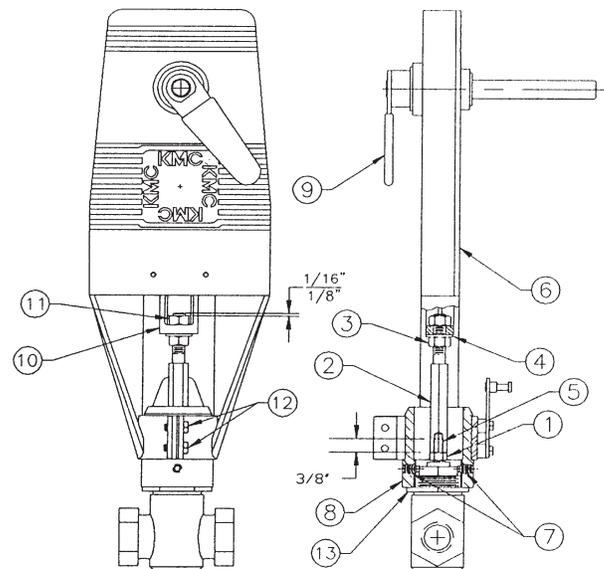
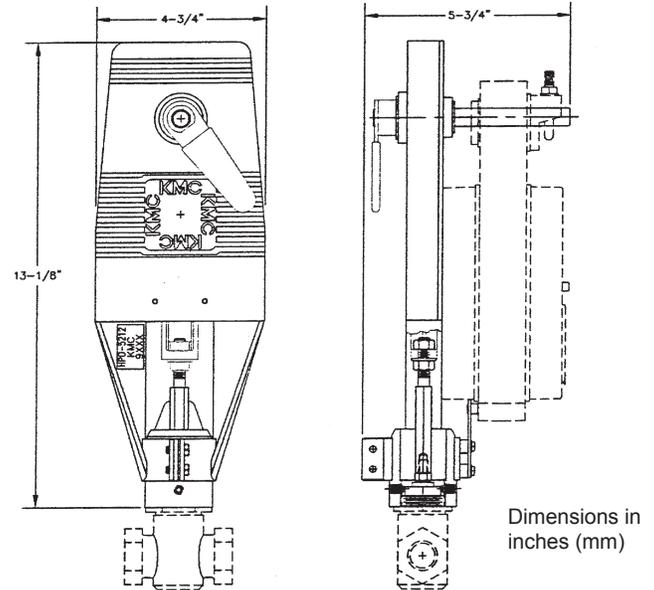


Installation Guide

Mounting

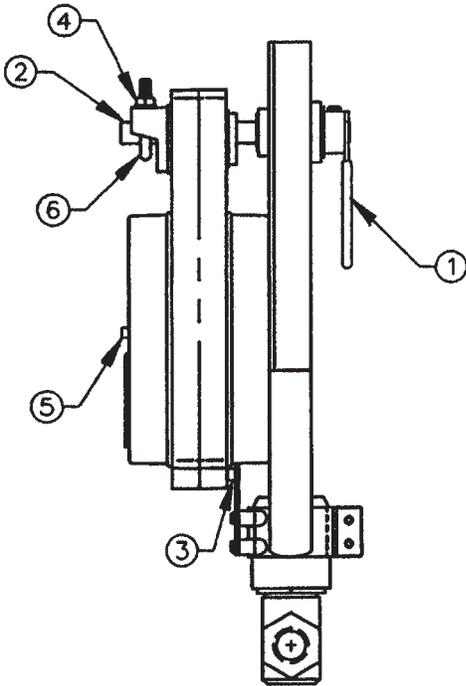
Linkage to Barber-Colman Valves

1. Thread 1/4-28 jam nut (1) onto valve stem (5) until 3/8" of valve stem is above the nut.
2. Thread stem extension (2) onto valve stem (5) and tighten against jam nut (1).
3. Thread nut (3) as far as possible onto stem extension (2).
4. Place flat washer (4) on top of nut (3) (on HPO-5211 and HPO-5212 linkage only).
5. Screw linkage (6) onto valve. Tighten aluminum bonnet adaptor (8) against valve mounting nut (13).
6. Thread 2 setscrews (7) in evenly until screws contact flats on brass bonnet. Do not fully tighten screws to flats on bonnet.
7. Loosen 2 screws (12) and rotate linkage (6) to desired position in relation to valve body. Tighten 2 screws (12).
8. While facing lever (9), rotate lever counterclockwise until connecting rod (10) contacts lower stem nut (3).
9. Thread upper stem nut (11) onto stem extension (2) until 1/16" to 1/8" of stem extension is visible above nut (11).
10. Rotate lever (9) clockwise to lift connecting rod (10) up and around flats on upper stem nut (11).
11. While holding connecting rod (10) with wrench to keep from twisting, tighten lower stem nut (3) against connecting rod.
12. Rotate lever (9) until valve stem is in full up position. Loosen setscrews on lever hub and reposition so that the end of the lever handle is just inside the left side of the linkage housing. Tighten 2 setscrews on lever hub.
13. Proceed to appropriate actuator mounting instructions.

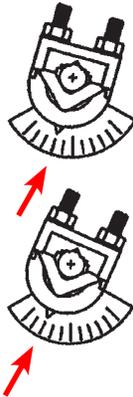


Barber-Colman Valve Models	Valve Sizes (Medium temperature must not exceed 250° F)	
	1/2" to 1-1/4"	1-1/2" to 2"
VB-111-0-3-1 through VB-111-0-3-9	Use the HPO-5211 if using the MEP-5000 actuators.	Not Available
VB-921X-0-4-1 through VB-921X-0-4-11	Close-Offs = 1/2" @ 81#	Use the HPO-5213 with the MEP-1200 actuators. Close-Offs = 1-1/2" @ 66# 2" @ 32#
VB-922X-0-4-1 through VB-922X-0-4-11	3/4" @ 81#	
VB-9253-0-4-1 through VB-9253-0-4-11	1" @ 56#	
VB-9263-0-4-1 through VB-9263-0-4-11	1-1/4" @ 30#	
	OR	
VB-9273-0-4-1 through VB-9273-0-4-11	Use the HPO-5212 if using the MEP-1200 actuators.	
VB-9283-0-4-1 through VB-9283-0-4-11	Close-Offs = 1/2" @ 362#	
VB-931X-0-4-1 through VB-931X-0-4-11	3/4" @ 362#	
VB-9323-0-4-1 through VB-9323-0-4-11	1" @ 288#	
	1-1/4" @ 178#	

Linkage to MEP-1200 Series Actuator



1. Rotate valve linkage lever (1) so that valve stem (and connecting rod) is in fully down position.
2. Depress disengagement button (5) on actuator and manually set pointer to the following position:
 - For 1/2" through 1-1/4" valves with HPO-5212 linkage, set pointer at **third** mark from full clockwise.
 - For 1-1/2" through 2" valves with HPO-5213 linkage, set pointer at **second** mark from full clockwise.
3. Place actuator over linkage shaft (2) and non-rotation pin (3) until cover on actuator rests against cover on linkage.
4. Finger-tighten 2 coupler nuts (4) until U-bolt (6) contacts linkage shaft (2).
5. Hold the linkage lever (1) in position to ensure valve stem stays fully down while evenly torquing 2 coupler nuts (4) to 110–120 in-lbs. Also be sure actuator cover is held against linkage while tightening coupler nuts.

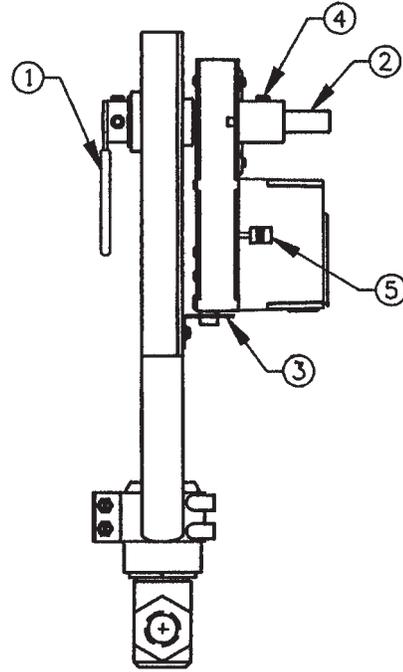


NOTE: Valve is fully stroked in each direction with less than 90° rotation of actuator.

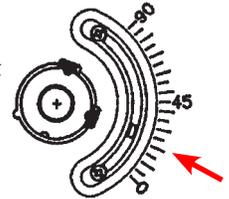
Maintenance

No routine maintenance is required. Each component is designed for dependable, long-term reliability, and performance. Careful installation will also ensure long-term reliability and performance.

Linkage to MEP-5000 Series Actuator



1. Rotate valve linkage lever (1) so that valve stem (and connecting rod) is in fully down position.
2. Depress actuators disengagement button (5) and manually position actuator pointer between the 20° and 30° marks.
3. Place actuator over linkage shaft (2) and non-rotation bracket (3).
4. Tighten 2 setscrews (4) on actuator output hub while holding linkage lever in position to ensure valve stem stays fully down.



NOTE: Valve is fully stroked in each direction with less than 90° rotation of actuator.

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