CUSTOM UNITS SUMMARY

		Syntesi _®	
		Syntesi _® PROGRESSIVE START VALVE	G4 .4
_		bit	
		• bit FILTER WITHOUT FILTERING ELEMENT	G4 .6
		bit MICRO-REGULATORS WITH SPECIAL GREASE	G4 .7
		bit MICRO-REGULATORS WITH SOME PARTS MISSING	G4 .8
		bit MICRO-REGULATORS WITH SAFETY VALVE LOCK	G4 .9
	8	R-FR bit BRACKET CENTRE DISTANCE 40 mm	G4 .10
_		Skillair _®	
-		Skillair [®] 300 CLEANER WITHOUT FILTERING ELEMENT	G4 .12
		Skillair [®] 200 FILTER-REGULATOR WITH METAL BOWL	G4 .13
		Skillair® REGULATOR WITH FOOD INDUSTRY SUITABLE GREASE	G4 .14
AMARY		Skillair® REGULATORS WITH SPECIAL GREASE	G4 .15
UNITS SUA	۲	Skillair [®] SERVO PILOTED PILOT REGULATOR	G4 .16
CUSTOM		Skillair® 100 5-POSITION SUB-BASE	G4 .17
DUCTS		Skillair [®] SHUT-OFF VALVE LOCKABLEIN 2 POSITIONS	G4 .18
		OIL CHECK VALVE WITH DRAIN Skillair® 100	G4 .19
CUSTO		OIL CHECK VALVE Skillair® 200	G4 .20
_		• OIL CHECK VALVE Skillair® 300	G4 .21



New deal	
• New deal 1/4" FILTER-REGULATOR WITH NON-REGULATED AIR INTAKE	G4 .22
New deal FILTERS WITHOUT FILTERING ELEMENT	G4 .23
New deal 3/8" LUBRICATOR WITH OIL FILLING FROM THE TOP	G4 .24
New deal BOTTON OIL FILLING LUBRICATOR	G4 .25
New deal 1/4" AIR INTAKE WITH WALL FIXING	G4 .26
New deal AIR INTAKE 3/8" - 1/2" SPECIAL	G4 .27
New deal 1" REGULATOR WITH SPECIAL GREASE	G4 .28
• TANK-BOWL R1/2"	G4 .29
• OIL CHECK VALVE WITH DRAIN New deal 1/4"	G4 .30
• OIL CHECK VALVE New deal 3/8"-1/2"	G4 .31
OIL CHECK VALVE New deal - ASSEMBLY	G4 .32
ONE	
• ONE SERIE SAFE AIR®	G4 .34
	 New deal 1/4" FILTER-REGULATOR WITH NON-REGULATED AIR INTAKE New deal FILTERS WITHOUT FILTERING ELEMENT New deal 3/8" LUBRICATOR WITH OIL FILLING FROM THE TOP New deal BOTTON OIL FILLING LUBRICATOR New deal 1/4" AIR INTAKE WITH WALL FIXING New deal AIR INTAKE 3/8" - 1/2" SPECIAL New deal 1" REGULATOR WITH SPECIAL GREASE TANK-BOWL R1/2" OIL CHECK VALVE WITH DRAIN New deal 1/4" OIL CHECK VALVE New deal 3/8"-1/2" OIL CHECK VALVE New deal - ASSEMBLY

PRECISION REGULATION AND PRESSURE CONTROL

-	PRE-SET bit	G4 .38
\$ \$	PRE-SET New deal AND Skillair®	G4 .39
F	PRESSURE SWITCH WITH TWO ELECTRIC SIGNALS	G4 .40
\$	PRESSURE SWITCHES	G4 .41

SUNTESI. PROGRESSIVE START VALVE

The progressive start valve (VAP) is a pneumatic component that allows air enter the circuit gradually, thereby avoiding excessive pressure bursts. A sophisticated system of internal valves allows two separate stages of operation. During the first stage, a quantity of air that can be regulated via a pin flows from the VAP. The second stage starts when the downstream pressure reached 40 to 60% of the upstream pressure, during which full-port flow is achieved.

When the supply pressure is cut off, the VAP still remains open to allow the system to be relieved downstream.

In the final relief stage, part of the downstream pressure is relieved by the VAP itself.

The progressive start valve (VAP) is particularly useful on machinery where it is important to prevent actuators from moving rapidly and out of control, or where, for safety reasons, the air in-feed needs to be gentle and gradual.

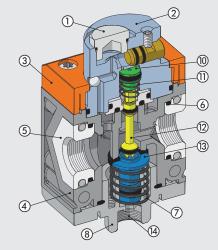
It, however, there is a major leak in the downstream system, it may never be possible to achieve the pressure required to open the valve completely.



TECHNICAL DATA			VAP SY1			VAP	SY2	
Threaded port		1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Threaded discharge port			1/8"			1/	4"	
Inlet pressure	bar		3 - 15			3 -	13	
	MPa		0.3 - 1.5			0.3	- 1.3	
	psi		43 - 217			43 -	188	
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	Nl/min	900	1000	1100	2800	3600	36	00
	scfm	32	39	39	99	127	12	27
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min	1250	1500	1600	4400	4800	48	00
	scfm	44	53	57	156	170	17	0
Drain flow rate at 6.3 bar (0.63 MPa; 91 psi)	Nl/min		500			27	00	
	scfm		18			9	6	
Maximum flow rate start-up, at 6.3 bar (0.63 MPa; 91 psi)	Nl/min		170			70	00	
with regulation pin completely unscrewed	scfm		6			2	5	
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C	F	rom -10 to +5	0		From -10	0 to +50	
Weight	g	193	185	179	477	452	448	437
Fluid				Compresse	ed air or other	inert gases		
Mounting position					In any positio			
Additional air take-off, for pressure gauges or fittings		1/	8", front and r	ear		1/4", fron	it and rear	
Additional air take-off flow rate at 6.3 bar	Nl/min		500			15	00	
(0.63 MPa; 91 psi) ∆P 1 bar (0.1 MPa; 14 psi)	scfm		18			5	3	
Wall fixing screws		N	lo. 2 M4 screv	VS		No. 2 M	5 screws	

COMPONENTS

- 1) OT58 nickel-plated brass cap
- Anodized aluminium upper block
- ③ Technopolymer flange
- ④ Technopolymer body
- (5) IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
- 6 O-ring NBR gasket
- ⑦ Stainless steel valve spring
- ⑧ Technopolymer bottom plug
- OT58 brass progressive start regulation pin
- 10 OT58 brass internal valve
- 1) Stainless steel spring stem recoveryng
- 12 OT58 brass stem
- OT58 brass main valve with vulcanized gasket
- (4) OT58 brass threaded insert



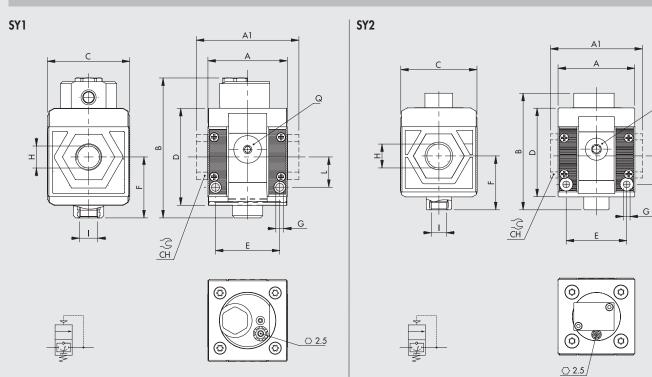


CUSTOM PRODUCTS Syntesia, PROGRESSIVE START VALVE



Q

DIMENSIONS



	VAP SY1	VAP SY2
H (threaded port)	1/8" 1/4" 3/8"	3/8" 1/2" 3/4" 1"
Α	42	60.5
Al	44	95 95
В	74	92.5
С	44	61
СН	-	32 36
D	51.5	70.5
E	33.5	47.5
F	32.2	42.7
G	Hole for M4 screws	Hole for M5 screws
I (exhaust))	1/8"	1/4"
L	16	22.5
Q (additional air takes-off)	1/8"	1/4"

ORDERING CODES

Code	Description
82950D9	VAP SY1 without bushings
82950D8	VAP SY2 without bushings

ACCESSORIES

THREADED PORT



Code	Description
9210001	Kit IN OUT 1/8 SY1
9210002	Kit IN OUT 1/4 SY1
9210003	Kit IN OUT 3/8 SY1
9210011	Kit IN OUT 3/8 SY2
9210012	Kit IN OUT 1/2 SY2
9210013	Kit IN OUT 3/4 SY2
9210014	Kit IN OUT 1 SY2

Max torque 0.4 Nm for SY1 Max torque 2.5 Nm for SY2

NOTES

This is a standard filter without a filtering element that can be used as a tank.

Instead of the RMSA there is a plastic cap similar to the one used for lubricator bowls.

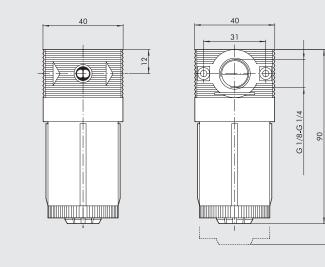
N.B.: For technical data refer to the standard version.



108

DIMENSIONS

G4



ORDERING	G CODES	
Code	Description	
8292109	Description Fil BIT 1/8 without filtering element Fil BIT 1/4 without filtering element	
8292111	Fil BIT 1/4 without filtering element	
	·	
N.B.: Capacity:	city: ~ 30 cm ³ .	

bit MICRO-REGULATORS WITH SPECIAL GREASE



G4

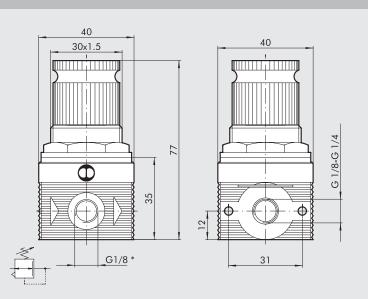
BERULUB OX 40 is used to lubricate the inner parts that come into contact with the flow of air oxygen-compatible grease. In this case, the compressed air that may come into contact with oxygen is not polluted.

N.B.: MW regulators have been designed and tested for use with compressed air. No claims can be made by the user if they are used with other fluids.

N.B.: For technical data refer to the standard version.



DIMENSIONS



ORDERING CODES

Code	Description	
8826701	MR Bit 1/8 02	with special g

grease

NOTES

BERULUB OX 40 EP: is a white silicone-based oil for oxygen installations, used as a lubricant in pressure reducers, valves and other equipment in healthcare sectors and for the lubrication of O-ring seals in autogenous welding systems.

At an operating temperature of 60° C, the grease pressure limit is 60 bar.

The grease temperature range is from -40 to $+200^{\circ}$ C.

Suitable for lubricating sliding and rolling elements made of metal (steel and non-ferrous metal) or synthetic material.

* Pressure gauge port

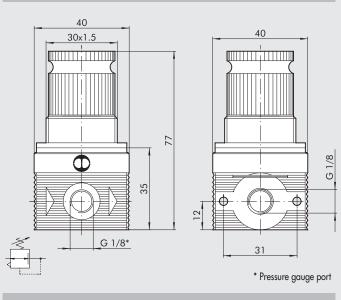
bit MICRO-REGULATORS WITH SOME PARTS MISSING

These bit micro-regulators are supplied incomplete for installation requirements.

N.B.: For technical data refer to the standard version.



WITHOUT RING NUT AND BOX

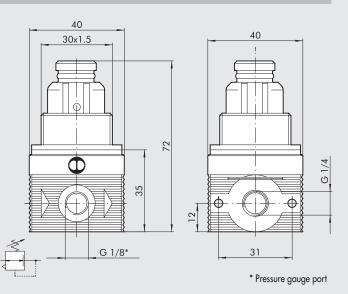


ORDERING CODES

Code	Description
8286801	MR BIT 1/8 04 without ring nut

N.B.: Supplied unpacked and without ring nut.

WITHOUT RING NUT AND KNOB



ORDERING CODES

Code	Description
8384501	MR BIT 1/4 02 without ring nut and knob
8384502	MR BIT 1/4 08 without ring nut and knob

N.B.: Supplied without fixed ring nut and without adjusting knob.

bit MICRO-REGULATORS WITH SAFETY VALVE LOCK



This comprises a bit unit that has been preset at max. 4 bar, a ball cock valve, a 0 to 4 bar pressure gauge and two safety valves set at 3.8 bar +0 / -10%.

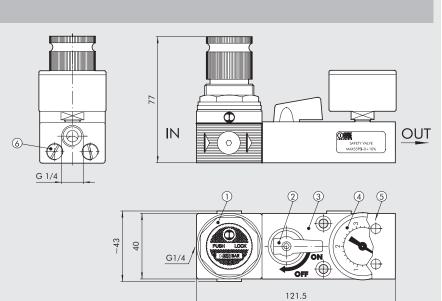
It is used to supply compressed air to mixers and other devices where it is important for the pressure not to exceed the maximum value even when the regulator is faulty.



DIMENSIONS

MR Bit 1/4 04 max 4 bar
 Ball tap
 Painted aluminium body

- ④ Pressure gauge 04 Ø 40
- 5 Valve drain
- 6 Safety valves



ORDERING	CODES	
Codo	Description	

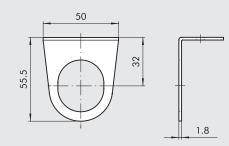
8825970 MR Bit + safety valve lock + ball cock valve

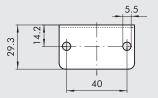
The centre distance of the fixing holes on this bracket is 40 mm.



DIMENSIONS

G4





ORDERING CODES

Code	Description
8000210	R-FR fixing bracket centre distance 40

Material: white zinc-plated steel.



NOTES	

Skillair 300 CLEANER WITHOUT FILTERING ELEMENT

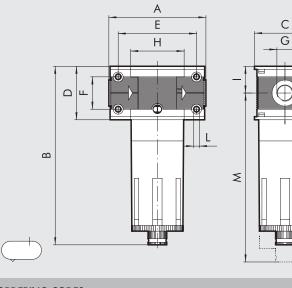
This is an STD cleaner without a filtering element that can be used as a tank.

N.B.: For technical data refer to the standard version.



DEP 300

DIMENSIONS



Threaded port G	1/2″
Α	110
В	195
С	72
D	65
E	92
F	42
н	65
I	32.5
L	M5 hole
M	215

ORDERING CODES

Code	Description
8825975	Dep 300 1/2 without filtering element

N.B.: The cup inside the bowl is made of nickel-plated OT58 brass.

NOTES

Skillair 200 FILTER-REGULATOR WITH METAL BOWL

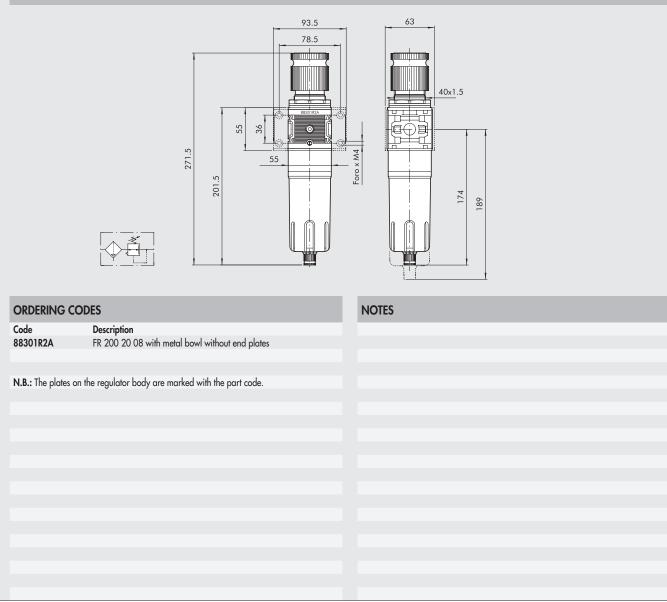


G4

This is a FR with black painted aluminium bowl. The inner cup is made of clear plastic.

N.B.: For technical data refer to the standard version.

DIMENSIONS



Skillair Regulator with food INDUSTRY SUITABLE GREASE

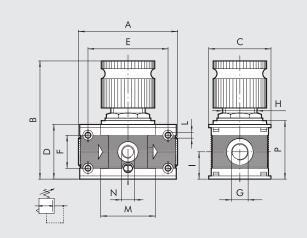
As it is compatible for use in the food industry, Molycote 111 grease is used to lubricate internal parts that come into contact with the air flow.

N.B.: For technical data refer to the standard version.



REG 200

DIMENSIONS



Threaded port G	1/4″	3/8″	1/4″	3/8″	1/2″
A		8	93.5		
В	9	8		125	
С	5	0		63	
D	4	3	55		
E	6	3	78.5		
F	2	6		36	
Н	30 >	1.5		40 x 1.5	
1		.5	27.5		
L	M4	hole	M5 hole		
Μ	43		55.5		
N (pressure gauge port)	1/8″		1/8″		
Р	46			58	

REG 100

NOTES

Molykote 111: is a clear, high-viscosity white silicon grease approved by the British Standard WRC. It is important not to mix it with other types of grease.

 Description

 8825935
 Reg 100 1/4 08 Molykote

 8825960
 Reg 200 1/2 08 Molykote

Skillair Regulators WITH SPECIAL GREASE



BERULUB OX 40 EP is used to lubricate the inner parts that come into contact with the flow of air oxygen-compatible grease. In this case, the compressed air that may come into contact with oxygen is not polluted.

N.B.: MW regulators have been designed and tested for use with compressed air. No claims can be made by the user if they are used with other fluids.

N.B.: For technical data refer to the standard version.



DIMENSIONS

ORDERING CODES

Description

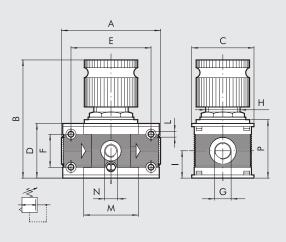
Reg 100 3/8 012 with special grease

Reg 300 012 with special grease without end plates

Code

8826185

8826186



	REG	100	REG 300		
Threaded port G	1/4″	3/8″	1/2″	3/4″	1″
Α	7	78	1	10	112
В	9	8	148		
С	5	50	72		
D	4	13		65	
E	6	53		92	
F	2	26	42		
н	30 x 1.5		48 x 1.5		
I	21.5		32.5		
L	M4 hole		M5 hole		
Μ	43		65		
N (pressure gauge port)	1/8″		1/8″		
Р	4	16		69	

NOTES

BERULUB OX 40 EP: is a white silicone-based oil for oxygen installations, used as a lubricant in pressure reducers, valves and other equipment in healthcare sectors and for the lubrication of O-ring seals in autogenous welding systems.

At an operating temperature of 60° C, the grease pressure limit is 60 bar.

The grease temperature range is from -40 to $+200^{\circ}$ C.

Suitable for lubricating sliding and rolling elements made of metal (steel and non-ferrous metal) or synthetic material.

This is made by combining the bottom of the pilot regulator and the top of the Skillair[®] pilot regulator.
Double rolling diaphragm to ensure maximum stroke and flow rate.

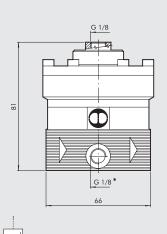
- Low load losses.

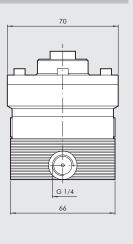
G4

High in pressure setting accuracy.
High sensitivity during relieving.
A slight air leak is required for correct operation of the regulator and is not to be considered as a malfunction.



TECHNICAL DATA		PILOT REGULATOR
Threaded port		1/4″
Setting range	bar	Depending on the pilot
Max. input pressure	MPa	1.3
	bar	13
	psi	188
Flow rate at 6.3 bar (0.63 MPa to 91psi) ∆P 0.5 bar (0.05 MPa to 7psi)		120 Nl/min - 4.3 scfm
Flow rate at 6.3 bar (0.63 MPa to 91psi) ∆P 1 bar (0.1 MPa to 14psi)		140 Nl/min - 5 scfm
Fluid		Filtered, lubricated or unlubricated compressed air.
		Lubrication, if used, must be continuous.
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50
	°F	122
Weight	kg	0.6
Mounting position	-	In any position
Pressure gauge port		1/8″
Notes on use		The regulator pressure must always be set upwards
		For increased sensitivity, use a pressure regulator with a rated pressure
		as close as possible to the required value.
		Do not take air from the pressure gauge ports. Mount directly on Reg 400.





ORDERING CODES

Code 8293317

Description Reg P 1/4 pilot

CUSTOM PRODUCTS Skillair® SERVO PILOTED PILOT REGULATOR

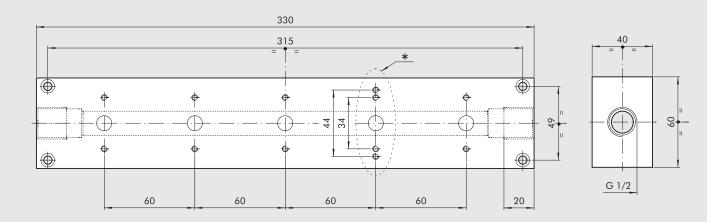
Skillair 100 5-POSITION SUB-BASE



A 5-position sub-base for the Skillair® 100. The 4th position can be used for the Skillair® 200.



DIMENSIONS



* Position also compatible with Skillair® 200

ORDERING	CODES	NOTES
Code	Description	
8000209	Description SK 100 5-position sub-base	
N.B.: The code	does not include adaptor bases.	

Skillair shut-off valve lockablein 2 positions

Unlike the standard V3V, which can only be locked in the closed position, this version can be locked during operation.

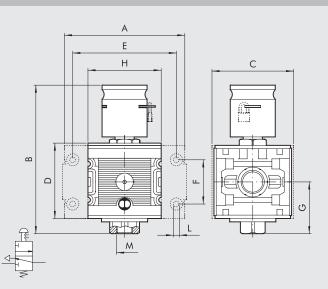
N.B.: For technical data refer to the standard version.



V3V 200

V3V 300

DIMENSIONS



Threaded port G	1/4″ 3/8″	1/4" 3/8" 1/2"	1/2" 3/4" 1"
Α	78	93.5	110 112
В	106	119	132
С	50	63	72
D	43	55	65
E	63	78.5	92
F	26	36	42
н	43	55.5	65
1	33.5	40	46.5
L	M4 hole	M5 hole	M5 hole
M (relief)	1/8″	1/4″	3/8″

V3V 100

ORDERING CODES

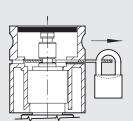
Code 8286464A 8286465A 8286466A

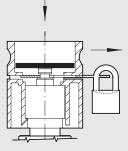
Description A V3V 100 lockable in 2 positions without end plates A V3V 200 lockable in 2 positions without end plates A V3V 300 lockable in 2 positions without end plates

OPERATION

DE-ACTIVATED

ACTIVATED





OIL CHECK VALVE WITH DRAIN Skillair 100

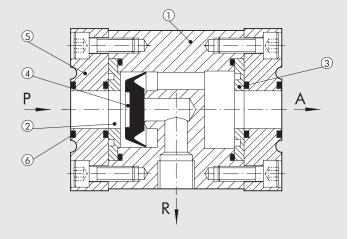


This module can be inserted between two Skillair® 100 elements (e.g. a filter and a lubricator) to prevent the oil from returning due to back pressure. In this case oil is drained out via a 1/8" (R) threaded coupling.

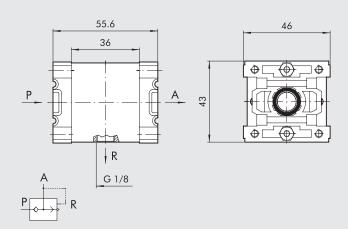


COMPONENTS

- (1) Black anodised aluminium body
- ② Anodised aluminium input plate
- 3 Anodised aluminium output plate
- ④ Adiprene lip seal
 ⑤ Adaptor base made of zamak
- 6 NBR seals



DIMENSIONS



ORDERING CODES

Code Description 8282717 VNRO 100

G4

This module can be inserted between two Skillair® 200 elements (e.g. a filter and a lubricator) to prevent the oil from returning due to back

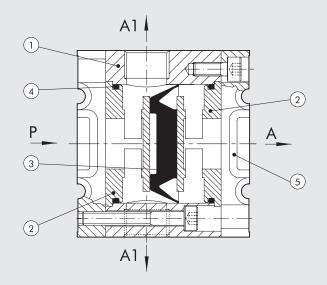
pressure. 1/4'' couplings (A1) to be used as air intakes are mounted before the VNRO.



COMPONENTS

- 1) Body made of black anodised aluminium
- 2) Input spacer ring made of OT58 nickel-plated brass
 3) Output spacer ring made of OT58 nickel-plated brass
 4) Adiprene lip gasket
 5) Adaptor base made of zamak

A1 = air intakes before VNRO



	Code 8331521
50.6	
33.8 59	
A1	
A1	
G 1/4	
4	
$-\mathcal{O}\Psi$	

DIMENSIONS

ORDERING CODES

Description VNRO 200

OIL CHECK VALVE Skillair 300

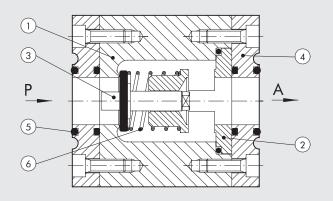


This module can be inserted between two Skillair® 300 elements (e.g. a filter and a lubricator) to prevent the oil from returning due to back pressure.

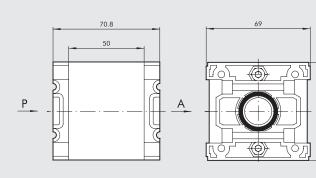


COMPONENTS

- (1) Body made of black anodised aluminium
- spacer ring made of OT58 nickel-plated brass
 Valve with NBR vulcanized gasket
- ④ Adaptor base made of zamak⑤ NBR seals
- 6 Stainless steel valve spring



DIMENSIONS



ORDERING CODES Co 81

ode	Description
149903	VNRO 300

55

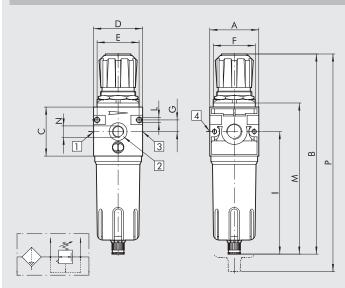
The main feature of this filter-regulator is that the 1/8'' front port (2) is connected to the filtered non-regulated air pipe, while the rear port (4) is connected to the filtered and regulated air pipe, as with standard ports.

N.B.: For technical data refer to the standard version.



DIMENSIONS

G4

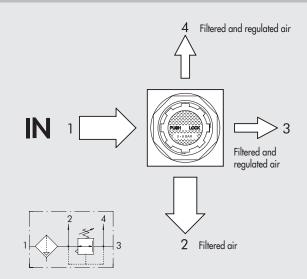


ORDERING CODES

Code	Description
8293155	FR ND 1/4 20 08 RMSA

	FR ND 1/4"
Threaded port	1/4″
A	42
В	190
С	42
D	42
E	36
F	30 x 1.5
G	10
I	121
L	M4 hole
Μ	145
N	1/8″
Р	233

OPERATING SCHEME



Please contact our sales offices for further information and quotation.

New deal filters WITHOUT FILTERING ELEMENT

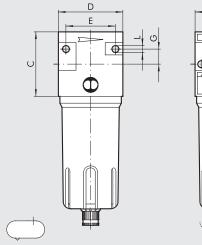


These are standard filters without a filtering element that can be used as tanks.

N.B.: For technical data refer to the standard version.



DIMENSIONS



A		
	т 	
	۵	×

	FIL ND 3/8"	FIL ND 1/2"	FIL ND 3/4"	FIL ND 1"
Threaded port	3/8″	1/2″	3/4″	1″
A	6	0	8	0
В	18	30	235	
С	6	0	8	0
D	6	0	8	0
E	4	6	6	6
G	1	4	2	2
Н	3	0	4	0
L	M4	hole	M6 hole	
м	23	30	325	

ORDERING CODES		
Code	Description	
8842323	Fil ND 3/8 without filtering element	
8826446	Fil ND 1/2 without filtering element	
8826449	Fil ND 1 without filtering element	
	-	

Bowl capacity: ND 3/8-1/2 = ~ 200 cm³ ND 1 = ~ 490 cm³ NOTES

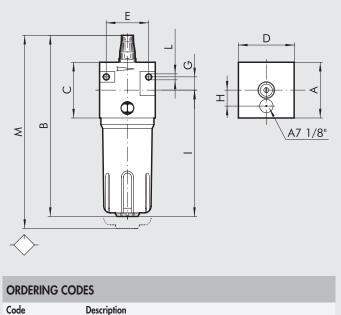
This is a lubricator with a 1/8'' hole at the top of the body to allow oil filling from the top without the need to remove the bowl. During use, the hole in the lubricator is plugged by an A7 fitting.

N.B.: For technical data refer to the standard version.



DIMENSIONS

G4



Lub ND 3/8 with oil filling from the top

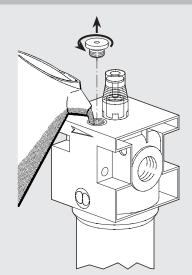
Description

The body is painted grey.

N.B.: Disconnect the pressure feed before filling the system with oil.

	LUB ND 3/8"
Threaded port	3/8″
A	60
В	195
С	60
D	60
E	46
G	14
н	17.2
I	136
L	M4 hole
M	220

OPERATING SCHEME



8283110

New deal BOTTON OIL FILLING LUBRICATOR



At the bottom of the bowl is a 1/4'' fitting for oil filling without having to remove the bowl.

During use, the 1/4'' hole in the lubricator is plugged by an A7 fitting, supplied with the lubricator.

N.B.: For technical data refer to the standard version.



LUB ND 1/4"

1/4″

42

~179

42

42

32

10

LUB ND 1/2"

1/2"

60

~221

60

60

46

14

LUB ND 1"

1″

80

~286

80

80

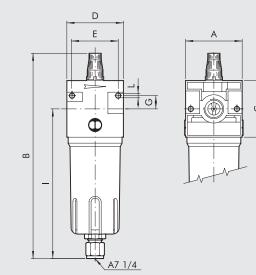
66

22

~208

M6 hole

DIMENSIONS



I ~133 ~162 C M4 hole M4 hole L

ORDERING CODES Code

8826439 8826440 8826441

Description
Lub ND 1/4 with oil filling
Lub ND 1/2 with oil filling
Lub ND 1 with oil filling

N.B.: Supplied with 2 screws.

Disconnect the pressure feed before filling the system with oil.

NOTES

Threaded port

Α

B C

D

Е

G

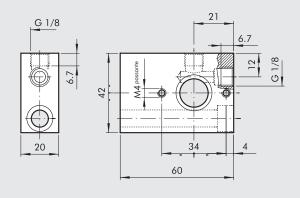
New deal 1/4" AIR INTAKE WITH WALL FIXING

The air intake has a depth of 60 mm to allow an New Deal $1/4^{\prime\prime}$ group to be fixed to the wall yet detached from it.

N.B.: With M4 fixing holes, the air intake cannot be connected directly to a regulator or filter-regulator.



DIMENSIONS



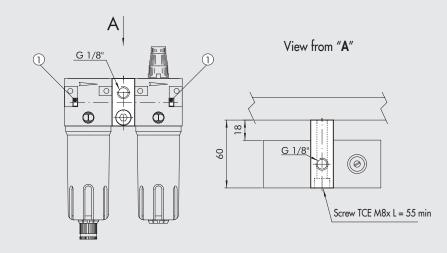
ORDERING CODES

Code	
8286810	

Description New Deal 1/4 air intake L = 60

N.B.: Supplied complete with 4 M4x35 (①) securing screws and seal. Material: black anodised aluminium.

TYPICAL ASSEMBLY



G4.26

New deal AIR INTAKE 3/8" - 1/2" SPECIAL

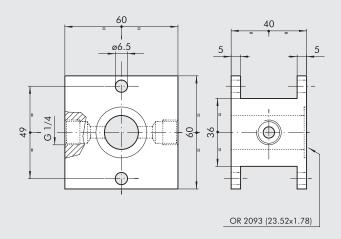


Due to its special design, the PA can be inserted between 2 regulators using four M5x10 screws.

The air outlets are situated on opposite sides, so that can be one at the front and one at the rear (Fig. 1), or one at the top and one at the bottom by rotating PA by 90° (Fig. 2).



DIMENSIONS



ORDERING CODES

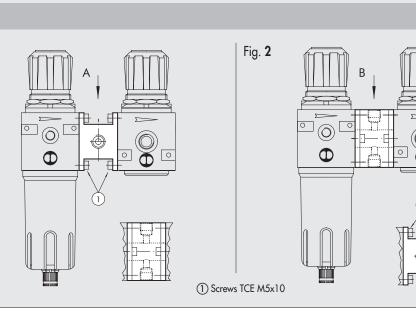
Code 8096902 **Description** New Deal air intake 3/8-1/2 special

N.B.: Supplied complete with one O-ring seal. Material: black anodised aluminium.

TYPICAL ASSEMBLY

Fig. 1

View from "A"



View from"B"

0

New deal 1" REGULATOR WITH SPECIAL GREASE

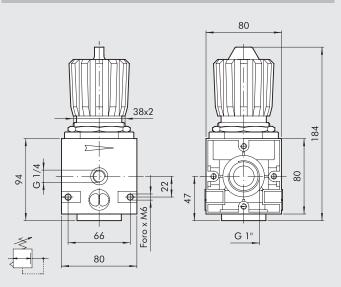
BERULUB OX 40 EP is used to lubricate the inner parts that come into contact with the flow of air oxygen-compatible grease. In this case, the compressed air that may come into contact with oxygen is not polluted.

N.B.: MW regulators have been designed and tested for use with compressed air. No claims can be made by the user if they are used with other fluids.

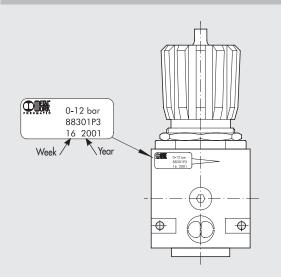
N.B.: For technical data refer to the standard version.



DIMENSIONS



IDENTIFICATION LABEL



ORDERING CODES

Code 88301P3 **Description** Reg ND 1 012 with special grease

NOTES

BERULUB OX 40 EP: is a white silicone-based oil for oxygen installations, used as a lubricant in pressure reducers, valves and other equipment in healthcare sectors and for the lubrication of O-ring seals in autogenous welding systems.

At an operating temperature of 60° C, the grease pressure limit is 60 bar.

The grease temperature range is from -40 to +200° C.

Suitable for lubricating sliding and rolling elements made of metal (steel and non-ferrous metal) or synthetic material.

CUSTOM PRODUCTS New deal 1" REGULATOR WITH SPECIAL GREASE

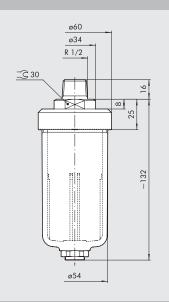
TANK-BOWL R1/2"



The SCAL bowl is made of clear plastic and used as a tank. The cap is made of orange painted brass.



DIMENSIONS



ORDERING CODES

Code 8261112

R1/2 tank-bowl

Description

N.B.: The capacity is about 164 cm³.

OIL CHECK VALVE WITH DRAIN Newdeal 1/4"

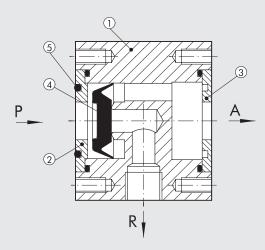
This module can be inserted between two New Deal 1/4" elements (e.g. a filter and a lubricator) to prevent the oil from returning due to back pressure. In this case oil is drained out via a 1/8" (R) threaded coupling.

N.B.: Use M4x75 screws to connect a regulator or filter-regulator to the lubricator.

COMPONENTS

G4

- (1) Black anodised aluminium body
- ② Anodised aluminium input plate
- (3) Anodised aluminium output plate
- (4) Adiprene lip seal
- (5) NBR seals

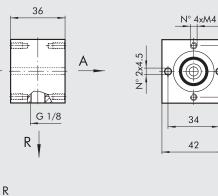


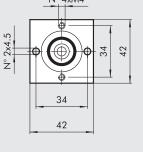
ORDERING CODES		
Code	Description	
8293138	VNRO New Deal 1/4	

N.B.: Comes complete with 2 M4x82 tie rods and 2 connecting bushings.

DIMENSIONS

Ρ





OIL CHECK VALVE Newdeal 3/8"-1/2"



This module can be inserted between two New Deal 3/8''-1/2'' elements (e.g. a filter and a lubricator) to prevent the oil from returning due to back pressure.

 $1/4^{\prime\prime}$ (A1) couplings to be used as air intakes are mounted before the VNRO.

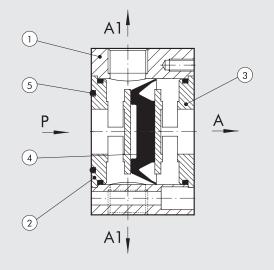
N.B.: Use M5x90 screws to connect a regulator or filter-regulator to the lubricator.



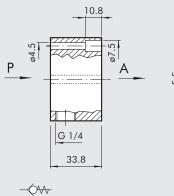
COMPONENTS

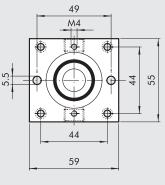
- 1) Body made of black anodised aluminium
- (2) Input spacer ring made of OT58 nickel-plated brass
- (3) Output spacer ring made of OT58 nickel-plated brass
- ④ Adiprene lip gasket
- (5) NBR seal

A1 = air intakes before VNRO



DIMENSIONS



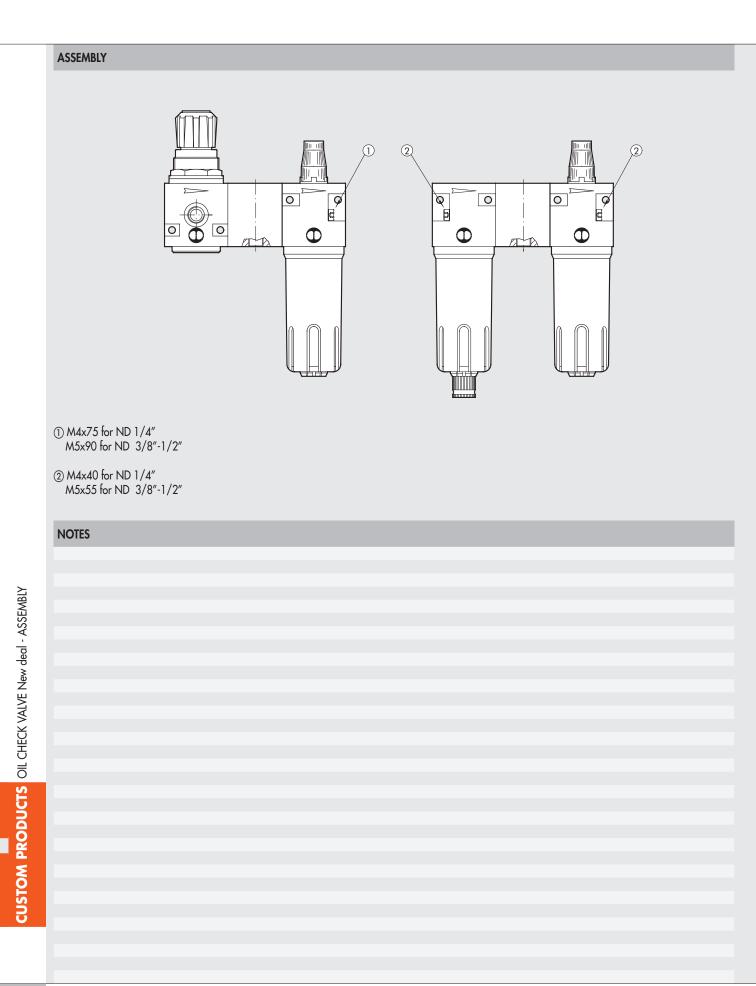


ORDERING CODES

Code	Description
8286727	VNRO New Deal 3/8-1/2

N.B.: Supplied complete with 2 M5x90 hex screws.

OIL CHECK VALVE Newdeal - ASSEMBLY





NOTES	

🔁 SERIE SAFE AIR®



ONE SAFE AIR $^{\scriptscriptstyle (\! \! R)}$ is a pneumatic safety component consisting of a ONE air treatment unit arranged in series with a 3/2 electro-pneumatic valve with spool monitoring. A pressure switch is placed between the ONE unit and the monitored

valve to indicate the presence of pressure.

The safety function consists of discharging the circuit downstream the component.

A maximum pressure valve is installed after the monitored valve. ONE SAFE AIR® comes in various configurations, all based on electric ONE units.

ONE SAFE AIR® is a component classified in category 4 according to ISO EN 13849 and is suitable for use in safety circuits up to PL = e. The product come with:

- a voluntary examination certificate no. TC1250/21/AD/ad, issued by Bureau Veritas in accordance with EN ISO 13849; a certificate of compliance examination to the Machinery Directive
- -2006/42/EC no. CV 015-12-2014 released by Bureau Veritas.

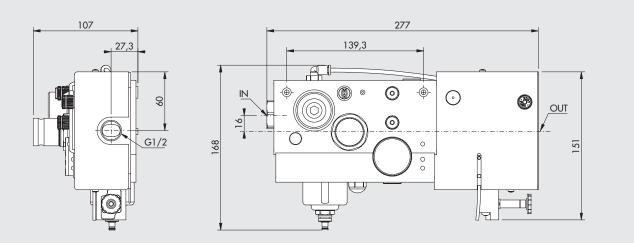


Operation	mm	Dual 3/2 monostable valve with pressure regulation
Fluid		Filtered unlubricated air (50 µm)
Operating temperature range	°C	-10 to +50
Operating pressure	bar	2.5 to 10
Delivery flow rate at 6.3 bar ∆p 0.5 bar (with 1/2″ input thread)	NI/min	2.510 10
Delivery flow rate at 6.3 bar Δp 0.5 bar (with 1/2" input thread) Delivery flow rate at 6.3 bar Δp 1 bar (with 1/2" input thread)	NI/min	3600
Pelivery flow rate at 6.3 bar Δp 1 bar (with 1/2 Input fireda) Flow rate on free exhaust silencer (ONE) at 6.3 bar	NI/min	1600
		4600
Flow rate on free exhaust silencer (valve) at 6.3 bar	Nl/min	36/60
TRA/TRR at 6.3 bar (safety valve)	ms/ms	
TRA/TRR at 6.3 bar	ms/ms	Depending on the APR/60
Solenoid pilot		According Cnomo
Manual actuator		Monostable on solenoid pilot
Coils		30 mm side, Ø 8 hole
		2 W - 24 VDC; 3.5 VA - 24, 110, 220 VAC 50/60 Hz
		22 mm side, Ø 8 hole
		2 W - 12, 24 VDC; 3.5 VA - 24, 110, 220 VAC 50/60 Hz
		Certified EN 60204.1 and VDE 0580*
Max coil ring nut torque	Nm	1
Maximum safety pressure switch current	A	2
Maximum safety pressure switch voltage	V	250
Pressure switch contacts		Normally open (NO) and normally closed (NC)
Insulation class of the solenoid ONE		F155
Switching time		100% ED
Electrical connector		M12x1, 5-PIN 90°, according to CEI IEC 60947-5-2 *
Power solenoid ONE	W	3/0.3
Voltage solenoid ONE	V	24VDC ±10%
Type of sensor used		Hall effect
Wall fixing (max. panel thickness 10 mm)		Front, with M5x75 screws or back, with M6x70 screws.
		The screws are included in the supply.
Maximum torque screws ONE	Nm	3.5 ±0.5
Mounting position		Vertical
Direction of flow		From left to right
Weigth	kg	2.5
Compatibility with oils	Ng	See chapter Z1
Class of protection		IP65 with coil and connector mounted
Noise level		Max. 78 dBA with silenced relief
B10d		20 x 10 ⁶ cycles
Categoria - ISO EN 13849		4
DC Low		High (>99 %)
CCF		90
PL - ISO EN 13849		Suitable for use in safety circuits up to PL=e

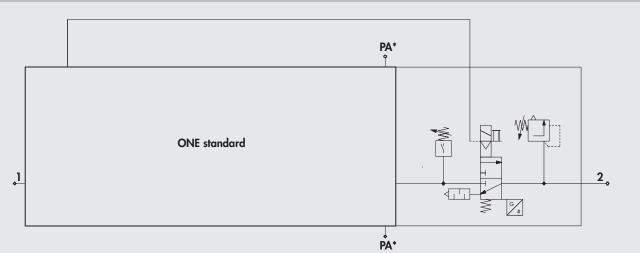
* To avoid malfunctions, we recommend using Metal Work accessories.



DIMENSIONS



OVERALL DIAGRAM



* No safety function is provided for PA.

NOTES

NOTES			

ORDERING C	ORDERING CODES									
	B	C			F	G	H			
ONE electric	Air intake	Degree of filtration	Clogged filter signal	Condensate drain	Pressure regulation	Valves	Pressure switch	Air outlet		Various
JIMKEX	3	2	1	1	8	7	1	0	S	1
54 ONE electric	3 1/2"	2 20 μm	0 NO	0 RMSA	4 0.5 to 4 bar	5 V3V manual and V3V electric	0 NO	0 Without bushing	S Safe air®	M8 pressure switch (0.3 m) + M8 sensor (0.3 m)
	4 3/4"	5 5 μm	1 YES	1 auto- matic (RA)	8 0.5 to 8 bar	6 V3V manual with padlock and V3V electric	1 YES		3	M8 pressure switch (0.3 m) + 3 wire sensor (2 m)
	5 1″					7 V3V manual and APR electric			6	2 m pressure switch + M8 sensor (0.3 m)
						8 V3V manual with padlock and APR electric			8	3 2 m pressure switch + 3 wire sensor (2 m)
						9 only V3V electric				
						A only APR electric				

C 4

ONE electric

) Air intake

There are 3 different gas cylindrical threads: 1/2", 3/4" and 1".

Degree of filtration

A cartridge with a degree of filtering of 5 µm (yellow) or 20 µm (white) is available. This value is marked on the plug.

Clogged filter signal

If the filter gets so clogged up that it causes an excessive drop in pressure as the air passes through, the orange indicator will project from the body by a few millimetres.

(E) Condensate drain

RMSA: the condensate is drained out automatically only by relieving the air pull the knurled knob for having the same result. Automatic (RA): a floating system that automatically drains the condensate out whenever the level of water in the bowl reaches the set value.

(F) Pressure regulation

There are 2 possible regulation fields. The value is marked on the regulation knob.

(G) Valves

There are 6 different combinations.

- 5 V3V manual and V3V electric: two V3V in series are present, one is manual the other electrical. By operating both the valve the air flow is
 allowed. If one or two are switched OFF, the air downstream is relieved. The electrical one can also be operated manually by reefing pushed
 the "TEST" button.
- 6 V3V manual with padlock and V3V electric: like the previous, with the padlock device in "OFF" position.
- 7 V3V manual and APR electric: One manual V3V and one soft start valve are present. When both are operated, the pressure starts to increase slowly, with a fine adjustable ramp, and when it reaches about 30-40% of the set value, the valve opens completely and the pressure rises to the set value.
- 8 V3V manual with padlock and APR electric: like the previous, with the padlock device on the manual V3V in "OFF" position.
- 9 V3V elettric: It's present only the electrical V3V. The valve will open if it is powered on. When the power supply is switched off, the valve closes and air downstream is relieved. The valve can also be operated manually by keeping pushed the test button.
- A APR elettric: It's present only the electric soft start valve. Whent it is powered ON, the pressure starts to increase slowly, with a fine adjustable ramp, and when it reaches about 30-40% of the set value, the valve opens completely and the pressure rises to the set value.

H Pressure switch

The pressure switch has a switching contact, which means you can have a normally-open signal or a normally-close signal. It is also connected to the NC and NO LEDs which come on if the actual pressure is less or greater than the set pressure, respectively. The LEDs only come on if an electric charge is connected to them.

Air outlet without bushings

- Safe air[®] versions
- M) Type sensors

G4

The following two types are available:

- Regulators with fixed setting: that can be set and locked with pressure at a fixed value. The adjusting screw can be fixed with Loctite to lock regulation.
- Regulators with maximum pressure setting: pressure can be regulated up to the maximum preset value. A spacer can be inserted on the adjusting screw to limit pressure.

Both types can be supplied with a standard knob or a blank unserigraphed knob.

MR regulators and FR filters-regulators can also be supplied.

N.B.: For technical data refer to the standard version.



The table below lists some of the versions currently available:

Code	Description	Type of setting	PM	PR	Notes
8295005	MR BIT 1/8 02 TF 2	TF	6	2	Without knob
8286723	MR BIT 1/8 04 TF 3	TF	6	3	Unserigraphed knob
8801703	MRA BIT 1/4 04 TF 4	TF	6	4	For water – unserigraphed knob
8286862	MR BIT 1/4 08 TF 8	TF	10	8	Unserigraphed knob
8849233	MRA BIT 1/8 01TM 1	TM	6	1	For water – unserigraphed knob
8286783	MR BIT 1/4 02 TM 1.5	TM	6	1.2	Unserigraphed knob
8295007	MR BIT 1/4 02 FC TM 1.8	TM	6	1.8	02 FC standard knob
8825972	MR BIT 1/8 04 TM 4	TM	6	4	04 standard knob
8825936	MR BIT 1/4 04 TM 4	TM	6	4	04 standard knob
8238506	MR BIT 1/4 04 TM 5	TM	6	5	Unserigraphed knob
8292123	MR BIT 1/8 08 TM 6	TM	7.5	6	06 knob
88301N3	MR BIT 1/4 08 TM 6	TM	7.5	6	06 knob

TF = fixed setting

TM = maximum setting

PM = upstream pressure

PR = regulated pressure

NOTES

The fixed or maximum upstream pressure and regulated pressure must always be defined.

The regulators must have a tolerance on the nominal value, measured without flow rate, as follows:

for fixed setting: ± 0.1 bar

• for max pressure setting: ± 15% of the maximum regulated pressure, and in no case less than ± 0.4 bar.

PRE-SET New deal AND Skillair



G4

The following two types are available:

- · Regulators with fixed setting: that can be set and locked with pressure at a fixed value. The adjusting screw can be fixed with Loctite to lock regulation.
- Regulators with maximum pressure setting: pressure can be regulated up to the maximum preset value.
 - A spacer can be inserted on the adjusting screw to limit pressure.

Both types can be supplied with a standard knob or a blank unserigraphed knob.

MR regulators and FR filters-regulators can also be supplied.

N.B.: For technical data refer to the standard version.





NOTES

The fixed or maximum upstream pressure and regulated pressure must always be defined

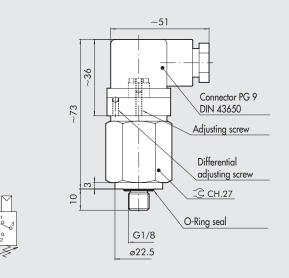
- The regulators must have a tolerance on the nominal value, measured without flow rate, as follows:
- for fixed setting: ± 0.1 bar
- for max pressure setting: ± 15% of the maximum regulated pressure, and in no case less than ± 0.4 bar.

PRESSURE SWITCH WITH TWO ELECTRIC SIGNALS

This pressure switch has two separate electric signals for opening and closing. The pressure difference for opening and closing can be regulated. The pressure switch comes with connector and fairlead.



DIMENSIONS



ORDERING CODES

Code	Descriptio
9000301	Adjustabl

on le pressure switch 1/8" PSM 10 R18 NA-NC

TECHNICAL DATA

	1 1	(<u>1</u> , <u>1</u> ,
Operating pressure	bar	from 1 to 10
Maximum static pressure	bar	80
Switching tolerance at 25 °C	bar	±0.4
Differential		min 10% - max 30% actual value
Temperature range	°C	from -5 to +90
Maximum voltage	VAC	250
Max. current intensity	A	6 (resistive) - 2 (inductive)
Degree of protection		IP65 DIN40050
Body		brass
Connector and fairlead	PA	6.6
Electric contacts		silver-coated copper 3µm
Diaphragm		NBR
Max. no. of switching at 25°		120 cycles/1'
Mechanical life		1000000 cycles
Torque	kgm	5
Weight	g	100
-		

NOTES

G4.40

Please contact our sales offices for further information and quotation.

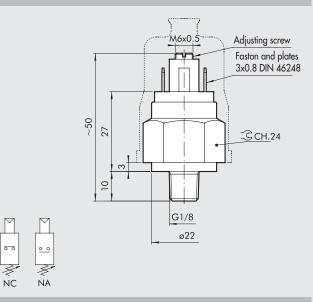
PRESSURE SWITCHES



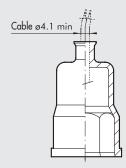
These pressure switches send an electric signal when they reach a pressure that can be adjusted by means of a screw. The NO version sends a signal if the pressure exceeds the set value. The NC version sends a signal if the pressure is below the set value.



DIMENSIONS



SAFETY CAP



TECHNICAL DATA

Operating pressure	bar	from 2 to 10
Maximum static pressure	bar	80
Switching tolerance at 25 °C	bar	±0.3
Fixed differential at 25 °C	bar	0.2
Temperature range	°C	from -5 to +60
Type of contact		NA o NC
Maximum voltage	VAC	48
Maximum working power	VA	20
Max. current intensity	A	0.5 (resistive) - 0.2 (inductive)
Rigidity test		1500 V - 10 mA -10 s
Degree of protection		IPOO
Degree of protection with CAP1		IP54
Body		brass
Faston contact holding frame	PA	6.6 charged
Electric contacts		silver-coated copper 3µm
Diaphragm		NBR
Max. no. of switching at 25°		200 cycles/1′
Mechanical life		1000000 cycles
Torque	kgm	5
Weight	g	63

ORDERING CODES

Code	
9000101	
9000201	
9000901	

Description Adjustable pressure switch 1/8" PMN 10 NA Adjustable pressure switch 1/8" PMN 10 NC Safety cap CAP1

-		
	NOTES	