

DATASHEET C2I-C5I-VALVES

Series C2I, C5I

Liquid Flow Valves



Liquid Flow Control Valves

Bronkhorst® mass flow meters for liquids can be connected to a control valve to form a closed control loop. The standard direct acting valve, model C2I, is normally closed, has a pressure capability of 100 bar (1500 psi) and a purge connection for easy elimination of air or gas.

For liquid flow applications with higher flow rates and pressure rating up to 100 bar, Bronkhorst designed the control valve model C5I, however this control valve may also be used for gas flow applications.

C2I and C5I control valves are directly operated by a magnetic coil with IP65 (weatherproof) housing and are closed when de-energized (Normally Closed).

Depending on flow rate and fluid the liquid flow control valves allows a pressure drop of max. 5 to 40 bar (d).

Technical specifications

Measurement / control system

Operating temperature	-10... 70 °C
Max. Kv-value	C2I: $2,37 \times 10^{-3}$; C5I: $6,6 \times 10^{-2}$

Mechanical parts

Outer seals	metal sealed
Material (wetted parts)	stainless steel 316L or comparable
Pressure rating (PN)	100 bar a
Max. ΔP	5...40 bar (depends on Kv-value; contact your distributor for details)
Process connections	compression type or face seal (VCR/VCO) couplings
Protection class	IP65
Plunger	Kalrez® (FFKM); other on request

Electrical properties

Power supply	+15...24 Vdc +/-10%
Max. power consumption	4 W

Electrical connection

Control valve options

External actuator options to be connected to the controller

Ex-proof specifications

Approvals / certificates

Technical specifications subject to change without notice.

For dimensional drawings and hook-up diagrams please visit the [product page](#) on our [website](#)

Related products



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