

Vindum CV Valve Models and Specifications

Valve Model	Valve Type	Maximum Pressure	C _v *	Internal Volume	Wetted Material	Connection Size / Type	Valve Size (diameter x length)
CV-210	2-Way (On/Off)	10,000 psi (689 bar)	0.055	0.11 cc	Stainless Steel or Hastelloy C-276	1/8" W-125 AE SpeedBite	2.00" x 1.70" (5.0 cm x 4.3 cm)
CV-310	3-Way (4-Position)	10,000 psi (689 bar)	0.055	0.31 cc	Stainless Steel or Hastelloy C-276	1/8" W-125 AE SpeedBite	2.00" x 3.64" (5.0 cm x 9.2 cm)
CV-405	2-Way (On/Off)	5,000 psi (345 bar)	0.1	0.44 cc	Stainless Steel or Hastelloy C-276	1/4" SW-250 AE SpeedBite	2.25" x 1.95" (5.7 cm x 4.9 cm)
CV-410	2-Way (On/Off)	10,000 psi (689 bar)	0.085	0.44 cc	Stainless Steel or Hastelloy C-276	1/4" SW-250 AE SpeedBite	2.25" x 1.95" (5.7 cm x 4.9 cm)
CV-420	2-Way (On/Off)	20,000 psi (1,379 bar)	0.05	0.22 cc	Stainless Steel or Hastelloy C-276	1/4" SW-250 AE SpeedBite	2.25" x 1.95" (5.7 cm x 4.9 cm)
CV-505	3-Way (4-Position)	5,000 psi (345 bar)	0.1	1.08 cc	Stainless Steel or Hastelloy C-276	1/4" SW-250 AE SpeedBite	2.25" x 4.435" (5.7 cm x 11.3 cm)
CV-510	3-Way (4-Position)	10,000 psi (689 bar)	0.085	0.74 cc	Stainless Steel or Hastelloy C-276	1/4" SW-250 AE SpeedBite	2.25" x 4.435" (5.7 cm x 11.3 cm)
CV-520	3-Way (4-Position)	20,000 psi (1,379 bar)	0.05	0.62 cc	Stainless Steel or Hastelloy C-276	1/4" SW-250 AE SpeedBite	2.25" x 4.435" (5.7 cm x 11.3 cm)

* Flow coefficient (approximate), US gallons of water per minute with 1 psi pressure drop @ 60F

Valve Seals Options and Selection

The fluid seal in Vindum CV Valves is a standard O-ring design with back up rings. The standard O-ring material in CV valves is Viton, although customers may specify any number of other O-ring materials to suit their applications. Vindum Engineering offers the following seal materials: Viton, Teflon, Buna-N, UHMW-PE, AFLAS, EPDM, and Chemraz.

Determining the best O-ring material for your application can be done with the help of several online resources that list the chemical compatibility of a variety of O-ring materials. Because we do not have first-hand experience with the range of fluids used by customers, we refer customers to these resources to determine their O-ring seal requirements. Because these resources are not always consistent, we recommend checking multiple resources.

- **Parker O-ring Handbook:** perhaps the frequently cited reference for O-ring material compatibility
(https://www.parker.com/literature/ORD%205700%20Parker_O-Ring_Handbook.pdf)
- **Graco Chemical Compatibility Guide:** http://www.graco.com/content/dam/graco/ipd/literature/misc/chemical-compatibility-guide/Graco_ChemCompGuideEN-B.pdf
- **Goodyear Chemical Resistance Charts:** <http://www.hosecon.com/pdf/engineering/common/goodyearchemchart.pdf>