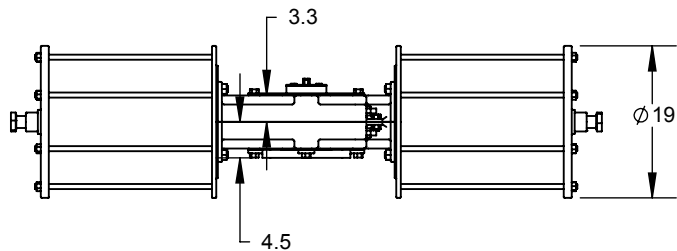
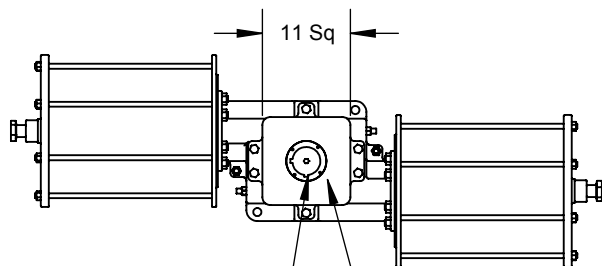


Spring causes clockwise rotation when looking down upon the actuator in this view

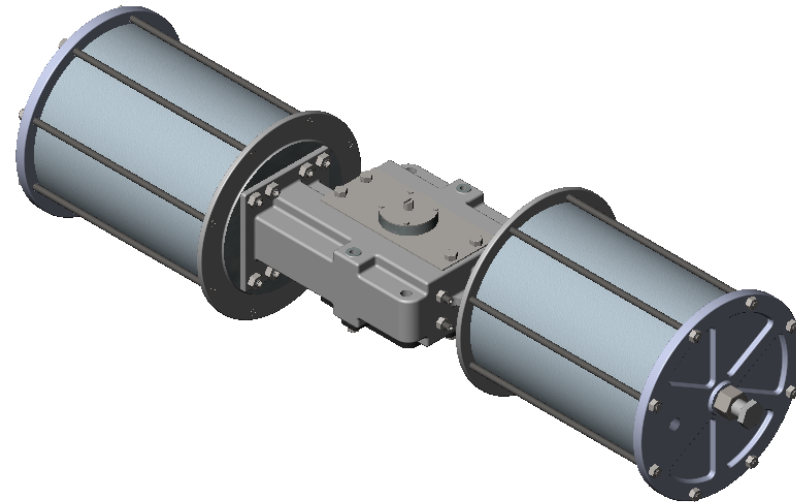
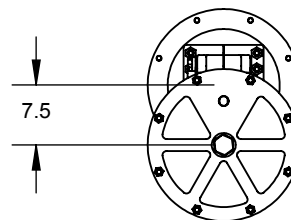


Note - the Center of Gravity is the precise center of the actuator



Shaft geometry is to suit the user. Maximum diameter is 3.5" Standard is Qty 2, 1/2" Keyways located at 0 and 90 degrees

Mounting Bolt Pattern to Suit User This is a Universal Mounting Plate (UMP) which can be removed and placed on the opposite face to enable change from fail closed to fail open action



Notations:

- Weight is balanced on the shaft axis
- Because the springs are located inward of the piston, shaft seals are not pressured and are therefore not subject to failure
- The "Patent Applied For" Flat yoke design balances piston trust forces on the shaft bearing, providing longer life
- The sole dynamic seals are the piston o-rings which may be changed while the actuator remains on the valve by simply removing the end cap and cylinder
- The piston o-ring is a readily available standard o-ring at minimal cost
- Cylinders with a contaminant damaged seal surface may be turned end to end to provide a new cylinder surface (effectively, a spare cylinder built-in on each end)
- Externally accessible bi-directional travel stops allow ease of travel adjustment and they are located in line with the piston axis so as to not incur any side loading on the cylinders or on the shaft and yoke

DIMENSIONS ARE IN INCHES TOLERANCES except as shown		NAME	DATE	QTRCO, Inc.
FRACTIONAL: ±		DRAWN	EH 1/17/08	
ANGULAR: ±		Rev B		
2 PLACE DECIMAL: ±		Rev C		
3 PLACE DECIMAL: ±		Rev D		
MATERIAL		Rev E		Flat Yoke Actuator Size F375SR16
PROCESS				
DO NOT SCALE DRAWING		SIZE	DWG. NO.	F375SR16-DIM-001A
		WEIGHT (Pounds): 950		SHEET 1 OF _____ 1 of 1 if not shown

PROPRIETARY AND CONFIDENTIAL

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