Product data sheet

HV gate valve, Series 110, DN 160 (ID 6'')
Ordering No. 11044-PE44

Description

Flange	ISO-F 160
Actuator	Pneumatic, double acting
	– with solenoid valve
	– with position indicator
Feedthrough	Bellows

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
	– Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		$1 \cdot 10^{-8}$ mbar to 1.6 bar (abs)
Differential pressure on the gate		≤ 1.6 bar
Differential pressure at opening		≤ 30 mbar
Conductance (molecular flow)		5880 ls^{-1}
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve body	≤ 150 °C
(Maximum values: depending	– Actuator	≤ 80 °C
on operating conditions and	– Solenoid valve	≤ 50 °C
sealing materials)	– Position indicator	≤ 50 °C
Heating and cooling rate		50 °C h^{-1}
Material (main components)	– Valve body	AISI 304 (1.4301)
	– Mechanism	AISI 316L (1.4404)
	– Bellows	AISI 633 (AM350)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®), vulcanized
	– Actuator	FKM (Viton®), NBR
Mounting position		any
Volume of pneumatic actuator		0.15 l / 0.0053 ft^3
Compressed air min. – max. overpressure		4 – 7 bar / 58 – 102 psi
Compressed air connection		G⅛'' (⅛'' NPT for USA)
Actuation time	– Closing	2.5 s
	– Opening	2.5 s

Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	undefined
Behavior in case of power failure	– Valve closed	valve remains closed
	– Valve open	valve closes

Electrical connections
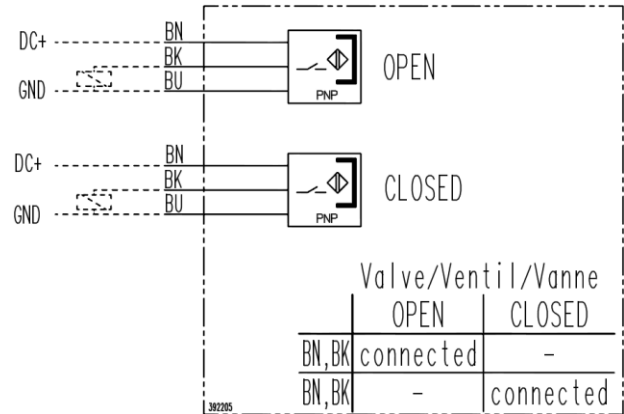
Solenoid valve

| Type | 4/2 way |
| Voltage | Defined by order |
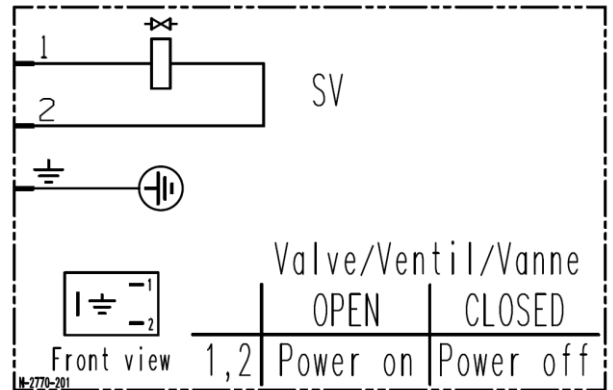
Wiring diagram

Position indicator

Type	PNP NO with LED
Voltage	10 – 30 V DC
Current max.	200 mA
Power max.	10 W
Cable length	1800 mm / 70.9 inch

Wiring diagram