Excelon® Valves
P72F, P74F Smooth start/Exhaust valves

- Excelon® design allows in-line or modular installation
- Controls increase of downstream pressure on start up. Cylinders and other air operated devices are eased into normal operating positions, reducing the possibility of equipment damage and hazards to the user.
- Blocks inlet air and exhausts downstream air when pilot signal is removed or when the optional manual lockout slide is closed
- Optional manual slide can be padlocked in closed position
- Solenoid pilot or air pilot operation
- Designed for use in start-up and shutdown of equipment.



P72F P74F P74F-AD

Technical data

Fluid:
Compressed air, neutral gases
NOTE: Contact technical support for use with other media.

Maximum pressure solenoid operated:
Dependent on solenoid rating [must not exceed 150 psig (10 bar)]

Maximum pressure pilot operated:
150 psig (10 bar) max.

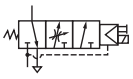
Minimum operating pressure:
44 psig (3 bar)

Operating temperature solenoid operated:
Dependent on solenoid rating [must be within range 0°* to 150°F (-20°* to 65°C)] (72)
[must be within range 0°* to 175°F (-20°* to 80°C)] (74)

Materials
Body: zinc alloy (72)
aluminum (74)
Elastomers: synthetic materials
Filter discs: sintered plastic
Internal components: brass/steel

Ordering information

Models listed include PTF threads. Solenoid operated models include 24 VDC coil and plug without indicator.

ISO Symbols	Port size	Solenoid operated*	lb (kg)
 Solenoid operated	1/4"	P72F-2AC-PFA	2.0 (0.91)
	3/8"	P74F-3AC-PFA	2.4 (1.08)
	1/2"	P74F-4AC-PFA	2.3 (1.05)
	3/4"	P74F-6AC-PFA	3.1 (1.41)

* Solenoid operated models are supplied with 22 mm 24 V d.c. 2 W coil and connector plug without indicator light. plugs. To select alternative voltages and other options refer to the Options selector below. For connector plugs see next page.

** Factory repair only

Options selector

P7★F-★★★-★★★

Series	Substitute
72	2
74	4
Port size	**Substitute**
1/4" (72)	2
3/8"	3
1/2" (74)	4
3/4" (74)	6
Threads	**Substitute**
PTF	A
ISO G parallel	G
Operator	**Substitute**
Air pilot option	A
22 mm miniature solenoid	C
22 mm miniature solenoid with manual lockout slide (74)	D

Connectors		Substitute
3 pin plug with cable gland, no indicator light		A
Without		N
Coil voltage	**Nominal power rating**	**Substitute**
24 V d.c.	2 W	F
110/120 V	4/2.5 VA, 50/60 Hz	A
No solenoid		N
Solenoid manual operator		**Substitute**
Shrouded push button		P
None		N

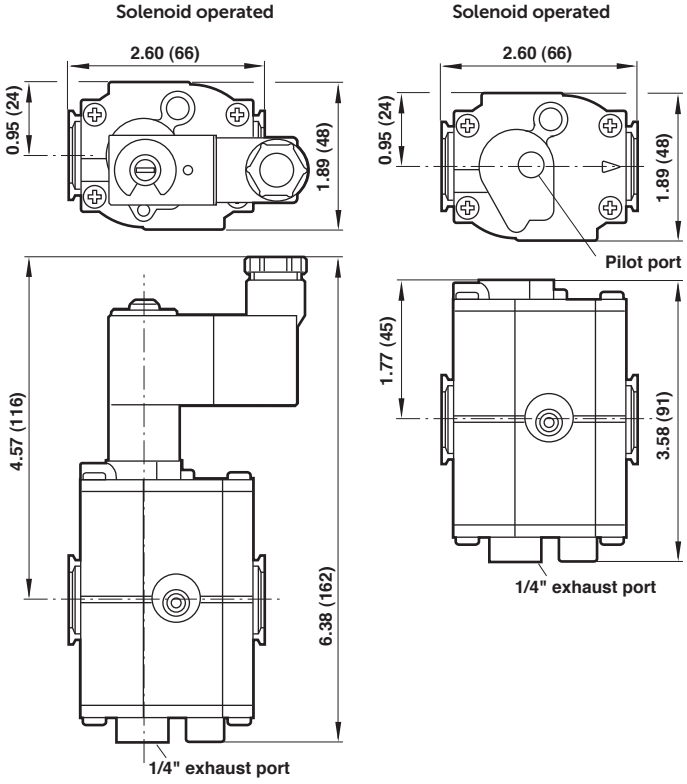
Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2017 - 9217c) © 2020 IMI International s.r.o.

Accessories

	Exhaust port silencer	Quikmount pipe adapters (quantity of 1)	Quikclamp® (quantity of 1)	Quikclamp® and wall bracket (quantity of 1)	Plug with cable gland for 22 mm solenoid		
					 Indicator type	 No Indicator	
P72F	MB002A	4215-02 (1/4)	4214-51	4214-52	54934-08*	12 ... 24 VAC/DC	Indicator type
		4215-03 (3/8)			54934-02	110/120 VAC	Indicator type
					54934-01		No indicator
P74F	MB004A	4315-02 (3/8)	4314-51	4314-52	54934-08*	12 ... 24 VAC/DC	Indicator type
		4215-03 (1/2)			54934-02	110/120 VAC	Indicator type
		4315-04 (3/4)			54934-01		No indicator

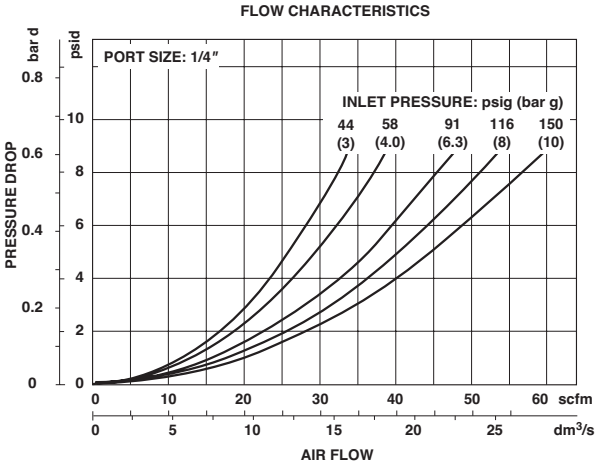
*Reduced light intensity at 12V.

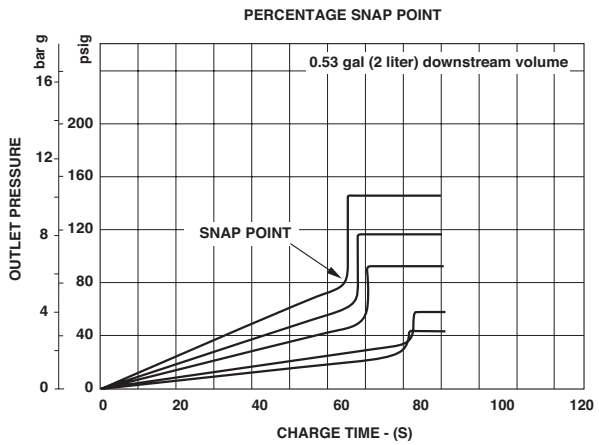
P72F



Dimensions in inches (mm)

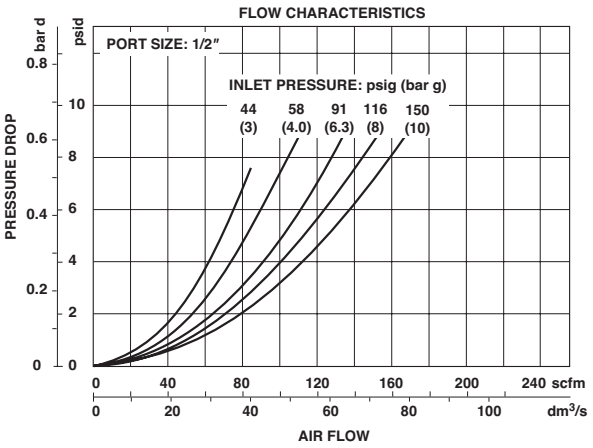
P72F Typical performance characteristics

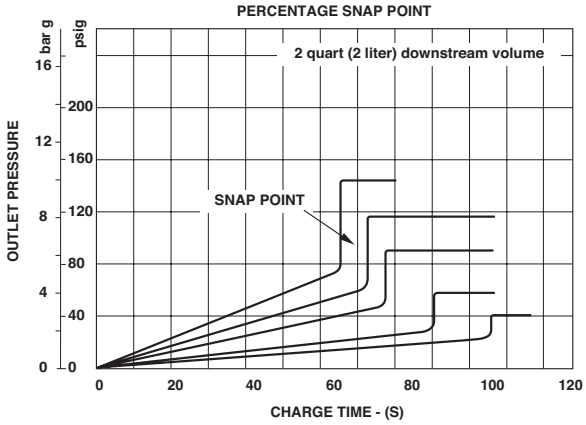




Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2017 - 9217c) © 2020 IMI International s.r.o.

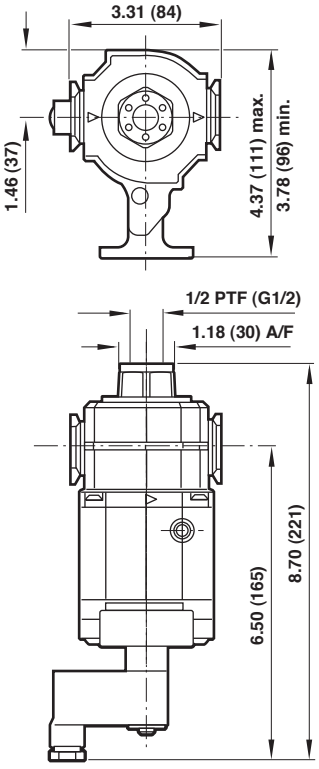
P74F Typical performance characteristics



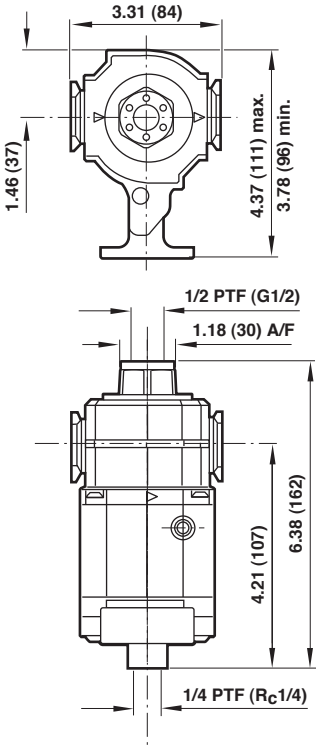


P74F

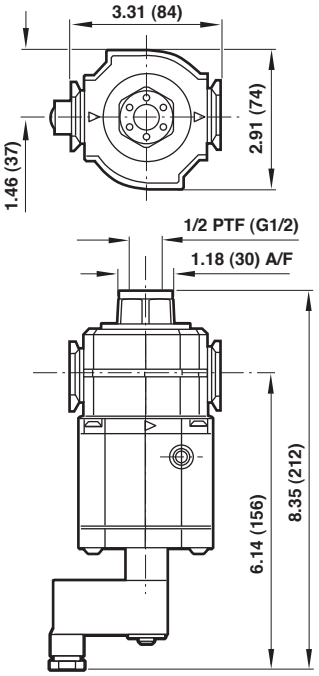
Solenoid operated plus manual shut-off with lockout



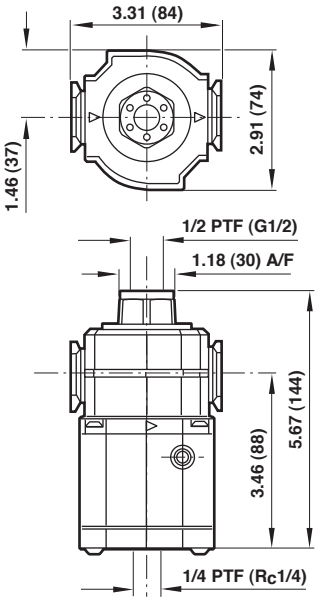
Air pilot operated plus manual shut-off with lockout



Solenoid operated



Air pilot operated



Dimensions in inches (mm)

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2017 - 9217c) © 2020 IMI International s.r.o.

Excelon® valves



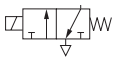
- Excelon® design allows in-line or modular installation
- 3 port/2 position valves, normally closed
- Modular installations with Excelon® 72, 73, and 74 series can be made to suit particular applications

P72C

Excelon® 72 Air or Solenoid Operated Directional Control Valves 1/4", 3/8" Port Sizes

Ordering information

Models listed are with PTF threads. Solenoid operated models include 24 VDC coil and plug without indicator.

ISO Symbols	Port Size	Solenoid Operated Model	Operating Pressure	Operating Temperature	Weight lb (kg)
 Solenoid operated	1/4"	P72C-2AC-PFA	Min. 15 psig (1 bar) Max 150 psig (10 bar)	0°F to 150°F (-20°C to 65°C)	2.11 (0.96)
	3/8"	P72C-3AC-PFA	Min. 15 psig (1 bar) Max 150 psig (10 bar)	0°F to 150°F (-20°C to 65°C)	2.05 (0.93)

Modular installation only



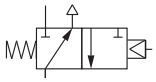
- 3-port/2-position valves available as normally closed valves.

P74 Air Operated

Excelon® 74 Air Operated Directional Control Valves Unthreaded Ports, 1/2" Basic Size

Order Information

Models listed include PTF threads in the pilot and exhaust ports.

ISO Symbols	Installation Type	3 Port/2 Position Normally Closed	Operating Pressure	Operating Temperature	Weight lb (kg)
 3-Port/2-Position Normally Closed	Modular*	P74C-NAA-NNN	Maximum pressure solenoid operated: Dependant on solenoid rating [must not exceed 250 spig (17 bar)] Maximum pressure pilot operated: Minimum operating pressure: 44 psig (3 bar)	-20°F to 175°F (-30°C to 80°C)	1.20 (0.54)

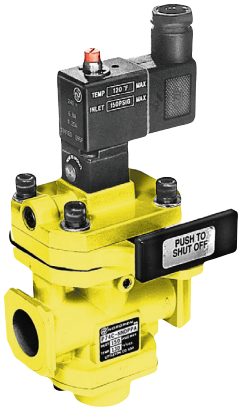
* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclamp® and Quikclamp® pipe adapters.

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2017 - 9217c) © 2020 IMI International s.r.o.

Modular installation only

– High-flow, 3-port/2-position, normally closed

– Manually operated lockout slide can be locked in the closed position with a customer supplied padlock.

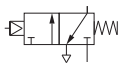


P74 Lockout Valve

Excelon® 74 Solenoid Operated Valve with Lockout Unthreaded Ports, 1/2" Basic Size

Order Information

Models listed include PTF exhaust port threads, non-locking override, and cable grip connector.

ISO Symbol	Installation Type	3 Port/2 Position Normally Closed	Coil	Operating Temperature	Weight lb (kg)
 3-Port/2-Position Normally Closed	Modular*	P74C-NAD-PJA	110/120 VAC	-20°F to 130°F (-30°C to 55°C)	2.03 (0.92)
	Modular	P74C-NAD-PPA	24 VDC	-20°F to 130°F (-30°C to 55°C)	2.03 (0.92)

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclamp® and Quikclamp® pipe adapters.

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2017 - 9217c) © 2020 IMI International s.r.o.