

Product data sheet

HV gate valve, Series 140, DN 160 (ID 6") Ordering No. 14044-PE24

Description

Flange ISO-F 160

Actuator Pneumatic, double acting

- with position indicator

Feedthrough Rotary feedthrough

Technical data

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

- Valve seat $< 1 \cdot 10^{-9}$ mbar ls⁻¹

Pressure range 1 · 10⁻⁸ mbar to 2 bar (abs)

Differential pressure on the gate \leq 2 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) 5 150 Is⁻¹

Cycles until first service – Unheated and under 200 000

clean conditions

Temperature - Valve body \leq 150 °C (Maximum values: depending - Pneumatic actuator \leq 50 °C

on operating conditions and — Position indicator

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 316L (1.4404)

≤ 80 °C

Seal – Bonnet FKM (Viton®), Vulcanized

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

Mounting position any

Volume of pneumatic actuator 0.28 I / 0.01 ft³

Compressed air 4-7 bar / 58-102 psi

min. - max. overpressure

Compressed air connection R½" (½" NPT for USA)

Actuation time – closing 2.5 s

- opening 2.5 s

Weight 25 kg / 55 lbs

Created by: BRR	Release date: 2017-05-29	1 of 2
Modified by:	Release date:	896340EA



Product data sheet

HV gate valve, Series 140, DN 160 (ID 6") Ordering No. 14044-PE24

Behavior in case of compressed — Valve closed Valve remains closed

air pressure drop – Valve open Undefined

Behavior in case of power failure — Valve closed — Depends on customer installation

Valve open
 Depends on customer installation

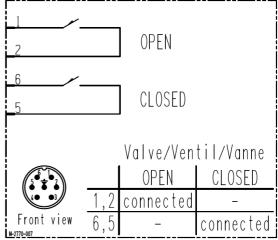
Electrical connections

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: BRR	Release date: 2017-05-29	2 of 2
Modified by:	Release date:	896340EA