

EXCELON®72 Soft Start/Dump Valve 1/4", 3/8" Port Sizes

- EXCELON design allows in-line or modular installation
- Controlled increase of downstream pressure on start up
- Solenoid or air pilot operated
- High forward flow capacity
- High flow dump facility
- Modular installations with EXCELON 72, 73, and 74 series can be made to suit particular applications

Soft start valves allow a controlled increase of pressure onto downstream cylinders/machines offering protection to personnel and equipment.

The dump feature can be activated by removing power to the solenoid or the air pilot.

Note: Turn on system air supply prior to applying pilot signal to operator. Failure to do so may cause valve to continuously exhaust.

Technical Data

Fluid: Compressed air

Maximum pressure solenoid operated:

Dependant on solenoid rating

[must not exceed 17 bar (250 psig)]

Maximum pressure pilot operated: 17 bar (250 psig) max.

Minimum operating pressure: 3 bar (44 psig)

Operating temperature solenoid operated:

Dependant on solenoid rating

[must be within range -20°C* to +65°C (0°F* to +150°F)]

Operating temperature pilot operated:

-20°C* to +65°C (0°F* to +150°F)

* Consult our technical service for use below +2°C

Air Pilot Port:

10-32 UNF with PTF main ports

M5 with ISO main ports

Exhaust Port:

1/4" PTF with PTF main ports

1/4" ISO Rc with ISO Rc main ports

1/4" ISO Rc with ISO G main ports

Maximum flow with 6,3 bar (90 psig) inlet pressure and pressure drop of 0.5 bar (7 psig):

21 dm³/s (45 scfm) [P₁ to P₂ = Cv 1,59] [P₂ to P₃ = Cv 1,72]

Snap pressure:

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

Charge time:

For 2 litre (0.53 gallon US) downstream volume and 6,3 bar (90 psig) inlet pressure

Minimum 0,8 sec.

Typical maximum 99 sec.



Materials:

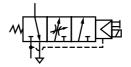
Body: Zinc alloy

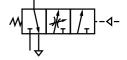
Elastomers: Synthetic materials Filter discs: Sintered plastic Internal components: Brass/steel

Ordering Information

See *Ordering Information* on the following pages.

ISO Symbols



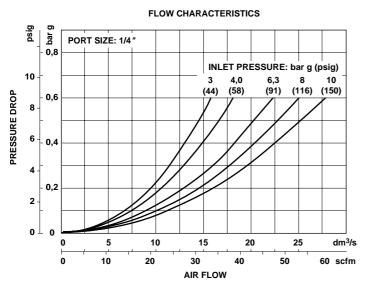


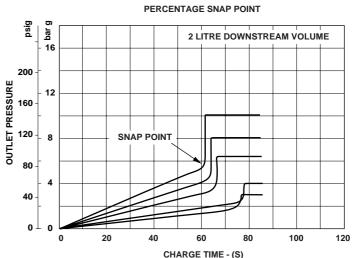
Solenoid operated

Air pilot



Typical Performance Characteristics

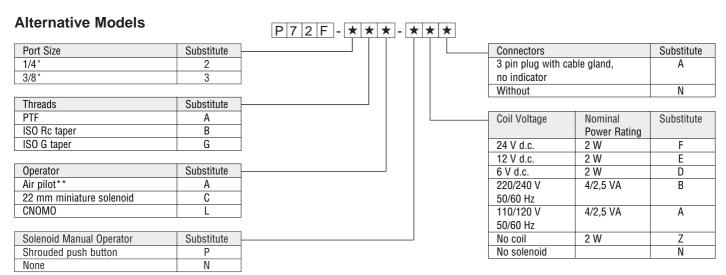




Ordering Information. Models listed are with ISO G threads. Solenoid operated models include 24 V d.c. coil and plug without indicator.

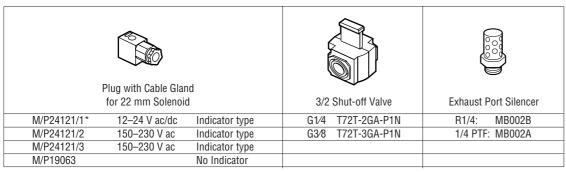
| Port Size | Solenoid Operated* | Weight kg (lb) | Air Pilot Operated | Weight kg (lb) |
|-----------|--------------------|----------------|--------------------|----------------|
| | Model | | Model | |
| G1/4 | P72F-2GC-PFA | 0,91 (2.00) | P72F-2GA-NNN | 0,88 (1.93) |
| G3/8 | P72F-3GC-PFA | 0,90 (1.98) | P72F-3GA-NNN | 0,87 (1.91) |

^{*} To select other solenoid type and coil voltage refer to alternative models table below.



^{**} to order air pilot models also substitute 'NNN' at digits 8, 9 and 10 e.g. P72F-2GA-**NNN**.

Accessories



^{*} Reduced light intensity at 12 V.



Dimensions mm (inches)

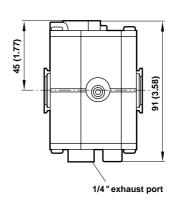


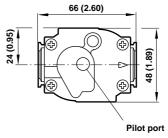
116 (4.57)

66 (2.60)

1/4" exhaust port

Air pilot operated





Service Kits

| Item | Type | Part number |
|-------------|------------|-------------|
| Service kit | All models | 4384-520 |

Service kit includes all seals, valve assembly and tamper resistant plug.



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

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.