

# Field Device Product Announcement

February 26, 2007 07-019

## New Design... New Reliability... New Color...

### Barber-Colman Brand Round Hydraulic Actuators with Enhanced Design and New Grey Color

TAC has made significant *design and reliability* improvements to the round hydraulic actuators. In February, you will start receiving the enhanced products with a fresh grey color rather than the traditional beige color. Plus, these new units will be labeled with their original, highly regarded Barber-Colman brand.

- *Enhanced Design* and new manufacturing processes provide improved reliability and longer life
- *Re-branded* to their original, highly regarded Barber-Colman brand
- *100 % Direct Replacements* with the same part numbers, proportional, floating, and two position input signals
- *Compatible* with ½" – 2" VB-7000 series two and three way globe valves, and many older VB-9000 threaded globe valves
- *NEW Grey Color* on valve and damper models

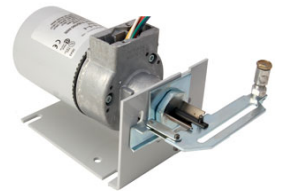
The *design and reliability* improvements are listed in Attachment 1. Hundreds of thousands of Round Hydraulic Actuators have been installed in commercial buildings for many years. Now better than ever, the enhanced Round Hydraulic Actuators provide 100% direct replacement of existing units with significant reliability improvements.

Attachment 2 summarizes the Round Hydraulic Actuator product line and lists references to relevant literature. If you have any questions regarding the enhanced Round Hydraulic Actuators please feel free to contact Technical Support at (888) 444-1311, or your Product Specialist.



**Barber-Colman**

Round Hydraulic Globe Valve Actuator



**Barber-Colman**

Round Hydraulic Damper Actuator

#### TAC Field Device Division

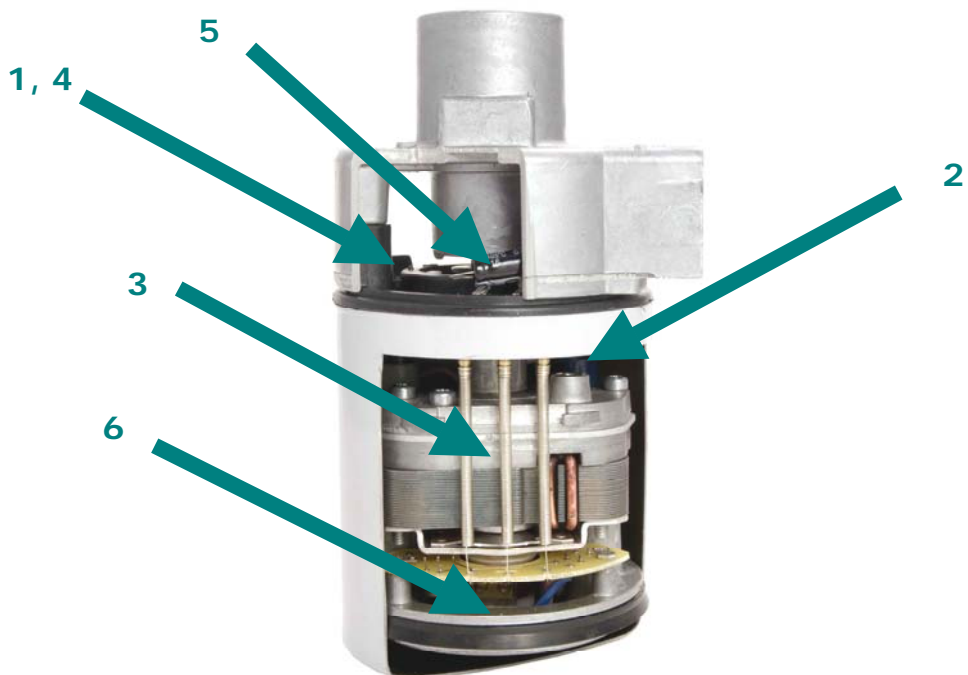
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## Attachment 1

### Enhanced Round Hydraulic Design and Reliability Improvements

	Design/Manufacturing Process Change	Improved Reliability and Longer Life	Durability for High Cycle Applications	Easier Field Installation
1	Improved, long life diaphragm material with new tight diaphragm sealing design	X	X	
1	100% factory testing of all units using a three times overpressure to detect any marginal units and ensure the reliability of the seal	X	X	
2	Added pressure relief valve to pump to prevent high pressures which can shorten product life	X	X	
3	Improved pump gear design and machining techniques to minimize field failures	X	X	
4	Actuator base tooling upgrade to provide improved motor connections over vibration and temperature extremes	X	X	
4	Tooling design and manufacturing enhancements to improve O ring insertion for increased life	X	X	
5	Added the AD-8969-612 filter capacitor into MP-52xx-xxx-0-04 units to simplify field installation			X
6	Improved hold mode operation of MF-5xxx Floating Input models		X	
3	Added pump calibration procedure to improve pump operation at low line voltages	X	X	



## Attachment 2

### Round Hydraulic Families and Available Literature

Round Hydraulic Family	Available Voltages	Input Signal(s)	Positive Positioner	Adjustable Start Point Models	Auxiliary Switch Models	Literature Number
MP-5200	24 Vac, 120 Vac	6 - 9 Vdc, full input range is 2 to 12 Vdc. (4.5 to 12 Vdc min. input range)	No	No	Yes	F-24789
MP-5400	24 Vac, 120 Vac, 240 Vac	6 - 9 Vdc, full input range is 2 to 12 Vdc.	Yes	Yes	No	F-24788
MP-5500	24 Vac, 120 Vac, 240 Vac	0 - 10 Vdc	Yes	No	No	F-25856
MPR-5600 and MPR-5700	24 Vac, 120 Vac, 240 Vac	4 - 20 mA, 135 ohm slidewire	Yes	Yes	No	F-23576
MA-5200 and MA-5300	24 Vac, 120 Vac, 240 Vac	Two Position	-	-	Yes	F-15070
MF-5X13 and MF-5X33	24 Vac	Floating	-	-	Yes	F-24696

Two and Three Way 1/2" to 2" Globe Valve nominal close off ratings for Round Hydraulic Actuators are shown in the AV-7600-1 Hydraulic Actuator Valve Linkage Kit General Instruction Sheet, F-26235 available at <http://source.tac.com>.