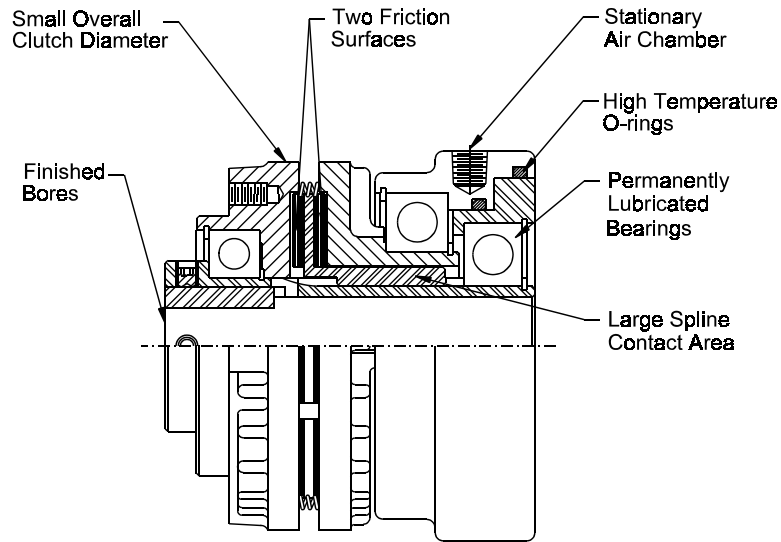


## TSC CLUTCHES

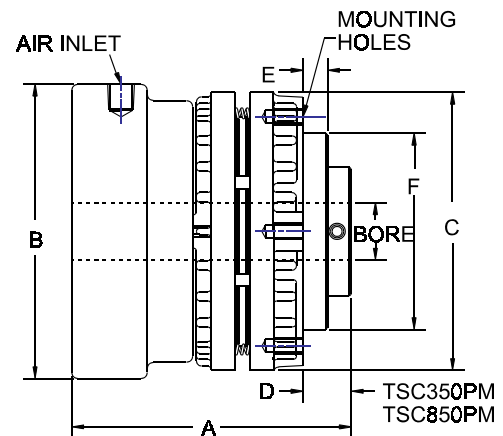
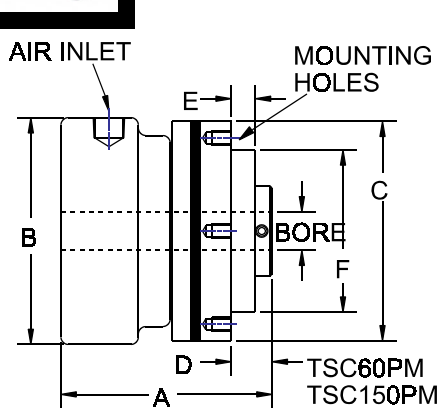


- **Air Actuated Clutch**
- **Pilot Mount Integral Mount (Backplate/Sheave) Models**
- **Mid Shaft or End Shaft Mounting**
- **Straight Bores**
- **High Torque**
- **Compact Design**
- **Permanently Lubricated Bearings**
- **High Temperature Sealing O-rings**
- **Torque Range from 60 in/lbs to 2400 in/lbs**
- **Standard Bore sizes from .625" to 1.625"**

All TSC products use O-rings as dynamic seals, therefore adequate lubrication must be provided in the actuating air circuit to ensure these O-rings do not run dry.



## TSC PILOT MOUNT CLUTCH



### MINIMUM SPROCKET

| CHAIN SIZE | TSC60 | TSC15 | TSC350 | TSC850 |
|------------|-------|-------|--------|--------|
| 25         | 40T   | 49T   | 56T    | -      |
| 35         | 28T   | 34T   | 38T    | 52T    |
| 40         | 22T   | 27T   | 30T    | 39T    |
| 50         | -     | 22T   | 25T    | 32T    |
| 60         | -     | -     | 21T    | 27T    |
| 80         | -     | -     | -      | 22T    |

| MODEL    | TORQUE @ 80 PSI        |                        | HEAT CAPACITY                    | HEAT DISSIPATION WITH BACKPLATE @ 1800 | WK <sup>2</sup> BACKPLATE                               | WK <sup>2</sup> HUB AND CLUTCH DISC                   | WEIGHT              |
|----------|------------------------|------------------------|----------------------------------|--|---|---|---------------------|
|          | STATIC                 | DYNAMIC                |                                  |  |   |   |                     |
| TSC60PM  | 60 IN-LB<br>( 6 Nm )   | 50 IN-LB<br>( 5 Nm )   | 7,500 FT-LB<br>( 10,200 Joule )  | .10 HP<br>( .075 KW )                  | .8 IN <sup>2</sup> LB<br>( 2.3 Kg-Cm <sup>2</sup> )     | .65 IN <sup>2</sup> LB<br>( 1.9 Kg-Cm <sup>2</sup> )  | 3 1/4<br>( 1.5 Kg ) |
| TSC150PM | 150 IN-LB<br>( 16 Nm ) | 125 IN-LB<br>( 14 Nm ) | 15,000 FT-LB<br>( 20,400 Joule ) | .14 HP<br>( .104 KW )                  | 2.5 IN <sup>2</sup> LB<br>( 7.3 Kg-Cm <sup>2</sup> )    | 2.3 IN <sup>2</sup> LB<br>( 6.7 Kg-Cm <sup>2</sup> )  | 7<br>( 3.2 Kg )     |
| TSC350PM | 350 IN-LB<br>( 39 Nm ) | 285 IN-LB<br>( 32 Nm ) | 30,000 FT-LB<br>( 40,800 Joule ) | .22 HP<br>( .164 KW )                  | 9.4 IN <sup>2</sup> LB<br>( 27.5 Kg-Cm <sup>2</sup> )   | 1.9 IN <sup>2</sup> LB<br>( 5.6 Kg-Cm <sup>2</sup> )  | 9<br>( 4.1 Kg )     |
| TSC850PM | 850 IN-LB<br>( 96 Nm ) | 700 IN-LB<br>( 79 Nm ) | 60,000 FT-LB<br>( 81,600 Joule ) | .50 HP<br>( .373 KW )                  | 37.8 IN <sup>2</sup> LB<br>( 110.8 Kg-Cm <sup>2</sup> ) | 8.5 IN <sup>2</sup> LB<br>( 24.9 Kg-Cm <sup>2</sup> ) | 23<br>( 10.4 Kg )   |

### TSC PM

| MODEL    | A                  | B                  | C                  | D                | E               | F                  | MOUNTING HOLES (IN.)   |
|----------|--------------------|--------------------|--------------------|------------------|-----------------|--------------------|--|
| TSC60PM  | 2 3/4<br>( 69.9 )  | 3<br>( 76.2 )      | 2 7/8<br>( 73.0 )  | 11/32<br>( 8.7 ) | 5/16<br>( 7.9 ) | 2.124<br>( 54.0 )  | 10-24NC X 9/32 (7.1) DEEP<br>4 PLACES EQUAL SPACED<br>ON 2.437 (61.9) BOLT CIRCLE DIAMETER       |
| TSC150PM | 3 5/8<br>( 92.1 )  | 4<br>( 101.6 )     | 3 3/4<br>( 95.2 )  | 9/16<br>( 14.3 ) | 1/4<br>( 6.4 )  | 2.499<br>( 63.5 )  | 1/4 - 20NC X 7/16 (11.1) DEEP<br>4 PLACES EQUAL SPACED<br>ON 3.000 (76.2) BOLT CIRCLE DIAMETER   |
| TSC350PM | 4 1/4<br>( 107.9 ) | 4 1/2<br>( 114.3 ) | 4 1/4<br>( 107.9 ) | 3/4<br>( 19.1 )  | 3/8<br>( 9.5 )  | 2.999<br>( 76.2 )  | 1/4 - 20NC X 7/16 (11.1) DEEP<br>4 PLACES EQUAL SPACED<br>ON 4.750 (120.6) BOLT CIRCLE DIAMETER  |
| TSC850PM | 5 1/4<br>( 133.4 ) | 5 5/8<br>( 142.9 ) | 5 7/8<br>( 149.2 ) | 3/4<br>( 19.1 )  | 3/8<br>( 9.5 )  | 3.999<br>( 101.6 ) | 5/16 - 18 NC X 1/2 (12.7) DEEP<br>4 PLACES EQUAL SPACED<br>ON 4.750 (120.6) BOLT CIRCLE DIAMETER |

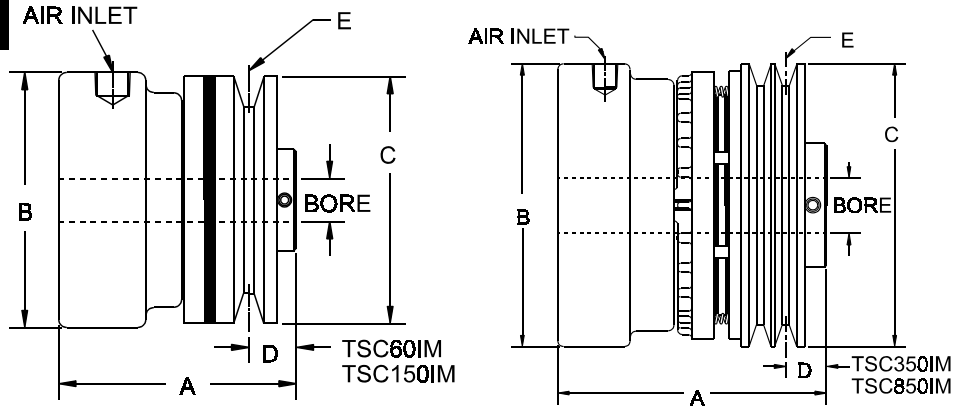
MAXIMUM RPM ALL UNITS 1800

Dimensions shown are for general information only.

Certified prints will be furnished for design and installation purposes.



## TSC INTEGRAL MOUNT CLUTCH



### TSC IM

| MODEL    | A                  | B                  | C                   | D                 | E    | MAXIMUM<br>RPM<br>ALL<br>UNITS<br>1800 |
|----------|--------------------|--------------------|---------------------|-------------------|------|--|
| TSC60IM  | 2 3/4<br>( 69.9 )  | 3<br>( 76.2 )      | 2 7/8<br>( 73.0 )   | 35/64<br>( 13.9 ) | 1G3V |  |
| TSC150IM | 3 5/8<br>( 92.1 )  | 4<br>( 101.6 )     | 3 21/32<br>( 92.9 ) | 21/32<br>( 16.7 ) | 1G3V |  |
| TSC350IM | 4 1/4<br>( 108.0 ) | 4 1/2<br>( 114.3 ) | 4 1/2<br>( 114.3 )  | 21/32<br>( 16.7 ) | 2G3V |  |
| TSC850IM | 5 1/4<br>( 133.4 ) | 5 5/8<br>( 142.9 ) | 5 5/16<br>( 135.0 ) | 29/64<br>( 12.0 ) | 3G3V |  |

| TSC REPAIR KITS  |             |
|--|-------------|
| KIT CONTAINS - Retaining Rings, Bearings, O-Rings, Clutch Disc, Friction Lining, Springs |             |
| MODEL  | PART NUMBER |
| 60IM and PM  | 4228K       |
| 150IM and PM   | 4179K       |
| 350IM and PM   | 4175K       |
| 850IM and PM   | 4182K       |

### STANDARD BORE SIZES FOR TSC MODELS

| MODEL  | ASSEMBLY | BORE              | KEYWAY                   | MODEL  | ASSEMBLY | BORE   | KEYWAY  |        |    |                   |                          |        |    |  |   |    |    |    |    |
|--------|----------|-------------------|--------------------------|--------|----------|--|---|--------|----|-------------------|--------------------------|--------|----|--|---|----|----|----|----|
| TSC60  | -2       | .625<br>( 15 mm ) | 3/16 X 3/32<br>( 5 X 5 ) | TSC350 | -2       | 1.000<br>( 25 mm )                                     | 1/4 X 1/8<br>( 8 X 7 )  |        |    |                   |                          |        |    |  |   |    |    |    |    |
|        | -4       |                   |                          |        | -8       |  |   | TSC150 | -2 | .875<br>( 20 mm ) | 3/16 X 3/32<br>( 6 X 6 ) | TSC850 | -0 | 1.125<br>1.250<br>1.375<br>1.500<br>1.625<br>( 40 mm ) | 1/4 X 1/8<br>1/4 X 1/8<br>5/16 X 5/32<br>3/8 X 3/16<br>3/8 X 3/16<br>( 12 X 8 ) | -7 | -1 | -2 | -2 |
| TSC150 | -2       | .875<br>( 20 mm ) | 3/16 X 3/32<br>( 6 X 6 ) | TSC850 | -0       | 1.125<br>1.250<br>1.375<br>1.500<br>1.625<br>( 40 mm ) | 1/4 X 1/8<br>1/4 X 1/8<br>5/16 X 5/32<br>3/8 X 3/16<br>3/8 X 3/16<br>( 12 X 8 ) |        |    |                   |                          |        |    |  |   |    |    |    |    |
|        | -7       |                   |                          |        | -1       |  |   |        |    |                   |                          |        |    |  |   |    |    |    |    |
|        | -2       |                   |                          |        | -2       |  |   |        |    |                   |                          |        |    |  |   |    |    |    |    |
|        | -3       |                   |                          |        | -3       |  |   |        |    |                   |                          |        |    |  |   |    |    |    |    |
|        | -4       |                   |                          |        | -4       |  |   |        |    |                   |                          |        |    |  |   |    |    |    |    |
|        | -9       |                   |                          |        | -9       |  |   |        |    |                   |                          |        |    |  |   |    |    |    |    |

| MODEL    | TORQUE @ 80PSI         |                        | HEAT CAPACITY                    | HEAT DISSIPATION WITH BACKPLATE @ 1800 | WK <sup>2</sup> BACKPLATE                               | WK <sup>2</sup> HUB AND CLUTCH DISC                   | WEIGHT               |
|----------|------------------------|------------------------|----------------------------------|--|---|---|----------------------|
|          | STATIC                 | DYNAMIC                |                                  |  |   |   |                      |
| TSC60IM  | 60 IN-LB<br>( 6 Nm )   | 50 IN-LB<br>( 5 Nm )   | 7,500 FT-LB<br>( 10,200 Joule )  | .10 HP<br>( .075 KW )                  | .95 IN <sup>2</sup> LB<br>( 2.8 Kg-Cm <sup>2</sup> )    | .65 IN <sup>2</sup> LB<br>( 1.9 Kg-Cm <sup>2</sup> )  | 3 1/4 LB<br>( 1 Kg ) |
| TSC150IM | 150 IN-LB<br>( 16 Nm ) | 125 IN-LB<br>( 14 Nm ) | 15,000 FT-LB<br>( 20,400 Joule ) | .14 HP<br>( .104 KW )                  | 3.9 IN <sup>2</sup> LB<br>( 11.4 Kg-Cm <sup>2</sup> )   | 2.3 IN <sup>2</sup> LB<br>( 6.7 Kg-Cm <sup>2</sup> )  | 7 LB<br>( 3 Kg )     |
| TSC350IM | 350 IN-LB<br>( 39 Nm ) | 285 IN-LB<br>( 32 Nm ) | 30,000 FT-LB<br>( 40,800 Joule ) | .22 HP<br>( .164 KW )                  | 12.4 IN <sup>2</sup> LB<br>( 36.3 Kg-Cm <sup>2</sup> )  | 1.9 IN <sup>2</sup> LB<br>( 5.5 Kg-Cm <sup>2</sup> )  | 9 LB<br>( 4 Kg )     |
| TSC850IM | 850 IN-LB<br>( 96 Nm ) | 700 IN-LB<br>( 79 Nm ) | 60,000 FT-LB<br>( 81,600 Joule ) | .50 HP<br>( .373 KW )                  | 39.5 IN <sup>2</sup> LB<br>( 115.7 Kg-Cm <sup>2</sup> ) | 8.5 IN <sup>2</sup> LB<br>( 24.9 Kg-Cm <sup>2</sup> ) | 23 LB<br>( 10 Kg )   |

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