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Gold Cup Kits & Assemblies

P24 & P30

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Complete Seal Kits Contain All Seals for The Following:

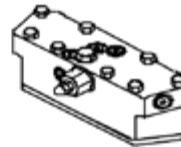
1. Main Pump
2. Valve Block
3. Input/Output Controls
4. Shaft Seal
5. Hot Oil Shuttle (where applicable)
6. Vane Pump (where applicable)



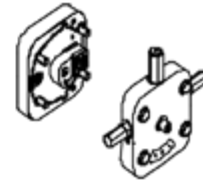
Note: All **BOLD** seal kits are Buna/Nitrile (0)

All Valve Blocks

Seal Kit **S23-17338-⊕K**
Repair Kit **S23-17563-⊕K** (Not HI IQ)



All Input and Output Controls **S23-17000-⊕K**



Seal Kits for P24,30 Gold Cup Pumps

CIPR	MOD.	SERIES	SHAFT TYPE	ROT.	COMPLETE SEAL KIT	SHUTTLE	SHAFT SEAL KIT
24,30	E & B	P	2,3	R & L	S23-18006-⊕K	N/A	S23-11516-⊕K
		R			S23-18016-⊕K		
		X			S23-11514-⊕K		
		P	7,8	R	S23-17038-⊕K		S23-16332-⊕K
		P	7,8	L	S23-17039-⊕K		S23-16333-⊕K
		R	7,8	R	S23-18017-⊕K		S23-16332-⊕K
		R	7,8	L	S23-18018-⊕K		S23-16333-⊕K
		X	7,8	R	S23-18022-⊕K		S23-16332-⊕K
		X	7,8	L	S23-18023-⊕K		S23-16333-⊕K
		S	2,3	R & L	S23-17040-⊕K	S23-15089-⊕K	S23-11516-⊕K
		L			S23-18019-⊕K		
		S	7,8	R	S23-17041-⊕K		S23-16332-⊕K
		S	7,8	L	S23-17042-⊕K		S23-16333-⊕K
		L	7,8	R	S23-18020-⊕K		S23-16332-⊕K
		L	7,8	L	S23-18021-⊕K		S23-16333-⊕K

Seal Kits for P24,30 Gold Cup Pumps with T6C Auxiliary Pumps

CIPR	MOD.	SERIES	SHAFT TYPE	ROT.	COMPLETE SEAL KIT	SHUTTLE	SHAFT SEAL KIT
24,30	E & B	S	2,3	R & L	S23-11600-⊕K	S23-15089-⊕K	S23-11516-⊕K
			7,8	R	S23-15696-⊕K		S23-16332-⊕K
				L	S23-15697-⊕K		S23-16333-⊕K

Note: Add -0 for Buna/Nitrile, -4 for EPDM or -5 for Viton in place of ⊕

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GOLD CUP MOTOR SEAL KITS

M	24	F/G "D" MOD	2,3	N/A	S23-15128-⊕K (5)		S23-11516-⊕K (6)
M	30	F/G "A" MOD	2,3	N/A	S23-15128-⊕K (5)		S23-11516-⊕K (6)
M	24	H/V "D" MOD	2,3	S23-17747-⊕K (3,4)	S23-05994-⊕K (5)	S23-17000-⊕K	S23-11516-⊕K (6)
M	30	H/V "A" MOD	2,3	S23-17747-⊕K (3,4)	S23-05994-⊕K (5)		S23-11516-⊕K (6)

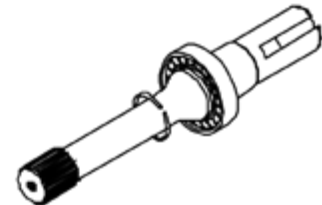
Key: M = Motor, P = Pump

Rotation: R, L & N

NOTE: Add -4 for EPR Rubber or -5 for Viton in place of ⊕

Shaft and Bearing Assemblies - Drive Shafts (Keyed and Splined)

1. Drive Shaft
2. Bearing
3. Retaining Rings for Bearing
4. Key Where Applicable



P24,30		P24,30	
P24/30/P/S SAE-F SPLINED	S23-12474-0K	P24/30/P/S SAE-F SPLD	S23-15386-0K
P24/30/P/S SAE-F KEYED	S23-12475-0K	P24/30/P/S SAE-F KEYED	S23-15387-0K
P24/30/R/L SAE-F SPLINED	S23-16364-0K	P24/30/R/L SAE-F SPLD	S23-16475-0K
P24/30/R/L SAE-F KEYED	S23-16362-0K	P24/30/R/L SAE-F KEYED	S23-16473-0K
M24/30/F/G/H/V SAE-F SPLINED	S23-12474-0K		
M24/30/F/G/H/V SAE-F KEYED	S23-12475-0K		

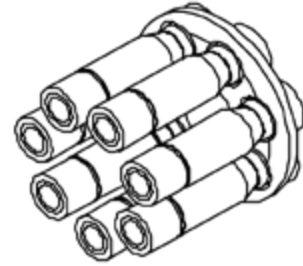
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Piston & Shoes

1. Pistons, Shoes & Retainer

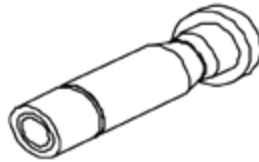


M24, M30, P24 & P30					
P24F/P/R/S	S13-44470-0K	M24H/V/F/G	S13-44470-0K		
P30F/P/R/S	S23-12684-0K	M30H/V/F/G	S23-12684-0K		

Piston & Shoe Sets (no retainer)

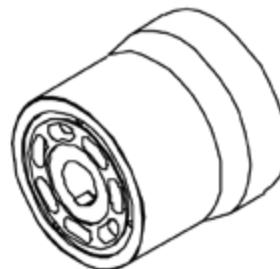
9 Piston & shoes

P24, P30, M24 & M30	
P24, M24	S23-17469-0K
P30, M30	S23-17470-0K



Barrel and Sleeve Assembly

P24/P30, M23/30	
P24F/P/R/S, M24H/V/F/G	S23-12091-0K
P30F/P/R/S, M30H/V/F/G	S23-12170-0K



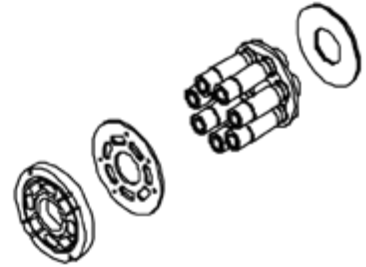
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Rotating Group (Minor)

1. Face Plate
2. Pistons, Shoes & Retainer
3. Creep Plate
4. Port Plate

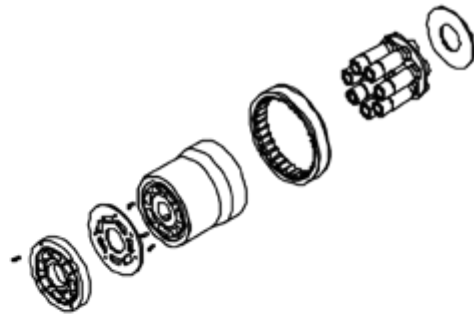


P24,30					
P24F/P/R/S	CW	S23-17429-0K			
P24F/P/R/S	CCW	S23-17430-0K			
P30F/P/R/S	CW	S23-17431-0K			
P30F/P/R/S	CCW	S23-17432-0K			
M24H/V/F/G		S23-17433-0K			
M30H/V/F/G		S23-17434-0K			

Note: CW = Clockwise or Right Hand (RH), CCW = Counter Clockwise or Left Hand (LH)

Rotating Group (Major)

1. Barrel Bearing
2. Barrel & Sleeves
3. Face Plate
4. Face Plate & Port Plate Locating Pins
5. Pistons, Shoes & Retainer
6. Creep Plate
7. Port Plate



P24,30					
P24F/P/R/S	CW	S23-17111-0K			
P24F/P/R/S	CCW	S23-17112-0K			
P30F/P/R/S	CW	S23-17113-0K			
P30F/P/R/S	CCW	S23-17114-0K			
M24H/V/F/G		S23-17115-0K			
M30H/V/F/G		S23-17116-0K			

Note: CW = Clockwise or Right Hand (RH), CCW = Counter Clockwise or Left Hand (LH)

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Barrel Holddown

1. Auxiliary Shaft
2. Holddown Spring

P24,30					
Without Rear Drive					
P24P	S23-17253-0K	M24H/V/F/G	S23-17255-0K	P24F	S23-17255-0K
P30P	S23-17254-0K	M30H/V/F/G	S23-17257-0K	P30F	S23-17257-0K
With Rear Drive					
P24P/S	S23-17255-0K				
P30P/S	S23-17256-				

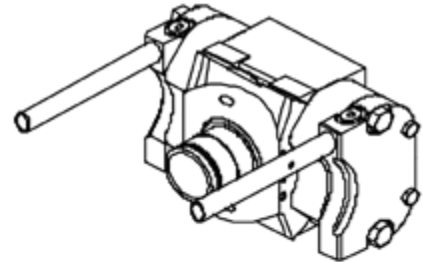
Note: These part numbers contain the new design auxiliary drive shaft. It is not compatible with the old coupling. See PI-1207

Cam and Cradle Stroking Assemblies

1. Cam and Cradle Stroking Assembly
2. Override Tubes

Note: Viton seals as standard

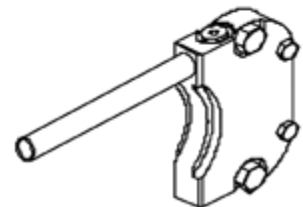
P24,P30P/R/S	
CW	S23-17242-5K
CCW	S23-17243-5K
M24,M30H/V	
BI-DIR	S23-17242-5K



Cam & Stroking Rotation Conversions (CW to CCW)

1. Vane Chamber Covers (2)
2. Override Tubes (2)

P24 & P30	CW to CCW	S23-17233-0K
	CCW to CW	S23-17315-0K



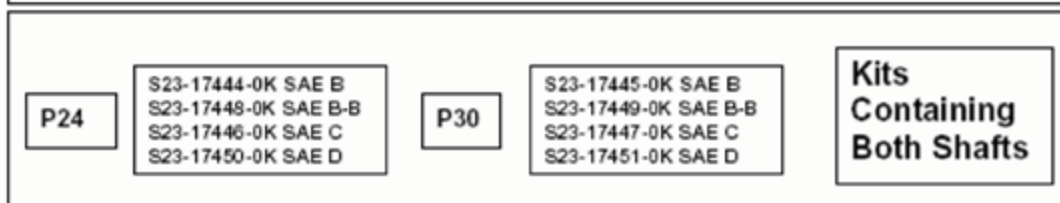
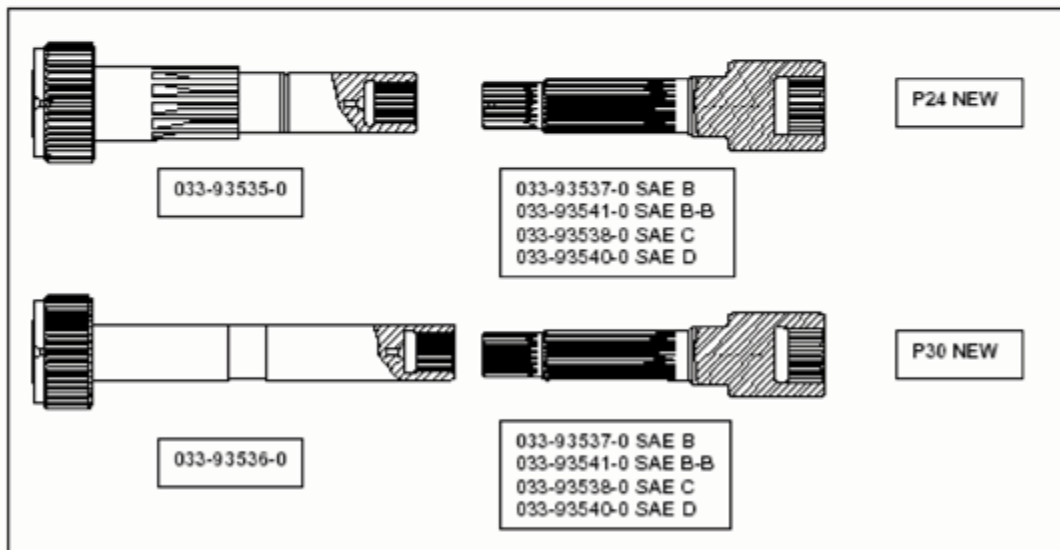
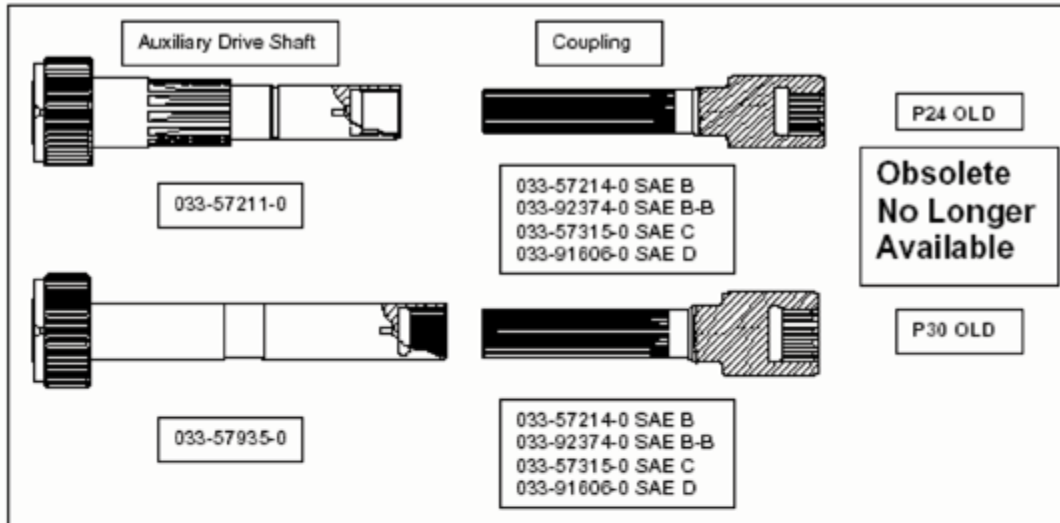
Note: CW = Clockwise or Right Hand (RH), CCW = Counter Clockwise or Left Hand (LH)

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Auxiliary Drive Shaft Changes P24/30S



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Blank or Vane Cartridge P24,30

Example: P24-2R1E-9A2-B00-#00

X	Vane Blank	S23-15102-0K
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Vane Cartridges

0	CW	2.81in³/rev (46.1 cc/rev)	S24-11918-⊕
	CCW	2.81in ³ /rev (46.1 cc/rev)	S24-05562-⊕
1	CW	1.64in³/rev (26.9 cc/rev)	S24-11789-⊕
	CCW	1.64in ³ /rev (26.9 cc/rev)	S24-51206-⊕
2	CW	1.05in³/rev (17.2 cc/rev)	S24-11697-⊕
	CCW	1.05in ³ /rev (17.2 cc/rev)	S24-11778-⊕
3	CW	3.56in³/rev (58.3 cc/rev)	S24-05342-⊕
	CCW	3.56in ³ /rev (58.3 cc/rev)	S24-05563-⊕
4	CW	4.84in³/rev (79.3 cc/rev)	S24-05509-⊕
	CCW	4.84in ³ /rev (79.3 cc/rev)	S24-05510-⊕
5	CW	5.42in³/rev (88.8 cc/rev)	S24-63562-⊕
	CCW	5.42in ³ /rev (88.8 cc/rev)	S24-44844-⊕
6	CW	6.10in³/rev (100.0 cc/rev)	S24-63563-⊕
	CCW	6.10in ³ /rev (100.0cc/rev)	S24-63564-⊕



Note: Add -0 for Buna/Nitrile, -4 for EPR or -5 for Viton in place of ⊕

Note: CW = Clockwise or Right Hand (RH), CCW = Counter Clockwise or Left Hand (LH)

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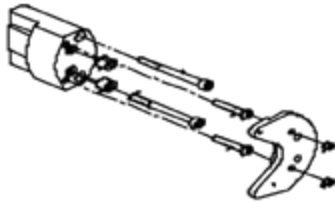
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Control Side

Input

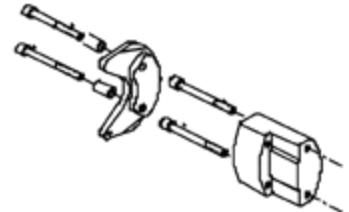
1. Screw (HEX HD)
2. Servo Stem
3. Orifice
4. Plate Servo
5. Screw (SOC HD)



Indicator/Torque Limiter Side

Output

1. Screw
2. Servo Stem
3. Balance Plate
4. Spacer



Input (Standard Orifice 0.062")		Output (Indicator)
P24/30P/S	S23-15110-0K	S23-03950-0K
M24/30H/V	S23-15110-0K	S23-03950-0K

Input

1. Screw (HEX HD)
2. Servo Stem
3. Orifice
4. Plate Servo
5. Screw (SOC HD)

Output

1. Screw
2. Servo Stem
3. Balance Plate
4. Spring Feedback
5. Spacer

HI IQ 7F/G Control Input (Orifice 0.043")		Output
P24/30 (7F/G)	S23-03951-0K	S23-03949-0K
HI IQ 7D/E Control Input		Output
P24/30 (7D/E)	S23-03950-0K	S23-03949-0K
Orifice 0.043"	033-53824-0K	
Orifice 0.062"	033-70819-0K	

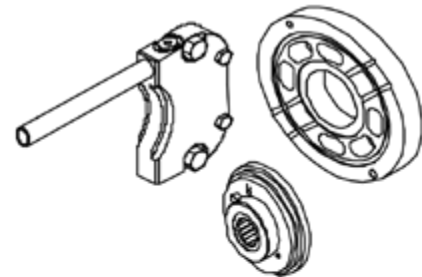
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Rotation Conversions

1. Port Plate
2. Vane Chamber Covers (2)
3. Override Tubes (2)
4. Gerotor Side Plate
5. Tag for Orifice Location (P6,7,8,11,14V ONLY)



P24P/S/R/L		P24F			
CW TO CCW	S23-16875-0K	CW TO CCW	033-71753-0K		
CCW TO CW	S23-16876-0K	CCW TO CW	033-71752-0K		
P30P/S/R/L			P30F		
CW TO CCW	S23-16877-0K	CW TO CCW	033-91237-0K		
CCW TO CW	S23-16878-0K	CCW TO CW	033-91238-0K		
* NOTE: P24/30 PUMPS WITH AN INTERNAL OR EXTERNAL VANE PUMP CARTRIDGE NEED A ROTATION CHANGE					

Note: CW = Clockwise or Right Hand (RH), CCW = Counter Clockwise or Left Hand (LH)

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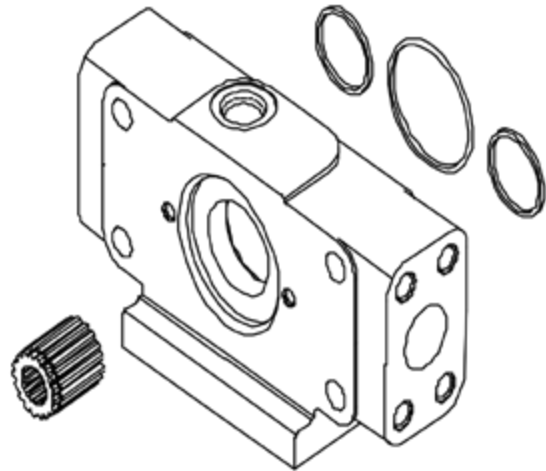
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Required for Units That Already Have a Rear Mounting

1. Adapter
2. Auxiliary Pump to Adapter Gasket
3. Coupling
4. Adapter to Port Block Gasket
5. Valve Block Spacer (P11,14R/L WITH SAE-E ONLY)

Note: Viton seals as standard

P24,30P/S	
SAE-B	S23-16887-5K
SAE-C	S23-16888-5K
P24R/L	
NONE	S21-04526-5K
SAE-B	033-92834-5K
SAE-C	S23-16340-5K
SAE-D	S23-16341-5K
SAE-E	S23-16342-5K
SAE-F	S23-16343-5K
P30R/L	
NONE	S21-04526-5K
SAE-B	S23-16369-0K
SAE-C	S23-16351-5K
SAE-D	S23-16352-5K
SAE-E	S23-16353-5K
SAE-F	S23-16354-5K

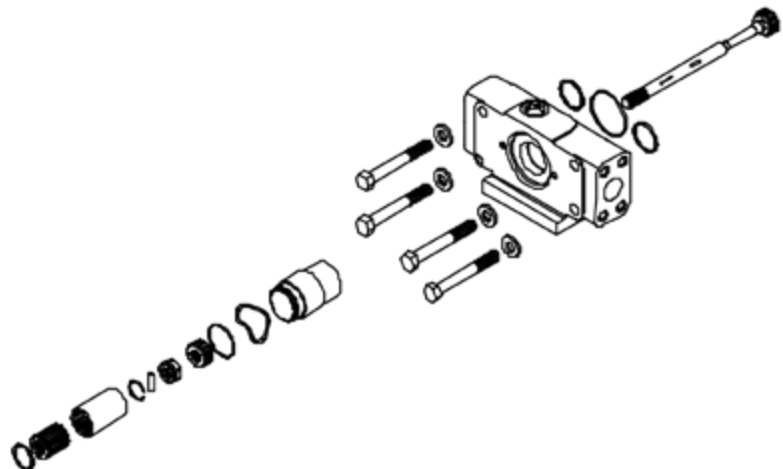


Required For Units That Do Not Have A Rear Mounting

1. Adapter
2. Auxiliary Pump to Adapter Gaskets
3. Coupling
4. Adapter to Coupling Gaskets
5. Auxiliary Shaft
6. Barrel Holddown Nut
7. Replenish Isolation Sleeve

Note: Viton seals as standard

P24,30P/S	
SAE-B	S23-15125-5K
SAE-C	S23-15126-5K



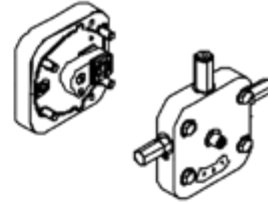
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Controls (Input)

Example: P24-2R1E-#A2-B00-X00

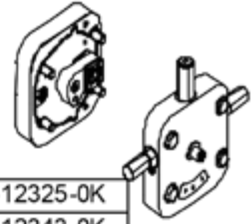


10*	SCREW ADJUSTMENT CCW-A/CW-B	S23-12327-0K
10*	SCREW ADJUSTMENT CCW-B/CW-A	S23-12328-0K
2A*	CYLINDER CONTROL CCW-A/CW-B	S23-12338-0K
2A*	CYLINDER CONTROL CCW-B/CW-A	S23-12340-0K
2A*	CYLINDER CONTROL OFFSET FULL "A" MTG.	S23-12329-0K
2A*	CYLINDER CONTROL OFFSET FULL "B" MTG.	S23-12326-0K
2A*	CYLINDER CONTROL <u>OFFSET MIN</u> "A" MTG.	S23-15207-0K
2A*	CYLINDER CONTROL <u>OFFSET MIN</u> "B" MTG.	S23-12280-0K
2H*	CYLINDER CONTROL 3POSITION SPRING CENTER	S23-12358-0K
2M*-*00	ELEC. CYL CONTROL SPRING CENTER CCW-A/CW-B	S23-16883-0K
2M*-*00	ELEC. CYL CONTROL SPRING CENTER CCW-B/CW-A	S23-15870-0K
2M*-*01	ELEC. CYL CONTROL SPRING CENTER CCW-B/CW-A	S23-16556-0K
2M*-*02	ELEC. CYL CONTROL SPRING CENTER CCW-A/CW-B	S23-15736-0K
2M*-*02	ELEC. CYL CONTROL SPRING CENTER CCW-B/CW-A	S23-15737-0K
2M*-*03	ELEC. CYL CONTROL SPRING CENTER CCW-A/CW-B	S23-15677-0K
2M*-*03	ELEC. CYL CONTROL SPRING CENTER CCW-B/CW-A	S23-15678-0K
2M*-*05	ELEC. CYL CONTROL SPRING CENTER CCW-A/CW-B	S23-15860-0K
2M*-*05	ELEC. CYL CONTROL SPRING CENTER CCW-B/CW-A	S23-15861-0K
2M*-*00	ELEC. CYL CONTROL SPRING OFFSET TO FULL "A" MTG	S23-16627-0K
2M*-*00	ELEC. CYL CONTROL SPRING OFFSET TO FULL "B" MTG	S23-16628-0K
2M*-*01	ELEC. CYL CONTROL SPRING OFFSET TO FULL "A" MTG	S23-16230-0K
2M*-*01	ELEC. CYL CONTROL SPRING OFFSET TO FULL "B" MTG	S23-16229-0K
2M*-*05	ELEC. CYL CONTROL SPRING OFFSET TO FULL "A" MTG	S23-16134-0K
2M*-*05	ELEC. CYL CONTROL SPRING OFFSET TO FULL "B" MTG	S23-16133-0K
2N*-*00	ELEC. CYL CONTROL SPRING CENTER	S23-15817-0K
2N*-*01	ELEC. CYL CONTROL SPRING CENTER	S23-16377-0K
2N*-*02	ELEC. CYL CONTROL SPRING CENTER	S23-15738-0K
2N*-*03	ELEC. CYL CONTROL SPRING CENTER	S23-15679-0K
2N*-*05	ELEC. CYL CONTROL SPRING CENTER	S23-15821-0K
2N*-*06	ELEC. CYL CONTROL SPRING CENTER	S23-16159-0K
2N*-*07	ELEC. CYL CONTROL SPRING CENTER	S23-16546-0K
40*	ROTARY SERVO SPRING CENTERED LESS VOL STOPS	S23-12344-0K

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Example: P24-2R1E-#A2-B00-X00

4A*	ROTARY SERVO SPRING CENTERED WITH VOLUME STOPS	S23-12325-0K
4B*	ROTARY SERVO W/BRAKE, NEUTRAL BY-PASS LESS VOLUME STOPS	S23-12343-0K
4C*	ROTARY SERVO W/BRAKE, NEUTRAL BY-PASS WITH VOLUME STOPS	S23-12324-0K
5A*-01	ELEC/HYD STROKER "0" DEADBAND SPRING OFFSET FULL "B" MTG	S23-12418-0K
5A*-01	ELEC/HYD STROKER "0" DEADBANDSPRING OFFSET FULL "A" MTG	S23-12419-0K
5A*-00	ELEC/HYD STROKER W/DEADBAND SPRING CENTER	S23-12413-0K
5A*-01	ELEC/HYD STROKER "0" DEADBAND SPRING CENTER	S23-12415-0K
5C*-00	ELEC/HYD STROKER W/DEADBAND & BRAKE & NEUTRAL BY-PASS	S23-12414-0K
5C*-01	ELEC/HYD STROKER "0" DEADBAND & BRAKE & NEUTRAL BY-PASS	S23-12420-0K
7D*	High IQ with 10 gpm servovalve	Consult factory
7F*	High IQ with 10 gpm servovalve & 4A (rotary servo) control	Consult factory
7J*	High IQ with 4DC01 valve & volume indicator	Consult factory
7K*	High IQ with 4DC01 valve & 4A (rotary servo) control	Consult factory
8A*-00	HYDRAULIC STROKER SPRING CENTER	S23-12268-0K
8A*-01	HYDRAULIC STROKER SPRING CENTER	S23-12760-0K
8A*-02	HYDRAULIC STROKER SPRING CENTER	S23-12630-0K
8A*-03	HYDRAULIC STROKER SPRING CENTER	S23-12529-0K
8A*-04	HYDRAULIC STROKER SPRING CENTER	S23-15065-0K
8A*-00	HYDRAULIC STROKER SPRING CENTER P6,7,8R	S23-12946-0K
8A*-01	HYDRAULIC STROKER SPRING CENTER P6,7,8R	S23-12760-0K
8A*-02	HYDRAULIC STROKER SPRING CENTER P6,7,8R	S23-12630-0K
8A*-03	HYDRAULIC STROKER SPRING CENTER P6,7,8R	S23-15341-0K
8A*-04	HYDRAULIC STROKER SPRING CENTER P6,7,8R	S23-15951-0K
8A*-00	HYDRAULIC STROKER SPRING OFFSET TO FULL "A" MTG.	S23-12271-0K
8A*-00	HYDRAULIC STROKER SPRING OFFSET TO FULL "B" MTG.	S23-12378-0K
8A*-01	HYDRAULIC STROKER SPRING OFFSET TO FULL "A" MTG.	S23-12527-0K
8A*-01	HYDRAULIC STROKER SPRING OFFSET TO FULL "B" MTG.	S23-12526-0K
8A*-00	HYDRAULIC STROKER SPRING OFFSET TO MIN "B" MTG.	S23-15235-0K
8C*-00	HYD STROKER BRAKE NEUTRAL BY-PASS WITH VOLUME STOPS	S23-12820-0K
8C*-02	HYD STROKER BRAKE NEUTRAL BY-PASS WITH VOLUME STOPS	S23-16239-0K
8C*-03	HYD STROKER BRAKE NEUTRAL BY-PASS WITH VOLUME STOPS	S23-16378-0K
*00	ELEC/HYD STROKER W/DEADBAND SPRING CENTER	S23-12667-0K
9A*-01	ELEC/HYD STROKER W/DEADBAND SPRING CENTER	S23-12957-0K
9A*-00	ELEC/HYD STROKER W/DEADBAND SPRING CENTER CCW-A/CW-B	S23-12733-0K
9A*-00	ELEC/HYD STROKER W/DEADBAND SPRING CENTER CCW-B/CW-A	S23-12734-0K
9A*-00	ELEC/HYD STROKER W/DEADBAND SPRING CENTER P6,7,8R	S23-12940-0K
9A*-01	ELEC/HYD STROKER W/DEADBAND SPRING CENTER P6,7,8R	S23-16073-0K
9A*-00	ELEC/HYD STROKER SPRING OFFSET TO FULL "A" MTG.	S23-15050-0K
9A*-00	ELEC/HYD STROKER SPRING OFFSET TO FULL "B" MTG.	S23-15051-0K
9C*-00	ELEC/HYD STROKER W/BRAKE NEUTRAL BY-PASS W/VOL STOPS	S23-12925-0K

Note: 5A/C & 9A/C Controls have viton seals as standard

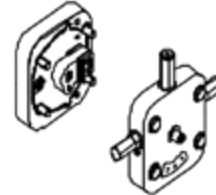
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Note: A Pipe Kit may be required to add one of these controls

Example: P24-2R1E-9A#B00-X00



*D2	POTENTIOMETER OUTPUT CONTROL	S23-02345-0K
*F2	POTENTIOMETER OUTPUT CONTROL	S23-02345-0K
*E2	RVDT OUTPUT CONTROL	S23-03278-0K
*G2	RVDT OUTPUT CONTROL	S23-03278-0K
**2	VOLUME INDICATOR	S13-42064-0K
**4	DAMPENED TORQUE LIMITER	S23-12299-0K
**4	DAMPENED TORQUE LIMITER CCW-A/CW-B	S23-12298-0K
**4	DAMPENED TORQUE LIMITER CCW-B/CW-A	S23-12300-0K
**6	POTENTIOMETER OUTPUT CONTROL	S23-02345-0K
**8	RVDT OUTPUT CONTROL	S23-03278-0K
Gold Cup Controls (Input Override)		
**5	REVERSE COMPENSATOR M24,30	S23-12672-0K

Pipe Kits

"A" or "B" Refer to control side mounting			
	P24C&D MOD	P24 "E" MOD	P30 "B" MOD
Automatic Brake Control (5C)			
CW/CCW -"A"			
CW/CCW -"B"			
8C & 9C			
CW/CCW -"A"			
CW/CCW -"B"			
Torque Limiter **4			
CW - "A"	S23-05690-0K	S23-15547-0K	S23-15551-0K
CW "B"	S23-05691-0K	S23-15548-0K	S23-15493-0K
CCW "A"	S23-05688-0K	S23-15545-0K	S23-15549-0K
CCW "B"	S23-05689-0K	S23-15546-0K	S23-15550-0K
Brake Control +Torque Limiter (ABC + **4)			
CW - "B"		S23-16266-0K	
CCW - "B"		S23-16267-0K	
CW "A"		S23-15689-0K	
CW "B"		S23-15690-0K	