

Datasheet model V-30I

control valve for gas applications

> Introduction

Bronkhorst designed the control valve model V-30I for gas flow applications with low flow rates and pressure rating up to 200 bar. This control valve is directly operated by a magnetic coil with IP65 (weatherproof) housing and is closed when de-energized (Normally Closed). The V30I valve allows a pressure drop of max. 200 bar (d). Together with Bronkhorst mass flow meters it offers possibilities to constitute a compact flow or pressure control loop.

> Technical specifications

Operating conditions

Max. pressure : 200 bar g
Operating temperature : 10...+70°C

Mechanical parts

Material (wetted parts) : stainless steel 316L or comparable
Process connections : compression type or face seal
Seals / Plunger, standard : Viton/FKM with PTFE plunger
Leak integrity, outboard : $1 \cdot 10^{-9}$ mbar.l/s He

Electrical specifications

Valve control signal : 0...185 mA
Coil resistance : IP65: 62 Ohm
Max. power consumption : 2,7 Watt (15 V · 0,185 A)
Ingress protection : IP65

Kv-values vs Max. ΔP

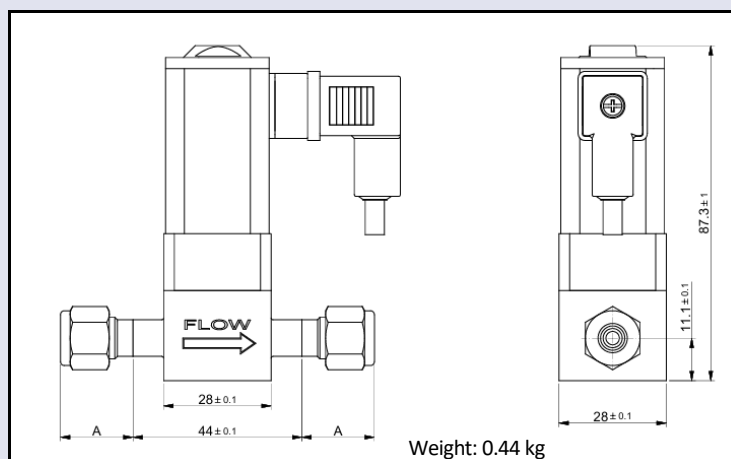
Kv-value (up to)	Orifice size (mm)	ΔP max (bar d)
4.3.10 ⁻⁵	0,05	200
6.4.10 ⁻⁵	0,07	200
1.7.10 ⁻⁴	0,10	200
3.3.10 ⁻⁴	0,14	200
6.9.10 ⁻⁴	0,20	200
1.5.10 ⁻³	0,30	200

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



Control Valve model V30I

> Dimensions (mm) and weights (kg)



Compression type	3/8" tube
adapter 3mm OD	18.0mm
adapter 6mm OD	18.9mm
adapter 8mm OD	26.6mm
adapter 10mm OD	39.7mm
adapter 12mm OD	42.4mm
adapter 1/16" OD	15.6mm
adapter 1/8" OD	17.5mm
adapter 1/4" OD	18.9mm
adapter 3/8" OD	26.4mm
adapter 1/2" OD	42.2mm

Face-seal male	3/8" tube
adapter 1/8" inlet	13.7mm
adapter 1/4" inlet	17.6mm
adapter 1/2" inlet	37.6mm



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