

P74F - EXCELON® Modular System **Soft Start/Dump Valves**

- > Port size: 3/8" ... 3/4" (ISO G/PTF)
- > Assists machine designers in complying with the European **Machineries Directive**
- > Excelon design allows in-line installation or modular installation with other Excelon products
- > Can help existing machinery to comply with PUWER (Provision and Use of Work **Equipment Regula**tions)
- > Controlled increase of downstream pressure onstart up
- > High forward flow capacity
- > High flow dump facility





Technical features

Medium:

Compressed air only

Operating pressure:

Solenoid actuated: 3 ... 10 bar (44 ... 145 psi) Pilot actuated:

3 ... 17 bar (44 ... 250 psi)

Snap pressure:

Full flow when downstream pressure reaches 50 - 80% of inletpressure

Charge time:

For 2 litre downstream volume and 6,3 bar (90 psi) inlet pressure 0.2 sec. minimum

110 sec. maximum

Port size:

G3/8, G1/2, G3/4, 3/8 PTF 1/2 PTF, 3/8 PTF

Pilot port:

Rc1/4 with ISO G main ports 1/4 PTF with PTF main ports

Exhaust port:

G1/2 with ISO G main ports 1/2 PTF with PTF main ports

Flow:

57 dm³/s Operating pressure: 6,3 bar (91 psi) Δp: 0,5 bar (7 psi) P1 » P2 = Cv 4,4; P2 » P3 = Cv 5,6

Standard compliances:

(Ex) I 2G Ex h IIC T6 Gb II 2D Ex h IIIC T85° Db

Ambient/Media temperature:

Solenoid actuated: -20° ... +50°C (-4° ... +122°F) Pilot actuated:

-20° ... +80°C (+4° ... +176°F) Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Body & intermediate body: Aluminium

Elastomers: Synthetic materials Filter discs: Sintered plastic Internal components: Brass/steel Top plate & exhaust bonnet: Zinc

Electrical details for solenoid operators

Voltage tolerance	± 10%
Rating	100% continuous duty
Inlet orifice	1,0 mm
Electrical connection	Industrial Standard, 22 mm
Solenoid coil mounting	Four positions x 90°
Protection class	IP 65 (with sealed plug)

Technical data - standard models

Symbol	Port size	Size	Actuation/ return	Voltage	Pilot port	Weight (kg)	Тур
W 1 3	G3/8	_	Solenoid/spring	24 V d.c.	-	1,08	P74F-3GC-PFA *1)
	G1/2	Basic	Solenoid/spring	24 V d.c.	-	1,05	P74F-4GC-PFA *1)
	G3/4	_	Solenoid/spring	24 V d.c.		1,41	P74F-6GC-PFA *1)
W 1 3	G3/8	_	Air/spring	-	M5	1,05	P74F-3GA-NNN
	G1/2	Basic	Air/spring	_	M5	1,02	P74F-4GA-NNN
	G3/4	_	Air/spring		M5	1,35	P74F-6GA-NNN

^{*1)} To select other solenoid type and coil voltage refer to option selector on page 2



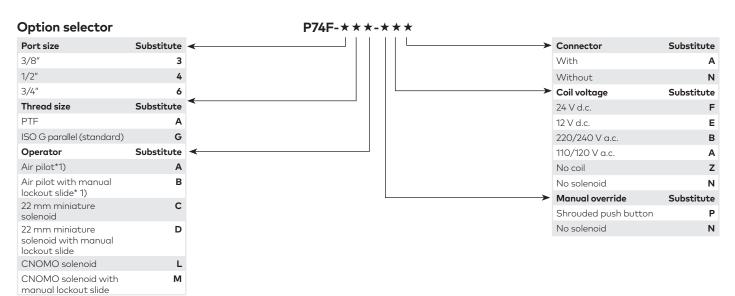


Voltage codes and spare coils

22 mm coil for connector interface acc. to industrial standard					
	Voltage	Power Inrush/Hold	Model	Code	
	12 V d.c.	2 W	QM/48/12J/21	12J	
	24 V d.c	2 W	QM/48/13J/21	13J	
	110/120 V 50/60 Hz	4/2,5 VA	QM/48/18J/21	18J	
	220/240 V 50/60 Hz	6/5,0 VA	QM/48/19J/21	19J	

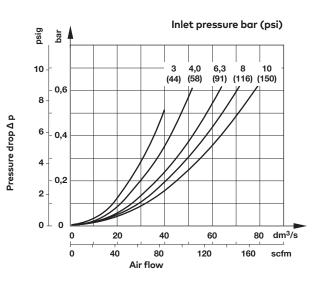
Connector plugs



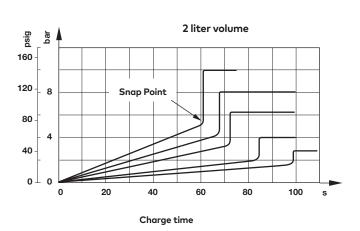


^{*1)}To order air pilot models also substitute 'NNN' at digits 8, 9 and 10 e.g. P74F-2GA-NNN.

Flow characteristics

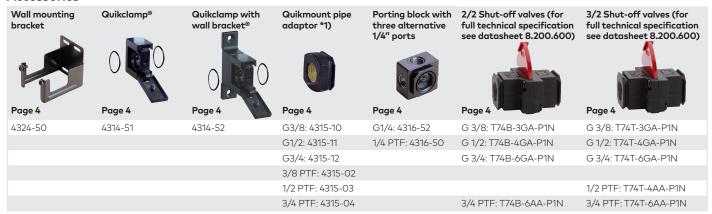


Charge time

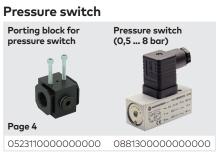




Accessories



^{*1)} Please use a Quikmount pipe adaptor if the Quikclamp be mounted at inlet or outlet side.







Drawings

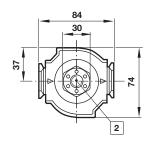
Dimensions in mm Projection/First angle



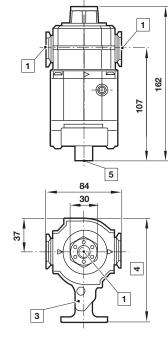


Air pilot actuated

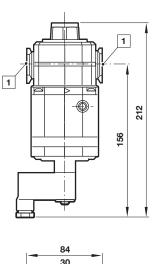
8 5

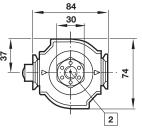


Air actuated plus manual lockput slide

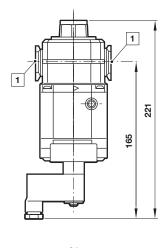


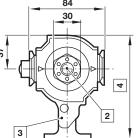
Solenoid actuated





Solenoid actuated plus manual lockput slide





- 1 Main ports 3/8", 1/2" or 3/4"
- 2 Pilot port
- 3 Manual lockout slide
- 4 Minimum 96 mm; maximum 111 mm
- **5** Exhaust port



Accessories

Quikclamp®

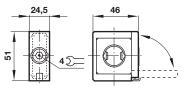
Quikclamp® with wall bracket

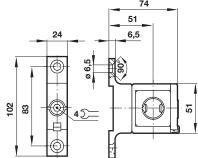
Porting block

Pipe adapter

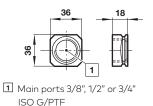






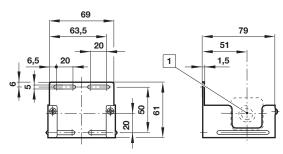


45 33 10



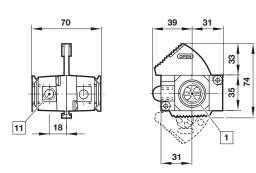
10 Ports 1/4" ISO G/PTF plugged

Wall mounting bracket



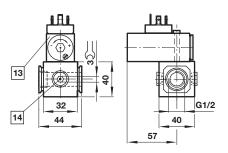
1 Main ports

Shut-off valves



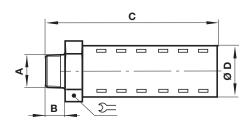
- 1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF
- 11 Exhaust port Rc1/8

Porting block for pressure switch



- 13 Pressure switch is not in scope of delivery
- Alternative G1/4 ports plugged

Silencer



Α	В	С	D	Σ=	Model
R1/2	17	92	32	32	MB004B
1/2 NPT	17	92	32	32	MB004A

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/**

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.