

# Product data sheet HV gate valve, Series 091, DN 160 (ID 6'') Ordering No. 09144-CE44

Description	
Flange	CF-F 160
Actuator	pneumatic, double acting – with solenoid valve – with position indicator
Feedthrough	Bellow
Technical data	
Leak rate – Valve body – Valve seat	< $1 \cdot 10^{-9}$ mbar ls <sup>-1</sup> < $1 \cdot 10^{-7}$ mbar ls <sup>-1</sup>
Pressure range	1 ⋅ 10 <sup>-8</sup> mbar to 1.2 bar (abs)
Differential pressure on the gate	≤ 1.2 bar
Conductance (molecular flow)	5 000 ls <sup>-1</sup>
Max. differential pressure at opening in closing and opening direction with influence to the cycle life	v seat side A
<ul> <li>Higher pressure on seat side A, the differential pressure acts in opening direction</li> </ul>	≤ 1.0 bar with full cycle life
<ul> <li>Higher pressure on counter seat side B, the differential pressure acts in closing direction</li> </ul>	≤ 30mbar with full cycle life
<ul> <li>Higher pressure on counter seat side B, the differential pressure acts in closing direction</li> </ul>	$\leq$ 1.0 bar with reduced cycle life
Cycles until first service	5 000 (unheated and under clean conditions)
Bellows cycles	100 000 (unheated and under clean conditions)
Bake-out temperature – Valve body – Actuator – Solenoid – Position indicator	≤ 150 °C (bake-out max. 24h) ≤ 100 °C ≤ 50 °C ≤ 60 °C

Created by: LOO	Release date: 19.01.2015	1/3
Modified by:	Release date:	783617EA



## Product data sheet HV gate valve, Series 091, DN 160 (ID 6'') Ordering No. 09144-CE44

Heating and cooling rate		50 °C h <sup>-1</sup>
Material – Valve body – Bonnet – Gate – Parts (in contact with media) – Bellows		AISI 304 (1.4301) EN AW-5083 (3.3547) AISI 304 (1.4301), (1.4308) A2 Ni-Teflon coated, PEEK AISI 633, (AM350)
Seal – Bonnet – Gate – Actuator		FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> ) FKM (Viton <sup>®</sup> )
Mounting position		any
Volume of pneumatic actuator		0.53 I / 0.017 ft <sup>3</sup>
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 101 psi
Compressed air connection		G1/8" (NPT for USA)
Actuation time	– closing – opening	< 3.0 s < 3.0 s
Behavior in case of compressed air pressure drop	– Valve closed – Valve open – During actuation	Valve remains closed (≥ 24h) undefined undefined
Behavior in case of power failure	<ul> <li>Valve closed</li> <li>Valve open</li> <li>During actuation</li> </ul>	valve remains closed valve closes valve closes

Weight

approx. 16,5 kg / 36.3 lbs

Created by: LOO	Release date: 19.01.2015	2/3
Modified by:	Release date:	783617EA



### Product data sheet HV gate valve, Series 091, DN 160 (ID 6'') Ordering No. 09144-CE44

#### **Electrical connections**

#### Solenoid valve

**Position indicator** 

Type Voltage

Туре

Voltage

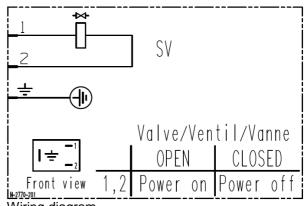
Current max.

4/2 way Defined by order

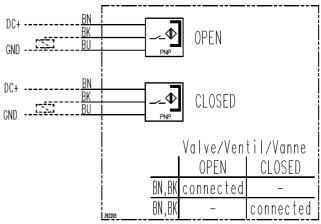
PNP (NO with LED)

10..30 V DC

 $\leq 0.2 \text{ A}$ 



Wiring diagram



Wiring diagram

Created by: LOO	Release date: 19.01.2015	3/3
Modified by:	Release date:	783617EA