DATASHEET F-001

Series F-001, F-011, F-021

직접 구동 제어 밸브



Low Flow Control Valves for Gases

Control valves F-001 / F-011 are suitable for low flow rates (up to approx. $50 \, l_n$ /min N_2 -equivalent) with pressure ratings up to 64 resp. $100 \, bar$. The F-001 valve module is also used as pilot valve in bigger valves and controllers. F-021 is a direct acting control valve for high pressure applications, up to 200 bar.

기술정보

measurement / c	ontroi system
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Operating temperature	F-001AV / F-011AV / F-021AV: -10+70°C F-001AI / F-011AI / F-021AI: -10+70°C F-001AX / F-011AX: -10+65°C
Max. Kv-value	F-001 series: 6,6 x 10 ⁻² F-011 series: 6,6 x 10 ⁻² F-021 series: 1,56 x 10 ⁻³
Leak integrity, outboard	tested < 2 x 10 ⁻⁹ mbar l/s He

Mechanical parts

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Material (wetted parts)	stainless steel 316L/320;
	other on request
Pressure rating (PN)	F-001 series: 64 bar(a)
	F-011 series: 100 bar(a)
	F-021 series: 200 bar(a)
Max. ΔP	contact distributor (depends on Kv-value)
Process connections	compression type or face seal (VCR/VCO) couplings
Seals	< 100 bar: standard: Viton®;
	options: EPDM, Kalrez® (FFKM), FDA and USP Class VI approved compounds
	> 100 bar: Viton
Protection class	F-001AV / F-011AV / F-021AV: IP40
	F-001AI / F-011AI / F-021AI: IP65
	F-001AX-XBB / F-011AX-XBB; II 1 G/D Ex ia IIC T6
	F-001AX-XCB / F-011AX-XCB: II 2 G/D Ex e mb T4
Plunger	< 100 bar: standard: Viton®;
	options: EPDM, Kalrez® (FFKM), FDA and USP Class VI approved compounds
	> 100 bar: Viton

Electrical properties

Supply voltage	IP40 / IP65 style: 15 Vdc or 24 Vdc;
	Ex-proof coil XBB: max. 28 Vdc/110 mA;
	Ex-proof coil XCB: max. 24 Vdc
Valve control signal	0 185 mA
Coil resistance	IP40 / IP65 style: 62 Ohm;
	Ex-proof coil XBB: 295 Ohm;
	Ex-proof coil XCB: 65 Ohm
	(at 20°C)
De-energized position	Standard: Normally closed;
	Option: Normally opened
Electrical connection	IP40 coil: shielded cable;
	IP65 coil: DIN 43650 connection;
	Ex-proof coils: cable gland M20x1,5

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.

도면 및 배선연결 정보 <u>제품 페이지</u> 우리의 <u>웹사이트</u>

Related products



SERIES F-033, F-042

Vary-P 구동 제 어 밸 브

대략적인 최대 유량 100 In/min

최대 압력 400/700 bar

높은 (차압) 압력 응용에 적 합한 밸브



SERIE F-002A, F-003A, F-003B

Pilot 구 동 제 어 밸 브

대략적인 최대 유량 500

m3n/h

최대 압력 64/100 bar

최대 Kv값: 0.04...6.0



SERIES F-004A, F-004B

압력 보정 기능이 있는 벨로우 즈 제 어 밸브

대략적인 최대 유량 1000

In/min

낮은 (차압) 압력 응용에 적

합한 밸브

Kv값: 0.03...1.0



BRONKHORST KOREA CO. LTD

경기도 화성시 동탄순환대로 830 SK

V1 Center 209호

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