

## STRADDLE BEARING POWER TAKE-OFF SELF-ADJUSTING P0318S

### QUALITY IS STANDARD

- OPTIONAL SINTERED IRON PLATES
- NO PILOT BEARING
- AIR ACTUATED
- STRADDLE BEARING DESIGN
- CREATES 25% HIGHER TORQUE CAPACITY
- EASE OF INSTALLATION
- REMOTE ACTUATION & CLUTCH ADJUSTMENT NOT REQUIRED
- ALLOWS FOR MAXIMUM SIDE LOAD CAPABILITY



### SPECIFICATIONS - P0318S002, P0318S003

Model Number	SAE HSG.	Max. Input Torque Nm (lb-ft)	Maximum Safe Speed	Dim. "A" mm (in)	Dim. "B" mm (in)	Dim. "C" mm (in)	Weight kg (lbs)
P0318S002	0	22,725 (16,762)	2150	867.6 (34.15)	320.7 (12.62)	25.6 x 241.5 (1.00 x 9.50)	551 (1212)
P0318S003				911.9 (35.90)	365.0 (14.37)	25.6 x 266.7 (1.00 x 10.50)	600 (1320)

### LOAD CLASSIFICATIONS BASED UPON AGMA LOAD CHARACTERISTICS

PRIME MOVER	DURATION OF SERVICE	DRIVEN MACHINE LOAD CLASSIFICATIONS		
		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
Electric motor	Up to 3 hours per day	1.00	1.25	1.50
	3-10 hours per day	1.00	1.25	1.75
	Over 10 hours per day	1.25	1.50	2.00
Multi-cylinder internal combustion engine	Up to 3 hours per day	1.00	1.25	1.75
	3-10 hours per day	1.25	1.50	2.00
	Over 10 hours per day	1.50	1.75	2.25
Multi-cylinder internal combustion engine with high torque rise	Up to 3 hours per day	1.50	1.75	2.25
	3-10 hours per day	1.75	2.00	2.50
	Over 10 hours per day	2.00	2.25	2.75
Single cylinder internal combustion engine	Up to 3 hours per day	1.25	1.50	2.00
	3-10 hours per day	1.50	1.75	2.25
	Over 10 hours per day	1.75	2.00	2.50

All clutch engagements to be with prime mover below 1000 RPM. High inertia loads may require use of larger clutch. Contact Twin Disc application engineering department for assistance.

### TO CALCULATE APPLICATION TORQUE:

$$\frac{5252 \times \text{HP}}{\text{Engine RPM}} = \text{Torque}$$

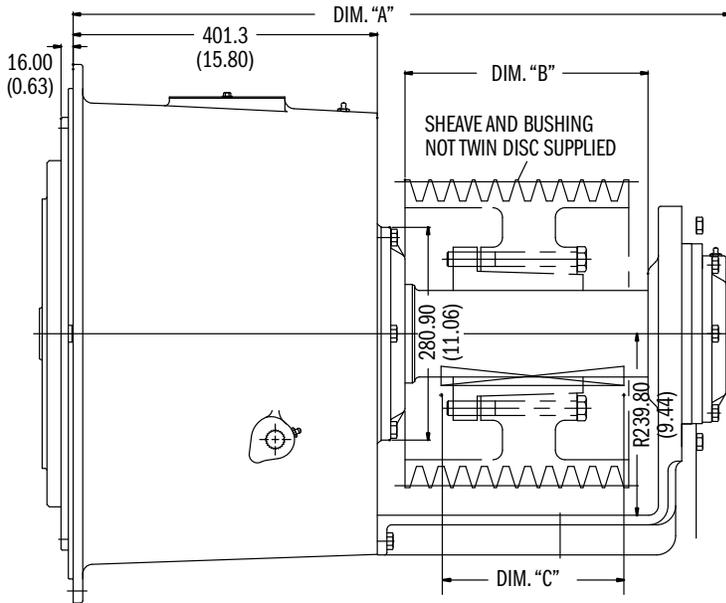
$$\text{Torque} \times \text{Load Factor} = \text{Application Torque}$$

Use load factor from chart at left

Specifications subject to change without prior notice in the interest of continual product improvement. Contact your local Twin Disc representative for engineering specifications.



**P0318S0**



Dimensions are in mm (inches)

**STANDARD AND STRETCH SIDE LOAD CAPACITY VALUES**

S DIMENSION mm (in)	2100 RPM MAX. LOAD Nm (lbs)	1800 RPM MAX. LOAD Nm (lbs)	1200 RPM MAX. LOAD Nm (lbs)
127.0 (5.0)	67165 (15100)	70278 (15800)	79619 (17900)
152.4 (6.0)	73837 (16600)	77395 (17400)	87181 (19600)
177.8 (7.0)	81843 (18400)	85846 (19300)	96966 (21800)
203.2 (8.0)	83622 (18800)	87626 (19700)	97856 (22000)
228.6 (9.0)	78730 (17700)	82288 (18500)	92074 (20700)
254.0 (10.0)	70723 (15900)	73837 (16600)	82510 (18550)
279.0 (11.0)	64051 (14400)	66720 (15000)	74726 (16800)

The following general formula should be used for determining the actual applied load:  $L = \frac{126,000 \times \text{HP}}{N \times D} \times F \times \text{LF}$

- WHERE
- L = Actual Applied Load (lbs)
  - N = Shaft Speed (RPM)
  - D = Pitch Diameter (in) of Sheave, etc.
  - F = Load Factor
    - 1.0 for Chain or Gear Drive, 1.5 for Timing Belts, 2.5 for All V Belts, 3.5 for Flat Belts
  - LF = 2.1 for Reciprocating Compressors and other Severe Shock Drives and 1.8 for Large Inertia Type Drives (i.e. crushers, chippers, planers, etc.)

Compound Drives and Power Engaged Power Take-Off applications must have written factory review.

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**Twin Disc, Incorporated**  
**Racine, Wisconsin 53403 USA**  
**Phone +1-262-638-4000**  
**Fax +1-262-638-4482**  
**www.twindisc.com**

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