

Datasheet Series F-033CI

Vary-P control valves for high pressure / high ΔP

> Introduction

For applications with high (differential) pressure, Bronkhorst designed the Vary-P control valve series. The Vary-P valve model F-033CI is suited for a maximum of 400 bar and can control up to approximately 100 l/min Air-equivalent. It is a two-phase control valve: the valve module on top of the base body is the flow control section, and the other section is a pressure compensation valve that maintains a constant pressure difference of 4 bar. This design allows both the inlet and outlet pressures to change without impacting the valve's function. The vary-p control valve is a proportional, electro-magnetic control valve, featuring extremely fast and smooth flow control characteristics.



Control Valve model F-033CI

> Technical specifications

Control specifications

Max. flow rate : approx. 100 l/min (based on Air)
Temperature range : -10...+70°C

Mechanical parts

Material (wetted parts) : stainless steel 316L or comparable
Pressure rating : 400 bar (g)
Differential pressure (ΔP) : 6...400 bar (d)
Process connections : compression type
Seals / Plunger : Standard: FKM/Viton®;
Optional: FFKM/Kalrez®, EPDM
Weight : 2.7 kg
Protection class : IP65

Electrical properties

Valve control signal : 0...185 mA
Power consumption (at 15 Vdc) : max. 3.5 W
Coil resistance : 62 Ohm

Although all specifications in this datasheet are believed to be accurate, the right is reserved to make changes without notice or obligation.

> Dimensions (mm)

