

Product data sheet UHV angle valve, Series 284, DN 160 Ordering No. 28444-GE21-CVK1

Description		
Flange		CF-R 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	$\leq 1 \cdot 10^{-8}$ mbar ls ⁻¹ < 1 · 10 ⁻⁸ mbar ls ⁻¹
Leak rate (accidental condition)	– Valve body – Valve seat	$\leq 1 \cdot 10^{-8}$ 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

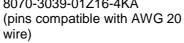
Related documents

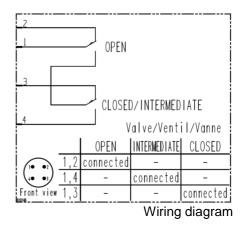
Dimensional drawing No.	956290
STEP file No.	956289

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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