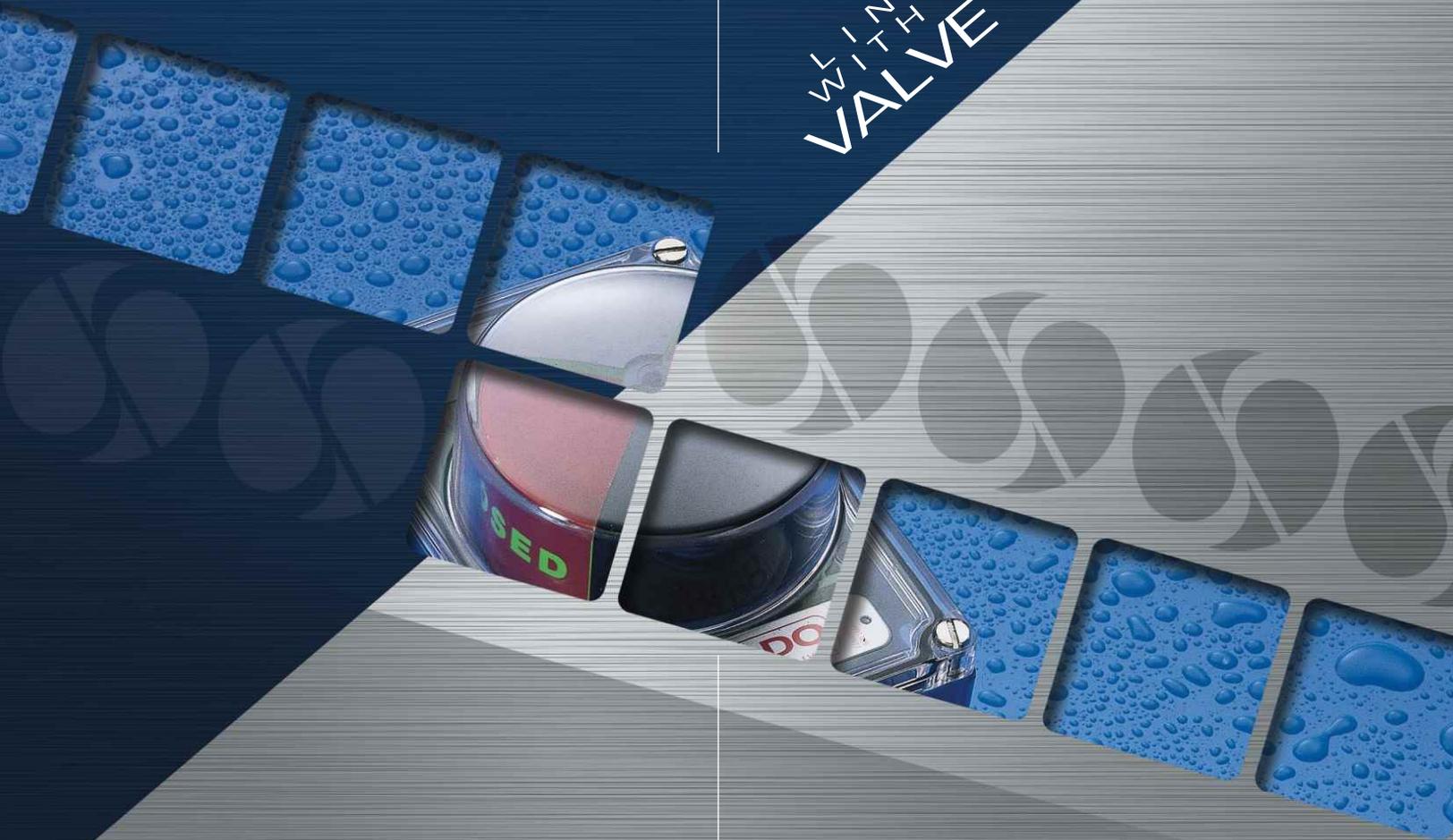




LINKING THE PROCESS
WITH THE CONTROL ROOMS
VALVE CONTROLS



LINE CARD

[IP65 WEATHER PROOF LIMIT SWITCH BOX]

The SOLDO IP65 limit switch box provides a compact design and the most economical solution for both visual and remote electrical indication of rotary valve/actuator position.

Integral NAMUR mounting legs provide additional cost saving by eliminating the need for a separate mounting bracket.

MODEL	INDICATOR	BODY	COVER	CABLE ENTRY
SP	Visual	Tecnopolymers	Polycarbonate	n° 1 M20x1.5 or n° 1 1/2"npt-f
SP_H	Visual 3D	Tecnopolymers	Polycarbonate	n° 1 M20x1.5 or n° 1 1/2"npt-f
SM	Visual	Aluminium	Polycarbonate	n° 2 M20x1.5 or n° 2 1/2"npt-f
SM_H	Visual 3D	Aluminium	Polycarbonate	n° 2 M20x1.5 or n° 2 1/2"npt-f

SWITCH OPTION SPDT and DPDT electromech. silver or gold plated

V3 type inductive proximity sensor



SP



SP_H



SM



SM_H

[IP67 WEATHER PROOF LIMIT SWITCH BOX]

The SOLDO IP 67 limit switch box provides a compact design and heavy duty housing for both visual and remote electrical indication of rotary valve/actuator position.

Aluminium body and different cover option provide a very durable limit switch package.

MODEL	INDICATOR	BODY	COVER	CABLE ENTRY
SB	Visual 3D	Aluminium	Polycarbonate	n° 2 M20x1.5 or n° 2 1/2"npt-f
SA	-	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SF	Visual 3D	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SC	Visual	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SS	Visual 3D	Stainless steel	Stainless steel	n° 2 M20x1.5 or n° 2 1/2"npt-f

SWITCH OPTION SPDT and DPDT electromech. silver or gold plated
SPDT and DPDT magnetic proximity switch
Cylindrical inductive proximity sensor

Slot type inductive proximity sensor
V3 type inductive proximity sensor
Pneumatic switch



SB



SC



SS



SF



SA

(ATEX 3G & 3D LIMIT SWITCH BOX)

The SOLDO ATEX 3G/3D limit switch box provides a cost-effective solution for ATEX 3G (zone 2) and 3D (zone 22) application.

Our limit switch box provides visual and remote electrical indication according to ATEX standards armonized without electronic barrier and explosion proof wiring Aluminium body and cover provide very durable construction for use in hostile environments



MODEL	INDICATOR	BODY	COVER	CABLE ENTRY
SA_3GD	-	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SF_3GD	Visual 3D	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SC_3GD	Visual aluminium	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SS_3GD	Visual 3D	Stainless steel	Stainless steel	n° 2 M20x1.5 or n° 2 1/2"npt-f

SWITCH OPTION SPDT and DPDT electromech. silver or gold plated (not available for 3G zone)
 SPDT and DPDT magnetic proximity switch Inductive proximity sensor



SC_3GD



SS_3GD



SF_3GD



SA_3GD

(ATEX INTRINSICALLY SAFE EEx i LIMIT SWITCH BOX)

The SOLDO Intrinsically safe EEx ia limit switch box provides a high tech solution for EEx ia systems located in hazardous areas.

Our limit switch box are complete with ATEX integral certified EEx ia IIC T6 covered housing and sensors that allows this units suitable for installation in zone 1, 2, 21 and 22.

Heavy duty construction and the wide range of housing materia allows these units suitable for installation on hostile enviroments like chemical, petrochemical and off-shore.



MODEL	INDICATOR	BODY	COVER	CABLE ENTRY
SIB	Visual 3D	Aluminium	Polycarbonate	n° 2 M20x1.5 or n° 2 1/2"npt-f
SIA	-	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SIF	Visual 3D	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SIC	Visual aluminium	Aluminium	Aluminium	n° 2 M20x1.5 or n° 2 1/2"npt-f
SIS	Visual 3D	Stainless steel	Stainless steel	n° 2 M20x1.5 or n° 2 1/2"npt-f

SWITCH OPTION Cylindrical inductive Namur proximity sensor Slot type inductive Namur proximity sensor
 V3 type inductive Namur proximity sensor



SIB



SIC



SIS



SIF



SIA

(ATEX ALLUMINIUM EXPLOSION PROOF Ex d LIMIT SWITCH BOX)

The SOLDO explosion proof aluminium limit switch boxes provide visual and electrical indication of valve/ actuator position.

These units has been tested and certified for use in low temperature application down to -40°C for SX and SH series and -55°C for SY series (depending on switch option)

Heavy duty construction make them suitable for installation in wide range of industrial environments including indoor and outdoor applications.



MODEL	INDICATOR	BODY & COVER	MARKING	CABLE ENTRY
SX	Visual 3D	Aluminium	Ex II 2 G/D Ex d IIB T4/T5/T6 Ex tD B21 T85/100/135°C	up to n°2 M20x1.5 plus n°1 M25x1.5 up to n°2 1/2" npt-f plus n°1 3/4" npt-f
SH	Visual 3D	Aluminium	Ex II 2 G/D Ex d IIB T4/T5/T6 Ex tD B21 T85/100/135°C	up to n°2 M20x1.5 plus n°1 M25x1.5 up to n°2 1/2" npt-f plus n°1 3/4" npt-f
SY	Visual 3D	Aluminium	Ex II 2 G/D Ex d IIC T4/T5/T6 Ex tD B21 T85/100/135°C	up to n°4 M20x1.5 or n°4 M25x1.5 up to n°4 1/2" npt-f or n°4 3/4" npt-f

SWITCH OPTION	SPDT and DPDT electromech. silver or gold plated	Slot type inductive proximity sensor
	SPDT and DPDT magnetic proximity switch	V3 type inductive proximity sensor
	Cylindrical inductive proximity sensor	



SX



SH



SY

(ATEX STAINLESS STEEL EXPLOSION PROOF Ex d LIMIT SWITCH BOX)

The SOLDO explosion proof stainless steel limit switch boxes provides visual and electrical indication of valve/ actuator position.

These units has been tested and certified for use in low temperature application down to -40°C for SJ series and -55°C for SW series (depending on switch option). As a standard material these units will be made in AISI316 and in AISI316L on request.

Heavy duty construction make them suitable for installation in wide range of hostile environments like chemical, petrolchemical and off-shore.



MODEL	INDICATOR	BODY & COVER	MARKING	CABLE ENTRY
SJ	-	Stainless steel	Ex II 2 G/D Ex d IIC T6 Ex II 2D T85°C	up to n°2 M20x1.5 or n°2 M25x1.5 up to n°2 1/2" npt-f or n°2 3/4" npt-f
SW	Visual 3D	Stainless steel	Ex II 2 G/D Ex d IIC T4/T5/T6 Ex tD B21 T85/100/135°C	up to n°4 M20x1.5 or n°4 M25x1.5 up to n°4 1/2" npt-f or n°4 3/4" npt-f

SWITCH OPTION	SPDT and DPDT electromech. silver or gold plated	Slot type inductive proximity sensor
	SPDT and DPDT magnetic proximity switch	V3 type inductive proximity sensor
	Cylindrical inductive proximity sensor	



SJ



SW

(UL LISTED NEMA 4 WEATHER PROOF LIMIT SWITCH BOX)

The SOLDO NEMA 4 limit switch box provides a compact design and heavy duty housing for both visual and remote electrical indication of rotary valve/actuator position.

Aluminium body and different cover options provide a very durable limit switch package.



MODEL	INDICATOR	BODY	COVER	CABLE ENTRY
CAB	Visual 3D	Aluminium	Polycarbonate	n° 2 1/2" npt-f
CAA	-	Aluminium	Aluminium	n° 2 1/2" npt-f
CAF	Visual 3D	Aluminium	Aluminium	n° 2 1/2" npt-f
CAC	Visual aluminium	Aluminium	Aluminium	n° 2 1/2" npt-f
CSF	Visual 3D	Stainless steel	Stainless steel	n° 2 1/2" npt-f

SWITCH OPTION SPDT and DPDT electromech. silver or gold plated V3 type inductive proximity sensor
 SPDT magnetic proximity switch

(UL LISTED NEMA 7&9 LIMIT SWITCH BOX)

The SOLDO NEMA 7&9 limit switch boxes provide visual and electrical indication of valve/actuator position conform to explosion proof norms.

These units have been tested and certified for use in low temperature application down to -40°C [-40°C] for XAB DIV. 2 and -25°C [-13°F] DIV. 1 (depending of switch option).

Heavy duty construction making them suitable for installation in wide range of industrial environments including indoor and outdoor applications.



MODEL	INDICATOR	BODY & COVER	PROTECTION METHOD	MARKING	CABLE ENTRY
CAB	Visual 3D	Aluminium & Polycarbonate	Non incensive ⁽¹⁾	Class I Division 2 Groups A,B,C,D Class II Division 2 Groups F, G	n° 2 1/2" npt-f
CAA	-	Aluminium	Non incensive ⁽¹⁾	Class I Division 2 Groups A,B,C,D Class II Division 2 Groups F, G	n° 2 1/2" npt-f
CAF	Visual 3D	Aluminium	Non incensive ⁽¹⁾	Class I Division 2 Groups A,B,C,D Class II Division 2 Groups F, G	n° 2 1/2" npt-f
CAC	Visual aluminium	Aluminium	Non incensive ⁽¹⁾	Class I Division 2 Groups A,B,C,D Class II Division 2 Groups F, G	n° 2 1/2" npt-f
CSF	Visual 3D	Stainless steel	Non incensive ⁽¹⁾	Class I Division 2 Groups A,B,C,D Class II Division 2 Groups F, G	n° 2 1/2" npt-f
XAB	Visual 3D	Aluminium	Explosion proof	Class I Division 1 Groups C,D Class II Division 1 Groups E, F, G Class I Division 2 Groups A,B,C,D Class II Division 2 Groups F, G	up to n° 2 1/2" npt-f plus n° 1 3/4" npt-f

SWITCH OPTION SPDT and DPDT electromech. silver or gold plated V3 type inductive proximity sensor
 SPDT and DPDT magnetic proximity switch

⁽¹⁾ Only with SPDT magnetic proximity switch



(OMEGA CONTROL UNIT)

The OMEGA is a compact limit switch control unit with three key features:

- visual and remote electrical indication of valve/actuator position
- internal solenoid valve(s) for valve control
- integral NAMUR mounting kit

These key features ensure the OMEGA is the cost effective solution for complete valve automation controls.



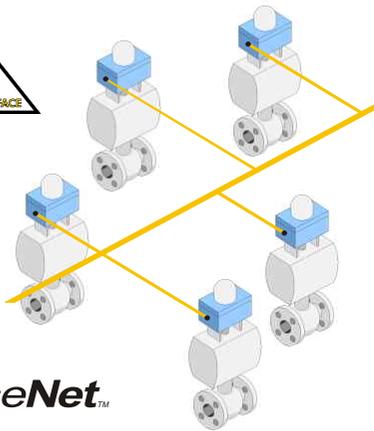
FEATURES

- Suitable for spring return and double acting actuator
- Low power 3 and 5 way solenoid valve (single or double coil)
- 3 Position control for spring return and double acting actuators
- Shock resistant housing
- Integrated universal mounting kit
- Threaded and VDI/VDE3847 pneumatic output connections

CLASS & MATERIALS

- Water proof IP67, NEMA 4, 4X design
- Atex Intrinsically safe EEx i and Non incandive EEx n options
- Aluminium body and cover die cromated and cathionic epoxy painted
- UV resistant and VO polycarbonate 3D indicator
- Stainless steel shaft and hardware

(BUS UNIT)



DeviceNet™

SOLDO Controls provide a wide range of solution with bus communication protocols.

AS-i and DeviceNet protocols provides the limit switch box and Omega control unit connection to control room with easy, fast and inexpensive wiring.

CLASS & FEATURES

- AS-i 2.0 - 2.1 - 3.0
- Device Net ISO 11898-24V
- Limit switch box available in plastic, aluminium and stainless steel housing
- Various connection options
- Optional factory pre-addressing

(BOLT SWITCH)

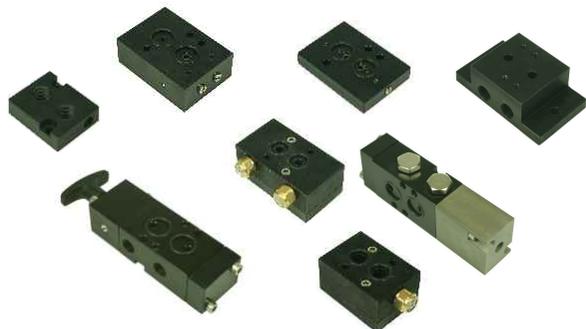


The BOLT switch is a threaded body proximity switch for remote electrical indication of linear and rotary valve/actuator position. These rugged switches are machined from solid billets of stainless steel or aluminium and are totally sealed. The BOLT is UL and ATEX certified and ideal for a wide range of environmental and hazardous area applications.

FEATURES, CLASS & MATERIALS

- Explosion proof Ex II 2 GD EEx d IIC T6
- Water proof IP68
- cUL_{us} Class I, Div 1, Groups A-D; Class II Div 2, Groups E-F; Class III, Div 1
- Nema 4, 4X, 7 & 9
- Stainless steel or aluminium housing
- SPDT or SPDT inert gas hermetically sealed contacts
- M20x1,5 or 1/2"NPT-F cable entry
- No lead seals required

(NAMUR PNEUMATIC COMPONENTS)



The SOLDO Namur Pneuematic accessories direct mount on Namur actuators. Both sides feature the Namur mounting pattern enabling "wafer" assembling additional components for both Namur 1/4" and 1/2"

COMPONENTS AVAILABLE

- NV62L Bypass valve
- NV42L Air Lock valve
- NF Flow Control regulator
- NX Quick exhaust valve
- NP1/4 and NB1 Adapter plate

MATERIALS

- Anodised aluminium body
- Stainless steel shaft and screws

(RD DECLUTCHABLE GEAR OVERRIDES)



The RD Declutchable Gear Override enables manual operation of pneumatic actuated valves. The heavy-duty construction and water proof housing make the RD series suitable for installation in a wide range of environments and hazardous area applications.

FEATURES & MATERIALS

- Mounting between valve and actuators
- Waterproof
- Output torque up to 3500 Nm (31,000 in-lbs)
- Independent stroke adjustment
- Cast iron housing
- Stainless steel input shaft and lever
- Atex Ex II 2 GD C T max 75°C on request

(DM SERIES SPRING CARTRIDGES)



DM10



DM20

The SOLDO spring return cartridges for manually operated valves return valves to their fail-safe position when the lever or hand wheel is released.

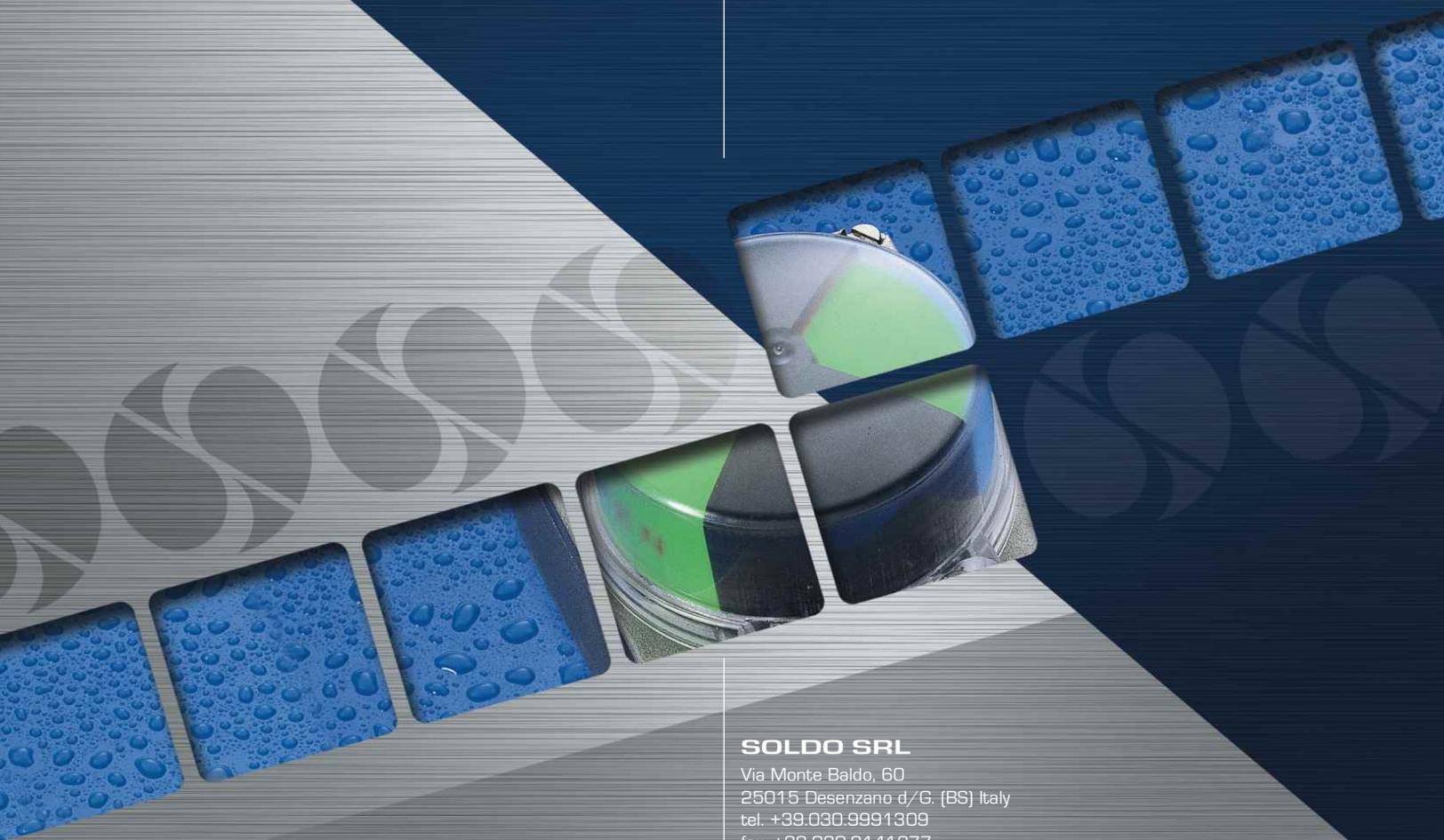
The rugged and compact design make our spring return cartridges suitable for a wide range of environments and hazardous areas

DM10 - CLASS & MATERIALS

- Hand wheel operator
- Output torque up to 30 Nm (265 in-lbs)
- Anodized aluminium body
- Nickel plated carbon steel shaft
- Stainless steel fasteners
- NBR seals
- ISO 5211 mounting pattern
- Atex Ex II 2GD C T max 75°C on request

DM20 - CLASS & MATERIALS

- Lever operator
- Output torque up to 45 Nm (400 in-lbs)
- Anodized aluminium body
- Nickel plated carbon steel shaft
- Stainless steel lever and fasteners
- NBR seals
- ISO 5211 mounting pattern
- Atex Ex II 2GD C T max 75°C on request



SOLDO SRL

Via Monte Baldo, 60
25015 Desenzano d/G. (BS) Italy
tel. +39.030.9991309
fax. +39.030.9141977
sales@soldo.net

SOLDO USA LLC

10176 International Blvd.
Cincinnati, Ohio 45426
tel. +1 (513) 860.5465
fax. +1 (513) 860.5464
usa@soldo.net

www.soldo.net