

CONTROL VALVE

C700 Series Low-Noise Control Valve

REF **EFC-473** ISSUED 06 Jul 2026

SPECIFICATIONS

Size	DN25 to DN700
Pressure	PN16 to CL2500
Temperature	-196°C to 525°C
Media	Compressible fluids (gases), Water, Petroleum/petrochemical fluids, Chemical fluids, Metallurgical process fluids, LNG, Air separation process gases

ACTUATION

- Pneumatic diaphragm (multi-spring) — RSMF series multi-spring pneumatic diaphragm actuator
- Electric
- Manual
- Pneumohydraulic linkage
- Electro-hydraulic linkage

APPLICATIONS

- Petroleum and petrochemical
- Chemical engineering
- Metallurgy
- Power stations
- Air separation equipment
- Liquefied natural gas (LNG)
- Water supply
- Mining
- Light textile
- Energy
- Papermaking
- Food processing
- Steel industry



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	WCB, WCC, LCB, LCC, WC6, WC9, CF8, CF8M, CF3, CF3M
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FEATURES

- Multi-stage valve cores and porous sleeve structure to gradually reduce fluid velocity, disperse energy, and minimise turbulence and cavitation
- Noise reduction typically 20-40 dB compared to conventional control valves
- S-shaped streamline fluid passage with deflector wing for smooth flow around the sleeve
- Pressure-balanced valve core structure enabling high-pressure-difference control with reduced actuator output force
- Sleeve equipped with multiple symmetrical small holes to reduce pressure drop
- Flow characteristics: linear or equal percentage
- CDN702 dual-directional structure ensures valve stability under high differential pressure
- RSMF series multi-spring pneumatic diaphragm actuator: compact structure, high output force, long service life
- Suitable for fluid flow, pressure, temperature, and liquid level regulation

OPTIONS & NOTES

- Material list ends with '....' indicating additional materials available on request
- NPS range stated as 1" to 28" (equivalent to DN25–DN700)