



EXCELON® 74 Solenoid Operated Directional Control Valves Unthreaded Ports, 1/2" Basic Size

- Modular installation only
- High-flow, spring return valves
- 2-port/2-position valves available as normally closed or normally open valves
- 3-port/2-position valves available only as normally closed valves.
- Cushioned poppets for long life



Technical Data

Fluid: Filtered and lubricated compressed air

Main valve inlet pressure range: 2 to 10 bar (30 to 150 psig)

Temperature range*: -30° to +55°C (-20° to +130°F)

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+25°F)

Average flow factor (Cv) of 2-port valves: 4,0 Average flow factor (Cv) of 3-port valves:

In-out ports: 3,2 Out-exhaust ports: 5,3

Response times of 3 port/2 position valve (elapsed time from solenoid energized to an increase in the main valve pressure): Standard operator: 11 ms at 6,3 bar (90 psig) inlet pressure Low wattage operator: 13,5 ms at 6,3 bar (90 psig) inlet

pressure

Exhaust port on 3-port/2-position valves: 1/2 PTF, ISO G, or ISO Rc

Solenoid operator specifications:

Voltage and power requirements:

Voltage	Standard Coil	Low Watt Coil
6Vdc	_	2W
12Vdc	7,5W	2W
24Vdc	7,5W	3,5W
24V 50/60Hz	7,5W	3,5W
110/120V 50/60Hz	7,5W	3,5W
220/240V 50/60Hz	7,5W	_

Duty: Continuous at 90% to 110% of rated voltage. Coil Type: Molded with three pin plug-in connector.

Enclosure Classification: NEMA 1, NEMA 4 and IP 65.

Connector Plug: Cable grip for cables 6 to 8 mm (1/4" to 5/16") diameter. Electrical connectors conform to *Industry Standard Form B for Three-Pin Electrical Plug Connectors*, 11 mm spacing.

Override: Manual, locking or non-locking

Materials:

Body: Zinc

Pistons, poppets: Aluminum

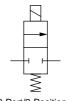
Elastomers: Nitrile

Operator housing: PPS plastic Operator base: Aluminum Plunger, spring: Stainless steel

Ordering Information

See *Ordering Information* on the following pages.

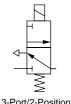
ISO Symbols



2-Port/2-Position Normally Closed



2-Port/2-Position Normally Open



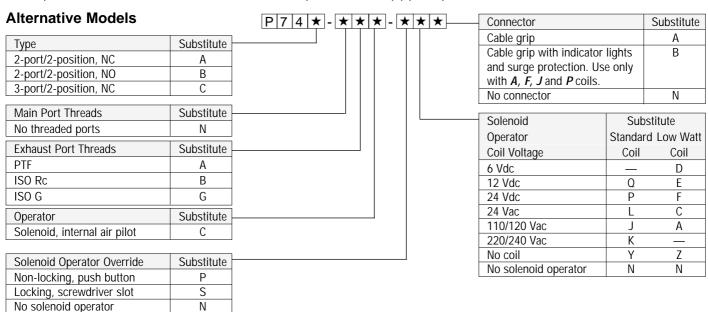
Normally Closed



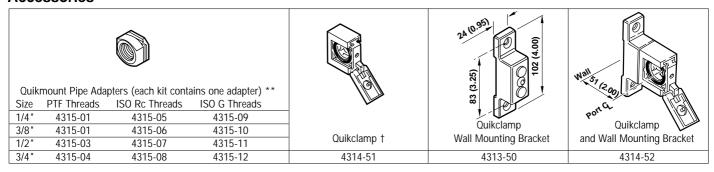
Ordering Information. Models listed include ISO G exhaust port threads, non-locking override,110/120Vac standard coil,

Installation Type	2 Port/2 Position	2 Port/2 Position	3 Port/2 Position	Weight kg (lb)
	Normally Closed	Normally Open	Normally Closed	
Modular*	P74A-NGC-PJA	P74B-NGC-PJA	P74C-NGC-PJA	0,74 (1.63)

^{*} Valve ports are unthreaded. To install in air line use Quikclamp™ and Quikclamp pipe adapters or connect to other Excelon 74 units.

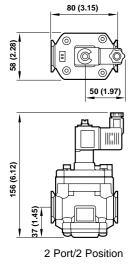


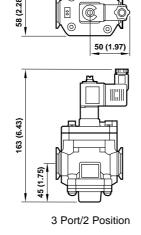
Accessories



^{**} Each pipe adapter adds 18 mm (0.71") to the overall length of a valve.

Dimensions mm (inches)





80 (3.15)

Service Kit

Item	Туре	Part Number
Service kit	Seal & Gasket	53474-37
Quikclamp service kit	2 o-rings	4384-770

Service kit includes all o-rings, head gasket and seals.

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 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.

Water vapor will pass through these units and will condense into liquid if air temperature drops in the downstream system. Install an air dryer if water condensation could have a detrimental effect on the application.

[†] Each Quikclamp adds 13,6 mm (0.54") to the overall length of a valve.