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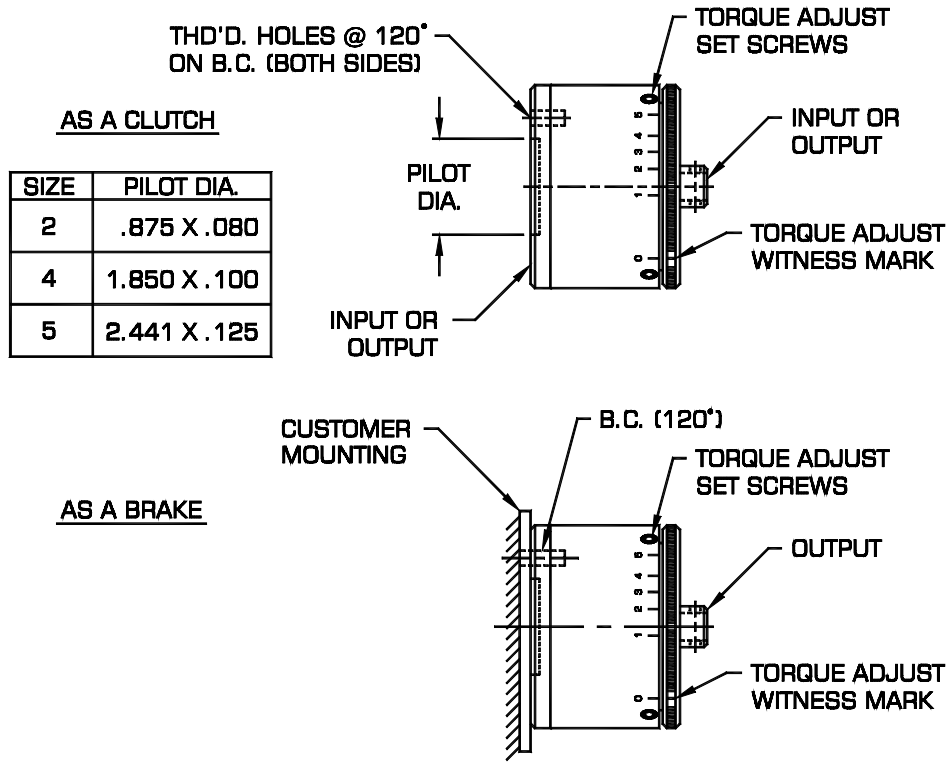
INSTRUCTION MANUAL
Perma-Tork
HC2, HC4, HC5

Handling

Handle and install with care. This is a precision-assembled unit with close internal clearances. Magnetic materials used are brittle by nature. Avoid subjecting to shock loads. DO NOT DROP.

Installation

Perma-Tork hollow shaft units are easily adaptable for use as either a clutch or brake. As a clutch, either the hollow shaft or the housing can be the input. The unit mounts on a shaft, and convenient bolt circles and a pilot diameter provide ease of attachment to gears, pulleys, etc. A stub shaft adapter can be used where a solid shaft interface is required.



SIZE	PILOT DIA.
2	.875 X .080
4	1.850 X .100
5	2.441 X .125

SIZE	B.C.	THREAD
2	1.250	6-32 X 5/16 D.P.
4	2.375	10-32 X 3/8 D.P.
5	3.000	10-32 X 1/2 D.P.

Adjustment

Loosen the two torque adjust set screws and rotate large knurled adjustment ring to the desired relative setting. Retighten set screws to insure that adjustment won't slip. Both Hysteresis and Eddy Current units are adjustable.

Cogging

With Hysteresis units there can be a slight "memory" effect on the Hysteresis disc when changing from a high to a low torque setting. This can result in "magnet lobes" or detents, causing a minor cogging. It is correctable by rotating the output shaft slowly (25 to 250 rpm) while moving the adjustment from maximum to minimum.

Heat Dissipation

For all continuous slip applications over 1500 rpm (size 2) and 450 rpm (size 4 and 5) heat generation and dissipation capacity should be considered.

Calculate as follows:

$$W = .0118T \times \Delta rpm$$

Where W = watts
T = Torque (lb-in)
Δrpm = Slip Speed

For continuous duty applications, maximum watts should not exceed 10 (size 2), 22 (size 4) and 72 (size 5).

Overhung Load Capacity

Distance from face of Perma-Tork unit is 1 in.

Size	Size Load (lbs)
2	5
4	10
5	25