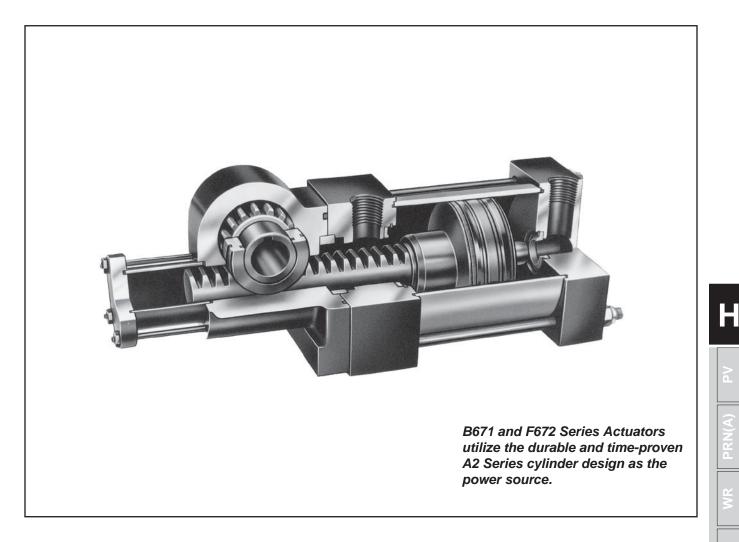


B671 / F672 Series

Heavy Duty Pneumatic **Rack and Pinion Rotary Actuator**



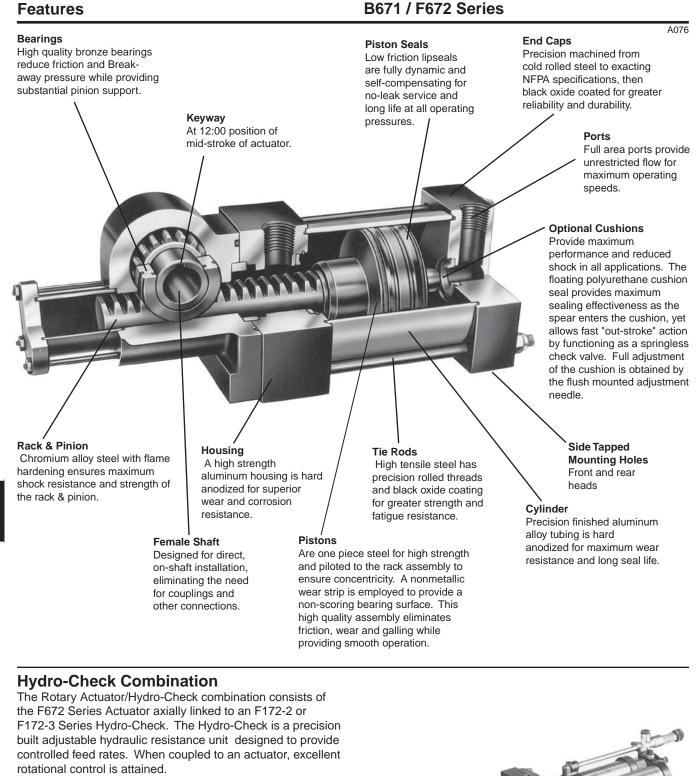
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Rotary Actuators

The Rotary Actuator / Hydro-Check combination provides consistent torque with adjustable hydraulic resistance for a smooth controlled rotational feed rate. Axial coupling of these units eliminates eccentric loading of component parts.

These actuators are available in three torque ranges to comply with varying load requirements. The Hydro-Check is capable of checking axial loads to 3,000 lbs. and is available with many controlling options (see Ordering Information). For information on Hydro-Checks not shown in this catalog, consult factory.





Catalog 0900P-E

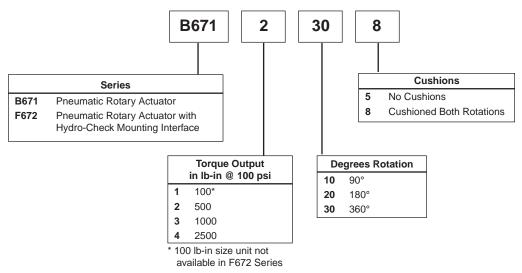
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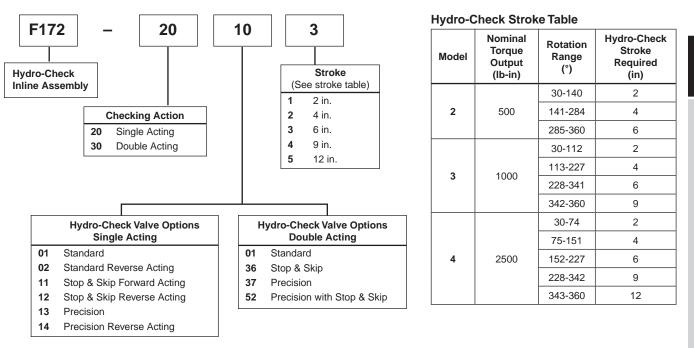
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Model Code and Ordering Information Example: B6712308



F172 Inline Hydro-Check Ordering Information For Use with F672 Rotary Actuator

Example: F172-20103



Notes:

- 1. Hydro-Check must be ordered separately.
- 2. When both Actuator and Hydro-Check are ordered from Actuator Division, they will be assembled together.

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- 3. Specify voltage with stop and skip function 12, 115, 220 or 440 VAC.
- 4. For availability of other Hydro-Check options not listed here, please consult factory.



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Overview

The B671 Series Pneumatic Rotary Actuator is designed to provide force in a reciprocating, rotational motion. It is ideal for any application requiring constant torque through a rotational distance: rotating or lifting heavy objects, positioning or bending operations.

The F672 Series utilizes the same high quality construction found on the B671 Series with the addition of a coupling arrangement for a Hydro-Check. An F672 / Hydro-Check assembly will provide controlled feed rates and excellent rotational control with pneumatic power through adjustable hydraulic resistance.

The B671 / F672 Series Pneumatic Rotary Actuator can be powered by shop air or inert gas. The actuators are pre-lubricated at assembly with NLG1 grade 2 grease with outstanding oxidation stability and corrosion resistant additives. This pre-lubrication is intended for use in pneumatic systems where airline lubrication is not used. However, to assure maximum service life of the cylinder, the air supply should be properly filtered and moisture free.

The pneumatic rotary actuator can be controlled by any conventional 4-way valve - hand, foot, mechanically or electrically controlled. All four sizes of rotary actuators are designed for direct on-shaft installation - no flexible couplings, cam and roller or chain and sprocket combinations are required.

B671 / F672 Series Cushion Option

The standard cushions operate at the end of rotation to decelerate the actuator. A floating polyurethane cushion seal provides maximum sealing effectiveness going into the cushion. This durable material ensures millions of trouble free cycles with no wear. The cushion seal also acts as a check valve, allowing full air flow around the seal during outstroke, providing excellent break-away. Cushions, when so ordered, are installed both directions. They are available on both the B671 and F672 Series.

Quick Reference Data

Model	Cylinder Bore			Torque (Ib d Pressure	,	Displacement per Degree	Maximum Angular Backlash	Maximum Rotational		
	(in)	50	75	100	125	Rotation (in ³ /°)	(minutes)	Tolerance (°)		
1	1-1/2	50	75	100	125	0.021	40	-0, +5		
2	3-1/4	250	375	500	625	0.116	40	-0, +4		
3	4	500	750	1000	1250	0.219	40	-0, +3		
4	5	1250	1875	2500	3125	0.514	30	-0, +2		

Rotary Actuators B671 / F672 Series

Specifications

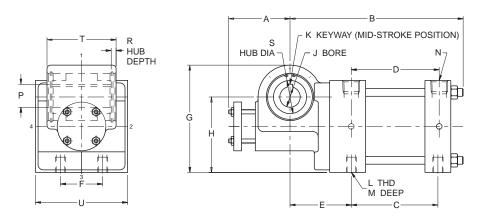
- Maximum Operating Pressure: 140 psi
- Standard Rotations: 90°, 180°, 360°
- Output Torque @ 100 psi: 100 lb-in to 2500 lb-in
- Maximum Break-away Pressure: 10 psi
- Mounting Orientation: Unrestricted
- Operating Temperature: 0° F to 180° F
- Leakage: External: 0 cfm
 Internal: 0 cfm
- Theoretical Timing: Keyway located at 12:00 position at mid-stroke position of actuator



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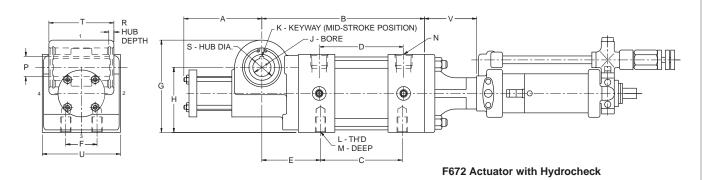
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B671 Series



Model	Rotation	Α	В	С	D	Е	F	G	н	J	к	L	М	N	Р	R	S	Т	U
	90°	2.16	6.45	3.36	3.42					0 500	0.40				0.500				
1	180°	3.35	7.53	4.44	4.50	2.19	0.62	2.94	1.92	0.500	0.12 x 1.31	1/4-20	0.38	3/8	0.560 0.570	0.16	1.00	1.69	2.00
	360°	5.35	9.68	6.60	6.66					0.002	1.01				0.070				
	90°	2.50	7.95	3.9 2	3.99					0.075	0.40				0.004				
2	180°	3.75	9.21	5.17	5.25	2.81	1.50	4.44	3.12	0.875	0.19 x 2.62	1/2-13	0.75	1/2	0.964 0.974	0.22	1.25	3.12	3.75
	360°	6.25	11.72	7.69	7.76					0.077	2.02				0.074				
	90°	3.00	8.46	4.23	4.30					4 000	0.05				4 4 4 7				
3	180°	4.56	10.03	5.80	5.87	3.00	2.06	5.25	3.69	1.000	0.25 x 2.88	1/2-13	0.75	1/2	1.117 1.127	0.24	1.62	3.38	4.50
	360°	7.96	13.17	8.94	9.01					1.002	2.00				1.121				
	90°	3.56	10.51	5.28	5.35					4 500	0.00				4 000				
4	180°	5.75	12.87	7.63	7.71	3.88	2.69	6.88	4.75	1.500	0.38 x 3.50	5/8-11	0.94	1/2	1.668 1.678	0.31	2.50	4.12	5.50
	360°	10.75	17.58	12.34	12.42					1.002	0.00				1.070				

F672 Series



Model	Rotation	Α	В	С	D	Е	F	G	н	J	к	L	М	Ν	Р	R	S	т	U	v
	90°	2.50	7.80	3.92	4.05					0.875	0 19 x				0.964					
2	180°	3.75	9.06	5.17	5.31	2.81	1.50	4.44	3.12	0.877	2.62	1/2-13	0.75	1/2	0.974	0.22	1.25	3.12	3.75	2.50
	360°	6.25	11.57	7.69	7.82															
	90°	3.00	8.30	4.23	4.36					1 000	0.05.4				4 4 4 7					
3	180°	4.56	9.87	5.80	5.93	3.00	2.06	5.25	3.69	1.000	0.25 X	1/2-13	0.75	1/2	1.117	0.24	1.62	3.38	4.50	2.50
	360°	7.96	13.01	8.94	9.07					1.002	2.00				1.121					
	90°	3.56	10.22	5.28	5.41					4 500	0.00				1 000					
4	180°	5.75	12.58	7.63	7.77	3.88	2.69	6.88	4.75	1.500	0.38 X	5/8-11	0.94	1/2	1.668	0.31	2.50	4.12	5.50	2.50
	360°	10.75	17.29	12.34	12.48					1.502	5.50				1.070					



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B671 / F672 Series*									
Actuator Size (Cushioned or Non-Cushioned)	Seal Kit Number								
100 lb-in	B732904								
500 lb-in	B732905								
1,000 lb-in	B732906								
2,500 lb-in	B732907								

* Does not include Hydro-Check Seal Kit



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