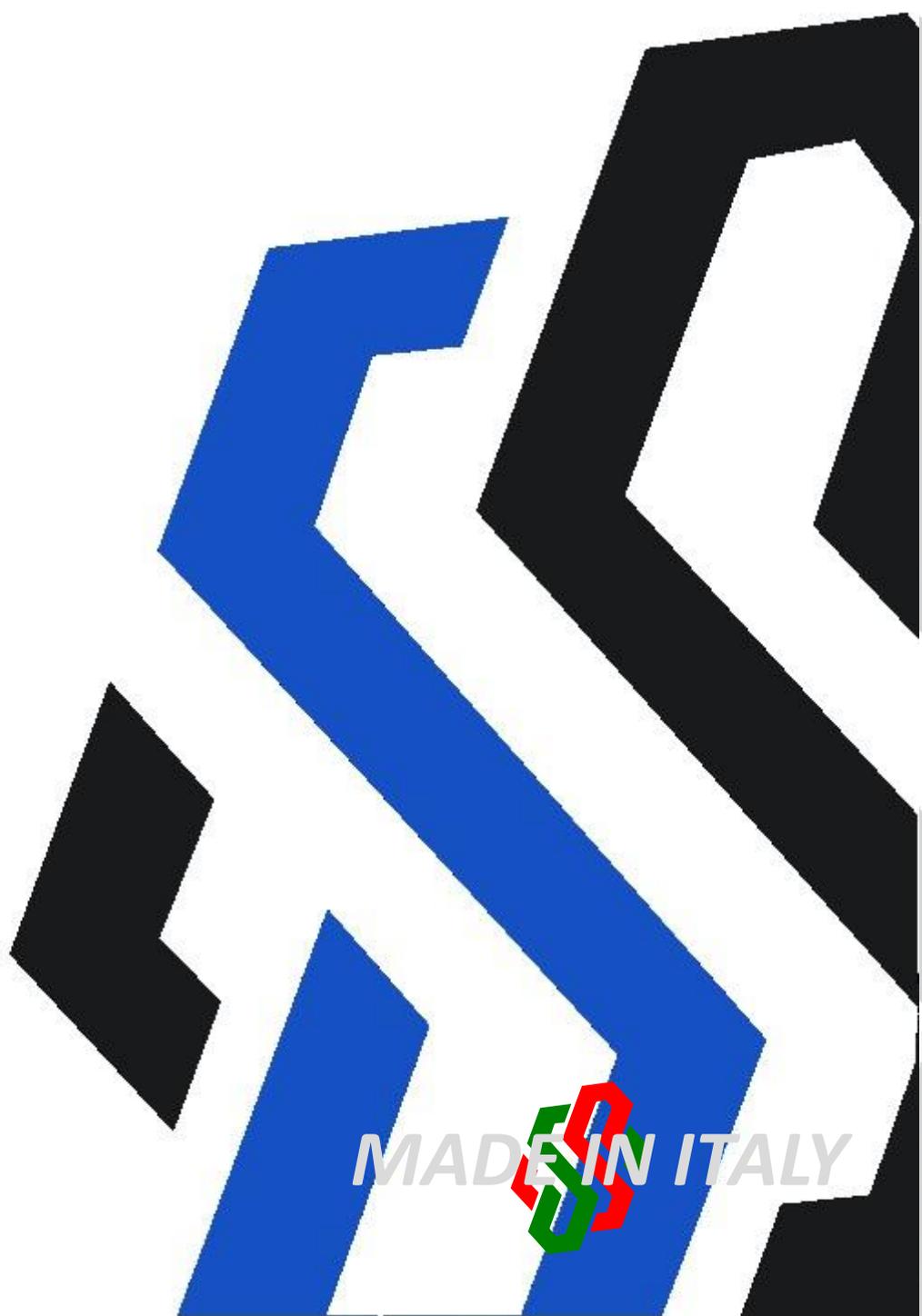


MEDICAL



MADE IN ITALY

PRESSURE REDUCING VALVE 25E WITH SNAP ADJUSTMENT AND RESIDUAL SYSTEM

Series RO.165



Reducing valve with snap adjustment 0-15 lt/min for oxygen therapy use, balanced piston reducer included, with adjustable hose holder and residual system. Available with integrated AFNOR/UNI socket.



SAFETY DEVICES

- Overpressure valve
- (on request: Non-return valve on load connection)
- Residual system (approx. 3 bar)
- Protective cover (accessory)
- Single unit test
- Sintered filter

SERVICE LIFE

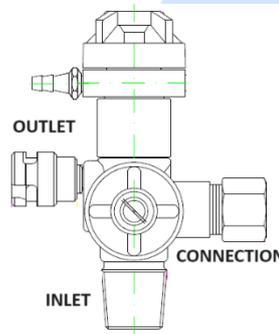
10 years from manufacture.

DOCUMENTATION

Declaration of Conformity and Instructions for Use.

TRACEABILITY

Serial number marked on the valve body.



REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/EU
 CE₀₁₂₃ Council Directive 93/42/EEC
 Class IIB

TECHNICAL STANDARDS OF REFERENCE

EN 10524-3

TECHNICAL SPECIFICATIONS

PERFORMANCE

Gas Medical Oxygen
 Inlet pressure 230 bar (on request 300 bar)
 Outlet pressure 4 bar

- Flow rate 0-15 lt/min
- Flow steps 1-1,5-2-3-4-6-9-12-15
- Flow rate 0-6 lit/min (a rich.)
- Flow steps 0,5-1-1,5-2-2,5-3-4-5-6

Accuracy range +/-10% o +/- 0,5 lt/min.
 Operating temperature -20° C +50

MATERIALS

Body CW617N-UNI EN 12165
 (Chrome plate brass)
 Piston Brass and P.A. 66

GAUGES

Full-scale 0-315 Bar
 Diameter 40 mm
 Fitting 1/8" G.C

CONNECTIONS

Inlet 25 E
 Outlet hose connector 6 mm
 Filling fitting UNI 11144/2 (med. oxygen)

DIMENSIONS AND WEIGHT

Dimension 100x125x80 mm.
 Weight 1 kg

ACCESSORY DEVICES

Protective cover (Cap, Universal) compliant with drop test EN 10524-3

Ring for cylinders, capacity 1-2-3 liters.

Stretcher hook.

Filling adapters (not required if non-return valve is not installed).

code	Description	Inlet	outlet	connection	flow capacity	Gas
RO.165.12297UNI	GROUP 25E O2 UNI 0-6 L/MIN PG	25E	PG	UNI	0-6L/m	O2
RO.165.12295UNIUNI	GROUP 25E O2 UNI 0-15 L/MIN PG	25E	UNI PG	UNI	0-15L/m	O2
RO.165.12295UNI	GROUP 25E O2 UNI 0-15 L/MIN PG	25E	PG	UNI	0-15L/m	O2
RO.165.12295DIN	GROUP 25E O2 DIN6 0-15 L/MIN PG	25E	PG	DIN9	0-15L/m	O2
RO.165.12295DIN6	GROUP 25E O2 DIN6 0-15 L/MIN PG	25E	PG	DIN6	0-15L/m	O2
RO.165.12295AF	GROUP 25E PRE UNI 0-15 L/MIN AFNOR PG	25E	AFNOR PG	UNI	0-15L/m	O2
RO.165.12295NF	GROUP 25E O2 NF 0-15 L/MIN PG	25E	PG	NF	0-15L/m	O2
RO.165.12295NFNF	GROUP 25E O2 NF 0-15 L/MIN PG AFNOR	25E	AFNOR PG	NF	0-15L/m	O2
RO.165.12296DIN	GROUP 25E O2 DIN 5/8" 0-30 L/MIN AFNOR	25E	AFNOR PG	DIN	0-30L/m	O2
RO.165.12296NF	GROUP 25E O2 NF 0-30 L/MIN PG	25E	AFNOR PG	NF	0-24 Lt	O2
RO.165.12296UNI	GROUP 25E O2 UNI 0-30 L/MIN AFNOR PG	25E	AFNOR PG	UNI	0-30L/m	O2
RO.165.12295USA	GROUP 3/4UNF PORT.ORIENT UNI 0-15 L/MIN DISS	3/4UNF	PG	UNI	0-15L/m	O2
CO.100.10639	ADAPTER FOR FUTURA RES O2-CO2 UNI	UNI 2				O2 CO2
CO.100.10655	ADAPTER FOR O2NF RESIDUAL GROUPS	NF B				O2
CO.100.18080	SEAL FOR GROUP HOSE PORT					

UNI or AFNOR DIN low pressure socket. Seal cap.

PRESSURE REDUCING VALVE 17E WITH SNAP ADJUSTMENT AND RESIDUAL SYSTEM

Series RO.165



Reducing valve with snap adjustment 0-15 lt/min for oxygen therapy use, balanced piston reducer included. Adjustable hose holder and residual system. Available with integrated AFNOR/UNI socket.



SAFETY DEVICES

Overpressure valve
(on request: Non-return valve on load connection)
Protective cover (accessory)
Single unit test
Sintered filter

SERVICE LIFE

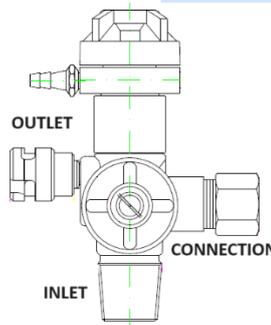
10 years from manufacture.

DOCUMENTATION

Declaration of Conformity and Instructions for Use.

TRACEABILITY

Serial number marked on the valve body.



REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/EU
CE0123 Council Directive 93/42/EEC
Class IIB

TECHNICAL STANDARDS OF REFERENCE

EN 10524-3

TECHNICAL SPECIFICATIONS

PERFORMANCE

Gas Medical Oxygen
Inlet pressure 230 bar (on request 300 bar)
Outlet pressure 4 bar

- Flow rate 0-15 lt/min
- Flow steps 1-1,5-2-3-4-6-9-12-15
- Flow rate 0-6 lit/min (a rich.)
- Flow steps 0,5-1-1,5-2-2,5-3-4-5-6

Operating temperature -20° C +50

MATERIALS

Body CW617N-UNI EN 12165
(Chrome plate brass)
Piston Brass and P.A. 66

GAUGES

Full-scale 0-315 Bar
Precision class 2.5
Diameter 40 mm
Fitting 1/8" G.C.

CONNECTIONS

Inlet 17E
Outlet Hose connector 6 mm
Filling fitting UNI 11144/2 (med. oxygen)

DIMENSIONS AND WEIGHT

Dimension 100x125x120 mm.
Weight 1,2 kg

ACCESSORY DEVICES

Protective cover (Cap, Universal)
Ring for cylinders capacity 1-2-3 lt. Hook for stretcher.
Filling adapters (not required if non-return valve is not installed).
UNI or AFNOR low pressure socket. Seal cap.

code	Description	Inlet	outlet	connection	flow capacity	Gas
RO.165.12294UNI	GROUP 17E O2 UNI 0-15 L/MIN PG	17E	PG	UNI	0-15L/m	O2
RO.165.12294UNIUNI	GROUP 17E O2 UNI 0-15 L/MIN PG CONNECTOR	17E	UNI PG	UNI	0-15L/m	O2
RO.165.12294NF	GROUP 17E O2 NF 0-15 L/MIN PG	17E	PG	NF	0-15L/m	O2
RO.165.12294AF	GROUP 17E O2 UNI 0-15 L/MINCONNECT AFNOR	17E	AFNOR PG	UNI	0-15L/m	O2
RO.165.12294DIN	GROUP 17E O2 DIN 0-15 L/MIN PG	17E	PG	DIN	0-15L/m	O2
RO.165.12294DIN6	GROUP 17E O2 DIN6 0-15 L/MIN PG	17E	PG	DIN6	0-15L/m	O2
RO.165.12298UNI	GROUP 17E O2 UNI P/UNI 0-15 L/MIN PG	17E	UNI PG	UNI	0-30L/m	O2
RO.165.12298NF	GROUP 17E O2 UNI 0-15 L/MIN AFNOR PG	17E	AFNOR PG	UNI	0-30L/m	O2
RO.165.12298AF	GROUP 17E O2 AFNOR 0-15 L/MIN AFNOR PG	17E	AFNOR PG	NF	0-30L/m	O2
RO.165.12293UNI	GROUP 17E O2 UNI 0-30 L/MIN PG	17E	PG	UNI	0-30L/m	O2
CO.100.10639	ADAPTER FOR FUTURA RES O2-CO2 UNI	UNI 2				O2 CO2
CO.100.10655	ADAPTER FOR O2NF RESIDUAL GROUPS	NF B				O2
CO.100.18080	SEAL FOR GROUP HOSE PORT					

PROTECTIVE COVERS FOR SNAP-ON REDUCING VALVE 25E

Series CO.100



Protective cover that protects the valve group, ensuring maximum safety during transport and in case of cylinder falls. For cylinders with a capacity of 0,5-14 lt, supplied with ring.

TECHNICAL STANDARDS OF REFERENCE
EN ISO 11117

TECHNICAL SPECIFICATIONS

MATERIAL

Body material Nylon

CONNECTIONS

Connection to the cylinder via 5 stainless steel screws

ADAPTABILITY

To all cylinders with a capacity of 0.5 -14 liters

VERSIONS

Universal black cap cover. Customizable color and label.

SAFETY

Drop Test: EN ISO 11117

ACCESSORY DEVICES

Stretcher hook

ABS ring

code	Description	Material	Size
CO.100.18065NEW	COVER FOR OPENEW GROUP BLACK	Nylon	alt 165mm ø140mm
2107A	RING KNOB FOR TULIPANO PROTECTIVE CAP ØTAILORED		
2107	RING KNOB Ø24 FOR TULIPANO PROTECTIVE CAP		

PROTECTIVE COVER FOR SNAP-ON REDUCING VALVE 17E

Series CO.100.18120 – 18121



Series CO.100.18125- 18126



Protective cover that protects the valve group, ensuring maximum safety during transport and in case of cylinder falls.

This cover is for cylinders with a capacity of 0,5 -7 lt and it can be with or without collar.



TECHNICAL REFERENCE STANDARDS

EN ISO 11117

TECHNICAL FEATURES

MATERIALS

Body Nylon

CONNECTION

To the cylinder via 5 stainless steel screws

DIMENSIONS and WEIGHT

Dimension Ø 118 mm

Height 150 mm

ADAPTABILITY

For all cylinders with capacity between 0,5 – 14.

VERSIONS

White or black goblet cover.
Customizable color and label.

SAFETY

Drop Test: EN ISO 11117

ACCESSORY DEVICES

Stretcher hook
ABS ring
Seal

code	Description
CO.100.18120	BLACK GOBLET COVER SNAP-ON GROUP PORT.OR
CO.100.18121	WHITE GOBLET COVER SNAP-ON GROUP Ø 140 PORT. ORIE
CO.100.18125	WHITE GOBLET COVER Ø.118 SNAP-ON GROUP
CO.100.18126	BLACK GOBLET COVER Ø.118 SNAP-ON GROUP
CO.100.18130	STRETCHER HOOK FOR TRIMMING GROUP COVER
CO.100.10639	ADAPTER FOR FUTURA RES O2-CO2 UNI
CO.100.18080	SEAL FOR GROUP HOSE PORT



code	Description
CO.400.18021	MASK FOR OXYGEN THERAPY W/MMA00002 TUBE

MEDICAL GAS CYLINDERS WITH SNAP ADJUSTMENT REDUCING VALVE AND PROTECTION CAP

Series BO.100



Cylinders for domestic, hospital and emergency room oxygen therapy use. They are supplied with a snap-on reduction valve and suitable protection covers.



REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/EU
D.M. transport 03/01/1990

TECHNICAL STANDARDS OF REFERENCE

EN ISO 9809-1

TECHNICAL FEATURES

PERFORMANCE

Gas Medical oxygen
Test operating pressure 200/300 bar

MATERIALS

Body Steel 35 CrMo4 (UNI 7845)

CAPACITY

Liters 0,5 – 14

CONNECTIONS

Outlet 17 E / 25 E

ACCESSORIES

Stainless steel disks for medical use
Reducing valve with snap adjustment protective cap cover

OPTIONAL EXTRAS

Hard case (cylinders 5, 7 lt)
Transport case (cylinders 1, 2, 3 lt)
Protective goblet cover
Plug

DOCUMENTATION

Declaration of Conformity and instructions for Use

code	Description	Inlet	outlet	flow capacity	Ø outside	Liter s	Gas
BO.110.15026	O2 THERAP 0.5L CYLINDER W/GROUP W/CAP	17E	PG 15	0-15L/m	70 mm	0,5	O2
BO.110.15026NF	O2 THERAP 0.5L CYLINDER W/AFNOR GROUP W/CAP	17E	PG 15	0-15L/m	70 mm	0,5	O2
BO.110.15021	O2 THERAP 1L CYLINDER W/GROUP W/CAP	17E	PG 15	0-15L/m	102 mm	1,0	O2
BO.110.15021NF	O2 THERAP 1L CYLINDER NF W/GROUP W/CAP	17E	PG 15	0-15L/m	102 mm	1,0	O2
BO.110.15022	O2 THERAP 2L CYLINDER W/GROUP W/CAP	25E	PG 15	0-15L/m	114 mm	2,0	O2
BO.110.15022NF	O2 THERAP 2L CYLINDER NF W/GROUP W/CAP	25E	PG 15	0-15L/m	114 mm	2,0	O2
BO.110.15023	O2 THERAP 3L CYLINDER W/GROUP W/CAP	25E	PG 15	0-15L/m	114 mm	3,0	O2
BO.110.15023NF	O2 THERAP 3L CYLINDER NF W/GROUP W/CAP	25E	PG 15	0-15L/m	114 mm	3,0	O2
BO.110.15025	O2 THERAP 5L CYLINDER W/GROUP W/CAP	25E	PG 15	0-15L/m	140 mm	5,0	O2
BO.110.15025NF	O2 THERAP 5L CYLINDER NF W/GR W/CAP	25E	PG 15	0-15L/m	140 mm	5,0	O2
BO.110.15027	O2 THERAP 7L CYLINDER W/GROUP W/CAP	25E	PG 15	0-15L/m	140 mm	7,0	O2
BO.110.15027NF	O2 THERAP 7L CYLINDER W/AFNOR GROUP W/CAP	25E	PG 15	0-15L/m	140 mm	7,0	O2
BO.110.15018	O2 THERAP 10L CYLINDER W/GROUP W/CAP	25E	PG 15	0-15L/m	140 mm	10,0	O2
BO.110.15020	O2 THERAP 14L CYLINDER W/GROUP W/CAP	25E	PG 15	0-15L/m	168 mm	14,0	O2
BO.110.15020NF	O2 THERAP 14L CYLINDER W/AFNOR W/GROUP W/CAP	25E	PG 15	0-15L/m	168 mm	14,0	O2

code	Description	Inlet	Gas
CO.400.18021	MASK FOR OXYGEN THERAPY W/MMA00002 TUBE	PG	O2

MEDICAL GAS CYLINDERS WITH VALVE AND ABS PROTECTIVE CAP

Series BO.100



Cylinders for domestic, hospital and emergency room oxygen therapy use. They are supplied including a snap-on reduction valve and suitable protection covers



REFERENCE LEGISLATIVE STANDARDS

π1370

T-PED Directive 2010/35/EU

D.M. transport 03/01/1990

TECHINICAL STANDARDS OF REFERENCE

EN ISO 9809-1

TECHNICAL FEATURES

PERFORMANCE

Gas Medical oxygen
Test operating pressure 200/300 bar

MATERIALS

Body Steel 35 CrMo4 (UNI 7845)

CAPACITY

Litres 0,5 – 50

CONNECTIONS

Outlet 17 E / 25 E

ACCESSORIES

Stainless steel disks for medical use

OPTIONAL EXTRAS

Hard case (cylinders 5, 7 lt)
Transport bag (cylinders 1, 2, 3 lt)
High residual pressure valve mod. FUTURA
Pin Index high pressure valve
Goblet protective cover
Universal protection cover

DOCUMENTATION

Declaration of conformity and instructions for use

code	Description	Inlet	outlet	Material	Ø outside	Liters	Gas
BO.100.15029	O2 CYLINDER 1A10 0.5L W/VALVE UNI	17E	UNI	ALL	70 mm	0,5	O2
BO.100.15031	O2 CYLINDER 1A10 1L W/VALVE UNI	17E	UNI	ALL	102 mm	1,0	O2
BO.100.15032	O2 CYLINDER 1A10 2L W/VALVE UNI	25E	UNI	ACC	114 mm	2,0	O2
BO.100.15033	O2 CYLINDER 1A10 3L W/VALVE UNI	25E	UNI	ACC	114 mm	3,0	O2
BO.100.15035	O2 CYLINDER 1A10 5L W/VALVE UNI	25E	UNI	ACC	140 mm	5,0	O2
BO.100.15037	O2 CYLINDER 1A10 7L W/VALVE UNI	25E	UNI	ACC	140 mm	7,0	O2
BO.100.15038	O2 CYLINDER 1A10 10L W/VALVE UNI	25E	UNI	ACC	140 mm	10,0	O2
BO.100.15039	O2 CYLINDER 1A10 14L W/VALVE UNI	25E	UNI	ACC	168 mm	14,0	O2
BO.100.15040	O2 CYLINDER 1A10 20L W/VALVE UNI	25E	UNI	ACC	203 mm	20,0	O2
BO.100.15041	O2 CYLINDER 1A10 40L W/VALVE UNI	25E	UNI	ACC	203 mm	40,0	O2

To be combined with RO.200 RO.300



ACCESSORIES FOR CYLINDERS

HARD CASE FOR TRANSPORTING CYLINDERS



code	Description
CO.100.18041	CASE FOR CYLINDER L.5

SOFT CASE FOR TRANSPORTING CYLINDERS



Code	Description
CO.100.18040	CYLINDER CASE L.1-2-
CO.100.18043	BAG L.3 length 65 cm

STAINLESS STEEL DISKS FOR MEDICAL USE



code	Description
2105	SST(INOX) DISC CONE SHAPE FOR MEDICAL DEV
2106	SST(INOX) DISC FLAT FOR MEDICAL DEV
2106F	SST(INOX) DISC FLAT FOR MEDICAL DEV W/PIERCE
2106FP	SST(INOX) DISC FLAT FOR MEDICAL DEV W/PIERCE AND VAT NUMBER
2106P	SST(INOX) DISC FLAT FOR MEDICAL DEV W/VAT NUMBER

SEAL CAP FOR DOSING VALVE GROUP



code	Description
CO.100.18080	SEAL FOR GROUP HOSE PORT

REDUCER FOR OXYGEN THERAPY WITH HOSE OUTLET

WITH PRE-CALIBRATED FLOW TO 6L

Series RO.200

UNI SHORT SIDE CONNECTION



Extremely compact pressure reducer with balanced piston with fixed flow rate of 6 l/min.

LATERAL CONNECTION

Connection DIN



AFNOR



PIN INDEX



REFERENCE LEGISLATIVE STANDARDS

CE0123 Council Directive 93/42/EEC
Class IIB

TECHNICAL STANDARDS OF REFERENCE

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas Medical Oxygen
Inlet pressure 230 bar
Flow 6 l/min
Operating temperature -20° C +50° C

MATERIALS

Body Chrome-plated brass
Reducing piston Brass and P.A.6.6

GAUGE

Full scale 0-315 Bar
Accuracy class 2.5
Diameter 40 mm.
Fitting 1/8" G.C

CONNECTIONS

Outlet Hose outlet 6 mm.
Inlet UNI 11144/2, AFNOR, DIN, PIN INDEX, BS, CGA H12X1

DIMENSION AND WEIGHT

Dimension 125 x 100 mm.
Weight 0,560 kg

SAFETY DEVICES

Overpressure valve
Single unit test
Sinter filter

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of conformity and Instructions for Use

code	Description	Inlet	outlet	flow capacity	Gas
RO.200.12246UNI	SECOR O2 UNI REDUCER 0-6 L/min	UNI 2	PG	6L/m	O2
RO.200.12246NF	SECOR O2 NF REDUCER 0-6 L/min	NF B	PG	6L/m	O2
RO.200.12246DIN	SECOR O2 REDUCER DIN 0-6 L/min	DIN	PG	6L/m	O2
RO.200.12246PIN	SECOR O2 PIN-INDEX REDUCER 0-6 L/min	PIN INDEX	PG	6L/m	O2
RO.200.12246BS	SECOR O2 BS REDUCER 0-6 L/min	BS 3	PG	6L/m	O2
RO.200.12246CGA	SECOR O2 CGA REDUCER 0-6 L/min	CGA	PG	6L/m	O2
RO.200.12246H12X1	SECOR O2 REDUCER 12X1 0-6 L/min	H12X1	PG	6L/m	O2
1649B	HOSE HOLDER FEM. 9/16 UNF HOLE 0,40 MM 6L/MIN			6L/m	
1649C	HOSE HOLDER FEM. 9/16 UNF HOLE 0,47 MM 9L/MIN			9L/m	
1649D	HOSE HOLDER FEM. 9/16 UNF HOLE 0,60 MM 15L/MIN			12L/m	

PRECALIBRATED OXYGEN THERAPY REDUCER WITH 4 BAR HOSE CONNECTION

Series RO.200

LATERAL CONNECTION

LATERAL CONNECTION



IN-LINE CONNECTION



Extremely compact piston pressure reducer with fixed calibration, suitable for powering ambulance systems or medical equipment.

DIN connection 95MM



AFNOR Connection



REFERENCE LEGISLATIVE STANDARDS

CE0123 Council Directive 93/42/EEC
Class IIB

TECHNICAL STANDARDS OF REFERENCE

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas Medical Oxygen
Inlet pressure 230 bar
Outlet pressure Precalibrated max 4 bar
Operating temperature -20° C +50° C
Flow 70 lt/min

MATERIALS

Body Chrome-plated brass
Reducing piston Brass and PA66

GAUGE

Full scale 0-315 Bar
Accuracy class 2.5
Diameter 40 mm.
Fitting 1/8" G.C

CONNECTIONS

Outlet connection Hose outlet 6 mm.
Inlet connection UNI 11144/2

DIMENSION

Dimension 125 x 100 mm.
Weight 0,560 kg

SAFETY DEVICES

Overpressure valve
Single unit test

Sinter filter

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use

code	Description	Inlet	outlet	flow capacity	Gas
RO.200.12241UNI	SECOR O2 UNI PG REDUCER	UNI	PG	18,2	O2
RO.200.12241NF	SECOR O2 REDUCER NF PG	NF B	PG	18,2	O2
RO.200.12241DIN	SECOR O2 REDUCER DIN PG	DIN	PG	18,2	O2
RO.200.12241DIN6	SECOR O2 REDUCER DIN6 PG	DIN6	PG	18,2	O2
RO.200.12241PIN	SECOR O2 PIN INDEX PG REDUCER	PIN	PG	18,2	O2

IN-LINE CONNECTION

code	Description	Inlet	outlet	flow capacity	Gas
RO.200.12242UNI	SECOR 5BAR O2 UNI PG IN LINE REDUCER	UNI	PG	18,2	O2
RO.200.12242DIN	SECOR REDUCER 5BAR O2 DIN PG IN LINE	DIN	PG	18,2	O2
RO.200.12242DIN6	SECOR REDUCER 5BAR O2 DIN6 PG IN LINE	DIN6	PG	18,2	O2
RO.200.12242NF	SECOR 5BAR O2 NF PG IN LINE REDUCER	NF B	PG	18,2	O2
RO.200.12242PIN	SECOR REDUCER 5BAR O2 PIN PG IN LINE	PIN INDEX	PG	18,2	O2

PRECALIBRATED OXYGEN THERAPY REDUCER WITH 4 BAR AFNOR CONNECTION

Series RO.202

SIDE CONNECTION



IN-LINE CONNECTION



OUTLET AFNOR SOCKET

Extremely compact and balanced piston pressure reducer with fixed calibration, suitable for powering ambulance systems or medical equipment.

PIN CONNECTION OUTLET AFNOR



DIN Connection



AFNOR Connection



REFERENCE LEGISLATIVE STANDARDS

CE0123

Council Directive 93/42/EEC

Class

IIB

TECHNICAL STANDARDS OF REFERENCE

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas	Medical Oxygen
Inlet pressure	230 bar
Outlet pressure	Precalibrated max 4 bar
Operating temperature	-20° C +50° C
Flow	70 lt/min

MATERIALS

Body	Chrome-plated brass
Reducing piston	Brass and P.A.6.6

GAUGE

Full scale	0-315 Bar
Accuracy class	2.5
Diameter	40 mm.
Fitting	1/8" G.C

CONNECTIONS

Outlet connection	Hose outlet 6 mm.
Inlet connection	UNI 11144/2

DIMENSION

Dimension	125 x 100 mm.
Weight	0,560 kg

SAFETY DEVICES

- Overpressure valve
- Single unit test
- Sinter filter

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use.

LATERAL CONNECTION

code	Description	Inlet	outlet	max outlet pressure	flow capacity	Gas
RO.202.12241UNI	PRE-CALIBRATED REDUCER 4bar O2 DIN + AFN	UNI	AFNOR	8,0	18,2	O2
RO.202.12241NF	PRE-CALIBRATED REDUCER 4bar O2 AFNO+ AFN	NF B	AFNOR	8,0	18,2	O2
RO.202.12241DIN	PRE-CALIBRATED REDUCER 4bar O2 DIN6 + AF	DIN	AFNOR	8,0	18,2	O2
RO.202.12241DIN6	PRE-CALIBRATED REDUCER 4bar O2 DIN6 + AF	DIN6	AFNOR	8,0	18,2	O2

IN-LINE CONNECTION

code	Description	Inlet	outlet	max outlet pressure	flow capacity	Gas
RO.202.12242BS	PRE-CALIBRATED REDUCER 4bar O2 BS AFNOR IN LINE	BS 3	AFNOR	8,0	18,2	O2
RO.202.12242DIN	PRE-CALIBRATED REDUCER 4bar O2 DIN AFNOR IN LINE	DIN	AFNOR	8,0	18,2	O2
RO.202.12242DIN6	PRE-CALIBRATED REDUCER 4bar O2 DIN6 AFNOR IN LINE	DIN6	AFNOR	8,0	18,2	O2
RO.202.12242NF	PRE-CALIBRATED REDUCER 4bar O2 NF AFNOR IN LINE	NF B	AFNOR	8,0	18,2	O2
RO.202.12242PIN	PRE-CALIBRATED REDUCER 4bar O2PIN AFNOR IN LINE	PIN INDEX	AFNOR	8,0	18,2	O2
RO.202.12242UNI	PRE-CALIBRATED REDUCER 4bar O2 UNI AFNOR IN LINE	UNI	AFNOR	8,0	18,2	O2

REDUCER FOR MEDICAL GASES, BREATHABLE AIR, NITROUS OXIDE AND CARBON DIOXIDE

Series RO.200

OUTLET PG RO.200



AFNOR CONNECTION
RO.202



OUTLET DIN PG RO.201



PIN INDEX INLET, DIN OUTLET
RO203



Extremely compact pressure reducer with balanced piston and fixed calibration suitable for powering ambulance systems or medical equipment.

LEGISLATIVE STANDARDS OF REFERENCE

CE0123 Council Directive 93/42/EEC
Class IIB

TECHNICAL STANDARDS OF REFERENCE

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gases: Nitrogen, Breathing air, Nitrous oxide, Carbon dioxide

Inlet pressure 230 bar

Outlet pressure Precalibrated max 4 bar

Operating temperature -20° C +50° C

Flow 70 L min

MATERIALS

Body Chrome-plated brass

Reducing piston Brass and PA6.6

GAUGE

Full scale 0-315 Bar

Accuracy class 2.5

Diameter 40 mm.

Fitting 1/8" G.C

CONNECTIONS

Outlet connection Hose outlet 6 mm.

Inlet connection UNI 11144/2

DIMENSION and WEIGHT

Dimension 125 x 100 mm.

Weight 0,560 kg

SAFETY DEVICES

Overpressure valve

Single unit test

Sinter filter

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of conformity and instructions for use.

LATERAL CONNECTION

code	Description	Inlet	outlet	flow capacity	Gas
RO.200.12245DIN	SECOR AIR REDUCER DIN MEDICAL	DIN	PG	18,2	ARIA
RO.200.12245PIN	SECOR AIR REDUCER PIN INDEX	PIN	PG	18,2	ARIA
RO.200.12245UNI	SECOR AIR REDUCER UNI	UNI	PG	18,2	ARIA
RO.200.12245NF	SECOR AIR REDUCER NF	NF B	PG	18,2	ARIA
RO.200.12248DIN	SECOR CO2 REDUCER MED DIN PG	DIN	PG	18,2	CO2 MED
RO.200.12248PIN	SECOR CO2 REDUCER MED PIN PG	PIN	PG	18,2	CO2 MED
RO.200.12248UNI	SECOR CO2 REDUCER MED UNI PG	UNI	PG	18,2	CO2 MED
RO.200.12248NF	SECOR CO2 REDUCER MED NF PG	AFNOR	PG	18,2	CO2 MED
RO.200.12247DIN	Pre-calibr. reducer at 4 for N2O att. Short act. DIN	DIN	PG	18,2	N2O
RO.200.12247PIN	Pre-calib reducer at 4 for N2O conn. Short conn.PIN	PIN	PG	18,2	N2O
RO.200.12247UNI	SECOR N2O REDUCER UNI	UNI	PG	18,2	N2O
RO.200.12247NF	Pre-calib reducer at 4 for N2O conn. Short conn.AFNOR	AFNOR G	PG	18,2	N2O

BALANCED PISTON REDUCER WITH FLOW METER 0-6L 0-15L

Series RO.200



Balanced piston pressure reducer with continuous flow regulation.



SAFETY DEVICES

Overpressure valve
Single unit test
Sinter filter

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use.

REFERENCE LEGISLATIVE STANDARDS

CE0123 Council Directive 93/42/EEC
Class IIB

TECHICAL STANDARDS OF REFERENCE

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas	Medical Oxygen
Inlet pressure	230 bar (upon request 300 bar)
Outlet pressure	4 bar
Flow rate	0-6 lit/min
Flow rate	0-15 lit/min
Precision	+10% o +- 0,5 lt/min
Operating temperature	-20° C +50°C

MATERIALS

Body	Chrome-plated brass
Reducing piston	Brass and P.A.6.6
Column	Polyacrylic shock-proof

GAUGE

Full scale	0-315 Bar
Accuracy class	2.5
Diameter	50 mm.
Connection	1/8" G.C

CONNECTIONS

Outlet	9/16" with nut and hose holder 6 mm
Inlet	UNI 11144/2, BS, DIN, AFNOR, PIN UK, CGA

DIMENSIONS AND WEIGHT

Dimension	170 x 100 x 110 mm.
Weight	1,0 kg

code	Description	Inlet	outlet	flow capacity	Gas
RO.200.12215	REDUCER PIST.W/FLOW 0-15L/min 9/16UNF	UNI2	PG	0-15L/m	O2
RO.200.12215BS	REDUCER PIST.W/FLOW 0-15L/min 9/16 BS	BS 3	PG	0-15L/m	O2
RO.200.12215DIN	REDUCER PIST W/FLOW.0-15L/min 9/16 DIN 9	DIN9	PG	0-15L/m	O2
RO.200.12215NF	REDUCER PIST.W/FLO 0-15L/min 9/16 NF	NF B	PG	0-15L/m	O2
RO.200.12215PIN	RED.PIST.W/FLO PIN INDEX .0-15L/min 9/16	PIN INDEX	PG	0-15L/m	O2
RO.200.12215DOPPIO	REDUCER PIST.W/DOUBLE FLOW.	UNI2	2FLU PG	0-15L/m	O2
RO.200.12214BS	REDUCER PIST.W/FLOW 0-15L/min HUMID.BS	BS 3	UMID PG	0-15L/m	O2
RO.200.12214CGA	REDUCER PIST.W/FLOW 0-15L/minHUMIDIF.CGA	CGA	UMID PG	0-15L/m	O2
RO.200.12214DIN	REDUCER PIST.W/FLOW 0-15L/min HUMID.DIN9	DIN9	UMID PG	0-15L/m	O2
RO.200.12214NF	REDUCER PIST.W/FLO 0-15L/minHUMIDIF.NF	NF B	UMID PG	0-15L/m	O2
RO.200.12214PIN	REDUCER PIST.PININDEX C/FL 0-15 HUMIDIF	PIN INDEX	UMID PG	0-15L/m	O2
RO.200.12214UNI	REDUCER PIST.W/FLOW. 0-15 HUMIDIF UNI	UNI2	UMID PG	0-15L/m	O2

PRESSURE REDUCER WITH SNAP ADJUSTMENT AND ADJUSTABLE HOSE HOLDER

Series RO.300



Balanced piston pressure reducer with step adjustment for the delivery of the output flow. The hose holder can be rotated 360°, facilitating the insertion of the nasal cannula and/or mask.

REFERENCE LEGISLATIVE STANDARDS

CE0123 Council Directive 93/42/EEC
Class IIB

REFERENCE TECHNICAL STANDARDS

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas	Medical Oxygen
Inlet pressure	230 bar (a rich. 300 bar)
Outlet pressure	4 bar
Flow rate	0-15 lt/min
Flow steps	1-1,5-2-3-4-6-9-12-15
Flow rate	0-6 lit/min (a rich.)
Flow steps	0,5-1-1,5-2-2,5-3-4-5-6
Accuracy	+10% o +/- 0,5 lt.min.
Operating temperature	-20° C +50° C

MATERIALS

Body CW617N-UNI EN 12165 Chrome-plated brass
Reducing piston Brass and P.A.6.6

GAUGE

Full scale	0-315 Bar
Accuracy class	2.5
Diameter	50 mm.
Fitting	1/8" G.C

CONNECTIONS

Outlet 9/16" with nut and hose holder 6 mm.
Inlet connection UNI 11144/2

DIMENSION AND WEIGHT

Dimension 140 x 40 x 90 mm.
Weight 0,69 kg.

SAFETY DEVICES

Overpressure valve, Single test, Sintered filter

TRACEABILITY

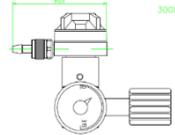
Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and instructions for use

Connection UNI AFNOR 	12250 Lateral connection 
12239 12245 12240 	12256 SINGLE USE CYLINDERS 
12245VE Connection AFNOR with Venturi aspirator EPG 	12245 DIN 12245NF 

code	Description	Inlet	outlet	flow capacity	Gas
RO.300.12208	O2 DOSER UNI LT.MIN 0-30	UNI	PG	0-30L/m	O2
RO.300.12208NF	O2 DOSER NF LT.MIN 0-30	NF B	PG	0-30L/m	O2
RO.300.12239NF	O2 DOSER NF MINI AXIS 0-6L/min SNAP-ON	NF B	PG	0-6L/m	O2
RO.300.12239UNI	O2 DOSER UNI MINI AXIS 0-6L/min SNAP-ON	UNI	PG	0-6L/m	O2
RO.300.12240NF	O2 DOSER NF AXIS 0-15 L/min SNAP-ON	NF B	PG	0-15L/m	O2
RO.300.12240UNI	UNI AXIS O2 DOSER 0-15 L/min SNAP-ON	UNI	PG	0-15L/m	O2
RO.300.12240DIN	O2 DOSER DIN9 AXIS 0-15 L/min SNAP-ON	DIN 9	PG	0-15L/m	O2
RO.300.12245DIN	O2 DOSER DIN 10 AXIS 0-30 LT.MIN	DIN	PG	0-30L/m	O2
RO.300.12245UNI	O2 DOSER UNI MINI AXIS 0-15 SNAP-ON	NTX	PG	0-15L/m	O2
RO.300.12250DIN	MINI O2 DOSER DIN LAT.CONN.	DIN9	PG	0-15L/m	O2
RO.300.12250NF	MINI O2 DOSER NF LAT.CONN.	NF B	PG	0-15L/m	O2
RO.300.12250PIN	MINI O2 DOSER PIN INDEX LAT.CONN.	PIN	PG	0-15L/m	O2
RO.300.12250UNI	MINI O2 DOSER UNI LAT.CONN.	UNI	PG	0-15L/m	O2
RO.300.12250UNI	MINI O2 DOSER UNI LAT.CONN.	UNI	PG	0-15L/m	O2
RO.300.12256	MINI O2 DOSER CONN. 12X1.5 DISPOSABLE CY	12X1,5	PG	0-15L/m	O2
RO.301.12240UNI	UNI O2 DOSER 0-15 L/min UNI SOCKET	UNI	UNI	0-15L/m	O2
RO.301.12250UNI	MINI O2 DOSER CONN. SOCKET UNI	UNI	UNI	0-15L/m	O2
RO.302.12240DIN	O2 DOSER DIN9 0-15 L/min W/AFNO SOCKET	DIN9	AFNOR	0-15L/m	O2
RO.302.12240NF	O2 DOSER NF 0-15 L/min W/AFNO SOCKET	NF B	AFNOR	0-15L/m	O2
RO.302.12240UNI	O2 DOSER UNI 0-15 L/min W/AFNO SOCKET	UNI	AFNOR	0-15L/m	O2
RO.302.12250NF	MINI O2 NF DOSER AFNOR	NF B	AFNOR	0-15L/m	O2
RO.303.12240DIN	O2 DOSER DIN9 0-15 L/min W/DIN SOCKET	DIN 9	DIN	0-15L/m	O2

FIRST STAGE PRESSURE REDUCER FOR MEDICAL EQUIPMENT, ADJUSTABLE OUTPUT PRESSURE 0-4BAR

Series RO.200



Single stage pressure reducer. It is used to power medical systems and equipment. It can be equipped with a outlet rubber hose or UNI/AFNOR/DIN/BS socket. The outlet pressure is adjustable.

SAFETY DEVICES

- Over pressure safety valve
- Single unit test
- Sintered filter
- Single integrated body

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and instructions for use

REFERENCE LEGISLATIVE STANDARDS

CE₀₁₂₃ Council Directive 93/42/EEC
Class IIB

REFERENCE TECHNICAL STANDARDS

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas O₂, Air, N₂O, CO₂
Inlet pressure 230 bar (on request 300 bar)
Outlet pressure adjustable 0-4 bar
Operating temperature -20° C +50° C

MATERIALS

Body CW617N-UNI EN 12165
Chrome-plated brass
Reducing piston Brass and P.A.6.6

GAUGE

Full scale 0-315 Bar
0-16 bar (b p)
Accuracy class 2.5
Diameter 50 mm.
Fitting 1/8" G.C

CONNECTION

Outlet Perpendicular to the inlet connection
9/16 and hose connector 6 mm.
Fitting UNI AFNOR
Inlet connection UNI 11144/2 (Medical oxygen)
UNI 11144/6 (Medical air)
UNI 11144/9 (Medical nitrous oxide)
UNI 11144/10 (Medical carbon dioxide)

DIMENSION AND WEIGHT

Dimension 130 x 120 x 190 mm.
Weight 1,130 kg.

CODE	DESCRIPTION	INLET	OUTLET	MAX OUTLET PRESSURE	GAS
RO.200.12081UNI	REDUCER I STD 2GAUGE. O2 UNI PG	UNI 2	PG	0-4	O2
RO.200.12081NF	REDUCER I STD 2GAUGE. O2 NF PG	NF B	PG	0-4	O2
RO.200.12081DIN	REDUCER I STD 2GAUGE O2 DIN9 3/4 G /PG	DIN 9	PG	0-4	O2
RO.200.12081DIN6	REDUCER I STD 2GAUGE. O2 DIN6 21.8 PG	DIN6	PG	0-4	O2
RO.200.12082UNI	REDUCER I STD 2GAUGE. AIR UNI PG	UNI 6	PG	0-4	ARIA
RO.200.12082NF	REDUCER I STD 2GAUGE. AIR NF PG	NF B	PG	0-4	ARIA
RO.200.12082DIN	REDUCER I STD 2GAUGE. AIR DIN 5/8 PG	DIN	PG	0-4	ARIA
RO.200.12082DIN6	REDUCER I STD 2GAUGE. AIR DIN 6 21.8PG	DIN6	PG	0-4	ARIA
RO.200.12084MED	REDUCER I STD 2GAUGE. CO2 MED PG	UNI 10H	PG	0-4	CO2 MED
RO.200.12085UNI	REDUCER I STD 2GAUGE. N2 UNI PG	UNI 5	PG	0-4	N2
RO.200.12085NF	REDUCER I STD 2GAUGE. N2 NF PG	AFNOR C	PG	0-4	N2
RO.200.12086UNI	REDUCER I STD 2GAUGE. N2O UNI PG	UNI9	PG	0-4	N2O
RO.200.12086NF	1ST.2GAUGE REDUCER. N2O NF PG	AFNOR G	PG	0-4	N2O
RO.202.12091	REDUCER I STD 2GAUGE. O2 + AFNOR	UNI 2	AFNOR	0-4	O2
RO.201.12101	REDUCER I STD 2GAUGE. O2 + UNI	UNI 2	UNI	0-4	O2
RO.201.12102	REDUCER I STD 2GAUGE. AIR + UNI SOCKET	UNI 6	UNI	0-4	ARIA

DOUBLE STAGE PRESSURE REDUCER FOR MEDICAL EQUIPMENT WITH ADJUSTABLE OUTPUT PRESSURE 0-4 BAR

Series RO.200



The double stage allows a finer and more constant regulation of the pressure, this reducer is used to power medical systems and equipment. It can be equipped with a rubber port outlet or UNI/AFNOR socket and the outlet pressure is adjustable.



SAFETY DEVICES

- Over pressure safety valve
- Single unit tests
- Sinter filter
- Single integrated body

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for use

REFERENCE LEGISLATIVE STANDARDS

CE₀₁₂₃ Council Directive 93/42/EEC
Class IIB

REFERENCE TECHNICAL STANDARDS

UNI EN 10524-1

TECNICAL FEATURES

PERFORMANCE

Gas O₂, Air, N₂O, CO₂
Inlet pressure 230 bar (upon request 300 bar)
Outlet pressure Adjustable. 0-5 bar
Operating temperature -20° C +50° C

MATERIALS

Body CW617N-UNI EN 12165 Chrome-plated brass
Reducing piston Brass and P.A.6.6

GAUGE

Full scale 0-315 Bar 0-10 bar (low pressure)
Accuracy class 2.5
Diameter 50 mm.
Fitting 1/8" G.C

CONNECTIONS

Outlet Perpendicular to the inlet connection
9/16 and hose connector 6 mm.
Socket UNI AFNOR
Inlet connection UNI 11144/2 (Medical oxygen)
UNI 11144/6 (Medical air)
UNI 11144/9 (Medical nitrous oxide)
UNI 11144/10 (Medical carbon dioxide)

DIMENSIONS AND WEIGHT

Dimension 130 x 120 x 190 mm.
Weight 1,130 kg

code	Description	Inlet	outlet	max outlet pressure	Gas
RO.200.12161DIN	GEARBOX II STD 2MAN. O2 DIN PG	DIN	PG	0-4bar	O2
RO.200.12161NF	REDUCER II STD 2GAUGE. O2 NF PG MED CE	NF B	PG	0-4bar	O2
RO.200.12161UNI	REDUCER II STD 2GAUGE. O2 UNI PG MED CE	UNI 2	PG	0-4bar	O2
RO.200.12162UNI	REDUCER II STD 2GAUGE. AIR UNI PG MED	UNI 6	PG	0-4bar	ARIA
RO.200.12163UNI	REDUCER II STD 2GAUGE. CO2 UNI PG MED	UNI 2	PG	0-4bar	CO2
RO.200.12164MED	REDUCER II STD 2GAUGE. CO2 MED PG MED	CO2 MED	PG	0-4bar	CO2 MED
RO.200.12165UNI	REDUCER II STD 2GAUGE. N2 UNI PG MED	UNI 5	PG	0-4bar	N2
RO.200.12166UNI	REDUCER II STD 2GAUGE. N2O UNI PG MED	UNI9	PG	0-4bar	N2O
RO.200.12168PIN	REDUCER II STD 2GAUGE. PIN INDEX	STAFFA P.I.	PG	0-4bar	O2
RO.201.12161UNI	REDUCER II STD 2GAUGE. O2 UNI CE SOCKET	UNI 2	UNI	0-4bar	O2
RO.202.12161UNI	2 STD 2GAUGE REDUCER. O2UNI MED CE AFNOR	UNI 2	AFNOR	0-4bar	VARI
RO.201.12162UNI	REDUCER 2 STD 2GAUGE AIRUNI MED CE	UNI 6	UNI	0-4bar	ARIA
RO.201.12164UNI	REDUCER 2 STD 2GAUGE N2O UNI MED	UNI 10H	UNI	0-4bar	CO2 MED
RO.202.12164MED	2 STD 2GAUGE REDUCER. CO2 MED CE AFNOR	UNI 10H	AFNOR	0-4bar	CO2 MED
RO.201.12166UNI	2 STD 2GAUGE REDUCER. N2O UNI MED AFNOR	UNI9	UNI	0-4bar	N2O
RO.202.12166UNI	2 STD 2GAUGE REDUCER. N2O UNI MED AFNOR	UNI9	AFNOR	0-4bar	VARI
RO.201.12168PIN	REDUCER 2 STD 2GAUGE O2 BRACKET P.I. PG	STAFFA	UNI	0-4bar	O2

DOUBLE STAGE PRESSURE REDUCER FOR MEDICAL EQUIPMENT, WITH PRE-CALIBRATED OUTLET PRESSURE 4 BAR

Series RO.200



It is used to power medical systems and equipment.
It can be equipped with a hose outlet connection or UNI/AFNOR socket and the outlet pressure is adjustable.

SAFETY DEVICES

- Over pressure safety valve
- Single unit tests
- Sinter filter
- Single integrated body

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use

REFERENCE LEGISLATIVE STANDARDS

CE₀₁₂₃ Council Directive 93/42/EEC
Class IIB

REFERENCE TECHNICAL STANDARDS

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas O₂, Air, N₂O, CO₂
Inlet pressure 230 bar (upon request 300 bar)
Outlet pressure Adjustable, 0-4 bar
Operating temperature -20° C +50° C

MATERIALS

Body CW617N-UNI EN 12165
Chrome-plated brass
Reducing piston Brass and P.A.6.6

GAUGE

Full scale 0-315 Bar
0-10 bar (low pressure)
Accuracy class 2.5
Diameter 50 mm.
Fitting 1/8" G.C

CONNECTIONS

Outlet Perpendicular to the inlet connection
9/16 and hose connector 6 mm.
Socket UNI AFNOR
Inlet connection UNI 11144/2 (Medical oxygen)
UNI 11144/6 (Medical air)
UNI 11144/9 (Medical nitrous oxide)
UNI 11144/10 (Medical carbon dioxide)

DIMENSIONS AND WEIGHT

Dimension 130 x 120 x 190 mm.
Weight 1,130 kg

code	Description	Inlet	outlet	max outlet pressure	Gas
RO.200.12120MED	REDUCER II STD 1GAUGE. CO2 MED.PG	UNI 2	PG	4Bar	CO2
RO.200.12121CGA	REDUCER II STD 1GAUGE. O2 CGA PG	CGA	PG	4Bar	O2
RO.200.12121DIN	REDUCER II STD 1GAUGE. O2 DIN PG	DIN	PG	4Bar	O2
RO.200.12121DIN6	REDUCER II STD 1GAUGE. O2 DIN6 PG	DIN6	PG	4Bar	O2
RO.200.12121NF	REDUCER II STD 1GAUGE. O2 NF PG	NF B	PG	4Bar	O2
RO.200.12121PIN	2ST.1GAUGE REDUCER. O2 PIN INDEXC/PG	PIN INDEX	PG	4Bar	O2
RO.200.12121UNI	REDUCER II STD 1GAUGE. O2 UNI PG	UNI 2	PG	4Bar	O2

DOUBLE STAGE PRESSURE REDUCER FOR OZONE THERAPY

Series RO.200



Double or single stage pressure reducers. They can be used to power medical systems and equipment for ozone therapy.

They can be equipped with a hose connection outlet or UNI/AFNOR socket. The outlet pressure is adjustable.

SAFETY DEVICES

- Over pressure safety valve
- Single unit tests
- Sinter filter
- Single integrated body

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use

REFERENCE LEGISLATIVE STANDARDS

CE₀₁₂₃ Council Directive 93/42/EEC
Class IIB

REFERENCE TECHNICAL STANDARDS

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas O₂
Inlet pressure 200 bar
Outlet pressure Adjustable. 0-5 bar
Operating temperature -20° C +50°C

MATERIALS

Body CW617N-UNI EN 12165
Chrome-plated brass
Reducing piston Brass and P.A.6.6

GAUGE

Full scale 0-315 Bar
0-10 bar (low pressure)
Accuracy class 2.5
Diameter 50 mm.
Fitting 1/8" G.C

CONNECTIONS

Outlet Perpendicular to the inlet connection
9/16 and hose connector 6 mm.
Socket Hose connector
Inlet connection UNI 11144/2 (Medical oxygen)

DIMENSIONS AND WEIGHT

Dimension 130 x 120 x 190 mm.
Weight 1,130 kg

code	Description	Inlet	outlet	max outlet pressure	Gas
RO.200.12187	REDUCER II STD PISTON 2GAUG MED PI 200 BAR PU 0-2.5 BAR	UNI 2	PG	0-2,5	O2
RO.300.12230	O2 DOSER CALIBRATED AT 0.45BAR	UNI 2	PG	4,0	O2
RO.200.12081UNI	REDUCER I STD 2GAUGE. O2 UNI PG	UNI 2	PG	0-4	O2

MEDICAL OXYGEN FLOWMETER WITH STEP ADJUSTMENT

Series RO.400



It is used to power medical systems and equipment. It can be equipped with a hose holder or UNI/AFNOR socket. The outlet pressure is adjustable.

SAFETY DEVICES

Over pressure safety valve
Single unit tests
Sinter filter
Single integrated body

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use

REFERENCE LEGISLATIVE STANDARDS

CE₀₁₂₃
Class

Council Directive 93/42/EEC
IIB

REFERENCE TECHNICAL STANDARDS

UNI EN 10524-1

TECHNICAL FEATURES

PERFORMANCE

Gas	Medical oxygen
Inlet pressure	3.5 bar
• Flow rate	0-15 lt/min
Flow steps	1-1,5-2-3-4-6-9-12-15
• Flow rate	0-6 lt/min (upon request)
Flow steps	0,5-1-1,5-2-2,5-3-4-5-6
Accuracy	+10% o + 0,5 lt.min.
Operating temperature	-20° C +50°C

MATERIALS

Body	Chromed-brass CW617N-UNI EN 12165
Piston	Brass and P.A.6.6

CONNECTIONS

Inlet	AFNOR/UNI
Outlet	9/16 UNF male (1/4" upon request) with nut and hose connector

DIMENSIONS AND WEIGHT

Dimension	170 x 100 x 110 mm.
Weight	0,780 kg.

code	Description	Inlet	outlet	flow capacity	Gas
RO.400.12039UNI	STICK FLOWMETER 9/16" UNI CONNECT.	UNI	PG	0-15L/m	O ₂
RO.400.12039AF	STICK FLOWMETER 9/16" AFNOR CONNECTION	AFNOR	PG	0-15L/m	O ₂
RO.400.12039	STEP FLOWMETER 1/4G WITHOUT COUPLING	G1/8	PG	0-15L/m	O ₂
CO.400.12059	9/16UNF HUMIDIFIER FOR FLOWMETER	9/16 UNF	PG	0-15L/m	O ₂

MEDICAL OXYGEN FLOWMETER WITH GRAFT

Series RO.400



Medical oxygen flowmeter with continuous regulation for hospital systems.
The adjustment after the passage from the column allows greater flow stability.

SAFETY DEVICES

Single unit tests
Sinter filter
Single integrated body

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use

code	Description	Inlet	outlet	flow capacity	Gas
RO.400.12046	OXYGEN FLOWMETER CONN.1/4	G1/4	PG	0-15L/m	O2
RO.400.12047	FLOWMETER 9/16UNF CONNECT. UNI	UNI	PG	0-15L/m	O2
RO.400.12047DIN	FLOWMETER 9/16UNF DIN CONNECT.	DIN	PG	0-15L/m	O2
RO.400.12049	FLOWMETER 9/16UNF CONNECT. AFNOR	AFNOR	PG	0-15L/m	O2
RO.400.12190	AFNOR DOUBLE CONNECTION FLOWMETER	NF B	PG	0-15L/m	O2
RO.400.12191	DOUBLE CONNECTION FLOWMETER UNI	UNI 1H	PG	0-15L/m	O2
RO.400.12194	FLOWMETER W/AFNOR CONNECTION W/HUMIDIF.	NF B	UMID PG	0-15L/m	O2
RO.400.12195	FLOWMETER UNI CONNECTION W/HUMIDIF.	UNI 2	UMID PG	0-15L/m	O2
RO.400.12197	FLOWMETER DOUBLE CONNECT. AFNOR W/HUMIDI	NF B	UMID PG	0-15L/m	O2
RO.400.12198	FLOWMETER DOUBLE CONNECT. UNI W/HUMIDIF	UNI 2	UMID PG	0-15L/m	O2
CO.400.12059	9/16UNF HUMIDIFIER FOR FLOWMETER	9/16 UNF	PG	0-15L/m	O2

REFERENCE LEGISLATIVE STANDARDS

CE₀₁₂₃ Council Directive 93/42/EEC
Class IIA

REFERENCE TECHNICAL STANDARDS

UNI EN ISO 15002

TECHNICAL FEATURES

PERFORMANCES

Gas Medical Oxygen
Inlet pressure 4 bar
Flow rate 0-15 lit/min
with adjustable sphere
Operating temperature -20° C +50° C

MATERIALS

Body CW617N-UNI EN 12165
Chrome-plate brass
Opening Nylon with brass insert

CONNECTION

Inlet AFNOR/UNI/DIN
Outlet male 9/16 UNF (1/4" upon req.) with nut and hose connector

DIMENSIONS AND WEIGHT

Dimensions 170 x 100 x 110 mm. (single)
Weight 0,780 kg.

ACCESSORIES



code	Description	Inlet	outlet	Gas
RO.400.12001	SPLITTER FOR FLOW METER	UNI	1/4G	-
RO.400.12001DIN	SPLITTER FOR DIN FLOWMETER	DIN	1/4G	-
1692	QUICK COUPLING UNI 9507 O2 CONNECTION M. GC1/4	UNI 2	GC 1/4	
1692	QUICK COUPLING UNI 9507 O2 CONNECTION M. GC1/4	UNI 2	GC 1/4	
1692C	QUICK COUPLING UNI W/HOSE HOLDER O2	UNI		
1692A	QUICK COUPLING UNI 9507 O2 PRED. PORTAG. 90° FORO 3/8-24 UNF	UNI		
CO.100.12067	UNI O2 SOCKET 1/4" VGTI60-O-M1/4	UNI	G1/4	O2
1692A	QUICK COUPLING UNI 9507 O2 PRED. PORTAG. 90° FORO 3/8-24 UNF	UNI		
CO.100.12068	UNI AIR SOCKET 20X1.5SX VGT60-A4		G1/5	ARIA
1692N2O	QUICK COUPLING UNI-N2O+HOSE HOLDER N2O	UNI		
CO.100.12069	UNI N2O VGT45M-P/PB SOCKET	UNI		N2O
CO.100.12072	UNI CO2 MEDICAL SOCKET GC1/4"	UNI		CO2
1694	QUICK COUPLING AFNOR W/HOSE HOLDER STRAIGHT O2	AFNOR	G C1/4 f	
1694C	QUICK COUPLING AFNOR-GC1/4" O2	AFNOR	PG	
1694B	QUICK COUPLING AFNOR 1/8" O2	AFNOR	1/8 "	
1694D	QUICK COUPLING AFNOR- 90° O2	AFNOR	GC 1/4	
1694A	QUICK COUPLING AFNOR- 3/8 UNF F.O2	AFNOR	3/8UNF	
1694E	QUICK COUPLING AFNOR O2 9/16 UNF	AFNOR	GC 1/8	O2
CO.100.12064	AFNOR O2 1/4" SOCKET	NF	G1/4	O2
1694ARIA	QUICK COUPLING AIR AFNOR 1/4G AIR	AFNOR B	PG	ARIA
CO.100.12065	AFNOR AIR SOCKET 1/4"	NF B		ARIA
1694N2O	QUICK COUPLING AFNOR N2O W/HOSE HOLDER STRAIGHT	AFNOR G	PG	N2O
CO.100.12066	AFNOR N2O SOCKET 1/4"	AFNOR G		N2O
CO.100.12070	AFNOR CO2 MEDICAL SOCKET 1/4"	AFNOR C		CO2
1690	QUICK COUPLING DIN 1/4 IGTD F1/4-O	DIN	F1/4-	
1690O2	COUPLING DIN O2 W/HOSE HOLDER 90° IGTGD-PG6-O	DIN		O2
4022	QUICK COUPLING DIN O2 G1/8" FOR FLOWMET	DIN		O2
1690ARIA	COUPLING DIN AIR W/HOSE HOLDER 90° IGTGD-PG6-A4	DIN		ARIA
CO.100.12063AIR	DIN AIR SOCKET VGTD-A4-M1/4	DIN		ARIA
1690N2O	COUPLING DIN N2O IGTGD-PG6-A4	DIN		N2O
CO.100.12063N2O	1/4" DIN N2O SOCKET VGTD-P-M1/4	DIN		N2O
CS.100.15701	L.P. 90° SWIVEL JOINT IN M. G1/4 - OUT F. G1/4	G1/4	G1/4	
1374	COPPER WASHER FOR HOLE G1/4 11,5X5X1 MM			

HUMIDIFIER AND ACCESSORIES FOR OXYGEN THERAPY

STERILIZABLE HUMIDIFIER FOR OXYGEN THERAPY

Series CO.400



Sterilizable humidifier for oxygen therapy. It is a device that allows you to increase the humidity level during oxygen therapy both at home and at hospitals.

TRACEABILITY

Serial number stamped on the valve body

LIFETIME OF THE PRODUCT

10 years from product manufacturing

DOCUMENTATION

Declaration of Conformity and Instructions for Use

REFERENCE LEGISLATIVE STANDARDS

CE₀₁₂₃ Council Directive 93/42/EEC
Class IIA

REFERENCE TECHNICAL STANDARDS

EN ISO 20789

TECHNICAL FEATURES

PERFORMANCE

Operating temperature 2°C – 50°C (+/- 10%)

MATERIALS

Body Sterilizable macron
Fitting Chromed brass connection

CONNECTIONS

Inlet 9/16 UNF female
Outlet Adjustable hose connector 6 mm.

DIMENSION AND WEIGHT

Dimension 175 mm x 116 mm
Weight 180 gr.

DISPENSING FLOW

20 lt/min. (max)

OPERATING PRESSURE

5 bar (max)

CAPACITY

250 cc.

code	Description	Inlet	outlet	flow capacity	Gas
CO.400.12059	9/16UNF HUMIDIFIER FOR FLOWMETER	9/16 UNF	PG	0-15L/m	O ₂

SINGLE-PATIENT HUMIDIFIER FOR OXYGEN THERAPY Series CO.400.18016



Single-patient bubbler humidifier. Connection to the 9/16" UNF flowmeter. Cup in non-toxic PVC material with a capacity of 350 cc. Equipped with a 6 psi safety valve, it is very simple to connect to the oxygen source thanks to the connection with large fins. Product identification label. Built and marked as intended for medical devices. Packs of 50 pieces.

code	Description	Inlet	outlet	flow capacity	Gas
CO.400.18016	DISPOSABLE HUMIDIFIER 9/16" MU0002	9/16 F	PG	0-15L/m	O ₂

SINGLE-PATIENT MASKS FOR OXYGEN THERAPY Series CO.400.18021



Masks for Oxygen Therapy.

The anti-crush hose prevents interruptions in the oxygen flow.

The products are disposable and packaged in a single bag containing the product data and production date (pediatric version on request).

Expiration of 3 years from the production date is shown on the packaging. The product is compliant with Directive 93/42/EEC (Legislative Decree 46/97), Class IIA device. Packs of 50 pieces.

code	Description
CO.400.18021	MASK FOR OXYGEN THERAPY W/MMA00002 TUBE
CO.400.18023	C-BALL OXYGEN THERAPY MASK

MEDICAL GAS VALVE MOD. FUTURA

Series VI.200



FUTURA valve is for high pressure medical gas cylinders.

REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/EU

REFERENCE TECNICAL STANDARDS

UNI EN ISO 10297

PERFORMANCE

Gas O₂/Air/N₂O/CO₂
 Inlet pressure 230 Bar
 Operating temperature -45° C +65°C

MATERIALS

Body Chromed brass CW617N-UNI EN 12165
 Shutter Peek with brass pit
 Hole seat 5,2 mm.
 O-ring EPDM
 Valve knob Grey painted aluminum

CONNECTIONS

Inlet 25 E
 Outlet UNI - NF - DIN - BS - CGA
 Filling connection UNI 11144/2 (Med. oxygen)
 UNI 11144/6 (Med. air)
 UNI 11144/10 (Med. Carbon Dioxide)
 Dip tube connection M10x1

DIMENSIONS AND WEIGHT

Dimension 120 x 60 x 52 mm
 Weight 0,65Kg

SAFETY DEVICES

Overpressure valve (CO₂-N₂O)

DOCUMENTATION

Declaration of Conformity and Instructions for Use

code	Description	Inlet	outlet	Gas
VI.236.20538UNI	VAL.FUTURA 25E CO2 UNI 11144/2	25E	UNI/2	CO2
VI.236.20540UNI	VAL.FUTURA 25E CO2 UNI 11144/2 CHROM	25E	UNI/2	CO2
VI.236.20520UNI	VAL.FUTURA 25E O2 UNI 11144/2 CROM	25E	UNI 2	O2
VI.236.20544UNI	VAL.FUTURA 25E N2O UNI 11144/9 CHROM	25E	UNI 1144/9	N2O
VI.244.20402	VAL.FUTURA 25E UNI 11144/6 AIR CRM	25E	UNI 1144/6	ARIA
VI.244.20404NF	VAL.FUTURA 25E O2 NF E29-656 CROM.	25E	NF E29-656 /B	O2
VI.244.20568ISO	VAL.FUTURA 25E CO2 ISO5145 MED CHROM.	25E	ISO5145	CO2 MED
VI.244.20534DIN	VAL.FUTURA 25E O2 DIN477/9 200BAR	25E	DIN 9	O2

MEDICAL GASES RESIDUAL VALVE MOD. FUTURA

Series VI.400



Residual valves mod. FUTURA in chromed brass for high pressure cylinders. This valve is equipped with a positive pressure residual system, with the specific function of preventing the penetration of all molecules foreign to the gas found in the cylinder, leaving a residual gas of approximately 3 bar.



Adapter for FUTURA Valve
High pressure brass body with stainless steel tip. Connection according to UNI/NF/BS/DIN standards.

REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/EU

REFERENCE TECHNICAL STANDARDS

UNI EN ISO 10297

PERFORMANCE

Gas O₂/Air/N₂O/CO₂
Inlet pressure 230 Bar
Operating temperature -45° C +65°C
Residual pressure 2,5/4bar

MATERIALS

Body Chromed brass CW617N-UNI EN 12165
Shutter Peek with brass ferrule
Hole seat 5,2 mm.
O-ring EPDM
Valve knob Grey painted aluminum

CONNECTION

Inlet 25 E – 17E
Outlet UNI - NF - DIN - BS - CGA
Filling connection UNI 11144/2 (Med. oxygen)
UNI 11144/6 (Med. air)
UNI 11144/10 (Med. Carbon dioxide)
Dip tube connection M10x1

DIMENSIONS AND WEIGHT

Dimension 120 x 60 x 52 mm
Weight 0,75Kg

ACCESSORY DEVICES

Charging adapter

SAFETY DEVICES

Overpressure valve (CO₂-N₂O)

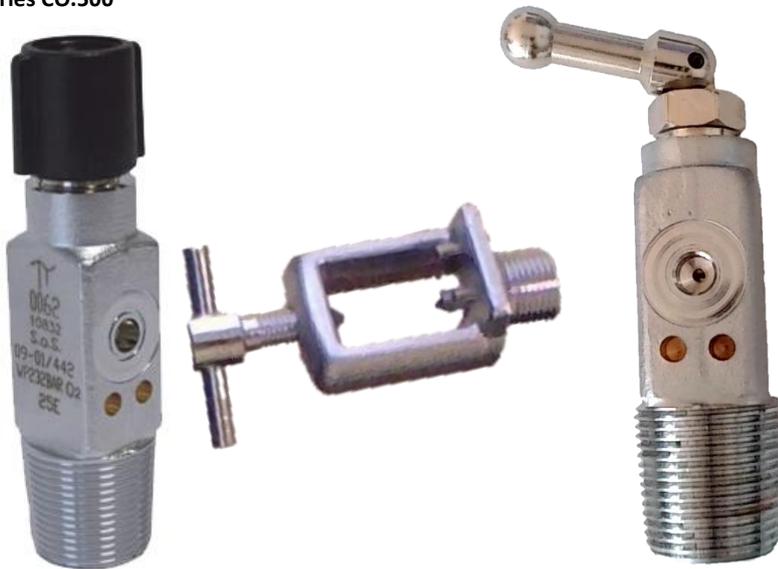
DOCUMENTATION

Declaration of Conformity and instructions for use.

code	Description	Inlet	outlet	Gas
VI.448.20611UNI	VAL.FUTURA 25E O ₂ UNI 11144/2 RES.	25E	UNI/2	O ₂
VI.448.20615UNI	VAL.FUTURA 17E O ₂ UNI 11144/2 RES.	17E	UNI/2	O ₂
VI.448.20617UNI	VAL.FUTURA 25E AIR UNI 11144 RES.	25E	UNI/6	ARIA
VI.448.20618UNI	VAL.FUTURA 25E CO ₂ UNI 11144 MED. RES.	25E	UNI/10	CO ₂ MED
VI.448.20619UNI	VAL.FUTURA 17E CO ₂ UNI 11144 MED RES.	17E	UNI/10	CO ₂ MED
VI.448.20620UNI	VAL.FUTURA 17E N ₂ O UNI 11144 RES.	17E	UNI/9	N ₂ O
CO.100.10638	ADAPTER FOR FUTURA RES N ₂	UNI 5		N ₂
CO.100.10639	ADAPTER FOR FUTURA RES O ₂ -CO ₂ UNI	UNI 2		O ₂ CO ₂
CO.100.10640	ADAPTER FOR FUTURA RES AR-HE	UNI 8		Ar-He

PIN INDEX MEDICAL GAS VALVES

Series CO.500



High pressure Pin Index valve for medical gas cylinders. These devices are equipped with special connection holes to which is applied the appropriate bracket depending on the gas that will be used.

SAFETY DEVICES

Overpressure valve (CO₂-N₂O)

DOCUMENTATION

Declaration of Conformity and Instructions for Use.

code	Description	Inlet	outlet	Gas
VI.528.10802	VAL.PIN INDEX 17E N2	17E	Pin index	N2
VI.528.10803	VAL.PIN INDEX 17E N2O	17E	Pin index	N2O
VI.528.10804	VAL.PIN INDEX 17E O2	17E	Pin index	O2
VI.528.10805	VAL.PIN INDEX 17E CO2	17E	Pin index	CO2
VI.528.10806	VAL.PIN INDEX 17E AIR	17E	Pin index	ARIA
VI.528.10807	VAL.PIN INDEX 17E AR-HE	17E	Pin index	Ar-He
VI.528.10823	VAL.PIN INDEX 1" N2O BS341	1"	Pin index	N2O
VI.528.10824	VAL.PIN INDEX 0.715 O2 BS341	1"	Pin index	O2
VI.528.10831	VAL.PIN INDEX 25E N2O	25E	Pin index	N2O
VI.528.10832	VAL.PIN INDEX 25E O2	25E	Pin index	O2
VI.528.10833	VAL.PIN INDEX 25E AIR	25E	Pin index	ARIA
VI.528.10835	VAL.PIN INDEX 25E CO2	25E	Pin index	CO2
VI.528.10836	VAL.PIN INDEX 25E AR-HE	25E	Pin index	Ar-He
VI.528.10837	VAL.PIN INDEX 25E NITROGEN	25E	Pin index	N2
VI.528.60832L	VAL.PIN INDEX 25E O2 W/CONTROL LEVER	25E	Pin index	O2
CO.503.10834	PIN INDEX YOKE ISO 407 N2 G ¼ CR	Pin Index	G1/4	N2
CO.503.10835	PIN INDEX YOKE ISO 407 N2O G ¼ CR	Pin Index	G1/4	N2O
CO.503.10836	PIN INDEX YOKE ISO 407 O2 G¼ CHROME	Pin Index	G1/4	O2
CO.503.10836A	PIN INDEX YOKE ISO 407 O2 21.7 CR	Pin Index	21,7	O2
CO.503.10836B	PIN INDEX YOKE ISO 407 O2 3/4G CR	Pin Index	G3/4	O2
CO.503.10837	PIN INDEX YOKE ISO 407 CO2 G ¼ CR	Pin Index	G1/4	CO2
CO.503.10838	PIN INDEX YOKE ISO 407 AIR G ¼ CHROME	Pin Index	G1/4	ARIA
CO.503.10838BS	PIN INDEX YOKE OXYGEN BS3 G5/8	Pin Index	G5/8	O2
CO.503.10839	PIN INDEX ISO 407 AR-HE G ¼ CHROMED	Pin Index	G1/4	AR-HE
CO.503.10839A	PIN INDEX YOKE AR-HE- 21.8	Pin Index	21,8	Ar-He
1787	GASKET FOR PIN INDEX BRACKET			
1787A	BODOK NBR 80SH INDEX PIN BRACKET GASKET BLACK			

REFERENCE LEGISLATIVE STANDARDS

π1370

Directive 2010/35/EU

TECHNICAL STANDARDS OF REFERENCE

UNI EN ISO 10297

PERFORMANCE

Gas	O ₂ /Air/N ₂ O/CO ₂
Inlet pressure	230 Bar
Operating temperature	-45° C +65°C

MATERIALS

Body	Chromed brass CW617N-UNI EN 12165
Shutter	Peek with brass ferrule
Hole seat	2,4 mm.
O-ring	EPDM
Valve knob	Black Nylon

CONNECTIONS

Inlet	17E-25 E
Outlet	UNI/CGA
Filling connection	
Dip tube connection	M6

DIMENSIONS AND WEIGHT

Dimension	120 x 60 x 52 mm
Weight	0,65Kg

EURO 2000 VALVES FOR MEDICAL GAS CYLINDERS

Series VI.123



Euro 2000 valve in chromed brass for medical gas cylinders with 17 E connection. This compact device is suitable for application on small cylinders.

REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/EU

REFERENCE TECHNICAL STANDARDS

UNI EN ISO 10297

PERFORMANCE

Gas O²/Air/N²O/CO²

Inlet pressure 230 Bar

Operating temperature -45° C +65°C

MATERIALS

Body Chromed brass CW617N-UNI EN 12165

Shutter Peek with brass ferrule

Hole seat 2,4 mm.

O-ring EPDM

Valve knob Nylon

CONNECTIONS

Inlet 17 E

Outlet UNI - NF - DIN - BS - CGA

Filling connection UNI 11144/2 (Med. oxygen)

UNI 11144/6 (Med. air)

UNI 11144/10

(Med. Carbon dioxide)

M10x1

Dip tube connection

DIMENSIONS AND WEIGHT

Dimension 95 x 45 x 40 mm

Weight 0,645Kg

SAFETY DEVICES

Overpressure valve (CO₂-N₂O)

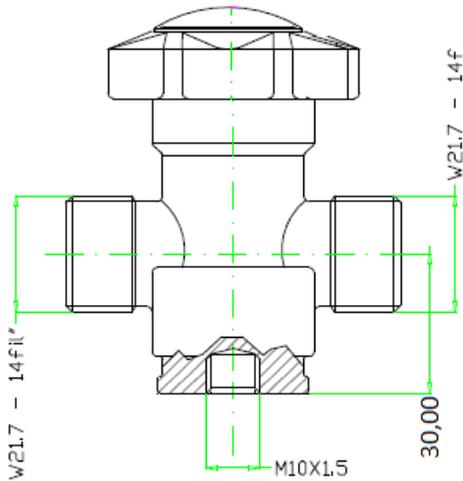
DOCUMENTATION

Declaration of Conformity and Instructions for Use.

code	Description	Inlet	outlet	Gas
VI.123.10748	VAL.E2000 17E AIR W30X14 UNI	17E	UNI 6	ARIA
VI.123.10752	VAL.E2000 17E CO2 UNI MEDICAL	17E	UNI 10	CO2
VI.126.10861	VAL.E2000 RED. 17E O2 UNI	17E	UNI 2	O2
VI.126.10864	VAL.E2000 RED. 17E N2O UNI W/BD.	17E	UNI 9	N2O
VI.123.10754	VAL.E2000 17E O2 NF	17E	NF B	O2
VI.113.10760	CORNER VALVE 25E UNI 11144/2 (O2)	25E	UNI 2	O2
VI.113.10762	VAL. E2000 INLINE 25E O2 UNI2	25E	UNI 2	O2
VI.113.10760RU	VAL. ONLINE 17E 21.8 RU	17E	UNI 2	O2

VALVES FOR PANELS AND SPECIAL APPLICATIONS

VI.322.20702



REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/EU

STANDARD TECHNICAL STANDARDS

UNI EN ISO 10297

PERFORMANCE

Gas O₂, N₂, Aria

Inlet pressure 230 Bar

Operating temperature -45° C +65°C

MATERIALS

Body Chromed brass CW617N-UNI EN 12165

Shutter Peek with brass ferrule

Hole seat M10c1,5 mm.

O-ring EPDM

Valve knob Grey painted aluminum

CONNECTIONS

Inlet UNI 11144

Outlet UNI 11144

DIMENSIONS AND WEIGHT

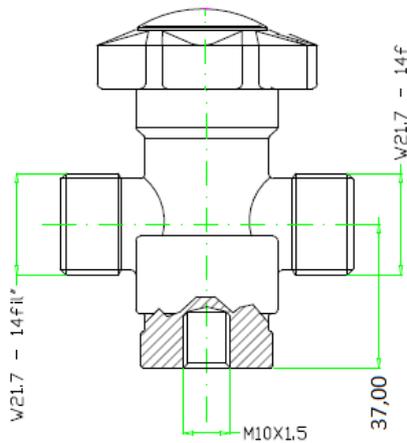
Dimension 98x65x56 mm

Weight 0,65Kg

DOCUMENTATION

Declaration of Conformity and instructions for use. SDC

VI.322.20702STM



code	Description	Inlet	outlet	max outlet pressure	Gas
VI.322.20702	VAL.FUTURE M10X1.5 21.7X14+21.7X14 QUAD	UNI 1144/2	UNI 1144/2	23Bar	O ₂

STEEL PROTECTIVE CAP FOR VALVES

Series DCAPP



Steel protective cap for valves to be applied to cylinders from 5 to 50 liters.
Key for mounting the protection.



REFERENCE TECHNICAL STANDARDS

EN ISO 11117

TECHNICAL FEATURES

MATERIALS

Body Galvanized steel

CONNECTIONS

To the cylinder Via mounting key

ADAPTABILITY

To all cylinders with a capacity of 5 -50 liters

DIFFERENT VERSIONS

Tulip cap, galvanized steel open on both sides.

Closed cap, grey painted steel.

Black tulip cap. Galvanized steel open on one side.

Other colors and brands customizable on request.

SAFETY

Fall test EN ISO 11117

ACCESSORY DEVICE

Mounting key

code	Description
CO.100.18100	FULL ROUND IRON CAP
CO.100.18103	TULIP CAP ST.STEEL ZINC.AP.2LA
CO.100.18104	TULIP CAP W/SCREW ZINC.AP.2LA

ABS TULIP CAP FOR CYLINDERS

Series DCAPP



REFERENCE TECHNICAL STANDARDS

EN ISO 11117

TECHNICAL FEATURES

MATERIALS

Body ABS

CONNECTIONS

To the cylinders through thread

ADAPTABILITY

To all cylinders with a 0,5-14lt capacity

VERSIONS

Black version (series)

Coloured version (white, blue, light blue, yellow, red)

SAFETY

Fall test EN ISO 11117

ABS cap in accordance with EN ISO 11117 for all cylinders with a 0,5-14lt capacity.

ACCESSORY DEVICES

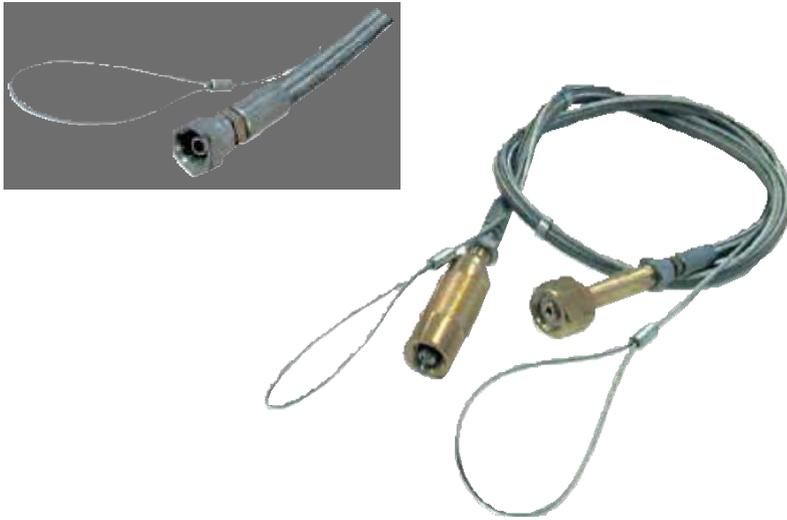
Lock ring nut for caps



code	Description
CO.100.18105	BLACK TULIP PLASTIC CAP
CO.100.18106	WHITE TULIP PLASTIC CAP
CO.100.18107	BLUE TULIP PLASTIC CAP
CO.100.18108	ORANGE TULIP PLASTIC CAP RAL 2004
CO.100.18109	BLUE TULIP PLASTIC CAP
CO.100.18110	GLASS COVER IN RED ABS
2107A	RING KNOB FOR TULIPANO PROTECTIVE CAP ØTAILORED
2107	RING KNOB Ø24 FOR TULIPANO PROTECTIVE CAP

TECHNICAL GAS FLEXIBLE HOSE

Series DFL



These hoses are specifically made for the high pressure compressed gas sector.
The shape of the connecting pipes requires the use of brass fittings specific for the use.

TECHNICAL FEATURES

PERFORMANCE

Gas	High pressure compressed gas
Operating temperature	-60° C +260°C
Minimum curve radio	35
Max working pressure	400 bar
Minimum burst pressure	1600 bar
Internal diameter	6,5 mm
External diameter	12,5 mm
Safety factor	more than 1:4 (working pressure/burst pressure)

MATERIALS

- Underlayer - Smooth PTFE extruded and sintered without high thickness joints.
- Cover - High resistance treated stainless steel AISI 304 braid.
- Reinforcement - Kevlar braided cord
- Hemming - Hoses for oxygen use with 1/4" g. nut AISI304, brass ogive
- Hoses for different gases with 1/4" g. nut AISI304 ogive

CONNECTIONS

Inlet	1/4" G. F. Dx
Outlet	1/4" G. F. Dx

DIMENSIONS

- Dimensions:
- 500 mm (without safety cord)
 - 1000/1500/2000 mm (with safety cord)

ACCESSORY DEVICES

Specific brass fitting for hoses

SAFETY DEVICES

Integrated anti-swing safety cord
Use for emptying containers is prohibited for oxygen use.

code	Description	Inlet	outlet	Size	Gas
DFLGV0105	FLEXIBLE 0,5M FOR VARIOUS GAS WITHOUT SAFETY CORD	G 1/4	G 1/4	0,5m	GAS VARI
DFLGV0110	FLEXIBLE 1M FOR VARIOUS GASES W/SAFETY CORD	G 1/4	G 1/4	1m	GAS VARI
DFLGV0115	FLEXIBLE 1,5M FOR VARIOUS GASES W/SAFETY CORD	G 1/4	G 1/4	1,5m	GAS VARI
DFLGV0120	FLEXIBLE 2M FOR VARIOUS GASES W/SAFETY CORD	G 1/4	G 1/4	2m	GAS VARI
DFLO20005	FLEXIBLE 1/4" ,5M X O2 WITHOUT SAFETY CORD	G 1/4	G 1/4	0,5m	O2
DFLO20010	FLEXIBLE 1/4" 1M FOR OXYGEN W/SAFETY CORD	G 1/4	G 1/4	1m	O2
DFLO20015	FLEXIBLE 1/4" 1,5M FOR OXYGEN W/SAFETY CORD	G 1/4	G 1/4	1,5m	O2
DFLO20020	FLEXIBLE 1/4" 2M FOR OXYGEN W/SAFETY CORD	G 1/4	G 1/4	2m	O2

CHROME FITTINGS FOR TECHNICAL GAS

Series DCODOLO



Fittings in chromed brass for gas



TECHNICAL FEATURES

MATERIALS

Body

Brass 58

CONNECTIONS

Shank 1/4" G. M

Hex nut UNI 11144/2 Oxygen

UNI 11144/5 Nitrogen

UNI 11144/8 Argon

UNI 11144/6 Aria

UNI 11144/1H Hydrogen

DIMENSIONS

Length

- 45/60/45 mm (shank)

- 22/27/28/22 mm (nut)

ACCESSORY DEVICES

Gaskets

code	Description	Inlet	outlet	Gas
9324CR	SHANK KIT UNI 11144 GR II O2 CO2 G ¼ MEDIUM CHROM FOR HOSE	G ¼	UNI 2	O2 CO2
9327CR	SHANK KIT UNI 11144 GR V N2 G ¼ D MEDIUM CHORM FOR HOSE	G ¼	UNI 5	N2
9328CR	SHANK KIT UNI 11144 GR VIII AR-HE G ¼ D MEDIUM CHORM FOR HOSE	G ¼	UNI 8	AR-HE
9329CR	SHANK KIT UNI 11144 GR I H2 G ¼ D CHROM	G ¼	UNI 1H	H2
9330CR	SHANK KIT UNI 11144 GR VI AIR G ¼ CHORM FOR HOSE	G ¼	UNI 6	ARIA
9336	SHANK KIT UNI 11144 GR X CO2 MED G ¼ CHROM	G ¼	UNI 10	CO2 MED
9332	SHANK KIT DIN 477 NR 9 O2 G ¼ D	G ¼	DIN 9	O2
9319	SHANK KIT ISO 300 BAR INERT 5145	G ¼	5145,0	INERTI
9318	SHANK KIT ISO 300 OXIDIZING BAR 5145	G ¼	5145,0	OSSIDANTI
CO.503.10834	PIN INDEX YOKE ISO 407 N2 G ¼ CR	Pin Index	G1/4	N2
CO.503.10835	PIN INDEX YOKE ISO 407 N2O G ¼ CR	Pin Index	G1/4	N2O
CO.503.10836	PIN INDEX YOKE ISO 407 O2 G¼ CHROME	Pin Index	G1/4	O2
CO.503.10836A	PIN INDEX YOKE ISO 407 O2 21.7 CR	Pin Index	21,7	O2
CO.503.10836B	PIN INDEX YOKE ISO 407 O2 3/4G CR	Pin Index	G3/4	O2
CO.503.10837	PIN INDEX YOKE ISO 407 CO2 G ¼ CR	Pin Index	G1/4	CO2
CO.503.10838	PIN INDEX YOKE ISO 407 AIR G ¼ CHROME	Pin Index	G1/4	ARIA
CO.503.10839	PIN INDEX ISO 407 AR-HE G ¼ CHROMED	Pin Index	G1/4	AR-HE

FITTINGS FOR TECHNICAL GAS

Series DCODOLO



Brass gas fittings



TECHNICAL FEATURES

MATERIALS

Body

Brass 58

CONNECTIONS

Shank

1/4" G. M

Hex nut

UNI 11144/2 Oxygen

UNI 11144/5 Nitrogen

UNI 11144/8 Argon

UNI 11144/6 Air

UNI 11144/1H Hydrogen

UNI11144/7S Acetylene braket

NF E 29-658 French acetylene

DIMENSIONS

Length

- 45/60/45 mm (shank)
- 22/27/28/22 mm (nut)

ACCESSORY DEVICES

Gaskets

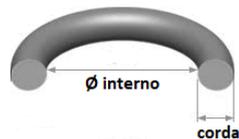
Degreasing treatment for all fittings

code	Description	Inlet	outlet	Gas
9322	SHANK SET NF E 29-650 A H C2H2 G ¼ D LONG FOR HOSE	G ¼	NF A H	C2H2
9323	SET CODOLO NF E 29-650 B O2 G ¼ FOR HOSE	G ¼	NF B	O2
9324	SHANK KIT UNI 11144 GR II O2 CO2 G ¼ D FOR HOSE	G ¼	UNI 2	O2 CO2
9327	SHANK KIT UNI 11144 GR V N2 G ¼ D FOR HOSE	G ¼	UNI 5	N2
9328	SHANK KIT UNI 11144 GR VIII AR-HE G ¼ D FOR HOSE	G ¼	UNI 8	AR-HE
9329	SHANK KIT UNI 11144 GR I H2 G ¼ D FOR HOSE	G ¼	UNI 1H	H2
9330	SHANK KIT UNI 11144 GR VI AIR G ¼ D MEDIUM	G ¼	UNI 6	ARIA
9322M	SHANK SET NF E 29-650 A H C2H2 G ¼ D LONG	G ¼	NF AH	C2H2
9323M	SET CODOLO NF E 29-650 B O2 G ¼ FOR HOSE	G ¼	NF B	O2
9324M	SHANK KIT UNI 11144 GR II O2 CO2 G ¼ MG LONG FOR HOSE	G ¼	UNI 2	O2 CO2
9327M	SHANK KIT UNI 11144 GR V N2 G ¼ M LONG FOR HOSE	G ¼	UNI 5	N2
9328M	SHANK KIT UNI 11144 GR VIII AR-HE G ¼ LONG FOR HOSE	G ¼	UNI 8	AR-HE
9329M	SHANK KIT UNI 11144 GR I H2 G ¼ FOR HOSE	G ¼	UNI 1H	H2
9330M	SHANK KIT UNI 11144 GR VI AIR G ¼ M LONG FOR HOSE	G ¼	UNI 6	ARIA
9341M	SHANK SET UNI 11144 GR IX N2O G ¼ M MEDIUM	G ¼	UNI 9	N2O
9345M	SHANKS SET UNI 11144 GR I GPL G ¼ M MED FOR HOSE	G ¼	UNI 1H	GPL
9346M	SHANK SET UNI 11144 GR I H2 G ¼ FOR HOSE	G ¼	UNI 1H	H2

TROLLEY FOR CYLINDERS



code	Description
CO.100.18052	TROLLEY FOR CYLINDER L.57
CO.100.18053	TROLLEY FOR CYLINDER L.10/14
CO.100.18055	TROLLEY FOR 14L CYLINDER
CO.100.18059	TROLLEY FOR L.27 CYLINDER



O-RINGS

Code	Description	Ø inside	Thickness
OR000E	O-RING 00EPDM 1,42X1,52	1,42	1,52
OR000N	O-RING 00NITRILE 1,42X1,52	1,42	1,52
OR000V	O-RING 00VITON 1,42X1,52 VERDE	1,42	1,52
OR101E	O-RING OR101 EPDM	2,90	1,78
OR101V	O-RING OR101 VITON	2,90	1,78
OR103E	O-RING OR103 EPDM	4,48	1,78
OR103N	O-RING OR103 NITRILE	4,48	1,78
OR103V	O-RING OR103 VITON	4,48	1,78
OR104E	O-RING OR104 EPDM	5,28	1,78
OR104EPDM	O-RING OR104 EPDM	5,28	1,78
OR104N	O-RING OR104 NITRILE	5,28	1,78
OR104V	O-RING OR104 VITON	5,28	1,78
OR5.6X1.8N	OR5.6X1.8 IN NITRILE	0,00	0,00
OR105E	O-RING OR105 EPDM	6,07	1,78
OR105ET	O-RING OR105 ETILENE PROPILENE	6,07	1,78
OR105N	O-RING OR105 NITRILE	6,07	1,78
OR105N90	O-RING OR105 NITRILE 9SHORE	6,07	1,78
OR105V	O-RING OR105 VITON 9SH VERDE	6,07	1,78
OR106E	O-RING OR106 EPDM	6,75	1,78
OR106N	O-RING OR106 NITRILE	6,75	1,78
OR106V	O-RING OR106 VITON NERO	6,75	1,78
OR107E	O-RING OR107 EPDM	7,65	1,78
OR107N	O-RING OR107 NITRILE 9SH	7,65	1,78
OR107V	O-RING OR107 VITON	7,65	1,78
OR108E	O-RING OR108 ETILENE-PROPILENE	8,73	1,78
OR108N	O-RING OR108 NITRILE 9SH	8,73	1,78
OR108V	O-RING OR108 VITON	8,73	1,78
OR110E	O-RING OR110EPDM	9,25	1,78
OR110N	O-RING OR110NITRILE 9SH	9,25	1,78
OR110V	O-RING OR110VITON	9,25	1,78
OR113E	O-RING OR113 ETILENE PROPILENE	10,77	2,62
OR113N	O-RING OR113 NITRILE	10,77	2,62
OR113V	O-RING OR113 VITON	10,77	2,62
OR113VRIC	O-RING OR113 RICARICA VITON	10,77	2,62
OR116E	O-RING OR116 EPDM 8SH	12,37	2,62
OR116N	O-RING OR116 NITRILE	12,37	2,62
OR116N90	O-RING OR116 NITRILE 9SHORE	12,37	2,62
OR116V	O-RING OR116 VITON	12,37	2,62
OR122N	O-RING OR122 NITRILE 3068	17,13	2,62
OR123N	O-RING OR123 NITRILE 9SH	17,86	2,62
OR123V	O-RING OR123 VITON	17,86	2,62
OR25X4N	OR 25X4 NITRILE	25,00	4,00
OR3131V	OR3131 VITON 2,62X32,99X38,23	32,99	2,62
ORAN19E	O-RING AN19 EPDM 410 9SH	24,99	3,53
ORAN19N	O-RING AN19 NITRILE 410 9SH	24,99	3,53
ORAN19V	O-RING AN19 VITON 4109SH	24,99	3,53
ORAN20N	O-RING AN2NITRILE (4106)	26,57	3,53
ORMS14E	O-RING MS14 EPDM 2059SH.	12,42	1,78
ORMS14N	O-RING MS14 NITRILE 2059SHORE	12,42	1,78
ORMS14V	O-RING MS14 VITON 2059SH.	12,42	1,78
ORMS15N	O-RING MS15 NITRILE 2056 9SH	14,00	1,78
ORMS17E	O-RING MS17 NEPDM 2068	17,70	1,78
ORMS17N	O-RING MS17 NITRILE 2068	17,70	1,78
ORMS19E	O-RING MS19 EPDM 2081	20,35	1,78
ORMS19N	O-RING MS19 NITRILE 2081	20,35	1,78

*Np = net price

GENERAL TERMS AND CONDITIONS OF SALE

1.0 Contracts:

- 1.1 Each sales contract is always intended to be stipulated and finalised at the headquarters of the Seller, regardless of the place where the commission is given. All the following conditions, none excluded or excepted, are considered implicitly accepted with the placing of the order, even if the customer's order forms contain clauses different from those reported here.
- 1.2 The minimum order amount must be € 150,00.

2.0 Delivery:

- 2.1 The delivery terms indicated in the order are indicative and not binding; will be respected subject to the availability of the materials necessary for production and anything else relating to it. Any and all changes made by the customer to the delivery terms after the order are not valid.
- 2.2 Delays due to fires, strikes, delays in receiving goods, export and import constraints or other causes of force majeure, authorize the Seller to move the delivery terms, relieving it of any liability. Even in the event of such delays, the buyer always has the obligation to proceed with the total withdrawal of the quantity of goods ordered and committed.
- 2.3 In no case and for no reason is the selling company required to pay compensation of any kind for any direct or indirect damage due to delivery delays and this is because the terms indicated and accepted at the time of placing the order are not binding.
- 2.4 If the shipment or delivery takes place after the deadline established by order of the customer, the costs of storing the goods in the warehouse will be due to the seller, calculated at the rate of 1.5% of the goods invoice amount for each month of stock.

3.0 Shipping and returns:

- 3.1 The goods are intended to be supplied ex warehouse of departure unless otherwise agreed. They always travel on behalf and at the risk of the customer even in the case of agreed home delivery. The supply will be considered as having taken place with the delivery of the goods to the carrier indicated by the customer or, in the absence of timely notification, chosen by the Seller. All goods will be shipped by the Seller without insurance; if it is requested, any resulting costs will be borne by the customer.
- 3.2 Complaints relating to the state of the packaging, quantity or number of pieces must be declared on the delivery note and countersigned by the carrier, the company must be informed, via email, within seven days of receipt of the goods under penalty of forfeiture of any possible right of refund or replacement.
- 3.3 Returns of goods are not permitted unless after a specific agreement with the Seller. Any returned goods always travel at the exclusive risk of the customer and will only be accepted carriage paid.
- 3.4 Complaints or any other dispute that may arise as a consequence of the purchase-sale relationships regulated by these conditions do not give the customer the right to suspend or delay payments.

4.0 Prices

- 4.1 List prices may be varied or changed without any obligation to give prior notice to the client. Prices and all other conditions relating to an order are not binding for any subsequent orders of the same items. Any different agreements do not constitute a derogation from this principle and must be considered limited to the particular case. The prices indicated on the order or in any case agreed upon refer to goods delivered ex-warehouse and shall be borne by the purchaser, in addition to transport costs, packaging, duties, customs tariffs, insurance, special duties, taxes of any kind and in general all tax and ancillary charges of the contract. The prices are subject to revision in the event of changes in the exchange rate.

5.0 Terms of Payment

- 5.1 Payments shall be made under the conditions set forth in the order exclusively to the cash office of the Seller, the transmission of the sums being at the Purchaser's risk. The possible issuing of drafts constitutes a unilateral initiative of the Seller for a more convenient form of payment and does not imply any shift of territorial jurisdiction. Any discounts granted refer only to the amounts of the goods. No discounts or rebates not agreed upon and/or forfeited shall be recognized.
- 5.2 In the event of delayed payment, the annual interest shall automatically be charged on the basis of the official discount rate plus 4 percentage points from the due date, without any need for a formal notice. This is without prejudice to the right of the manufacturer, in the event of payment arrears, to suspend any ongoing supply.

6.0 Warranty

- 6.1 The products are tested before shipment, are guaranteed in accordance with the technical documentation supplied and are provided with the identification tag, affixed by the manufacturer which cannot be removed under any circumstances.
- 6.2 The warranty is twelve months from the date of collection of the products from the Seller and is limited to the replacement, ex Seller's warehouse, of those parts whose defects will be ascertained.
- 6.3 Parts that are normally subject to wear and tear are excluded from the guarantee and the guarantee in any case lapses if there has been use that does not comply with the indications in the catalogues or instruction sheets, contamination with improper materials, poor installation or maintenance, or mechanical breakage, modification or tampering.
- 6.4 The terms for the return of materials acknowledged to be defective and/or in need of repair shall be agreed with the purchaser; however, they shall be understood as identifying the same as the delivery terms.
- 6.5 In the event of a partial or total recall of a potentially defective batch, the costs associated with tracing the product are excluded from the reimbursement, and remain the responsibility of the purchaser.
- 6.6 If the purchaser's complaint is acknowledged to be justified, the seller is entitled to repair or replace the parts found to be defective.
- 6.7 Interventions for replacement under warranty shall be carried out ex vendor's warehouse and deliveries shall be agreed in advance with the same.
- 6.8 Replacement of goods is not permitted unless specifically agreed with the Seller.
- 6.9 Compensation for any damage to the purchaser shall not exceed the invoice price of the disputed products.
- 6.10 This guarantee excludes all other possible liability of the Seller in connection with the delivered products.
- 6.11 In particular, the purchaser may not make any other claims for damages, price reductions, termination of the contract or suspension of payments.
- 6.12 If payments are suspended, the guarantee shall be automatically suspended until payments are regularized.
- 6.13 Under no circumstances shall the Seller be liable for indirect or consequential damage.

7.0 Disputes

- 7.1 The place of jurisdiction for any dispute shall be Milan

"Pursuant to articles 1341, 1342 and s.s. of the Italian Civil Code, the following clauses are specifically approved: Deliveries 2.3, Shipment and returns 3.1 - 3.4 - Payment conditions 5.2 - Guarantees 6.2 - Disputes 7.1"

SAN-O-SUB MBB SRL IS A MECHANICAL COMPANY WITH PRODUCTION HEADQUARTERS IN ITALY, FOUNDED IN MILAN IN 1934 FOR THE PRODUCTION OF INDUSTRIAL REDUCERS, VALVES AND MEDICAL PRODUCTS.



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