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- 100% Interchange With Original Parker
- One Year Warranty, Competitive Price
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- Parts Model: PAVC33_PAVC38_PAVC65 PAVC100



Bulletin PM3240-22

Service Parts Guide

Model PAVC 100**22**

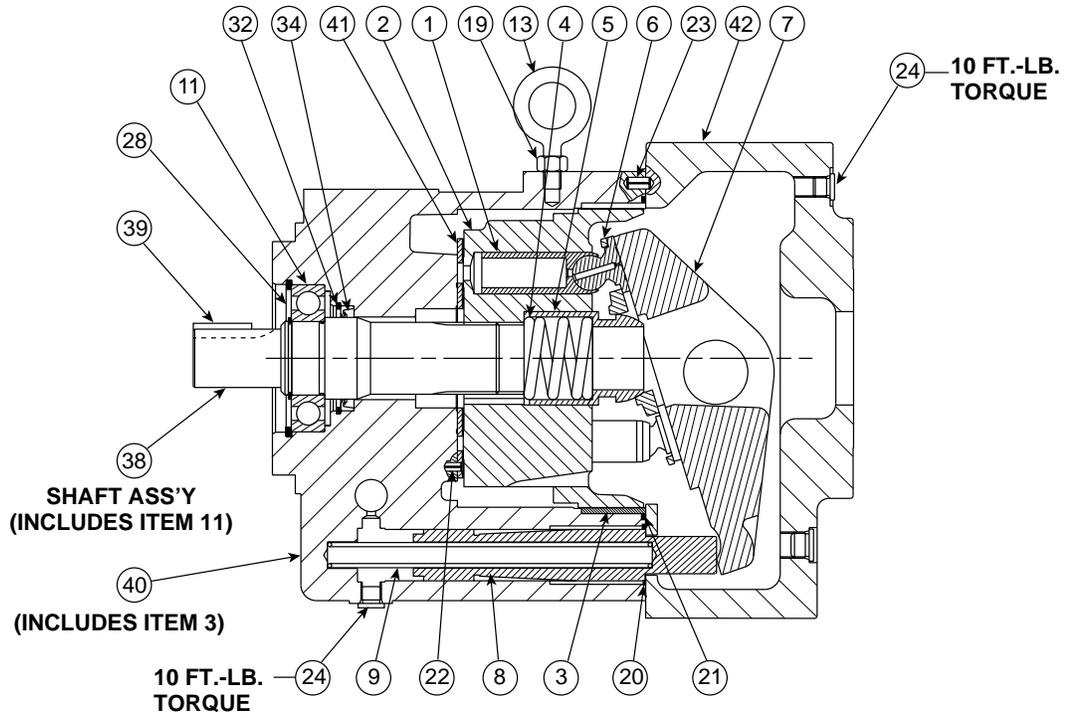
Effective: April, 1998



PAVC 100**22 Series
Variable Volume
Piston Pump**

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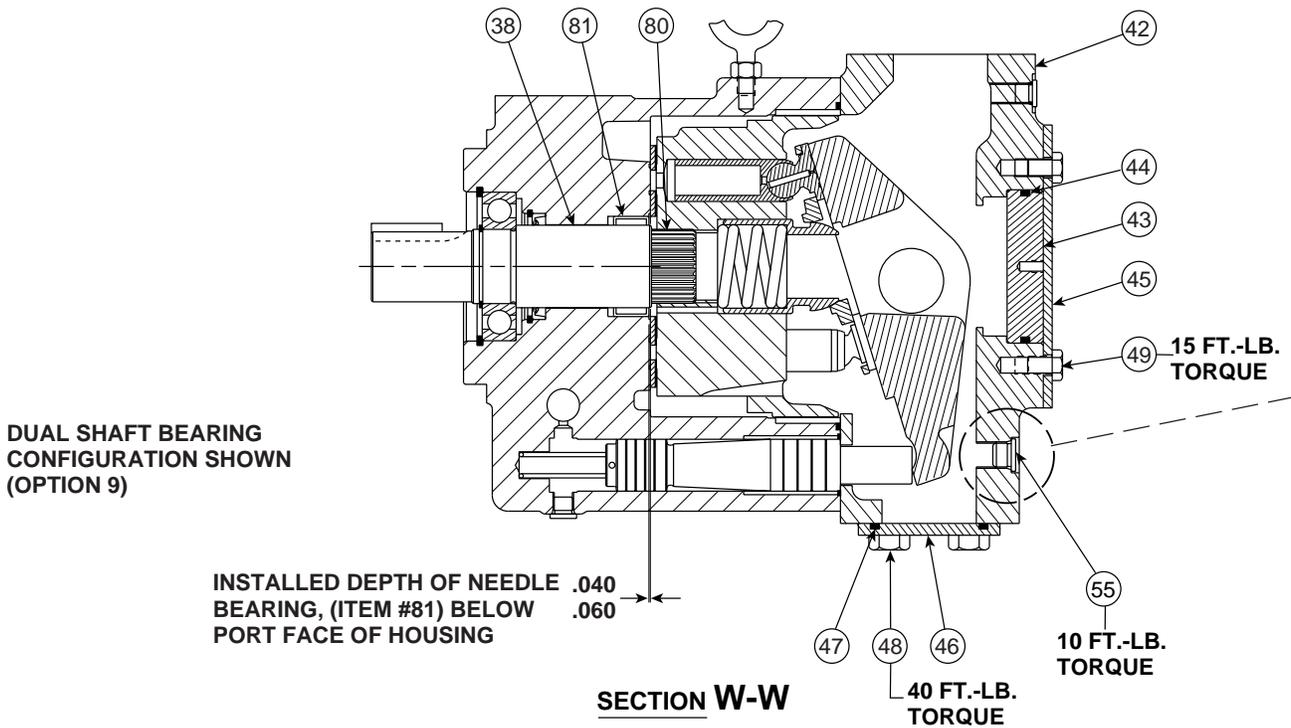
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SECTION W-W

NOTE:

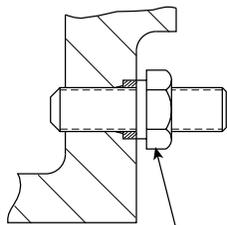
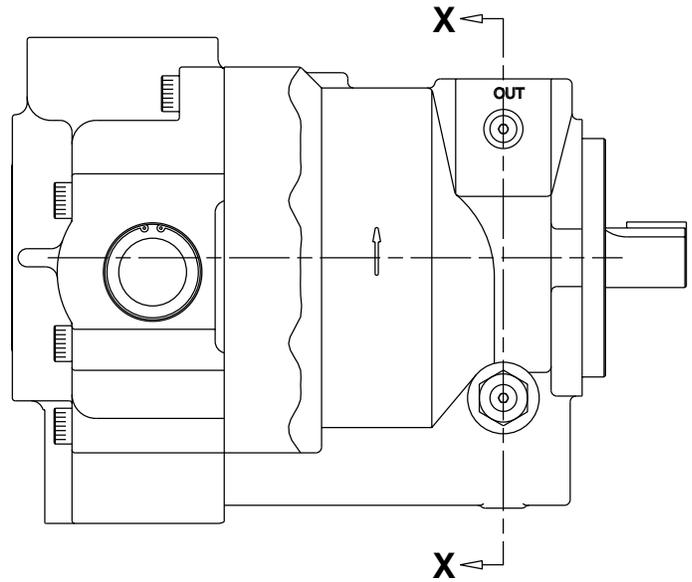
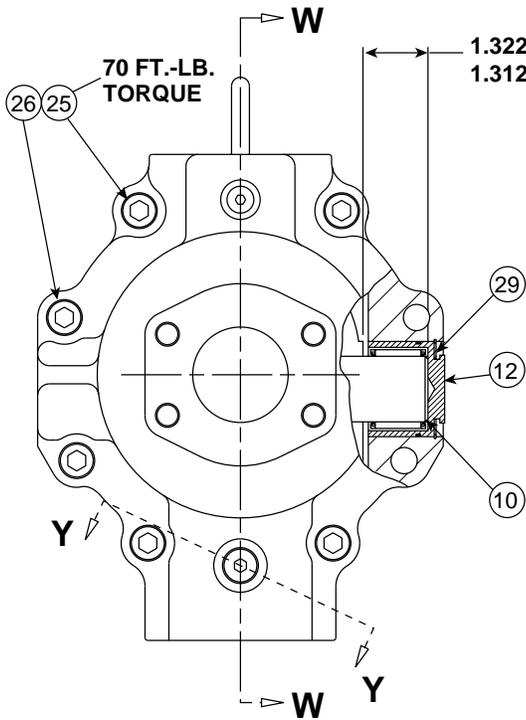
1. PUMP SHOWN WITH INLET PORT OPTION "OMIT" (REAR PORT)



SECTION W-W

NOTE:

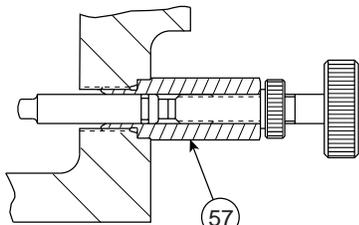
1. PUMP SHOWN WITH INLET PORT OPTION "2" (TOP/BOTTOM PORTS).



56

25-30 FT.-LB. TORQUE

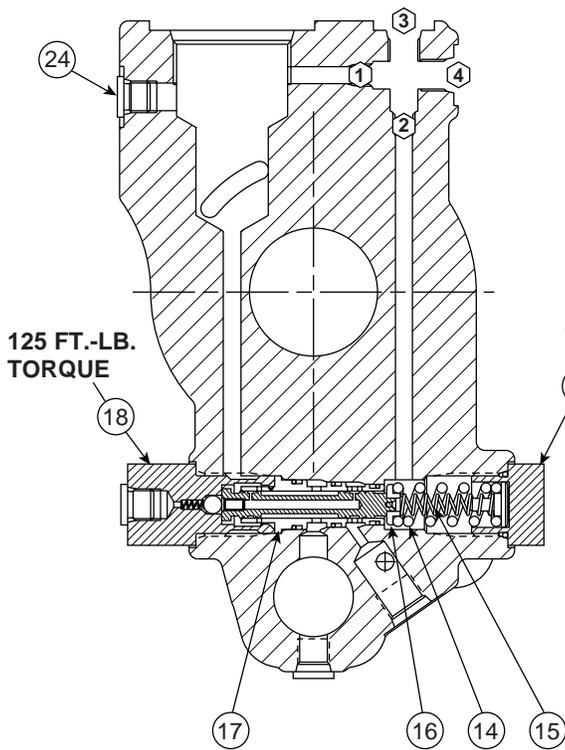
MAXIMUM VOLUME STOP VARIATION - 2



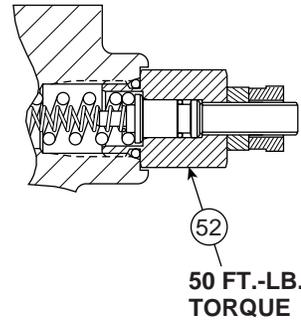
57

17 FT.-LB. TORQUE

MAXIMUM VOLUME STOP VARIATION - 5



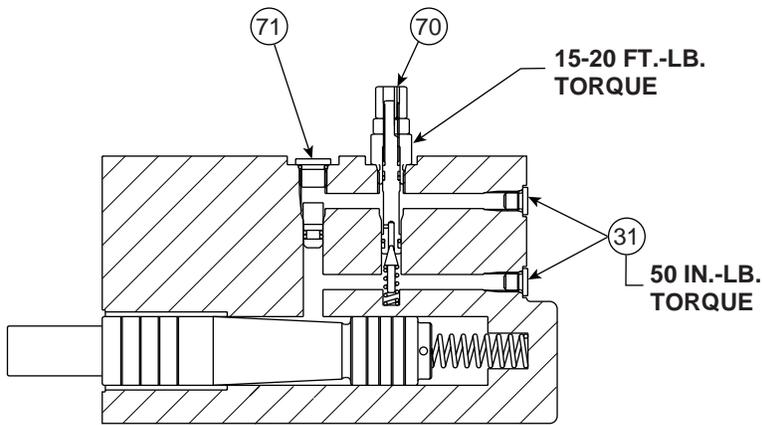
SECTION X-X



**ADJUSTABLE
DIFFERENTIAL
VARIATION - 4**

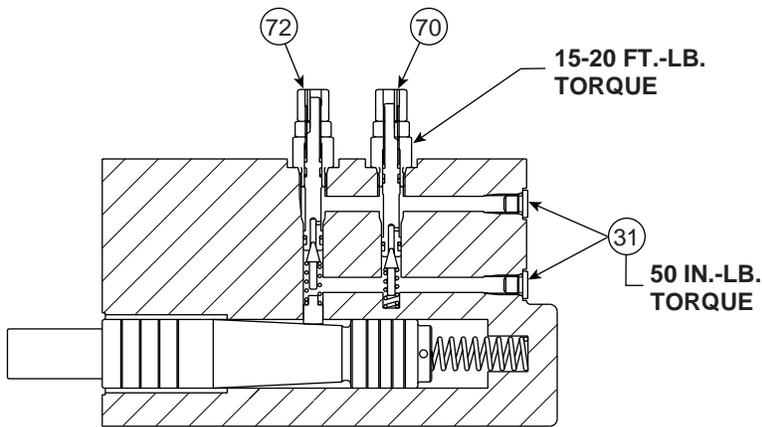
**NON-ADJ. DIFFERENTIAL
VARIATION - OMIT**

CONTROL OPTION	POSITION			
	1	2	3	4
OMIT	OPEN	690870	108X4	108X4
A	102X1	690870	OPEN	108X4
C	102X1	690870	OPEN	108X4
H	OPEN	690870	108X4	108X4
M	690870	OPEN	OPEN	108X4
ME	102X1	690870	OPEN	108X4
S	690870	OPEN	OPEN	108X4
SE	102X1	690870	OPEN	108X4
AM	102X1	690870	786635	OPEN
CM	102X1	690870	786635	OPEN
HM	690870	OPEN	OPEN	108X4



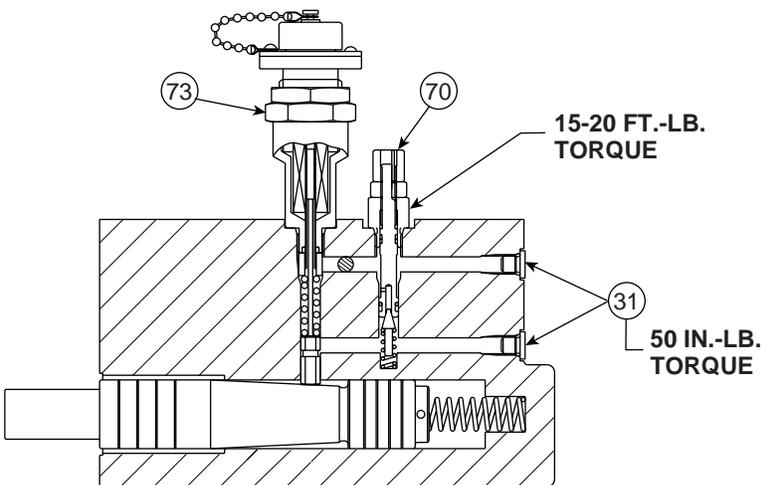
SECTION Y-Y

CONTROL OPTIONS
 "OMIT", "M", "A" AND "AM"



SECTION Y-Y

CONTROL OPTIONS
 "H", "C", "HM" AND "CM"



SECTION Y-Y

CONTROL OPTIONS
 "S" AND "SE"

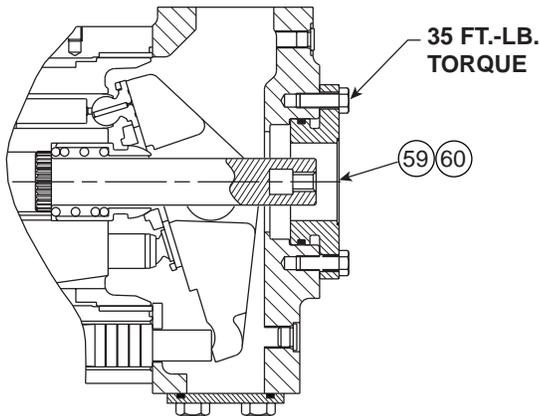
THRU-SHAFT PUMP OPTIONS

VARIATION “*A1” & “*A3”

PILOT DIAMETER: 2.000
 SHAFT LENGTH: 1.00-1.50
 SHAFT: .500 X .125 KEY (*A1)
 SHAFT: 9 TOOTH 20/40 PITCH (*A3)

KIT PART NUMBERS:

“6A1” - 787851
 “6A3” - 786925
 “9A1” - 788628
 “9A3” - 788629

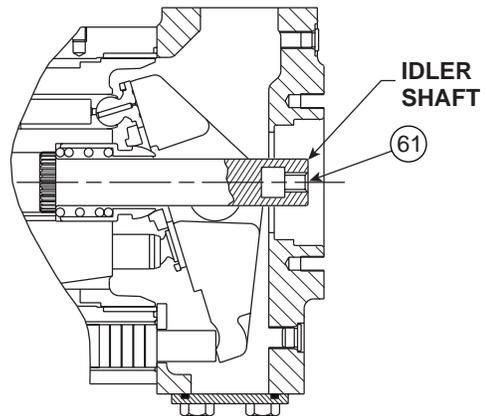


VARIATION “*A4”

PILOT DIAMETER: 3.250
 SHAFT LENGTH: 1.25-1.40
 SHAFT: 9 TOOTH 16/32 PITCH

KIT PART NUMBERS:

“6A4” - 786926
 “9A4” - 788630

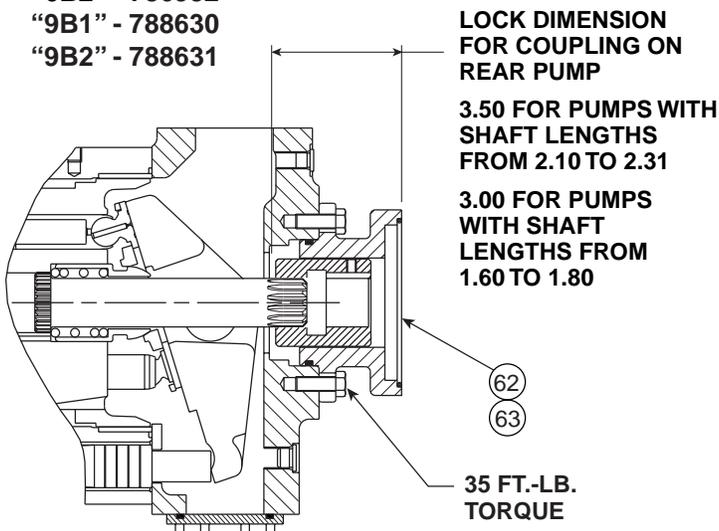


VARIATION “*B1” & “*B2”

PILOT DIAMETER: 4.000
 SHAFT LENGTH: 1.62-2.31
 SHAFT (*B1): .875 X .250 KEY
 SHAFT (*B2): 1.000 X .250 KEY

KIT PART NUMBERS:

“6B1” - 786927
 “6B2” - 786932
 “9B1” - 788630
 “9B2” - 788631

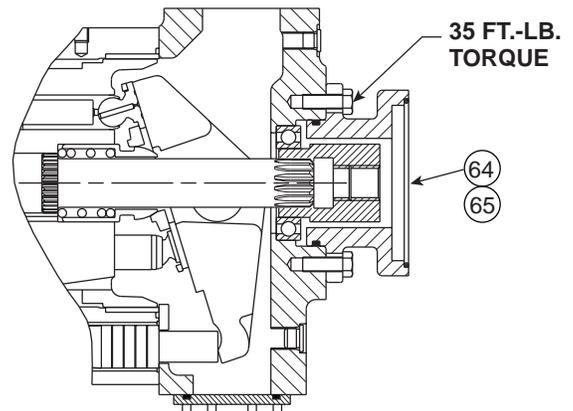


VARIATION “*B3” & “*B4”

PILOT DIAMETER: 4.000
 SHAFT LENGTH: 1.62-2.31
 SHAFT (*B3): 13 TOOTH 16/32 PITCH
 SHAFT (*B4): 15 TOOTH 16/32 PITCH

KIT PART NUMBERS:

“6B3” - 787076
 “6B4” - 787077
 “9B3” - 788633
 “9B4” - 788634



VARIATION “*C2”

PILOT DIAMETER: 5.000
SHAFT LENGTH: 1.80-2.20
SHAFT: 1.250 X .312 KEY

KIT PART NUMBERS:

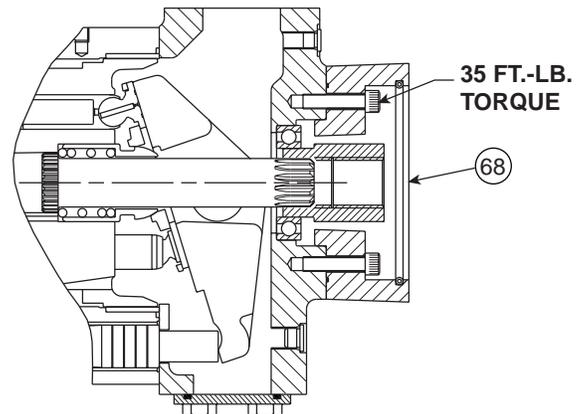
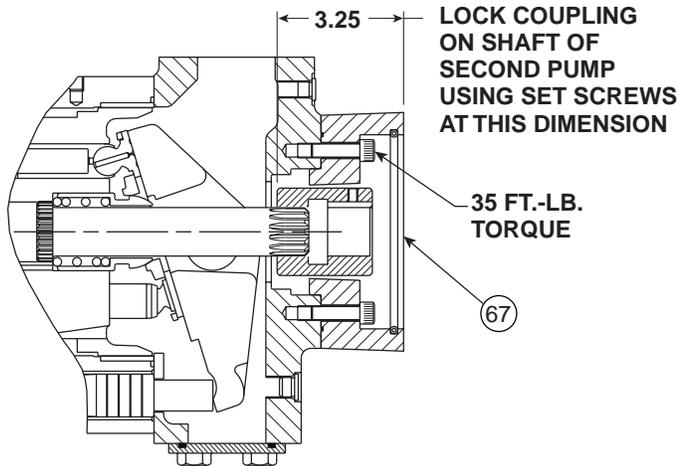
“6C2” - 786928
“9C2” - 788635

VARIATION “*C3”

PILOT DIAMETER: 5.000
SHAFT LENGTH: 1.80-2.20
SHAFT: 14 TOOTH 12/24 PITCH

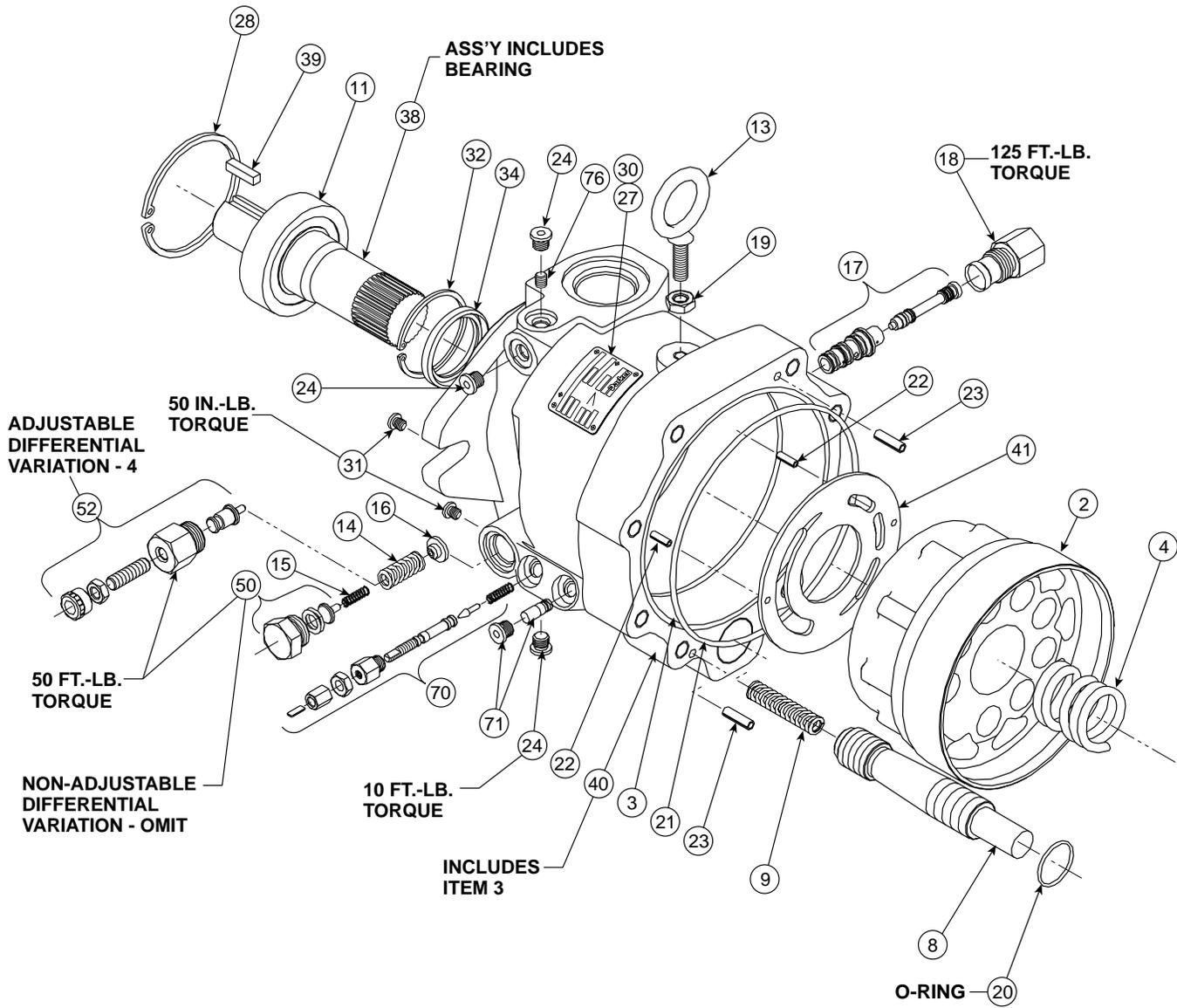
KIT PART NUMBERS:

“6C3” - 787078
“9C3” - 788636



NOTE:

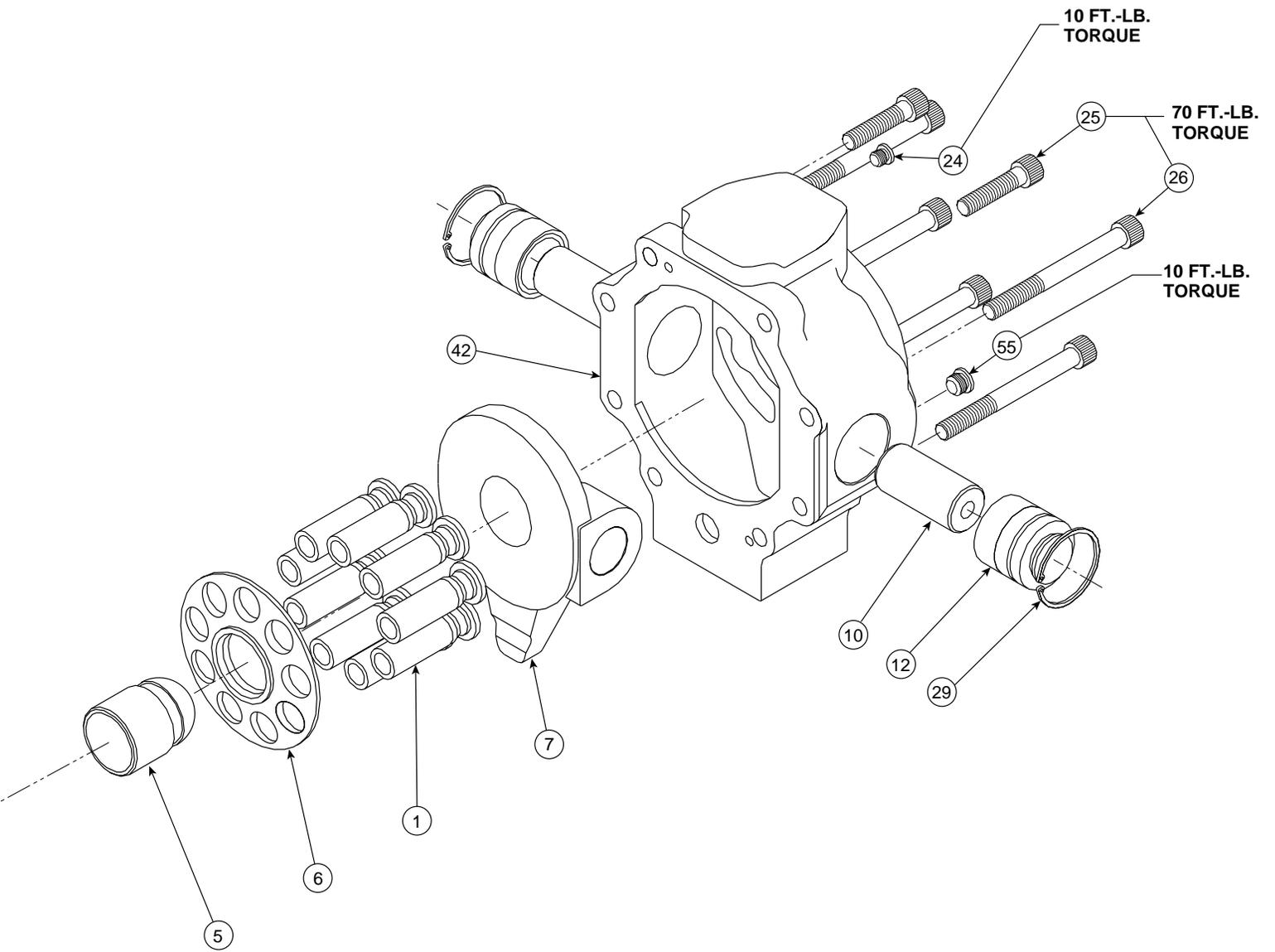
1. IDLER SHAFT INSTALLED THROUGH FRONT OF PUMP.
(REMOVE INPUT SHAFT, INSTALL IDLER, RE-INSTALL INPUT SHAFT.)



NOTES:

1. PUMP SHOWN IN CLOCKWISE ROTATION, CONTROL OPTION "OMIT", AND REAR INLET PORT. FOR COUNTERCLOCKWISE ROTATION OUTLET PORT, CONTROL DRAIN AND PUMP CONTROLS WILL BE ON OPPOSITE SIDE.
2. SEAL KIT – SK PAVC100 22
3. ROTATING GROUP KIT – RRK PAVC100

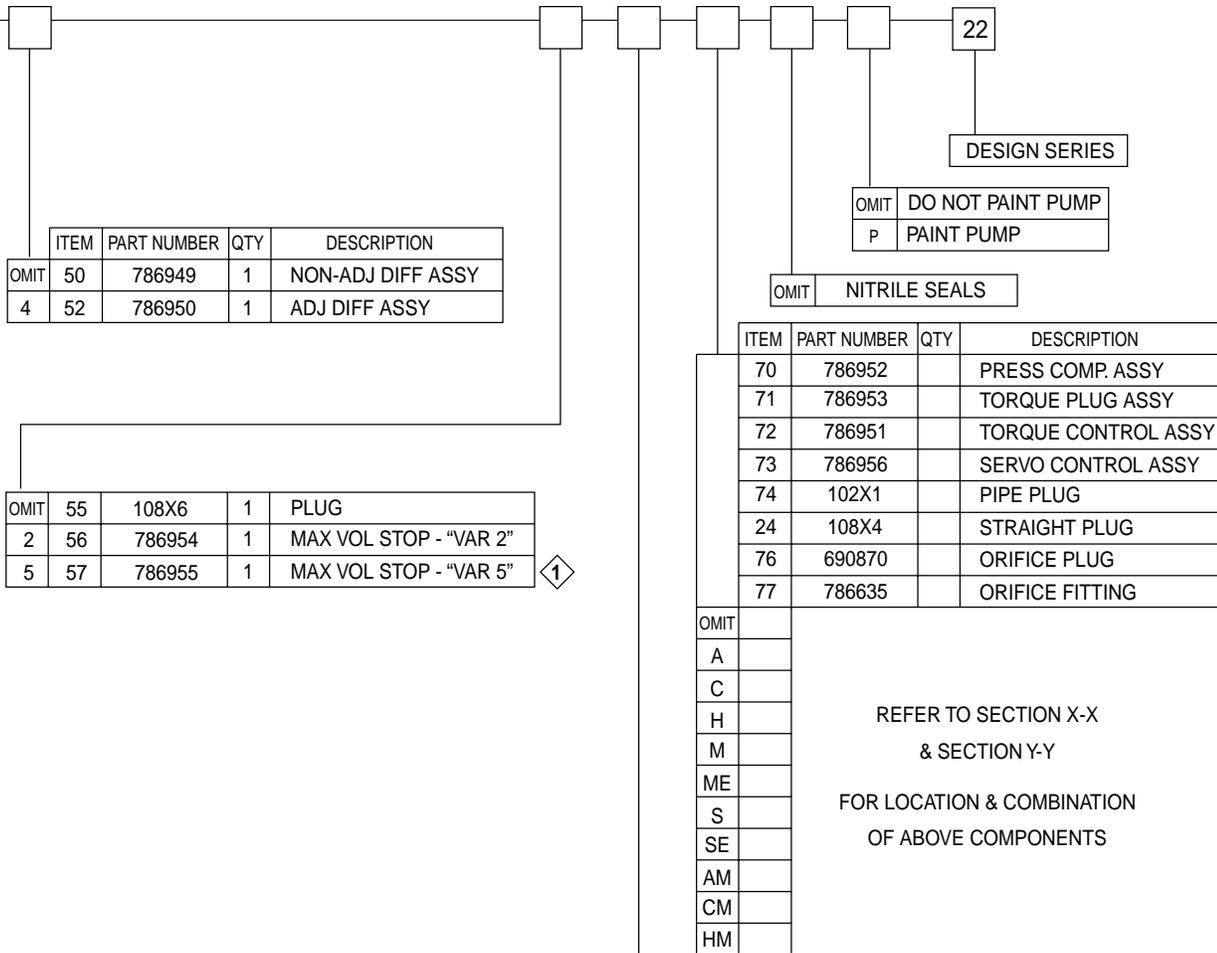
	22
	R – CW ROTATION
	L – CCW ROTATION





NOTE:

- ① VARIATION "5" NOT AVAILABLE WITH VARIATION "6" (THRU-SHAFT).
- ② USE P/N 788516-04 IF ISO 6149 (PORTING OPTION 8) IS SPECIFIED.
- 3. SEAL KIT P/N: SK PAVC100 22.
- 4. ROTATING GROUP KIT RRPAPVC100 R22 (RIGHTHAND (CW) ROTATION).
RRKPAVC100 L22 (LEFTHAND (CCW) ROTATION).



	ITEM	PART NUMBER	QTY	DESCRIPTION	
OMIT	50	786949	1	NON-ADJ DIFF ASSY	
	4	52	786950	1	ADJ DIFF ASSY

	ITEM	PART NUMBER	QTY	DESCRIPTION	
OMIT	55	108X6	1	PLUG	
	2	56	786954	1	MAX VOL STOP - "VAR 2"
	5	57	786955	1	MAX VOL STOP - "VAR 5"

ITEM	PART NUMBER	QTY	DESCRIPTION
70	786952		PRESS COMP. ASSY
71	786953		TORQUE PLUG ASSY
72	786951		TORQUE CONTROL ASSY
73	786956		SERVO CONTROL ASSY
74	102X1		PIPE PLUG
24	108X4		STRAIGHT PLUG
76	690870		ORIFICE PLUG
77	786635		ORIFICE FITTING

OMIT			
A			
C			
H			
M			
ME			
S			
SE			
AM			
CM			
HM			

REFER TO SECTION X-X
& SECTION Y-Y
FOR LOCATION & COMBINATION
OF ABOVE COMPONENTS

	ITEM	PART NUMBER	QTY	DESCRIPTION	
OMIT				NO THRU- SHAFT OPTION	
	6A1	59	787851	1	ADAPTER KIT "AA"
	6A3	60	786925	1	ADAPTER KIT "AA"
	6A4	61	786926	1	ADAPTER KIT "A"
	6B1	62	786927	1	ADAPTER KIT "B"
	6B2	63	786932	1	ADAPTER KIT "BB"
	6B3	64	787076	1	ADAPTER KIT "B"
	6B4	65	787077	1	ADAPTER KIT "BB"
	6C2	67	786928	1	ADAPTER KIT "C"
	6C3	68	787078	1	ADAPTER KIT "C"
	9A1	59	788628	1	ADAPTER KIT "AA"
	9A3	60	786629	1	ADAPTER KIT "AA"
	9A4	61	786630	1	ADAPTER KIT "A"
	9B1	62	788631	1	ADAPTER KIT "B"
	9B2	63	788632	1	ADAPTER KIT "BB"
	9B3	64	788633	1	ADAPTER KIT "B"
	9B4	65	788634	1	ADAPTER KIT "BB"
	9C2	67	788635	1	ADAPTER KIT "C"
	9C3	68	788636	1	ADAPTER KIT "C"

SERVICE NOTES:

- Use a clean lubricant (compatible with the working fluid) on all pump components during assembly.
- Thoroughly clean the reservoir, suction lines, suction strainer, drain lines, etc. before re-installing the pump. Most premature pump failures occur when contaminants from a previous failure have not been completely removed from the system, or cause for previous failure is still present (i.e. water in oil, filter bypassing, etc.).
- Always fill the case with clean fluid before starting a new or serviced pump (fill as high as inlet port will allow on a PAVC style pump). For flooded suction, purge air from suction lines by cracking the inlet fitting or vent plug on pump body. This should prevent an airlock condition and allow for faster priming. Starting the pump slowly by jogging (or turning over engine without allowing it to start) will help the pump prime and makes it easier to determine when priming has occurred.
- Check for proper shaft rotation if there is a possibility it may have changed during a system rebuild.
- Start pump with an open circuit whenever possible. Reduce the compensator to its minimum setting during start-up. Cycle the pump on and off stroke while increasing the compensator to its required setting. This will assist in break-in of new components and help purge air from the case.

BASIC TROUBLESHOOTING:

Pump Won't Prime **Note:** Pump should prime within 30 seconds. If it does not, **STOP!**

- Check for proper drive rotation.
- Make sure pump shaft is turning (i.e. key at coupling hubs is engaged).
- Make sure reservoir is full.
- Check for major sources of a suction leak (vent plug open, shaft seal missing (PAVC), flange not tight, pinched o-ring at flange or pump housing, etc.).

Can't Build Any Pressure

- Make sure pump is primed.
- Check alignment, especially on PAVC pumps without "9" option.
- Make sure system is not an open circuit. (A pump produces *flow*, not pressure. It can only *limit* pressure when the system requirement is higher than the pump compensator setting.)

Can Only Build A Few Hundred PSI

- Compensator is backed all the way out.
- Remote/load sense line is vented.
- Control orifice is plugged.
- Pressure control dart is lodged open.
- Torque control plug missing (PAVC).
- Wrong compensator spool (PVP).

Pump Won't Compensate

- Differential spring over-compressed (i.e. spring guide dislocated).
- Drain line blocked (PAVC).
- Pressure control stem vent hole is plugged.
- Spool travel hindered.
- Control orifice missing (PAVC).
- Saturation orifice missing in load sense circuit.

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7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitations, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

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9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

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