

SUNTESI: SHUT-OFF-VALVE SAFE AIR® SERIES



The V3V Syntesi $_{\odot}$ SAFE AIR $^{\odot}$ is a three-way valve that, when closed, vents the downstream system. It is used during maintenance operations or when it is necessary to remove air from machinery or equipment. It is equipped with a diagnostic system, that uses an inductive sensor, to monitor the position of the spool.

This means that when the valve is deactivated, the sensor is in the ON state, when the valve is activated, the sensor is in the OFF state. A status in which the sensor is OFF state and the coil de-energized indicates that there is a problem.

To reduce the probability of risk during plant maintenance, the manual actuator mounted on the electric control is the monostable type. This valve is a category 2 component, according to EN ISO 13849, and is suitable for use in safety circuits up to PL = d.

For applications requiring higher performance levels, we have also develop a double-channel version (redundant) that requires the use of two valves with a monitored spool arranged so that port 2 of the first valve is connected to port 1 of the second valve. It is sufficient for just





one of the two valves to be de-energized to discharge the downstream system; so, even if one of the two spools remains blocked, the other guarantees relief of the compressed-air circuit. In this case, too, the presence of spool position sensors can be used to monitor the status. The double valve is a category 4 component according to EN ISO 13849 and is suitable for use in safety circuits up to PL = e.

Both the single and double channel valves come with: a voluntary examination certificate No. BVI-25-MAC-CV-0004 issued by Bureau Veritas in accordance with EN ISO 13849.

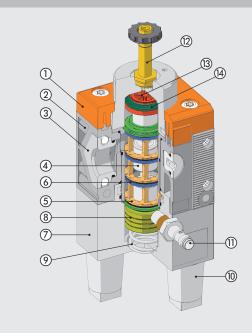
SINGLE V3V Syntesi_® SERIES SAFE AIR®

TECHNICAL DATA			SINGLE V3V S	Y2 SAFE AIR®	
Threaded port		3/8"	1/2"	3/4"	1"
Threaded discharge port			No. 2 fro	m 1/2"	'
Fluid			Filtered unlubrice	ated air (50µm)	
Operation			3/2 mon		
Operating pressure:					
non-assisted			from 3 to 10 bar - from 0.3 to	1 MPa - from 43 to 1	45 psi
pilot-assisted			from 0 to 10 bar - from 0 to	1 MPa - from 0 to 14	5 psi
Minimum pilot pressure			from 3 to 10 bar - from 0.3 to	1 MPa - from 43 to 1	45 psi
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C		from -10 to	o +50 *	
Weight	g	920	890	890	875
Conductance C	NI/min · bar	764	821		828
Critical ratio b	bar/bar	0.25	0.27		0.36
Flow rate at 6.3 bar Δp 0.5 bar	NI/min	2300	2550		2700
Flow rate at 6.3 bar Δp 1 bar	NI/min	3200	3500		3700
Conductance C on relief	NI/min · bar		74	2	
Critical ratio b on relief	bar/bar		0.0	9	
Flow rate on free exhaust at 6.3 bar	NI/min		540	00	
TRA/TRR at 6.3 bar	ms/ms		33/1	00	
Mounting position			In any p		
Wall fixing screws			No. 2 M5		
Hand operator			Monos		
Coils		22 (and 30 mm side, Ø 8 hole – EN		tion, type B
			Certified EN 60204.		
Class of protection			IP65 with coil and c		
Noise level		Max 95 dBA with silenced relief			
Max coil ring nut torque	Nm				
CE marking		In accordance with Machinery Directive, Annexe V ●			
Safety function		Cuts off the power supply and relieves the air circuit connected to port 2			
Type of sensor used		Inductive proximity sensors (refer to page C1.47 for sensor details)			
B10d		10 x 10 ⁶ cycles			
Category - EN ISO 13849		2			
PL - EN ISO 13849			Suitable for use in safet	ty circuits up to $PL = d$	

- fst The dew point must be at least 10°C lower than the fluid temperature, to avoid ice formation
- \blacksquare To avoid malfunctions, we recommend using Metal Work accessories
- The declaration can be downloaded from www.metalwork.it

COMPONENTS - SINGLE VALVE

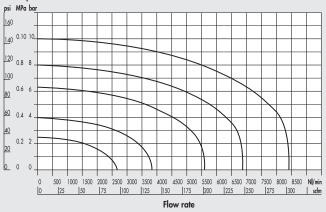
- Technopolymer flange
 Technopolymer body
- 3 IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
- 4 Chemically nickel-plated aluminum spool
- (5) Technopolymer distance(6) NBR gaskets
- Anodized aluminium end cap
- 8 Aluminum spring guide
- Special steel spring
- 10 Silencers
- 11) Inductive sensor
- ② Operator: Brass pipe Stainless steel core
- (3) Technopolymer piston
- (4) NBR piston gasket



FLOW CHARTS ON DELIVERY - SINGLE VALVE

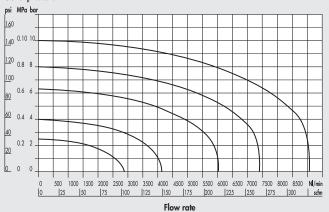
V3V Syntesi® SY2 3/8"

Outlet pressure



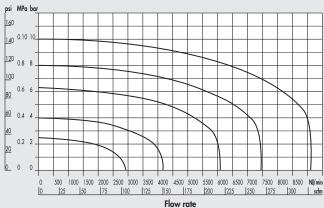
V3V Syntesi® SY2 1/2"

Outlet pressure



V3V Syntesi® SY2 3/4" - 1"

Outlet pressure

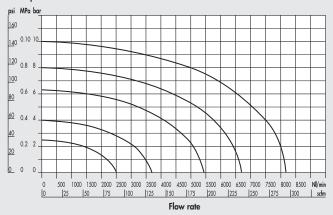




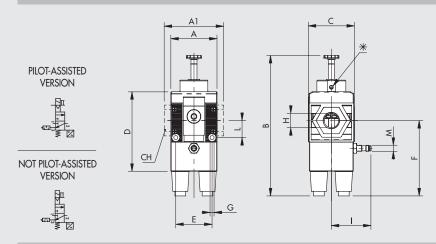
FLOW CHARTS ON RELIEF - SINGLE VALVE

V3V Syntesi® **SY2** 3/8" - 1/2" - 3/4" - 1"

Outlet pressure



DIMENSIONS - SINGLE VALVE



		SIZ	E 2			
H (threaded port)	3/8"	1/2"	3/4"	1"		
Α		60).5			
A1	-	-	95	95		
В		18	36			
C		6	1			
CH	-	-	32	36		
D	105					
E	47.5					
F		9	7			
G		Hole for A	√05 screws			
1		5	3			
L		22	2.5			
M		M8	3x1			
* Pilot		N	15			

KEY TO CODES - SINGLE VALVE

121	2	3	W	70	3
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	ТҮРЕ	THREADED OUTPUT CONNECTION
56 Syntesi	2 Size 2	 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port 	W Shut-off-valve Safe Air®	30 Solenoid pilot-assisted70 Solenoid	 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

PURCHASE ORDER CODES HAVING A MORE FREQUENT USE - SINGLE VALVE

N.B. Besides the below mentioned codes, you can order elements composed at your will according to the key to codes.

Code	Description
Syntesi _® SY2 S	SHUT-OFF-VALVES SAFE AIR®
5620W300	V3V SY2 elpn Safe Air® pilot-assisted without bushings
5623W303	V3V SY2 3/8 elpn pilot-assisted Safe Air®
5624W304	V3V SY2 1/2 elpn pilot-assisted Safe Air®
5625W305	V3V SY2 3/4 elpn pilot-assisted Safe Air®
5626W306	V3V SY2 1 elpn pilot-assisted Safe Air®

5620W700 V3V SY2 elpn Safe Air® without bushings **5623W703** V3V SY2 3/8 elpn Safe Air®

5624W704 V3V SY2 1/2 elpn Safe Air® 5625W705 V3V SY2 3/4 elpn Safe Air® 5626W706 V3V SY2 1 elpn Safe Air®

EXAMPLE OF A SAFETY CIRCUIT WITH A SINGLE VALVE

Below is an example of a wiring diagram for controlling Metal Work SAFE AIR® single valves using Pilz® components. Circuit components:

- a Pilz® safety module PNOZ® s3 for controlling the emergency stop button; terminal Y32 indicates the status of the module, which can be relayed
 to the machine control logic
- an emergency stop button S1 (Pilz® PIT® es Set) linked to terminals S11-S12-S22-S23 of the PNOZ® s3
- a Metal Work SAFE AIR® solenoid valve, the 24 VDC coil of which is fed by terminal 14 of the PNOZ® s3 (the other terminal of the coil is 0 V); the valve's Hall-effect sensor is 24 VDC
- a start/reset button S2
- a relay K1, controlled by the valve sensor; an NO contact of the relay is in series with button S2 of the PNOZ® s3.

Expected behaviour with the system operating correctly:

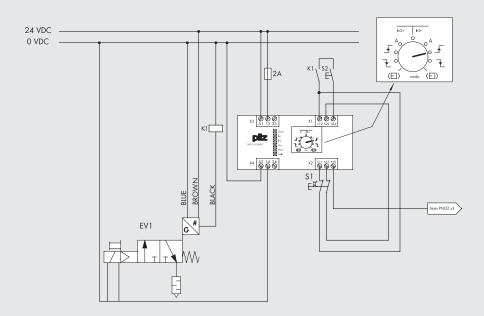
- system deactivated:
- o contact 14 is OFF
- the coil is de-energized
- the sensor is ON
- relay K1 is energized
- contact K1 is closed
- contact Y32 is OFF
- with the system activated via the start/reset button S2:
 - contact 14 is ON
 - the coil is energized
 - the sensor is OFF
 - relay K1 is de-energized
 - contact K1 is open
 - contact Y32 is ON

In the event of a malfunction (e.g. spool jam), the coil is de-energized but the sensor remains OFF, relay K1 remains de-energized, contact K1 remains open (preventing subsequent restarts) and contact Y32 is OFF.

In the event of a valve fault, the circuit in the diagram below does not allow relief of the compressed air system. Sensor status must be monitored to assess valve operation. Contact Y32 indicates the status of the PNOZ® s3, not the status of the sensor.

All the electrical connections between the various components must comply with the applicable safety regulations.

If the emergency button is operated at a frequency of 1 actuation per hour, the circuit activates a safety function with PL = c (calculations made with the PAScal programme by Pilz®). Responsibility for final checking that PL lies with the person assembling the circuit.





DOUBLE V3V Syntesi SERIE SAFE AIR®

TECHNICAL DATA	_	DOUBLE V3V SY2 SAFE AIR®			
Threaded port		3/8"	1/2"	3/4"	1"
Threaded discharge port		-, -		rom 1/2"	
Fluid				cated air (50µm)	
Operation				onostable	
Operating pressure:					
non-assisted		1	rom 3 to 10 bar - from 0.3	to 1 MPa - from 43 to 1	45 psi
pilot-assisted			from 0 to 10 bar - from 0		
Minimum pilot pressure		1	rom 3 to 10 bar - from 0.3		
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C) to +50 *	•
Weight	g	1840	1780	1780	1750
Conductance C	NI/min · bar	557		600	
Critical ratio b	bar/bar	0.23		0.24	
Flow rate at 6.3 bar Δp 0.5 bar	NI/min	1700		1800	
Flow rate at 6.3 bar Δp 1 bar	NI/min	2300		2500	
Conductance C on relief	NI/min · bar		7	42	
Critical ratio b on relief	bar/bar		0	.09	
Flow rate on free exhaust at 6.3 bar	NI/min	5400			
TRA/TRR at 6.3 bar	ms/ms		70,	/100	
Mounting position			In any	position	
Wall fixing screws				A5 screws	
Hand operator				ostable	
Coils		22 aı	nd 30 mm side, Ø 8 hole – I		tion, type B
				1.1 and VDE 0580 ■	
Class of protection				connector mounted	
Noise level			Max 95 dBA w	rith silenced relief	
Max coil ring nut torque	Nm				
CE marking		In accordance with Machinery Directive, Annexeo V ●			
Safety function		Cuts off the power supply and relieves the air circuit connected to port 2			
Type of sensor used		Inductive proximity sensors (refer to page C1.47 for sensor details)			
B10d		10 x 10 ⁶ cycles			
Category - EN ISO 13849				4	
PL - EN ISO 13849			Suitable for use in sai	fety circuits up to PL = e	

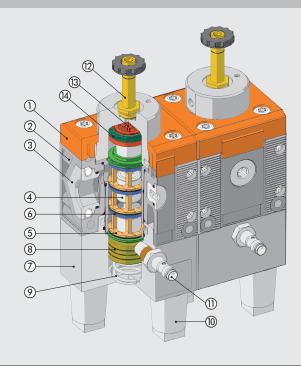
- * The dew point must be at least 10°C lower than the fluid temperature, to avoid ice formation
- To avoid malfunctions, we recommend using Metal Work accessories
- The declaration can be downloaded from www.metalwork.it

COMPONENTS - DOUBLE VALVE

- ① Technopolymer flange
- 1) Technopolymer flange
 2) Technopolymer body
 3) IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" 1"
 4) Chemically nickel-plated aluminum spool
 5) Technopolymer distance
 6) NBR gaskets
 7) Anodized aluminium end cap
 9) Aluminum spring quide

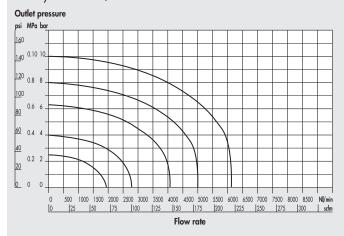
- Aluminum spring guide
 Special steel spring
 Silencers

- 1 Inductive sensor
- (2) Operator: Brass pipe Stainless steel core
- (13) Technopolymer piston
- (4) NBR piston gasket

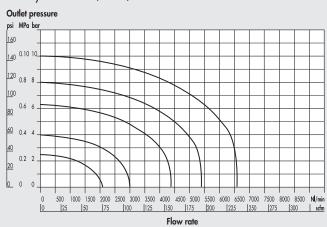


FLOW CHARTS ON DELIVERY - DOUBLE VALVE

V3V Syntesi® **SY2** 3/8"



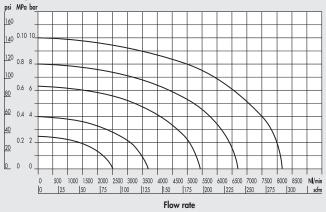
V3V Syntesi® **SY2** 1/2" - 3/4" - 1"



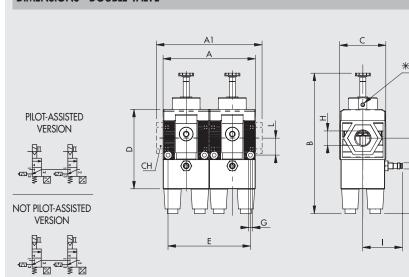
FLOW CHARTS ON RELIEF - DOUBLE VALVE

V3V Syntesi® **SY2** 3/8" - 1/2"- 3/4" - 1"

Outlet pressure



DIMENSIONS - DOUBLE VALVE



		SIZ	E 2			
H (threaded port)	3/8"	1/2"	3/4"	1"		
A		13	21			
A1	-	-	217	217		
В		18	36			
С		6	1			
CH	-	-	32	36		
D		10	05			
E		10	28			
F			7			
G	Hole for M5 screws					
1		5	3			
L		22	2.5			
M		3M	3x1			
* Pilot		N	15			



KEY TO CODES - DOUBLE VALVE

121 SYNTESI	2 SIZE	3 THREADED INPUT CONNECTION	W	72 TYPE	3 THREADED OUTPUT CONNECTION
56 Syntesi	2 Size 2	 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port 	W Shut-off-valve Safe Air®	32 Double solenoid pilot-assisted72 Double solenoid	 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

PURCHASE ORDER CODES HAVING A MORE FREQUENT USE - DOUBLE VALVE

N.B. Besides the below mentioned codes, you can order elements composed at your will according to the key to codes.

	Description
Syntesi _® SY2 SHU	JT-OFF-VALVES SAFE AIR®
5620W320	V3V SY2 elpn Safe Air® double pilot-assisted without bushin
5623W323	V3V SY2 3/8 elpn double pilot-assisted Safe Air®
5624W324	V3V SY2 1/2 elpn double pilot-assisted Safe Air®
5625W325	V3V SY2 3/4 elpn double pilot-assisted Safe Air®
5626W326	V3V SY2 1 elpn double pilot-assisted Safe Air®
	·
5620W720	V3V SY2 elpn Safe Air® double without bushing
5623W723	V3V SY2 3/8 elpn double Safe Air®
5624W724	V3V SY2 1/2 elpn double Safe Air®

5624W724 V3V SY2 3/8 elpn double Safe Air® 5624W725 V3V SY2 1/2 elpn double Safe Air® 5625W725 V3V SY2 3/4 elpn double Safe Air® 5626W726 V3V SY2 1 elpn double Safe Air®

NOTES

EXAMPLE OF A SAFETY CIRCUIT WITH A DOUBLE VALVE

Below is an example of a wiring diagram for controlling double valves SAFE AIR® a Metal Work using Pilz® components. Circuit components:

- a Pilz® PNOZ® mm 0.1p modular safety system
- an emergency stop button S1 (Pilz® PIT® es Set) linked to terminals T0-T1-I8-I9 of the PNOZ® mm 0.1p
- a Metal Work double solenoid valve SAFE AIR®, the 24 VDC coils of which are fed by terminals O0 (SV1) and O1 (SV2) of the PNOZ® mm 0.1p (the other terminals of the coils are OV); the valves' Hall-effect sensors are 24 VDC
- the sensor signals are relayed to terminals 16 (SV1) and 17 (SV2) of the PNOZ® mm 0.1p
- a start/reset button S2

Expected behaviour with the system operating correctly:

- system deactivated:
 - contacts O0 and O1 are OFF
 - the coils are de-energized
 - the sensors are ON (and hence signals to terminals 16 and 17)
 - if one of the sensors is OFF, the Pilz® module does not allow subsequent start/reset
- with the system activated via the start/reset button:
 - contacts O0 and O1 are ON
 - the coils are energized
 - the sensors are OFF (and hence signals to terminals 16 and 17)

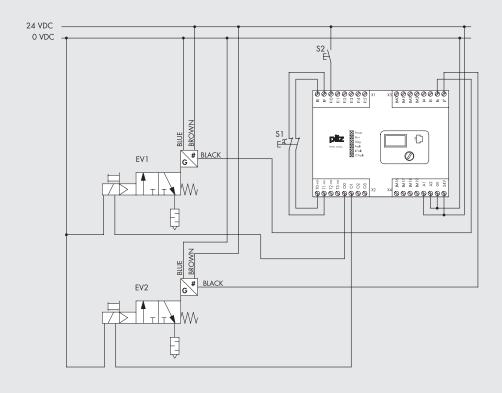
The PNOZ® mm 0.1p module is programmed so that:

- when either sensor is OFF, and the coils are de-energized, the module does not allow subsequent restarts.
- when the valves are energized, the 2 sensors must go off within the valve actuation time, otherwise the 2 valves are switched off again. The programme can be downloaded from www.metalwork.it (the licence for programming Pilz® modules is not included).

All the electrical connections between the various components must comply with the applicable safety regulations.

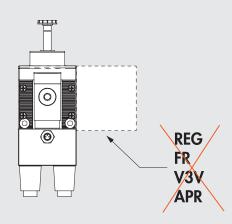
If the emergency button is operated at a frequency of 1 actuation per hour, the circuit activates a safety function with PL = e (calculations made with the PAScal programme by Pilz®).

Responsibility for final checking that PL lies with the person assembling the circuit.





$\textbf{ASSEMBLY DIAGRAM V3V Syntesi}_{\tiny{\texttt{\tiny \$}}} \textbf{ SERIES SAFE AIR}^{\tiny{\texttt{\$}}}$

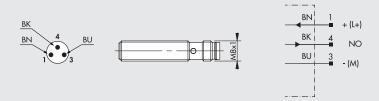


N.B. The **REG**, **FR**, **V3V**, **APR** elements **cannot be mounted** downstream the safety valves because if the elements are blocked, safety relief is not guaranteed.

SENSOR FOR V3V Syntesi_® SERIES SAFE AIR®

TECHNICAL DATA SENSOR					
Type of sensor		INDUCTIVE PROXIMITY			
Type of contact		N.O.			
Switch		PNP			
Supply voltage (Ub)	V	from 10 to 30			
Voltage dro (for Ia max)	V	≤ 2			
Hysteresis	%	from 3 to 20			
EMC		EN 60 947-5-2			
Continuous current la	mA	≤ 200			
No load current	mA	≤ 10			
Switching frequency	Hz	4000			
Over-voltage suppression		Yes			
Vibration and shock resistance		100 g /11 ms / 1000 cycles;; 150 g / 1 Mio cycles;			
		from 10 to 55 Hz / 1 mm / from 55 to 500 Hz / 15 g			
LED display		Yellow			
Degree of protection (EN 60529)		IP68			
Temperature range	°C	from -40 to +100			
Sensor capsule material		Stainless steel V2A, DIN 1.4305 / AISI 303			
Sensing face material		Plastic, LCP			
Protection class		III .			
Communication interface detail		Connector male M8, 3-pin			
MTTFd	years	1971			
UL-File-Nr		E.181493			
Certifications		CE OUD OF CE			
		CA CA			

WIRING DIAGRAM SENSOR



SUNTESI: ACCESSORIES



MOUNTING BRACKET FOR REG. AND FR KNOB



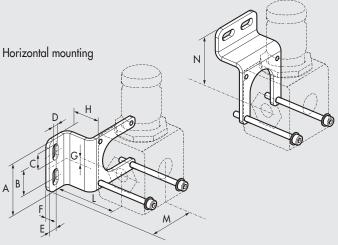
Code	Description
9200701	SF100 - BIT-ND 1/4 - SY1
9400701	SF200 - ND-3/8 1/2 - SY2

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Code	Α	В	С	D	E
9200701	32	20	12	5.5	14.2
9400701	42	40	12	5.5	15

MOUNTING BRACKET





Code	Description
9200716X	Mounting bracket SY1
9200717X	Mounting bracket SY2

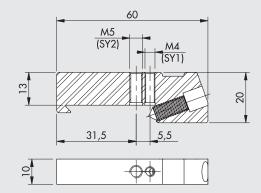
Note: Supplie complete with screws and washers.

Max torque 0.8 Nm for SY1 - Max torque 2.0 Nm for SY2

Codes to be used for units in the standard and the anti-corrosion version

Code	Α	В	С	D	E	F	G	Н	L	М	N
9200716X	41.5	20	12.7	5.5	7	3	0.8	25	43.8	46.5	47
9200717X	60	40	12.7	5.5	8	3	1.3	30	57.5	58.3	59.5

CONNECTION BRACKETS ON THE BAR (DIN EN50022)



Code Description

9200718X Connection brackets on DIN bar, SY1 - SY2
Note: 2 pieces per pack complete with screws and washers.

Max torque 0.8 Nm for SY1 - Max torque 2.0 Nm for SY2
Codes to be used for units in the standard and the anti-corrosion version

PRESSURE GAUGES



Code	Description
9700101	M 40 1/8 012
9700102	M 40 1/8 04
9800101	M 50 1/8 012
9800102	M 50 1/8 04
9900101	M 63 1/4 012



9700109	M 40×40 1/8 04
9700110	M 40x40 1/8 012

ADAPTERS FOR PRESSURE GAUGES (SY2)



Code	Description
9210005	1/4 adapter for 1/8 pressure gauge

COIL 22 mm FOR APR AND V3V ELPN



Code	Description	
W0215000151	Coil 22 Ø 8 BA 2W-12VDC	
W0215000101	Coil 22 Ø 8 BA 2W-24VDC	
W0215000111	Coil 22 Ø 8 BA 3.5VA-24VAC	
W0215000121	Coil 22 Ø 8 BA 3.5VA-110VAC	
W0215000131	Coil 22 Ø 8 BA 3.5VA-220VAC	
Electrical connection DIN 43650 B-IND		

"UL" AND "CSA" COILS 22 mm



Code	Description	
W0215000251	Coil 22 Ø 8 BA 2W-12VDC UR	
W0215000201	Coil 22 Ø 8 BA 2W-24VDC UR	
W0215000211	Coil 22 Ø 8 BA 3.5VA-24VAC UR	
W0215000221	Coil 22 Ø 8 BA 3.5VA-110VAC UR	
W0215000231	Coil 22 Ø 8 BA 3.5VA-220VAC UR	
Flectrical connection DIN 43650 R-IND		

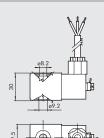
COIL 30 mm FOR APR AND V3V ELPN



Code	Description
W0210010100	Coil 30 Ø 8 2W-24VDC
W0210011100	Coil 30 Ø 8 3.5VA-24VAC 50/60 HZ
W0210012100	Coil 30 Ø 8 3.5VA-110VAC 50/60 HZ
W0210013100	Coil 30 Ø 8 3.5VA-220VAC 50/60 HZ

Electrical connection DIN 43650 - A

KIT FOR COIL EEXM



Code	Description
0227606913	Kit for coil 30 24 VDC EEXMT5 cable 3 m
0227606915	Kit for coil 30 24 VDC EEXMT5 cable 5 m
0227608013	Kit for coil 30 24 VAC EEXMT5 cable 3 m
0227608015	Kit for coil 30 24 VAC EEXMT5 cable 5 m
0227608023	Kit for coil 30 110 VAC EEXMT5 cable 3 m
0227608025	Kit for coil 30 110 VAC EEXMT5 cable 5 m
0227608033	Kit for coil 30 230 VAC EEXMT5 cable 3 m
0227608035	Kit for coil 30 230 VAC EEXMT5 cable 5 m

According to Atex 2014/34/EU rule,

| I 2G Ex mb IIC T4/T5 Gb
| I 2D Ex tb IIIC T130/T95 °C IP66 Db
| N.B.: Supplied complete with adapter for Ø8 mm sleeve

ELECTRIC CONNECTOR 22 mm FOR COILS DIN 43650 B-IND



 Code
 Description

 W0970510011
 Connector standard

 W0970510012
 Connector 22 LED 24V

 W0970510013
 Connector 22 LED 110V

 W0970510014
 Connector 22 LED 220V

 W0970510015
 Connector 22 LED VDR 24V

 W0970510016
 Connector 22 LED VDR 110V

 W0970510017
 Connector 22 LED VDR 220V

 W0970510070
 Connector 22 ATEX II 2 GD

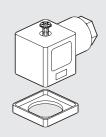
Code
W09

Description

W0970510051 Connector 22 LED 24VDC Energy Saving

For technical data see page **B1**.61

ELECTRIC CONNECTOR 30 mm FOR COILS DIN 43650-A



 Code
 Description

 W0970520033
 Connector 30 STD

 W0970520034
 Connector 30 LED 24V

 W0970520035
 Connector 30 LED 110V

 W0970520036
 Connector 30 LED 220V

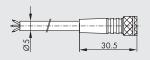
 W0970520037
 Connector 30 LED VDR 24V

 W0970520038
 Connector 30 LED VDR 110V

 W0970520039
 Connector 30 LED VDR 220V

 W0970520070
 Connector 30 ATEX II 2GD

M8 STRAIGHT CONNECTOR WITH CABLE FOR PRESSURE SWITCHES AND V3V SAFE AIR®

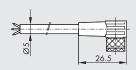




Code	Description
02400A0100	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 1 m
02400A0250	M8 female 3 PIN HIGH FLEX CL6 connector with cable $L=2.5\ m$
02400A0500	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 5 m
02400Δ1000	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 10 m

Very flexible cables, class 6 according to IEC 60228

M8 90° CONNECTOR WITH CABLE FOR V3V SAFE AIR®





Pin	Cable color
1	Brown
3	Blue
4	Black

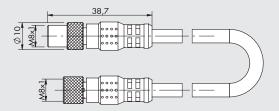
Brown
Blue
Black

Code	Description
02400B0100	M8 female 3 PIN 90 $^{\circ}$ HIGH FLEX CL6 connector with cable L = 1 m
02400B0250	M8 female 3 PIN 90 $^{\circ}$ HIGH FLEX CL6 connector with cable L = 2.5 m
02400B0500	M8 female 3 PIN 90 $^{\circ}$ HIGH FLEX CL6 connector with cable L = 5 m
02400B1000	M8 female 3 PIN 90 $^{\circ}$ HIGH FLEX CL6 connector with cable L = 10 m

Note: Very flexible cables, class 6 according to IEC 60228

M8 ADAPTER CABLE FOR CONNECTING THE PRESSURE SWITCH TO THE EB 80 E CM DIGITAL INPUTS MODULE





Code

Description

0240010501 M8-M, M8-F 3-pole adapter with cable L = 0.3 m

Note: Can be used to connect the pressure switch to the module of digital INPUT **501** of the EB 80 valves, to the additional M8 INPUT module of the CM valves and to the Profibus-DP IP67 M8 input. Contact type NO (Normally open).

M8F	M8M	Function
pin 1	pin 1	Power supply +
pin 3	pin 4	Signal NO
pin 4	pin 3	Disconnect

KIT COIL SIDE 22 IP65



 Code
 Description

 0222100100
 Kit for coils 22 - IP65

Improved IP65 protection, even after prolonged exposure to atmospheric agents.

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
9210001X	Kit IN OUT 1/8 SY1 anti-corrosion
9210002X	Kit IN OUT 1/4 SY1 anti-corrosion
9210003X	Kit IN OUT 3/8 SY1 anti-corrosion
9210011X	Kit IN OUT 3/8 SY2 anti-corrosion
9210012X	Kit IN OUT 1/2 SY2 anti-corrosion
9210013X	Kit IN OUT 3/4 SY2 anti-corrosion
9210014X	Kit IN OUT 1 SY2 anti-corrosion

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

CONNECTING NIPPLE KIT

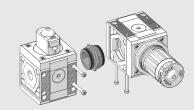


Code	Description
9210000	Connecting nipple kit SY1
9210010	Connecting nipple kit SY2
9210000X	Connecting nipple kit SY1
	anti-corrosion
9210010X	Connecting nipple kit SY2
	anti-corrosion

 $\begin{array}{l} \mbox{Max torque 0.4 Nm for SY1} \\ \mbox{Max torque 2.5 Nm for SY2} \end{array}$



90° CONNECTING ELEMENT KIT



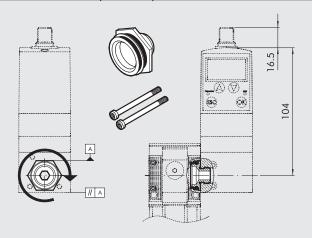
Code Description

9210009 90° SY1 connection element kit **9210019** 90° SY2 connection element kit

9210009X 90° anti-corrosion SY1 connection element kit 9210019X 90° anti-corrosion SY2 connection element kit

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

KIT CONNECTING REGTRONIC 1/4 (PAGE C6.12) AND GS REGULATOR (PAGE C6.2)



Code Description

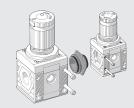
9210004 Adapter for regtronic 1/4 SY1

Max torque for screw, 0.4 Nm

Instructions

- Screw the connecting bushing onto the REGTRONIC 1/4 as far as it will go.
 Use sealant on the G1/4 thread to provide a further seal.
- Unscrew the bushing slightly until two surfaces of the hexagon are parallel to the body of REGTRONIC 1/4 (see diagram).
- 3) Insert the bushing into the Syntesi® unit.
- 4) Tighten the two self-tapping screws in the Syntesi® unit to a torque of 0.4 Nm max.

SY1 - SY2 SIZE ADAPTER



Code Description

9210006 SY1 - SY2 size adapter

9210006X SY1 - SY2 size adapter anti-corrosion

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

SY1 - SY2 KIT FOR CONNECTION TO FLUX 1 - 2



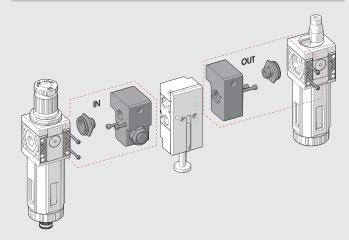
 Code
 Description

 900099A002
 Adapter FLUX 1 - SY1

 900099A003
 Adapter FLUX 2 - SY2

Max torque for screw, 0.4 Nm for SY1 Max torque for screw, 2.5 Nm for SY2 See page **C7**.18 for the assembly diagram.

SY1 - SY2 KIT FOR CONNECTION TO SERIE 70 SAFE AIR® VALVES



Code	Description
9210015	IN 1/4 SY1 block accessory
9210016	OUT 1/4 SY1 block accessory
9210022	IN 3/8 SY1 block accessory
9210023	OUT 3/8 SY1 block accessory
9210017	IN 3/8 SY2 block accessory
9210018	OUT 3/8 SY2 block accessory
9210020	IN 1/2 SY2 block accessory
9210021	OUT 1/2 SY2 block accessory
	·

Max torque for screw, 0.4 Nm for SY1 Max torque for screw, 2.5 Nm for SY2 $\,$

See page **B1**.155 for the assembly diagram.

BOWL DISASSEMBLY SPANNER



 Code
 Description

 9170601
 CS TF - TL BIT/SY1

 9210050
 CS TF - TL SY2

WALL-FIXING SCREW



 Code
 Description

 9210030
 M4 x 55 fixing screw SY1

 9210031
 M5 x 75 fixing screw SY2

Max torque 0.8 Nm for SY1 Max torque 2.0 Nm for SY2

PADLOCK



 Code
 Description

 9062401
 Padlock