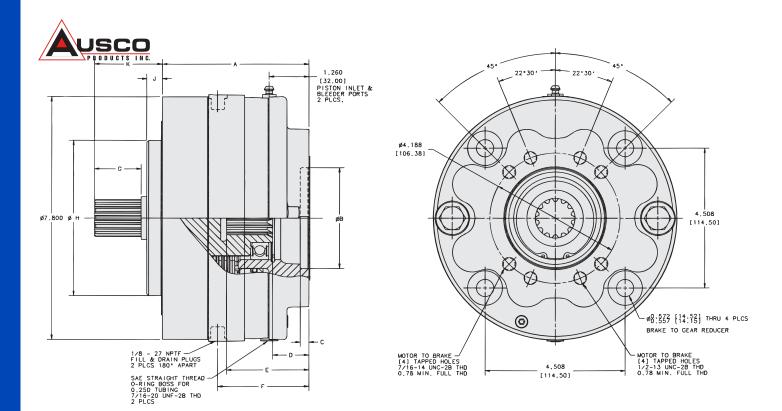
Modified SAE 'A' to SAE 'C' Mount – WET



DESCRIPTION	76928	78299
Rated Torque	9100 (1028)	9000 (1017)
Full Release Pressure	240 (17)	230 (16)
Input Spline (Internal)	14T 12/24 ANSI B92.1 Side Fit 30° PA	SAE 6B 1.00 O.D. Parallel Side Fit
Output Spline (External)	14T 12/24 ANSI B92.1 Side Fit 30° PA	14T 12/24 ANSI B92.1 Side Fit 30° PA
A-Mounting Length	4.720 (119.89)	4.720 (119.89)
B-Input Pilot Diameter	3.253 (82.63)	3.253 (82.63)
C-Input Pilot Length	0.270 (6.86)	0.270 (6.86)
D-Input Shaft Clearance	1.156 (29.36)	1.156 (29.36)
E-Max Input Shaft Length	2.660 (67.56)	2.036 (51.71)
F-Fill/Drain Plug Locations	2.930 (74.42)	2.930 (74.42)
G-Min Spline Length	1.500 (38.1)	1.500 (38.1)
H-Output Pilot Diameter	4.999 (126.97)	4.999 (126.97)
J-Output Pilot Length	0.490 (12.45)	0.490 (12.45)
K-Output Shaft Length	2.160 (54.86)	2.160 (54.86)
Oil Fill Volume Horizontal (ml)	150	150
Oil Fill Volume Vertical (ml)	300	300
0-Ring Service Kit	PK-1368	PK-1368
Stack Service Kit	PK-1370	PK-1370
Bearing Service Kit	PK-933	PK-933
Gasket Service Kit	PK-1398	PK-1398

- Units: length/diameter = in (mm), pressure = psi (bar), torque = lbs in (Nm)
- Maximum operating pressure is 3,000 psi. (207 bar).
 Pressure spikes or surges not to exceed 4,000 psi. (278 bar).
- Brake cavity cooling oil pressure not to exceed 15 psi (1 bar).
- Maximum brake speed is 5,000 rpm.



FAILSAFE BRAKE W/SERVICE BRAKE

BRAKE FUNCTION

The Failsafe Brake is spring loaded to apply the brake and hydraulic pressure is required to release or "hold off" the brake. Normal operation is to have the brake pressurized in the released position with the vehicle hydraulic system running Any function which reduces the hydraulic system pressure below the release pressure of the brake, will cause a brake application

In addition, the brake may be applied via a separate hydraulic system connected to the Service Brake injet Pressure in this circuit will apply the brake, and the brake torque will be directly proportional to the amount of pressure applied, without disturbing the Failsafe portion of the brake

INSTALLATION INSTRUCTIONS (Ref Fig 1)

- Place the Gasket (31) onto the mounting face of the brake
- Place the brake shaft into the gear reducer with the brake Bleeder Screws in the vertical position, if possible
- Move the brake into position with gear reducer assuring proper gasket location. Align the mounting bolt holes by rotating the engaged brake into position. If this is not possible, the brake may be rotated after pressure has been applied to the inlet in the Power Plate (25) This will release the brake and allow it to be rotated into
- Similarly place a Gasket (31) onto the flange of the motor
- Insert the shaft of the motor into the brake and push into position, assuring proper gasket location
- Insert two half-inch holts (Grade 5) thru the motor flange, the gasket, the brake, the second gasket and into the threaded hole in the gear reducer mounting flange Insure that the bolts are not too long so that they do not bottom out in the reducer before clamping
- Run bolts in alternately, to prevent binding, until snug Then torque the bolts to 75-85 lb ft Note Both shafts must slide together freely - DO NOT use bolts to force the unit together
- 8 With motor and brake boilted into position, remove cap plugs and connect 'inlet" hydraulic lines to brake Housing (5) and Power Plate (25) (If not done for shaft alignment - Step 3) Brake inlet is 250 tubing OD, straight thread o-ring boss, 438-20 UNF-28 Thd)
- 9 Bleed air from brake via bleeder screws Note Maximum pressure to brake is 3000 psi

BRAKE DISASSEMBLY PROCEDURE (Ref Fig 2)

- With shaft protrusion downward, disassemble in the following order
- Remove Bolts (28) alternately Use extreme caution as the free length of Springs (16) will cause the Power Plate (25) assembly to "pop off" the housing as soon as threaded engagement between the holts and housing is lost
- Remove Power Plate (25) assembly, Springs (16), O Ring (14), Stationary Discs (8 & 17), Rotating Discs (18), Primary Disc (7), Pins (6 & 9) and Springs (13).
- Further disassembly is not recommended and should not be attempted unless necessary for replacement of specific parts If necessary, proceed as follows
- Remove Seal (1), this will be ruined and must be replaced. CAUTION Be extra careful not to damage the adjacent bearing seal
- 1. 6 Remove Retaining Ring (2) The Shaft (15) and Bearing (3) may then be removed from Housing (5) by tapping the motor end of the shaft with a plastic mallet
- 7. Remove Retaining Ring (10) The Bearing (3) can be removed from the Shaft (15) by supporting the inner race of the bearing and applying pressure to the shaft
- 8 Remove Pistons (12) from Housing (5) by introducing low pressure air 15 psi maximum - to the hydraulic inlet Make sure the pistons are directed away from the operator Remove O-Rings (11)

- 9 Remove the Piston (20) from the Power Plate (25) by introducing low pressure air -15 psi - into the hydraulic inlet. Make sure piston is directed away from the operator Remove O-Rings (22 & 24) and Backup Rings (21 & 23) from the piston OD and ID grooves Backup rings will be damaged and should not be removed if replacement is not planned
- 10 Pressure Relief Valve (26) can be removed and inspected to assure spring-loaded ball moves freely and is free of contamination.

ASSEMBLY PROCEDURE

F73276

MAR 90

IMPORTANT There may be more parts in a service kit than your brake requires. Check the parts list carefully for the exact quantity In the case of springs, space the required quantity equally.

All parts must be thoroughly clean prior to reassembly

Use the reverse of the disassembly procedure with the following notes and additions

- 1. Worn o-rings and damaged or worn teflon backup rings must be replaced prior to reassembly
- 2. Cylinder of the power plate, housing, pistons and o-rings must be clean prior to assembly and pre-lubed with the brake system fluid. See list below for brake system fluid type for Failsafe & Service brake pistons
- If replacement of Pressure Relief Valve (26) is necessary, install 1/2 to 3/4 turns beyond finger tight.
- Visually align the center of cast slots in Piston (20) by lining up the arrow on the piston with 312 dia Torque Pin (6) holes in Power Plate (25) Insure that the cast slots are centered with the 312 dia torque pin holes so that Piston (20) will not strike the ears of Primary Disc (7) and Stationary Discs (8 & 17), causing possible brake failure. See Fig. 3

Depth of piston installation into the Piston surface (at cutouts) power plate is critical DO NOT exceed 120 depth or piston will cock, resulting in a complete loss of braking -Flush to 120 below finished surface

- Rotating discs must be clean and dry There should be no presence of oil on any lining material or mating surfaces of the stationary discs. Worn or heavily scored rotating discs must be replaced
- Assemble the stack components in the following order:
- A) Place Torque Pins (6 & 9) in their respective holes in Housing (5)
- B) Place Primary Disc (7) on Pins (6) being sure to align the holes in the Primary Disc with the pistons (12)
- C) Place one thick Stationary Disc (8) on Torque Pins (9) Then place Springs (16) on Torque Pins (9)
- D) Place one thin Stationary Disc (17) on Torque Pins (6)
- E) Place three Rotating Discs (18) on shaft.
- F) Place one thick Stationary Disc (17) and one thick Stationary Disc (8) on Torque Pins (6)
- Assemble the Power Plate (25) assembly onto the Housing (5) using a shop press Watch closely as the Springs (16) are apt to buckle NOTE Insure that all four torque pins seat properly into matching holes in power plate
- Install Bolts (28) Tighten sequentially, one turn at a time, until Power Plate (25) is properly seated Torque to 55-65 lb ft

BRAKE SYSTEM FLUID TYPE

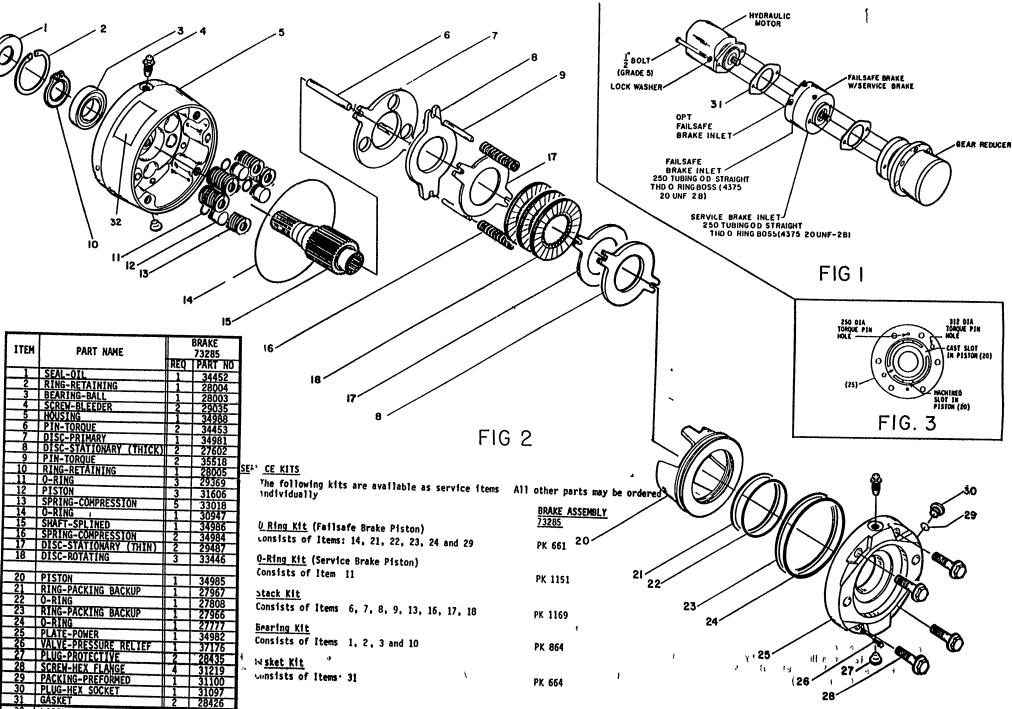
Service Brake Fallsafe Brake (Housing) (Power Plate)
Petroleum Petroleum

 Auto Specialties Manufacturing Co Benten Herbor Michigan 48022 Phone 616/828-086

Printed in U S A

32 LABEL

PART NAME 73285 REO I PART NO 2 RING-RETAINING 3 BEARING-BALL 1 28 2 29 1 34 2 34453 FIG 2 1 28005 SEL CE KITS 3 29369 12 PISTON 13 SPRING-COMPRESSION 3 316 14 O-RING 5 33 BRAKE ASSEMBLY 73285 1 30947 15 SHAFT-SPLINED 1 34986 16 SPRING-COMPRESSION 2 34988 17 DISC-STATIONARY (THIN) 2 29487 U Ring Kit (Failsafe Brake Piston) consists of Items: 14, 21, 22, 23, 24 and 29 ISC-ROTATING 3 33446 O-Ring Kit (Service Brake Piston) Consists of Item 11 | 20 | PISTON | 1 | 34985 | 21 | RING-PACKING BACKUP | 1 | 27967 | 22 | 0-RING | 1 | 27808 | 1 | 27808 | PK 1151 Stack Kit 1 27808 Consists of Items 6, 7, 8, 9, 13, 16, 17, 18 23 RING-PACKING BACKUP 1 27966 PK 1169 1 27777 1 34982 Bearing Kit 25 PLATE-POWER 1 34982 26 VALVE-PRESSURE RELIEF 1 37176 27 PLUG-PROTECTIVE 2 28435 Consists of Items 1, 2, 3 and 10 PK 864 N sket Kit 28 SCREW-HEX FLANGE consists of Items: 31 1 31 PK 664



NET B SERIES

BRAKE FUNCTION

The Failsale Brake is spring loaded to apply the brake and hydraulic pressure is required to release or "hold off" the brake. Normal operation is to have the brake pressurized in the released position with the vehicle hydraulic system running. Any function that reduces the pressure of the hydraulic system below the release pressure of the brake will cause the brake to be applied

The brake is designed to fit with a gear reducer and a hydraulic motor. The common mounting surfaces of the brake the motor and the gear reducer are machined to close tolerances and should be protected from damage during installation and removal

INSTALLATION PROCEDURE (ref FIG 2)

1 Place the gasket (25) onto the mounting face of the brake

Place the brake shall into the gear reducer with the bleeder screw in the vertical position

- Move the brake into position with the geor reducer maintaining proper gasket location. Align the mounting bolt holes by rotating the engaged brake into position. If this is not possible the brake may be rotated after pressure has been applied to the brake inlet. This will release the brake and allow it to be rotated into position
- Similarly place the other gasket onto the flange of the motor
- Insert the shaft of the motor into the brake and push into position, maintaining proper gasket alianment
- 6 Insert the two 1/2 in dia bolts (grade 5) through the motor flange the gasket the brake the second gasket and into the threaded holes in the gear reducer. Make sure that the bolts are not too long so that they do not bottom out in the gear reducer before clamping
- 7 To prevent binding, run the bolts alternately until snug. Then, torque the bolts to 75-85 lb-ft NOTE both shafts must slide together freely -- DO NOT use the bolts to force the unit together
- With motor and brake bolted into position remove cap plug and connect inlet hydraulic line (if not already done for 3) Brake inlet is 250 0D tubing straight thread o-ring bass (438-20 UNF 2B thread)
- 9 Bleed air from brake via bleeder screw 110TE maximum pressure to brake is 3000 psi
- 10 For sump cooling remove one housing plug and fill the brake 1/3-1/2 full of oil Replace plug For flow thru cooling remove both plugs and hydraulic system Do not allow the internal pressure of the brake to exceed 15 psi or seal failure will occur

BRAKE DISASSEMBLY PROCEDURE (ref FIG 1)

- 1 With shall protrusion downward disassemble in the following order bolls (23) alternately power plote (21) gasket (4) and bearing (19)
- 2 Further disassembly is not recommended and should not be attempted unless necessary to replace one or more of the following parts bearing (5) seal (6) or shaft (9) If further dispseembly is required, proceed as follows
 - a) Remove shaft and stock sub-assembly from housing (3) by lightly tapping or pressing on the small external spline end of the shaft and removing the shaft (9) bearing (5) seat (6) and stack from housing (3)
 - Remove bearing (19), stanionary discs (13) rotating discs (12), primary disc (11) and pins (10)
 - Remove bearing (5) from shaft being coreful not to damage seal (6). Remove seal (6) and inspect sealing lip and 0.0 for damage. If damaged replace per reassembly instructions
 - d) Remove springs (8) and spring retainer (7) from housing (3)
- 3 Remove the piston (14) from the power plate (21) by introducing low pressure air (15 psi) into the hydraulic inlet. Make sure the piston is directed away from the operator. Remove o-rings (16 & 18) and back-up rings (15 & 17) from the 1D and 0D grooves of the piston. Back-up rings will be damaged and should not be removed if replacement is not planned

ASSEMLLI IT LELUFE

Use the reverse of the disassembly procedure with the following roles and oddling

IMPCETALL There may be more parts in a service fill than your brake requires the fitte parts list arefully I r the earl quantity in the case I springs space the required quantity equality

- I Have sure all parts are thoroughly lean before reassembly
- form a mings and damaged or worm tellon back-up mings must be replaced prior to reassembly
- The cylinder of the coner plate the piston and the periods must be clean that it reassembly and the lubed with it's hydraulic system fluid
- 4 Assemble ciston (14) into power plate (21) using a stup press, being careful not to domage the o-rings or tellon back-up rings. Visually align the center of the cutouts in the piston with the torque pin (10) holes in the power plate (21) <u>CAUTION</u> the depth the riston is installed into the rower plate is critical. The surface of the piston of the culculs must be flush to 120 in below the surface of the power plate. Du fiot exceed the 120 depth or pisten mil cout resulting in a complete loss of braking
- Install bearing (5) into housing (3) Bearing must be seated against shoulder in housing
- Before installing seal (6) lubricate the lip of the seal with system hydraulic fluid or other suitable lubricant. Face the lip of the seal toward the inside of the brake in order to keep the oil inside the brake

Install seal (f) into housing be pressing evenly around OD of the seal. Use care to avoid cocking

The edge of the seal must be installed flush to surface of housing

B Install shall (9) into housing. Support the inner race of bearing (5) when pressing shall into bearing

Rotaling discs must be clean and dry. The lining material and making surfaces of the stationary discs must be clean. Worn or heavily scored rotating discs must be replaced

Install gasket (4) Be sure to properly alian. After installing all the remaining internal components of the

brake install bearing (19)

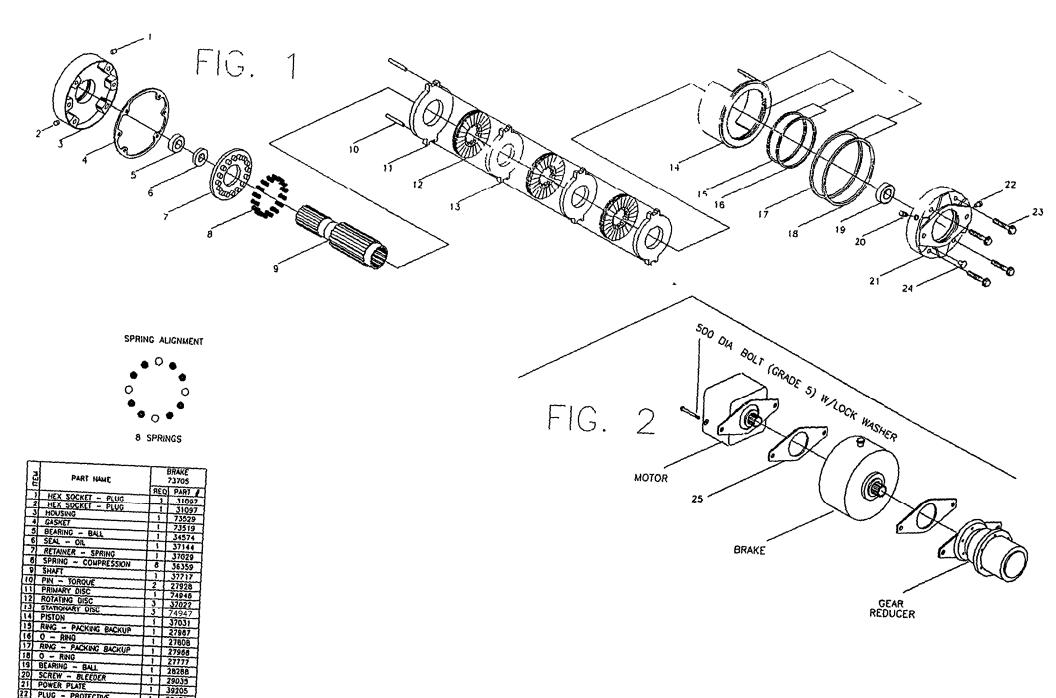
11 Install the power plate sub-assembly. Use a shop press to evenly lower plate into position. There should be no gap at the OD when the power plate is properly seated against housing. If a shop press is not available use the assembly bolts (23) Tighten sequentially one turn at a time until power plate is properly sealed Torque to 50-60 lb-ft

SERVICE YITS

Ite following bits are available as service items. All other parts may be ordered individually

BEARING FIT Cortains items 6 19	73705 PK 95	
STACY PIT Cortains items 8 10 11 12 13	PK 1220	
O-RING VIT Contains items 4 15 16 17 18	PK 1221	~
GASPET KIT Contains items	PK 664	

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THIS DRAWING REPRESENTS A GENERAL ASSEMBLY ALIGNMENT CONSULT PARTS LIST FOR EXACT PARTS AND QUANTITIES FOR

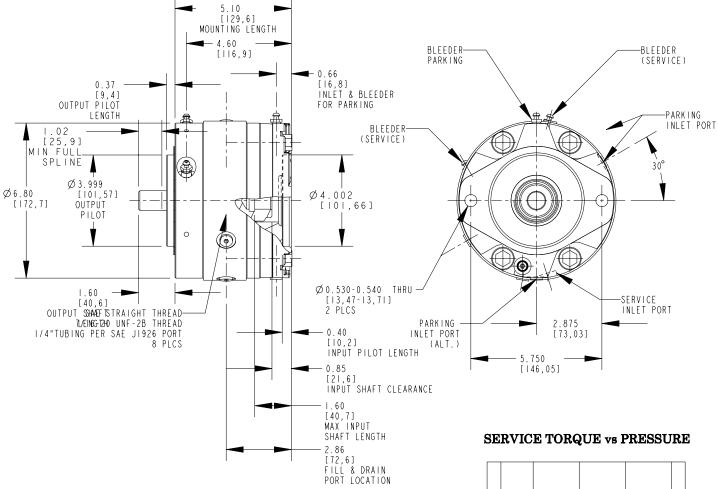
4 31219

2 28425

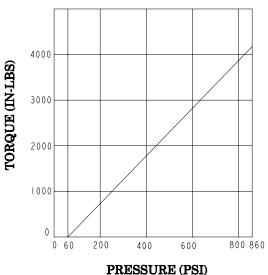
22 PLUG - PROTECTIVE
23 SCREW - HEX FLANGE
24 HEX SOCKET - PLUG

25 CASKET

74030 SAE "B" WITH SERVICE



PISTON TYPE	SERVICE	PARKING		
RATED TORQUE	SEE CHART	3200 (362)		
FULL RELEASE PRESSURE	SEE CHART	185 (11)		
INPUT SPLINE (INTERNAL)	ANSI SIDE	ANST B92.1		
OUTPUT SPLINE (EXTERNAL)	13T 16/32 ANSI B92.1 SIDE FIT 30° PRESSURE ANGLE			
OIL FILL VOLUME HORIZONTAL (mL)	70 ml			
OIL FILL VOLUME VERTICAL (mL)	37	0 ml		
O-RING SERVICE KIT	PK-1221	PK-1225		
STACK SERVICE KIT	PK-1226			
BEARING SERVICE KIT	PK-864			
GASKET SERVICE KIT	PK-1362			



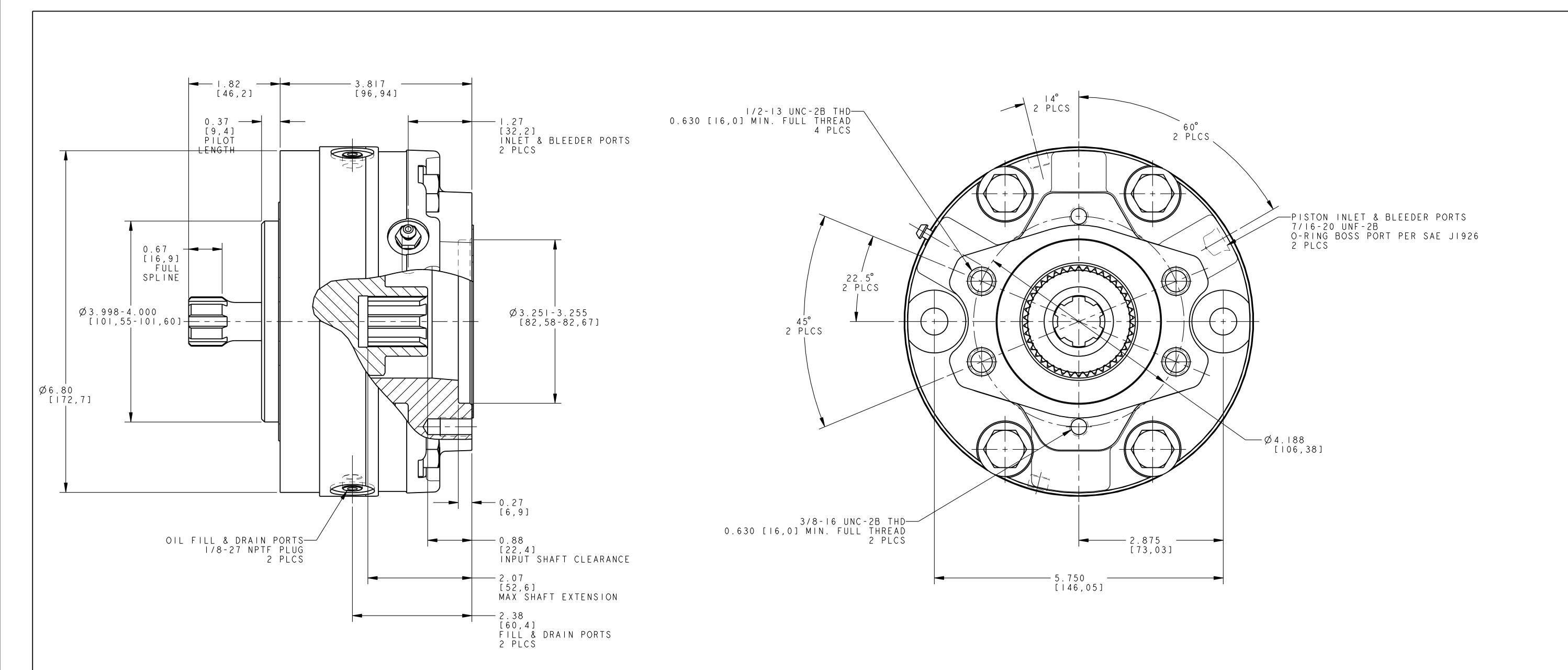
- UNITS: LENGTH, DIAMETER = IN (mm), PRESSURE = PSI (BAR), TORQUE = LBS IN (Nm)

- MAX OPERATING PRESSURE FOR PARKING is 2,200 PSI (152 BAR).
 PRESSURE SPIKES OR SURGES ARE NOT TO EXCEED 3,000 PSI (207 BAR).
 BRAKE CAVITY COOLING OIL PRESSURE NOT TO EXCEED 15 PSI (1 BAR).
 MAXIMUM SERVICE PRESSURE NOT TO EXCEED 800 PSI. (55 BAR).

- MAXIMUM OPERATING SPEED IS 3,500 RPM.
 FOR VERTICAL APPLICATION, CONTACT AUSCO FOR MAX SPEED DETAILS.
- REVIEW IMPORTANT NOTES ON GENERAL INFORMATION.



BAS 01-27-05 LTC



NOTES:

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- 2. THE TORQUE INFORMATION CONTAINED IN THIS DOCUMENT IS FOR REFERENCE ONLY. IT IS RECOMMENDED THAT THIS BRAKE BE TESTED IN THE SPECIFIC APPLICATION TO VERIFY PERFORMANCE.
- 3. MAXIMUM OPERATING PRESSURE IS 3000 PSI [207 BAR]. PRESSURE SPIKES AND SURGES NOT TO EXCEED 4000 PSI [276 BAR].
- 4. BRAKE CAVITY COOLING OIL PRESSURE NOT TO EXCEED 15 PSI [I BAR].
- 5. FILL HOUSING WITH THE SPECIFIED QUANTITY OF DTE-26. THE AMOUNT OF OIL NEEDED IS DEPENDENT UPON THE SHAFT ORIENTATION. IF THE SHAFT IS INSTALLED IN A HORIZONTAL POSITION, THE AMOUNT OF OIL ADDED TO THE BRAKE WILL BE DIFFERENT THAN IF THE SHAFT IS INSTALLED VERTICALLY.

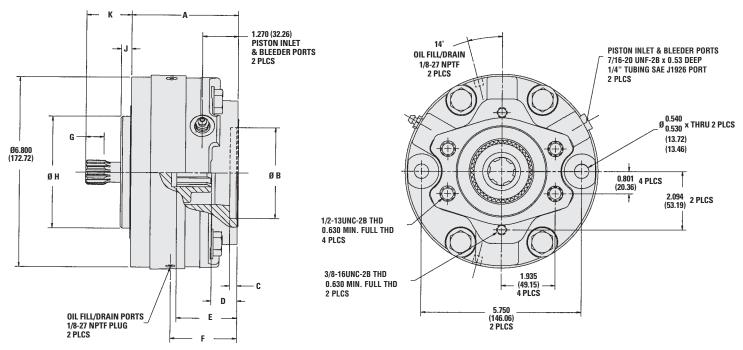
 HORIZONTAL POSITION: 160 ML

 VERTICAL POSITION: 320 ML
- 6. MAXIMUM OPERATING SPEEDS:
 HORIZONTAL SHAFT ORIENTATION: 5000 RPM
 VERTICAL SHAFT ORIENTATION: CONTACT AUSCO ENGINEERING

RATED TORQUE	3800 IN–LBS [429 Nm]		
FULL RELEASE PRESSURE	240 PSI [17 BAR]		
INPUT SPLINE (INTERNAL)	SAE 6B		
	1.00 O.D.		
	PARALLEL		
	SIDE FIT		
OUTPUT SPLINE (EXTERNAL)	SAE 6B		
	1.00 O.D.		
	PARALLEL		
	SIDE FIT	DO NOT SCALE THIS DRAWING	
HORIZONTAL OIL FILL	160 mL	PROPRIETARY DATA: NOT TO RE	AUSCO PRO/E
VERTICAL OIL FILL	320 mL	DISCLOSED, USED, OR DUPLICATED FOR PROCUREMENT OR MANUFACTURING PURPOSES, EXCEPT AS AUTHORIZED IN WRITING BY AUSCO, INC.	NO MANUAL CHANGES
BEARING SERVICE KIT	PK-1320	PROJECT DATE	PART NAME CATALOG SHEET
STACK SERVICE KIT	PK-1323	4344 08-05-96	BRAKE M/D "MAB" WET
O-RING SERVICE KIT	PK-1324	DESIGNER	SCALE PART NUMBER
GASKET SERVICE KIT	PK-1356	H. BALDEOSINGH	[1.000] 75120

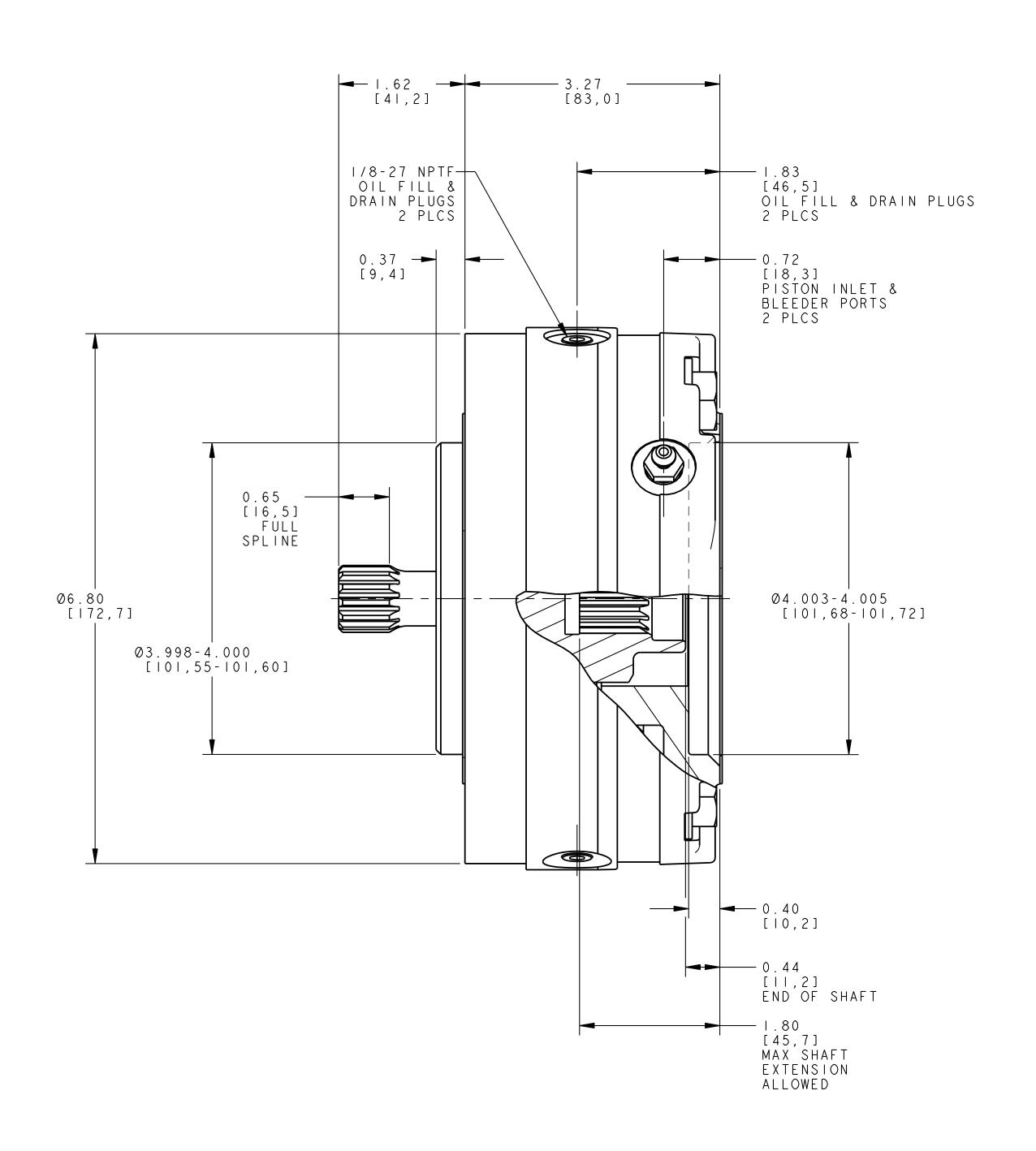
Modified SAE 'A' to SAE 'B' Mount - WET

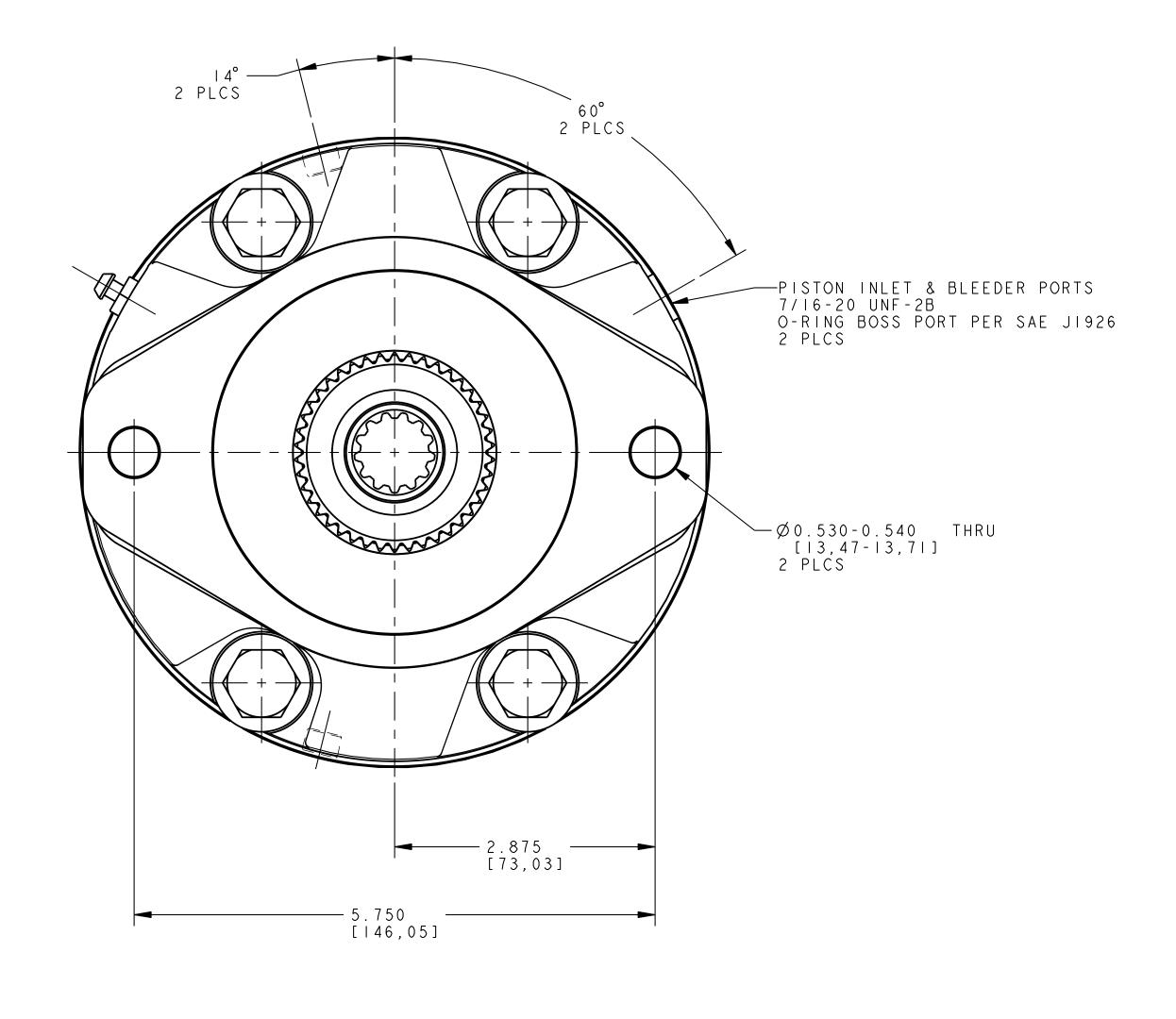




DESCRIPTION	75105	75110	75115	75120	75125
Rated Torque	1540 (174)	2600 (294)	3200 (362)	3800 (429)	3800 (429)
Full Release Pressure	190 (13)	180 (12)	220 (15)	240 (17)	240 (17)
Input Spline (Internal)	13T 16/32 ANSI B92.1 Side Fit 30° PA	SAE 6B 1.00 O.D. Parallel Side Fit	SAE 6B 1.00 O.D. Parallel Side Fit	SAE 6B 1.00 O.D. Parallel Side Fit	SAE 6B 1.00 O.D. Parallel Side Fit
Output Spline (External)	13T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA	SAE 6B 1.00 O.D. Parallel Side Fit	SAE 6B 1.00 O.D. Parallel Side Fit	13T 16/32 ANSI B92.1 Side Fit 30° PA
A-Mounting Length	3.440 (87.38)	3.820 (97.03)	3.820 (97.03)	3.820 (97.03)	3.820 (97.03)
B-Input Pilot Diameter	3.253 (82.63)	3.253 (82.63)	3.253 (82.63)	3.253 (82.63)	3.253 (82.63)
C-Input Pilot Length	0.270 (6.86)	0.270 (6.86)	0.270 (6.86)	0.270 (6.86)	0.270 (6.86)
D-Input Shaft Clearance	0.640 (16.26)	0.920 (23.37)	0.880 (22.35)	0.880 (22.35)	0.920 (23.37)
E- Max Input Shaft Length	1.840 (46.74)	2.170 (55.12)	2.060 (52.32)	2.060 (52.32)	2.170 (55.12)
F- Fill/Drain Plug Locations	2.380 (60.45)	2.380 (60.45)	2.380 (60.45)	2.380 (60.45)	2.380 (60.45)
G-Min Full Spline Length	0.650 (16.51)	0.650 (16.51)	0.650 (16.51)	0.650 (16.51)	0.650 (16.51)
H-Output Pilot Diameter	3.999 (101.58)	3.999 (101.58)	3.253 (82.63)	3.999 (101.58)	3.999 (101.58)
J- Output Pilot Length	0.370 (9.40)	0.370 (9.40)	0.270 (6.86)	0.370 (9.40)	0.370 (9.40)
K-Output Shaft Length	1.620 (41.15)	1.620 (41.15)	1.700 (43.18)	1.820 (46.23)	1.620 (41.15)
Oil Fill Volume Horizontal (ml)	100	160	160	160	160
Oil Fill Volume Vertical (ml)	250	320	320	320	320
O-Ring Service Kit	PK-1324	PK-1324	PK-1324	PK-1324	PK-1324
Stack Service Kit	PK-1322	PK-1323	PK-1323	PK-1323	PK-1323
Bearing Service Kit	PK-1320	PK-1320	PK-1320	PK-1320	PK-1320
Gasket Service Kit	PK-1356	PK-1356	PK-1356	PK-1356	PK-1356

- Units: length/diameter = in (mm), pressure = psi (bar), torque = lbs in (Nm)
- Maximum operating pressure is 3,000 psi. (207 bar). Pressure spikes or surges not to exceed 4,000 psi. (276 bar).
- Brake cavity cooling oil pressure not to exceed 15 psi. (1 bar).
- Maximum brake speed is 5,000 rpm.





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- 2. THE TORQUE INFORMATION CONTAINED IN THIS DOCUMENT IS FOR REFERENCE ONLY. IT IS RECOMMENDED THAT THIS BRAKE BE TESTED IN THE SPECIFIC APPLICATION TO VERIFY PERFORMANCE.
- 3. MAXIMUM OPERATING PRESSURE IS 3,000 PSI [207 BAR]. PRESSURE SPIKES AND SURGES NOT TO EXCEED 4000 PSI [276 BAR].
- 4. BRAKE CAVITY COOLING OIL PRESSURE NOT TO EXCEED 15 PSI [I BAR].
- 5. FILL HOUSING WITH THE SPECIFIED QUANTITY OF DTE-26. THE AMOUNT OF OIL NEEDED IS DEPENDENT UPON THE SHAFT ORIENTATION. IF THE SHAFT IS INSTALLED IN A HORIZONTAL POSITION, THE AMOUNT OF OIL ADDED TO THE BRAKE WILL BE DIFFERENT THAN IF THE SHAFT IS INSTALLED VERTICALLY.

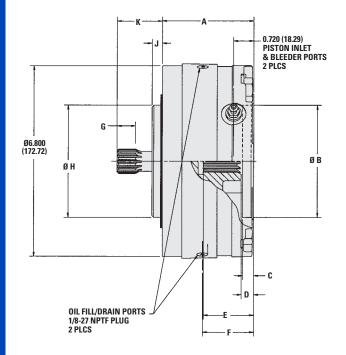
 HORIZONTAL POSITION: 160 ML MAX SPEED 5000 RPM VERTICAL POSITION: 320 ML CONTACT AUSCO FOR MAX SPEED

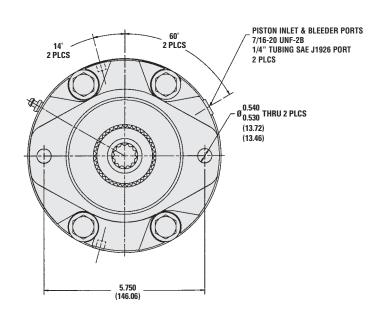
RATED TORQUE	2600 IN-LBS [294 Nm]
FULL RELEASE PRESSURE	180 PSI [12 BAR]
INPUT SPLINE (INTERNAL)	13T 16/32 ANSI B92.I SIDE FIT 30° PRESSURE ANGLE
OUTPUT SPLINE (EXTERNAL)	I3T 16/32 ANSI B92.I SIDE FIT 30° PRESSURE ANGLE
OLL FILL VOLUME HORIZONTAL	160 ml

	SIDE FIT 30° PRESSURE ANGLE	DO NOT SCALE THIS DRAWING	
OIL FILL VOLUME HORIZONTAL	160 mL 320 mL	PROPRIETARY DATA: NOT TO BE DISCLOSED, USED, OR DUPLICATED FOR PROCUREMENT OR MANUFACTURING PURPOSES, EXCEPT AS AUTHORIZED	CREATED WITH PRO/E NO MANUAL CHANGES
OIL FILL VOLUME VERTICAL BEARING SERVICE KIT	PK-1320	PROJECT DATE	PART NAME
STACK SERVICE KIT	PK-1323	4579 08-08-96	
O-RING SERVICE KIT GASKET KIT	PK-1324 PK-1325	DESIGNER H. BALDEOSINGH	SCALE PART NUMBER 1.000 75230

SAE 'B' Mount – WET







DESCRIPTION	75220	75225	75230	75255	75130	75260
Rated Torque	1540 (174)	1800 (203)	2600 (294)	3200 (362)	3200 (362)	3800 (429)
Full Release Pressure	190 (13)	140 (10)	180 (12)	220 (15)	220 (15)	240 (17)
Input Spline (Internal)	13T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA	15T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA
Output Spline (External)	13T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA	15T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA	13T 16/32 ANSI B92.1 Side Fit 30° PA
A-Mounting Length	2.890 (73.40)	3.270 (83.06)	3.270 (83.06)	3.270 (83.06)	3.270 (83.06)	3.270 (83.06)
B-Input Pilot Diameter	4.002 (101.65)	4.002 (101.65)	4.002 (101.65)	4.002 (101.65)	4.002 (101.65)	4.002 (101.65
C-Input Pilot Length	0.400 (10.16)	0.400 (10.16)	0.400 (10.16)	0.400 (10.16)	0.400 (10.16)	0.400 (10.16)
D-Input Shaft Clearance	0.440 (11.18)	0.440 (11.18)	0.440 (11.18)	0.440 (11.18)	0.440 (11.18)	0.440 (11.18)
E-Max Input Shaft Length	1.800 (45.72)	1.800 (45.72)	1.800 (45.72)	1.800 (45.72)	1.800 (45.72)	1.800 (45.72)
F-Fill/Drain Plug Locations	1.830 (46.48)	1.830 (46.48)	1.830 (46.48)	1.830 (46.48)	1.830 (46.48)	1.830 (46.48)
G-Min Full Spline Length	0.650 (16.51)	0.650 (16.51)	0.650 (16.51)	0.650 (16.51)	0.650 (16.51)	0.650 (16.51)
H-Output Pilot Diameter	3.999 (101.57)	3.999 (101.57)	3.999 (101.57)	3.999 (101.57)	3.999 (101.57)	3.999 (101.57
J-Output Pilot Length	0.370 (9.40)	0.370 (9.40)	0.370 (9.40)	0.370 (9.40)	0.370 (9.40)	0.370 (9.40)
K-Output Shaft Length	1.620 (41.15)	1.620 (41.15)	1.620 (41.15)	1.620 (41.15)	1.620 (41.15)	1.620 (41.15)
Oil Fill Volume Horizontal (ml)	100	160	160	160	160	160
Oil Fill Volume Vertical (ml)	250	320	320	320	320	320
0-Ring Service Kit	PK-1324	PK-1324	PK-1324	PK-1324	PK-1324	PK-1324
Stack Service Kit	PK-1322	PK-1323	PK-1323	PK-1323	PK-1323	PK-1323
Bearing Service Kit	PK-1320	PK-1320	PK-1320	PK-1320	PK-1320	PK-1320
Gasket Service Kit	PK-1325	PK-1325	PK-1325	PK-1325	PK-1325	PK-1325

- Units: length/diameter = in (mm), pressure = psi (bar), torque = lbs in (Nm)
- Maximum operating pressure is 3,000 psi. (207 bar). Pressure spikes or surges not to exceed 4,000 psi. (276 bar).
- Brake cavity cooling oil pressure not to exceed 15 psi. (1 bar).
- Maximum operating speed is 5,000 rpm.



BRAKE NUMBER 75628 SERVICE NOTES

ECO 22055 REV D

THE MULTI-DISC BRAKE IS A SPRING-APPLIED, HYDRAULICALLY RELEASED BRAKE. HYDRAULIC PRESSURE IS REQUIRED TO RELEASE OR "HOLD OFF" THE BRAKE. NORMAL OPERATION IS TO HAVE THE BRAKE PRESSURIZED IN THE RELEASED POSITION WITH THE VEHICLE HYDRAULIC SYSTEM RUNNING. ANY FUNCTION WHICH REDUCES THE HYDRAULIC SYSTEM BELOW THE RELEASE PRESSURE OF THE BRAKE WILL CAUSE THE BRAKE TO BE APPLIED

CAUTION:

FOR CORRECT OPERATION, HYDRAULIC PRESSURE TO THE BRAKE MUST FALL TO ZERO PSI. ANY RESIDUAL BACK PRESSURE APPLIED TO THE BRAKE WILL DEGRADE FUNCTION AND MAY RESULT IN A HAZARDOUS CONDITION.

INSTALLATION INFORMATION:

ASSEMBLE BRAKE BETWEEN MOTOR AND GEARBOX. PLACE MOUNTING GASKETS ON THE MOUNTING FACES BEFORE ASSEMBLY. IF NEEDED, BRAKE SHAFT CAN BE ROTATED BY APPLYING HYDRAULIC PRESSURE TO THE PISTON INLET PORT.

INSERT FOUR 1/2" DIA. BOLTS (GRADE 5) THROUGH THE MOTOR FLANGE, THE GASKET, THE BRAKE, AND INTO THE THREADED HOLES IN THE GEAR REDUCER. MAKE SURE THAT THE BOLTS ARE NOT TOO SO THEY DO NOT BOTTOM OUT IN THE THREADED HOLES OF THE GEAR REDUCER.

TO PREVENT BINDING, RUN THE BOLTS IN ALTERNATELY UNTIL SNUG. TORQUE BOLTS TO 55-65 FT.-LBS.
NOTE: THE SHAFTS MUST SLIDE TOGETHER FREELY. DO NOT USE THE BOLTS TO FORCE THEM TOGETHER.

WITH MOTOR AND BRAKE BOLTED TOGETHER INTO POSITION, CONNECT INLET HYDRAULIC LINE. BRAKE INLET IS 1/4" LINE STRAIGHT THREAD O-RING BOSS (7/16-20 UNF).

BRAKE DISASSEMBLY INFORMATION:

- DISASSEMBLE IN THE FOLLOWING ORDER: BOLTS (ALTERNATELY). POWER PLATE, GASKET, STATIONARY DISCS, ROTATING DISCS, PRIMARY DISC, TORQUE PINS, COMPRESSION SPRINGS, AND SPRING RETAINER. FURTHER DISASSEMBLY IS NOT RECOMMENDED AND SHOULD NOT
- BE ATTEMPTED UNLESS NECESSARY TO REPLACE THE BEARING,

THE SEAL, OR THE SHAFT. NOTE: IF THE BEARING AND SEAL ARE REMOVED FOR

- NOTE: IF THE BEARING AND SEAL ARE REMOVED FOR
 ANY REASON, BOTH MUST BE REPLACED.
 20. REMOVE SNAP RINGS AS NEEDED.
 25. SEAL CAN BE REMOVED BY PRYING IT OUT
 WITH AN APPROPRIATE TOOL. TAKE CARE
 NOT TO DAMAGE THE BORE.
 2c. SHAFT CAN BE REMOVED BY PRESSING IT
 OUT WITH A SHOP PRESS.
 REMOVE THE PISTON FROM THE POWER PLATE BY INTRODUCING
 LOW PRESSURE AIR (15 psi) INTO THE HYDRAULIC INLET.
 MAKE SURE THE PISTON IS DIRECTED AWAY FROM THE
 OPERATOR. DO NOT REMOVE O-RINGS AND BACKUP RINGS FROM THE
 O.D. AND I.D. GROOVES OF THE PISTON UNLESS REPLACEMENT
 IS NECESSARY, BECAUSE THEY WILL BE DAMAGED.

ASSEMBLY INFORMATION:

THERE MAY BE MORE PARTS IN A SERVICE IMPORTANT: THE MAI YOUR BRAKE REQUIRES. CHECK
THE PARTS LIST CAREFULLY FOR THE
EXACT QUANTITY. SPACE THE SPRINGS
AS SHOWN ON THE SPRING ORIENTATION VIEW.

USF THE REVERSE OF THE DISASSEMBLY PROCEDURE WITH THE FOLLOWING NOTES AND ADDITIONS:

- WORN AND DAMAGED O-RINGS AND BACKUP RINGS MUST BE REPLACED PRIOR TO RE-ASSEMBLY.
- 2. LUBRICATE THE PISTON BORE OF THE POWER PLATE, THE PISTON, AND THE O-RINGS WITH SYSTEM HYDRAULIC FLUID PRIOR TO RE-ASSEMBLY.
- 3. PISTON ASSEMBLY PISTON ASSEMBLY:

 ASSEMBLE PISTON INTO POWER PLATE USING A SHOP PRESS. TAKE CARE NOT TO DAMAGE THE O-RING OR TEFLON BACKUP RINGS. VISUALLY ALIGN THE CENTER OF THE CUTOUTS IN THE PISTON WITH THE TORQUE PIN HOLES IN THE POWER PLATE.

 CAUTION: THE DEPTH THE PISTON IS INSTALLED INTO THE POWER PLATE IS CRITICAL. THE SURFACE OF THE PISTON AT THE CUTOUTS MUST BE FLUSH TO 0.120 BELOW THE SURFACE OF THE POWER PLATE, OR PISTON MAY COCK RESULTING IN A COMPLETE IOSS OF MAY COCK RESULTING IN A COMPLETE LOSS OF BRAKING.
- 4. BEARING ASSEMBLY: <u>JEARING ASSEMBLI:</u>
 USE A SHOP PRESS TO PRESS THE BEARING ONTO
 THE SHAFT. PRESS ONLY ON THE INNER RACE OF THE
 BEARING. BEARING IS A SLIP FIT TO THE HOUSING.
- 5. <u>LIP SEAL ASSEMBLY:</u> LIP OF SEAL MUST FACE TOWARD THE BEARING SEE CUTAWAY VIEW FOR SEAL ORIENTATION DETAIL.
- 6. ROTATING, STATIONARY, AND PRIMARY DISC ASSEMBLY:
 ROTATING DISCS MUST BE CLEAN & DRY. THE LINING
 MATERIAL AND MATING SURFACES OF THE STATIONARY DISCS MUST BE THOROUGHLY CLEAN AND FREE FROM DEBRIS. WORN OR SCARRED ROTATING DISCS MUST BE REPLACED.
- 7. INSTALL BOLTS IN THE POWER PLATE. TIGHTEN SEQUENTIALLY ONE TURN AT A TIME UNTIL POWER PLATE IS PROPERLY SEATED. TORQUE BOLTS TO 80-90 FT-LBS.

<u>FILL</u>PROCEDURF:

UNSCREW THE TOP OIL FILL PLUG AND ADD DTE-26 OIL TO THE APPROPRIATE LEVEL.

SERVICE KIT INFORMATION:

BEARING KIT: PK - 933 - INCLUDES SEALS, RETAINING RINGS, AND BEARINGS.

STACK KIT: PK - 1370 - INCLUDES TORQUE PINS, PRIMARY, STATIONARY, ROTATING DISCS AND COMPRESSION SPRINGS.

> PK - 1368 - INCLUDES O-RINGS BACKUP RINGS, AND I NTERNAL GASKET.

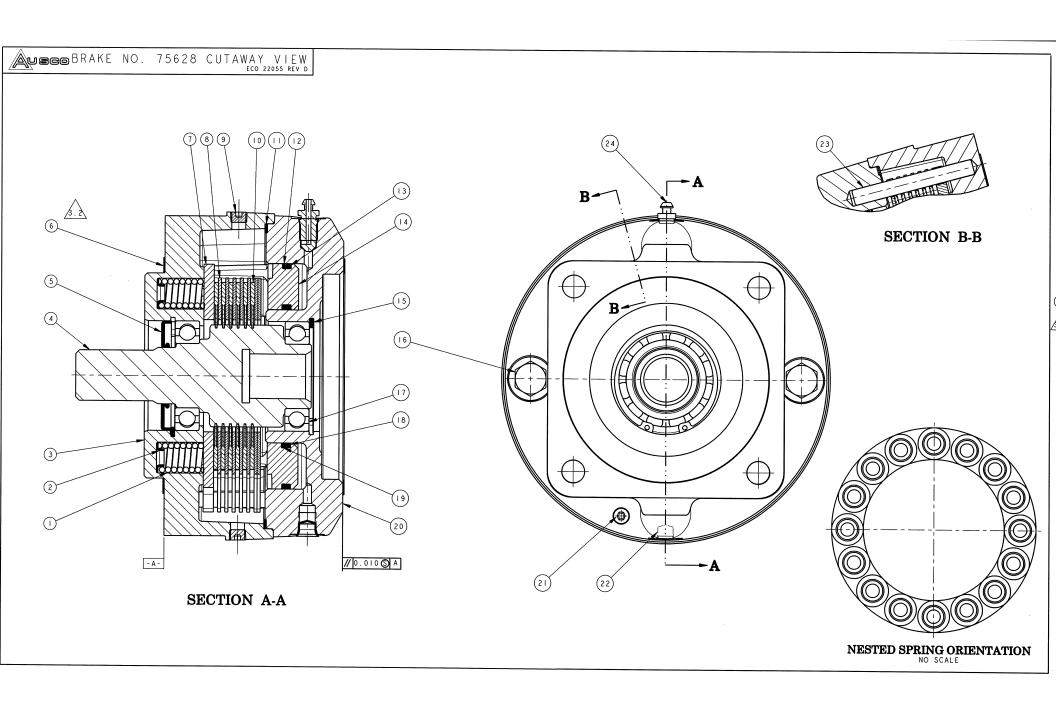
PK - 679 - INCLUDES EXTERIOR GASKET KIT: GASKET(S).

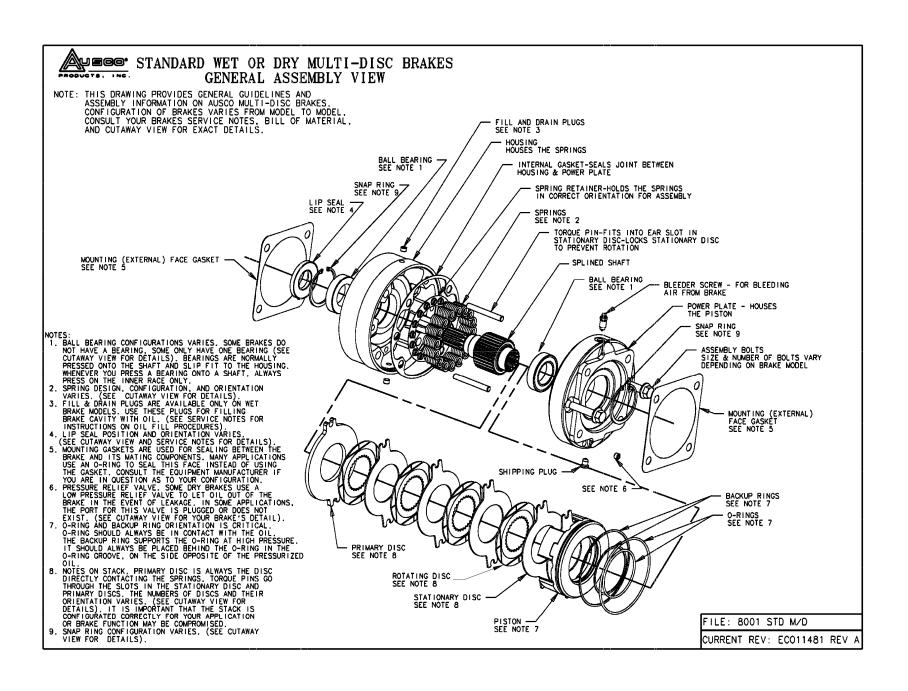
O-RING KIT:

REF: GENERAL ASSEMBLY VIEW 8001

BRAKE NUMBER 75628 PARTS LIST

PRODUCT	S, INC.	ECO 22055	REV D
ITEM	PART	DESCRIPTION	QTY
	36359	COMPRESSION SPRING	16
2	36367	SPRING RETAINER	
3	75731	HOUSING	
4	75728	SPLINED SHAFT	
5	36342	OIL SEAL	l
6	28427	GASKET	2
7	75071	PRIMARY DISC	l
8	75072	STATIONARY DISC	7
9	75395	PIPE PLUG	2
10	74996	ROTATING DISC	6
	73448	GASKET	-
12	27967	BACKUP RING	
13	27808	O-RING	1
14	75724	PISTON	l
15	28285	RETAINING RING	2
16	31218	HEX FLANGE SCREW	2
17	28284	BALL BEARING	2
18	36701	O-RING	l
19	32833	BACKUP RING	l
20	36337	POWER PLATE	
21	28811	HEX PLUG	l
22	28435	PROTECTIVE PLUG	1
23	27948	TORQUE PIN	2
24	29035	BLEEDER SCREW	
25	75970	CAUTION TAG	l







BRAKE NUMBER 75629 SERVICE NOTES

ECO 22054 REV D

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CAUTION:

FOR CORRECT OPERATION, HYDRAULIC PRESSURE TO THE BRAKE MUST FALL TO ZERO PSI. ANY RESIDUAL BACK PRESSURE APPLIED TO THE BRAKE WILL DEGRADE FUNCTION AND MAY RESULT IN A HAZARDOUS CONDITION.

INSTALLATION INFORMATION:

ASSEMBLE BRAKE BETWEEN MOTOR AND GEARBOX. PLACE MOUNTING GASKETS ON THE MOUNTING FACES BEFORE ASSEMBLY. IF NEEDED, BRAKE SHAFT CAN BE ROTATED BY APPLYING HYDRAULIC PRESSURE TO THE PISTON INLET PORT.

INSERT FOUR 1/2" DIA. BOLTS (GRADE 5) THROUGH THE MOTOR FLANGE, THE GASKET, THE BRAKE, AND INTO THE THREADED HOLES IN THE GEAR REDUCER. MAKE SURE THAT THE BOLTS ARE NOT TOO SO THEY DO NOT BOTTOM OUT IN THE THREADED HOLES OF THE GEAR REDUCER.

TO PREVENT BINDING, RUN THE BOLTS IN ALTERNATELY UNTIL SNUG. TORQUE BOLTS TO 55-65 FT.-LBS.
NOTE: THE SHAFTS MUST SLIDE TOGETHER FREELY. DO NOT USE THE BOLTS TO FORCE THEM TOGETHER.

WITH MOTOR AND BRAKE BOLTED TOGETHER INTO POSITION, CONNECT INLET HYDRAULIC LINE. BRAKE INLET IS 1/4" LINE STRAIGHT THREAD O-RING BOSS (7/16-20 UNF).

BRAKE DISASSEMBLY INFORMATION:

- DISASSEMBLE IN THE FOLLOWING ORDER: BOLTS (ALTERNATELY). POWER PLATE, GASKET, STATIONARY DISCS, ROTATING DISCS, PRIMARY DISC, TORQUE PINS, COMPRESSION SPRINGS, AND SPRING RETAINER. FURTHER DISASSEMBLY IS NOT RECOMMENDED AND SHOULD NOT
- BE ATTEMPTED UNLESS NECESSARY TO REPLACE THE BEARING,

THE SEAL, OR THE SHAFT. NOTE: IF THE BEARING AND SEAL ARE REMOVED FOR

- NOTE: IF THE BEARING AND SEAL ARE REMOVED FOR
 ANY REASON, BOTH MUST BE REPLACED.
 20. REMOVE SNAP RINGS AS NEEDED.
 25. SEAL CAN BE REMOVED BY PRYING IT OUT
 WITH AN APPROPRIATE TOOL. TAKE CARE
 NOT TO DAMAGE THE BORE.
 2c. SHAFT CAN BE REMOVED BY PRESSING IT
 OUT WITH A SHOP PRESS.
 REMOVE THE PISTON FROM THE POWER PLATE BY INTRODUCING
 LOW PRESSURE AIR (15 psi) INTO THE HYDRAULIC INLET.
 MAKE SURE THE PISTON IS DIRECTED AWAY FROM THE
 OPERATOR. DO NOT REMOVE O-RINGS AND BACKUP RINGS FROM THE
 O.D. AND I.D. GROOVES OF THE PISTON UNLESS REPLACEMENT
 IS NECESSARY, BECAUSE THEY WILL BE DAMAGED.

ASSEMBLY INFORMATION:

THERE MAY BE MORE PARTS IN A SERVICE IMPORTANT: THE MAI YOUR BRAKE REQUIRES. CHECK
THE PARTS LIST CAREFULLY FOR THE
EXACT QUANTITY. SPACE THE SPRINGS
AS SHOWN ON THE SPRING ORIENTATION VIEW.

USF THE REVERSE OF THE DISASSEMBLY PROCEDURE WITH THE FOLLOWING NOTES AND ADDITIONS:

- I. WORN AND DAMAGED O-RINGS AND BACKUP RINGS MUST BE REPLACED PRIOR TO RE-ASSEMBLY.
- 2. LUBRICATE THE PISTON BORE OF THE POWER PLATE, THE PISTON, AND THE O-RINGS WITH SYSTEM HYDRAULIC FLUID PRIOR TO RE-ASSEMBLY.
- 3. PISTON ASSEMBLY PISTON ASSEMBLY:

 ASSEMBLE PISTON INTO POWER PLATE USING A SHOP PRESS. TAKE CARE NOT TO DAMAGE THE O-RING OR TEFLON BACKUP RINGS. VISUALLY ALIGN THE CENTER OF THE CUTOUTS IN THE PISTON WITH THE TORQUE PIN HOLES IN THE POWER PLATE.

 CAUTION: THE DEPTH THE PISTON IS INSTALLED INTO THE POWER PLATE IS CRITICAL. THE SURFACE OF THE PISTON AT THE CUTOUTS MUST BE FLUSH TO 0.120 BELOW THE SURFACE OF THE POWER PLATE, OR PISTON MAY COCK RESULTING IN A COMPLETE IOSS OF MAY COCK RESULTING IN A COMPLETE LOSS OF BRAKING.
- 4. BEARING ASSEMBLY: <u>JEARING ASSEMBLI:</u>
 USE A SHOP PRESS TO PRESS THE BEARING ONTO
 THE SHAFT. PRESS ONLY ON THE INNER RACE OF THE
 BEARING. BEARING IS A SLIP FIT TO THE HOUSING.
- 5. LIP SEAL ASSEMBLY: LIP OF SEAL MUST TOWARD THE BEARING. SEE CUTAWAY VIEW FOR SEAL ORIENTATION DETAIL.
- 6. ROTATING, STATIONARY, AND PRIMARY DISC ASSEMBLY:
 ROTATING DISCS MUST BE CLEAN & DRY. THE LINING
 MATERIAL AND MATING SURFACES OF THE STATIONARY DISCS MUST BE THOROUGHLY CLEAN AND FREE FROM DEBRIS. WORN OR SCARRED ROTATING DISCS MUST BE REPLACED.
- 7. INSTALL BOLTS IN THE POWER PLATE. TIGHTEN SEQUENTIALLY ONE TURN AT A TIME UNTIL POWER PLATE IS PROPERLY SEATED. TORQUE BOLTS TO 80-90 FT-LBS.

OIL FILL PROCEDURF:

UNSCREW THE TOP OIL FILL PLUG AND ADD DTE-26 OIL TO THE APPROPRIATE LEVEL.

SERVICE KIT INFORMATION:

BEARING KIT: PK - 933 -INCLUDES SEALS RETAINING RINGS.

AND BEARINGS.

PK - 1370 - INCLUDES TORQUE PINS, STACK KIT:

PRIMARY, STATIONARY, ROTATING DISCS AND COMPRESSION SPRINGS.

O-RING KIT: PK- 1368 - INCLUDES O-RINGS

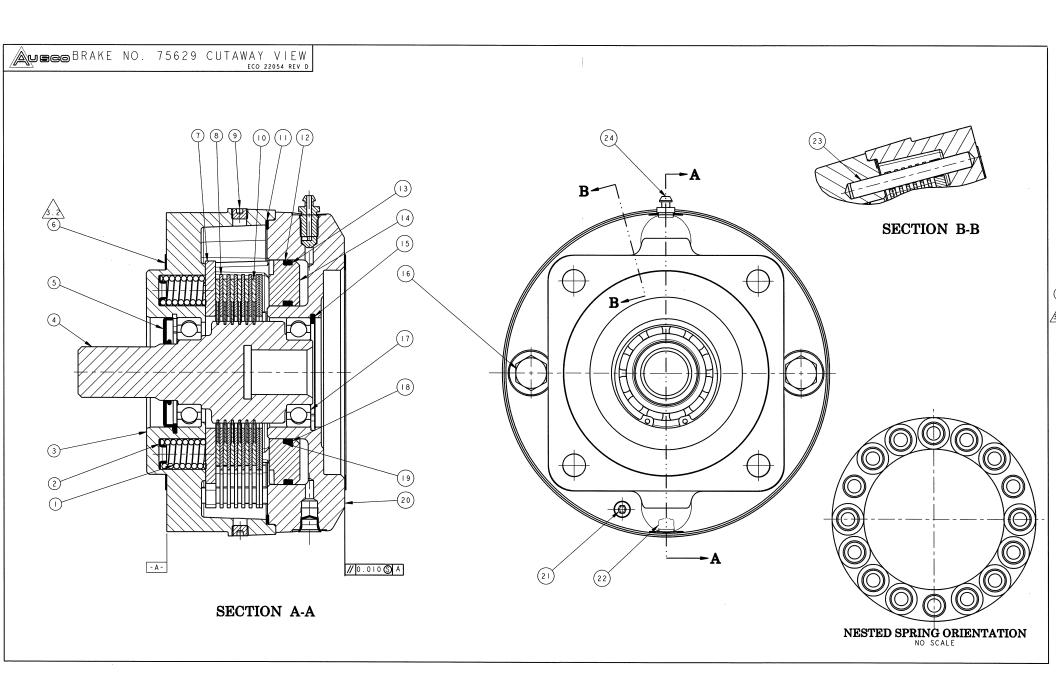
BACKUP RINGS, AND INTERNAL GASKET.

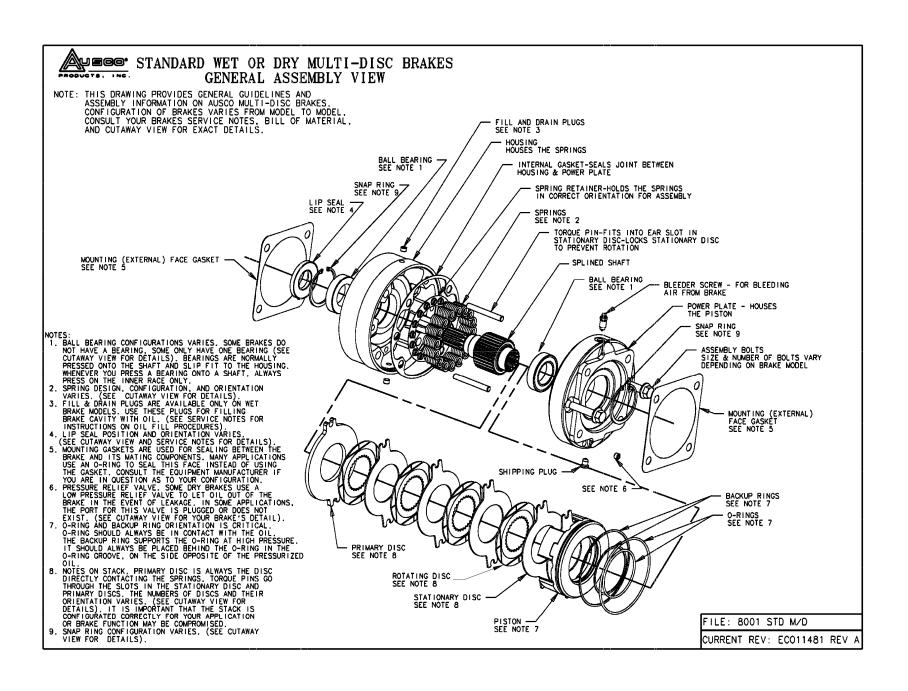
GASKET KIT: PK - 679 - INCLUDES EXTERIOR GASKET(S).

REF: GENERAL ASSEMBLY VIEW 8001

PRODUCTS, INC. BRAKE NUMBER 75629 PARTS LIST ECO 22054 REV D

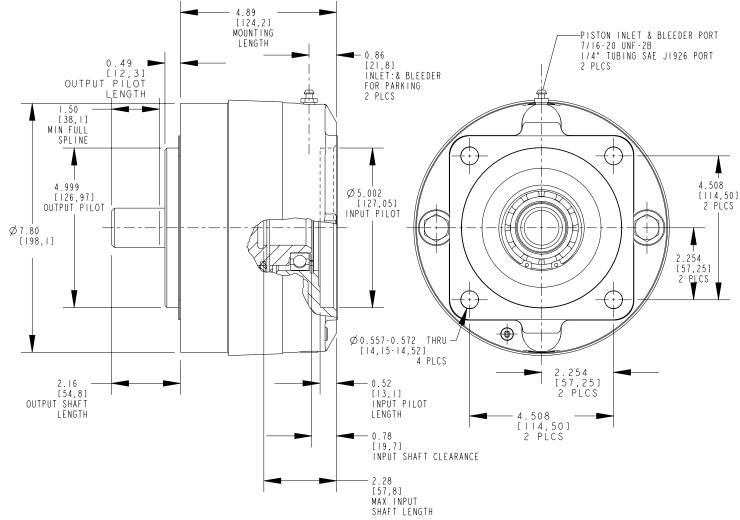
ITEM	PART	DESCRIPTION	QTY
	36359	COMPRESSION SPRING	13
2	36367	SPRING RETAINER	
3	75731	HOUSING	
4	75728	SPLINED SHAFT	1
5	36342	OIL SEAL	
6	28427	GASKET	2
7	75071	PRIMARY DISC	ļ
8	75072	STATIONARY DISC	7
9	75395	PIPE PLUG	2
10	74996	ROTATING DISC	6
11	73448	GASKET	l
12	32833	BACKUP RING	
13	36701	O-RING	
14	75724	PISTON	l
15	28285	RETAINING RING	2
16	31218	HEX. FLANGE SCREW	2
17	28284	BALL BEARING	2
18	27808	O-RING	I
19	27967	BACKUP RING	
20	36337	POWER PLATE	
21	28811	HEX PLUG	
22	28435	PROTECTIVE PLUG	
23	27948	TORQUE PIN	2
24	29035	BLEEDER SCREW	
25	75970	CAUTION TAG	





75633 SAE "C" TO SAE "C"

DRY



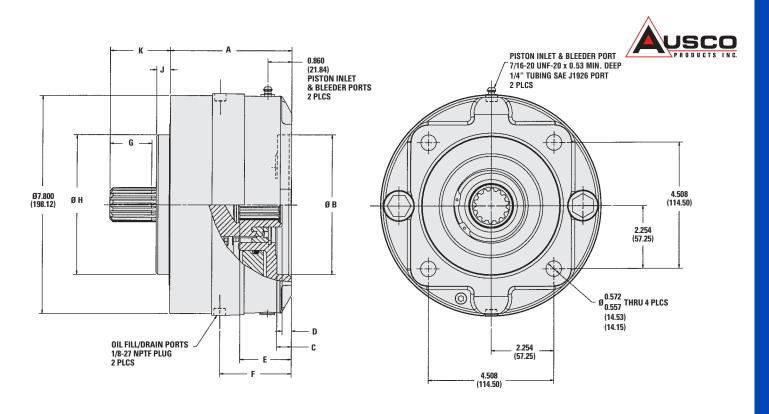
RATED TORQUE	9000 (1017)
FULL RELEASE PRESSURE	230 (16)
INPUT SPLINE (INTERNAL)	14T 12/24 ANSI B92.1 SIDE FIT 30° PRESSURE ANGLE
OUTPUT SPLINE (EXTERNAL)	14T 12/24 ANSI B92.1 SIDE FIT 30° PRESSURE ANGLE
O-RING SERVICE KIT	PK-931
STACK SERVICE KIT	PK-932
BEARING SERVICE KIT	PK-933
GASKET SERVICE KIT	PK-679

- UNITS: LENGTH, DIAMETER = IN (mm), PRESSURE = PSI (BAR), TORQUE = LBS IN (Nm)
- MAX OPERATING PRESSURE FOR PARKING is 3000 PSI (207 BAR).
 PRESSURE SPIKES OR SURGES ARE NOT TO EXCEED 4000 PSI (276 BAR).
 MAXIMUM HORIZONTAL OPERATING SPEED IS 3000 RPM.
 FOR VERTICAL APPLICATION, CONTACT AUSCO FOR MAX SPEED DETAILS.

- REVIEW IMPORTANT NOTES ON GENERAL INFORMATION.



SAE 'C' Mount – WET



DESCRIPTION	76263	76264	75626	75627	75629	75628	76208
Rated Torque	2200 (249)	3300 (373)	4000 (452)	5400 (610)	7200 (814)	9000 (1017)	12500 (1412)
Full Release Pressure	120 (8)	155 (11)	120 (8)	150 (10)	190 (13)	230 (16)	230 (16)
Input Spline (Internal)	14T 12/24 ANSI B92.1 Side Fit 30° PA						
Output Spline (External)	14T 12/24 ANSI B92.1 Side Fit 30° PA						
A-Mounting Length	3.792 (96.32)	3.792 (96.32)	4.349 (110.46)	4.349 (110.46)	4.349 (110.46)	4.349 (110.46)	4.730 (120.14)
B-Input Pilot Diameter	5.002 (127.05)	5.002 (127.05)	5.002 (127.05)	5.002 (127.05)	5.002 (127.05)	5.002 (127.05)	5.002 (127.05)
C-Input Pilot Length	0.515 (13.08)	0.515 (13.08)	0.515 (13.08)	0.515 (13.08)	0.515 (13.08)	0.515 (13.08)	0.515 (13.08)
D-Input Shaft Clearance	0.780 (19.81)	0.780 (19.81)	0.780 (19.81)	0.780 (19.81)	0.780 (19.81)	0.780 (19.81)	0.780 (19.81)
E-Max Input Shaft Length	2.280 (57.91)	2.280 (57.91)	2.280 (57.91)	2.280 (57.91)	2.280 (57.91)	2.280 (57.91)	2.280 (57.91)
F-Fill/Drain Plug Locations	2.500 (63.50)	2.500 (63.50)	2.559 (65.00)	2.559 (65.00)	2.559 (65.00)	2.559 (65.00)	2.940 (74.68)
G-Min Full Spline Length	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)
H-Output Pilot Diameter	4.999 (126.97)	4.999 (126.97)	4.999 (126.97)	4.999 (126.97)	4.999 (126.97)	4.999 (126.97)	4.999 (126.97)
J-Output Pilot Length	0.490 (12.45)	0.490 (12.45)	0.490 (12.45)	0.490 (12.45)	0.490 (12.45)	0.490 (12.45)	0.490 (12.45)
K-Output Shaft Length	2.160 (54.86)	2.160 (54.86)	2.160 (54.86)	2.160 (54.86)	2.160 (54.86)	2.160 (54.86)	2.160 (54.86)
Oil Fill Volume Horizontal (ml)	100	100	150	150	150	150	200
Oil Fill Volume Vertical (ml)	250	250	300	300	300	300	350
0-Ring Service Kit	PK-931	PK-931	PK-1368	PK-1368	PK-1368	PK-1368	PK-1368
Stack Service Kit	PK-938	PK-938	PK-1370	PK-1370	PK-1370	PK-1370	PK-1369
Bearing Service Kit	PK-933						
Gasket Service Kit	PK-679						

- Units: length/diameter = in (mm), pressure = psi (bar), torque = lbs in (Nm)
- Maximum operating pressure is 3,000 psi. (207 bar). Pressure spikes or surges not to exceed 4,000 psi. (276 bar).
- Brake cavity cooling oil pressure not to exceed 15 psi. (1 bar).
- Maximum brake speed is 5,000 rpm.