

# Company Profile 2009

ENGLISH EDITION



ENOLGAS



Enolgas Bonomi was founded in 1960 as a family business. Initially it manufactured valves for the food, oil and gas industry. The company soon specialized in the production of cocks and valves for plumbing and construction, as well as for the natural gas distribution network. In 1970 it started production of ball valves for general purpose applications.

In 1991 Enolgas Bonomi Quality System obtained ISO 9001 certification for design, manufacturing and service. Every step of the full cycle production is controlled by the skilled staff of the company's Quality Assurance department.

Before being packed and delivered, all components and finished products must pass a series of tests to ensure that they are both perfectly manufactured and functional. They are then shipped all over the world and stocked by an international network of distributors, who by means of efficient logistic can make these goods available in every place of the globe.

Enolgas Bonomi S.p.A. offers its customers a comprehensive range of standard products, plus a skillful technology and staff devoted to researching and designing new products, to be developed in co-operation with qualified customers and industries.

Enolgas Bonomi S.p.A. holds several European and international product certifications and patents.



The company strives to maintain product excellence and innovation, collaborating with Universities departments by developing new industrial inventions and editing their R&D achievements.

Thanks to its long and continuously renovated experience in the field, today Enolgas Bonomi S.p.A. markets products which become the landmark on international marketplaces.

These products include a wide range of gas safety devices, as well as manually, pneumatically and electrically operated valves in brass, carbon steel and stainless steel, for plumbing installations, HVAC applications and industrial automations to be used with gas, water, air, oils and hydrocarbons.

The constant dedication to the improvement of the products and service, the cooperative relationship with customers and suppliers are the steady foundation towards future positive developments of Enolgas Bonomi S.p.A. to meet the challenges of the globalization.

The philosophy is to wisely develop new or existing materials to create innovative and performing products in an efficient way, yet preserving natural environment resources.





# GAS VALVES

## OMEGA Heavy line

Full bore.  
 Sizes: from 1/4" up to 4".  
 Approved to EN 331.  
 Anti-blow-out stem, seal guaranteed by two elastomer O-rings in the spindle.  
 Threads: UNI ISO 7/1 and NPT.  
 Further threads available on request.  
 Working pressure: for gas max. PN 5 (5 MOP).  
 For uses with other fluids, from PN 64 (1/4") to PN 16 (4").



Art. S.0257 OMEGA



Art. S.0271 OMEGA



Art. S.0286 OMEGA



Art. S.0259 OMEGA



Art. S.0265 OMEGA-GAS METER



Art. S.3269 OMEGA



## TOP•GAS - TOP•TEST Standard line

Full bore.  
 Sizes: from 1/2" up to 2".  
 Approved to EN 331.  
 Anti-blow-out stem, seal guaranteed by two elastomer O-rings in the spindle.  
 Threads: UNI ISO 7/1 and NPT.  
 Further threads available on request.  
 Working pressure: for gas max. PN 5 (5 MOP).  
 For uses with other fluids, from PN 40 (1/2") to PN 16 (2").  
 Also available in press version.



Art. S.1221 TOP•GAS



Art. S.1228 TOP•GAS



Art. S.1241 TOP•GAS



Art. S.3123 TOP•GAS



Art. S.1431 TOP•TEST



Art. S.1447 TOP•TEST



## BON•GAS Gas cocks

Suitable for connections of domestic appliances (pipes, kitchens and heating).  
 Sizes: from 1/4" up to 2".  
 Approved to EN 331.  
 Anti-blow-out stem, seal guaranteed by two elastomer O-rings in the spindle.  
 Threads: UNI ISO 7/1 and NPT.  
 Working pressure: for gas max. PN 5 (5 MOP).  
 For uses with other fluids, from PN 40 (1/2") to PN 16 (2").



Art. S.1370; Art. Z.170 BON•GAS



Art. S.1376 BON•GAS



Art. S.1377 BON•GAS



Art. S.1378 BON•GAS



Art. G.0329 BON•GAS



Art. G.0363 BON•GAS





ADVANTICA

# OMEGA•HTB

## Fire-safe to EN1775

Art. S.1101 OMEGA•HTB Art. S.1102 OMEGA•HTB

Full bore ball valve for gas, resistant to high temperature.  
Approved to European Standards EN 1775 and DIN 3537/1.  
Sizes: from 1/2" up to 1".  
Threads: UNI ISO 7/1.  
Working pressure: for gas max PN 5 (5 MOP).  
Working temperature: for gas -20°C +60°C



# BON•TAS

## Thermic security device



EN 331 approved.  
The thermic device complies with DIN VP 301.  
This thermic security device stops automatically the gas flow in case of fire, after a temperature of 100°C has been reached.  
Sizes: from 1/2" to 2".  
Threads: UNI ISO 7/1 and ISO 228.

Art. G.0256 TAS

Art. G.0261 BON-TAS

Art. G.0265 BON-TAS



# SECURO

## Push & Turn



Safety ball valve, approved to UNI-CIG 7129 and EN 331.  
This valve is opened by pushing and turning its lever of 90°C.  
Working pressure: for gas max PN 5 (5 MOP) for LPG max PN 20 (20 MOP).  
Threads: UNI ISO 7/1 and ISO 228.

Art. G.0420 SECURO

Art. G.0423 SECURO

Art. G.0427 SECURO



Art. G.0432 SECURO





# WATER VALVES

## LOGIC Heavy line



Full bore.  
 Sizes: from 1/4" up to 4".  
 Anti-blow-out stem, seal gaskets and seats in PTFE.  
 Threads: UNI ISO 7/1 and NPT.  
 Working pressure: from PN 64 (1/4") to PN 16 (4").  
 Temperature: from -20°C up to +150°C.  
 Uses: cold and hot water, compressed air, oils, non-corrosive fluids and hydrocarbons in general.

Art. S.0191 LOGIC



Art. S.0194 LOGIC



Art. S.0198 LOGIC



Art. S.0450 LOGIC



Art. S.0454 LOGIC



## TOPIC Professional line



Full bore.  
 Sizes: from 1/4" up to 2".  
 Anti-blow-out stem, seal guaranteed by two elastomer O-rings in the spindle.  
 Threads: UNI ISO 7/1 and NPT.  
 Working pressure: from PN 64 (1/4") to PN 16 (4").  
 Temperature: from -20°C up to +130°C.  
 Uses: cold and hot water, compressed air, oils, non-corrosive fluids and hydrocarbons in general.

Art. S.0201 TOPIC



Art. S.0204 TOPIC



Art. S.0208 TOPIC



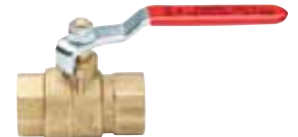
Art. S.0200 TOPIC



Art. S.1205 TOPIC



Art. S.1241 TOPIC



## TOP•TEST - MULTILAYER INCAS Pressure plug



**TOP•TEST** – Ball valve with connection for PE-pipe, pressure plug and drain cock.  
 Sizes: from 1/2" up to 1".  
 Working pressure: from PN 40 (1/2") to PN 30 (1").  
 Temperature: from -20°C up to +100°C.  
 Uses: cold and hot water, compressed air, oils, non-corrosive fluids and hydrocarbons in general.  
**MULTILAYER INCAS** – Ball valve for water, for built-in installations, with end connections for multilayer pipe.  
 Sizes: from 1/2" up to 1".  
 Working pressure: PN 25.  
 Temperature: -20°C +90°C.

Art. S.3131 TOP•TEST



Art. S.3137 TOP•TEST



Art. S.3141 TOP•TEST



Art. S.4160 INCAS



Art. S.4162 INCAS





# BASIC

## Standard line



Full bore.  
Sizes: from 1/4" up to 4".  
Anti-blow-out stem, seal gaskets and seats in PTFE.  
Threads: UNI ISO 228/1 and NPT.  
Working pressure: from PN 64 (1/4") to PN 16 (4").  
Temperature: from -20°C up to +150°C.  
Uses: cold and hot water, compressed air, oils, non-corrosive fluids and hydrocarbons in general.  
BASIC ball valve is also available as unleaded "green valve".

Art. S.0211 BASIC



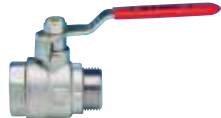
Art. S.0218 BASIC



Art. S.0211V BASIC  
GREEN VALVE



Art. S.3212 BASIC • SHORT



Art. S.3215 BASIC • SHORT



# BASIC

## Nut & Tail



Full bore.  
Sizes: from 1/2" up to 1" 1/4".  
Anti-blow-out stem, seal gaskets and seats in PTFE.  
Threads: UNI ISO 228/1 and NPT.  
Working pressure: PN 50 (from 1/2" up to 1" 1/4").  
Temperature: -20°C up to +150°C.  
Uses: cold and hot water, compressed air, oils, non-corrosive fluids and hydrocarbons in general.

Art. S.0226 BASIC



Art. S.0227 BASIC



Art. S.0228 BASIC



Art. S.3226 BASIC • SHORT



Art. S.3227 BASIC • SHORT



# BASIC

## Key-Locking Device



Safe, practical and quick locking system.  
Replace traditional locking by means of lead wire.  
Full bore.  
Sizes: from 1/2" up to 1".  
Threads: UNI ISO 228.  
Temperature: -20°C up to + 150°C.  
Uses: distribution installations and storage tanks for water or various liquids, which should be protected from public improper use.

Art. S.1361 BASIC



Art. S.1362 BASIC



Art. S.1364 BASIC





# BASIC•PRESS•JOINT



## Press•Joint•Valves

Full bore.  
 Sizes: from 1/2" up to 1".  
 Anti-blow-out stem, seal gaskets and seats in PTFE.  
 Threads: UNI ISO 228/1 and NPT.  
 Working pressure: PN 50 (1/2" - 3/4" - 1").  
 Temperature: from -20°C up to +130°C.  
 Uses: cold and hot water, compressed air, oils, non-corrosive fluids and hydrocarbons in general.

Art. S.1121



Art. S.1123



Art. S.1154



Art. S.1128



Art. S.1176



# BASIC•HT

## High temperature



**BASIC•HT SPECIAL VERSION** – BASIC HT SPECIAL ball valve, available in 3/4" and 1" sizes, is equipped with a thermal-insulated handle in aluminium and with an integrated thermometer, allowing the visual control of working temperature in the graduated handle.

**BASIC•HT STANDARD VERSION** – Ball valve for overheated water, resistant to high temperature.

Sizes: BASIC HT standard version from 1/2" up to 2".

Threads: UNI ISO 228/1.

Working pressure: see pressure/temperature diagram in our general catalogue.

Temperature: from -20°C up to +170°C.

Uses: cold, hot and overheated water, compressed air, oils and hydrocarbons in general.

Art. S.1301 BASIC•HT SPECIAL



Art. S.1302 BASIC•HT SPECIAL



Art. S.3084 BASIC•HT



Art. S.3085 BASIC•HT



# ATOMIC

## Compact line



Standard bore.

Sizes: from 1/2" up to 4".

Anti-blow-out stem, seal guaranteed by two elastomer O-rings in the spindle.

Threads: UNI ISO 228/1 and NPT.

Working pressure: from PN 40 (1/2") to PN 10 (4").

Temperature: from -10°C up to +150°C.

Uses: water, compressed air, oils, non-corrosive fluids.

Art. R.0311 ATOMIC



Art. R.0314 ATOMIC



Art. R.0315 ATOMIC



Art. R.0317 ATOMIC



Art. R.0318 ATOMIC







# EKO - BIBO - IDRA



## EKO - BIBO

Heavy and solid ball bibcocks for every application and for long-life use.  
 Sizes: from 1/2" to 1".  
 Uses: hot and cold water, compressed air, oil, non-corrosive fluids.  
 Threads: ISO 228/1.  
 Working pressure: PN16.  
 Temperature: from - 20°C to + 90°C.  
**EKO-LOGIC** – Ball valve version "Green Bib Cock" with lead wash treatment and available in different colours.  
**IDRA** – Garden hose ball valve with T-handle for water.

Art. S.0071 EKO-MATIC



Art. S.0082 EKO



Art. S.0110C14 EKO-LOGIC GREEN BIB-COCK



Art. S.0031 BIBO-LUX



Art. S.0130 IDRA



Art. H.0004 ANTI-FREEZE COCK



# CHECK VALVES



## VALSTOP - EUROSTOP

Solid check valve, high flow capacity, silent operation.  
 Sizes: from 1/4" to 4".  
 Threads: ISO 228/1.  
 Maximum pressure: from PN 40 (1/4") to PN 16 (4").  
**ROBEX-VT** – Combination of ball valve and non-return valve, with high flow capacity.  
 Sizes: from 1/2" to 2".

Art. H.0141 VALSTOP



Art. H.0161 EUROSTOP



Art. H.0202 SWING CHEK



Art. H.0400 Y-STAINER



Art. S.0400 ROBEX-VT



Art. H.0163 EUROSTOP



# AXO•PE - AXO•PE•METAL



Fittings for PE-pipes.  
 Assembly and disassembly are quick and simply performed by screwing and unscrewing the nut.  
 The rubber O-ring or conical gasket grants perfect tightness, as it sticks to the pipe walls.  
 Accurate and solid design to reach high and reliable performances.  
 Threads: ISO 228/1.  
 Working pressure: PN 16.  
 Sizes: from 1/2" x20 to 4" x110.  
**AXO•PE**  
 The pressure cone is in techno-polymer. The conical gasket is in elastomer.  
**AXO•PE•METAL**  
 The pressure cone and the thrust ring are made of brass.

Art. H.0300 AXO•PE



Art. H.0302 AXO•PE



Art. H.0304 AXO•PE



Art. H.0338 AXO•PE•METAL



Art. H.0346 AXO•PE•METAL



Art. H.0333 AXO•PE•METAL





# HVAC BALL VALVES

## SWIFT•O•MATIC QM



### Low torque valve

SWIFT•O•MATIC ball valve with quick mounting.  
Full bore, for connection with actuator.  
Extremely low torque, due to the patented sealing system used in the valves of the SWIFT-O-MATIC series.  
Available sizes: valves with electric actuator from 1/2" up to 1" 1/4.  
Threads: ISO 228, NPT.  
Actuators available with 24V or 230V voltage, in various voltages.  
Uses: water, air, hydrocarbons, non-corrosive fluids.

**Art. S.3041**  
SWIFT•O•MATIC QM



**Art. S.1044**  
SWIFT•O•MATIC QM



**Art. S.1045**  
SWIFT•O•MATIC QM



**Art. S.2245**  
SWIFT•O•MATIC QM



**Art. S.2264**  
SWIFT•O•MATIC QM



**Art. S.2265**  
SWIFT•O•MATIC QM



## SWIFT•O•MATIC QM



### Insulated valve

SWIFT•O•MATIC ball valve with quick mounting.  
Full bore, for connection with actuator.  
Extremely low torque, due to the patented sealing system used in the valves of the SWIFT-O-MATIC series.  
Available sizes: valves with electric actuator from 1/2" up to 1" 1/4.  
Threads: ISO 228, NPT.  
Actuators available with 24V or 230V voltage, in various voltages.  
Uses: water, air, hydrocarbons, non-corrosive fluids.

**Art. S.3045P**  
SWIFT•O•MATIC QM



**Art. S.3049P**  
SWIFT•O•MATIC QM



**Art. S.2265P**  
SWIFT•O•MATIC QM



**Art. S.2245P**  
SWIFT•O•MATIC QM



## ELECTRIC ACTUATORS

### Quick-mounting

Special electric actuators, showing Enolgas logo, designed and produced for the precise purpose of having an extremely safe working, in connection with SWIFT-O-MATIC valves. These valves have a particularly low torque, which guarantees long lasting performances.  
Electric actuators are available as electric servocontrols for civil/industrial applications, with on/off and proportional operation.

**Art. R.2827**  
ELECTRIC ACTUATOR



**Art. S.2912**  
PROPORTIONAL ACTUATOR



**Art. R.2818**  
E.A. WITH QUICK PLUG CONNECT



# MOTORIZED BALL VALVES



## BALL•O•MATIC ISO•TOP



### Heavy duty valves

#### 2 - WAYS

The BALL•O•MATIC ball valves, full bore, heavy duty series in brass, with ISO 5211 flange for actuators, are planned and designed to be easily and rapidly automated with electric or pneumatic actuators.

Working pressure: PN 40 (1/4") to PN 16 (3").

Uses: water, air, non-corrosive liquids.

Available sizes: from 1/4" to 3".

#### 3 - WAYS

The three-way ball valves are full bore, have 4 gaskets for tightness and the lever handle which can be positioned at 360°.

Threads: ISO 7/1.

Working pressure: from PN 40 (1/2") to PN 25 (2").

Uses: water, air, non-corrosive liquids.

Available sizes: from 1/4" to 2".

**Art. S.1021**  
BALL•O•MATIC



**Art. S.1070**  
BALL•O•MATIC 3-WAYS T-PORT



**Art. S.1071**  
BALL•O•MATIC 3-WAYS L-PORT



**Art. S.1073**  
BALL•O•MATIC 3-WAYS



**Art. S.1072**  
BALL•O•MATIC 3-WAYS HANDLE



## SWIFT•O•MATIC ISO•TOP



### Valves with actuators

Full bore ball valve, with ISO 5211 flange for electric or pneumatic actuator.

The connection between the valve and the actuator is very stable: stem, square and top-flange ISO 5211.

Available sizes: from 1/2" to 3".

Pressure: from PN 40 (1/2") to PN 16 (3").

Threaded connections: ISO 7/1 - NPT - ISO 228/1 - BSPT.

Certifications: PED 97/23/CE - Form H.

Temperature: from - 20°C to + 130°C (valve).

Temperature: from - 10°C to + 80°C (with actuator).

Uses: cold and hot water, air, fluids and non-corrosive hydrocarbons.

In order to receive information about the chemical compatibility please contact Enolgas.

**Art. S.1034**  
SWIFT•O•MATIC ISO•TOP



**Art. S.2051**  
SWIFT•O•MATIC ISO•TOP



**Art. S.2231**  
SWIFT•O•MATIC ISO•TOP



**Art. S.2301**  
SWIFT•O•MATIC ISO•TOP



**Art. S.2401**  
SWIFT•O•MATIC ISO•TOP



## CHARM PLATE DEVICE

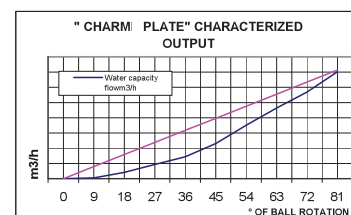
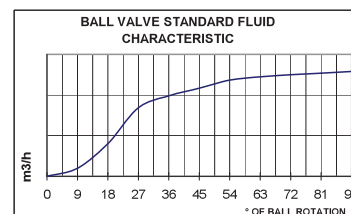
### Modulating control plate

The "Charm Plate", assembled downstream the ball, reverts the valve fluid characteristic diagram into a more performing one, suitable for the modulating control of cold and hot water.

Size: from 1/2" to 2"

KVS: from 3m<sup>3</sup>/h to 40m<sup>3</sup>/h

Temperature: from -5°C to +90°C





# INDUSTRIAL BALL VALVES

## TENAX - CORAL



### Cast series

Full bore ball valve in stainless steel.  
Triple sealing blow out-proof stem.  
PTFE/O-ring in elastomer. Spring washer.  
Sizes: from 1/4" to 2".  
Working pressures (available according to the model): from PN 100 (1/4") to PN 40 (4").  
Temperatures: from - 20°C to + 180°C.  
Uses: air, water, gas, mineral oils, hydrocarbons in general.

Art. A.0410 TENAX



Art. A.0420 SAPHIR



Art. A.0416 TENAX-WP



Art. A.1017 CORAL



## JADE - DIAMOND - TOPAZ



### Forged series

Full bore ball valves in carbon steel and stainless steel forged or AISI316.  
Triple sealing blow out-proof stem.  
PTFE/O-ring in elastomer. Spring washer.  
Fire safe, according to the following standards: BS 6755, API 6FA, API 607.  
Sizes: from DN 15 to DN 200.  
Working pressures: PN 6, PN 10, PN 16, PN 25, PN 40, PN 64.  
Temperatures: from - 20°C to + 180°C.  
Uses: air, water, gas, mineral oils and hydrocarbons in general.

Art. A.0450 JADE-CS



Art. A.0455 JADE-SS



Art. A.0470 JADE-SS



Art. A.0390 JADE 3W



Art. A.0485 DIAMOND-SS



Art. A.1007 TOPAZ-CS



## JADE - DIAMOND - TOPAZ



### Cast series

Full bore ball valves in carbon steel and stainless steel cast or AISI316, which allow to save money and guarantee further lightness for a quicker assembly on the installation.  
Triple sealing blow out-proof stem.  
PTFE/O-ring in elastomer. Spring washer.  
Fire safe, according to the following standards: BS 6755, API 6FA, API 607.  
Sizes: from DN 15 to DN 200.  
Working pressures: PN 6, PN 10, PN 16, PN 25, PN 40, PN 64.  
Temperatures: from - 20°C to + 180°C.  
Uses: air, water, gas, mineral oils and hydrocarbons in general.

A.0485F CAST DIAMOND



A.1006F CAST TOPAZ



A.0445 CAST JADE



A.0465 JACKET JADE



# THE METERING BALL VALVE



## BON•O•METER

### CONSTRUCTIVE CONCEPT

BON•O•METER valve is an innovative ball valve which integrates the normal functions of a on-off ball valve with the possibility of measuring the capacity (in terms of volume and mass), the density, the gauge pressure and the temperature of the fluid which goes through it.

The valve engineering meets the functional requirements typical of the steel ball valves, but at the same time measures the capacity, through a calibrated orifice integrated in the ball itself, in accordance with ISO 5167 standard.

BON•O•METER has two connections for Dp measurement, a static connection and a thermometer well.

The application field is the same as normal flanges used for standard measurement, with a measuring mistake around +/-2%.

The permanent loss of pressure is very low.

BON•O•METER can be measured and supplied with accessories according to the customer needs, as per the requested process data.

### USES AND ADVANTAGES

The valve can be installed and used as a normal on-off ball valve. When required it can measure the process data (capacity, temperature, pressure, etc.) at any time by connecting the secondary transmitters on the automated connections of the BON•O•METER.

The possibility of effecting the measurement of the main process data directly inside the valve allows to save money considerably. This is possible thanks to the reduction in the use of other metering devices, to the small overall dimensions and to the limited installation costs, because of the interchangeability of the orifice, which can be easily replaced, in accordance with the modifications of the process conditions.

### MATERIALS AND MODELS

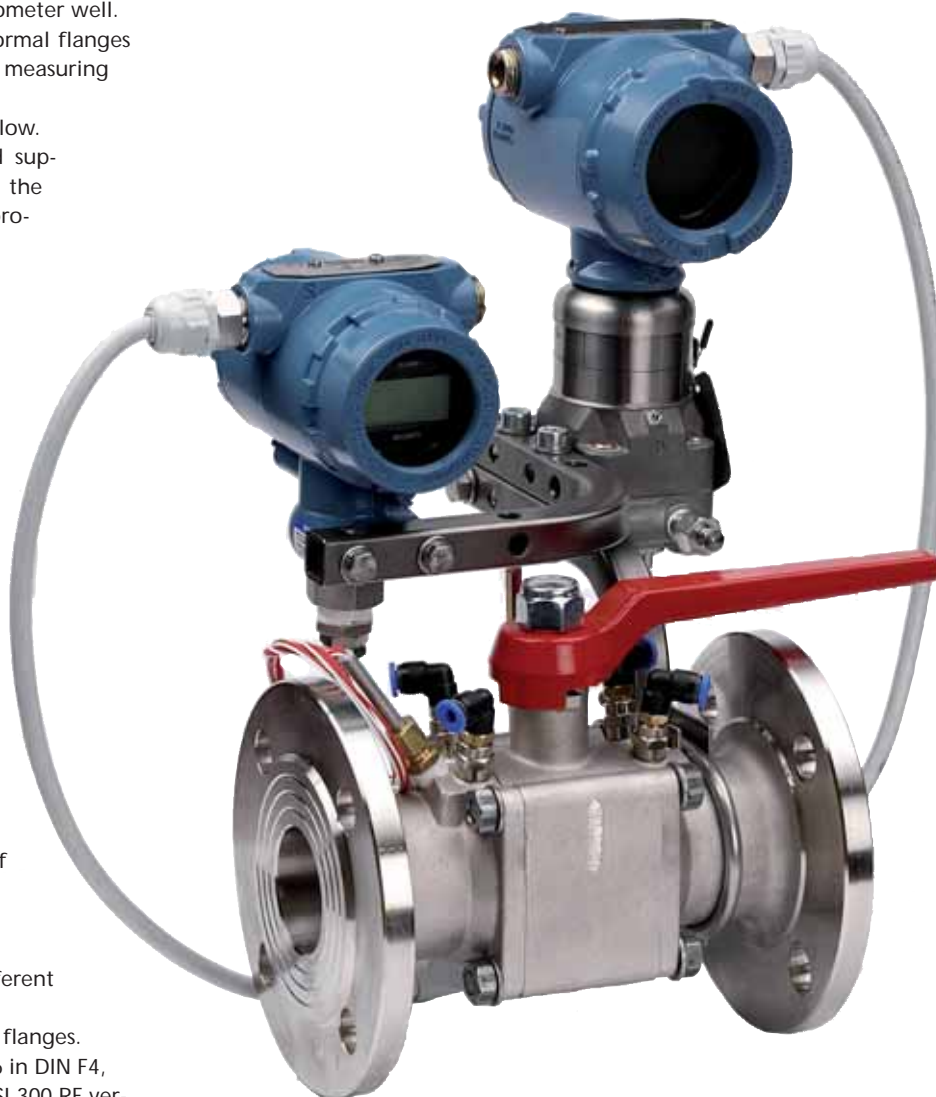
BON•O•METER can be offered in different versions, solutions and dimensions:

- three-way in brass with DIN F4 PN16 flanges.
- two-way, split body, A105 or AISI 316 in DIN F4, PN 16 and PN 40 or ANSI 150 RF, ANSI 300 RF versions.
- two-way, wafer, AISI 105 or AISI 316, in PN 16, PN 25 or PN 40 versions.
- Special materials, dimensions or solutions can be supplied on demand.

### APPLICATIONS

BON•O•METER can be used in all those applications where the measurement of the process data is required. By calibrating the orifice it is possible to measure the capacity of air, water, gas and non-aggressive fluids in general.

The valve is operated manually. By connecting the valve properly with a pneumatic or electric actuator it is possible to perform a feedback control, that is regulate the on-off of the valve in accordance with the process parameters (variations in temperature, capacity excess, etc.)





ENOLGAS LIFE STYLE ...



... THE SMILING COMPANY





#### COMPANY PROFILE

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ENOLGAS BONOMI S.p.A. • via Europa 227 • 25062 Concesio (Bs) • Italy  
tel. +39 030 2184311 • fax +39 030 2184333 • [www.enolgas.it](http://www.enolgas.it) • [enolgas@enolgas.it](mailto:enolgas@enolgas.it)



CYPRESS CREEK BUSINESS PARK, PHASE II - SUITE NO. 302 - 6555 NORTH POWERLINE RD - FT. LAUDERDALE, FL 33309 - USA  
phone +1 954 938 4171 - [www.enolgasusa.com](http://www.enolgasusa.com) - e-mail: [info@enolgasusa.com](mailto:info@enolgasusa.com)