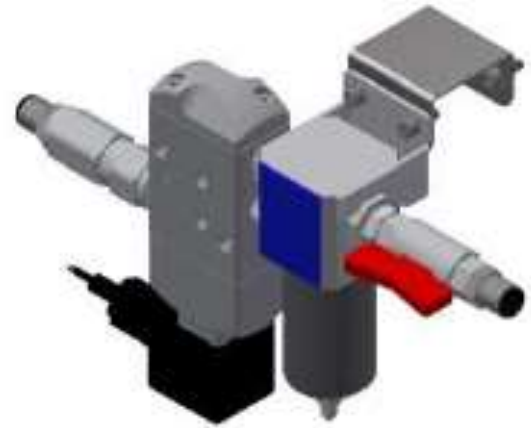


AIR PULSE CLEANING VALVE (APCV)

The Air Pulse Cleaning Valve (APCV) can be installed onto Fike's Dual-Flap Isolation valve or ValvEx™ valve to prevent the buildup of dust from the bottom interior of the valve and from the flap seals that may prevent the valve flap(s) from closing completely. The APCV ships separately and is field installed to the valve.

The APCV connects to a regulated air supply that is free of moisture and oil. The APCV has a filter and automatic condensate drain that automatically reduces hazardous levels of moisture and oil from accumulating.



ORDERING

PART NUMBER	DESCRIPTION
E30 – 0653 – 1	ValvEx Air Pulse Cleaning Valve, ATEX solenoid
E30 – 0653 – 2	ValvEx Air Pulse Cleaning Valve, CSA Solenoid
E30 – 0696 – 1	DFI Air Pulse Cleaning Valve, ATEX solenoid ⁽¹⁾
E30 – 0696 – 2	DFI Air Pulse Cleaning Valve, CSA solenoid ⁽¹⁾
E10-0235	Optional Field Junction Box ⁽²⁾

(1) Includes SST bracket to facilitate APCV mounting to the DFI valve flange stand

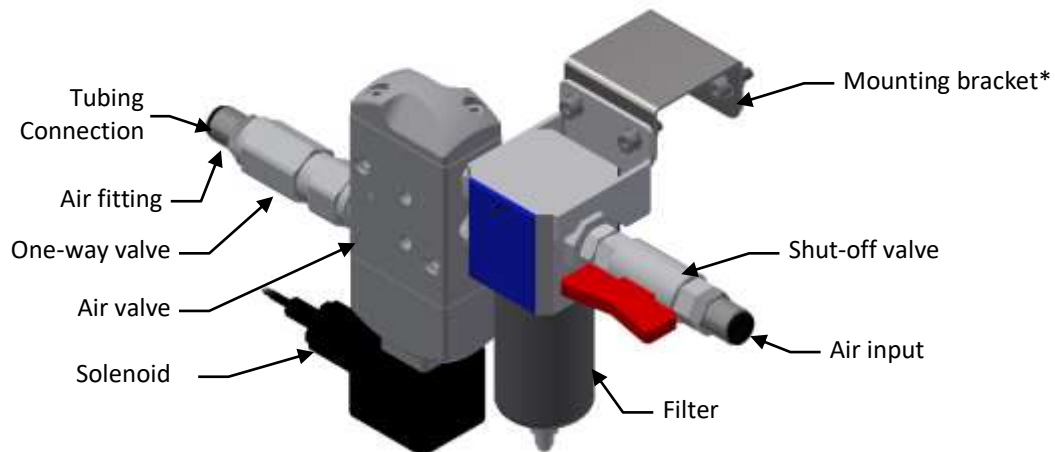
(2) IP66 rated, polyester resin Ex enclosure (Zones 1, 2, 21 and 22). Equipped with cable glands for cable entry and a pass-thru terminal connector.

INSTALLATION

The APCV mounts directly to the flange stand of the DFI valve using the attached mounting bracket and provided mounting hardware. Tubing is provided to facilitate the connection of the APCV to the DFI valves air pulse port(s). To prevent dust buildup within the valve body, the APCV must be continuously cycled on and off. The on and off cycling is controlled by a timing circuit connected to the APCVs 24 Vdc solenoid. The timing circuit can be provided either by a programmable logic controller (PLC), a timing circuit, or the Fike DFI interface module equipped with the APCV timer circuit – refer to data sheet X.1.104.01. The timing circuit must be adjustable for on/off timing to allow field adjustments to account for sticky materials or materials prone to build up.

SPECIFICATIONS

GENERAL		
NET WEIGHT	4.84 kg (10.67 lbs)	
AIR SUPPLY	Regulated air supply that is free of moisture and oil per ISO 8573-1-2010, category 3.2.3	
SOLENOID	ATEX – IECEx	CSA – IECEx
WATTAGE	2W	3W
VOLTAGE	24 Vdc	
AMBIENT TEMPERATURE (OPERATING)	-25°C to 60°C (-13°F to 140°F)	-15°C to 60°C (5°F to 140°F)
DE-ENERGIZED STATE	Normally closed	
PROTECTION	IP 65	NEMA 7 & 9
WIRING	Flying leads, 3m (118 in) long Blue (ground) Yellow / green stripe (Protected Earth) Red (Signal +24 VDC to open)	
AIR FILTER		
MICRON	40 µm	
DRAIN TYPE	Semi-auto	
PRESSURE RANGE	0.15 to 0.9 MPa (20 – 130 psi)	
PROOF PRESSURE	1.5 MPa (215 psi)	
TEMPERATURE RANGE	-5°C to 60°C (23°F to 140°F)	
CAPACITY OF DRAIN BOWL	10CC	



*Bracket supplied with DFI APCV to facilitate mounting to the DFI valve flange stand.