



SOLENOID VALVES

www.ode.it


CONSTANT PROCESS CONTROLS, A COMPUTERIZED NETWORK TO ENSURE SUPERIOR QUALITY AND EXCELLENCE.

ODE has been a leading company since 1960 in designing and manufacturing a complete line of solenoid valves, pumps and gear motors in order to respond to all our customer needs.

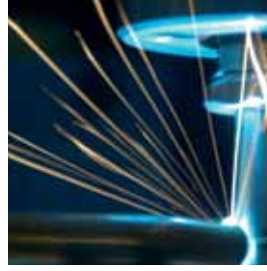
Our company is headquartered in Milan, Italy, with the manufacturing plant in Colico, a town close to the Swiss border. In 2010 we celebrated 50 years of design and manufacturing excellence in the solenoid valves industry.

Our general purpose and customized valves are designed to function very effectively in many applications including vending and coffee machines, carwash equipment, automation, medical, food and beverage, water management, chemical and many other general purpose applications. ODE's products are manufactured, assembled and tested in our factory in Italy using lean manufacturing techniques driven by Six Sigma quality practices.

The concept of quality has always been part of ODE culture and mission. ODE quality is based on the platform of process control, elimination of variability, a computerized network to guarantee the conformity of products, the recording of each step to ensure an effective analysis of data as well as a complete and efficient traceability of both components and finished products while at the same time remaining competitive in the marketplace. This contributed to obtain the ISO 9001, UL, CSA, UR, VDE, NSF, PED and ATEX certifications.



Argentina, Australia, Austria, Belgium, Brazil, Bulgaria, Chile, China, Croatia, Czech Republic, Denmark, Egypt, El Salvador, Finland, France, Netherlands, New Zealand, Norway, Pakistan, Perù, Poland, Portugal, San Marino, South Africa, Romania, Russia, Saudi Arabia, United Kingdom, Usa, Vietnam.



RESEARCH DEVELOPMENT

Research and the ability to innovate have always been one of the main features of our company policy.

PRODUCTION

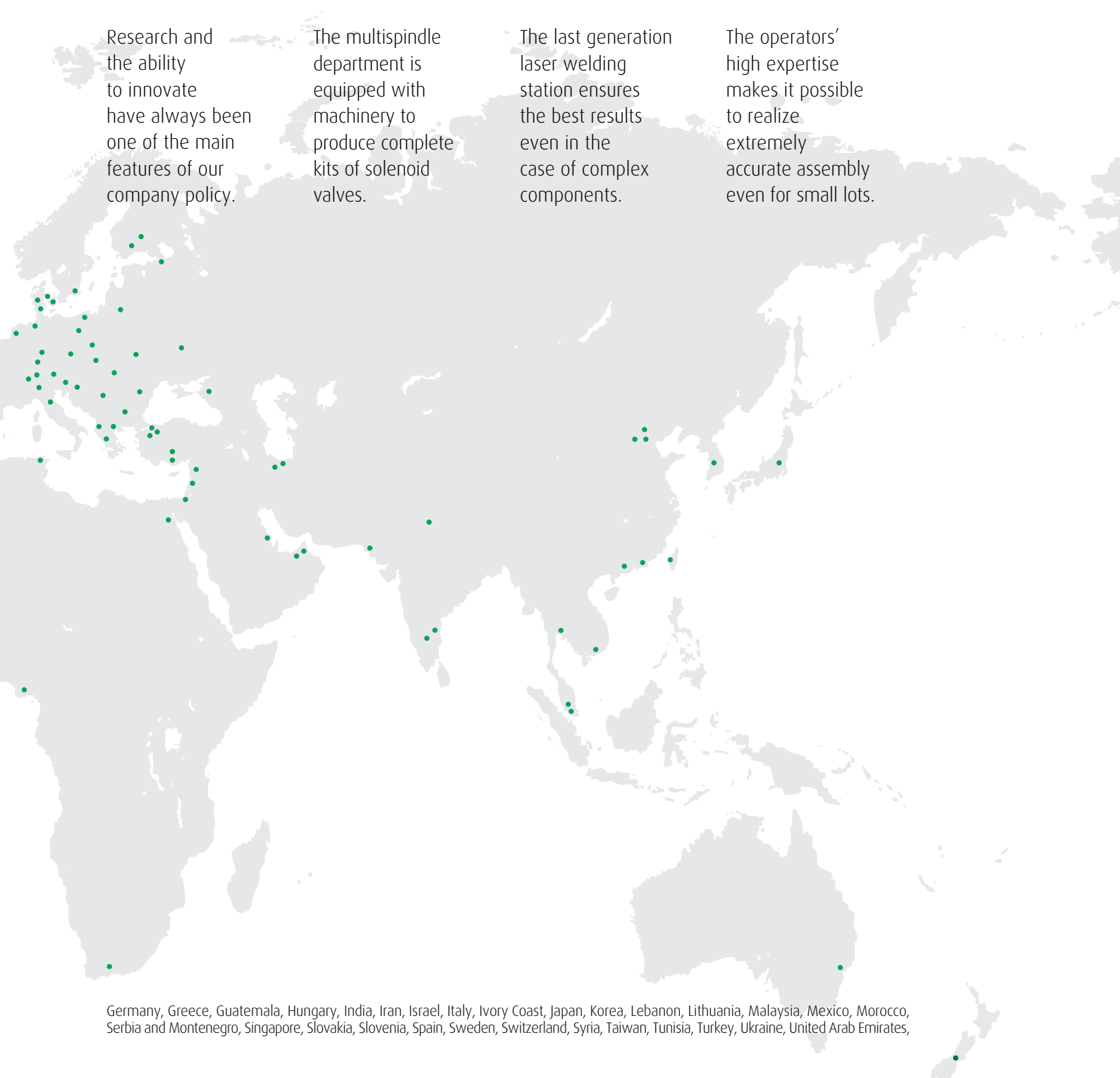
The multispindle department is equipped with machinery to produce complete kits of solenoid valves.

TECHNOLOGY

The last generation laser welding station ensures the best results even in the case of complex components.

ROBOTICS ASSEMBLY

The operators' high expertise makes it possible to realize extremely accurate assembly even for small lots.



Germany, Greece, Guatemala, Hungary, India, Iran, Israel, Italy, Ivory Coast, Japan, Korea, Lebanon, Lithuania, Malaysia, Mexico, Morocco, Serbia and Montenegro, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Taiwan, Tunisia, Turkey, Ukraine, United Arab Emirates,

SOLENOID VALVES DIRECT ACTING

21 JN SERIES

2/2 - 3/2 WAY N.C.



BODY MATERIAL	BRASS
SEAL MATERIAL	NBR - FKM
CONNECTION	G 1/8
PRESSURE	0-15 BAR

21 A SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	BRASS
SEAL MATERIAL	NBR-FKM-EPDM-PTFE-RUBY
CONNECTION	G 1/8 - G 1/4
PRESSURE	0-100 BAR

Suitable ATEX version for zone 1 and zone 2 G, D

21 A16 SERIES

2/2 WAY N.C.



BODY MATERIAL	BRASS
SEAL MATERIAL	NBR-FKM-EPDM-PTFE-RUBY
CONNECTION	G 1/8 - G 1/4
PRESSURE	0-100 BAR

21 T SERIES

2/2 WAY N.C. - N.C.



BODY MATERIAL	BRASS
SEAL MATERIAL	NBR - FKM
CONNECTION	G 1/8 - G 1/4
PRESSURE	0-30 BAR

31 A SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	BRASS
SEAL MATERIAL	NBR - FKM - RUBY
CONNECTION	FLANGED G 1/8 - G 1/4
PRESSURE	0-20 BAR

21 L SERIES

2/2 WAY N.C.



BODY MATERIAL	AISI 316
SEAL MATERIAL	FKM
CONNECTION	G 3/8 - G 1/4
PRESSURE	0-14 BAR

Suitable ATEX version for zone 1 and zone 2 G, D

SOLENOID VALVES INDIRECT ACTING

21 H SERIES

2/2 WAY N.C.



BODY MATERIAL	BRASS
SEAL MATERIAL	NBR - FKM
CONNECTION	G 3/8 - 3/4
PRESSURE	0,1-20 BAR

21 WA SERIES 21 W SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	BRASS
SEAL MATERIAL	NBR - FKM - EPDM
CONNECTION	G 3/8 - G2
PRESSURE	0,2-25 BAR

Suitable ATEX version for zone 1 and zone 2 G, D

21 PW SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	BRASS
SEAL MATERIAL	FKM - PTFE
CONNECTION	G 3/8 - G 1/2
PRESSURE	0,5-20 BAR

21 YW SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	BRASS
SEAL MATERIAL	PTFE
CONNECTION	G 1/2 - G 1
PRESSURE	0,9-10 BAR

4966 SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	BRASS
SEAL MATERIAL	PTB
CONNECTION	G 1/2
PRESSURE	3-100 BAR

21 X SERIES

2/2 WAY N.C.



BODY MATERIAL	AISI 316
SEAL MATERIAL	FKM - PTFE
CONNECTION	G 1/2 - G 1
PRESSURE	0,1-20 BAR

Suitable ATEX version for zone 1 and zone 2 G, D

SOLENOID VALVES

DIRECT ACTING
INDIRECT ACTING
COMBINED ACTING
SPECIAL PRODUCTS

ACCESSORIES
CUSTOMIZED MANIFOLDS SERIES

ABBREVIATIONS

N.O.
Normally Open

N.C.
Normally Closed

LEGEND



SOLENOID VALVES COMBINED ACTING

21 HT SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	BRASS
SEAL MATERIAL	FKM - NBR
CONNECTION	G 1/4 - G 1
PRESSURE	0-14 BAR

21 H SERIES

2/2 WAY N.C.



BODY MATERIAL	BRASS
SEAL MATERIAL	FKM - NBR - EPDM
CONNECTION	G 3/8 - G 1 1/2
PRESSURE	0-20 BAR

21 IH SERIES

2/2 WAY N.C.



BODY MATERIAL	AISI 316
SEAL MATERIAL	FKM
CONNECTION	G 3/8 - G 1 1/2
PRESSURE	0-16 BAR

ACCESSORIES

KIT SCARICO CONDENSA

2/2 WAY N.C.



BODY MATERIAL	BRASS
SEAL MATERIAL	FKM
CONNECTION	G 1/2
PRESSURE	0-40 BAR

CONDENSATE REMOVAL TIMER



VOLTAGE	24TO 240V AC/DC±10% 50/60HZ
ON TIME	0.5 TO 10sec.
OFF TIME	0.5 TO 45min.

CUSTOMIZED MANIFOLDS SERIES*

**2/2 - 3/2
WAY N.C. - N.O.**

*Manifolds for coffee and vending machine, automation.



BODY MATERIAL	BRASS - STAINLESS STEEL
SEAL MATERIAL	NBR-FKM-EPDM-PTFE-RUBY
CONNECTION	Flanged, G 1/8, G 1/4
PRESSURE	0-20 BAR

SOLENOID VALVES SPECIAL PRODUCTS

21 JP TECHNOPOLYMER SERIES

2/2 - 3/2 WAY N.C.



BODY MATERIAL	PPS
SEAL MATERIAL	FKM
CONNECTION	G 1/8
PRESSURE	0-15 BAR

21 Z PINCH SERIES

2/2 - 3/2 WAY
N.C. - N.O.



BODY MATERIAL	ALUMINIUM
SEAL MATERIAL	SILICON
CONNECTION	1,6 TO 10 mm
PRESSURE	180 TO 2.600 g

21 SBG SERIES

2/2 WAY N.C.
TOTAL SEPARATION



BODY MATERIAL	PEI
SEAL MATERIAL	EDPM
CONNECTION	7 mm
PRESSURE	0-1 BAR

21 K SERIES

2/2 WAY N.C.



BODY MATERIAL	PSU
SEAL MATERIAL	VMQ
CONNECTION	9 mm
PRESSURE	0-0,3 BAR

P SERIES

SOLENOID PUMP



BODY MATERIAL	PA
SEAL MATERIAL	NBR
CONNECTION	G 1/8
PRESSURE	20 BAR

21 IA SERIES

2/2 WAY N.C. - N.O.



BODY MATERIAL	AISI 316
SEAL MATERIAL	PTFE
CONNECTION	G 1/2 - G 2
PRESSURE	0-25 BAR

ISO 9001
Identifies a series of norms and guidelines developed by ISO to provide a system of process quality control, aimed at improving efficiency and effectiveness and customer satisfaction.



UL Certificate
The Component Mark UL "Recognised" is used for components that are part of a larger assembly or installation. The ODE solenoid valve range includes coils approved both UL and CSA for Canadian market.



NSF Certificate
The ODE range includes solenoid valve version NSF approved for alimentary fluid compatibility.



PED Certificate
PED (Pressure Equipment Directive) is applied to the design, manufacturing and conformance of pressure equipment.



VDE Certificate
The Verband Deutscher Elektrotechniker is the Association for Electrical, Electronic and Information Technologies and their related sciences, technologies and applications. The ODE solenoid valve range includes coils VDE certificated.



REACH Certificate
The new REACH regulation is aimed at regulating companies that handle more than 1 ton/year of chemical substances (raw material and end product, such as cosmetics, household products, etc...) in Europe. This regulation will have a significant impact on importers and manufacturers.



RoHS Directive
RoHS (Restriction of Hazardous Substances Directive) is the equivalent to the 2002/95/CE regulation, adopted by the European Community in February 2003. It is closely tied to the 2002/96/CE regulation regarding the disposal of electrical and electronic equipment (also called WEEE from Waste Electrical and Electronic Equipment). It regulates the storage, recycling and recovery of electrical equipment and is part of a law aimed at dealing with the disposal of obsolete electronic equipment.



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