

Product data sheet UHV angle valve, Series 284, DN 160 Ordering No. 28444-QE21-CVK1

Description		
Flange		ISO-K 160
Actuator		Pneumatic, single acting with closing spring – without solenoid valve – with position indicator
Feedthrough		Bellows
Options	CVK =	 Product: valve type ITER 22 Actuator: seal material EPDM Gate: seal material EPDM Position indicator: double; Glenair 4 pin connector; 120°C Compressed air connection: female 1/8" ISO/NPT
Technical data ¹		
Leak rate	– Valve body – Valve seat	≤ 1 · 10 ⁻⁸ mbar ls ⁻¹ < 1 · 10 ⁻⁸ mbar ls ⁻¹
Leak rate (accidental condition)	– Valve body – Valve seat	≤ 1 · 10 ⁻⁸ mbar ls ⁻¹ n/a
Pressure range		1 · 10 ⁻⁸ mbar to 1.5 bar (abs)
Differential pressure on the plate ²	 In opening direction In closing direction 	≤ 1.2 bar ≤ 1.5 bar
Differential pressure at opening		≤ 1 bar
Conductance (molecular flow)		1000 ls ⁻¹
Closing time		≤ 1.5 sec.
Cycles until first service (Tmax 80 °C, under clean conditions)		10 000
Temperature (Maximum values: depending on operating conditions and sealing materials)	 Valve body Actuator Position indicator 	≤ 150 °C ≤ 120 °C ≤ 120 °C
Material	 Valve body Actuator Plate Bellows 	AISI 316L (1.4404) Aluminum AISI 316L (1.4404) AISI 316L (1.4404), AISI 316 Ti (1.4571)
Seal	– Bonnet – Plate – Actuator	metal EPDM EPDM
Weight		14 kg / 31 lbs
Mounting position		any
Radiation resistance		10 ⁶ Gy (10 ⁸ rad)
Maximum magnetic field levels		≤ 150 mT

 1 Values according technical specification D_R8752R v.1.1 2 Deviation to technical specification D_R8752R v.1.1 in agreement with responsible IO department

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Volume of pneumatic actuator		0.65l / 0.023 ft ³
Compressed air min. – max. overpressure		4.5 – 7 bar / 65 – 102 psi
Compressed air connection		1/8" female ISO/NPT
Behavior in case of compressed air pressure drop	– Valve closed – Valve open – During actuation	valve remains closed and leaktight valve closes leaktight valve closes leaktight
Behavior in case of power failure	– Valve closed – Valve open – During actuation	depending on customer installation depending on customer installation depending on customer installation
Assembly cleanliness level		ISO Class 8

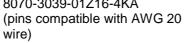
Related documents

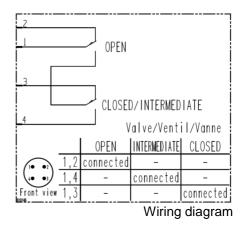
Dimensional drawing No.	956292
STEP file No.	956291

Electrical connections

Position indicator (2x)

Туре	Micro switch
Voltage	\leq 50 V AC / DC
Current	5 – 100 mA
Short circuit protected	No
Connector on the valve:	8070-2530-02Z16-4GA
Mating connector:*	8070-3039-01Z16-4KA (pins compatible with AW





*The mating connector is not part of the valve and needs to be ordered separately at Glenair.

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