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HYDRAULICS INC

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Gold Cup Kits & Assemblies

P6 & P7

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Complete Seal Kits Contain All Seals for The Following:

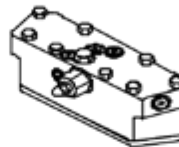
1. Main Pump
2. Valve Block
3. Input/Output Controls
4. Shaft Seal
5. Hot Oil Shuttle (where applicable)
6. Vane Pump (where applicable)



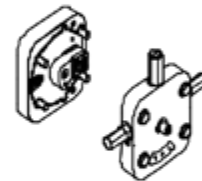
Note: All **BOLD** seal kits are Buna/Nitrile (0)

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 P6,7,8 Gold Cup Pumps

CIPR	MOD.	SERIES	SHAFT TYPE	ROT.	COMPLETE SEAL KIT	SHUTTLE	SHAFT SEAL KIT
6,7,8	C & A	P/D/V	1,2,3,6	R & L	S23-17026-⊕K	N/A	S13-44302-⊕K
			4,5		S23-17027-⊕K		S23-16164-⊕K
			7,8		S23-17028-⊕K		S23-17001-⊕K
		S	1,2,3,6		S23-17029-⊕K	S23-15089-⊕K	S13-44302-⊕K
			4,5		S23-17030-⊕K		S23-16164-⊕K
			7,8		S23-17031-⊕K		S23-17001-⊕K

Seal Kits for P6,7,8 Gold Cup Pumps with TB Auxiliary Pumps

CIPR	MOD.	SERIES	SHAFT TYPE	ROT.	COMPLETE SEAL KIT	SHUTTLE	SHAFT SEAL KIT
6,7,8	C & A	S	1,2,3,6	R & L	S23-16174-⊕K	S23-15089-⊕K	S13-44302-⊕K
			7,8		N/A		S23-17001-⊕K

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

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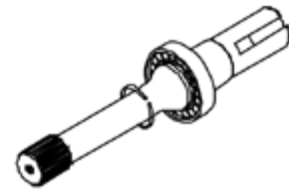
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GOLD CUP MOTOR SEAL KITS

UNIT TYPE	CIPR	SERIES & MOD	SHAFT TYPE	COMPLETE SEAL KIT WITH OR W/OUT SHUTTLE & WITH INPUT/OUTPUT CONTROLS (CONTAINS)	COMPLETE SEAL KIT WITH OR W/OUT SHUTTLE (CONTAINS)	INPUT/ OUTPUT CONTROL (4)	SHAFT SEAL KIT (5)
M & P	6,7	F/G "A" & "C" MOD	1,2,3,6	N/A	S23-00133-ⓈK (5)		S13-44302-ⓈK (6)
M & P	6,7	F/G "D" MOD	1,2,3,6	N/A	S23-03237-ⓈK (5)		S23-17013-ⓈK (6)
M & P	6,7	F/G "D" MOD	4,5	N/A	S23-15720-ⓈK (5)		S23-17014-ⓈK (6)
M	6,7	M6H/V "C" MOD M7H/V "A" MOD	1,2,3,6	S23-17743-ⓈK (3,4)	S23-00137-ⓈK (5)	S23-17000-ⓈK	S13-44302-ⓈK (6)
M	6,7	M6H/V "C" MOD M7H/V "A" MOD	4,5	S23-17744-ⓈK (3,4)	S23-16162-ⓈK (5)		S23-16164-ⓈK (6)
M	6,7	M6H/V "C" MOD M7H/V "A" MOD	7,8	S23-17745-ⓈK (3,4)	S23-17753-ⓈK (5)		S23-16164-ⓈK (6)

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

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



For Mechanical Shaft Seals		For Lip Seals	
P6,7,8		P6,7,8	
P6/7/8/P/D/S/V SAE-C SPLINED	S13-41805-0K	P6/7/8/P/D/S/V SAE-C SPLINED	S23-16514-0K
P6/7/8/P/D/S/V SAE-C KEYED	S13-41806-0K	P6/7/8/P/D/S/V SAE-C KEYED	S23-16539-0K
P6/7/8/P/D/S/V SAE-D SPLINED	S23-15831-0K		
P6/7/8/P/D/D/V SAE-D KEYED	S23-15832-0K		
M6/7/H/V SAE-C SPLINED	S23-16793-0K	M6/7/F/G SAE-C SPLINED	S23-03260-0K
M6/7/H/V SAE-C KEYED	S23-16794-0K	M6/7/F/G SAE-C KEYED	S23-03261-0K
M6/7/H/V SAE-D SPLINED	S23-15831-0K	M6/7/F/G SAE-D SPLINED	S23-15716-0K
M6/7/H/V SAE-D KEYED	S23-15832-0K	M6/7/F/G SAE-D KEYED	S23-15717-0K
P6/7/8/R SAE-C SPLINED	S23-12044-0K	P6/7/F SAE-C SPLINED	S23-03260-0K
P6/7/8/R SAE-C KEYED	S23-12093-0K	P6/7/F SAE-C KEYED	S23-03261-0K
		P6/7/F SAE-D SPLINED	S23-15716-0K
		P6/7/F SAE-D KEYED	S23-15717-0K

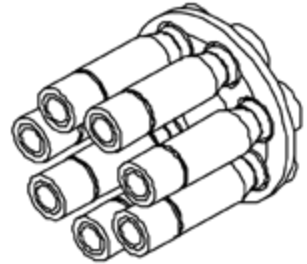
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Piston & Shoes

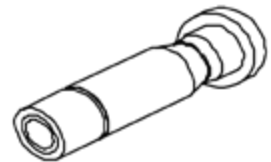
1. Pistons, Shoes & Retainer



M6, M7, P6, P7 & P8					
P6F/P/D/R/S	S13-43655-0K	P6V	S13-45375-0K	M6F/G/H/V	S13-45375-0K
P7F/P/D/R/S	S13-42308-0K	P7V	S13-47873-0K	M7F/G/H/V	S13-47873-0K
P8P/R/S/D/F	S21-11650-0K	P8V	S21-11650-0K	M8F	S21-11650-0K

Piston & Shoe Sets (no retainer)

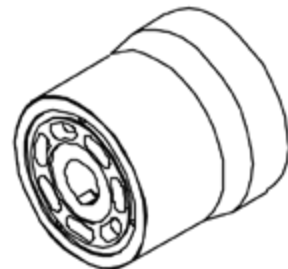
P6, P7, P8, M6 & M7	
P6, M6	S23-17462-0K
P6V, P6W	S23-17463-0K
P7, M7	S23-17464-0K
P7V, P7W	S23-17465-0K
P8P/R/V/D/F	S23-17466-0K



7 Piston & shoes

Barrel and Sleeve Assembly

M6, M7, P6, P7 & P8	
P6V/F/P/D/R/S, M6F/G/H/V	S13-43657-0K
P7V/F/P/D/R/S, M7F/G/H/V	S13-47511-0K
P8V/P/R/S	S23-12718-0K



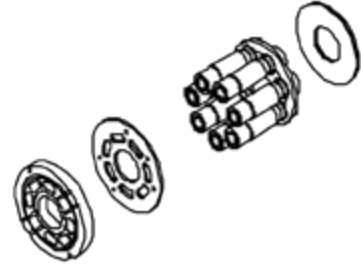
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Rotating Group (Minor)

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

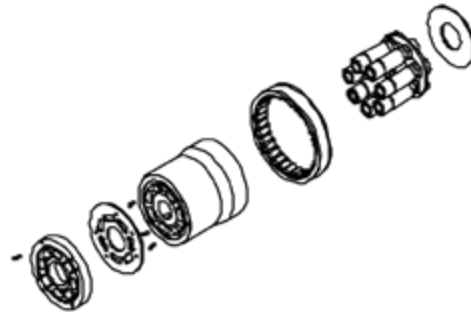


P6,7,8					
P6P/D/R/S	CW	S23-17405-0K	P6V	CW	S23-17411-0K
P6P/D/R/S	CCW	S23-17406-0K	P6V	CCW	S23-17412-0K
P7P/D/R/S	CW	S23-17407-0K	P7V	CW	S23-17413-0K
P7P/D/R/S	CCW	S23-17408-0K	P7V	CCW	S23-17414-0K
P8P/R/S	CW	S23-17409-0K	P8V	CW	S23-17415-0K
P8P/R/S	CCW	S23-17410-0K	P8V	CCW	S23-17416-0K
P6F	CW	S23-17435-0K	M6F/G/H/V	S23-17417-0K	
P6F	CCW	S23-17436-0K	M7F/G/H/V	S23-17418-0K	
P7F	CW	S23-17437-0K			
P7F	CCW	S23-17438-0K			

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



P6,7,8					
P6P/D/R/S	CW	S23-17087-0K	P6V	CW	S23-17093-0K
P6P/D/R/S	CCW	S23-17088-0K	P6V	CCW	S23-17094-0K
P7P/D/R/S	CW	S23-17089-0K	P7V	CW	S23-17095-0K
P7P/D/R/S	CCW	S23-17090-0K	P7V	CCW	S23-17096-0K
P8P/R/S	CW	S23-17091-0K	P8V	CW	S23-17097-0K
P8P/R/S	CCW	S23-17092-0K	P8V	CCW	S23-17098-0K
P6F	CW	S23-17117-0K	M6F/G/H/V	S23-17099-0K	
P6F	CCW	S23-17118-0K	M7F/G/H/V	S23-17100-0K	
P7F	CW	S23-17119-0K			
P7F	CCW	S23-17120-0K			

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Barrel Holddown

1. Auxiliary Shaft
2. Barrel Stop (6-14 ONLY)
3. Holddown Spring
4. Spring Retainer (6-14 ONLY)
5. Retaining Ring (6-14 ONLY)

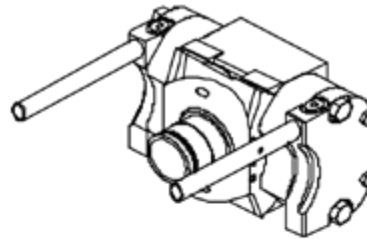


P6,7,8					
Without Rear Drive					
P6/7/8P/D/V	S23-17246-0K	M6H/V	S23-17248-0K	P6/7F	S23-17249-0K
		M6F/G	S23-17249-0K		
With Rear Drive					
P6/7/8P/D/S	S23-17247-0K				

Cam and Cradle Stroking Assemblies

1. Cam and Cradle Stroking Assembly
2. Override Tubes

Note: Viton seals as standard

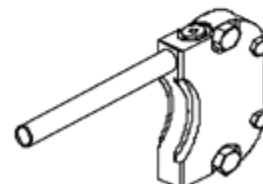


P6,7,8P/S		P6,7,8D/V		P6,7,8R	
CW	S23-17234-5K	CW	S23-17236-5K	CW	S23-17238-5K
CCW	S23-17235-5K	CCW	S23-17237-5K	CCW	S23-17239-5K
M6,7H/V					
BH-DIR	S23-17236-5K				

Cam & Stroking Rotation Conversions (CW to CCW)

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

P6, P7 & P8	CW to CCW	S23-17231-0K
	CCW TO CW	S23-17313-0K



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

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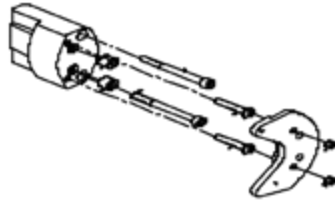
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Control Side

Input

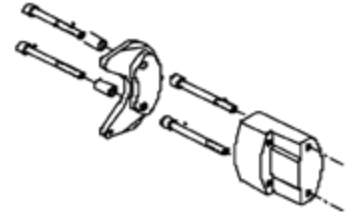
1. Screw (HEX HD)
2. Servo Stem
3. Orifice
4. Plate Servo
5. Screw (SOC HD)



Indicator/Torque Limiter Side

Output

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



Input (Standard Orifice 0.062")		Output (Indicator)
P6/7/8P/S	S23-12681-0K	S23-03383-0K
P6/7/8V	S23-12468-0K	S23-03383-0K
M6/7H/V	S23-12468-0K	S23-03383-0K

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
P6/7/8 (7F/G)	S23-03382-0K	S23-03922-0K
HI IQ 7D/E Control Input		Output
P6/7/8 (7D/E)	S23-03383-0K	S23-03922-0K
Orifice 0.043"	033-53824-0K	
Orifice 0.062"	033-70819-0K	

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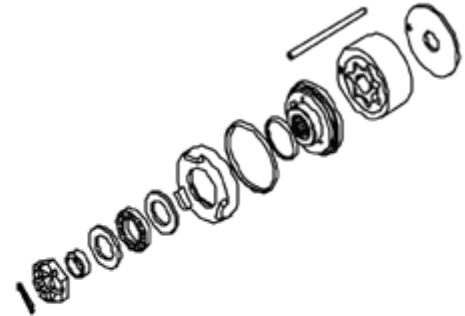
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Gerotor P6,7,8

Note: Viton seals as standard

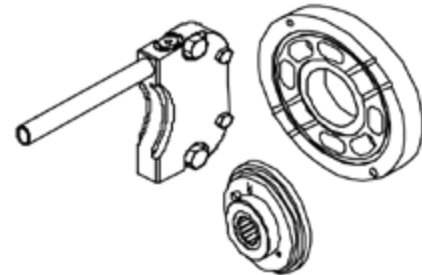
1. Eccentric & Gerotor
2. Gerotor Side Plate (CW or CCW)
3. Ring Seal
4. Side Plate
5. Thrust Bearing & Washers
6. Gerotor Key
7. Holddown Locking Pin
8. Gaskets



P6,7,8S CW	S23-17045-5K	P6,7,8P/V/D CW	S13-47314-5K
P7,8S CCW	S23-17046-5K	P6,7,8P/V/D CCW	S13-47315-5K

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)



P6P/S/D		P6V		P6F	
CW TO CCW	S23-16845-0K	CW TO CCW	S23-16847-0K	*CW TO CCW	031-59333-0K
CCW TO CW	S23-16846-0K	CCW TO CW	S23-16848-0K	*CCW TO CW	031-59368-0K
P7P/S/D		P7V		P7F	
CW TO CCW	S23-16849-0K	CW TO CCW	S23-16851-0K	*CW TO CCW	031-54508-0K
CCW TO CW	S23-16850-0K	CCW TO CW	S23-16852-0K	*CCW TO CW	031-54509-0K
* NOTE: CAM HAS TO BE ROTATED 180° TO KEEP "A" PORT AS INLET					
P8P/S/D		P8V			
CW TO CCW	S23-16853-0K	CW TO CCW	S23-16855-0K		
CCW TO CW	S23-16854-0K	CCW TO CW	S23-16856-0K		
P6R		P7R		P8R	
CW TO CCW	S23-16857-0K	CW TO CCW	S23-16859-0K	CW TO CCW	S23-16861-0K
CCW TO CW	S23-16858-0K	CCW TO CW	S23-16860-0K	CCW TO CW	S23-16862-0K

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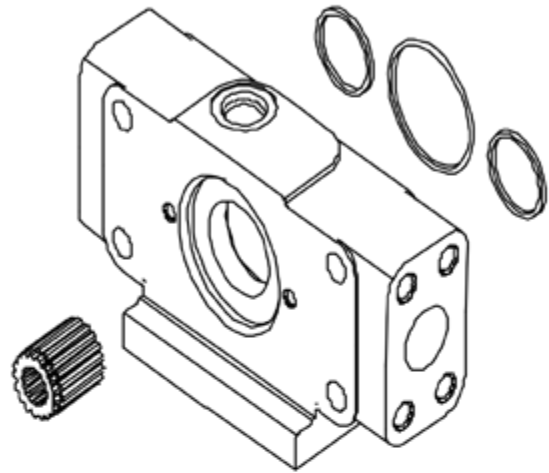
Rear Drive Adapter Kits

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

P6,7,8P/D	
SAE-A	S23-16879-5K
SAE-B	S23-16880-5K
P6,7,8S	
SAE-A	S23-16881-5K
SAE-B	S23-16882-5K
P6,7,8R	
SAE-A	S23-15868-5K
SAE-B	S23-16884-5K
SAE-C	S23-16885-5K

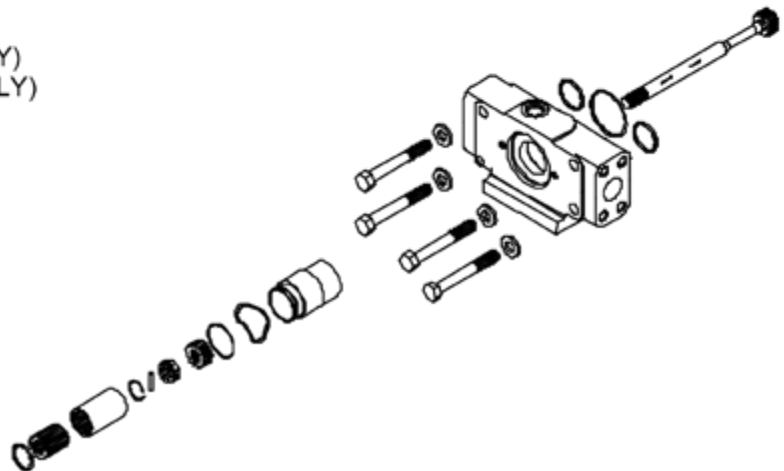


Required For Units That Do Not Have A Rear Mounting

1. Adapter
2. Auxiliary Pump to Adapter Gaskets
3. Coupling
4. Adapter to Coupling Gaskets
5. Auxiliary Shaft
6. Barrel Holddown Thrust Bearing (P6,7,8 ONLY)
7. Barrel Holddown Thrust Washers (P6,7,8 ONLY)
8. Barrel Holddown Nut
9. Replenish Isolation Sleeve

Note: Viton seals as standard

P6,7,8P/D	
SAE-A	S23-12184-5K
SAE-B	S23-12183-5K
P6,7,8S	
SAE-A	S23-12438-5K
SAE-B	S23-12669-5K



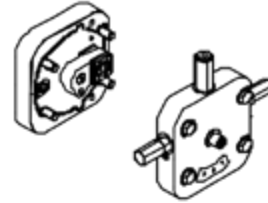
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Controls (Input)

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



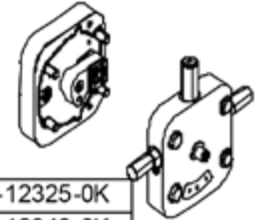
10*	SCREW ADJUSTMENT CCW-A/CW-B	S23-12327-0K
10*	SCREW ADJUSTMENT CCW-B/CW-A	S23-12328-0K
2A*	CYLINDER CONTROL CCW-A/CW-B	S23-12338-0K
2A*	CYLINDER CONTROL CCW-B/CW-A	S23-12340-0K
2A*	CYLINDER CONTROL OFFSET FULL "A" MTG.	S23-12329-0K
2A*	CYLINDER CONTROL OFFSET FULL "B" MTG.	S23-12326-0K
2A*	CYLINDER 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



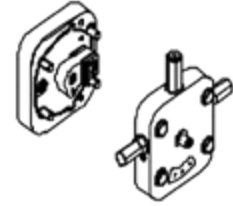
4A*	ROTARY SERVO SPRING CENTERED WITH VOLUME STOPS	S23-12325-0K
4B*	ROTARY SERVO W/BRAKE, NEUTRAL BY-PASS LESS VOLUME STOPS	S23-12343-0K
4C*	ROTARY SERVO W/BRAKE, NEUTRAL BY-PASS WITH VOLUME STOPS	S23-12324-0K
5A*-01	ELEC/HYD STROKER "0" DEADBAND SPRING OFFSET FULL "B" MTG	S23-12418-0K
5A*-01	ELEC/HYD STROKER "0" DEADBAND SPRING 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

LIFCO

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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 M6,7,11,14	S23-00532-0K

Pipe Kits

"A" or "B" Refer to control side mounting	
	P6,7,8
Automatic Brake Control (5C)	
CW/CCW -"A"	S23-03063-0K
CW/CCW -"B"	S23-03064-0K
8C & 9C	
CW/CCW -"A"	S23-15659-0K
CW/CCW -"B"	S23-15658-0K
Torque Limiter **4	
CW - "A"	S23-04112-0K
CW "B"	S23-04113-0K
CCW "A"	S23-04102-0K
CCW "B"	S23-04111-0K
Brake Control +Torque Limiter (ABC + **4)	
CW - "B"	
CCW - "B"	
CW "A"	
CW "B"	