

# Gas Valve Actuators

## Selection Chart: V5055 and V5097 Industrial Gas Valves with V4055, V4062 or V9055 Fluid Power Actuators

The chart below describes every model of V5055 or V5097 Valve in the left column, and every model of Fluid Power Actuator across the top. While it's possible to combine any valve with any actuator, we've marked the recommended valve/actuator combinations which cover most applications with a •.

Each valve described in the left column is available:

- In these sizes: 3/4 to 3 in. (NPT or parallel BSP). V5055A, B, C are also available in 4 in. size (flange connection only).
- With upstream and/or downstream tap.

Options available on some Fluid Power Actuators include:

- Damper arm shaft, with or without spring return.
- NEMA 4 enclosure.
- Fast or slow open time (13 or 26 seconds).
- Auxiliary switch.
- Valve seal overtravel interlock switch.

For complete specifications and ordering information on V5055 and V5097 Valves and V4055, V4062 and V9055 Fluid Power Actuators, refer to Index for specific page numbers.

Fluid Power Actuators/ Industrial Gas Valves			Standard pressure <sup>a</sup>			High Pressure <sup>a</sup>	
			V5055A, F <sup>b</sup> , V5097A	V5055B, V5097B	V5055C, V5097C	V5055D, V5097D	V5055E, V5097E
Type	Model	Pressure Rating <sup>a</sup>	On-Off	Characterized Guide <sup>c</sup>	VS01 <sup>d</sup>	On-Off	VS01 <sup>d</sup>
V4055 On-Off	A, G <sup>e</sup>	Standard	•	•		•	
	B	High	• <sup>f</sup>	• <sup>f</sup>		•	
	D <sup>d</sup> F <sup>d,e</sup>	Standard			•		•
	E <sup>d</sup>	High			• <sup>f</sup>		•
V4062 Hi-Lo-Off	A	Standard		•	•		
	B	High		• <sup>f</sup>	• <sup>f</sup>		•
	D <sup>d</sup>	Standard			•		
V9055 Modulating	A	Standard		•			
	D <sup>d</sup>	Standard			•		

<sup>a</sup> Refer to the table below for actual pressure ratings of the various combinations of valves and actuators.

<sup>b</sup> V5055F models meet EN161 leakage requirements.

<sup>c</sup> Characterized guide provides a more linear relationship between stem travel and gas flow. Check Honeywell form 70-8311 to verify that flow curve characteristics match application requirements.

<sup>d</sup> Valve Seal Overtravel Interlock. Valve has two shutoff seals, actuator has a proof-of-closure switch.

<sup>e</sup> V4055F, G models include switch for manual control.

<sup>f</sup> These combinations have higher pressure ratings; see the table below.

The following combinations of V5055 and V5097 Valves, and V4055, V4062 and V9055 Fluid Power Actuators are approved by these agencies.

**Underwriters Laboratories, Inc:** Listed: MH1639

- V4055A/V5055A-E (3/4-4 in.) or V5097A-E (3/4-3 in.).
- V4055B/V5055A-E (3/4-4 in.) or V5097A-E (3/4-3 in.).
- V4055D/V5055A-E (3/4-4 in.) or V5097A-E (3/4-3 in.).
- V4055E/V5055A-E (3/4-4 in.) or V5097A-E (3/4-3 in.).
- V4055F/V5055A-E (3/4-4 in.<sup>a</sup>) or V5097A-E (3/4-3 in.).
- V4055G/V5055A-E (3/4-4 in.<sup>a</sup>) or V5097A-E (3/4-3 in.).
- V4062A, D/V5055A-E (3/4-4 in.) or V5097A-E (3/4-3 in.).
- V9055A, D/V5055A, B, C, E (3/4-4 in.) or V5097A-E (3/4-3 in.).

**Factory Mutual Approved:** Report No. 20698, 20835, 21172 and 24061:

**Valve Actuator Approvals:**

- V4055A/V5055A and V5097A.
- V4055D/V5055C and V5097C.
- V4055A/V5055B and V5097B.
- V4055B/V5055D and V5097D.
- V4055E/V5055E and V5097E.
- V4055F/V5055C<sup>a</sup> and V5097C.
- V4055G/V5055A, B<sup>a</sup> and V5097A, B.
- V9055A/V5055B, C and V5097B, C.

<sup>a</sup> Manual reset safety shut-off valves.

### Pressure Ratings of Valve-Actuator Combinations

Model	Pipe Size	Standard Pressure Actuators V4055A, D, F, G, V4062A, D, V9055A, D				High Pressure Actuators V4055B, E, V4062B			
		M.O.P.D. <sup>a</sup>		Max. Rated Pressure <sup>b</sup>		M.O.P.D. <sup>a</sup>		Max. Rated Pressure <sup>b</sup>	
Standard Pressure Valves V5055A, B, C, F, V5097A, B, C	3/4" to 1-1/2" <sup>c</sup>	5 PSI	340 mbar	15 PSI	1.0 Bar	15 PSI	1030 mbar	15 PSI	1.0 Bar
	2" to 3" <sup>d</sup>	5 PSI	340 mbar	15 PSI	1.0 Bar	15 PSI	1030 mbar	15 PSI	1.0 Bar
	4" flanged <sup>e</sup>	3 PSI	207 mbar	15 PSI	1.0 Bar	5 PSI	340 mbar	15 PSI	1.0 Bar
High Pressure Valves V5055D, E, V5097D, E	3/4" to 1-1/2" <sup>c</sup>	5 PSI	340 mbar	75 PSI	5.0 Bar	25 PSI	1720 mbar	75 PSI	5.0 Bar
	2" to 3" <sup>d</sup>	5 PSI	340 mbar	45 PSI	3.0 Bar	15 PSI	1030 mbar	45 PSI	3.0 Bar

<sup>a</sup> Max Operating Pressure Differential (UL) or Max Operating Pressure (CSA); maximum allowable pressure drop from inlet to outlet for proper operation.

<sup>b</sup> Max Rated Pressure (UL) or Max Close-off Pressure (CSA); maximum pressure that the valve can be exposed to without leakage or damage to the valve.

<sup>c</sup> Applies for small-body V5097 valves 3/4" up to 2" pipe size.

<sup>d</sup> Applies for large-body V5097 valves 2" up to 3" pipe size.

<sup>e</sup> V5055A, B, C only.