

Product data sheet

HV gate valve, Series 140, DN 100 (4") Ordering No. 14040-JE28

Description

Flange JIS 100

Actuator Pneumatic, with 3-position actuator

with position indicator

Feedthrough Rotary feedthrough

Technical data

Leak rate - Valve body $< 1 \cdot 10^{-9}$ mbar Is⁻¹

– Valve seat < 1 · 10⁻⁰ mbar ls⁻¹</p>

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

Differential pressure on the gate ≤ 2 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) – Nominal 1'740 ls⁻¹

– Min. adjustable
5 ls⁻¹

Cycles until first service – Unheated and under

clean conditions

Temperature – Valve body ≤ 150 °C

(Maximum values: depending — Actuator ≤ 50 °C on operating conditions and — Position indicator ≤ 80 °C

sealing materials)

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)

200'000

Seal – Bonnet FKM (Viton®), vulcanized

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

Mounting position any

Volume of pneumatic actuator 0.53 I / 0,019 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection G\(^{\%}\)" (\(^{\%}\)" NPT for USA)

Actuation time - closing $\leq 2.5 \text{ s}$

- opening ≤ 2.5 s

Weight 17 kg / 37 lbs

Created by: NIW	Release date: 27.10.2020	1/2
Modified by:	Release date:	1061111EA



Product data sheet

HV gate valve, Series 140, DN 100 (4") Ordering No. 14040-JE28

Behavior in case of compressed

air pressure drop – Va

Valve closedValve open

valve remains closed undefined

Middle position

undefined

Behavior in case of power failure

Valve closedValve open

- Middle position

depending on customer installation depending on customer installation

depending on customer installation

Valve position indication

visual (mechanical)

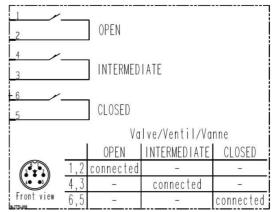
Electrical connections

Position indicator

Type Micro switch

Voltage \leq 250 V AC \leq 50 V DC

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



Wiring diagram

Created by: NIW	Release date: 27.10.2020	2/2
Modified by:	Release date:	1061111EA