

Description

Flange		ISO-K 160
Actuator		Pneumatic, single acting with closing spring – with solenoid valve – with position indicator
Feedthrough		Shaft feedthrough
Technical data		
Leak rate (static)	– Valve body – Valve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹ < 1 · 10 ⁻⁹ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-7}$ mbar to 2 bar (abs)
Differential pressure on the plate	 In opening direction In closing direction 	≤ 1.2 bar ≤ 2 bar
Differential pressure at opening		\leq 1 bar [1 bar with reduced number of cycles]
Conductance (molecular flow)		1000 ls ⁻¹
Actuation time	 Closing Opening 	≤ 1.5 sec. ≤ 1.5 sec.
Cycles until first service (Tmax 80°C, under clean conditions		1 million
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Solenoid valve Position indicator 	≤ 150 °C ≤ 120 °C ≤ 50 °C ≤ 80 °C
Material	 Valve body Actuator Plate Shaft feedthrough Spring Snap ring for axle 	Aluminum (EN AC-42000) Aluminum Aluminum (EN AW 6082) Aluminum (EN AW 6082) AISI 301 (1.4310) AISI 301 (1.4310)
Seal	 Bonnet O-ring Plate O-ring Feedthrough O-ring Actuator O-ring 	FKM (Viton®) FKM (Viton®) FKM (Viton®) FKM (Viton®)
Weight		16 kg / 35 lbs
Mounting position		any
Volume of pneumatic actuator		0.65 I / 0.023 ft ³
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 102 psi
Compressed air connection		G1/6" female
Behavior in case of compressed air pressure drop	 Valve closed Valve opened During actuation 	Valve remains closed and leaktight Valve closes leaktight Valve closes leaktight

Created by: LIN	Release date: 18.02.2015	1/2
Modified by:	Release date:	600102EC



Product data sheet

Vacuum angle valve Series 244, DN 160 (ID 6'') Ordering No. 24444-QA41-0001

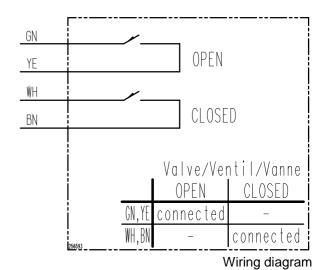
Behavior in case of power failure

- Valve closed
- Valve openedDuring actuation
- Valve remains closed and leaktight Valve closes leaktight Valve closes leaktight

Electrical connection

Position indicator

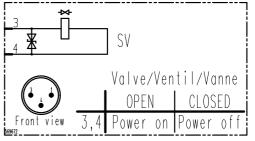
- Type Voltage Current Short circuit protected Connection Cable length Wire cross section
- Micro switch $\leq 50 \text{ V AC / DC}$ 5...100 mA No cable, 4 wire 500 mm 0.25 mm²



Solenoid valve

Type Voltage Connection type Additional feature

3/2 way See label on solenoid plug, male M8x1 LED orange; overvoltage protection; adjustable emergency operation; silencer



Wiring diagram

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