

P74A, P74B, P74C - EXCELON® Modular System; Air or solenoid actuated directional control valves

- > Port size: Unthreaded Ports, 1/2" basic size
- Excelon design allows in-line installation or modular installation with other Excelon products
- Solenoid or air pilot actuated
- Customised poppets for long service life
- > High flow spring return



Technical features

Medium:

Compressed air only **Operating pressure:**

3 ... 10 bar (44 ... 145 psi) solenoid actuated

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

Port size: Unthreaded

Pilot port:

G1/4 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 factor:

Flow direction:

2/2 NC: A » B 2/2 NO: A » B 3/2: B » A Ambient/Media temperature:

Solenoid operated:
Depending on solenoid rating
-20° ... +50°C (+4° ... +122°F)
Pilot operated
-20° ... +80°C (+4° ... +176°F)
Version with gauge:
-20° ... +65°C (+4 ... +149°F)
Air supply must be dry enough
to avoid ice formation at

temperatures below $+2^{\circ}$ C (+35°F).

Materials:

Body: Zinc

Elastomers: Synthetic materials Internal components: Aluminium

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 *1)	Size	Actuation/ return	Operating pressure (bar)	Pilot pressure (bar)	Voltage	Gewicht (kg)	Drawing No.	Model
12 (B) 2 10 ->-	1/2"	Basic	Air pilot/Spring	3 17	3 17	_	0,54	1	P74A-NGA-NNN
1 ^l (A)	1/2"	Basic	Air pilot/Spring	317	317	_	0,54	1	P74B-NGA-NNN
-D1(A)			1 1 3						
12 (A) ₁ 2 10	1/2"	Basic	Air pilot/Spring	3 17	3 17	_	0,54	2	P74C-NGA-NNN
(B) 1 3									
12 (B) ₁ 2 10	1/2"	Basic	Solenoid/Spring	3 10	-	24 V d.c.	0,74	3	P74A-NNC-PFA*2)
1 (A)									
12 (A) ₁ 2 10	1/2"	Basic	Solenoid/Spring	3 10	-	24 V d.c.	0,74	4	P74C-NGC-PFA*2)
(B) 1 3									

^{*1)} Unthreaded

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





Option selector P74★-N★★-★★ Substitute **Function** Connector Substitute 2/2 NC With Α Α 2/2 NO В Without N 3/2 NC C Voltage Watts Substitute Exhaust port only Substitute 24 V d.c. 2 W F PTF Α 12 V d.c. 2 W Е G 220/240 V ISO G parallel (standard) 6/5,0 VA В a.c. Operator Substitute 110/120 V 4/2,5 VA Α Air pilot *1) a.c. 22 mm miniature solenoid С No coil z *1) To order air pilot models also No solenoid Ν substitute 'NNN' at digits 8, 9 and Manual Substitute 10 e.g. P74A-NGA-NNN. override Push only, Р spring return

Voltage codes and spare coils

22 mm coil for connector interface acc. to industrial standard							
	Voltage	Power Inrush/Hold	Model	Code			
Samuel Street	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			

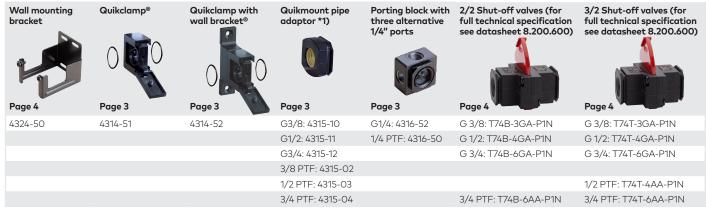
Connector plugs

Without

Ν



Accessories



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

Pressure switch



^{*1)} Pressure switch is not in scope of delivery



Service kits





Drawings

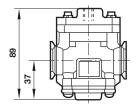


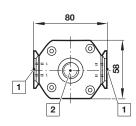


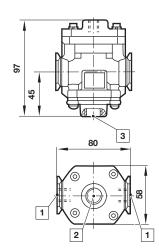
Dimensions in mm Projection/First angle





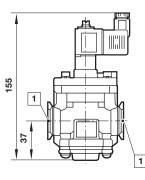


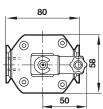


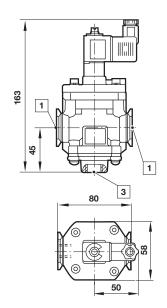






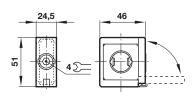




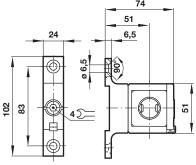


- 1 Unthreaded main port 1/2"
- 2 Pilot port 1/4"
- 3 Exhaust port 1/2"

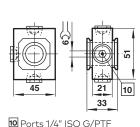
Accessories Quikclamp®



Quikclamp® with wall bracket

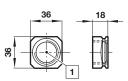


Porting block



10 Ports 1/4" ISO G/PTF plugged

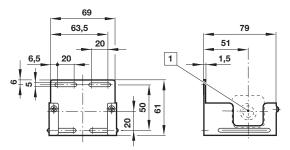
Pipe adapter



1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF

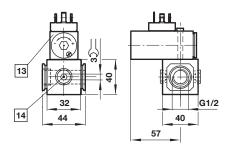


Wall mounting bracket



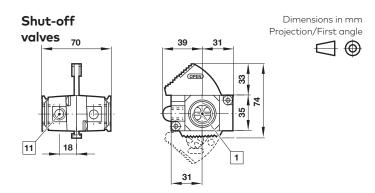
1 Main ports

Porting block for pressure switch



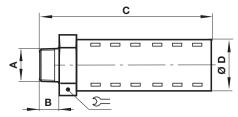
13 Pressure switch is not in scope of delivery

14 Alternative G1/4 ports plugged



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

Silencer



Α	В	С	D	$\mathfrak{D}\!\!=\!$	Model
R1/2	17	92	32	32	MB004B
1/2 NPT	17	92	32	32	MR004A

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 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.