

Product data sheet

HV gate valve, Series 140, DN 160 (6") Ordering No. 14044-JE48

Description

JIS 160 Flange

Pneumatic, with 3-position actuator Actuator

> with solenoid valve - with position indicator

Feedthrough Rotary feedthrough

Technical data

< 1 · 10⁻⁹ mbar ls⁻¹ Leak rate Valve body

< 1 · 10⁻⁹ mbar ls⁻¹ - Valve seat

 $1 \cdot 10^{-8}$ mbar to 2 bar (abs) Pressure range

Differential pressure on the gate ≤ 2 bar

Differential pressure at opening ≤ 30 mbar

Conductance (molecular flow) - Nominal 5'150 ls-1

> - Min. adjustable 7.5 ls⁻¹ 200'000

Cycles until first service - Unheated and under

clean conditions

Temperature Valve body ≤ 150 °C (Maximum values: depending - Actuator ≤ 50 °C on operating conditions and ≤ 50 °C Solenoid ≤ 80 °C sealing materials) Position indicator

Heating and cooling rate 50 °C h-1

Material (main components) - Valve body AISI 304 (1.4301)

> - Mechanism AISI 304 (1.4301), AISI 301 (1.4310)

> > AISI 316L (1.4404)

FKM (Viton®), vulcanized Seal - Bonnet

FKM (Viton®), O-ring Gate FKM (Viton®), NBR Actuator

Mounting position any

Volume of pneumatic actuator 0.96 I / 0.034 ft³

Compressed air 4 – 7 bar / 58 – 102 psi

min. - max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

Actuation time - closing ≤ 3.5 s - opening ≤ 3.5 s

Weight 30 kg / 66 lbs

Created by: NIW	Release date: 31.10.2020	1/2
Modified by:	Release date:	1061602EA



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Behavior in case of compressed

air pressure drop

Valve closed

valve remains closed

Valve openMiddle position

undefined undefined

Behavior in case of power failure

Valve closed

valve remains closed

Valve openMiddle position

valve closes valve closes

Valve position indication

visual (mechanical)

Electrical connections

Solenoid valve (2x)

Type 5/2 way

Voltage Defined by order

Power consumption 2.5 W

SV1 OPEN/CLOSED					
SV2 INTERMEDIATE					
Valve/Ventil/Vanne					
[] ± -1		OPEN	INTERMEDIATE	CLOSED	
Front view	SV1 1,2	Power on	Power on	Power off	
910126	SV2 1,2	Power on	Power off	Power off	

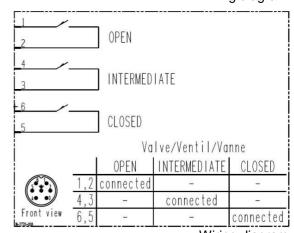
Wiring diagram

Position indicator

Type Micro switch

Voltage ≤ 250 V AC ≤ 50 V DC

Current max. $\leq 5 \text{ A} \leq 3 \text{ A}$



Wiring diagram

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