

QUALITY CONTROLS, INC.

NORTHFIELD, NH 03276 1-603-286-3321





ROTARY PNEUMATIC / HYDRAULIC ACTUATORS RAMCON COMPATIBLE

Q.C.I. Pneumatic Actuators for quarter-turn applications

Extra drive power—Scotch yoke with single-or double-piston drive provides maximum starting torque at the actuator drive shaft.

Easy conversion to fail-safe—Retainer key design permits actuator end cap to be replaced with spring capsule for fail-safe operation—without removing the actuator from the line. Torque output is reduced...see Spring Return Torque chart.

Fail-safe capsule—Spring is factory assembled into a locked capsule for safe, simple installation and removal. O-ring seal prevents internal corrosion due to moisture and other contaminants.

Weather-guard feature—Protects all fail-safe models against rain and snow entering the capsule.

Mount in any position—Stem is located at the center bore of the power piston for mounting horizontally, vertically, or at any angle.

Double-mounting pad—Top and bottom pads are identical for multi position mounting. Top pad accepts wide variety of auxiliary equipment such as limit switches, positioners, etc.

Manual override—Actuator drive shaft extends above the actuator—permits 90° turn for operation in the event of power failure. Manual declutch able gearing may be required for larger models.

Mounting brackets and drive systems—Available in a wide range of configurations to match your specific requirements.

11 basic models— Air to open, air to close; air to open, spring to close; air to close, spring to open • 35 to 137,000 lb-in. maximum starting torque • Choice of double-acting or spring-return fail-safe models.

Options and Auxiliary Equipment

Position indicator switches—A wide range of mechanical, proximity, hermetically sealed switches are available to handle all types of position indication applications. Two, three or four-way cam actuated valves may be mounted on actuators for pneumatic or fluidic circuits.

Adjustable travel stops—For mechanically limiting travel of the actuator in one direction only.

Positioner—Accepts an instrument air or electric signal and controls the shaft position of the actuator.

Direction control valves—Actuator may be supplied with piped and mounted direction control valves. These may have solenoid, manual, pilot, or fluidic operators. The solenoid travel is available in various enclosures and coil voltages.

Manual operation—For manual operation of Model R-450 and larger, and fail -safe models, a declutch able gear train is required. On smaller models, flatted shafts provide for easy wrench operation.

Air filters, regulators, lubricators—Individual items or combination units can be furnished for mounting in air supply line to actuator. This equipment is supplied loose for field installation unless otherwise specified.

Air speed control—Accurately regulates air to adjust speed of actuation.

Special coatings—For increased corrosion resistance. Specify applications and requirements.

High-temperature preparation-Special seals, lubricants, etc., are available. Consult Q.C.I.

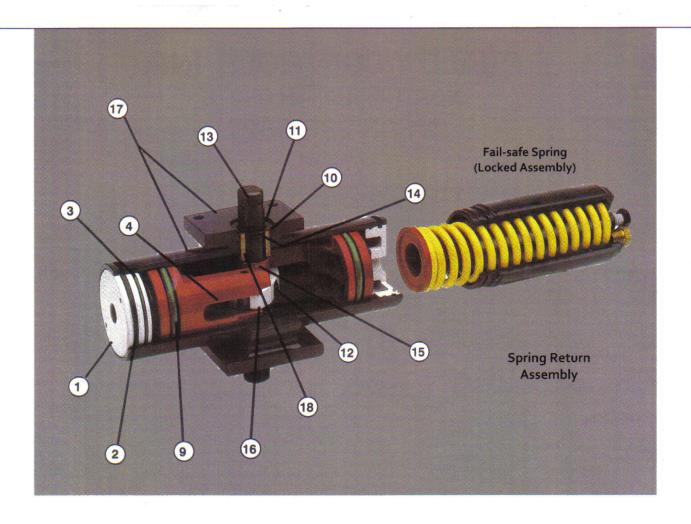
DOUBLE ACTING PNEUMATIC ACTUATOR OUTPUT TORQUE									SPRING RETURN PNEUMATIC ACTUATOR OUTPUT TORQUE						
		T				lb - IN.		10.4			ACT	UATOROL		b - IN.	
MODEL	_	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	110 PSI	120 PSI	MODEL		60 PSI	80 PSI	100 PSI
R16C	BREAK RUNNING	70 40	95 55	120 70	145 85	175 95	200 110	225 120	250 140	280 150	R16CFS	FINISH AIR FINISH SPRING	50 35	60 50	90 70
R35C	BREAK RUNNING	177 95	236 120	295 145	351 173	407 200	459 228	510 255	566 282	621 319	R35CFS	FINISH AIR FINISH SPRING	90 80	120 115	155 160
R70C	BREAK RUNNING	385 200	503 256	620 312	730 370	840 427	968 486	1095 545	1213 603	1332 660	R70CFS	FINISH AIR FINISH SPRING	185 165	250 245	315 320
R120C	BREAK RUNNING	625 307	810 410	995 495	1188 580	1380 665	1543 755	1705 845	1885 935	2065 1025	R120CFS	FINISH AIR FINISH SPRING	300 280	430 390	510 550
R260C	BREAK RUNNING	1303 665	1700 863	2097 1060	2496 1248	2895 1435	3290 1623	3685 1810	4082 2001	4479 2192	R260CFS	FINISH AIR FINISH SPRING	630 580	890 810	1050 1150
R450C	BREAK RUNNING	2300 1145	2963 1463	3645 1780	4280 2095	4935 2410	5548 2695	6160 2980	6803 3285	7446 3590	R450CFS	FINISH AIR FINISH SPRING	1020 1100	1500 1480	1920 1850
R960C	BREAK RUNNING	4810 2420	6185 3085	7560 3750	8960 4410	10360 5070	11595 5678	12830 6285	14167 6929	15504 7573	R960CFS	FINISH AIR FINISH SPRING	2120 2300	3110 3060	3950 3820
R2000D	BREAK RUNNING	10350 5100	13150 6400	15950 7700	18825 9100	21700 10500	24500 11750	27300 13000	30125 14317	32950 15634	R2000DFS	FINISH AIR FINISH SPRING	4650 5150	6500 6650	8200 8550
R4200D	BREAK RUNNING	21600 10600	27500 13450	33400 16300	39200 19150	45000 22000	51050 24850	57100 27700	63017 30550	68934 33400	R4200DFS	FINISH AIR FINISH SPRING	9550 10600	13300 13800	1690 1760
R6200D	BREAK RUNNING	31900 15700	40600 19800	49300 24000	58000 28200	66700 32500	75500 36600	84400 40700	93100 44800	100000 49000	R6200DFS	FINISH AIR FINISH SPRING	14200 15700	19800 20400	2510 2610
R8400D	BREAK RUNNING	43200 21200	55000 26900	66800 32600	78400 38300	90000 44000	100000 49700	114200 55400	126034 61100	137868 66800	R8400DFS	FINISH AIR FINISH SPRING	19100 21200	26600 27600	3380 3520

CONSULT FACTORY FOR PRESSURES OTHER THAN THOSE SPECIFIED.

AVAILABLE AIR PRESSURE MUST BE SPECIFIED.

COMPLETE TECHNICAL SPECIFICATIONS ARE AVAILABLE FOR EACH MODEL LISTED.

WHEN POSITIONER IS USED, SIZE FROM RUNNING TORQUE.



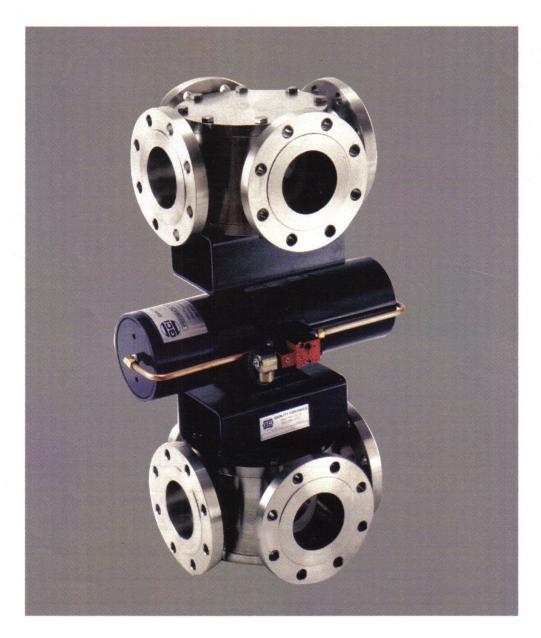
ITEM NO.	DESCRIPTION	MATERIAL						
1	END CAP	STEEL						
2	RETAINING KEY	STAINLESS STEEL						
3	O-RING, END CAP	VITON						
4	PISTON/ROLLER ASSEMBLY	R16 – R70 = ALUMINUM/STEEL R120 – R8400 = CAST IRON/STEEL						
9	O—RING, PISTON	VITON						
10	THRUST WASHER	STEEL						
11	RETAINING RING	STEEL						
12	YOKE PIN	STEEL						
13	OUTPUT SHAFT	STEEL						
14	O-RING, OUTPUT SHAFT	VITON						
15	BEARING SLEEVE	STEEL						
16	YOKE	STEEL						
17	CYLINDER/BODY ASSEMBLY	STEEL/CAST IRON						
18	BEARING, SLEEVE	BRONZE						
ITEM NUMBERS ₅ THRU 8 (NOT LISTED) ARE COMPONENT PARTS OF ASSEMBLY ITEMS.								



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ASSEMBLY, QCI 4.0 VALVES GANG MOUNTED TO A QCR 960C-NAMUR(OPTIONAL)
WITH SOLENOID (OPTIONAL)