

M9000-53x Series

Cast Iron Flanged Valve Linkage Kits



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Description

The M9000-53x Series Cast Iron Flanged Valve Linkage Kits are designed specifically for field mounting Johnson Controls M9116 and M9124 Series Non-Spring Return (NSR) and M9216 Series Spring Return (SR) Electric Actuators to Johnson Controls VG2000 Series Cast Iron Flanged Valves in sizes 2-1/2 through 6 in. Kits are available to fit older Johnson Controls valves for easy conversion from pneumatic or older electric actuator installations.

Features

- dedicated models facilitate quick and easy installation regardless of the valve stroke and electric actuator chosen
- single anti-rotation bracket allows one linkage to accommodate spring return and non-spring return electric actuators

- two-bolt coupler clamp provides quick and easy coupling of the linkage to the valve stem
- easy to convert from single to tandem actuators to accommodate changing shutoff requirements

To Order

Specify the code number in the selection chart on the following page.

Accessories

Code Number	Description		
M9000-610	Tandem Adapter Kit (converts single actuator linkage kit into tandem actuator linkage kit). Includes: Shaft with spring clip, cable, strain relief, Anti-Rotation bracket with screws, and two plug-in terminal blocks.		

Specifications

	M9000-53x Series Cast Iron FI	anged Valve Linkage Kits				
Service ^(a)	Hot Water, Chilled Water, 50/50 Glycol Solution Conditioning (HVAC) Systems	Chilled Water, 50/50 Glycol Solutions, and 15 psig (103 kPa) Saturated Steam for Heating, Ventilating, and Air (HVAC) Systems				
	378 lb (1684 N) minimum with M9 M9000-530 605 lb (2691 N) minimum with M9 286 lb (1552 N) minimum with M9	0124 Series Actuator				
	238 lb (1060 N) minimum with M9 M9000-531 380 lb (1694 N) minimum with M9 180 lb (803 N) minimum with M9	2124 Series Actuator				
	M9000-532 761 lb (3385 N) minimum with Ta 361 lb (1605 N) minimum with Ta					
Force Output	M9000-533 315 lb (1405 N) minimum with MS	124 Series Actuator				
	M9000-534 631 lb (2806 N) minimum with Ta 300 lb (1332 N) minimum with Ta					
	M9000-535 280 lb (1248 N) minimum with MS	124 Series Actuator				
	M9000-536 561 lb (2495 N) minimum with Ta 266 lb (1183 N) minimum with Ta					
	M9000-537 761 lb (3385 N) minimum with Ta 361 lb (1605 N) minimum with Ta					
	M9000-530 3/4 in. (19 mm) (Nominal)					
	M9000-531 1-1/8 in. (29 mm) (Nominal)					
Valve Stroke	M9000-532 1-1/8 in. (29 mm) Nominal					
	M9000-533 1-3/8 in. (35 mm) (Nominal)					
	M9000-534 1-3/8 in. (35 mm) Nominal					
	M9000-535 1-1/2 in. (38 mm) (Nominal)					
	M9000-536 1-1/2 in. (38 mm) Nominal					
	M9000-537 1-1/8 in. (29 mm) Nominal					
Minimum Ambient Operat Limited by the Valve)	g Temperature 35°F (2°C) in Water and Steam A	pplications				
Maximum Ambient Opera Limited by the Actuator)	ng Temperature ^(b) 122°F (50°C) in Water Application 100°F (38°C) in Steam Application	122°F (50°C) in Water Applications; 100°F (38°C) in Steam Applications Between 212 and 250°F (100 and 121°C)				
Shipping Weight	7-1/2 lb (3.4 kg)					

⁽a) Proper water treatment is recommended; refer to VDI 2035 Standard.

⁽b) In steam applications, install the valve with the stem horizontal to the piping, and wrap the valve with insulation.



M9000-53x Series Cast Iron Flanged Valve Linkage Kits (Continued)

Selection Chart

Valve Size, in.	Valve Code Number	Discontinued Valve Code Numbers that Are Compatible with Linkage Kit	Nominal Valve Stroke, in.	Valve Stem Dia., in.	Actuator Base Number ^(a)	Number of Actuators Required	Linkage Kit Code Number
2-1/2	VG2231TM VG2431TM VG2831TM	V-5252-4, -5, -6, -7, -8, -32, -33 V-5462-6, -7, -34 V-5842-7, -8, -31 VB-3752-19 VB-3970-11 VB-4322-9	3/4	3/8	M9116 M9124 M9216	One	M9000-530 ^(b)
	VG2231UM VG2431UM	V-5252-9, -10, -11, -12, -13, -34, -35 V-5462-8, -9, -35 V-5842-9, -10, -32	1-1/8				M9000-531 ^(c)
3	3 VG2831UM	VB-3752-22 VB-3970-14 VB-4322-11			M9124 M9216 ^(d)	Two	M9000-532
	VG2231UN VG2431UN VG2831UN	V-5462-10, -36 V-5842-17, -18, -33		1/2			M9000-537
VG2431V VG2831V VG2231V VG2431V	VG2231VM	VM V-5842-9, -10, -32		3/8	M9124 M9216	One	M9000-531 ^(c)
	VG2431VM VG2831VM				M9124 M9216 ^(d)	Two	M9000-532
	VG2231VN VG2431VN VG2831VN	V-5252-15, -16, -37 V-5462-13, -14, -38 V-5842-11, -12, -34					M9000-537
5 VG	VG2231WN VG2431WN VG2831WN	V-5252-17, -18, -38 V-5462-15, -16, -39 V-5842-13, -14,-35 VB-3752-28 VB-3970-20 VB-4322-19	1-3/8	1/2	M9124 M9216	One	M9000-533 ^(c)
					M9124 M9216 ^(d)	Two	M9000-534
6	VG2231YN VG2431YN VG2831YN	V-5842-15, -16, -36 31YN V-5842-15, -16, -36	1-1/2		M9124 M9216	One	M9000-535 ^(c)
					M9124 M9216 ^(d)	Two	M9000-536

⁽a) M9116 and M9124 Series Electric Actuators are non-spring return. M9216 Series Electric Actuators are spring return.

⁽b) The M9000-530 cannot be retrofitted with the M9000-610 Tandem Adapter Kit.

⁽c) Linkages can be retrofitted with a tandem actuator using an M9100-610 Tandem Adapter Kit.

⁽d) M9116-AGx-2 and M9216-AGx-2 Series Electric Actuators cannot be used in tandem configuration.