

# Industrial Gas Valves

## V5097 Integrated Valve Train



**Safety shutoff valves used with V4055, V4062 and V9055 fluid power actuators to control gas flow to commercial and industrial burners.**

- Use with natural or LP gases.
- Mount directly in gas supply line.
- Two Valve body types. Small body type for 3/4 in., 1 in., 1-1/4 in., 1-1/2 in., 2 in. pipes. Large body types for 2 in., 2-1/2 in. and 3 in. pipes.
- Seven pipe adapter sizes from 3/4 in. to 3 in. have NPT or BSP threaded connections.
- Provides three 1/4 in. upstream and two 1/4 in. downstream tap and plug.
- CE version provides an additional downstream tap and plug.
- Yellow SHUT indicator attached to the valve stem provides an indication of the valve closed position.

- V5097A, C, D, E Valves are for on-off service.
- V5097B Valve has a characterized guide and in combination with the V4055, V4062 and V9055 Fluid Power Actuators, provides slow-opening, HI-LO-OFF, and modulating functions, respectively.
- V5097C, E Valves have a double seal and are used with V4055D, E Actuators to provide proof-of-closure switch and valve seal over-travel interlock.
- Actuators to provide proof-of-closure switch and valve seal over-travel interlock.
- V5097D, E Valves are for high pressure applications.
- Two valve body types (small and large) applicable to server pipe size.

**Operating Temperature Range:** -40°F to +150°F; When used with V9055 – -40°F to +125°F (-40°C to +66°C; When used with V9055 – -40°C to +52°C)

**Approvals, Underwriters Laboratories Inc.:** When used with V4055A, B, D, E, V4062, V9055: Listed, File No. MH1639 Guide No. YIOZ

**Approvals, CSA:** When used with V4055, V4062, and V5097: Certified General listed File No. 158158, Class 3371 for USA and Canada

**Approvals, Swiss RE:** When used with the V4055A, G: Approved, Report Nos. 20698, 20835, 21172, and 24061

**Approvals, CE:** CE #E3070 (Gastec)

**Comments:** Select Proper Pipe Adapter

**Includes:** Three 1/4 in. -18 NPT upstream and two 1/4 in. -18 NPT downstream taps

**Used With:** V9055; V4055; V4062

Material Number	Pipe Size (inch)	Pipe Size (DN)	Capacity (cfh)	Capacity (m <sup>3</sup> /hr)	Maximum Operating Differential Pressure	Integrated Valve Train Body Size	Approvals, Factory Mutual
V5097A1004/U	3/4 in. or 1 in. or 1 1/4 in. or 2 in.	DN20 or DN25 or DN32 or DN50	665 cfh to 3620 cfh	18.8 to 102.5 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Small body	When used with the V4055A, G: Approved, Report Nos. 20698, 20835, 21172, and 24061
V5097A1012/U	2 in. or 2 1/2 in. or 3 in.	DN50 or DN65 or DN80	3620 cfh to 5230 cfh	102.5 to 148.0 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Large body	When used with the V4055A, G: Approved, Report Nos. 20698, 20835, 21172, and 24061
V5097B1002/U	3/4 in. or 1 in. or 1 1/4 in. or 2 in.	DN20 or DN25 or DN32 or DN50	665 cfh to 3620 cfh		With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Small body	When used with the V4055A, G and V9055A: Approved, Report Nos. 20698, 20835, 21172, and 24061
V5097B1010/U	2 in. or 2 1/2 in. or 3 in.	DN50 or DN65 or DN80	3620 cfh to 5230 cfh	102.5 to 148.0 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Large body	When used with the V4055A, G and V9055A: Approved, Report Nos. 20698, 20835, 21172, and 24061
V5097C1000/U	3/4 in. or 1 in. or 1 1/4 in. or 2 in.	DN20 or DN25 or DN32 or DN50	665 cfh to 3620 cfh	18.8 to 102.5 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Small body	When used with the V4055D, F and V9055A: Approved, Report Nos. 20698, 20835, 21172, and 24066
V5097C1018/U	2 in. or 2 1/2 in. or 3 in.	DN50 or DN65 or DN80	3620 cfh to 5230 cfh	102.5 to 148.0 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Large body	When used with the V4055D, F and V9055A: Approved, Report Nos. 20698, 20835, 21172, and 24066
V5097D1008/U	3/4 in. or 1 in. or 1 1/4 in. or 2 in.	DN20 or DN25 or DN32 or DN50	665 cfh to 3620 cfh	18.8 to 102.5 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 25 psi (1.6 bar)	Small body	When used with the V4055B: Approved, Report Nos. 20698, 20835, 21172, and 24068
V5097D1016/U	2 in. or 2 1/2 in. or 3 in.	DN50 or DN65 or DN80	3620 cfh to 5230 cfh	102.5 to 148.0 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Large body	When used with the V4055B: Approved, Report Nos. 20698, 20835, 21172, and 24068
V5097E1005/U	3/4 in. or 1 in. or 1 1/4 in. or 2 in.	DN20 or DN25 or DN32 or DN50	665 cfh to 3620 cfh	18.8 to 102.5 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 25 psi (1.6 bar)	Small body	When used with the V4055E: Approved, Report Nos. 20698, 20835, 21172, and 24068
V5097E1013/U	2 in. or 2 1/2 in. or 3 in.	DN50 or DN65 or DN80	3620 cfh to 5230 cfh	102.5 to 148.0 m <sup>3</sup> /hr	With V4055A, D or V4062 – 5 psi (340 mbar); With V4055B or E – 15 psi (1 bar)	Large body	When used with the V4055E: Approved, Report Nos. 20698, 20835, 21172, and 24068