

# Industrial Automation

**IMI Norgren** 

# P84F 3/2 Soft Start/Dump Valve Excelon® Plus Modular System

- Port size:3/8" ... 3/4" (ISO G/PTF)
- Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- High forward flow capacity
- Fast Exhausting
- Variable Snap Adjustment

- Solenoid and air pilot options
- For use as components in safety-related systems according to DIN EN ISO13849 up to a Performance Level (PL) c Cat. 1 Safety function: Safe Venting.



## **Technical features**

Medium:

Compressed air only

Maximum supply pressure:

10 bar (145 psi)

Minimum operating pressure:

3 bar (43 psi)

Port size: G3/8, G1/2, G3/4, 3/8 PTF, 1/2 PTF, 3/4 PTF Flow:

51 dm<sup>3</sup>/s at port size 1/2" Full flow P1 to P2 at 6,3 bar (91 psi) inlet, with 0,5 bar (7 psi) pressure

drop

 $P2 \text{ to } P3 = 65 \text{ dm}^3/\text{s}.$ 

Ambient/Media temperature:

-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: Aluminium End Caps: Aluminum Body covers: ABS Elastomers: NBR Valve: Brass Air Pilot: Aluminium

# **Technical data P84F**

Symbol	Port Size	Actuation/return	Voltage	Exhaust Port	Weight (kg)	Model
10 12 12 W	G3/8	Solenoid/spring	24 V d.c.	G1/2	1,0	P84F-3GT-PFN
	G1/2	Solenoid/spring	24 V d.c.	G1/2	1,0	P84F-4GT-PFN
	G3/4	Solenoid/spring	24 V d.c.	G1/2	1,0	P84F-6GT-PFN
10   2   12   12   13   13   14   15   15   15   15   15   15   15	G3/8	Air/spring	N/A	G1/2	1,0	P84F-3GA-NNN
	G1/2	Air/spring	N/A	G1/2	1,0	P84F-4GA-NNN
	G3/4	Air/spring	N/A	G1/2	1,0	P84F-6GA-NNN

# Electrical details for solenoid operators

Voltage tolerance: -10%/+15%

Rating: 100% continuous duty

Inlet orifice: 0,8mm

Electrical 15mm DIN EN 175301-803 (DIN

connection: 43650) Form C

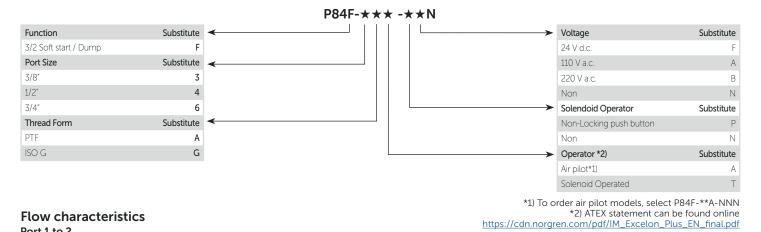
Manual override: Shrouded push button, spring return

Protection class: IP65

Materials: PP5 (body), NBR (seals)

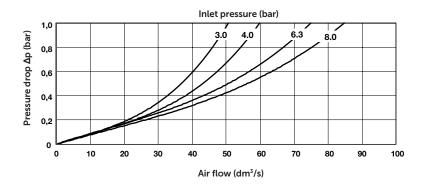


# Option selector

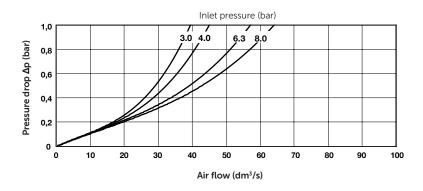


# Flow characteristics

Port 1 to 2 Port size: 1/2"

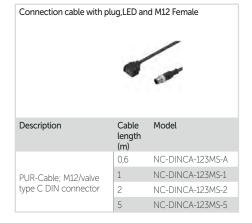


# Port 1 to 2 Port size: 3/8"



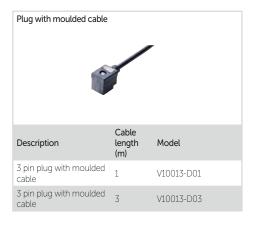


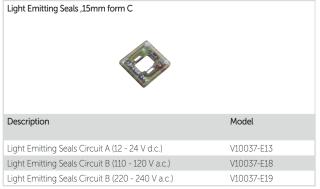
#### **Accessories**





Plug with cable gland and indicator















## **Accessories**















\*1) To connect new Excelon® Plus to old Excelon® 74/73 units. Having the same hole centres as 74 series mounting bracket. A Quikclamp adds 13.6 mm to the overall width of a combination unit





















- \*1) Flanged version. For other pressure ranges, please see data sheet 5.11.001
- \*2) For other pressure ranges, please see data sheet 5.11.385
- \*3) Q84G stand alone electronic pressure sensor module see <a href="http://s.norgren.com/digital-gauge-iodd">http://s.norgren.com/digital-gauge-iodd</a> for data-sheet 8.900.905.

# Voltage rating and spare coils

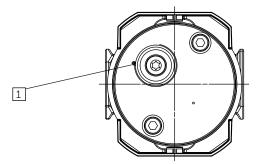
	Voltage	Power	Replacement
C C Transfer on the Control of the C	24 V d.c.	1,2 W	840650-50KIT
photosis land	110 V a.c.	1,5 VA	840650-51KIT
CC Statement to a service of the ser	220 V a.c.	1,5 VA	840650-52KIT



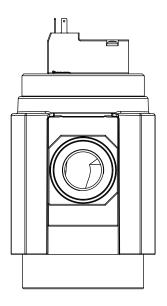
# **Dimensions**

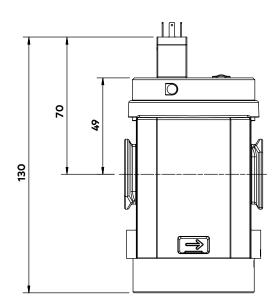
Dimensions in mm Projection/First angle

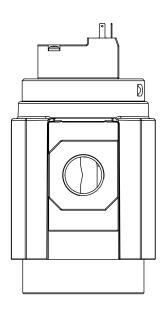


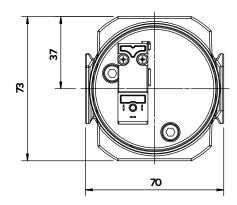


 $\boxed{1}$  1/2" exhaust port (NPT or ISO G)









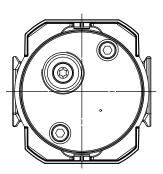


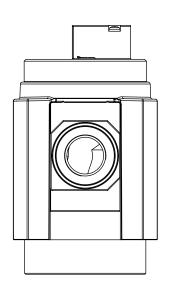
# **Dimensions Air Pilot Operator**

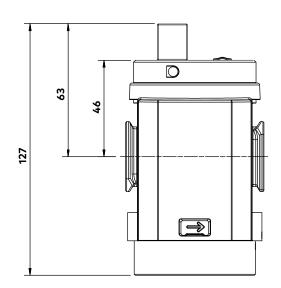
Dimensions in mm Projection/First angle

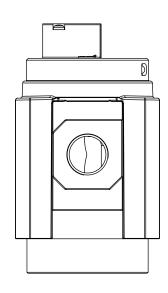


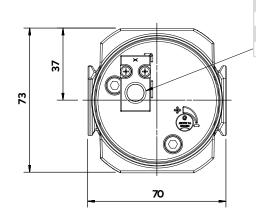










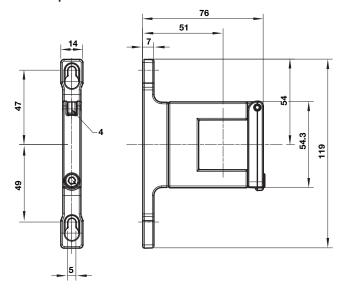


Pilot port details						
Main ports	Pilot ports					
ISO G	1/8-28 ISO G Per SP-062					
PTF	1/8-27 PTF Per SP-015					



# **Accessories**

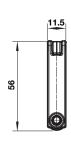
# Quikclamp with wall bracket

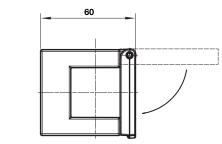


# Quikclamp

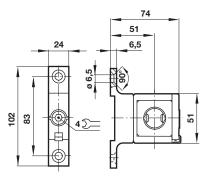




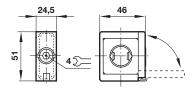




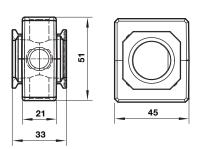
# Hybrid-Quikclamp with wall bracket



Hybrid-Quikclamp



# Pressure sensing block





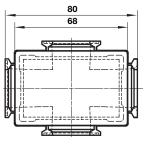
# Full flow porting block horizontal

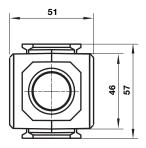
# Full flow porting block vertical

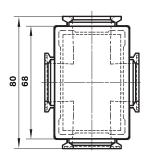
Dimensions in mm Projection/First angle

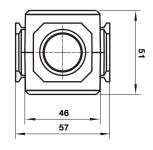






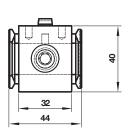


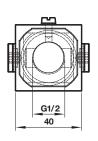


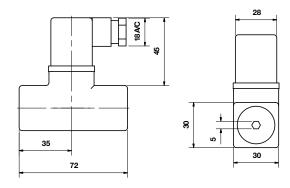


Porting block for 18D pressure switch

**18D Pressure switch** 

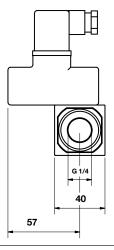


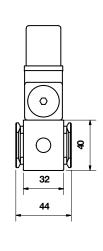


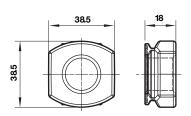


18D Porting block and 18D assembled

Pipe adaptor

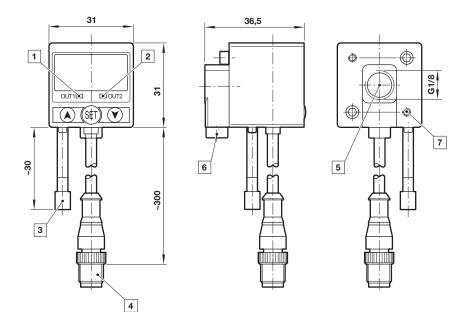






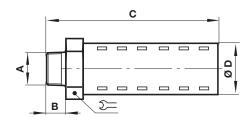


# 51D Pressure switch - digital



- 1 Switch OUT 1, green LED
- 2 Switch OUT 2, red LED
- 3 Dustproof protector
- 4 Connector M12 x 1
- 5 Inlet port
- 6 Alternative inlet port G1/8 plugged
- 7 Thread for mounting screw

## Silencer



Α	В	С	D	5=	Model
R1/2	17	92	32	32	MB004B
1/2 NPT	17	92	32	32	MB004A

# 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 Ltd.

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.