

- > Port size: 1/4" or 3/8" (ISO G/NPT)
- > 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 Regulations)**
- > Controlled increase of downstream pressure onstart up
- > High forward flow capacity
- > High flow dump facility



Technical features

Medium:

Compressed air only

Operating pressure:

17 bar (250 psi) pilot actuated 10 bar (145 psi) solenoid actuated

Minimum operating pressure:

3 bar (44 psi)

Snap pressure:

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

Port size:

G1/4, G3/8, 1/4" or 3/8" PTF

Air pilot port:

M5 with ISO G main ports 10-32 UNF with PTF main ports

Exhaust port:

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

Charge time:

For 2 litre downstream volume and 6,3 bar (90 psi) inlet pressure 0,8 sec. minimum 99 sec. maximum

Flow:

21 dm³/s at port size: G1/4 Operating pressure: 6,3 bar (91 psi) Δp: 0,5 bar (7 psi) P1 to P2 = Cv 1,59 P2 to P3 = Cv 1,72 Solenoid operated: -20 ... +65°C (+4 ... +149°F)

Maximum temperature for solenoid operated valves is depending on the solenoid rating, but must not exceed +65°C (+149°F) Pilot operated -20 ... +65°C (+4 ... +149°F) Air supply must be dry enough to avoid ice formation at

temperatures below +2°C (+35°F).

Materials:

Body: Zinc alloy Elastomers: Synthetic materials Internal components: Brass/steel

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 2	G1/4	Basic	Solenoid/spring	24 V d.c.	-	0,91	P72F-2GC-PFN *1)
	G3/8		Solenoid/spring	24 V d.c.	-	0,90	P72F-3GC-PFN*1)
+							
1 3							
	G1/4	Basic	Air/spring	-	M5	0,88	P72F-2GA-NNN
	G3/8		Air/spring	_	M5	0,87	P72F-3GA-NNN

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

Voltage codes and spare coils

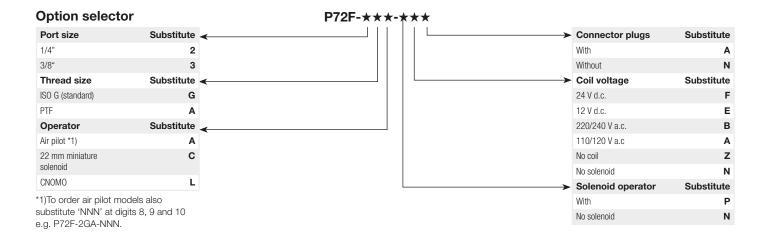
22 mm coil for connector interface acc. to industrial standard						
	Voltage	Power Inrush/Hold	Model	Code		
San and an	12 V d.c.	2 W	QM/48/12J/21	12J		
	24 V d.c	2 W	QM/48/13J/21	13J		
	110/120 V 50/60 Hz	4/2,5 VA	QM/48/18J/21	18J		
	220/240 V 50/60 Hz	6/5,0 VA	QM/48/19J/21	19J		

Connector plugs





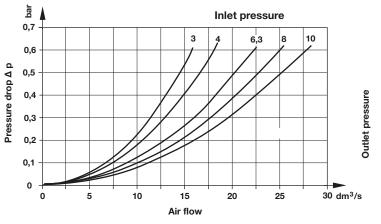


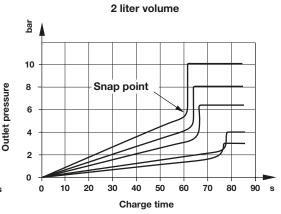


Flow characteristics

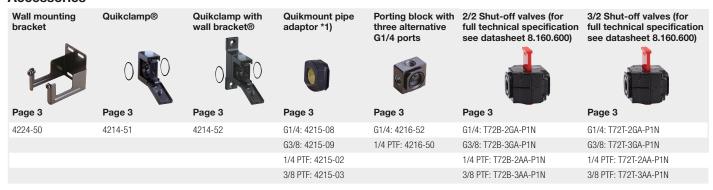
Port size: G1/4

Charge time





Accessories

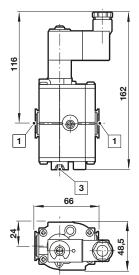




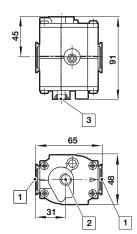




Drawings Solenoid actuated



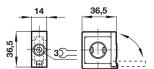
Air pilot actuated



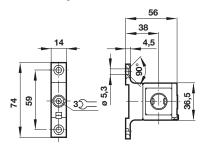
Accessories Quikclamp®

Dimensions in mm Projection/First angle





Quikclamp® with wall bracket



Shut-off valves

Pipe adapter

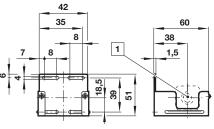
- 1 Main ports 1/4" or 3/8"
- 2 Pilot port
- 3 Exhaust port

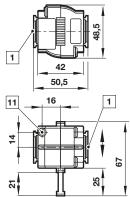
Porting block

1 Main ports 1/4" or 3/8"

ISO G/PTF

Wall mounting bracket



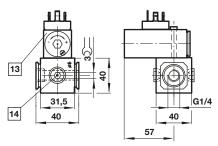


1 Main ports 1/4" or 3/8" ISO G/PTF Exhaust port M5 at 3/2 valve only

28,5 10 Ports (G1/4 or 1/4 NPT) plugged

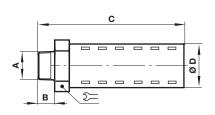
1 Main ports

Porting block for pressure switch



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

Silencer



Α	В	С	D	$\Sigma =$	Model
R1/4	17	92	32	32	MB002B
1/4 NPT	17	92	32	32	MB002A

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/data«.

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 IMI Precision Engineering, Norgren Inc.

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.