

# Industrial Automation

**IMI Norgren** 

# P82F 3/2 Soft Start/Dump Valve Excelon<sup>®</sup> Plus Modular System

- Port size: 1/4" ... 3/8" (ISO G/PTF)
- Excelon<sup>®</sup> Plus design allows in-line installation or modular installation with other Excelon<sup>®</sup> 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.
- Ex DoC in accordance with 2014/34/EU/ATEX



#### **Technical features**

Medium: Compressed air only

Maximum supply pressure: 10 bar (145 psi)

Minimum operating pressure: 3 bar (43 psi)

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

Flow: 21 dm<sup>3</sup>/s at port size 1/4" Full flow P1 to P2 at 6,3 bar (91 psi) inlet, with 0,5 bar (7 psi) pressure drop P2 to P3 at 18 dm<sup>3</sup>/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 P82F**

Symbol	Port Size	Actuating/return	Voltage	Exhaust Port	Weight (kg)	Model
	G1/4	Solenoid/spring	24 V d.c.	G1/4	0,45	P82F-2GT-PFN
	G3/8	Solenoid/spring	24 V d.c.	G1/4	0,45	P82F-3GT-PFN
$ \underset{T_{1}}{\overset{10}{\underset{T_{1}}{\overset{1}{\underset{T_{1}}{t_{T_{1}}{t_{T_{T_{1}}}{t_{T_{T_{T$	G1/4	Air/spring	N/A	G1/4	0,45	P82F-2GA-NNN
	G3/8	Air/spring	N/A	G1/4	0,45	P82F-3GA-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**



### **Flow characteristics**









# Accessories





1

3

1

3

V10015-D01

V10015-D03

V10016-D01

V10016-D03

Plug with moulded cable							
Description	Cable length (m)	Model					
3 pin plug with moulded cable	1	V10013-D01					
3 pin plug with moulded cable	3	V10013-D03					



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





V13980-E01

MSUP Valve Plug with cable gland

110 V a.c. / d.c.

110 V a.c. / d.c.

220 V a.c. / d.c

220 V a.c. / d.c



#### Accessories



820014-51KIT





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Pressure sensing block

1/4 PTF

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820016-50KIT

0881300 \*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

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#### Silencer





MB002B

### Voltage rating and spare coils

Pressure sensing block

G1/4

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820016-51KIT







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Quikclamp

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820014-52KIT

with bracket assembled



#### Dimensions

Dimensions in mm Projection/First angle





1/4" exhaust port (NPT or ISO G)











# Dimensions Air Pilot Operator

Dimensions in mm Projection/First angle





1/4" exhaust port (NPT or ISO G)











### Accessories

Quikclamp with wall bracket



# Quikclamp

Dimensions in mm Projection/First angle







### Pressure sensing block





## Full flow porting block







# Porting block for 18D pressure switch

**18D** Pressure switch

Dimensions in mm Projection/First angle









18D Porting block and 18D assembled





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Silencer





### 51D Pressure switch - digital

Dimensions in mm Projection/First angle







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G1/8

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#### 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.