

Industrial **Automation**

IMI Norgren

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

Exhaust port:

Flow factor:

3/2 IN » OUT

Flow direction:

2/2 NC: A » B

2/2 NO: A » B

3/2 OUT » EXHAUST

B » A

2/2

3/2.

G1/2 with ISO G main ports

1/2 PTF with PTF main ports

Cv = 4.0

Cv = 3,2

Cv = 5.3

- 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

Unthreaded

Pilot port:

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
$12 (B)^{2} 10$ $- \bigcirc - \boxed{1}^{+} \qquad \qquad$	1/2*	Basic	Air pilot/Spring	3 17	3 17	-	0,54	1	P74A-NGA-NNN
$ \begin{array}{c} 1'(A) \\ 12 (B)_{1}2 10 \\ - \bigcirc - \begin{bmatrix} + & + \\ + & + \end{bmatrix} \\ \end{array} $	1/2*	Basic	Air pilot/Spring	3 17	3 17	-	0,54	1	P74B-NGA-NNN
$ \begin{array}{c} 12 \\ (A) \\ 12 \\ (A) \\ 12 \\ (A) \\ 12 \\ (A) \\ (A$	1/2*	Basic	Air pilot/Spring	3 17	3 17	-	0,54	2	P74C-NGA-NNN
-D- <u> </u> (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)
	1/2*	Basic	Solenoid/Spring	3 10		24 V d.c.	0,74	4	P74C-NGC-PFA *2)
12 (A) 2 10 (B) 1 3	1/2	DasiC	solenoid/spring	5 10	_	24 v u.c.	0,74	4	P74C-NGC-PFA "2)

*1) Unthreaded

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

Port size:

G1/4 with ISO G main ports 1/4 PTF with PTF main ports

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°C (+35°F).

Materials:

Body: Zinc Elastomers: Synthetic materials Internal components: Aluminium



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

Without



065786800000000

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





3/4 PTF: T74T-6AA-P1N

А

Ν

F

Е

В

А

Ζ

Ν

Ρ

Ν

Service kits





Drawings









2





80

6

50





Accessories Quikclamp®



Quikclamp® with wall bracket



Porting block



10 Ports 1/4" ISO G/PTF plugged

Pipe adapter







Wall mounting bracket



1 Main ports

Porting block for pressure switch



13Pressure switch is not in scope of delivery14Alternative G1/4 ports plugged

Shut-off valves





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

Silencer



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.

Projection/First angle 31



Dimensions in mm