

Technical Specification

'FS' Series Pulse Jet Valves



FS Series

Description

Very high performance diaphragm valve with flanged inlet port and slide seal outlet port for easy valve installation and removal. Available with integral pilot or as remotely piloted valve. Outlet at 90° to inlet.

Suitable for

Dust collector applications, in particular for reverse pulse jet filter cleaning including bag filters, cartridge filters, envelope filters, ceramic filters, and sintered metal fibre filters.

Construction

Body: Diecast aluminium or 316 stainless steel

Ferrule: 304 SS

Armature: 430FR SS

Seals: Nitrile or Viton (reinforced)

Spring: 304 SS

Screws: 302 SS

Outlet Slide Seal: EPDM or Viton

Diaphragm Seat: PA-6 (standard), Viton coated mild steel

Refer to Q Series Solenoid product data sheet for solenoid construction details.

Operation

Recommended

on time range: 50-500ms

Recommended time

between pulses: 1 minute or greater

Maintenance

Before conducting any maintenance activity on the system ensure that components are fully isolated from pressure and power supplies. Pressure and power should not be reapplied until the valve has been fully assembled.

Diaphragm and pilot inspection should be conducted annually.

Approvals

Integrally piloted valves meet the requirements of:

- C-Tick
- EMC (89/336/CE)

Installation

1. Prepare inlet flange and blowtube pipes* to suit valve specification. Avoid installing valves underneath the tank.
2. Ensure tank and pipes are free from dirt, rust or other particulate.
3. Ensure supply air is clean and dry.
4. Mount valves to inlet flange and blowtube to valves with all seals in place. Tighten flange bolts to 10Nm (7.4 ft-lbs) Ensure blowtube is pushed all the way into the valve outlet.
5. Tanks and pipes must be independently restrained from valve.
6. Make electrical connections to solenoid or connect RCA pilot port to pilot valve (RCA valves only).
7. Apply moderate pressure to system and check for installation leaks.
8. Fully pressurise system.
9. Test fire and listen for proper actuation and crisp pulse noise.

Valve is not a structural component. Do not rely on valve to retain tanks or pipe. Refer to Camlock product specification for installation details.

*Pipes must be to Schedule 40 outside diameter

Schedule 40 Size	OD mm	OD Inches
1"	33.4	1.315
1.5"	48.3	1.900

Weights

Size	Integral Pilot (CA) Kg (lbs)	Remote Pilot (RCA) Kg (lbs)
25	1.050 (2.31)	0.830 (1.82)
45	1.830 (4.03)	1.610 (3.55)

Maintenance Kits

Model	Nitrile	Viton	Includes
CAC/RCAC25FS Diaphragm kit	K2501	K2503	Diaphragm kits include main diaphragm and spring.
CAC/RCAC45FS Diaphragm kit	K4516	K4519	
CAC25FS Pilot kit	K0380	K0384	o-ring, armature assembly, armature spring, ferrule
CAC45FS (Pre 9/98 models) Pilot kit	K0381	K0382	o-ring, pilot shuttle, armature assembly, armature spring, ferrule
CAC45FS (Post 9/98) Pilot kit	K0390	K0391	o-ring, pilot shuttle, armature assembly, armature spring, ferrule
CAC/RCAC25FS outlet seal	G690127	G690127-2	Outlet seal
CAC/RCAC45FS outlet seal	G690864	G690103-2	Outlet seal
Camlock for 25FS & 6" round tank	K2514-2	---	Flange adaptor to mount FS valves to round tanks.
Camlock for 25FS & 8" round tank	K2536-2	---	
Camlock for 45FS & 6" round tank	K4524-2	---	Eliminates welding. Refer to Camlock product specification
Camlock for 45FS & 8" round tank	K4515-2	---	
Camlock for 45FS & 10" round tank	K4525-2	---	
Welded stub flange for 25FS	G690349		Flange adaptor ready for welding to tank.
Welded stub flange for 45FS	G690350		
Welded flat flange for 25FS	G690166		
Welded flat flange for 45FS	G690167		

CAC/RCAC45FS

