

CONTROL VALVE

C700 Series Single-seat Control Valve

REF EFC-461 ISSUED 06 Jul 2026

SPECIFICATIONS

Size	DN15 to DN300
Pressure	PN16 to CL2500
End connection	flanged / flanged / flanged / flanged / flanged / flanged (ASME) / flanged (ASME) / flanged (ASME) / flanged (ASME) / flanged (ASME)
Temperature	-196°C to 525°C
Media	Water, Petroleum/petrochemical fluids, Chemical fluids, Metallurgical process fluids, Cryogenic fluids, Strong corrosive media (acids and alkalis) — CF701 variant, Toxic and volatile media — CF701 variant



ACTUATION

- Pneumatic — RSMF multi-spring pneumatic diaphragm actuator; air-to-open or air-to-close; compact structure, large output force, sensitive action, high-precision positioning, fast response
- Electric
- Manual

APPLICATIONS

- Water supply pipeline systems
- Petrochemical industry
- Metallurgy
- Mining
- Textile
- Energy
- Paper industry
- Food industry
- Steel industry
- Power stations

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

- Air separation equipment
- Liquefied natural gas (LNG)

MATERIALS

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

FEATURES

- Top-guided valve structure
- S-shaped streamlined fluid channel
- Low pressure drop loss
- Large flow capacity (large Cv)
- Wide adjustable range
- High accuracy of flow characteristic curve
- Large guiding area of valve core
- Good vibration resistance
- Air-to-open or air-to-close functionality
- Multi-spring diaphragm actuator with compact structure and large output force
- Quick replacement and easy maintenance
- Cage-guided option (C702-1) providing protection against flash evaporation and cavitation
- Cryogenic option (CUT701) for temperatures down to -196°C
- Jacketed option (CJ701) with steam heating and insulation
- PTFE-lined option (CF701) with F46 lining and dual PTFE bellows/packing sealing system

OPTIONS & NOTES

- Working condition optional
- Actuator accessories available — refer to download section
- Pneumatic, Electric, Manual actuation listed as 'etc.' implying additional options may be available on request