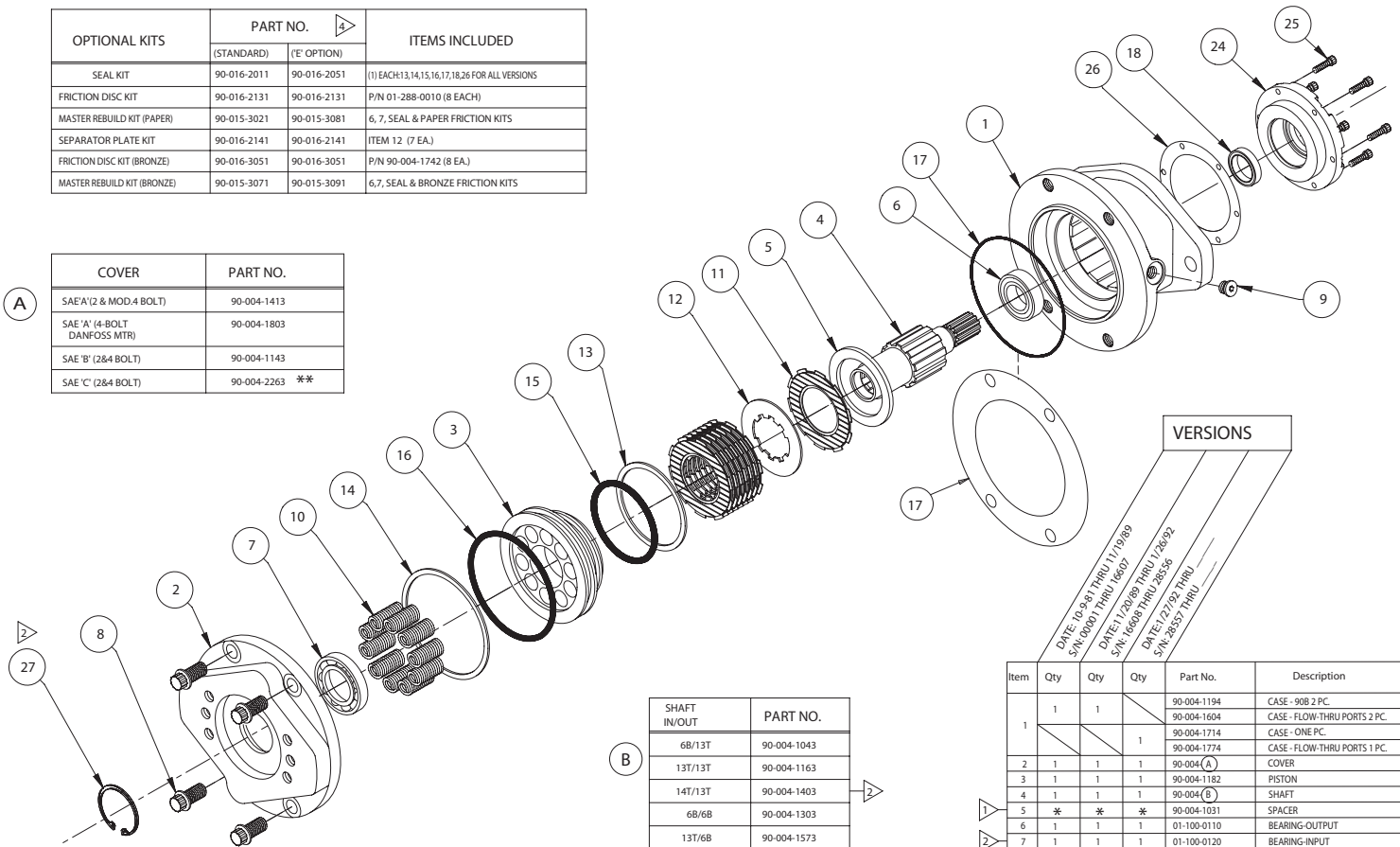




OPTIONAL KITS	PART NO.		ITEMS INCLUDED
	(STANDARD)	(E' OPTION)	
SEAL KIT	90-016-2011	90-016-2051	(1) EACH 13,14,15,16,17,18,26 FOR ALL VERSIONS
FRICTION DISC KIT	90-016-2131	90-016-2131	P/N 01-288-0010 (8 EACH)
MASTER REBUILD KIT (PAPER)	90-015-3021	90-015-3081	6, 7, SEAL & PAPER FRICTION KITS
SEPARATOR PLATE KIT	90-016-2141	90-016-2141	ITEM 12 (7 EA.)
FRICTION DISC KIT (BRONZE)	90-016-3051	90-016-3051	P/N 90-004-1742 (8 EA.)
MASTER REBUILD KIT (BRONZE)	90-015-3071	90-015-3091	6,7, SEAL & BRONZE FRICTION KITS

COVER	PART NO.
SAE 'A' (2 & MOD.4 BOLT)	90-004-1413
SAE 'A' (4-BOLT DANFOSS MTR)	90-004-1803
SAE 'B' (2&4 BOLT)	90-004-1143
SAE 'C' (2&4 BOLT)	90-004-2263 **

A



B

SHAFT IN/OUT	PART NO.
6B/13T	90-004-1043
13T/13T	90-004-1163
14T/13T	90-004-1403
6B/6B	90-004-1303
13T/6B	90-004-1573
14T/6B	90-004-1383
15T/13B	90-004-1993
15T/6B	90-004-1942
Ø1X 1/4 KEY/13T	90-004-2233
Ø1X 1/4 KEY/6B	90-004-1932

EFFECTIVE FROM: S/N 00001 10/09/81 TO: (CURRENT)

VERSIONS

DATE: 10-28-81 THRU 11/19/89  
S/N: 00001 THRU 1/18/87  
DATE: 11-20/89 THRU 1/26/92  
S/N: 16688 THRU 28536  
DATE: 12/7/92 THRU  
S/N: 28537 THRU

Item	Qty	Qty	Qty	Part No.	Description
1	1	1	1	90-004-1194	CASE - 90B 2 PC.
				90-004-1604	CASE - FLOW-THRU PORTS 2 PC.
				90-004-1714	CASE - ONE PC.
				90-004-1774	CASE - FLOW-THRU PORTS 1 PC.
2	1	1	1	90-004 (A)	COVER
3	1	1	1	90-004-1182	PISTON
4	1	1	1	90-004 (B)	SHAFT
5	*	*	*	90-004-1031	SPACER
6	1	1	1	01-100-0110	BEARING-OUTPUT
7	1	1	1	01-100-0120	BEARING-INPUT
8	4	4	4	01-150-1040	12 PT. CAPSCREW (1/2-13X1)
9	1	1	1	01-208-0020	HOL. HEX. PLUG (7/16-20)
10	*	*	*	01-261-0290	SPRING - (GREEN)
				01-261-0300	SPRING - (GOLD)
				01-261-0310	SPRING - (RED)
11	*	*	*	01-288-0010	FRICTION DISC (PAPER)
				90-004-1742	FRICTION DISC (BRONZE)
12	*	*	*	01-288-0020	SEPARATOR PLATE
13	1	1	1	01-400-0120	BACK-UP RING
14	1	1	1	01-400-0140	BACK-UP RING
15	1	1	1	01-402-0450	O-RING (STANDARD)
				01-402-0850	O-RING (E' OPTION)
16	1	1	1	01-402-0470	O-RING (STANDARD)
				01-402-0860	O-RING (E' OPTION)
17	1	1	1	01-402-0580	O-RING
				90-004-1101	GASKET
18	1	1	1	01-405-0340	SEAL
				90-004-1052	BASE
25	6	6		01-150-1030	SO.CHD.CAPSCREW (10-24X3/4)
26	1	1		90-004-1111	GASKET - BASE

2 PC. CASE ONLY

Model 90B

\* 1 QTY. OF SPRINGS MUST BE 2,4,5,6,8 OR 10 SYMMETRICALLY SPACED. TOTAL QTY OF SEPARATORS (ITEM 12) AND SPACERS (ITEM 5) MUST EQUAL 7. QTY OF FRICTION DISCS (ITEM 11) = QTY OF SEPARATORS (ITEM 12) PLUS 1. A FULL COMPLEMENT BRAKE INCLUDES 8 FRICTION DISCS (ITEM 11), 7 SEPARATORS (ITEM 12), AND 0 SPACERS (ITEM 5). THE QTY OF ALL ITEMS ABOVE IS DETERMINED BY TORQUE AND RELEASE PRESSURE REQUIREMENTS.

2 BRAKE WITH 14T OR 1X 1/4 KEY INPUT SPLINE REQUIRES THE FOLLOWING:

INPUT PILOT			
ITEM	DESCRIPTION	SAE 'A'/'B'	SAE 'C' **
7	THRUST WASHER	01-112-0280	01-112-0390
27	RETAINING RING		01-160-0620

\*\*SAE 'C' COVER 90-004-2263 IS NOT AVAILABLE WITH OTHER THAN 14T INPUT SPLINE.

3. CASE (ITEM 1) WITH FLOW-THRU PORTS REQUIRES (4) 1/8 NPT PLUGS P/N 01-207-0300 (NOT SHOWN).

4. STANDARD PISTON O-RINGS FOR 3,000 PSI ARE BLACK NITRILE. OPTION 'E' EXTRA PRESSURE O-RINGS FOR 5,000 PSI SYSTEM PRESSURE ARE LIGHT YELLOW OR CREAM COLORED URETHANE.