

P82C 3/2 Control Valve

Excelon® Plus Modular System



- > Port size: 1/4" ... 3/8" (ISO G/PTF)
- > Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- > High forward flow capacity
- > Fast Exhausting
- > 3 port/2 position valve, normally closed



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:

20 dm³/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 = 20 dm³/s

Ambient/Media temperature:

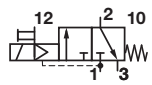
-20 ... +65°C (-4 ... +149°F)

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

Technical data P82C

Symbol	Port Size	Function	Voltage	Exhaust Port	Weight (kg)	Model
	G1/4	3/2 Control	24 V d.c.	1/4	0,43	P82C-2GT-PFN
	G3/8	3/2 Control	24 V d.c.	1/4	0,43	P82C-3GT-PFN

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 43 50) Table C
Manual override:	Shrouded push button, spring return
Protection class:	IP65
Materials:	PP5 (body), NBR (seals)

Option selector

P82C-★ ★T-P★N

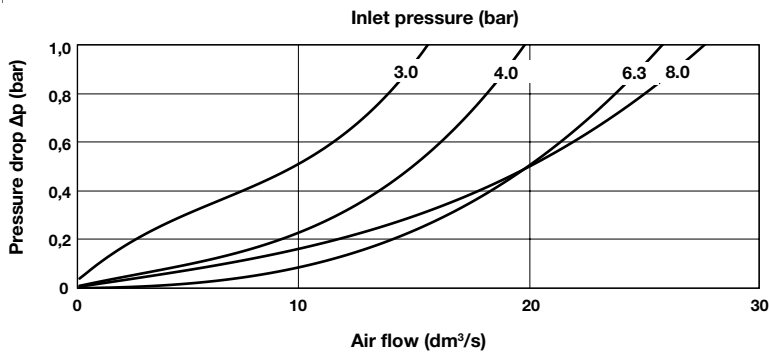
Function	Substitute
3/2 Control Valve	C
Port Size	Substitute
1/4"	2
3/8"	3
Thread Form	Substitute
PTF	A
ISO G	G

Voltage	Substitute
24 V d.c.	F
110 V a.c.	A
220 V a.c.	B

Flow characteristics

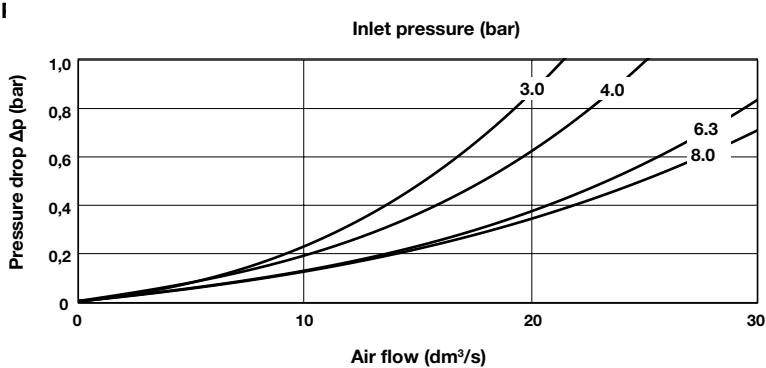
Port 1 to 2

Port size: 1/4"



Port 1 to 2

Port size: 3/8"



Accessories

Connection cable with plug, LED and M12 Female



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

Plug with with moulded cable and indicator



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

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

Light Emitting Seals ,15mm form C



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 Top - MSUP Valve Plug Form C 8MM



7000-42831-0000000

M12 Adaptor Rear - MSUP Valve Plug Form C 8MM












7000-42811-0000000

Plug with cable gland



V10027-D00

Accessories



<p>Quikclamp®</p>  <p>Page 5 820014-51KIT</p>	<p>Quikclamp® with bracket assembled</p>  <p>Page 5 820014-52KIT</p>	<p>Pressure sensing block 1/4 PTF</p>  <p>Page 5 820016-50KIT</p>	<p>Pressure sensing block G1/4</p>  <p>Page 5 820016-51KIT</p>
<p>Full flow porting block 3/8" PTF</p>  <p>Page 5 820028-50KIT</p>	<p>Full flow porting block G3/8</p>  <p>Page 5 820028-53KIT</p>		
<p>Pressure switch interface block (18D pressure switch)</p>  <p>Page 6 0523109000000000</p>	<p>Pneumatic pressure switch 18D (0,5 ... 8 bar) *1)</p>  <p>Page 6 0881300</p>	<p>Digital pressure switch 51D (-1 ... 10 bar) *2)</p>  <p>Page 6 0860810</p>	

*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

<p>Port Adaptors 1/4 PTF</p>  <p>Page 6 820015-02KIT</p>	<p>Port Adaptors 3/8 PTF</p>  <p>Page 6 820015-03KIT</p>	<p>Port Adaptors G1/4</p>  <p>Page 6 820015-08KIT</p>	<p>Port Adaptors G3/8</p>  <p>Page 6 820015-09KIT</p>
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Silencer

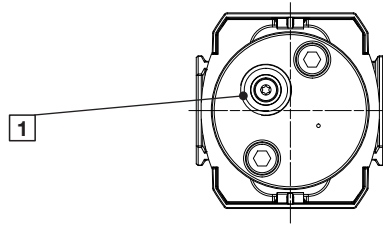
<p>Heavy duty muffler, 1/4" NPT male thread, brass wire element</p>  <p>MB002A</p>	<p>Heavy duty muffler, R1/4 male thread, brass wire element</p>  <p>MB002B</p>
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Voltage rating and spare coils

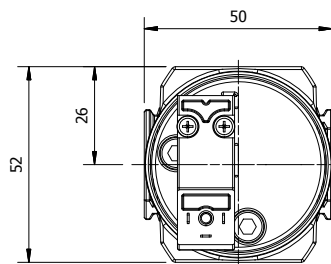
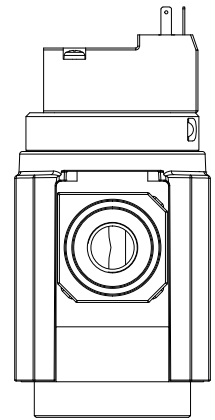
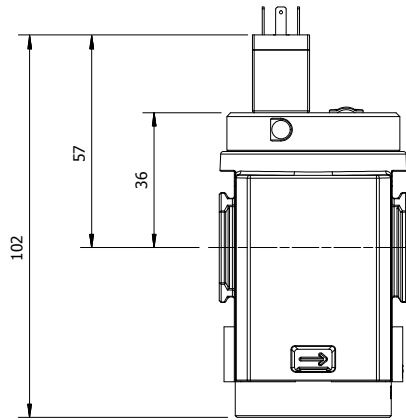
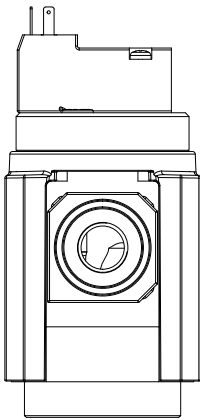
	Voltage	Power	Replacement
	24 V d.c.	1,2 W	840650-50KIT
	110 V a.c.	1,5 VA	840650-51KIT
	220 V a.c.	1,5 VA	840650-52KIT

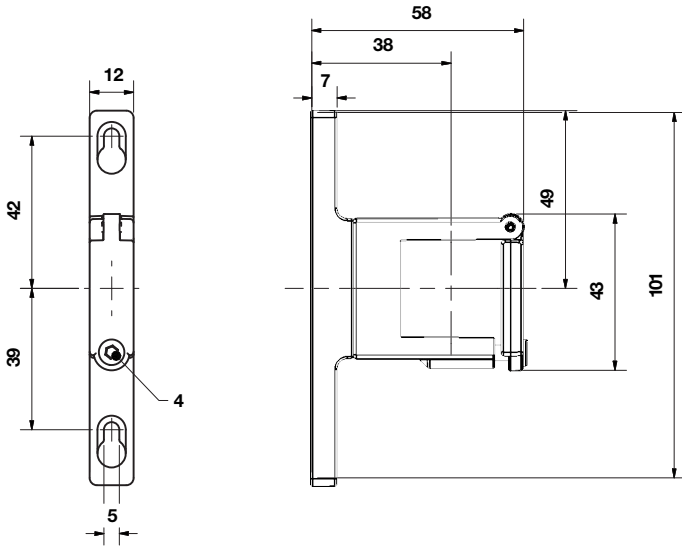
Dimensions

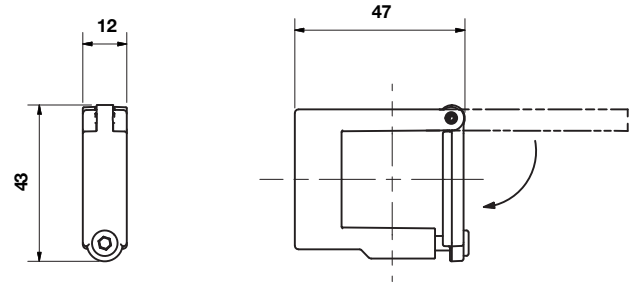
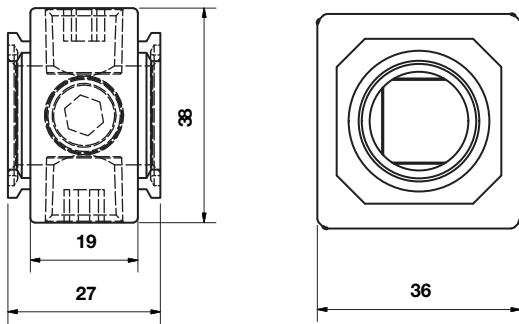
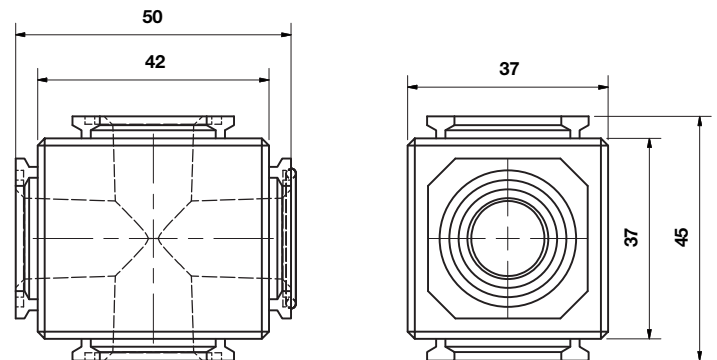
Dimensions in mm
Projection/First angle

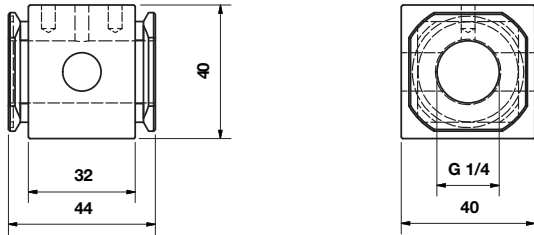


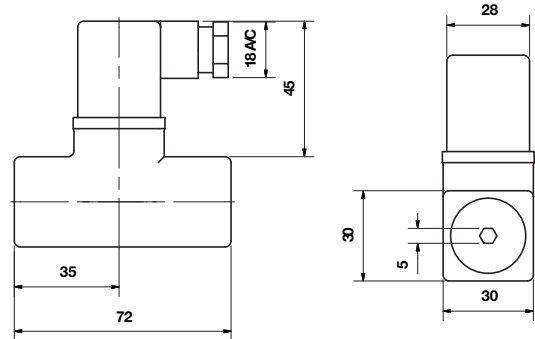
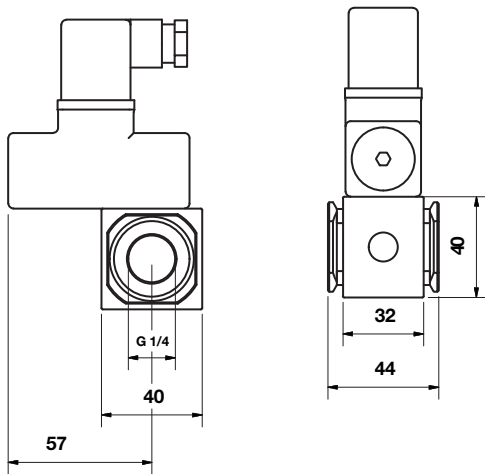
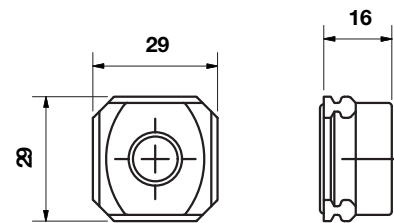
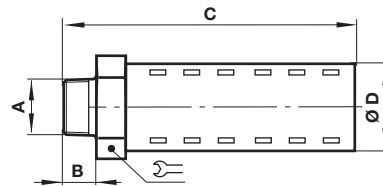
1 1/4" exhaust port (NPT or ISO G)



Accessories
Quikclamp® with wall bracket

Quikclamp®

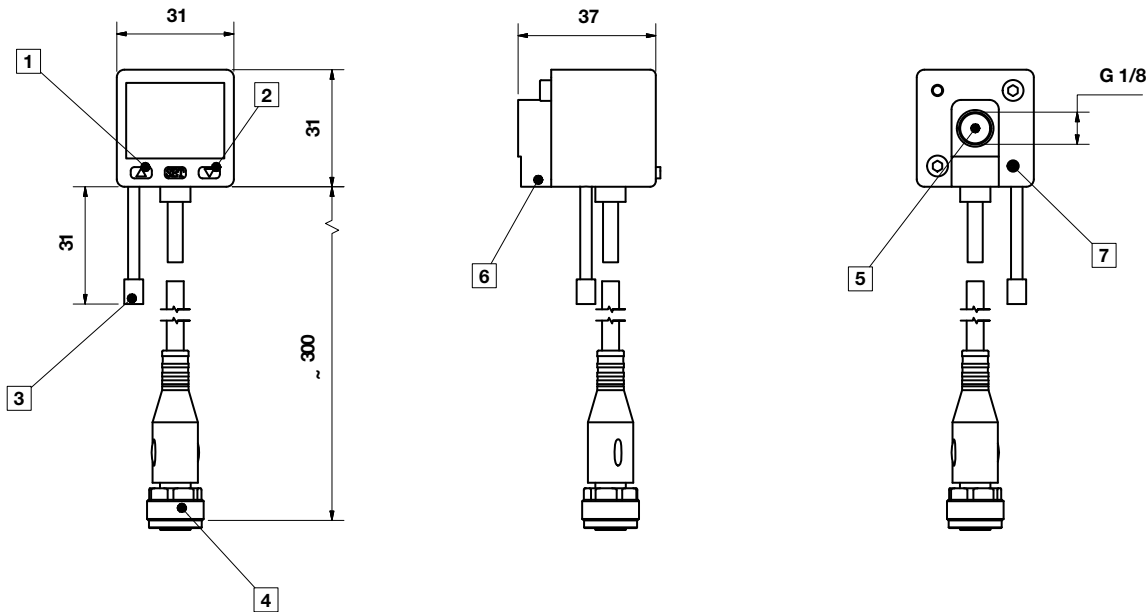
 Dimensions in mm
 Projection/First angle

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

Pipe adaptor

Silencer


A	B	C	D		Model
R1/4	17	92	32	32	MB002B
1/4 NPT	17	92	32	32	MB002A

51D Pressure switch - digital

 Dimensions in mm
 Projection/First angle


- 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

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.