

PARTS BREAKDOWN FOR MODEL HP-35/20
RICE HYDRO, INC.

REF#..	PART NUMBER..	DESCRIPTION..	QTY REQ'D
HYDRAULIC ASSEMBLY:			
1	SC-P10202-100	RETAINING RING	1
2	SC-11-5033S000	SPRING	1
3	SC-P11003-210	O-RING	1
4	SC-12-0440S812	CHECK BALL	1
5	SC-11-5035S000	SEAT-INLET	1
6	SC-11-5034S003	BALL GUIDE	1
7	SC-11-5032S000	SPRING GUIDE	1
8	SC-11-5028N000	GASKET	1
9	SC-P11227-221	BACK UP	2
10	SC-11-5051P000	PISTON BUMPER	1
11	SC-12-25N87WF1Z	FENDER WASHER	1
12	SC-12-25F37SBC45Z	BUTTON HEAD CAP SCREW	1
13	SC-P10212-025	HELICAL SPRING LOCK WASHER	1
14	SC-11-6008S010	HYDRAULIC PISTON	1
15	SC-P11000-221	O-RING	1
16	SC-11-6009B010	HYDRAULIC CYLINDER	1
17	SC-11-5034S002	BALL GUIDE	1
18	SC-11-5017S000	SPRING GUIDE	1
19	SC-11-5020S000	SEAT-OUTLET	1
20	SC-P10202-068	RETAINING RING	1
21	SC-11-5013S000	SPRING	1
22	SC-12-0440S562	CHECK BALL	1
23	SC-P11003-112	O-RING	1

AIR MOTOR ASSEMBLY:

1	SC-P10212-038	WASHER-LOCK	8
2	SC-11-6002A000	END	1
3	SC-11-6151P000	CYLINDER-AIR	1
4	SC-11-6025A000	PISTON-AIR	1
5	SC-P11000-439	O-RING	1
6	SC-11-5047N000	BEARING ASSEMBLY	1
7	SC-P11000-261	O-RING	2
8	SC-P11000-231	O-RING	1
9	SC-P11003-137	O-RING	2
10	SC-D10684	SEAL-DRY	1
11	SC-P10263-193	RETAINING RING	1
12	SC-P11000-028	O-RING	1
13	SC-11-5057P000	BUMPER	1
14	SC-11-5005M002	SPRING	1
15	SC-11-6027A000	PILOT VALVE ASSEMBLY	1
16	SC-11-6092A000	HEAD	1
17	SC-11-5012N000	BUMPER	1
18	SC-P11000-214	O-RING	2
19	SC-D10817	PISTON - APA	1
20	SC-D10263	SLEEVE - APA	1
21	SC-P11000-135	O-RING	1
22	SC-P11000-144	O-RING	4
23	SC-P10214-038	WASHER-FLAT	16
24	SC-12-R262S000	RETAINING RING	1
25	SC-P11000-223	O-RING	1
26	SC-P10230	BOLT-HEX	8
27	SC-12-R200S000	RETAINING RING	1
28	SC-11-5172N000	PLUG	1
29	SC-12-37CNFH1Z	NUT - HEX	8
30	SC-12-25C313CPSS	SET SCREW-HEX SOCKET	1

PARTS BREAKDOWN FOR MODEL HP-35/20
RICE HYDRO, INC.

REF#..	PART NUMBER..	DESCRIPTION..	QTY REQ'D
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PILOT VALVE ASSEMBLY #SC-11-6027A000

1	SC-12-R093S000	RETAINING RING	1
2	SC-P11000-216	O-RING	1
3	SC-P11000-214	O-RING	1
4	SC-11-5016M001	SPRING	1
5	SC-11-6023A000	VALVE BODY	1
6	SC-11-6032X403	AIR CHECK ASSY	1
7	SC-11-5024A403	SEAT	1

AIR CHECK ASSEMBLY #SC11-6032X403

1	SC-11-5056A000	SCREW	1
2	SC-P11000-111	O-RING	1
3	SC-11-5043N000	WASHER	1
4	SC-11-5171X001	VALVE BODY	1
5	SC-12-2104A4D08	NUT	1
6	SC-11-5039S000	RETAINER	1
7	SC-11-5015M000	SPRING	1
8	SC-11-5025N403	WASHER	1

HEAD ASSEMBLY (D6DRY LUBE) - #C10516

1	SC-11-6092A000	HEAD	1
2	SC-11-5012N000	BUMPER	1
3	SC-P1000-214	O-RING	2
4	SC-11-5057P000	BUMPER	1
5	SC-P11000-144	O-RING	4
6	SC-D10684	SEAL - DRY	1
7	SC-P11000-135	O-RING	1
8	SC-P11000-137	O-RING	2
9	SC-P11000-231	O-RING	2
10	SC-D11062	SPACER	1
11	SC-11-5005M002	SPRING	1
12	SC-D10817	PISTON - APA	1
13	SC-P10263-193	RETAINING RING	1
14	SC-D10263	SLEEVE - APA	1
15	SC-11-5047N000	BEARING ASSEMBLY	1
16	SC-12-R262S000	RETAINING RING	1
17	SC-P11000-261	O-RING	1
18	SC-911000-223	O-RING	1

KITS & ASSEMBLIES:

SC-11-6099N010	HYDRAULIC REPAIR KIT	1
SC-11-6100NDL0	AIR MOTOR REPAIR KIT	1
SC-11-5023S000	OUTLET CHECKVALVE ASSEMBLY	1
SC-11-5031S000	INLET CHECKVALVE ASSEMBLY	1

MISC SECTION:

BALLVALVE-3/8HP	3/8 BALLVALVE	1
LINESTRAINER-1/2	MXM 100 MESH	1
GAUGE-3000	3000 PSI LIQUID FILLED GAUGE	1
HOSESWIVEL-1/2	1/2 X 3/4 HOSE SWIVEL	1
NEEDLEVALVE-1/4	BLEED VALVE	1
FILTER-HP-1/2	FILTER REGULATOR W/GAUGE	1
MUFFLER-HP-1"	1" MUFFLER	1
PUMP-D6000B20	PNEUMATIC PUMP	1
LABEL-KIT-HP	INSTRUCTION AND CAUTION STICKERS	1
HOSE-3/8X8-RH	3/8 X 8 FT OUTLET HOSE	1
<i>*3/8" Male Rigid Fitting & 3/8" Male Swivel Fitting included on 8ft outlet hose</i>		
COUPLERBODY-BR-3/8F	FEMALE CONNECT TO OUTLET HOSE	1
COUPLERPLUG-3/8M	MALE PUMP OUTLET PIPING	1
HOSE-3/8X3000XFT	CUSTOMER SPECIFY LENGTH OF HOSE	
3/8" Male Rigid Fitting & 3/8" Male Swivel Fitting		1



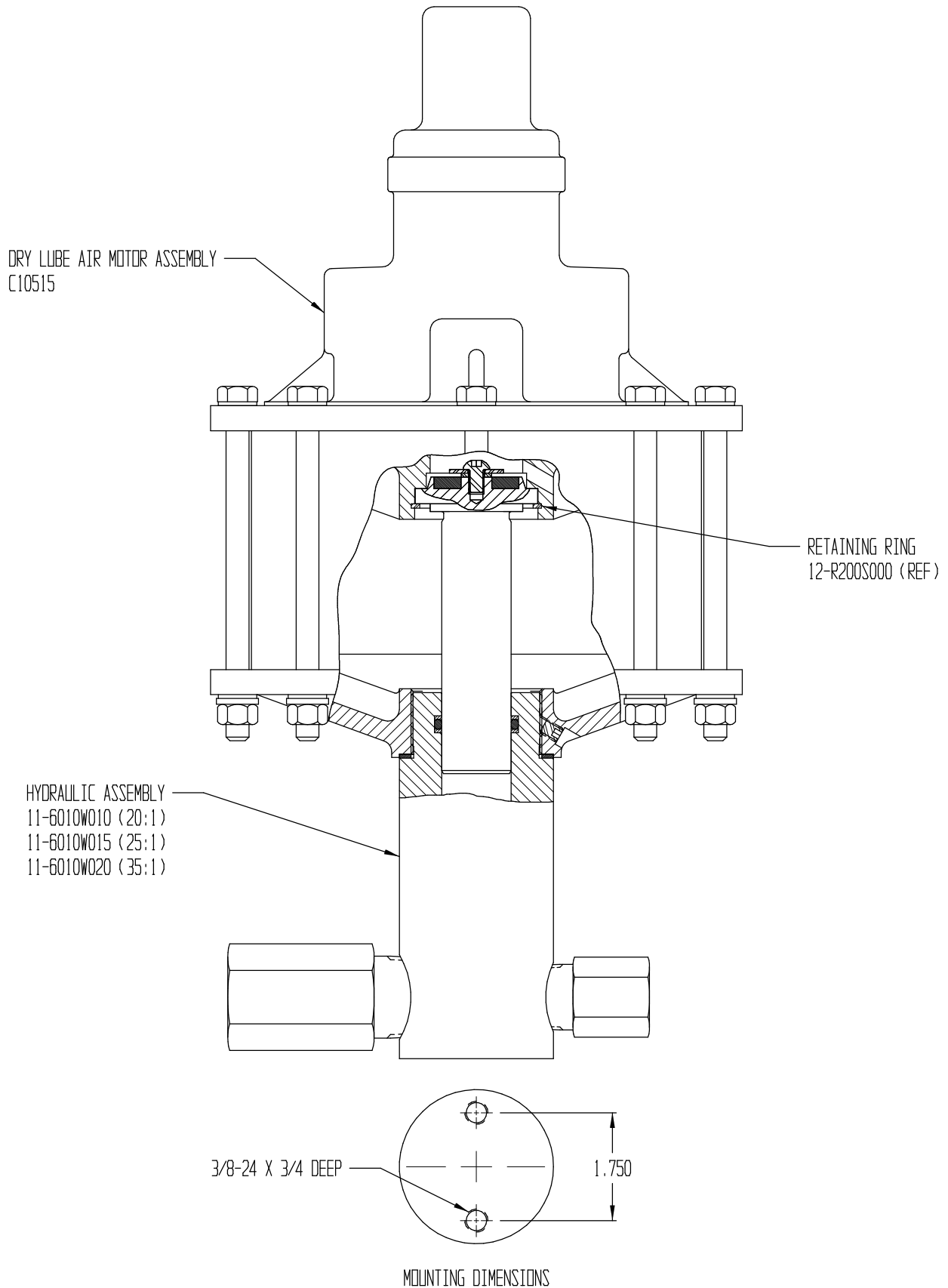
SOUTHERN CALIFORNIA HYDRAULIC ENGINEERING CORPORATION

DESIGNERS AND MANUFACTURERS OF HYDRAULIC & PNEUMATIC EQUIPMENT

1130 COLUMBIA STREET BREA, CALIFORNIA 92821 WWW.SCHYDRAULIC.COM

PUMP ASSEMBLY D6000B20 THRU B35

FORM D6000B20-35 REV 09/08/03





SOUTHERN CALIFORNIA HYDRAULIC ENGINEERING CORPORATION

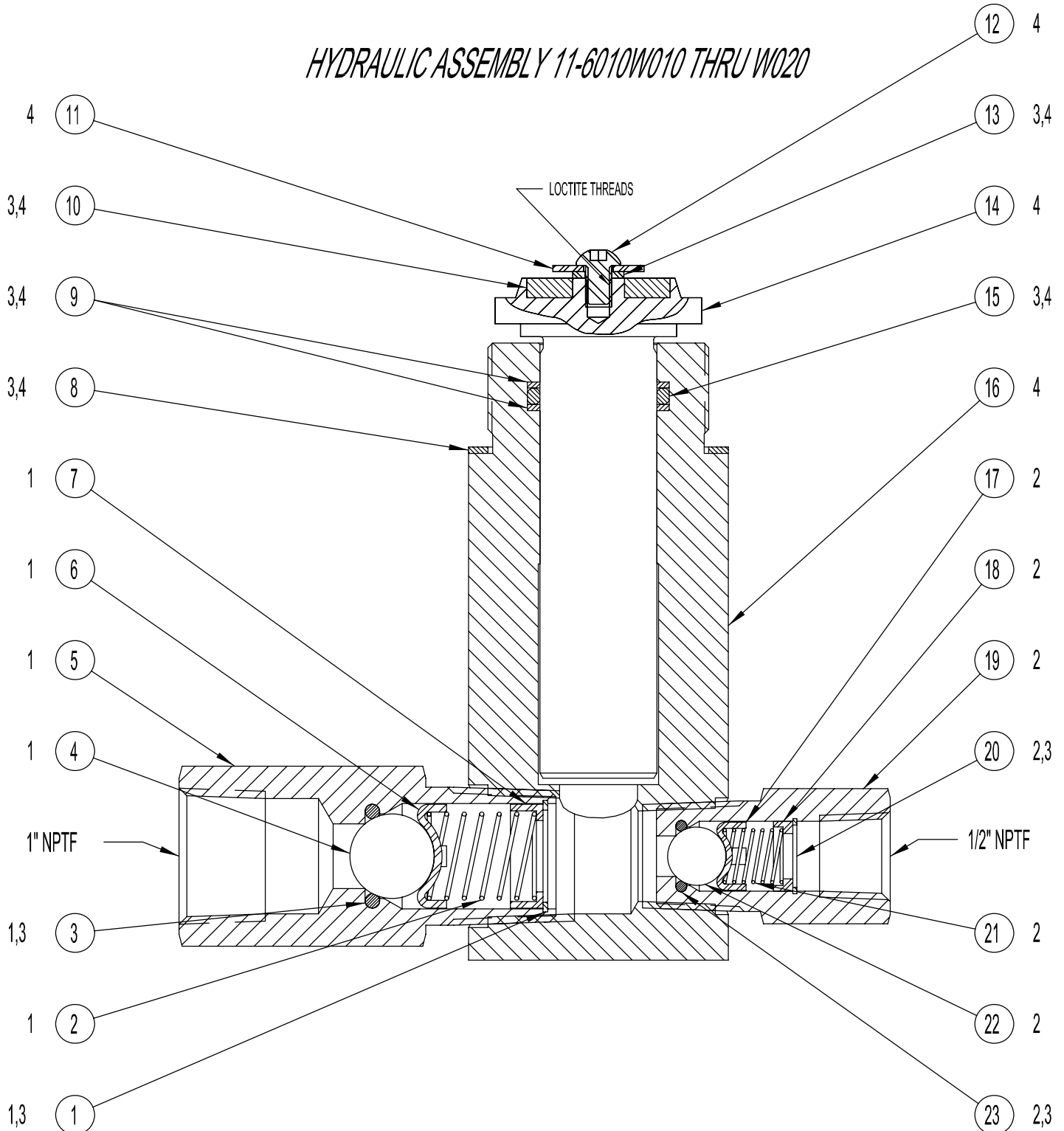
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REV. N/C, 01/20/2006

HYDRAULIC ASSEMBLY 11-6010W010 THRU W020



*
4 INCLUDED IN 11-6011WXXX PISTON & CYLINDER ASSEMBLY

*
3 INCLUDED IN 11-6099NXXX HYDRAULIC REPAIR KIT

2 INCLUDED IN 11-5023S000 OUTLET CHECK VALVE ASSEMBLY

1 INCLUDED IN 11-5031S000 INLET CHECK VALVE ASSEMBLY

* XXX : REPRESENTS HYDRAULIC ASSEMBLY MODEL NUMBER



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BILL OF MATERIALS: 11-6010W010 THRU W020 DWG.

DRAWING NUMBER & DESCRIPTION: 11-6010W010 THRU W020 HYDRAULIC ASSY.

REV. N/C, 01/20/2006

ITEM	QTY	PART NO	DESCRIPTION	W010	W015	W020	REFERENCE NO
1	1	P10202-100	RETAINING RING	X	X	X	12-R100S000
2	1	11-5033S000	SPRING	X	X	X	10-450-33
3	1	P11003-210	O-RING, BUNA	X	X	X	12-6227N015S
4	1	12-0440S812	CHECK BALL	X	X	X	
5	1	11-5035S000	SEAT-INLET	X	X	X	10-450-35
6	1	11-5034S003	BALL GUIDE	X	X	X	10-450-34-3
7	1	11-5032S000	SPRING GUIDE	X	X	X	10-450-32
8	1	11-5028N000	GASKET	X	X	X	10-450-28
9	2	P11227-221	BACK-UP	X			12-8774T026
9	2	P11227-219	BACK-UP		X		12-8774T024
9	2	P11227-216	BACK-UP			X	12-8774T021
10	1	11-5051P000	PISTON BUMPER	X	X	X	10-450-51
11	1	12-25N87WF1Z	FENDER WASHER	X	X	X	
12	1	12-25F37SBC45Z	BUTTON HD.CAP SCREW	X	X	X	
13	1	P10212-025	HELICAL SPRING LOCK WASHER	X	X	X	12-5001C407
14	1	11-6008S010	HYDRAULIC PISTON	X			10-550-8-1
14	1	11-6008S015	HYDRAULIC PISTON		X		10-550-8-1.5
14	1	11-6008S020	HYDRAULIC PISTON			X	10-550-8-2
15	1	P11000-221	O-RING, BUNA	X			12-6227N026
15	1	P11000-219	O-RING, BUNA		X		12-6227N024
15	1	P11000-216	O-RING, BUNA			X	12-6227N021
16	1	11-6009B010	HYDRAULIC CYLINDER	X			10-550-9-1
16	1	11-6009B015	HYDRAULIC CYLINDER		X		10-550-9-1.5
16	1	11-6009B020	HYDRAULIC CYLINDER			X	10-550-8-2
17	1	11-5034S002	BALL GUIDE	X	X	X	10-450-34-2
18	1	11-5017S000	SPRING GUIDE	X	X	X	10-450-17
19	1	11-5020S000	SEAT-OUTLET	X	X	X	10-450-20
20	1	P10202-068	RETAINING RING	X	X	X	12-R068S000
21	1	11-5013S000	SPRING	X	X	X	10-450-13
22	1	12-0440S562	CHECK BALL	X	X	X	
23	1	P11003-112	O-RING	X	X	X	12-6227N010S

WHERE USED: 10-6000W010 THRU W020
10-6000W010L THRU W020L
80-6001W010 THRU W020



SOUTHERN CALIFORNIA HYDRAULIC ENGINEERING CORPORATION

Designer and Manufacturers of Hydraulic & Pneumatic Equipment

1130 COLUMBIA STREET, BREA, CALIFORNIA 92821 — WWW.SCHYDRAULIC.COM

600 SERIES PUMP LUBRICATED AND DRY LUBE APA VALVE AIR MOTOR ASSEMBLIES

DOC NO. 15138

REV. N/C 04-06-09 M.E.

PAGE 1 OF 4

LUBRICATED AIR MOTOR ASSEMBLY 11-6094A000 DRY LUBE AIR MOTOR ASSEMBLY 11-6094ADL0 AND C10515

(SEE PAGE 2 & 3 FOR DRY LUBE AIR MOTOR ASSEMBLY 11-6094ADL0 AND C10515)

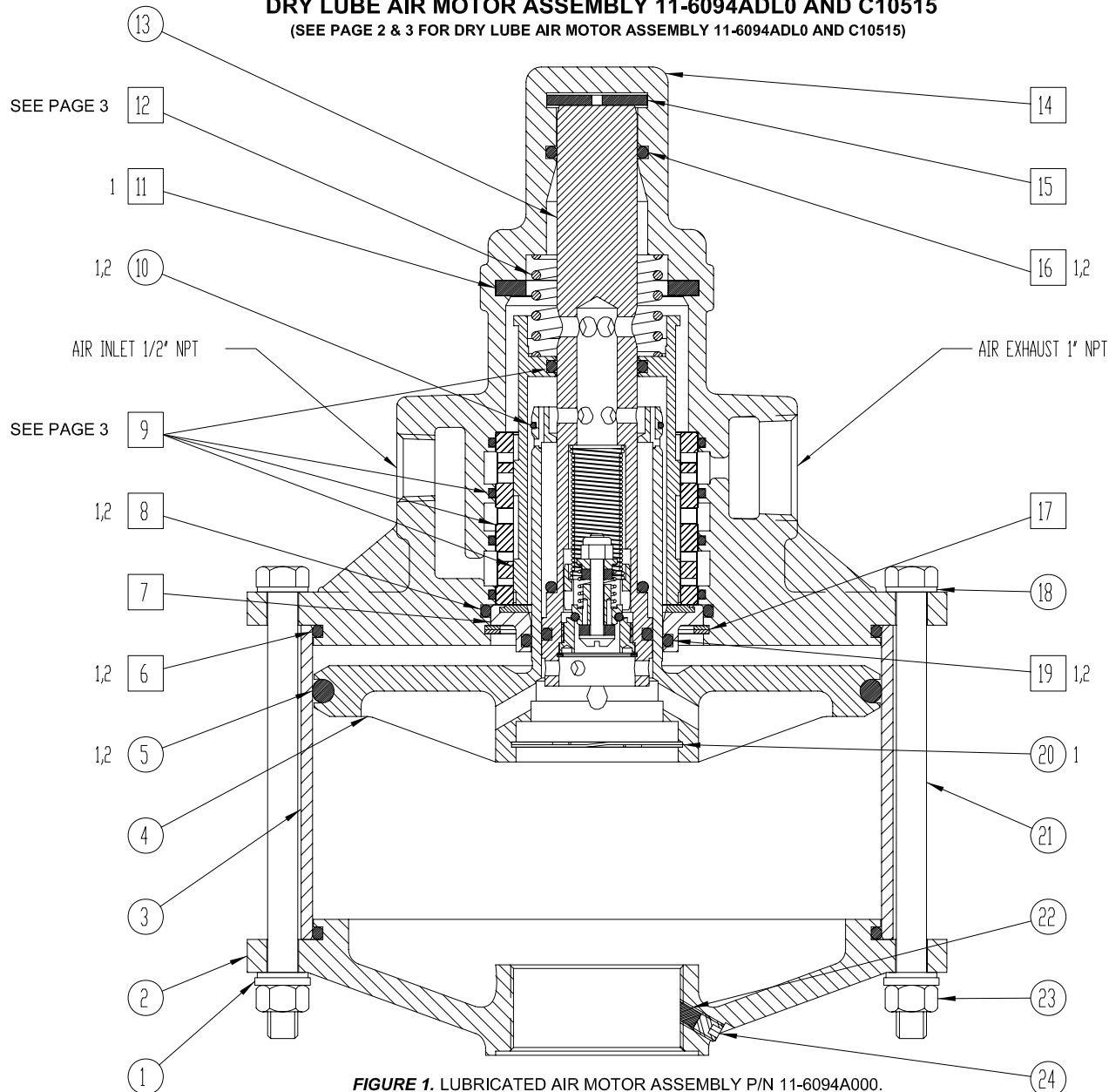


FIGURE 1. LUBRICATED AIR MOTOR ASSEMBLY P/N 11-6094A000.
SEE PAGE 2 & 3 FOR DRY LUBE AIR MOTOR ASSEMBLY P/N 11-6094ADL0 AND C10515.

1 INCLUDED IN 11-6100N000 AIR MOTOR REPAIR KIT

2 INCLUDED IN 11-6130N000 AIR MOTOR PACKING SET

XX INCLUDED IN 11-6128A000 HEAD ASSEMBLY

1 INCLUDED IN R10104 AIR MOTOR REPAIR KIT

2 INCLUDED IN R10105 AIR MOTOR PACKING SET

XX INCLUDED IN C10516 HEAD ASSEMBLY

NOTE: USE WITH AIR MOTOR ASSEMBLY P/N 11-6094A000.
P/N 11-6100N000 AND 11-6130N000 INCLUDE SAME PARTS
AS R10104 AND R10105 RESPECTIVELY.

NOTE: USE WITH AIR MOTOR ASSEMBLY P/N 11-6094ADL0
AND C10515. P/N 11-6100N000 AND 11-6130N000 INCLUDE
SAME PARTS AS R10104 AND R10105 RESPECTIVELY.



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Designer and Manufacturers of Hydraulic & Pneumatic Equipment

1130 COLUMBIA STREET, BREA, CALIFORNIA 92821 - (714) 257-4800 - FAX (714) 257-4810

600 SERIES PUMP LUBRICATED AND DRY LUBE APA VALVE AIR MOTOR ASSEMBLIES

A. LUBRICATED AIR MOTOR ASSEMBLY P/N 11-6094A000 (REFER TO ITEM 9A & 12A)

B. DRY LUBE AIR MOTOR ASSEMBLY P/N 11-6094ADL0 AND C10515 (REFER TO ITEM 9B & 12B)

DOC. NO. 15138, REV. N/C, 04-06-09

PAGE 2 OF 4

ITEM NO	QTY	PART NO	DESCRIPTION	REFERENCE NO
1	8	P10212-038	WASHER-LOCK	
2	1	11-6002A000	END	10-550-2
3	1	11-6151P000	CYLINDER-AIR	10-550-151
4	1	11-6025A000	PISTON-AIR	10-550-25
5	1	P11000-439	O-RING	12-6227N066
6	2	P11000-261	O-RING	12-6230N039
7	1	11-5047N000	BEARING ASSEMBLY	10-450-47
8	1	P11000-231	O-RING	12-6230N009
9A *	1	11-6152A000	LUBRICATED APA VALVE ASSEMBLY (<i>SEE PAGE 3</i>)	10-550-152
9B *	1	11-6152ADL0	DRY LUBE APA VALVE ASSEMBLY (<i>SEE PAGE 3</i>)	10-550-152DL
10	1	P11000-028	O-RING	12-8775N028
11	1	11-5057P000	BUMPER	10-450-57
12A *	1	11-5005M001	SPRING, RETURN (<i>USE W/ITEM No. 9A, SEE PAGE 3</i>)	10-450-5-1
12B *	1	11-5005M002	SPRING, RETURN (<i>USE W/ITEM No. 9B, SEE PAGE 3</i>)	10-450-5-2
13	1	11-6027A000	PILOT VALVE ASSEMBLY	10-550-27
14	1	11-6092A000	HEAD	10-550-92
15	1	11-5012N000	BUMPER	10-450-12
16	1	P11000-214	O-RING	12-6227N019
17	1	12-R262S000	RETAINING RING	RRT-262
18	16	P10214-038	WASHER-FLAT	
19	1	P11000-223	O-RING	12-6230N001
20	1	12-R200S000	RETAINING RING	RRT-200
21	8	P10230	BOLT-HEX	
22	1	11-5172N000	PLUG	10-450-172
23	8	12-37CNFH1Z	NUT-HEX	
24	1	P10238	SET SCREW-HEX SOCKET	12-25C313CPSS

*** ITEM 9A - LUBRICATED APA VALVE ASSEMBLY P/N 11-6152A000. SEE PAGE 3 FOR DETAILS.**

ITEM NO	QTY	PART NO	DESCRIPTION	REFERENCE NO
9A.1	1	P11000-214	O-RING	
9A.2	1	11-6153A000	PISTON, APA	10-550-153
9A.3	1	11-6126A000	SLEEVE, APA	10-550-126
9A.4	4	P11000-144	O-RING	

*** ITEM 9B - DRY LUBE APA VALVE ASSEMBLY P/N 11-6152ADL0 AND C10526. SEE PAGE 3 FOR DETAILS.**

ITEM NO	QTY	PART NO	DESCRIPTION	REFERENCE NO
9B.1	1	P11000-214	O-RING	
9B.2	1	P10263-193	RETAINING RING	
9B.3	1	D10684	SEAL, DRY LUBE	
9B.4	1	P11000-135	O-RING	
9B.5	1	D10817	PISTON, APA	
9B.6	2	P11003-137	O-RING	
9B.7	1	D10263	SLEEVE, APA	
9B.8	4	P11000-144	O-RING	



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600 SERIES PUMP DRY LUBE AND LUBRICATED APA VALVE AIR MOTOR ASSEMBLIES

DOC NO. 15138

REV. N/C 04-06-09 M.E.

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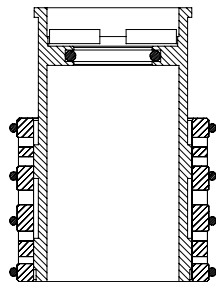


FIGURE 2. LUBRICATED APA VALVE ASSEMBLY
P/N 11-6152A000

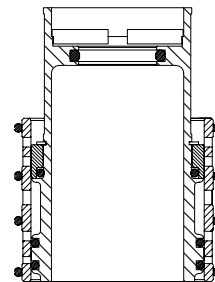


FIGURE 3. DRY LUBE APA VALVE ASSEMBLY
NEW P/N 11-6152ADL0 AND C10526

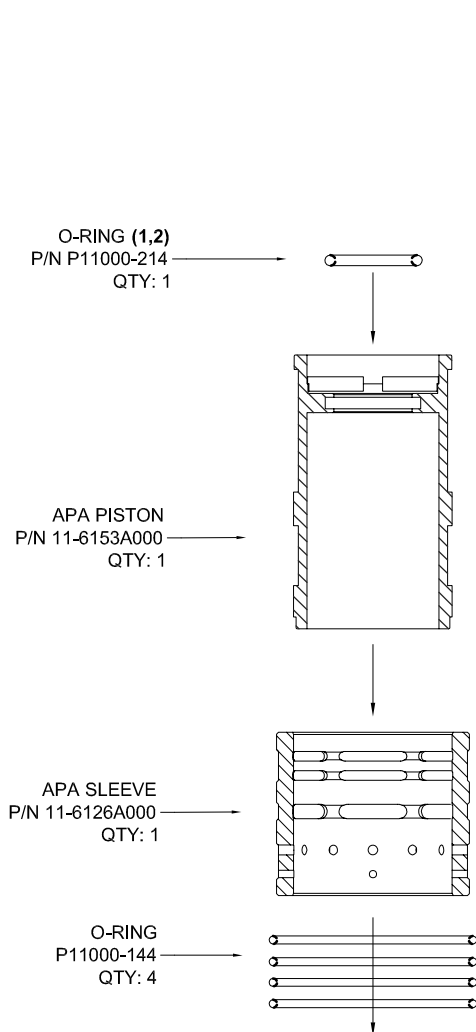


FIGURE 4. LUBRICATED APA VALVE PART CONFIGURATION.
USE APA VALVE ASSEMBLY P/N 11-6152A000.
USE APA VALVE RETURN SPRING P/N 11-5005M001.
USE AIR MOTOR P/N 11-6094A000
REFER TO ITEMS 9A AND 12A

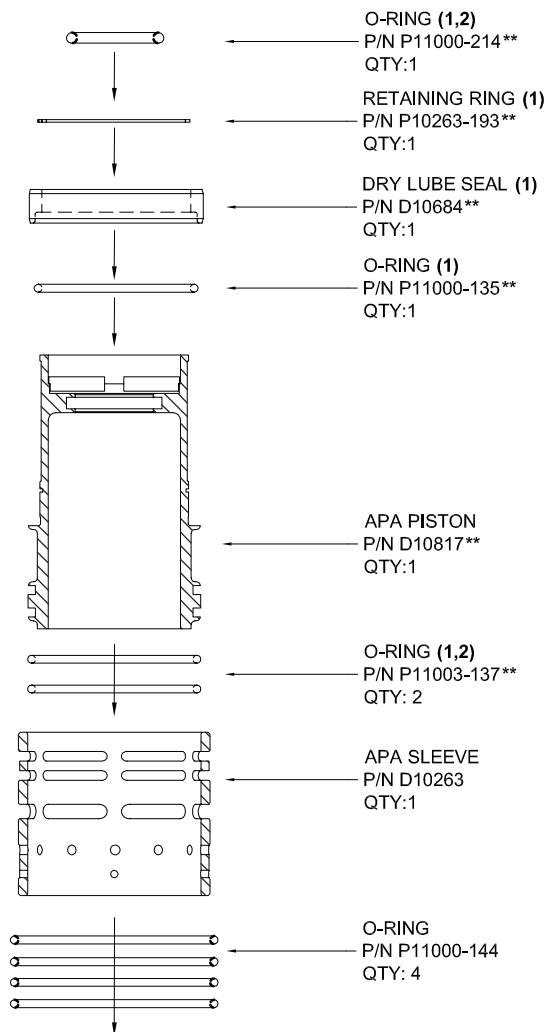


FIGURE 5. DRY LUBE APA VALVE PART CONFIGURATION.
USE APA VALVE ASSEMBLY P/N 11-6152ADL0
USE APA VALVE RETURN SPRING P/N 11-5005M002
USE AIR MOTOR ASSEMBLY P/N 11-6094ADL0 AND C10525
**PARTS INCLUDED IN APA PISTON ASSEMBLY P/N C10544
REFER TO ITEMS 9B AND 12B



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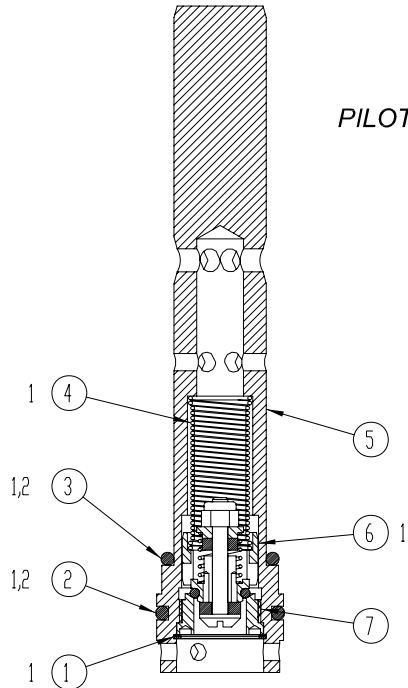
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600 SERIES PUMP LUBRICATED AND DRY LUBE APA VALVE AIR MOTOR ASSEMBLIES

DOC NO. 15138

REV. N/C 04-06-09 M.E.

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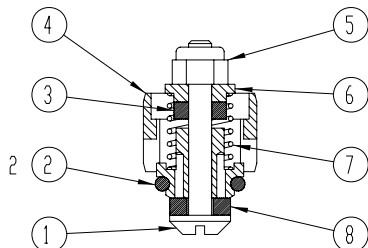
PILOT VALVE ASSEMBLY 11-6027A000

7	1	11-5024A403	SEAT	10-403-24
6	1	11-6032X403	AIR CHECK ASSY	10-403-32-1
5	1	11-6023A000	VALVE BODY	10-550-23
4	1	11-5016M001	SPRING	10-450-16-1
3	1	P11000-214	O-RING	12-6227N019
2	1	P11000-216	O-RING	12-6227N021
1	1	12-R093S000	RETAINING RING	RRT-93
ITEM NO.	QTY	PART NO.	DESCRIPTION	REF NO.

2 INCLUDED IN 11-6130N000 AND R10105 AIR MOTOR PACKING SET

1 INCLUDED IN 11-6100N000 AND R10104 AIR MOTOR REPAIR KIT

AIR CHECK ASSEMBLY 11-6032X403



8	1	11-5025V403	WASHER	10-403-25V
7	1	11-5015M000	SPRING	10-450-15
6	1	11-5039S000	RETAINER	10-450-39
5	1	12-2104A4D08	NUT	
4	1	11-5171X001	VALVE BODY	10-450-171-1
3	1	11-5043V000	WASHER	10-450-43V
2	1	P11000-111	O-RING	12-6227N009
1	1	11-5056A000	SCREW	10-450-56
ITEM NO.	QTY	PART NO.	DESCRIPTION	REF NO.