

CV5600 Series

Check Valves

Check valves ensure that gases or liquids flow in one direction only. When used on the outlet line of pressure regulators, they prevent back flow of fluids into the regulator. When used in cylinder pigtails, they prevent gas flow from one cylinder into another on the same manifold. They also stop air from entering the pigtail and manifold when a cylinder is removed.

These check valves are bubble-tight against any back pressure.

Note: Check valves are also available housed within a CGA connection – see pages 156 and 157 for additional information.



1/4" NPT Male
x 1/4" NPT Female
Check Valve



1/4" Compression
x 1/4" NPT Male
Check Valve

Specifications

Maximum Operating Pressure: See Table I

Cracking Pressure: See Table I

Flow Coefficient: See Table I

Inlet and Outlet Connections: See Table I

Approximate Weight: 4 oz

Materials of Construction

Body: See Table I

Spring and Poppet:

Brass and SS Valves: Type 316L SS

Monel® Valve: Monel® R-405

Seals: See Table I



1/4" Compression
Check Valve



1/4" NPT Female
Check Valve



1/4" Male Vacuum
Check Valve



1/4" NPT Male
Check Valve

Table I

Part No.	Maximum Operating Pressure (psig)	Cracking Pressure (psig)	Connections		Body Material	Seal Material	Flow Coefficient (Cv)
			Inlet	Outlet			
CV5651	3000	1.0	1/4" NPT male	1/4" NPT male	Brass	Viton®	0.5
CV5652N	3000	1.0	1/4" NPT female	1/4" NPT female	Brass	Viton®	0.35
CV5653	3000	1.0	1/4" compression	1/4" compression	Brass	Viton®	0.5
CV5654	3000	5.0	1/4" NPT male	1/4" NPT female	Brass	Viton®	0.5
CV5660	6000	1.0	1/4" NPT male	1/4" NPT male	316 SS	Buna-N	0.5
CV5661	6000	1.0	1/4" NPT male	1/4" NPT male	316 SS	Viton®	0.5
CV5663N	3000	1.0	1/4" NPT female	1/4" NPT female	316 SS	Viton®	0.35
CV5665N	3000	1.0	1/4" NPT female	1/4" NPT female	316 SS	Neoprene	0.35
CV5666	6000	1.0	1/4" compression	1/4" compression	316 SS	Viton®	0.5
CV5667	3000	1.0	1/4" compression	1/4" compression	316 SS	Kalrez®	0.42
CV5668	6000	1.0	1/4" compression	1/4" compression	316 SS	Buna-N	0.5
CV5669	6000	5.0	1/4" NPT male	1/4" NPT female	316 SS	Viton®	0.5
CV5670	3000	1.0	1/4" compression	1/4" NPT male	Brass	Viton®	0.5
CV5672	6000	1.0	1/4" compression	1/4" NPT male	316 SS	Viton®	0.5
CV5674	3000	1.0	1/4" male vacuum*	1/4" male vacuum*	316L SS	Viton®	0.36
CV5675	3000	1.0	1/4" male vacuum*	1/4" male vacuum*	316L SS	Kalrez®	0.36
CV5676N	3000	1.0	1/4" NPT female	1/4" NPT female	Monel®	Viton®	0.35
CV5677N	3000	1.0	1/4" NPT female	1/4" NPT female	316 SS	EPR	0.35

* Connection is compatible with 1/4" VCR® fittings.