



Fluid Control Components | Coolant Control Valve | SEIMITSU

[SEIMITSU](#) represents [Fluid Control Components](#) (valve) that is resistant to foreign matter and specialized for coolant control in [machine tools](#).

Following are the features explained descriptively.

Referral Link: https://medium.com/@marketing_70322/fluid-control-components-coolant-control-valve-seimitsu-74134cca7218

Detailed product information please visit our website: www.seimitsu.in

SEIMITSU's Fluid Control Components Specialized for below Specifications



**3-port valve for low pressure
(coolant valve) CV3E. CVS3E**

Item	CV3E/CVS3E	
	20A	25A
Actuation	Directional (COM port pressurization only)	
Working fluid	Coolant	
Fluid viscosity mm ² /s	500 or less	
Working pressure MPa	0 (=0 psi, 0 bar) to 0.3 (=44 psi, 3 bar)	
Proof pressure (water pressure) MPa	2.0 (=290 psi, 20 bar)	
Fluid temperature °C	-10 (14°F) to 60 (140°F)	
Ambient temperature °C	-10 (14°F) to 60 (140°F)	
Valve seat leakage cm ³ /min	20 or less	
Orifice size mm	22.8 or equiv.	29.3 or equiv.
Cv	12.5	20
Port size	Rc3/4	Rc1
Weight kg	2.2(2.1) *1	3.9(3.8) *1
Pilot fluid	Air	
Pilot pressure MPa	0.25 (=36 psi, 2.5 bar) to 0.5 (=73 psi, 5 bar)	
Pilot port size	Rc1/4	
Mounting orientation	Unrestricted	

Item	CCH-10	CCH-15	CCH-20
Working fluid	Coolant/water/other non-corrosive liquids (*1)		
Fluid viscosity mm ² /s	500 or less		
Max. working pressure MPa	7.0 (=10000 psi, 70 bar)		
Proof pressure (water pressure) MPa	14.0 (=2000 psi, 140 bar)		
Fluid temperature °C	-10 (14°F) to 60 (140°F) (no freezing)		
Ambient temperature °C	-10 (14°F) to 60 (140°F)		
Cracking pressure kPa	6 (=870 psi, 60 bar) (reference value) (*2)		
Valve seat leakage cm ³ /min	1.0 or less (water pressure)		
Port size	Rc3/8	Rc1/2	Rc3/4
Cv	3.6	6.9	11.0
Weight kg	0.27	0.44	0.88
Mounting orientation	Unrestricted		



**Check Valve for
(Coolant Control) CCH**



**Pressure Switch for
Coolants CPE.CPD**

Item	CPE
Working fluid	Coolant, air, other non-corrosive liquids, gases
Rated pressure MPa	0 (=0 psi, 0 bar) to 1.0 (=150 psi, 10 bar)
Proof pressure (water pressure) MPa	1.5 (=220 psi, 15 bar)
Pressure adjusting range MPa	0.05 (=7.3 psi, 0.5 bar) to 0.8 (=120 psi, 8 bar)
Fluid temperature °C	0 (32°F) to 50 (122°F)
Ambient temperature °C	0 (32°F) to 50 (122°F)
Port size	Rc1/4
Micro switch	Z-15GD-B (OMRON)
Contact array	1ab
Hysteresis MPa	0.04 (=5.8 psi) or less (set pressure 0.05 (=7.3 psi) to 0.3 (=44 psi)) 0.1 (=15 psi) or less (set pressure 0.31 (=45 psi) to 0.8 (=120 psi))
Repeatability MPa	±0.02 (=2.9 psi, 0.2 bar)
Allowable operation frequency times/min.	20
Rated voltage	100 VAC, 200 VAC, 24 VDC
Insulation resistance MΩ	100 or more (with 500 VDC megger)
Weight kg	0.58
Mounting orientation	Vertical direction with the adjusting screw up
Degree of protection	IP65 (dust proof/jet-proof) equivalent

Model No.	CVE2/CVSE2	CVE22/CVSE22
Actuation	NC	NO
Working fluid	Coolant/other non-corrosive liquids (*1)	
Fluid viscosity mm ² /s	500 or less	
Working pressure MPa	0 (=0 psi, 0 bar) to 0.5 (=73 psi, 5 bar)	
Proof pressure (water pressure) MPa	2.0 (=290 psi, 20 bar)	
Fluid temperature °C	-10 (14°F) to 60 (140°F) (no freezing)	
Ambient temperature °C	-10 (14°F) to 60 (140°F)	
Valve seat leakage cm ³ /min	20 or less (water pressure) (*2)	
Mounting orientation	Unrestricted	
Pilot fluid	Air	
Pilot pressure MPa	0.25 (=36 psi, 2.5 bar) to 0.7 (=100 psi, 7 bar)	



**Air Operated 2-port valve
(Coolant Valve)
CVE2 · CVSE2 · GCVE2 · GCVSE2**

