

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 dm³/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 to P3 = 65 dm³/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 2 12	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 12 12 W 13	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

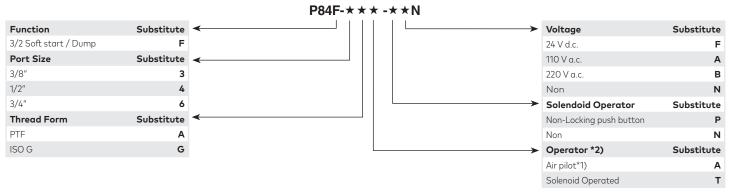
Electrical details for solenoid operators

Voltage tolerance:	-10%/+15%
Rating:	100% continuous duty
Inlet orifice:	0,8mm
Electrical connection:	15mm DIN EN 175301-803 (DIN 43650) Form C
Manual override:	Shrouded push button, spring return
Protection class:	IP65
Materials:	PP5 (body), NBR (seals)



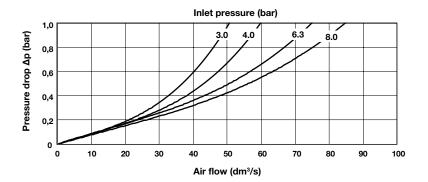


Option selector

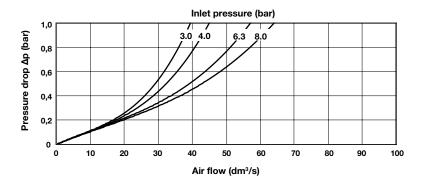


^{*1)} To order air pilot models, select P84F-**A-NNN

Flow characteristics Port 1 to 2 Port size: 1/2"



Port 1 to 2 Port size: 3/8"



^{*2)} ATEX statement can be found online https://cdn.norgren.com/pdf/IM_Excelon_Plus_EN_final.pdf



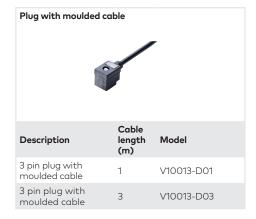
Accessories

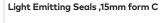


Description	Cable length (m)	Model
	0,6	NC-DINCA-123MS-A
PUR-Cable; M12/valve	1	NC-DINCA-123MS-1
type C DIN connector	2	NC-DINCA-123MS-2
	5	NC-DINCA-123MS-5



Voltage	Cable length (m)	Model
12 - 24 V a.c. / d.c	1	V10014-D01
12 - 24 V a.c. / d.c	3	V10014-D03
110 V a.c. / d.c.	1	V10015-D01
110 V a.c. / d.c.	3	V10015-D03
220 V a.c. / d.c	1	V10016-D01
220 V a.c. / d.c	3	V10016-D03







Description	Model
Light Emitting Seals Circuit A (12 - 24 V d.c.)	V10037-E13
Light Emitting Seals Circuit B (110 - 120 V a.c.)	V10037-E18
Light Emitting Seals Circuit B (220 - 240 V a.c.)	V10037-E19

Plug with cable gland and indicator



Description	Model
Plug with cable gland and indicator 12-24 V a.c. / d.c., c/w LED / VDR	V10012-D13
Plug with cable gland and indicator 110 V a.c. / d.c., c/w LED / VDR	V10012-D18
Plug with cable gland and indicator 220 V a.c. / d.c., c/w LED / VDR	V10012-D19

M12 Adaptor Rear - MSUP Valve Plug Form C 8MM



V13981-E01

M12 Adaptor Top - MSUP Valve Plug Form C 8MM



V13980-E01

Plug with cable gland



V10027-D00



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 http://s.norgren.com/digital-gauge-iodd for data-sheet 8.900.905.

Voltage rating and spare coils

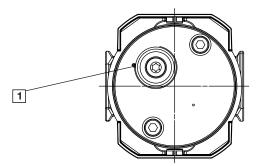
	Voltage	Power	Replacement
CC (Columbia do presenta per Columbia de C	24 V d.c.	1,2 W	840650-50KIT
CC INSTITUTION TO THE STATE OF	110 V a.c.	1,5 VA	840650-51KIT
CC ENTIT HAVE STANKED TO SEE STANKED	220 V a.c.	1,5 VA	840650-52KIT



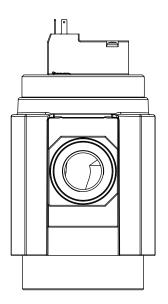
Dimensions

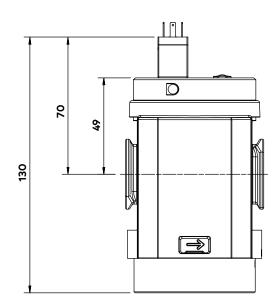
Dimensions in mm Projection/First angle

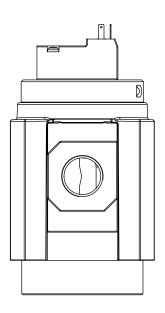


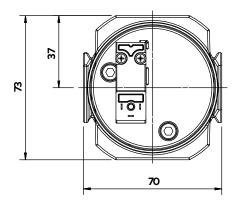


1 1/2" exhaust port (NPT or ISO G)









10/22

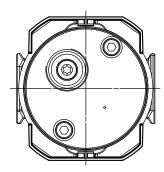


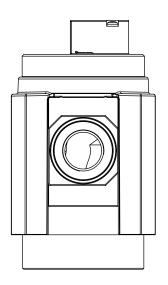
Dimensions Air Pilot Operator

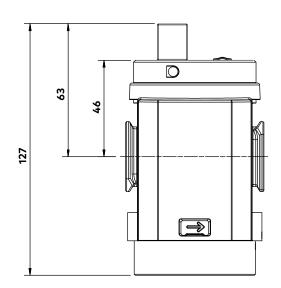
Dimensions in mm Projection/First angle

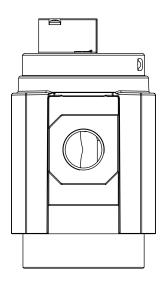


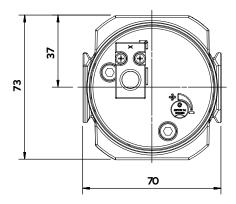








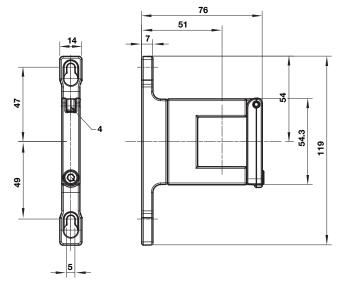






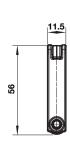
Accessories

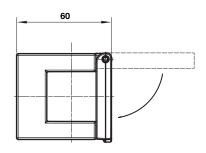
Quikclamp® with wall bracket



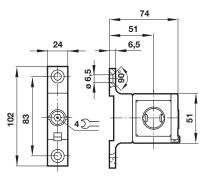
Quikclamp°



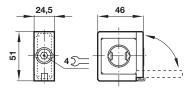




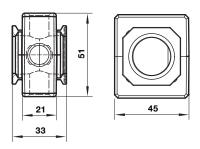
Hybrid-Quikclamp° with wall bracket



Hybrid-Quikclamp[®]



Pressure sensing block





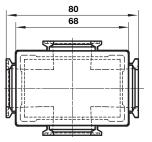
Full flow porting block horizontal

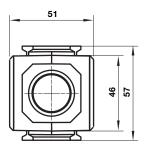
Full flow porting block vertical

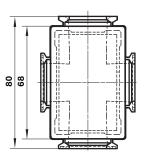
Dimensions in mm Projection/First angle

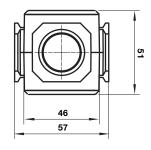




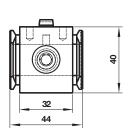


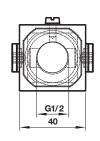




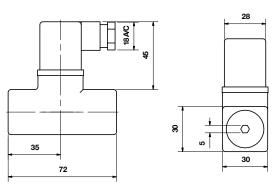


Porting block for 18D pressure switch

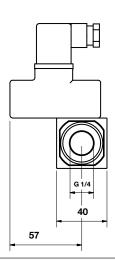


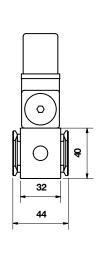


18D Pressure switch

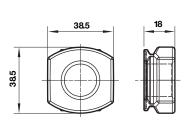


18D Porting block and 18D assembled



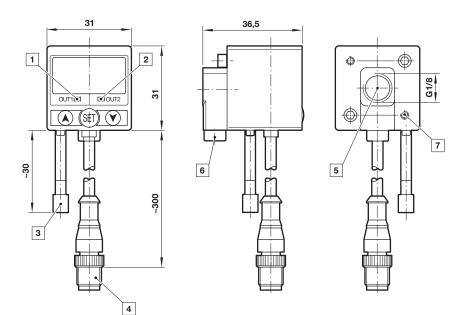


Pipe adaptor



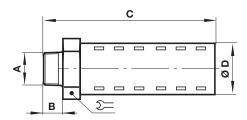


51D Pressure switch - digital



- 1 Switch OUT 1, green LED
- 2 Switch OUT 2, red LED
- 3 Dustproof protector
- 4 Connector M12 x 1
- 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	MROO4A

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 Co. 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.