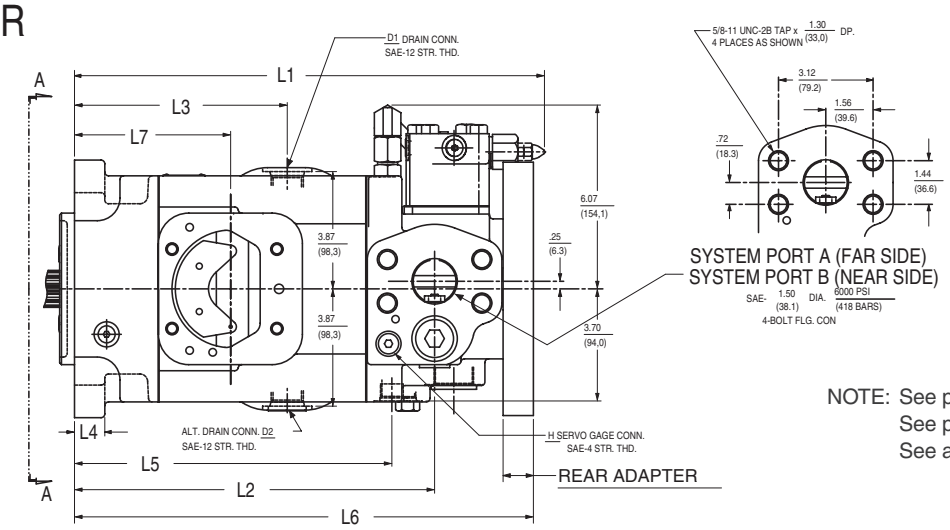
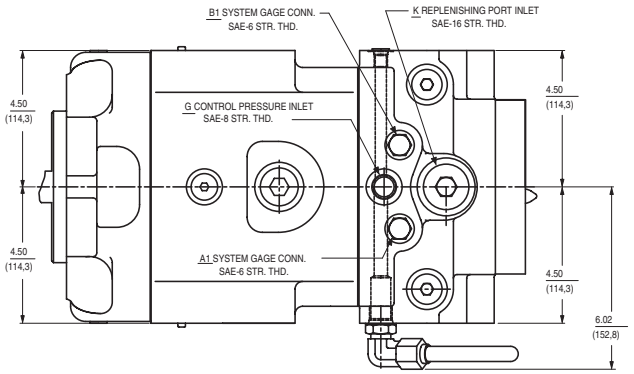


TABLE 3							
MOUNTING	L1	L2	L3	L4	L5	L6	L7
SAE 127-2 (SAE-C)	17.27 (438,6)	15.14 (384,6)	7.02 (178,3)	1.00 (25,4)	10.64 (270,3)	16.58 (421,2)	5.15 (130,9)
SAE 152-4 (SAE-D)	18.61 (472,6)	16.48 (418,6)	8.36 (212,3)	.86 (21,8)	11.98 (304,3)	17.92 (455,2)	6.49 (164,8)

P*R

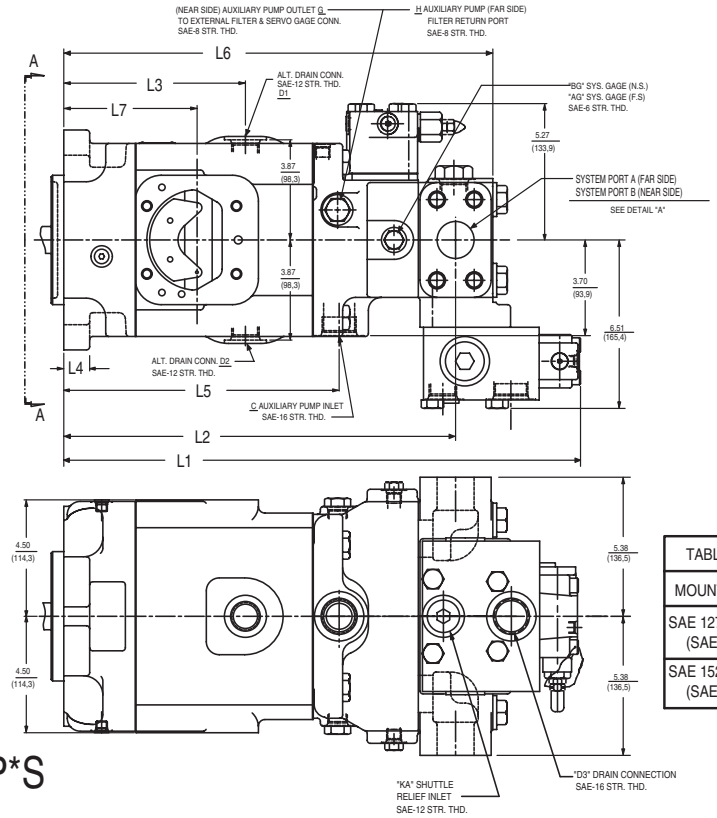


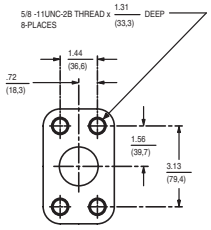


NOTE: See page 16 for shaft information.
See pages 45-54 for rear drive information.
See appropriate controls mounting starting on page 34.

TABLE 2							
MOUNTING	L1	L2	L3	L4	L5	L6	L7
SAE 127-2 (SAE-C)	15.51 (393,9)	11.88 (301,8)	7.02 (178,3)	1.00 (25,4)	10.64 (270,3)	15.14 (384,6)	5.15 (130,9)
SAE 152-4 (SAE-D)	16.85 (427,9)	13.22 (335,9)	8.36 (212,3)	.86 (21,8)	11.98 (304,3)	16.48 (418,7)	6.49 (164,8)

NOTE: See page 17 for shaft information.
See pages 47-56 for rear drive information.
See appropriate controls mounting starting on page 35.





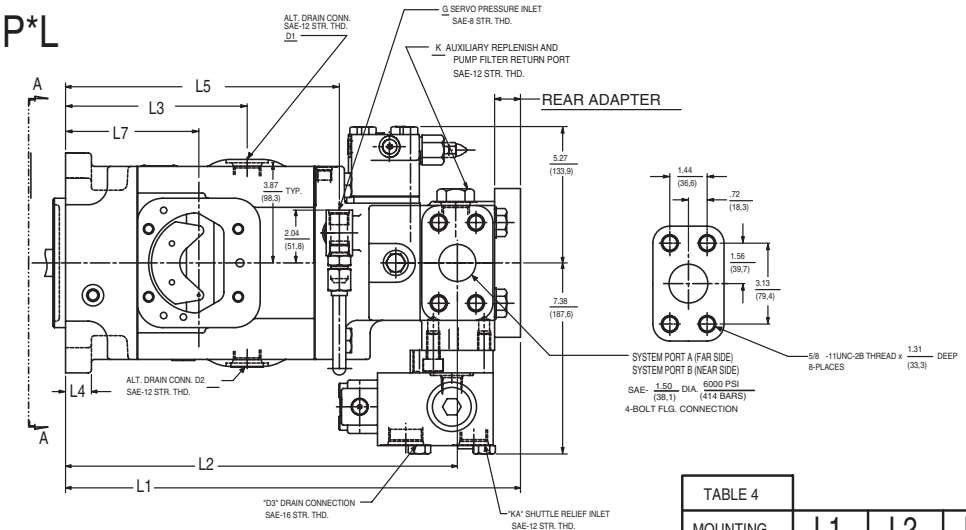
DETAIL "A"

SYSTEM PORTS A & B
SAE- 1.50 (38,1) DIA. 6000 PSI (414 BARS)
4-BOLT FLG. CONNECTION

P*S

TABLE 5							
MOUNTING	L1	L2	L3	L4	L5	L6	L7
SAE 127-2 (SAE-C)	19.97 (507,3)	15.14 (384,6)	7.02 (178,3)	1.00 (25,4)	10.64 (270,3)	16.58 (421,2)	5.15 (130,9)
SAE 152-4 (SAE-D)	21.31 (541,3)	16.48 (418,6)	8.36 (212,3)	.86 (21,8)	11.98 (304,3)	17.92 (455,2)	6.49 (164,8)

P*L



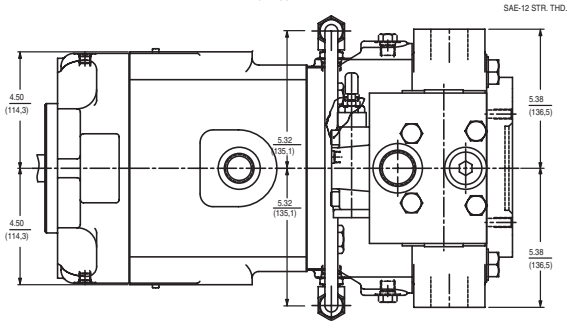
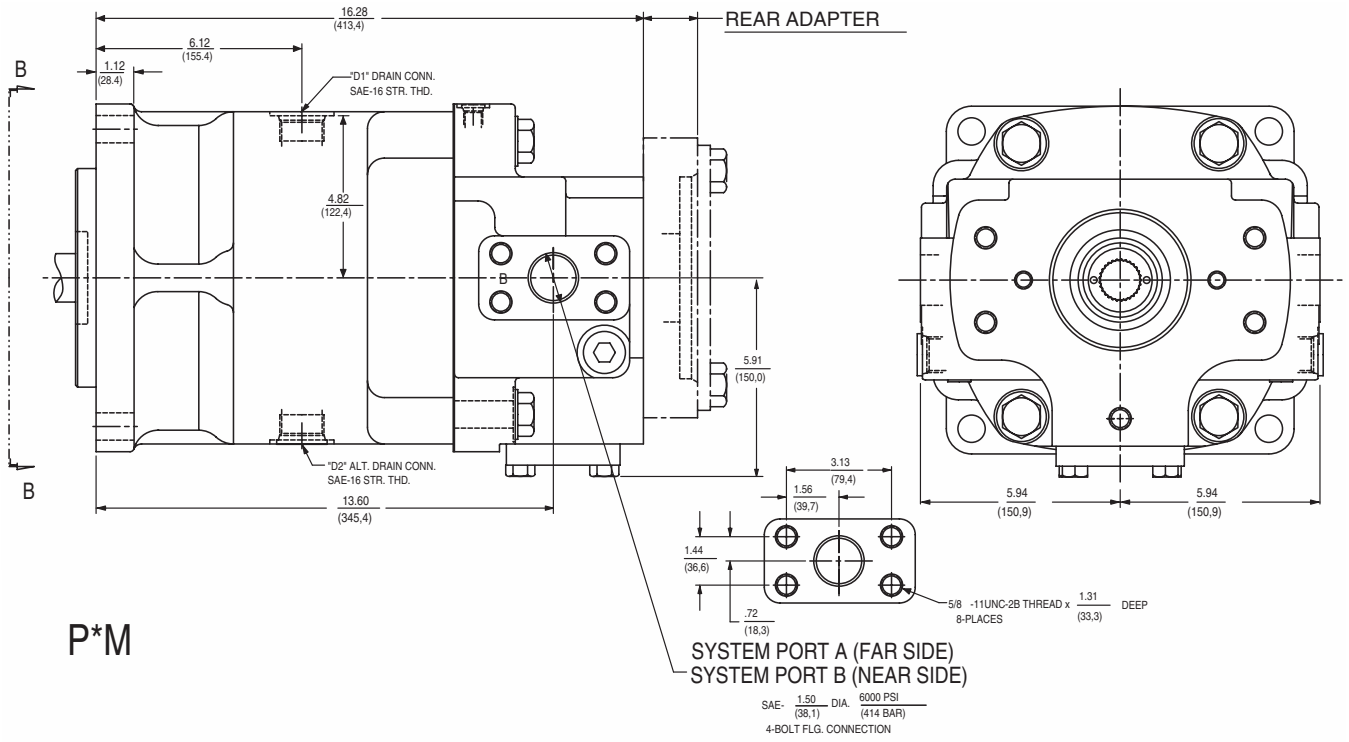


TABLE 4							
MOUNTING	L1	L2	L3	L4	L5	L6	L7
SAE 127-2 (SAE-C)	17.58 (446,6)	15.14 (384,6)	7.02 (178,3)	1.00 (25,4)	10.58 (268,8)	16.58 (421,2)	5.15 (130,9)
SAE 152-4 (SAE-D)	18.92 (480,6)	16.48 (418,6)	8.36 (212,3)	.86 (21,8)	11.92 (302,8)	17.92 (455,2)	6.49 (164,8)

NOTE: See page 17 for shaft information.
See pages 47-56 for rear drive information.
See appropriate controls mounting starting on page 35.



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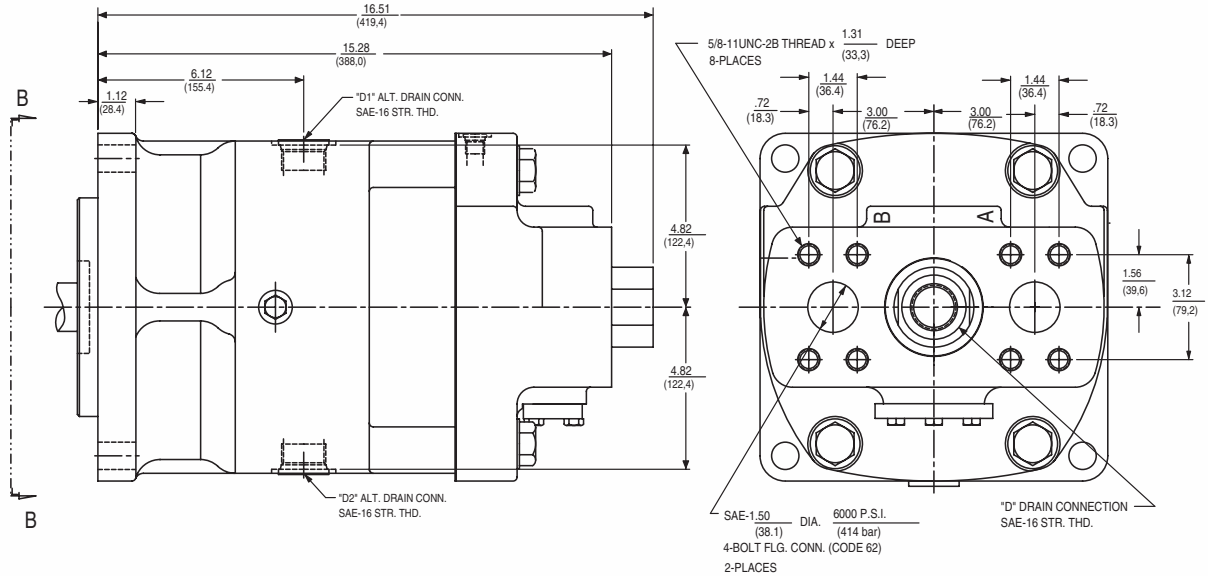


NOTE: See page 24 for shaft information.
See pages 47-56 for rear drive information.

P*P

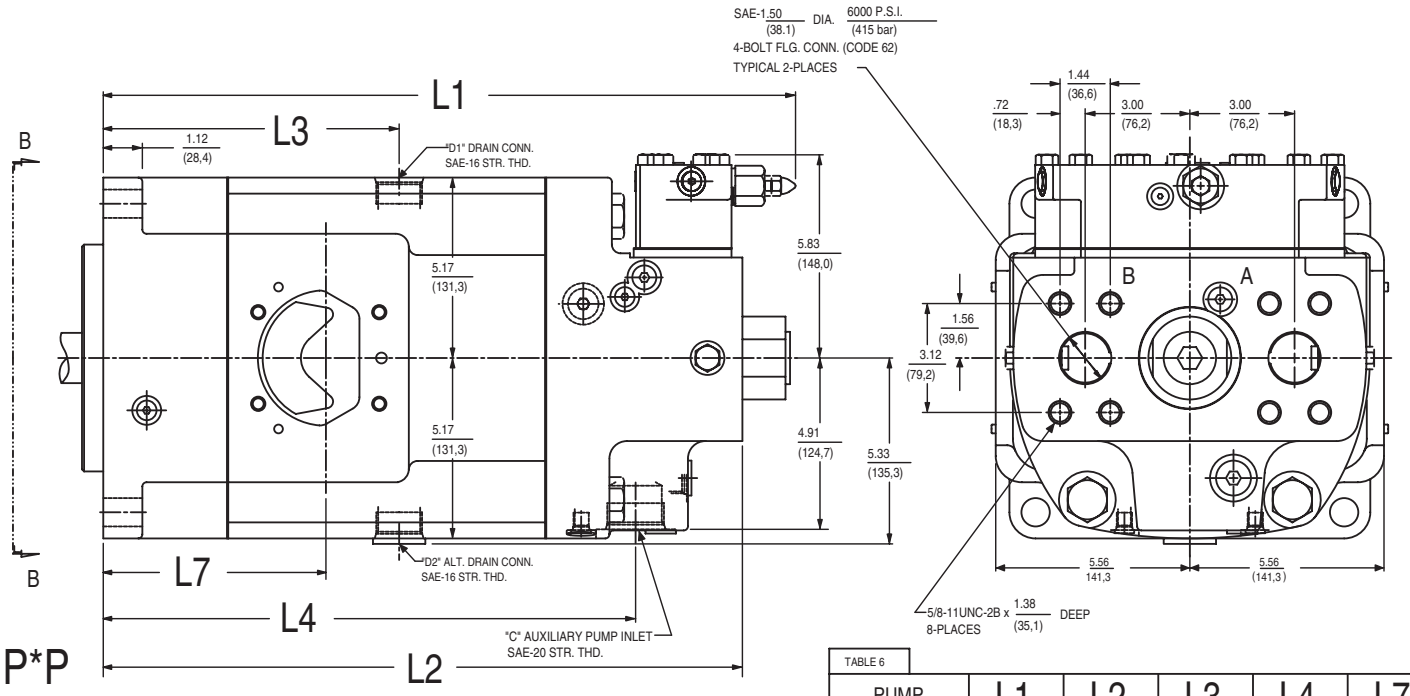
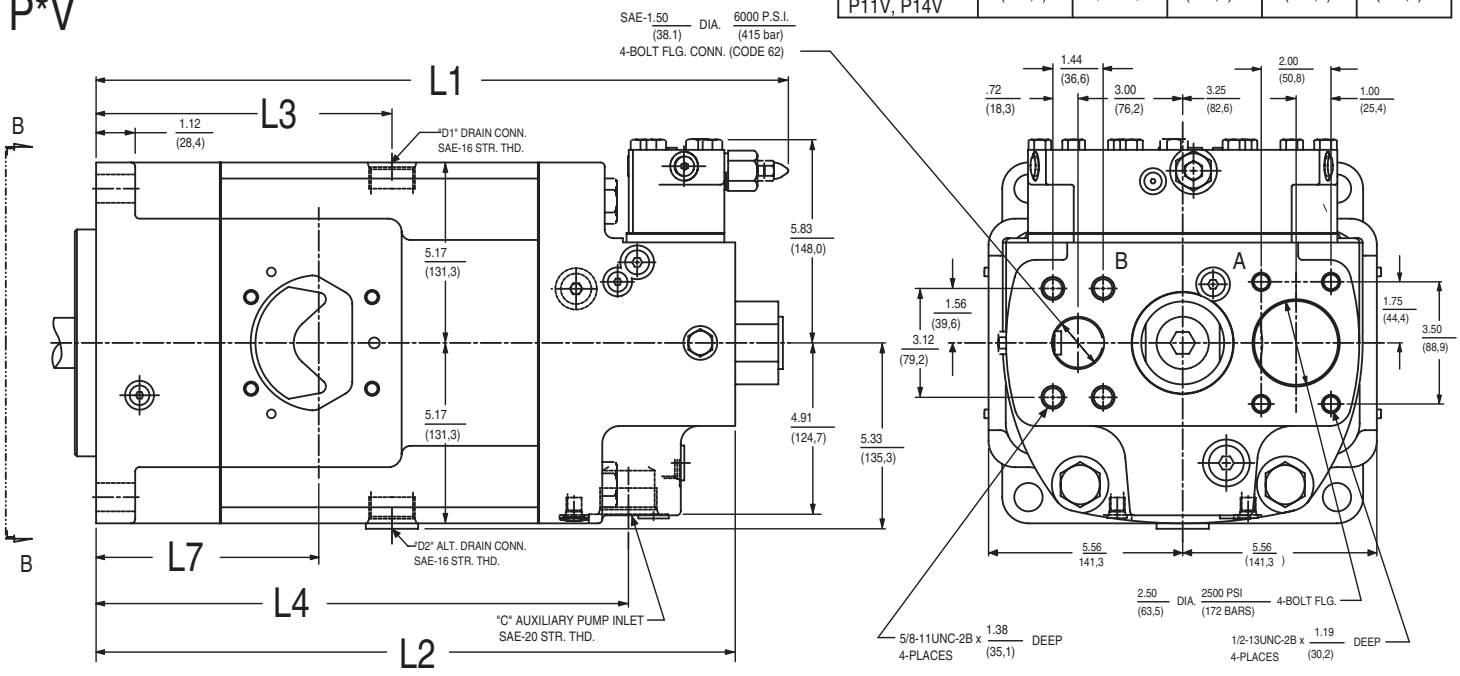
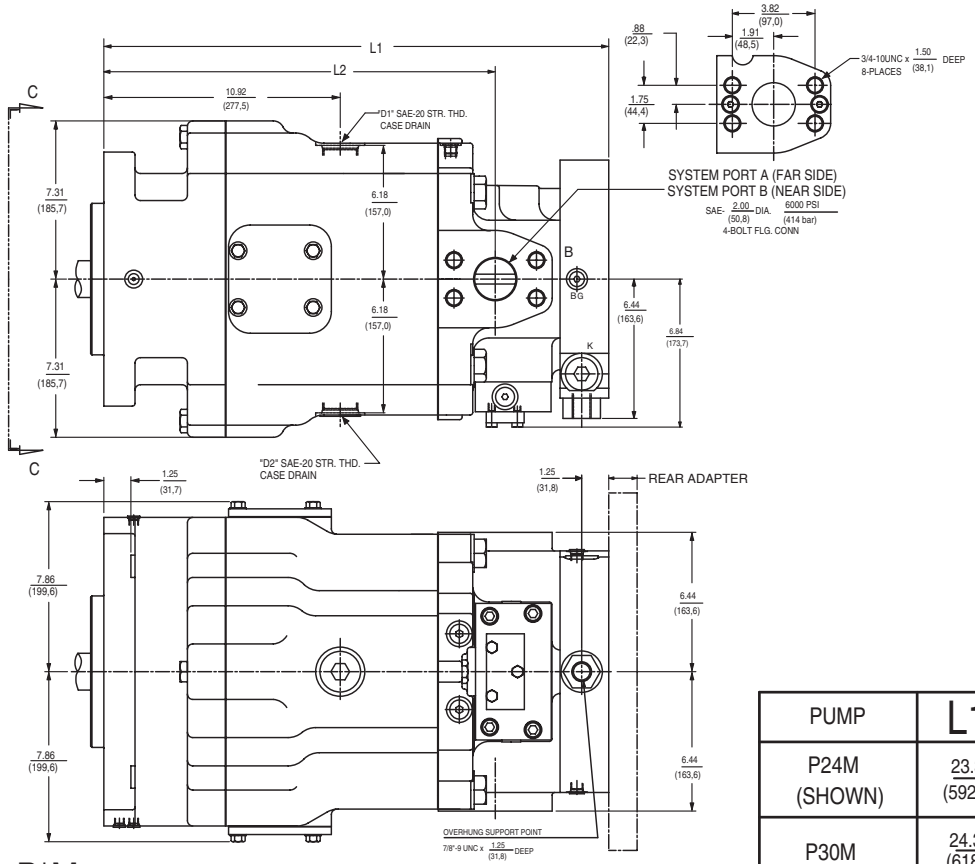


TABLE 6					
PUMP	L1	L2	L3	L4	L7
P11P, P14P & P11V, P14V	19.83 (503,8)	18.31 (465,2)	8.48 (215,3)	15.25 (387,4)	6.38 (162,0)

P*V



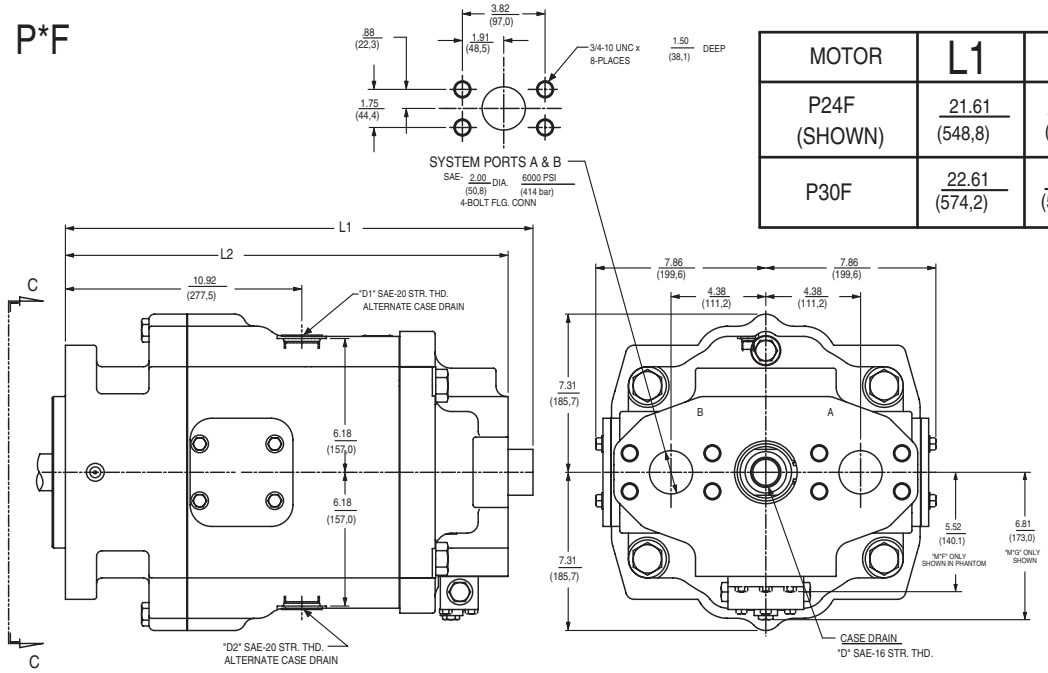
NOTE: See page 24 for shaft information.
See appropriate controls mounting starting on page 35.



P*M

PUMP	L1	L2
P24M (SHOWN)	23.33 (592,6)	18.09 (459,4)
P30M	24.33 (618,0)	19.09 (484,8)

P*F



MOTOR	L1	L2
P24F (SHOWN)	21.61 (548,8)	20.46 (519,6)
P30F	22.61 (574,2)	21.46 (545,0)

NOTE: See page 33 for shaft information.

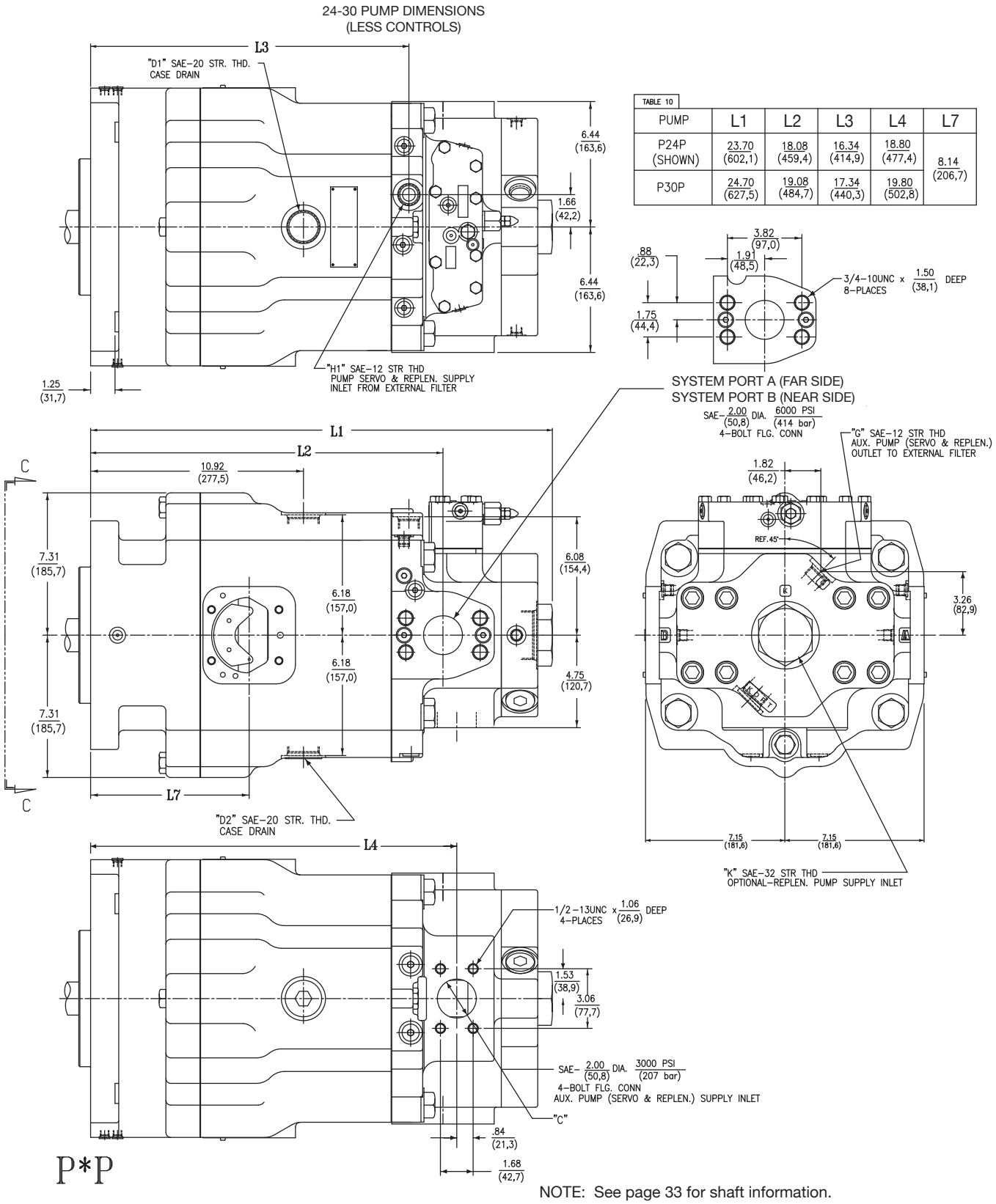


TABLE 10

PUMP	L1	L2	L3	L4	L7
P24P (SHOWN)	23.70 (602,1)	18.08 (459,4)	16.34 (414,9)	18.80 (477,4)	8.14 (206,7)
P30P	24.70 (627,5)	19.08 (484,7)	17.34 (440,3)	19.80 (502,8)	

NOTE: See page 33 for shaft information.
See appropriate controls mounting starting on page 35.

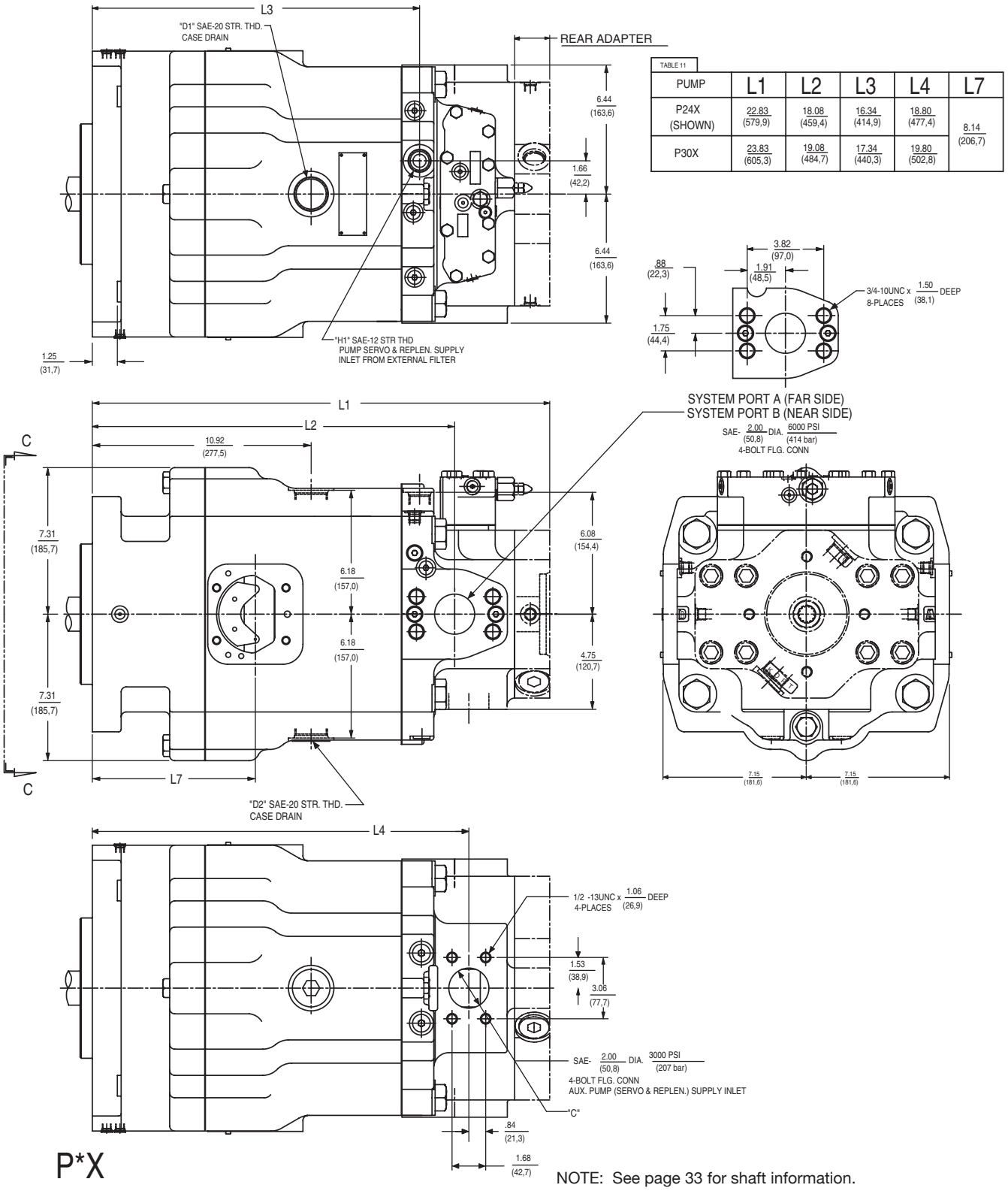


TABLE 11

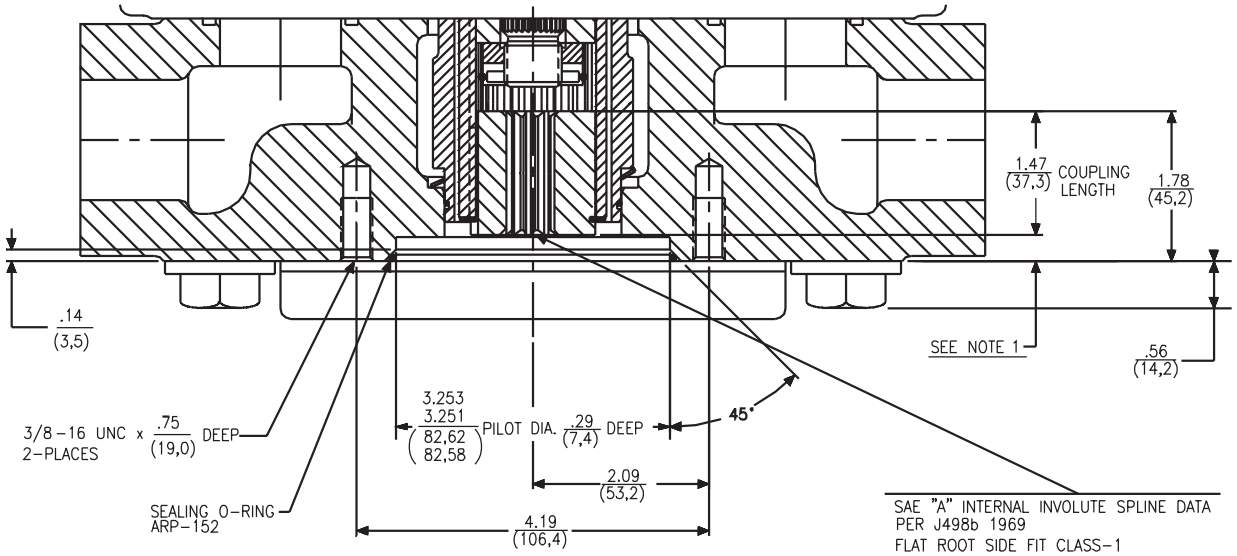
PUMP	L1	L2	L3	L4	L7
P24X (SHOWN)	22.83 (579,9)	18.08 (459,4)	16.34 (414,9)	18.80 (477,4)	8.14 (206,7)
P30X	23.83 (605,3)	19.08 (484,7)	17.34 (440,3)	19.80 (502,8)	

NOTE: See page 33 for shaft information.
See pages 47-56 for rear drive information.
See appropriate controls mounting starting on page 35.

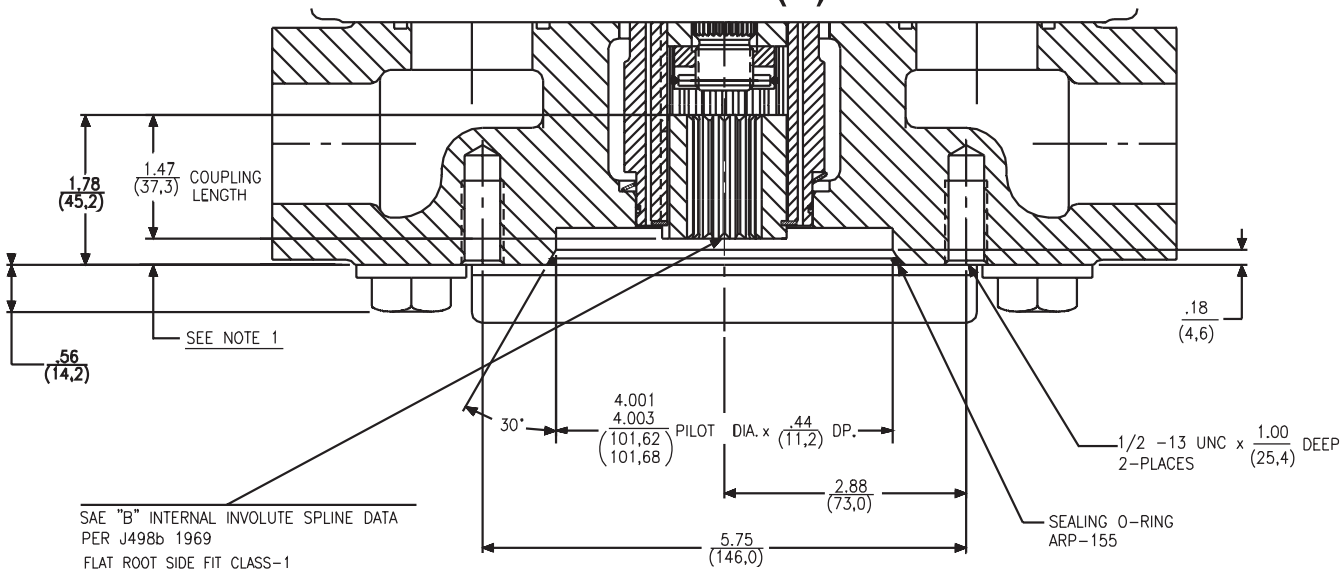
		SAE Mounting and Coupling								
	Mounting	**Blanking Plate**	**82-2 (A)**	**101-2 (B)**	**101-4 (B)**	**127-2 (C)**	**127-4 (C)**	**152-4 (D)**	**165-4 (E)**	**177-4 (F)**
	Coupling	**None**	**16-4 (A)**	**22-4 (B)**	**22-4 (B)**	**32-4 (C)**	**32-4 (C)**	**44-4 (D)**	**44-4 (E)**	**50-4 (F)**
Pumps	**P6/7/8 S, X**	M	A	B	-	-	-	-	-	-
	P6/7/8 R, L , M	M	A	B	-	C	-	-	-	-
	P11/14 S, X	M	A	B	-	-	-	-	-	-
	P11/14 R, L, M	M	A	B	B	C	C	D	E	
	P24/30 S, X	-	-	B	-	C	-	-	-	-
	P24/30 R, L, M	M	-	B	B	C	C	D	E	F

P6-14 S,X
SAE 82-2 (A) WITH COUPLING 16-4
SAE 101-2 (B) WITH COUPLING 22-4

NOTE:
1. REAR AUXILIARY UNIT TO LIMIT COUPLING TRAVEL .28(7.1) MINIMUM FROM MOUNTING FACE (SAE STD. REF.)

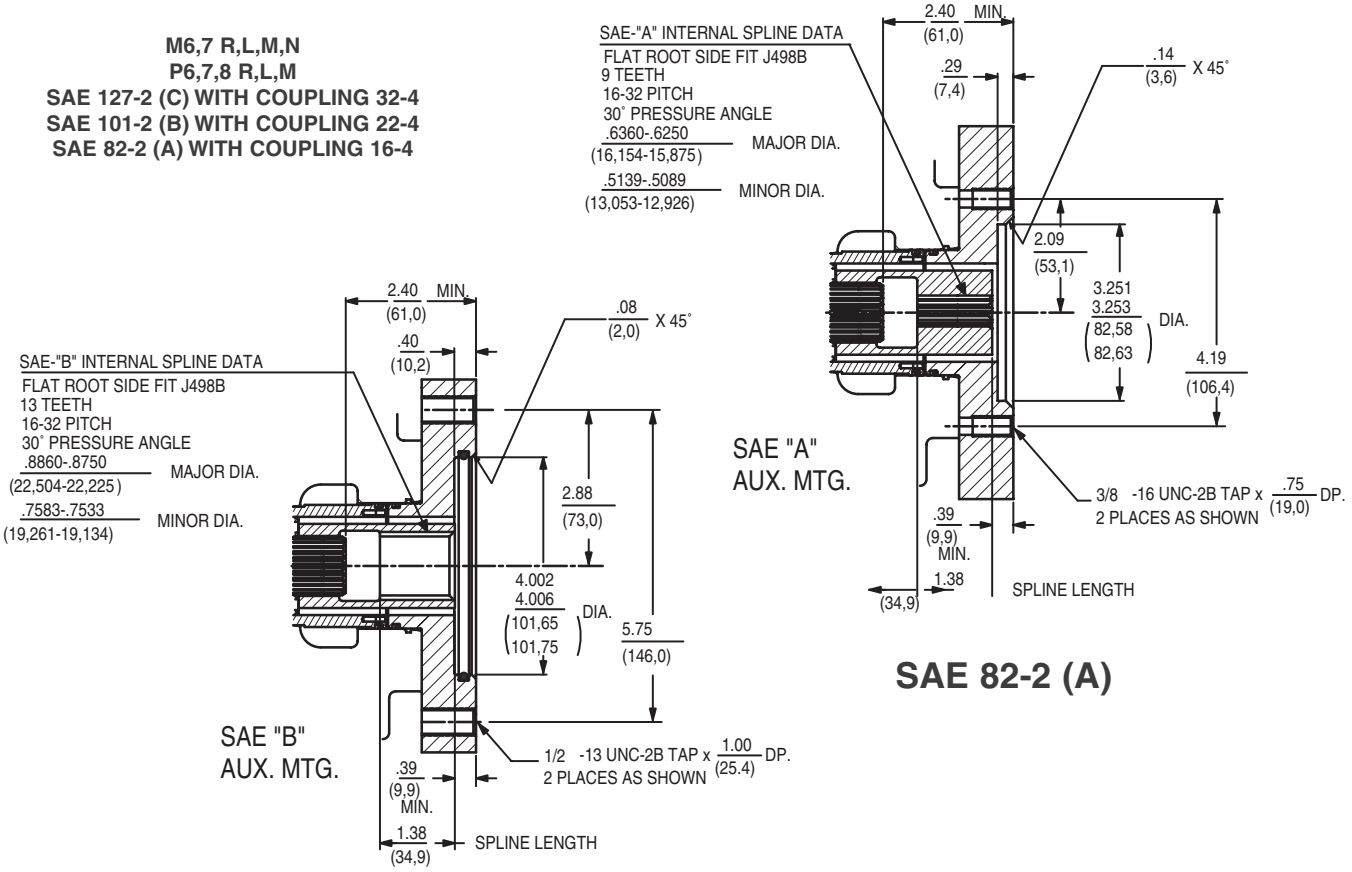


SAE 82-2 (A)



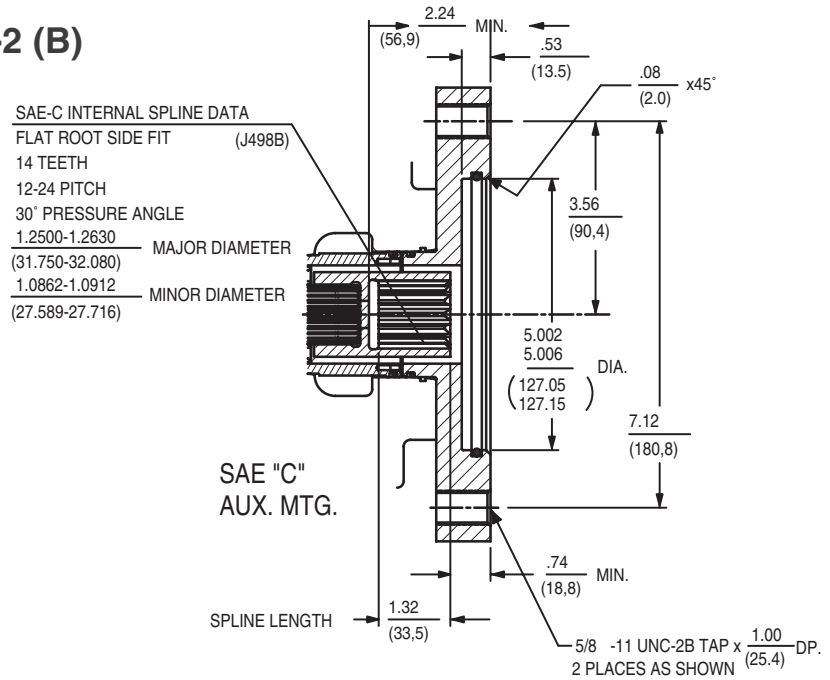
SAE 101-2 (B)

M6,7 R,L,M,N
P6,7,8 R,L,M
SAE 127-2 (C) WITH COUPLING 32-4
SAE 101-2 (B) WITH COUPLING 22-4
SAE 82-2 (A) WITH COUPLING 16-4



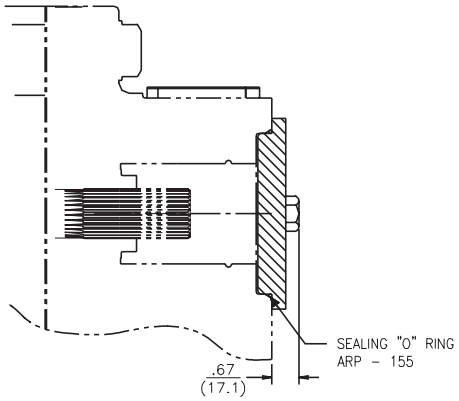
SAE 82-2 (A)

SAE 101-2 (B)

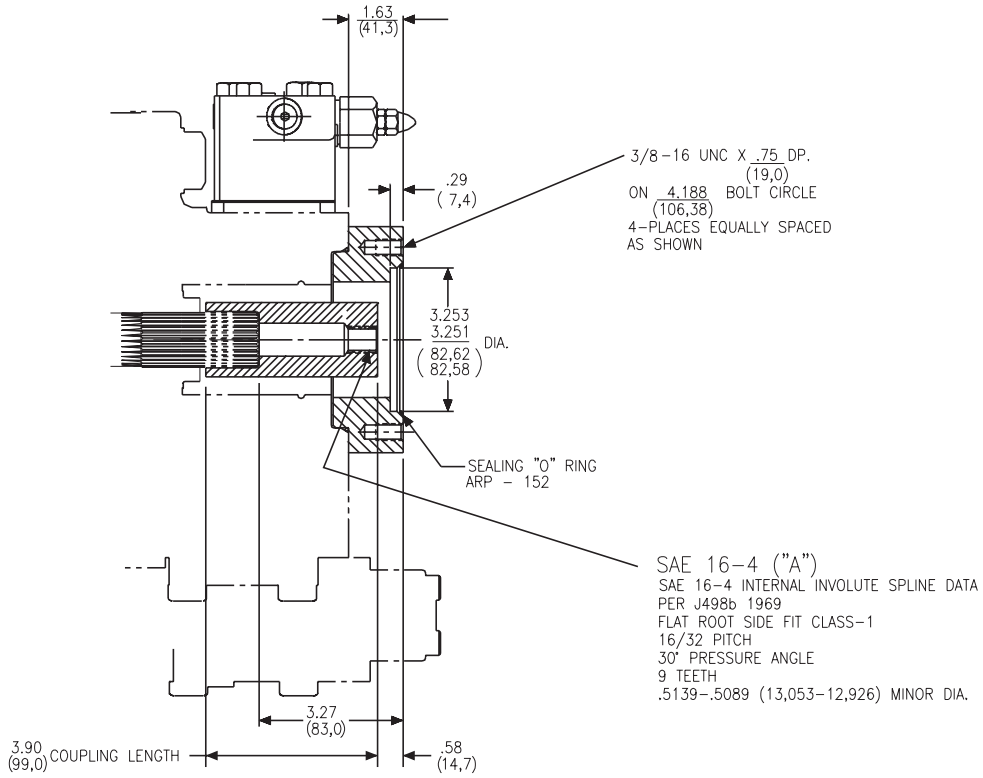


SAE 127-2 (C)

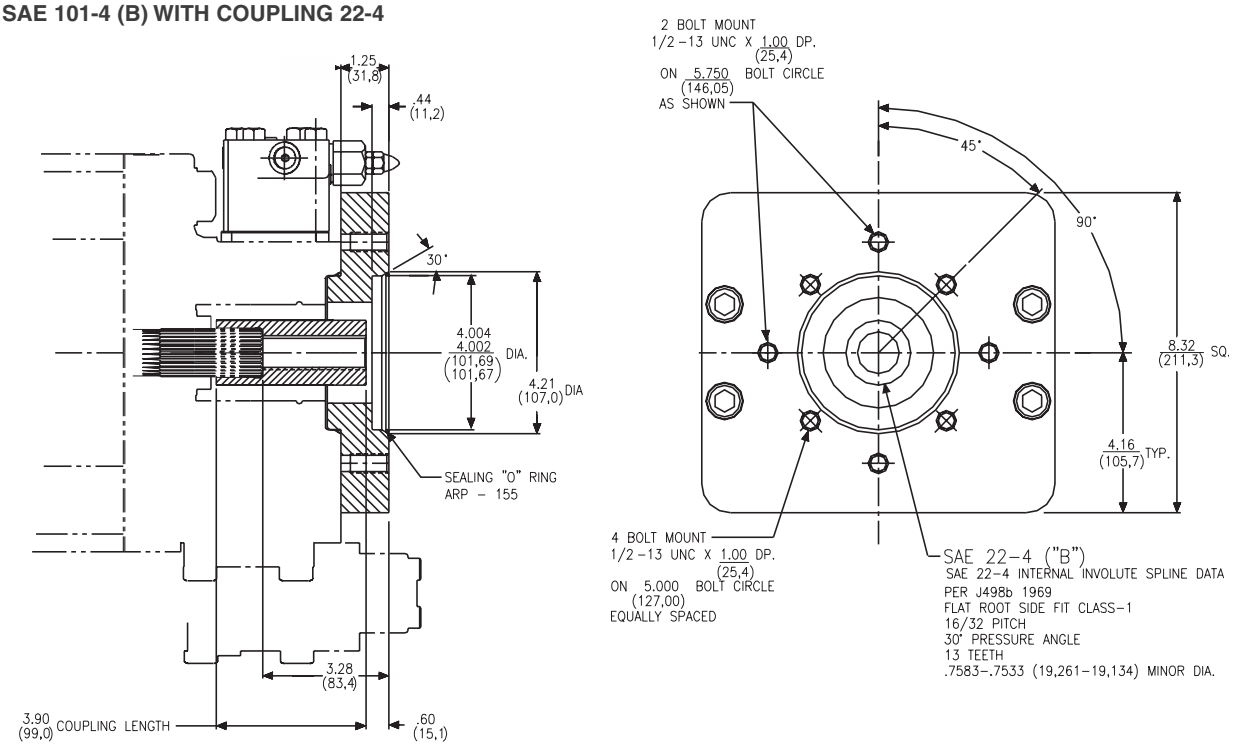
M11,14 R,L,M,N
P11,14 R,L
BLANKING PLATE



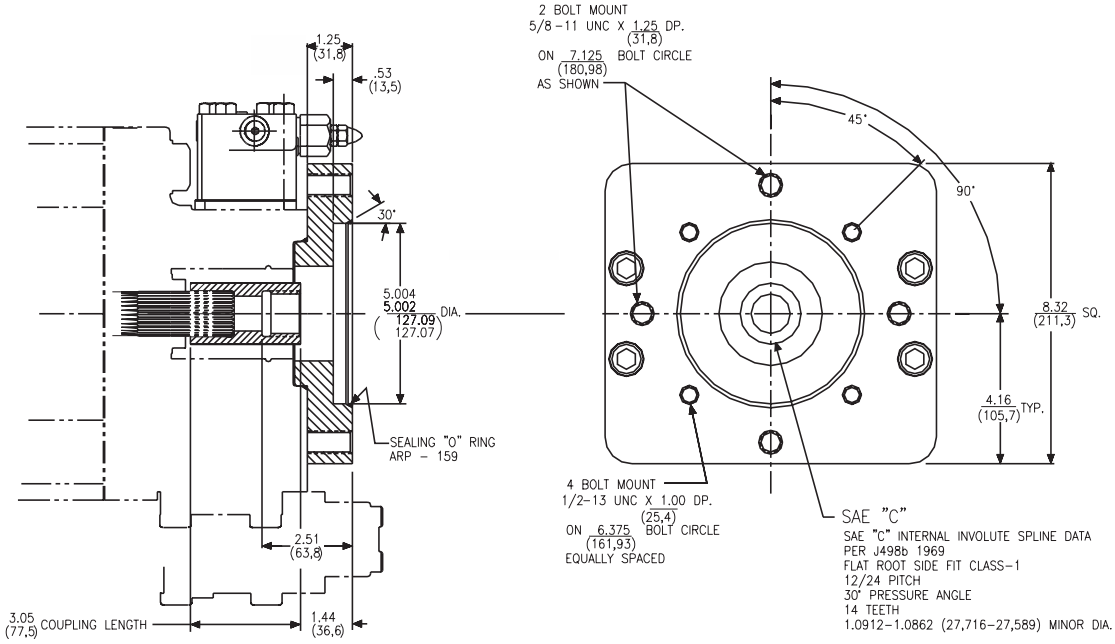
M11,14 R,L,M,N
P11,14 R,L,M
SAE 82-2 (A) WITH COUPLING 16-4



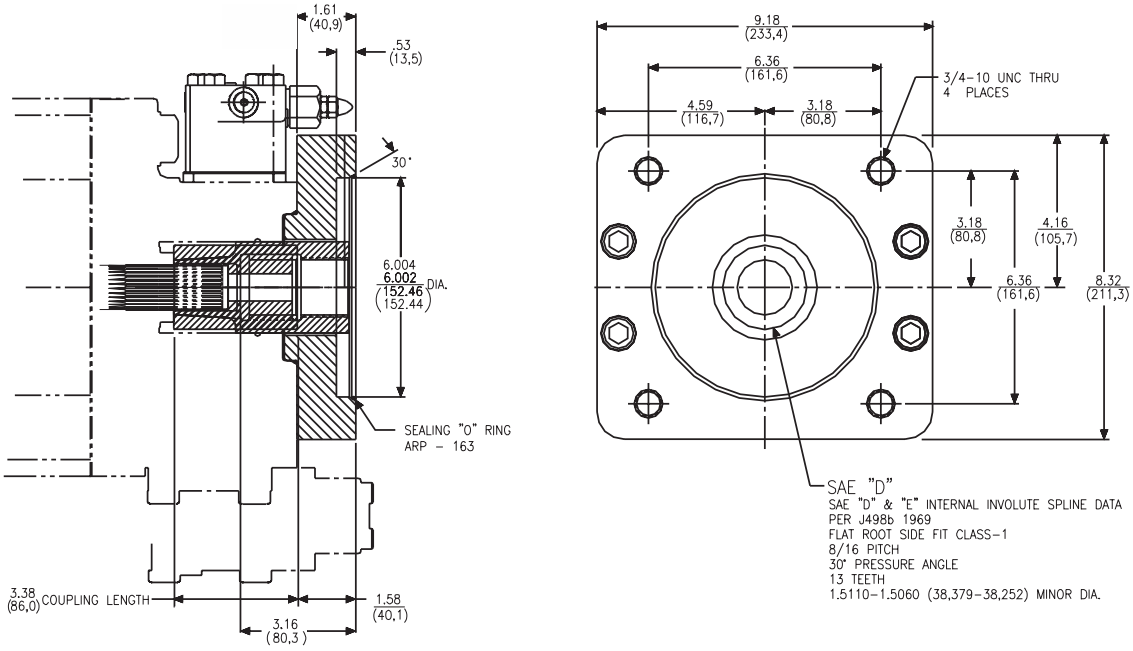
M11,14 R,L,M,N
P11,14 R,L,M
SAE 101-2 (B) WITH COUPLING 22-4
SAE 101-4 (B) WITH COUPLING 22-4



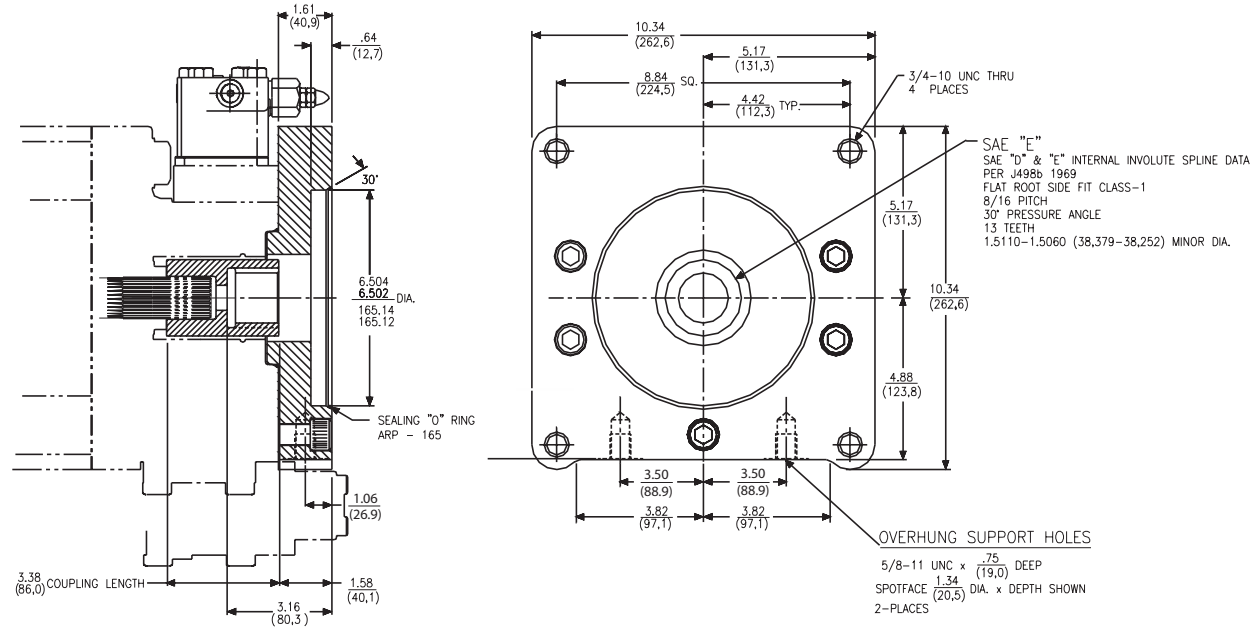
M11,14 R,L,M,N
P11,14 R,L,M
SAE 127-2 (C) WITH COUPLING 32-4
SAE 127-4 (C) WITH COUPLING 32-4



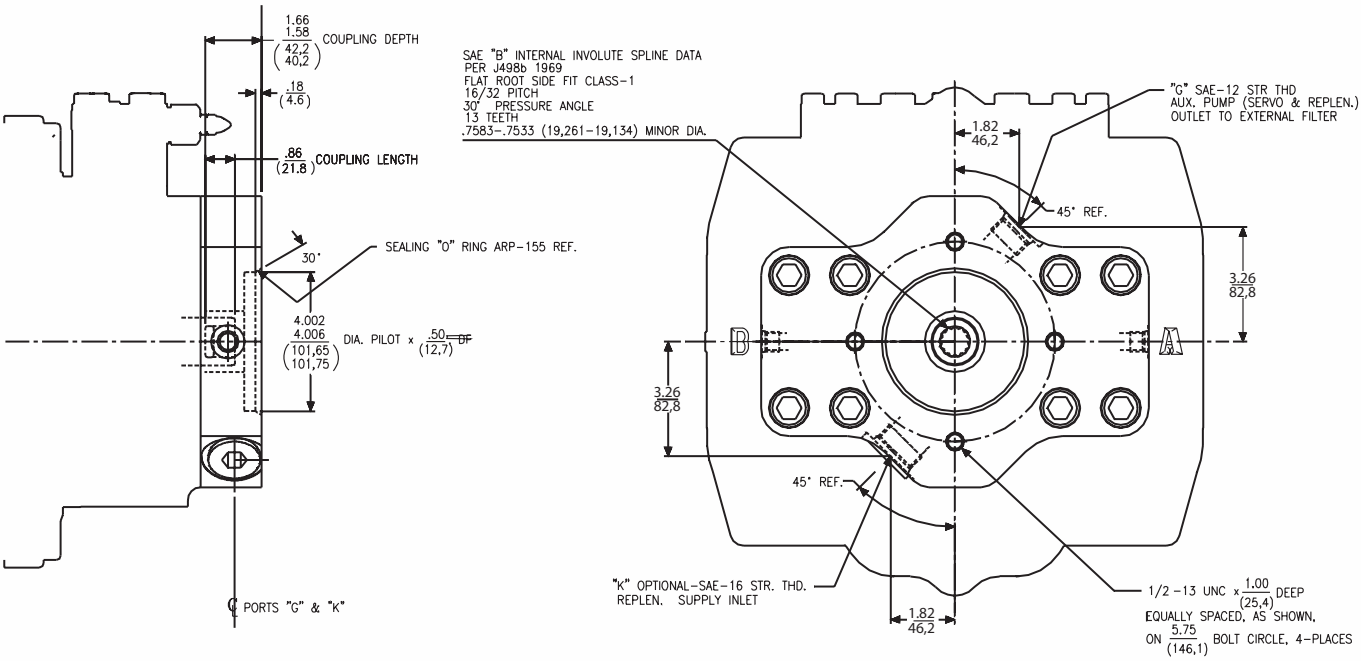
M11,14 R,L,M,N
P11,14 R,L,M
SAE 152-4 (D) WITH COUPLING 44-4



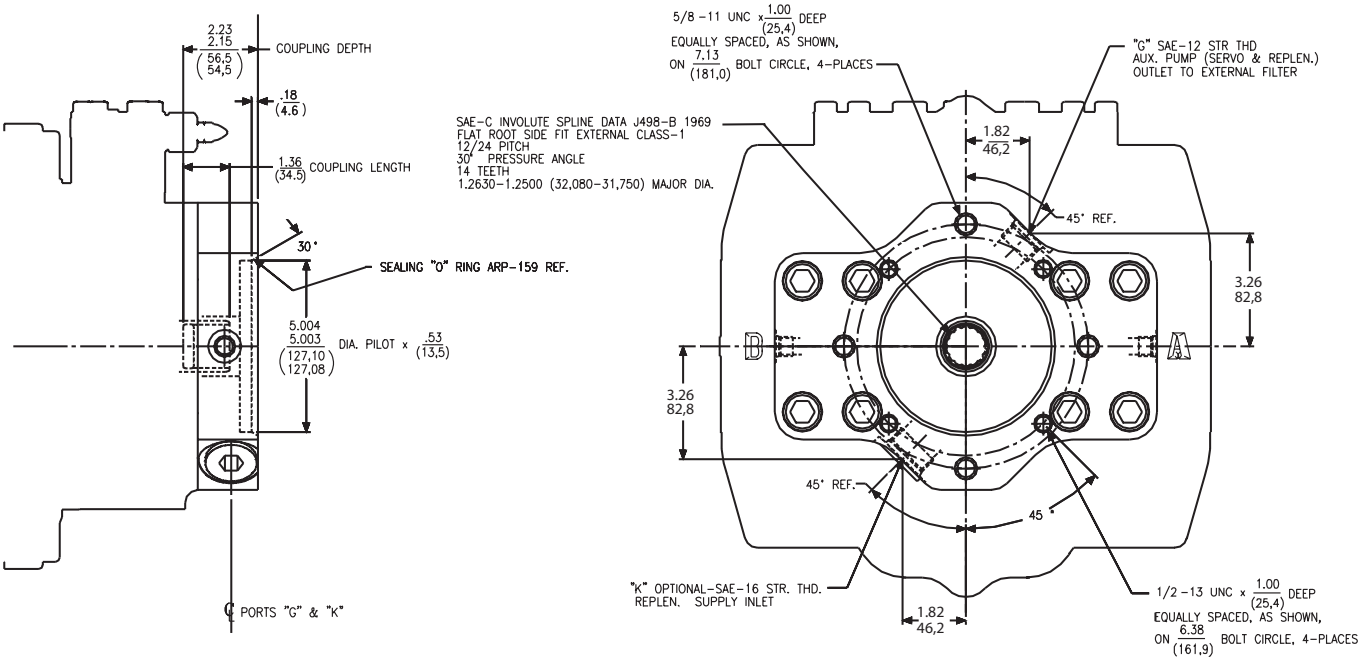
M11,14 R,L,M,N
P11,14 R,L,M
SAE 165-4 (E) WITH COUPLING 44-4



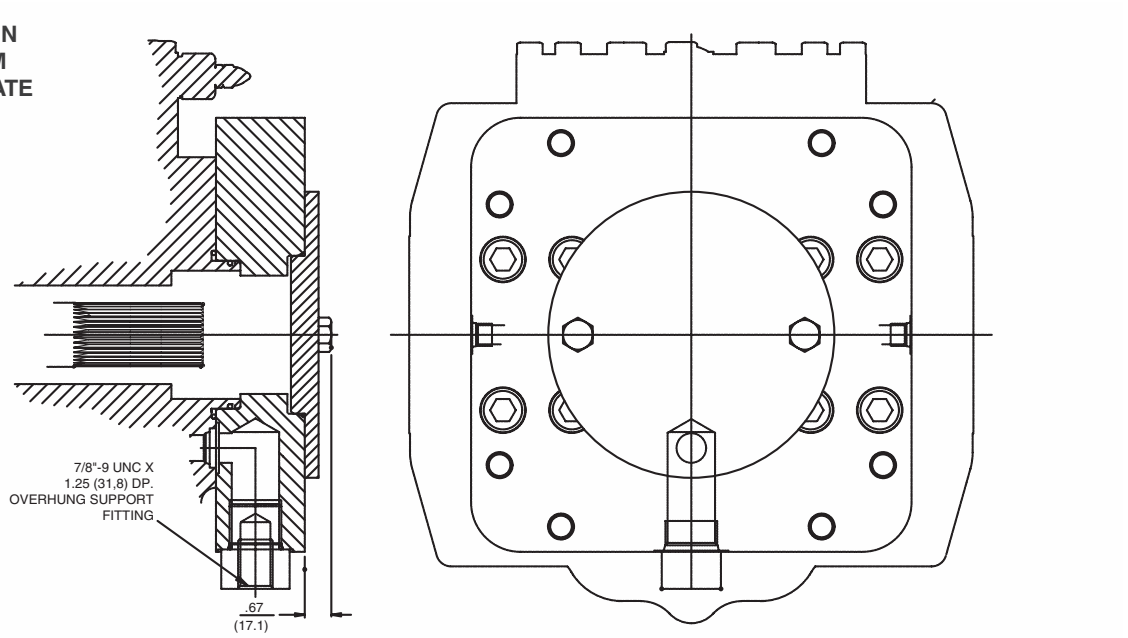
P24,30,S,X
SAE 101-2 (B) WITH COUPLING 22-4



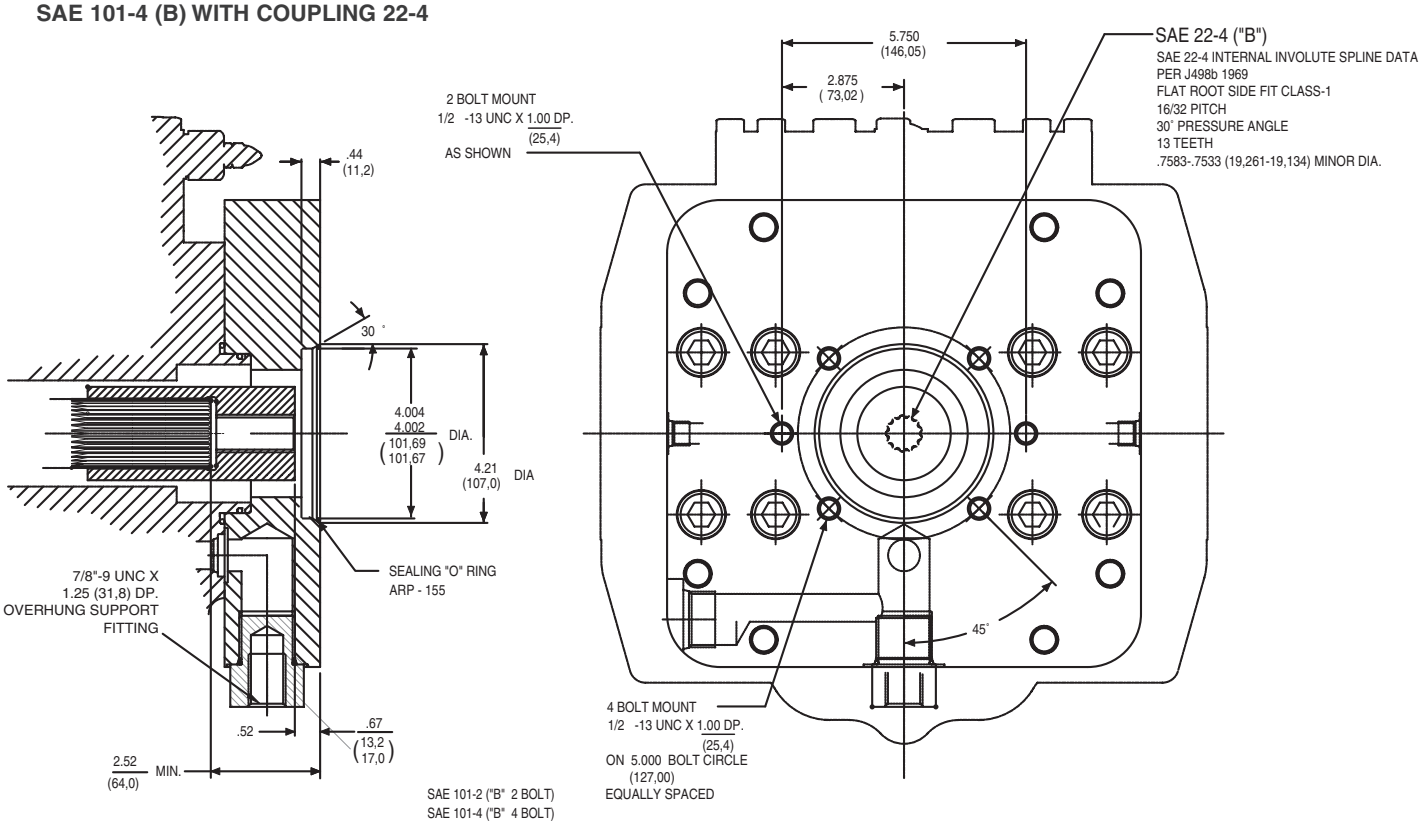
P24,30,S,X
SAE 127-2 (C) WITH COUPLING 32-4
SAE 127-4 (C) WITH COUPLING 32-4



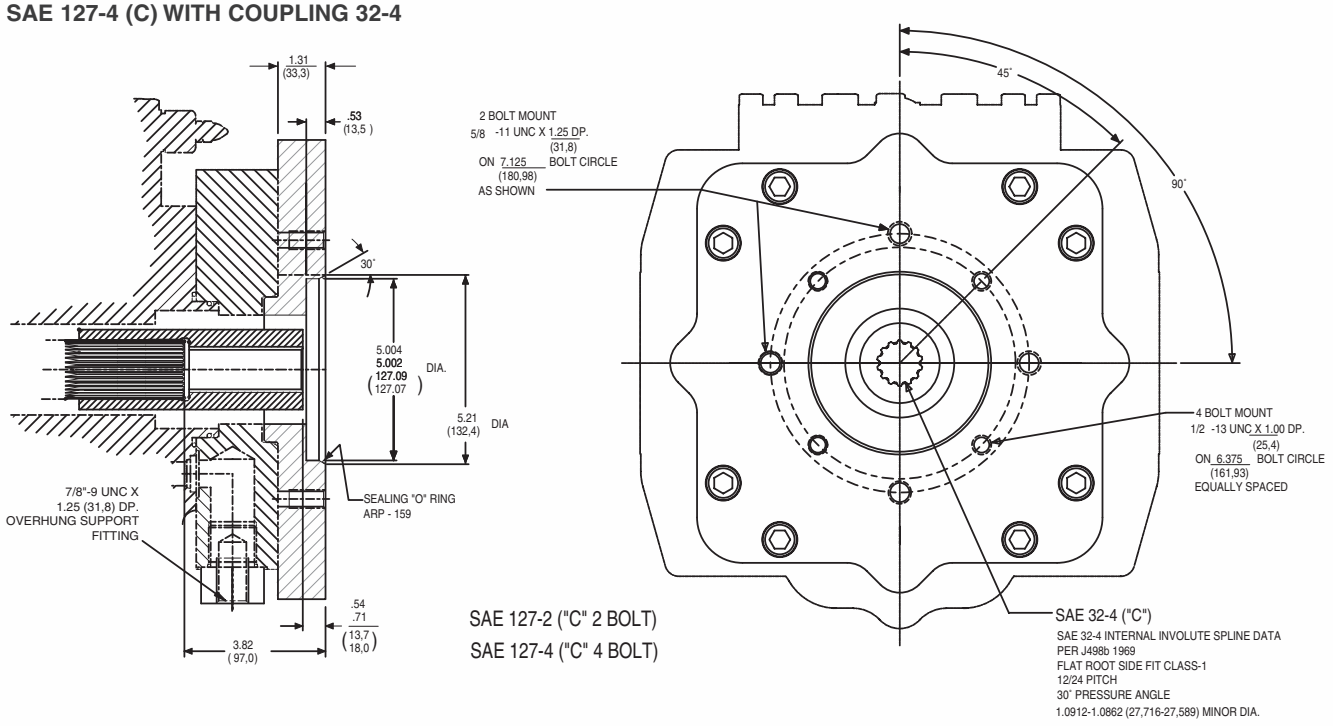
M24,30 R,L,M,N
P24,30 R,L,M
BLANKING PLATE



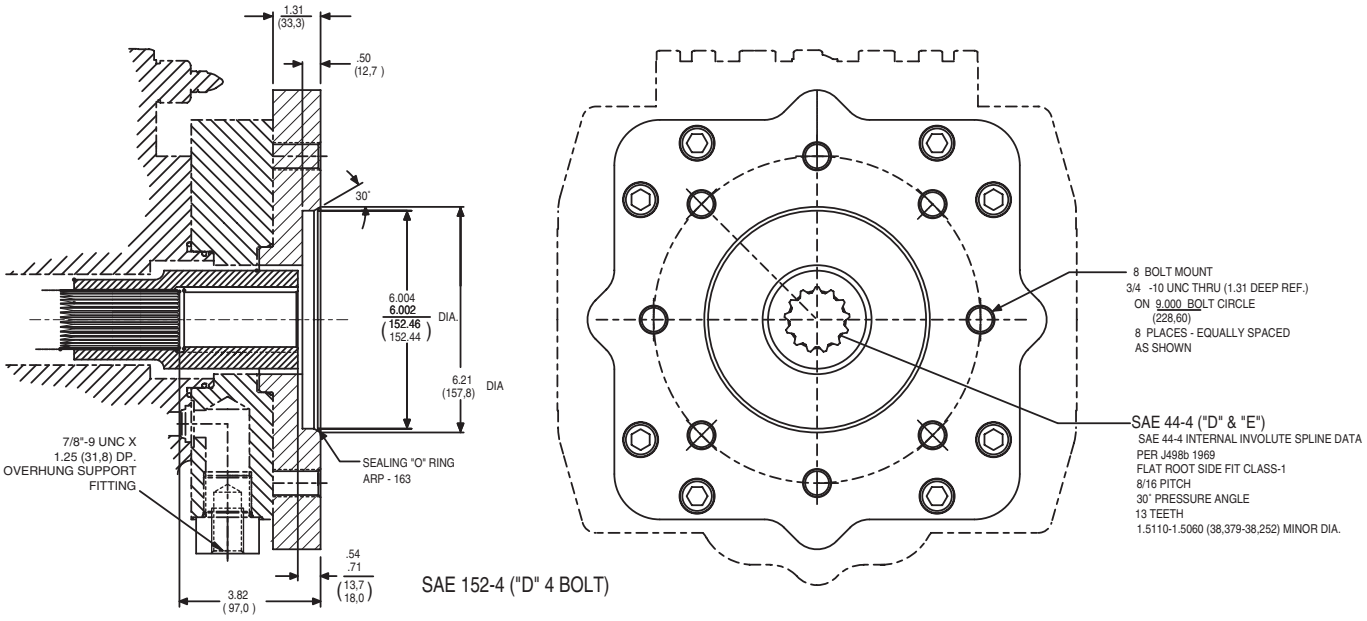
M24,30 R,L,M,N
P24,30 R,L,M
SAE 101-2 (B) WITH COUPLING 22-4
SAE 101-4 (B) WITH COUPLING 22-4



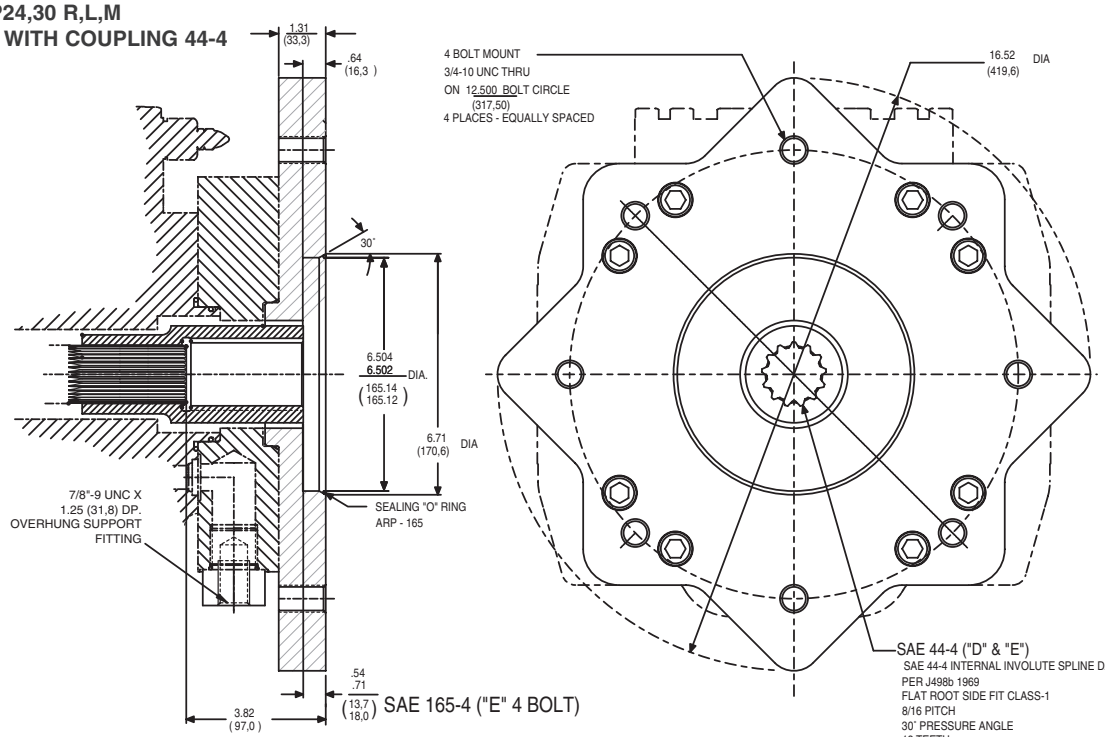
M24,30 R,L,M,N
P24,30 R,L,M
SAE 127-2 (C) WITH COUPLING 32-4
SAE 127-4 (C) WITH COUPLING 32-4



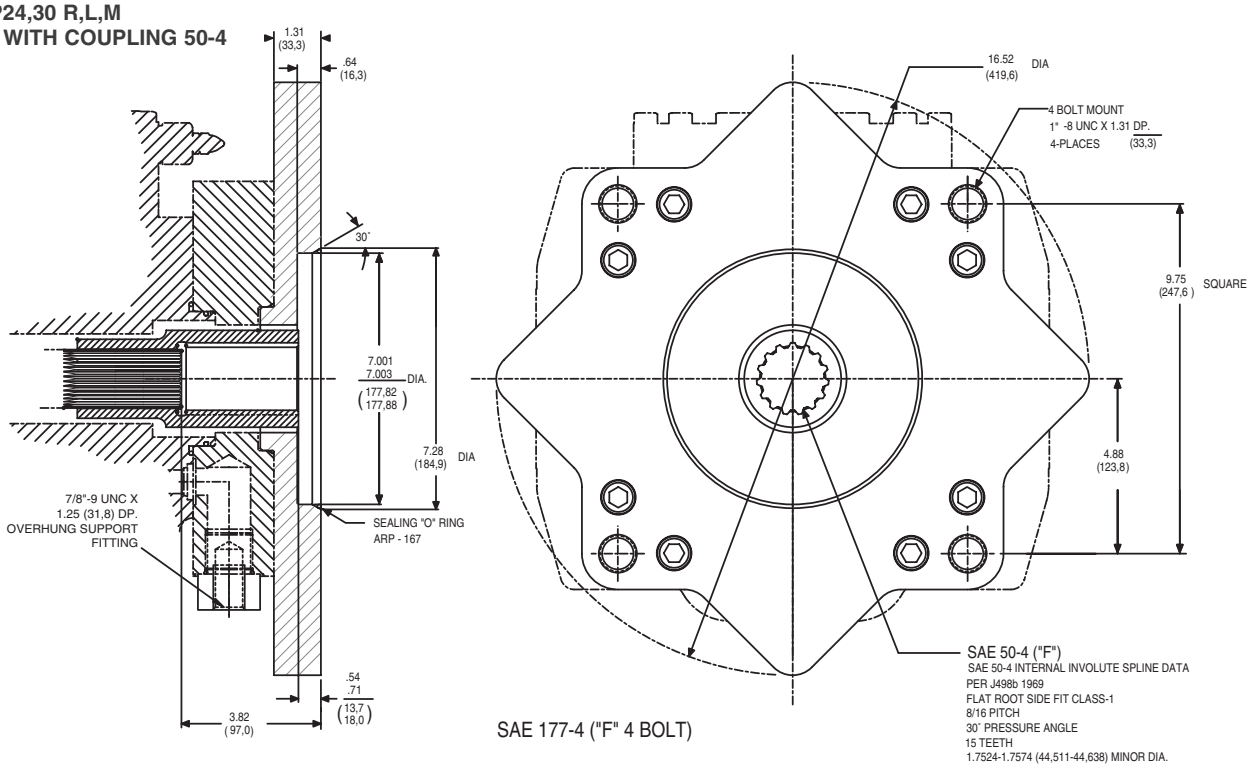
M24,30 R,L,M,N
P24,30 R,L,M
SAE 152-4 (D) WITH COUPLING 44-4



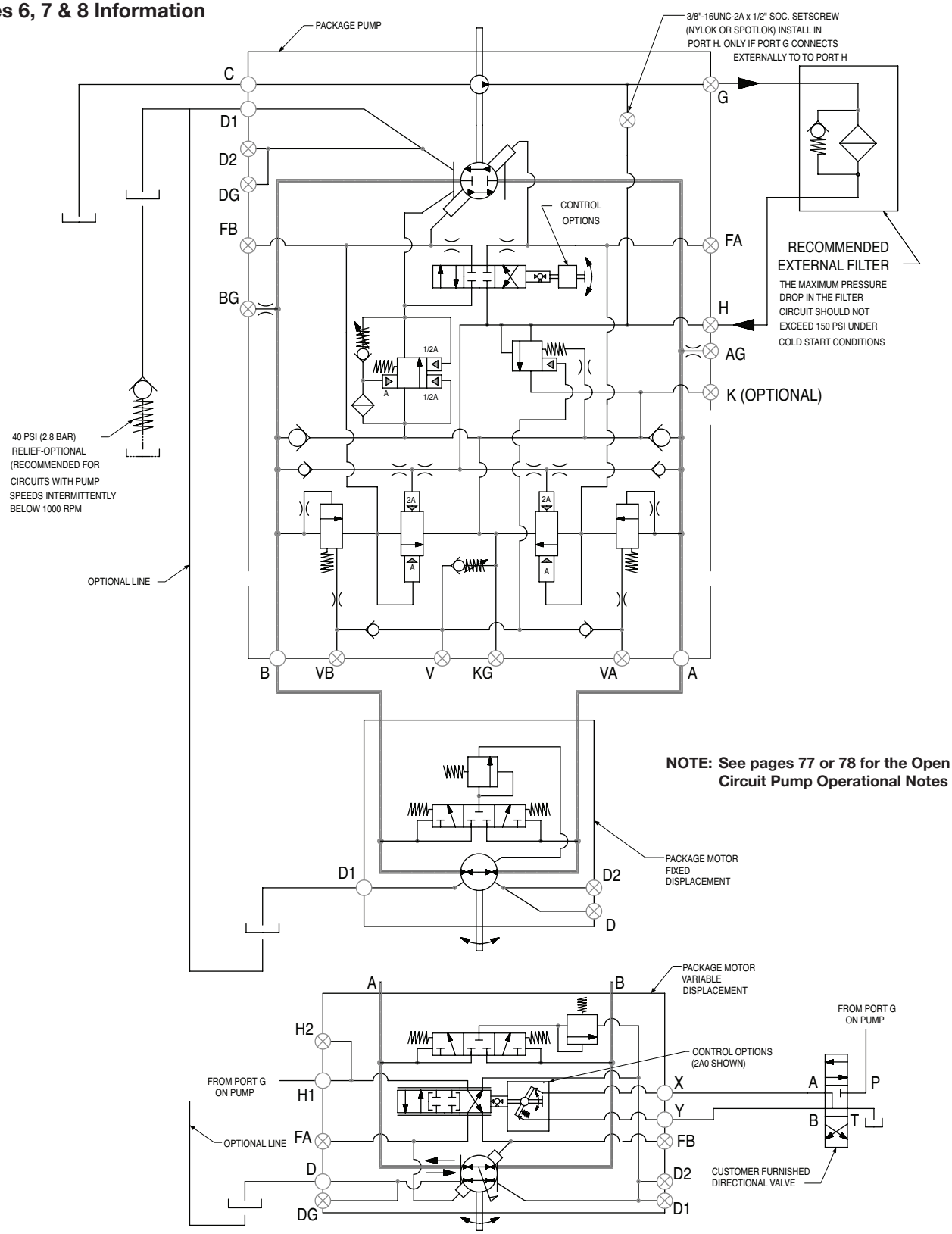
M24,30 R,L,M,N
P24,30 R,L,M
SAE 165-4 (E) WITH COUPLING 44-4



M24,30 R,L,M,N
P24,30 R,L,M
SAE 177-4 (F) WITH COUPLING 50-4

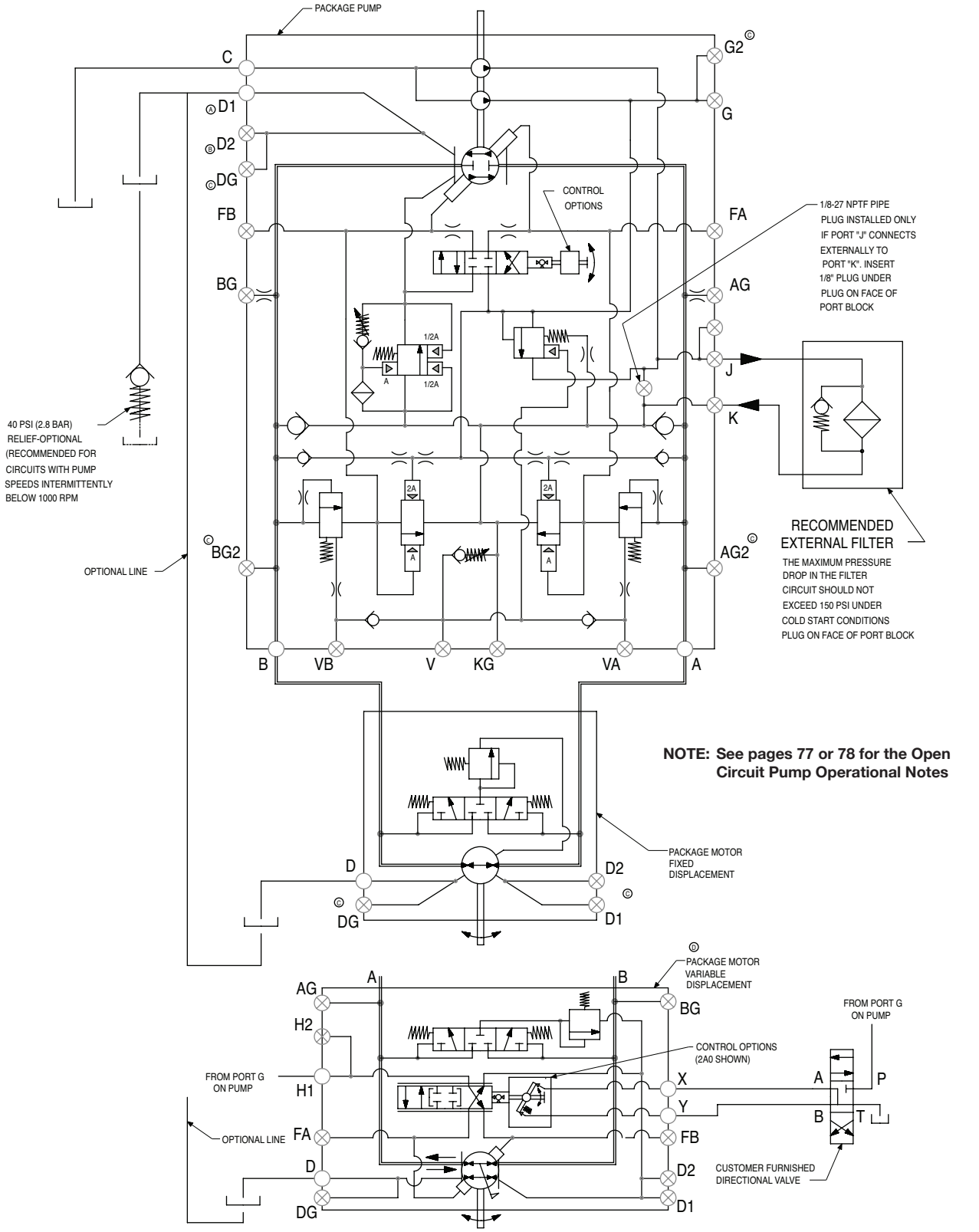


Series 6, 7 & 8 Information



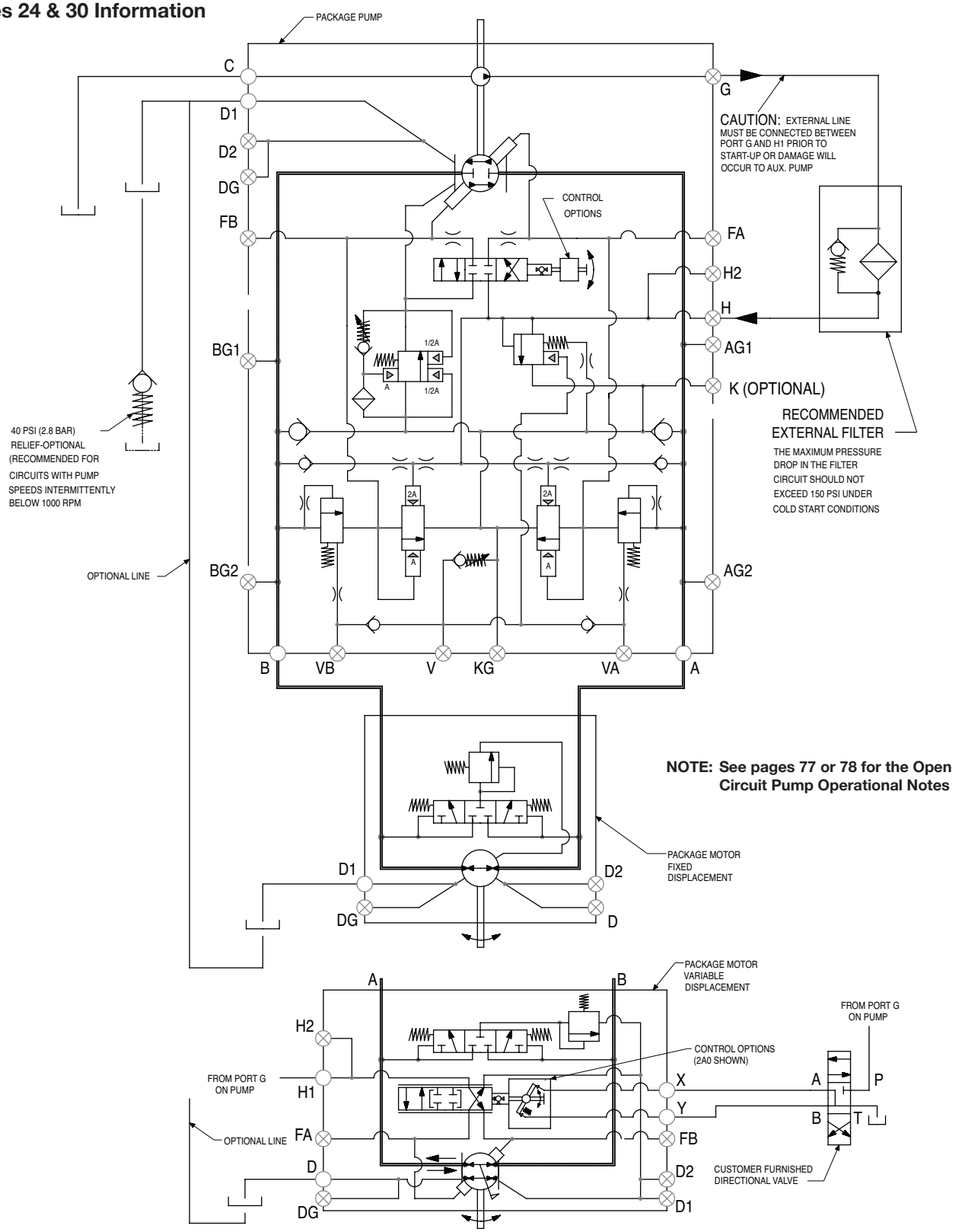
NOTE: See pages 77 or 78 for the Open Circuit Pump Operational Notes

Series 11 & 14 Information

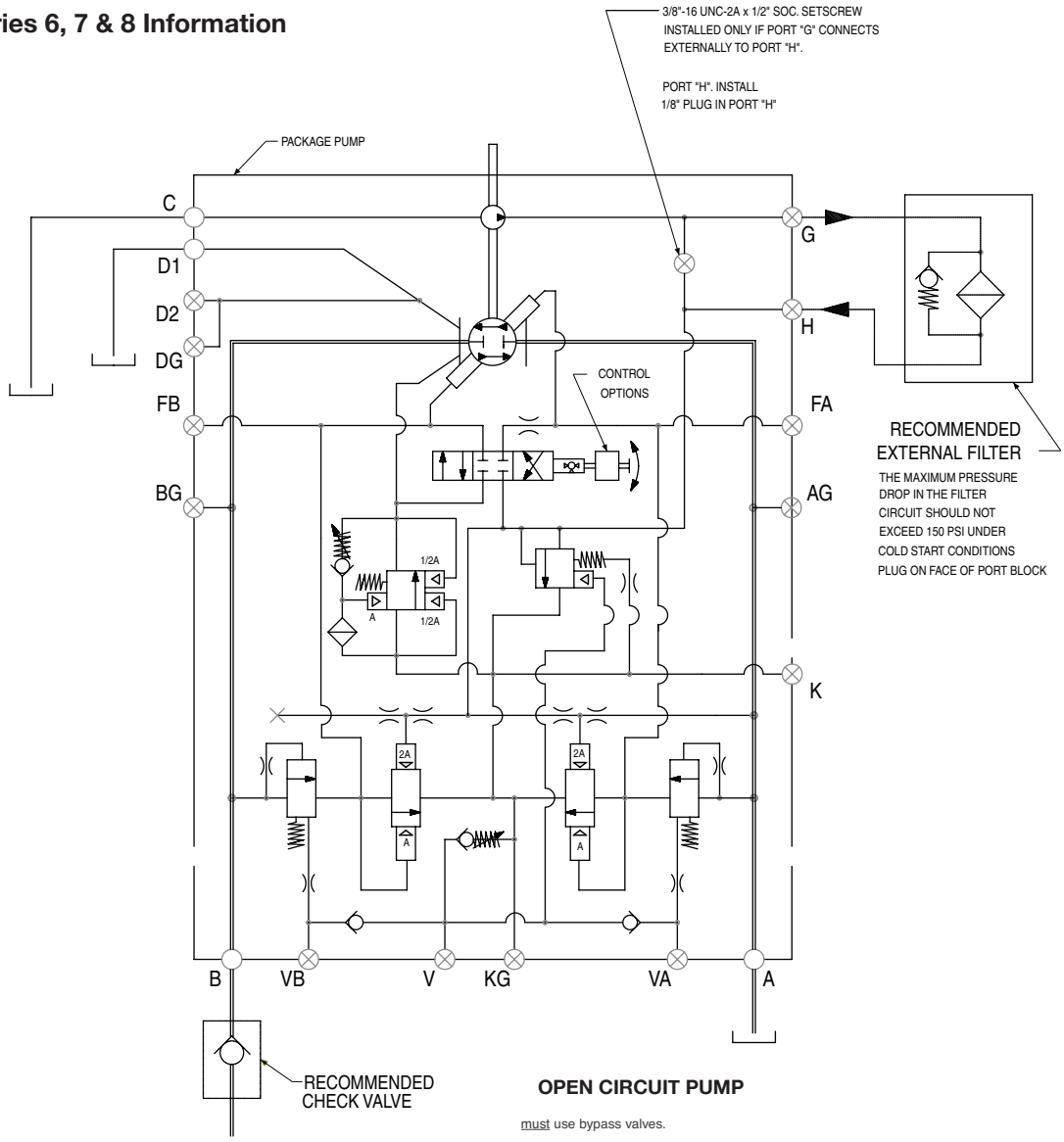


NOTE: See pages 77 or 78 for the Open Circuit Pump Operational Notes

Series 24 & 30 Information



Series 6, 7 & 8 Information



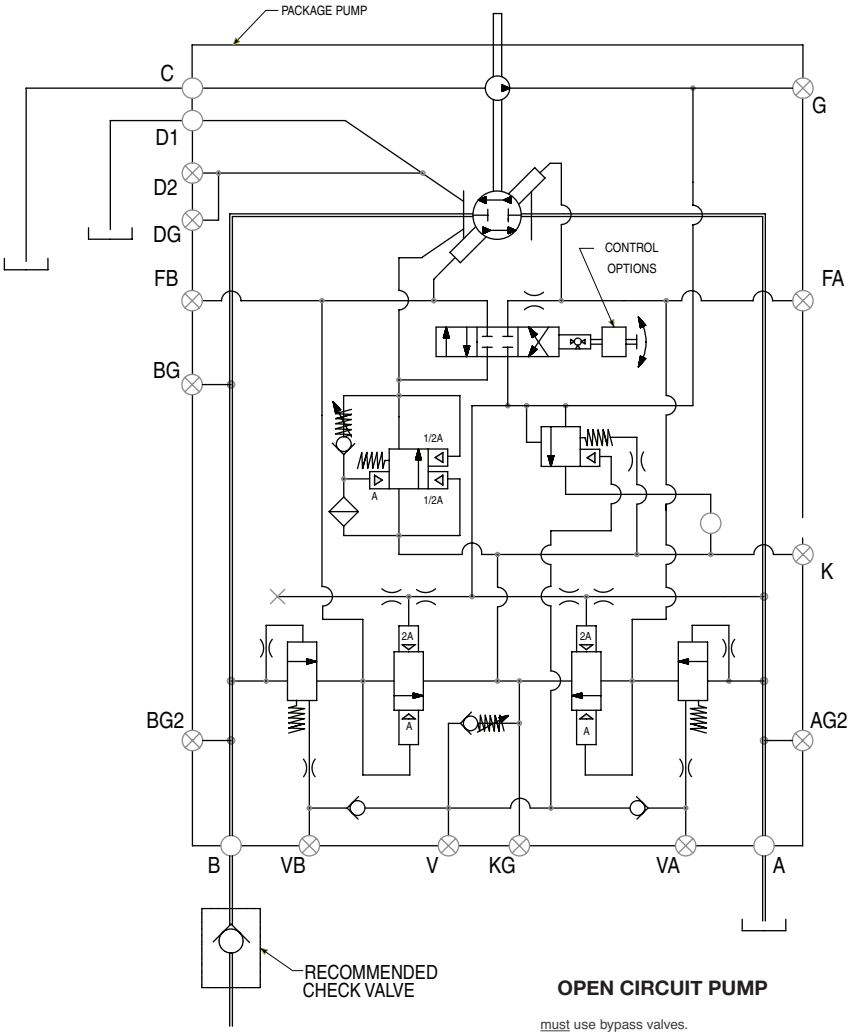
OPEN CIRCUIT PUMP

must use bypass valves.

te inlet pressure must be increased for the following fluids:
a. 25% for water glycols
b. 35% for phosphate esters

k valve in the outlet line between the pump and load is highly recommended
ses, accumulators or other components may decompress when pump is
the compensator.

Series 11 & 14 Information



OPEN CIRCUIT PUMP

must use bypass valves.

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a. 25% for water glycols
b. 35% for phosphate esters

:k valve in the outlet line between the pump and load is highly recommended
ses, accumulators or other components may decompress when pump is
the compensator.

GOLD CUP® PUMP CONTROL COMBINATIONS

102	2M2 *00	2N2 *00	402	7D6 *00	8A2 *00	8C2 *00	9A2 *00
104	2M2 *01	2N2 *01	404	7D6 *01	8A2 *01	8C2 *01	9A2 *01
106	2M2 *02	2N2 *02	406		8A2 *02	8C2 *02	
	2M2 *03	2N2 *03			8A2 *03	8C2 *03	9A4 *00
108	2M2 *04	2N2 *04	408		8A2 *04		9A4 *01
	2M2 *05	2N2 *05				8C4 *00	
2A2	2M2 *06	2N2 *06	4A2	7D8 *00	8A4 *00	8C4 *01	9A6 *00
2A4	2M2 *07	2N2 *07	4A4	7D8 *01	8A4 *01	8C4 *02	9A6 *01
2A6			4A6		8A4 *02	8C4 *03	
	2M4 *00	2N4 *00		7F6 *01	8A4 *03		9A7*00
2A8	2M4 *01	2N4 *01	4A8		8A4 *04	8C6 *00	
	2M4 *02	2N4 *02		7F8 *01		8C6 *01	
2H2	2M4 *03	2N4 *03	4B2		8A6 *00	8C6 *02	9A8 *00
2H4	2M4 *04	2N4 *04	4B4	7J6 *00	8A6 *01	8C6 *03	9A8 *01
2H6	2M4 *05	2N4 *05	4B6	7J6 *01	8A6 *02		
	2M4 *06	2N4 *06			8A6 *03		9C2 *00
2H8	2M4 *07	2N4 *07	4B8		8A6 *04		9C2 *01
				7Q8 *00			
	2M6 *00	2N6 *00	4C2	7Q8 *01			9C4 *00
	2M6 *01	2N6 *01	4C4	7J8 *00			9C4 *01
	2M6 *02	2N6 *02	4C6	7J8 *01		8C8 *00	
	2M6 *03	2N6 *03				8C8 *01	9C6 *00
	2M6 *04	2N6 *04	4C8	7K6 *01		8C8 *02	9C6 *01
	2M6 *05	2N6 *05				8C8 *03	
	2M6 *06	2N6 *06		7K8 *01	8A8 *00		
	2M6 *07	2N6 *07		7R8 *01	8A8 *01		
					8A8 *02		
					8A8 *03		9C8 *00
					8A8 *04		9C8 *01
	2M8 *00	2N8 *00					
	2M8 *01	2N8 *01					
	2M8 *02	2N8 *02					
	2M8 *03	2N8 *03					
	2M8 *04	2N8 *04					
	2M8 *05	2N8 *05					
	2M8 *06	2N8 *06					
	2M8 *07	2N8 *07					

- Unless otherwise specified on purchase order, the following **factory setting** will be used.

Maximum Stops: Full Displacement (both sides of center pumps)
Minimum Stop: Zero Displacement (“V” units & 2A controls only)
Pressure Compensator Override: 1000 psi nominal
Torque Limiter (**4): P6 @ 1800 rpm = 60 hp nominal
(40% of full torque) P7 @ 1800 rpm = 72.5 hp nominal
P8 @ 1800 rpm = 80 hp nominal
P11 @ 1800 rpm = 110 hp nominal
P14 @ 1800 rpm = 140 hp nominal
P24 @ 1800 rpm = 240 hp nominal
P30 @ 1800 rpm = 300 hp nominal

HY28-2667-01/GC/NA,EU 8/2020

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