

Motors and Actuators—Foot-Mounted

S443 Manual Potentiometer

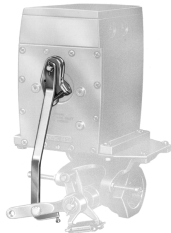


Used for remote manual control of proportioning (series 90) motors and relays.

- Compatible with Modutrol III and Modutrol IV motors.
- Select automatic or manual control with dpst toggle switch.
- Suitable for series 90, M7385; M7186; M7685; M7185; and M7285 motors controlled by 135 ohm slidewire inputs.
- Surface mounted, with conduit outlet on each side of case.
- Screw terminals.
- Scale marked OPEN-CLOSE.

ORDER NUMBER	Resistance	Use with
S443A1007	135 ohm	M9164; M9484; M9184; M9185 and motors replaced by these models.

Q100 Linkage



ORDER NUMBER	V51 Valve Size (NPT)	Dimensions, Linkage Rod		Comments
		in.	mm	
Q100A1015	2-1/2 and 3 in.	6-5/8	168	Connecting holes for pins are 5/16 in. (8 mm) in diameter and 1/4 in. (6 mm) from each end of rod.
Q100A1023	4 in.	7-1/4	184	

Q5001 Valve Linkage for Modutrol IV Motors



The Q5001 Valve Linkage connects a Modutrol Motor to a 2- or 3-Way valve. It is used primarily on V5011 or V5013 steam and water valves.

- Q5001 Valve Linkage is applicable to 2-Way or 3-Way valves in modulating or two-position service.
- Linkage requires no adjustment when used with Honeywell valves and Modutrol IV Motors.
- Q5001 Valve Linkage replaces Q601 and Q618 Valve Linkages.
- Linkage mounts directly to the valve bonnet; motor mounts to linkage bracket.

- Contains necessary hardware to link Modutrol motors to a V51B Butterfly Valve.
- Compatible with Modutrol III and Modutrol IV motors. (Requires adapter bracket, which is standard on all Modutrol IV motors included in this catalog.)
 - Adaptable for all sizes of V51B Valves.
 - Strain release and stop bracket are provided with V51B.

- Easy-to-read position indicator.
- Valve stem lift height cam selectable.
- Overtravel permits tight closeoff without excessive motor strain.
- Available brackets make linkages adaptable to many valve bodies.
- Models available with 80 lb, 160 lb, and 320 lb stem force.
- Reversible cams on the Q5001 allow field selection of normally open or normally closed valve operation.
- All models have anti-spin.

TEMPERATURE RATINGS:
Ambient: -40 F to +150 F (-40 C to +66 C) air temperature;
-40 F to +337 F (-40 C to +169 C) valve bonnet temperature.

STROKE: 160 degrees rotation for motor.

BONNET CONNECTION: Setscrew.

CONNECTIONS: Stem: Button and Clip.

DIMENSIONS, APPROXIMATE: 5-13/16 in. (148 mm) wide, 10-1/4 to 10-1/2 in. (260 to 267 mm) high, 8-13/64 in. (212 mm) deep.
Note: motor will add up to 2-1/8 in. (54 mm) to depth.

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Q5001 continued

ACCESSORIES:

Valve Adapter Kits (order separately):
 220829BCQ1—Barber-Colman Valves.
 220829JCQ1—Johnson Control Valves.

220829LGQ1—Landis & Gyr Powers Valves (bonnet nut 1-3/32 in., bonnet bracket 1-3/32 in.).
 220829LGQ2—Landis & Gyr Powers Valves (bonnet nut 1-3/8 in., bonnet bracket 1-3/8 in.).
 220829LGQ3—Landis & Gyr Powers Valves (bonnet nut 1 in., bonnet bracket 1-3/8 in.).
 220845 Retainer clip for stem button.

CAMS:

Cam Number	Type	Lift in in.	Required Torque ^a in lb-in.			Application
			80 lb Stem Force	160 lb Stem Force	320 lb Stem Force ^b	
220855A	Custom	1/4	25	50	100	V5047A, 1 in. to 1-1/2 in.
220858A		9/16				
220861A	Standard	3/4	60	120	240	V5011/V5013, 1/2 in. to 3 in.; V5047, 2 in.
220862A	60 degrees overtravel for Auxiliary Switch					
220863A	Custom	1	30	60	120	
220864A		1-1/8				
220865A		1-1/4	50	100	200	
220866A		1-3/8				
220867A	Standard	1-1/2				V5011/V5013, 4 in. to 6 in.

^a Select a Modutrol IV Motor with equal or greater torque.

^b Use the 320 lb stem force linkage with a 300 lb-in. torque motor.

HONEYWELL VALVE/LINKAGE SELECTION GUIDE

Valve	Type	Valve Body	Dimensions, Approximate, Pipe Size	Linkage	Bonnet Size	Lift (in.)	
V5011A	2-Way	Flanged	2-1/2, 3 in.	Q5001D	1-3/8	3/4	
V5011A,B			4, 5, 6 in.		1-7/8	1-1/2	
V5011F		Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 in.		1-3/8	3/4	
V5011G							
V5013N	3-Way						
V5047A		Threaded	1, 1-1/4, 1-1/2 in.		1-3/8	9/16 ^a	
	2 in.		3/4				
V5051A		Flanged	2-1/2, 3, 4, 5, 6 in.				1-1/2

^a Merchandise cam required (see cam table).

*TRADELINE models.

ORDER NUMBER	Stem Force		Lift Adjustment	Bonnet Size	Linkage Replaced
	lb	N			
*Q5001D1000	80, 160	356, 712	3/4 fixed	1-3/8 in.	Q601J,K,L,M ^a ; Q618A.
*Q5001D1018	160, 320	712, 1355			Q601J,K,Q; Q618A1008 ^a ; Q618A1024.
*Q5001D1026			1-1/2 fixed	1-7/8 in.	Q601E,P ^b

^a If valve lift is not 3/4 in., order a merchandise cam (see Cam table).

^b If valve lift is not 1-1/2 in., order a merchandise cam (see Cam table).