



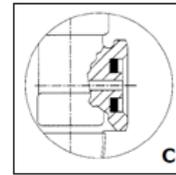
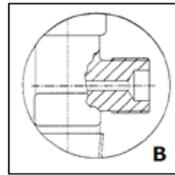
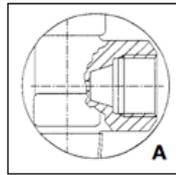
**INDUSTRIAL**



**MADE IN ITALY**



### TIPOLOGIA DI ATTACCHI



|   | GAS        | ARIA                | AZOTO                  | ARGON                  | ELIO                   | IDROGENO                 | METANO                   |
|---|------------|---------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|
|   | Simboli    |                     | N <sup>2</sup>         | Ar                     | He                     | H <sub>2</sub>           | CH <sub>4</sub>          |
|    | Dimensione | W 30 x 1/14"        | W 21,7 x 1/14"         | W 25,4 x 1/14"         | W 25,4 x 1/14"         | W 20 x 1/14" LH          | W 20 x 1/14" LH          |
|   | Rif. Norma | UNI 11144 NR 6      | UNI 11144 NR 5         | UNI 11144 NR 8         | UNI 11144 NR 8         | UNI 11144 NR 1H          | UNI 11144 NR 1H          |
|   | Tipo       | B                   | A                      | A                      | A                      | B                        | B                        |
|    | Dimensione | G 5/8"              | W 24,32 1/14"          | W 21,8 1/14"           | W 21,8 1/14"           | W 21,8 1/14" LH          | W 21,8 1/14" LH          |
|   | Rif. Norma | DIN 477 nr.13       | DIN 477 nr.10          | DIN 477 nr.6           | DIN 477 nr.6           | DIN 477 nr.1             | DIN 477 nr.1             |
|   | Tipo       | A                   | B                      | B                      | B                      | B                        | B                        |
|    | Dimensione | G 5/8"              | G 5/8"                 | G 5/8"                 | G 5/8"                 | G 5/8" LH                | G 5/8" LH                |
|   | Rif. Norma | BS 341 nr.3         | BS 341 nr.3            | BS 341 nr.3            | BS 341 nr.3            | BS 341 nr.2              | BS 341 nr.2              |
|   | Tipo       | A                   | A                      | A                      | A                      | A                        | A                        |
|   | Dimensione | Ø 30 X 1,75         | Ø 21,7 X 1,814         | Ø 21,7 X 1,814         | Ø 21,7 X 1,814         | Ø 21,7 X 1,814 LH        | Ø 21,7 X 1,814 LH        |
|   | Rif. Norma | NF E 29-650/B       | NF E 29-650/C          | NF E 29-650/C          | NF E 29-650/C          | NF E 29-650/E            | NF E 29-650/E            |
|   | Tipo       | B                   | B                      | B                      | B                      | B                        | B                        |
|  | Dimensione | M 30 X 1,75 DERECHA | M 21,7 X 1,814 IZQUIERDA | M 21,7 X 1,814 IZQUIERDA |
|   | Rif. Norma | UNE TIPO B          | UNE TIPO C             | UNE TIPO C             | UNE TIPO C             | UNE TIPO E               | UNE TIPO E               |
|   | Tipo       | B                   | B                      | B                      | B                      | B                        | B                        |

|   | GAS        | OSSIGENO                     | ANIDRIDE CARBONICA     | ACETILENE   | AMMONIACA       | G.P.L.                        | PROTOSSIDO DI AZOTO          |
|---|------------|------------------------------|------------------------|---|-----------------|-------------------------------|------------------------------|
|   | Simboli    | O <sub>2</sub>               | CO <sub>2</sub>        | C <sub>2</sub> H <sub>2</sub>                                     | NH <sub>3</sub> | C <sup>3</sup> H <sup>8</sup> | N <sub>2</sub> O             |
|  | Dimensione | W 21,7 x 1/14"               | W 21,7 x 1/14"         | Ø 20 x Ø 10 mm<br>G 5/8" LH                                       | W 30 x 1/14" LH | W 20 x 1/14" LH               | G 3/8" A                     |
|   | Rif. Norma | UNI 11144 NR 2               | UNI 11144 NR 2         | UNI 11144 NR 7S<br>NF E 29-658                                    | UNI 11144 NR 3  | UNI 11144 NR 1H               | UNI 11144 NR 9               |
|   | Tipo       | B                            | B                      | C/A   | B               | B                             | B                            |
|  | Dimensione | G 3/4"                       | W 21,8 1/14"           | Ø 15,3 X Ø 7,5  | W 21,8 1/14"    | W 21,8 1/14" LH               | G 3/8"                       |
|   | Rif. Norma | DIN 477 nr.9                 | DIN 477 nr.6           | DIN 477 nr.3  | DIN 477 nr.6    | DIN 477 nr.1                  | DIN 477 nr.11                |
|   | Tipo       | A                            | B                      | A   | B               | A                             | B                            |
|  | Dimensione | G 5/8"                       | 0,860" x 14 TPI        | G 5/8" LH   | G 1/2" A        | G 5/8" LH                     | 11/16" X 20 TPI              |
|   | Rif. Norma | BS 341 nr.3                  | BS 341 nr.8            | BS 341 nr.2   | BS 341 nr.10    | BS 341 nr.4                   | BS 341 nr.13                 |
|   | Tipo       | A                            | B                      | A   | B               | A                             | B                            |
|  | Dimensione | Ø 22,91 X 1,814              | Ø 21,7 X 1,814         | Ø 21 X Ø 10 mm<br>Ø 22,91 x 1,814 LH                              | Ø 21,7 X 1,814  | Ø 21,7 X 1,814 LH             | Ø 26 X 1,5                   |
|   | Rif. Norma | NF E 29-650/B                | NF E 29-650/C          | NF E 29-650/A<br>NF E 29-650/H                                    | NF E 29-650/C   | NF E 29-650/E                 | NF E 29-650/G                |
|   | Tipo       | A                            | B                      | C/A   | B               | B                             | A                            |
|  | Dimensione | W 22,91 X 14 DERECHA (R5/8") | M 21,7 X 1,814 DERECHA | W 22,91 - 14 LH (R5/8") IZQUIERDA<br>W 26,44 - 14 (R3/4") DERECHA |                 | M 21,7 X 1,814 IZQUIERDA      | W16,66-1/19" (R3/8") DERECHA |
|   | Rif. Norma | UNE TIPO F                   | UNE TIPO C             | UNE TIPO H  |                 | UNE TIPO E                    | UNE TIPO U                   |
|   | Tipo       | A                            | B                      | C/A   |                 | B                             | A                            |

# INDUSTRIAL VALVE FUTURA OUTLET UNI G. 25E, 230 BAR

## SERIES VI.200



FUTURA Valves for high pressure industrial and pure gas

FUTURA Valves for acetylene cylinders.



### REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/UE/(TPED)

### REFERENCE TECHNICAL STANDARDS

UNI EN ISO 10297

### PERFORMANCE

Gas O2/Air/N2O/CO2/SO2  
Inlet pressure 230 Bar  
Operating temperature -45° C +65°C

### MATERIALS

Body Chromed brass - CW617N-UNI EN 12165  
Shutter Nylon/PEEK with brass pit  
Valve seat hole for O2/N2Arg diam. 4 mm  
Valve seat hole for Co2 diam. 5,2 mm  
O-ring Painted aluminum

### CONNECTIONS

Cylinder connection 25 E - 17 E  
Outlet UNI - NF - DIN - BS - CGA  
Dip tube connection M10x1

### ACCESSORY DEVICES

Dip tubes in Aluminum  
Dip tubes in Stainless steel

### DIMENSIONS AND WEIGHT

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

### SAFETY DEVICES

Pressure relief valve (CO2-N2O)

### DOCUMENTATION

Declaration of Conformity and Instruction of Use

| code            | Description                              | Inlet      | outlet       | Gas              |
|-----------------|--|------------|--------------|------------------|
| VI.236.20525UNI | VAL.FUTURA 25E SO2 SULFUR DIOXIDE        | 25E        | NF E29-659   | ZO2              |
| VI.244.20524BS  | VAL.FUTURA 25E O2-AR-HE-N2 BS341/3       | 25E        | BS 341/3     | O2 N2 Ar-He-aria |
| VI.236.20668UNI | VAL.FUTURA 25E O2 UNI 11144/2            | 25E        | UNI/2        | O2               |
| VI.236.20520UNI | VAL.FUTURA 25E O2 UNI 11144/2 CROM       | 25E        | UNI 2        | O2               |
| VI.244.20586NF  | VAL.FUTURA 25E N2O NF E29-657 CROM.      | 25E        | NF           | N2O              |
| VI.236.20544UNI | VAL.FUTURA 25E N2O UNI 11144/9 CHROM     | 25E        | UNI 1144/9   | N2O              |
| VI.244.20401DIN | VAL.FUTURA 25E N2 DIN 10 24.32           | 25E        | DIN 10       | N2               |
| VI.244.20521UNI | VAL.FUTURA 25E N2 UNI 11144/5 CHROM.     | 25E        | UNI/5        | N2               |
| VI.123.10755    | VAL.E2000 17E N2 UNI                     | 17E        | UNI/5        | N2               |
| VI.123.10755NF  | VAL.E2000 17E N2 NF                      | 17E        | NF E 29-650C | N2               |
| VI.244.20568ISO | VAL.FUTURA 25E CO2 ISO5145 MED CHROM.    | 25E        | ISO5145      | CO2 MED          |
| VI.236.20540UNI | VAL.FUTURA 25E CO2 UNI 11144/2 CHROM     | 25E        | UNI/2        | CO2              |
| VI.236.20673NF  | VAL.FUTURA 25E CO2 NF E29-653            | 25E        | NF E29-659   | CO2              |
| VI.225.10604    | VAL.E3000 31.3X14 CONICAL C2H2 BRACKET   | GC31,3X14  | STAFFA       | C2H2             |
| VI.225.20601    | VAL.FUTURA 36.6X2 CONICAL C2H2 G5/8 SX   | GC 36,6X2  | G5/8 SX      | C2H2             |
| VI.225.20602    | VAL.FUTURA 36.6X2 CONICAL C2H2 BRACKET   | GC 36,6X2  | STAFFA       | C2H2             |
| VI.225.20603    | VAL.FUTURA 31.3X14 CONICAL C2H2 G5/8 SX  | GC 31,3X14 | UNI7F - NFA  | C2H2             |
| VI.225.10604DIN | VAL.E3000 GC31.3X14" C2H2 BRACKET DIN477 | GC 31,3X14 | DIN 3        | C2H2             |
| VI.244.20569UNI | VAL.FUTURA 25E C2H2 BRACKET UNI 11144/7S | 25E        | UNI/7S       | C2H2             |
| VI.244.20405    | VAL.FUTURA 25E NF E29-658 (C2H2 LEFT)    | 25E        | NF E29-658   | C2H2             |
| VI.244.20402UNI | VAL.FUTURA 25E AIR UNI 11144/6 CROM.     | 25E        | UNI/6        | ARIA             |
| VI.244.20402NF  | VAL.FUTURA 25E AIR NF 24X2               | 25E        | NF E29-650/B | ARIA             |
| VI.244.20533DIN | VAL.FUTURA 25E AIR DIN 300BAR CLOSURE 12 | 25E        | DIN13        | ARIA             |
| VI.244.20543DIN | VAL.FUTURA 25E AIR DIN 200BAR LOCK M12X1 | 25E        | DIN13        | ARIA             |
| VI.244.20403UNI | VAL.FUTURA 25E AR-HE UNI 11144/8         | 25E        | UNI/8        | Ar-He            |
| VI.236.20522UNI | VAL.FUTURA 25E H2 UNI 11144/1            | 25E        | UNI/1H       | H2               |

# INDUSTRIAL VALVE FUTURA OUTLET UNI G 25E, 300 BAR

SERIES VI.200



300bar

FUTURA Valves for high pressure industrial and pure gas cylinders.

**REFERENCE LEGISLATIVE STANDARDS**

π1370 Directive 2010/35/UE/(TPED)

**REFERENCE TECHNICAL STANDARDS**

UNI EN ISO 10297

**PERFORMANCE**

Gas O<sub>2</sub>/Air/N<sub>2</sub>O/CO<sub>2</sub>/SO<sub>2</sub>  
 Inlet pressure 300 Bar  
 Operating temperature -45° C +65°C

**MATERIALS**

Body Chromed brass -CW617N-UNI EN 12165  
 Shutter PEEK with brass put  
 Valve seat hole for O<sub>2</sub>/N<sub>2</sub>Arg diam. 4 mm  
 O-ring EPDM  
 Valve knob Painted aluminum

**CONNECTIONS**

Cylinder connection 25E - 17E  
 Outlet ISO 5145  
 Dip tube connection M10x1

**ACCESSORY DEVICES**

Dip tubes in Aluminum  
 Dip tubes in Stainless steel

**DIMENSIONS AND WEIGHT**

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

**SAFETY DEVICES**

Pressure relief valve (CO<sub>2</sub>-N<sub>2</sub>O)

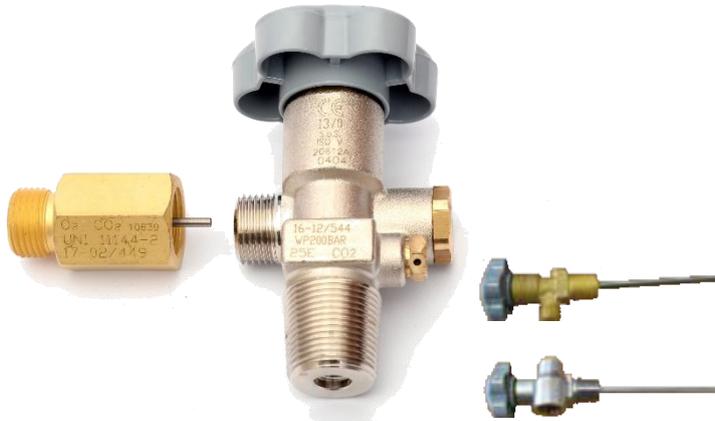
**DOCUMENTATION**

Declaration of Conformity and Instruction of Use

| code            | Description                            | Inlet | outlet   | Gas            |
|-----------------|--|-------|----------|----------------|
| VI.244.20400ISO | VAL.FUTURA 25E 300 BAR INERTS ISO 5145 | 25E   | ISO 5145 | INERTI         |
| VI.244.20401ISO | VAL.FUTURA 25E 300 BAR OSS. ISO 5145   | 25E   | ISO 5145 | O <sub>2</sub> |

# FUTURA RESIDUAL VALVES 25E

SERIES VI.400



Residual valves mod. FUTURA in chromed brass is 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.



**CO.400 ADAPTER FOR FUTURA VALVE**  
High pressure brass body with stainless steel tip.  
Connections are according to UNI/NF/BS/DIN standards.

## REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/UE/(TPED)

## REFERENCE TECHNICAL STANDARDS

UNI EN ISO 10297

## PERFORMANCE

Gas O2/Air/N2O/CO2  
Inlet pressure 230 Bar  
Operating temperature -45° C +65° C  
Test operating pressure 276 bar (CO2-N2O excluded)  
Residual pressure 2,5/4bar

## MATERIALS

Body Chromed brass -CW617N-UNI EN 12165  
Shutter Nylon with brass pit  
Valve seat hole for O2/N2Arg diam. 4 mm  
Valve seat hole for CO2 diam. 5,2 mm  
O-ring EPDM  
Knob Grey painted aluminum

## CONNECTIONS

Inlet 25 E – 17E  
Outlet UNI - NF - DIN - BS - CGA  
Filling fitting UNI 11144/2 (Med. Oxygen)  
UNI 11144/6 (Med. Air)  
UNI 11144/10 (Med. CO2)  
Dip tube connection M10x1

## DIMENSIONS AND WEIGHT

Dimensions 120 x 60 x 52 mm  
Weight 0,75kg

## ACCESSORY DEVICES

Charge adapter

## SAFETY DEVICES

Pressure relief valve (CO2-N2O)

## DOCUMENTATION

Declaration of Conformity and Instruction for Use

| code             | Description                             | Inlet | outlet     | Gas      |
|------------------|---|-------|------------|----------|
| VI.448.20610BS   | VAL.FUTURE 25E AR-HE BS3 RES.           | 25E   | BS3        | Ar-He    |
| VI.448.20610DIN6 | VAL.FUTURE 25E AR-HE DIN6 RES.          | 25E   | DIN6       | Ar-He    |
| VI.448.20610UNI  | VAL.FUTURE 25E AR-HE UNI 11144/8 RES.   | 25E   | UNI/8      | Ar-He    |
| VI.448.20610ES   | VAL.FUT 25E AR-HE 21.7X1/14" SPAIN RES. | 25E   | UNE C      | Ar-He    |
| VI.448.20611DIN6 | VAL.FUTURE 25E O2 DIN6 RES.             | 25E   | DIN6       | O2       |
| VI.448.20611UNI  | VAL.FUTURA 25E O2 UNI 11144/2 RES.      | 25E   | UNI/2      | O2       |
| VI.448.20613UNI  | VAL.FUTURA 25E N2 UNI 11144/5 RES.      | 25E   | UNI/5      | N2       |
| VI.448.20616UNI  | VAL.F.PACCHI 25E N2 UNI 11144/5 RES.    | 25E   | UNI/5      | N2       |
| VI.448.20617UNI  | VAL.FUTURA 25E AIR UNI 11144 RES.       | 25E   | UNI/6      | ARIA     |
| VI.448.20618UNI  | VAL.FUTURA 25E CO2 UNI 11144 MED. RES.  | 25E   | UNI/10     | CO2 MED  |
| VI.448.20630NF   | VAL.FUTURE 25E AR-HE-N2 NF E29-653 RES. | 25E   | NF E29-656 | N2 Ar-He |
| VI.448.20631NF   | VAL.FUTURE 25E CO2 NF E29-653 RES.      | 25E   | NF E29-656 | CO2      |
| VI.448.20632NF   | VAL.FUTURE 25E O2 NF E29-656 RES.       | 25E   | NF E29-656 | O2       |
| VI.448.20634UNI  | VAL.FUTURA 25E H2 UNI 11144/1 RES.      | 25E   | UNI/2      | H2       |
| VI.448.20608NF   | VAL.FUTURA 25E AIR NF E29-656 MED RES.  | 25E   |            | ARIA     |
| VI.448.20635DIN  | VAL.FUTURE 25E CO2 DIN 477/6 RES.       | 25E   | DIN6       | CO2      |
| VI.470.20612UNI  | VAL.FUTURA 25E CO2 UNI 11144/2 RES. NEW | 25E   | UNI/2      | CO2      |
| VI.448.20610BS   | VAL.FUTURE 25E AR-HE BS3 RES.           | 25E   | BS3        | Ar-He    |
| VI.448.20598NF   | VAL.FUTURA 25E N2O NF RES.              | 25E   |            | N2O      |
| VI.448.20598UNI  | VAL.FUTURA 25E N2O UNI RES.             | 25E   | UNI/9      | N2O      |
| CO.100.10638     | ADAPTER FOR FUTURA RES N2               | UNI 5 |            | N2       |
| CO.100.10639     | ADAPTER FOR FUTURA RES O2-CO2 UNI       | UNI 2 |            | O2 CO2   |
| CO.100.10640     | ADAPTER FOR FUTURA RES AR-HE            | UNI 8 |            | Ar-He    |

# FUTURA RESIDUAL VALVE 17E 18X1,5

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 that prevents from 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

RE

## REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/UE/(TPED)

## REFERENCE TECHNICAL STANDARDS

UNI EN ISO 10297

## PERFORMANCE

Gas O<sub>2</sub>/Air/N<sub>2</sub>O/CO<sub>2</sub>  
Inlet pressure 230 Bar  
Operating temperature -45° C +65°C  
Test operating pressure 276 bar  
(CO<sub>2</sub> -N<sub>2</sub>O excluded)  
Residual pressure 2,5/4bar

## MATERIALS

Body Chromed-brass CW617N-UNI EN 12165  
Shutter Nylon with brass pit  
Valve seat hole for O<sub>2</sub>/N<sub>2</sub>Arg diam. 4 mm  
Valve seat hole for CO<sub>2</sub> diam. 5,2 mm  
O-ring EPDM  
Knob Grey painted aluminum

## CONNECTIONS

Inlet 25 E – 17E  
Outlet UNI - NF - DIN - BS - CGA  
Filling fitting UNI 11144/2 (Med. Oxygen)  
UNI 11144/6 (Med. Air)  
UNI 11144/10 (Med. CO<sub>2</sub>)  
Dip tube connection M10x1

## DIMENSIONS AND WEIGHT

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

## ACCESSORY DEVICES

Charge adapter

## SAFETY DEVICES

Pressure relief valve (CO<sub>2</sub>-N<sub>2</sub>O)

## DOCUMENTATION

Declaration of Conformity and Instruction of Use

| code             | Description  | Inlet | outlet      | Gas                            |
|------------------|--|-------|-------------|--------------------------------|
| VI.448.2059NF    | VAL.FUTURE 17E CO <sub>2</sub> NF E29-653 RES.             | 17E   | NF E29-653  | CO <sub>2</sub>                |
| VI.448.20614NF   | VAL.FUTURE 17E O <sub>2</sub> NF E29-656 RES.              | 17E   | NF E29-653  | O <sub>2</sub>                 |
| VI.448.20615DIN6 | VAL.FUTURE 17E O <sub>2</sub> DIN 6 RES.                   | 17E   | DIN6        | O <sub>2</sub>                 |
| VI.448.20615UNI  | VAL.FUTURA 17E O <sub>2</sub> UNI 11144/2 RES.             | 17E   | UNI/2       | O <sub>2</sub>                 |
| VI.448.20619UNI  | VAL.FUTURA 17E CO <sub>2</sub> UNI 11144 MED RES.          | 17E   | UNI/10      | CO <sub>2</sub> MED            |
| VI.448.20620UNI  | VAL.FUTURA 17E N <sub>2</sub> O UNI 11144 RES.             | 17E   | UNI/9       | N <sub>2</sub> O               |
| VI.448.20621NF   | FUTURE VALUE 17E CO <sub>2</sub> NF AVERAGE RES.           | 17E   | E29-656 MED | CO <sub>2</sub> MED            |
| VI.448.20633UNI  | VAL.FUTURA 17E N <sub>2</sub> UNI 11144/5 RES.             | 17E   | UNI/5       | N <sub>2</sub>                 |
| VI.470.20622UNI  | VAL.FUTURA 17E CO <sub>2</sub> UNI 11144/2 RES. NEW        | 17E   | UNI/2       | CO <sub>2</sub>                |
| CO.100.10638     | ADAPTER FOR FUTURA RES N <sub>2</sub>                      | UNI 5 |             | N <sub>2</sub>                 |
| CO.100.10639     | ADAPTER FOR FUTURA RES O <sub>2</sub> -CO <sub>2</sub> UNI | UNI 2 |             | O <sub>2</sub> CO <sub>2</sub> |
| CO.100.10640     | ADAPTER FOR FUTURA RES AR-HE                               | UNI 8 |             | Ar-He                          |

# CO2 VALVES AND DUAL-PHASE MIXTURES

SERIES VI.400



This device is specially designed and created for the use of the R744 (CO2) refrigerant fluid with the possibility of withdrawing the liquid phase through the predisposition for the assembly of the dip tube, and the gaseous phase. Combined with suitable connections it can also be used in the compressed air supply of screwdrivers for the motorsport and automotive sectors as it guarantees, thanks to its generous cross sections, high flow rates.

**MOQ 200 pieces**

**REFERENCE LEGISLATIVE STANDARDS**

π1370 Directive 2010/35/UE/(TPED)

**REFERENCE TECHNICAL STANDARDS**

UNI EN ISO 10297

**PERFORMANCE**

|                         |                     |
|-------------------------|---------------------|
| Gas                     | O2/Air/N2O/CO2      |
| Inlet pressure          | 230 Bar             |
| Operating temperature   | -45° C +65° C       |
| Test operating pressure | 276 bar             |
|                         | (CO2 -N2O excluded) |
| Residual pressure       | 2,5/4bar            |

**MATERIALS**

|                              |                                   |
|------------------------------|-----------------------------------|
| Body                         | Chromed-brass CW617N-UNI EN 12165 |
| Shutter                      | Nylon with brass pit              |
| Valve seat hole for O2/N2Arg | diam. 4 mm                        |
| Valve seat hole for CO2      | diam. 5,2 mm                      |
| O-ring                       | EPDM                              |
| Knob                         | Grey painted aluminum             |

**CONNECTIONS**

|                     |             |
|---------------------|-------------|
| Inlet               | 25 E – 17E  |
| Outlet              | UNI 11144/2 |
| Filling fitting     | UNI 11144/2 |
| Dip tube connection | M10x1       |

**DIMENSIONS AND WEIGHT**

|            |                  |
|------------|------------------|
| Dimensions | 120 x 60 x 52 mm |
| Weight     | 0,75Kg           |

**ACCESSORY DEVICES**

Dip tube, Cap

**SAFETY DEVICES**

Pressure relief valve (CO2-N2O)

**DOCUMENTATION**

Declaration of Conformity and Instructions of Use

| code         | Description                            | Inlet | outlet   | Gas |
|--------------|--|-------|----------|-----|
| VI.371.20800 | VAL.FUTURA 25E DOUBLE PHASE 21.7       | 25E   | 2 x UNI2 | CO2 |
| 2037         | DEEP TUBE SST 10X,1 SP.10X1,5 1350 MM. | M10   |          |     |
| 2035         | DEEP TUBE 10X,1 SP.10X1,5 1118 MM.     | M10   |          |     |
| 2038         | DEEP TUBE 10X,1 SP.10X1,5 1350 MM.     | M10   |          |     |
| 2036         | DEEP TUBE 10X,1 SP.10X1,5 740MM.       | M10   |          |     |



It protects and repairs the unit in case the cylinder falls while operations such as welding or cutting are carried out. The large knob facilitates handling of the cylinder. Painted aluminum structure complete with fixing ring.

**REFERENCE TECHNICAL STANDARDS**

EN ISO 11117

**TECHNICAL FEATURES**

**MATERIALS**

Body Painted aluminum

**CONNECTION**

To the cylinder 7 stainless steel screws

**ADAPTABILITY**

To all cylinders up to 50lt capacity

**DIFFERENT VERSIONS**

Different colors are available, customizable logos

**SAFETY**

Fall test EN ISO 11117

**ACCESSORY DEVICES**

Aluminium fixing

| code         | Description                 |
|--------------|-----------------------------|
| CO.100.18091 | COMBITEK ALUMINUM COVER NEW |

# EURO 2000 CHROMED VALVE, OUTLET UNI G. 17E M18X1,5

SERIES VI.1



Euro 2000 valve in chromed brass for industrial and pure gas cylinders with 17 E connection. Compact device suitable for application on small-sized cylinders.



**REFERENCE LEGISLATIVE STANDARDS**  
 π1370 Directive 2010/35/UE/(TPED)

**REFERENCE TECHNICAL STANDARDS**  
 UNI EN ISO 10297

**PERFORMANCE**  
 Gas O<sup>2</sup>/Air/N<sup>2</sup>O/CO<sup>2</sup>  
 Inlet pressure 230 Bar  
 Operating temperature -45° C +65°C  
 Test operating pressure 276 bar (CO<sub>2</sub> -N<sub>2</sub> excluded)  
 Single test

**MATERIALS**  
 Body Chromed brass-CW617N-UNI EN 12165  
 Shutter Nylon  
 Seat hole 2,4 mm.  
 O-ring EPDM  
 Valve knob Nylon

**CONNECTIONS**  
 Inlet 25 E  
 Outlet UNI - NF - DIN - BS - CGA  
 Dip tube connection M6x1

**DIMENSIONS AND WEIGHT**  
 Dimensions 95 x 45 x 40 mm  
 Weight 0,645Kg

**SAFETY DEVICES**  
 Pressure relief valve (CO<sub>2</sub>-N<sub>2</sub>O)

**DOCUMENTATION**  
 Declaration of Conformity and Instructions of Use

| code             | Description   | Inlet   | outlet   | Gas             |
|------------------|---|---------|----------|-----------------|
| VI.126.10860     | VAL.E2000 RED. 17E H <sub>2</sub> -PROPANE UNI      | 17E     | UNI/1H   | H <sub>2</sub>  |
| VI.123.10743     | VAL.E2000 17E AR-HE UNI                             | 17E     | UNI/8    | Ar-He           |
| VI.123.10745     | VAL.E2000 17E AIR DIN 200BAR                        | 17E     | DIN13    | ARIA            |
| VI.123.10746     | VAL.E2000 17E O <sub>2</sub> DIN 477/9              | 17E     | DIN9     | O <sub>2</sub>  |
| VI.123.10747     | VAL.E2000 17E AIR DIN 300BAR                        | 17E     | DIN13    | ARIA            |
| VI.123.10752     | VAL.E2000 17E CO <sub>2</sub> UNI MEDICAL           | 17E     | UNI 10   | CO <sub>2</sub> |
| VI.123.10755     | VAL.E2000 17E N <sub>2</sub> UNI                    | 17E     | UNI/5    | N <sub>2</sub>  |
| VI.126.10861     | VAL.E2000 RED. 17E O <sub>2</sub> UNI               | 17E     | UNI 2    | O <sub>2</sub>  |
| VI.123.10740     | VAL.E2000 17E O <sub>2</sub> BS341/3                | 17E     | BS.341/3 | O <sub>2</sub>  |
| VI.123.10754     | VAL.E2000 17E O <sub>2</sub> NF                     | 17E     | NF B     | O <sub>2</sub>  |
| VI.126.10861DIN6 | VAL.E2000 RED. 17E O <sub>2</sub> DIN6              | 17E     | DIN6     | O <sub>2</sub>  |
| VI.126.10863     | VAL.E2000 RED. 17E CO <sub>2</sub> UNI W/BD.        | 17E     | UNI/2    | CO <sub>2</sub> |
| VI.123.10751     | VAL E2000 18X1.5 AIRTYPE 60 W27X2 W/BD              | M18x1,5 |          | ARIA            |
| VI.123.10756D    | VAL.E2000 M18XAIR DIN 200BAR W/BD AIR BREATHING     | M18x1,5 | DIN13    | ARIA            |
| VI.123.10757D    | VAL.E2000 M18X1.5 AIR DIN 300BAR W/BD AIR BREATHING | M18x1,5 | DIN13    | ARIA            |
| VI.123.10758     | VAL.E2000 M18X1.5 AIR DIN 200BAR W/BD CH            | M18x1,5 | DIN13    | ARIA            |
| VI.123.10759     | VAL.E2000 17E O <sub>2</sub> CGA540                 | 17E     | CGA540   | O <sub>2</sub>  |
| VI.126.10761     | VAL.E2000 RED.17E CO <sub>2</sub> DIN W/BD.         | 17E     | DIN6     | CO <sub>2</sub> |
| VI.126.10863BS   | VAL.E2000 RED. 17E CO <sub>2</sub> BS-8 W/BD.       | 17E     | BS 8     | CO <sub>2</sub> |
| VI.113.10760     | CORNER VALVE 25E UNI 11144/2 (O <sub>2</sub> )      | 25E     | UNI 2    | O <sub>2</sub>  |
| VI.113.10762     | VAL. E2000 INLINE 25E O <sub>2</sub> UNI2           | 25E     | UNI 2    | O <sub>2</sub>  |

# VALVES FOR BREATHING AIR

SERIES VI.123



## REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/UE/(TPED)

## REFERENCE TECHNICAL STANDARDS

UNI EN ISO 10297

## PERFORMANCE

|                         |              |
|-------------------------|--------------|
| Gas                     | Air          |
| Inlet pressure          | 200/300 Bar  |
| Operating temperature   | -45° C +65°C |
| Test operating pressure | 300/450 bar  |
| Single test             |              |

## MATERIALS

|           |                                   |
|-----------|-----------------------------------|
| Body      | Chromed brass-CW617N-UNI EN 12165 |
| Shutter   | Nylon with brass pit              |
| Seat hole | 2,4 mm.                           |
| O-ring    | EPDM                              |
| Knob      | Nylon                             |

## CONNECTIONS

|                     |                          |
|---------------------|--------------------------|
| Inlet               | 17 E-181,5 -M25X2EN144-1 |
| Outlet              | EN144-1-2                |
| Dip tube connection | M8X1                     |

## DIMENSIONS AND WEIGHT

|            |                 |
|------------|-----------------|
| Dimensions | 95 x 45 x 40 mm |
| Weight     | 0,645Kg         |

## SAFETY DEVICES

High pressure gauge

## DOCUMENTATION

Declaration of Conformity and Instructions of Use

Euro 2000 valve in chromed brass for breathing air with high pressure gauge.

This compact device is suitable for application on small cylinders.

| code            | Description  | Inlet   | outlet | Gas  |
|-----------------|--|---------|--------|------|
| VI.123.10741    | VAL.E2000 M18X1.5 AIR W30X14 UNI                       | M18x1,5 | UNI/6  | ARIA |
| VI.123.10745    | VAL.E2000 17E AIR DIN 200BAR                           | 17E     | DIN13  | ARIA |
| VI.123.10747    | VAL.E2000 17E AIR DIN 300BAR                           | 17E     | DIN13  | ARIA |
| VI.150.10736    | VAL.E2000 17E AIR DIN 200BAR W/GAUGE CHR CHROME        | 17E     | DIN13  | ARIA |
| VI.150.10735    | VAL.E2000 17E AIR DIN 300BAR W/GAUGE CHR CHROME        | 17E     | DIN13  | ARIA |
| VI.123.10748    | VAL.E2000 17E AIR W30X14 UNI                           | 17E     | UNI 6  | ARIA |
| VI.123.10756    | VAL.E2000 M18X1.5 AIR DIN 200BAR BREATH. AIR BREATHING | M18x1,5 | DIN13  | ARIA |
| VI.123.10757    | VAL.E2000 M18X1.5 AIR DIN 300BAR AIR BREATHING         | M18x1,5 | DIN13  | ARIA |
| VI.150.10737    | VAL.E2000 M18X1.5 AIR DIN 200BAR W/GAUGE CHROME        | M18x1,5 | DIN13  | ARIA |
| VI.150.10739    | VAL.E2000 M18X1.5 AIR DIN 300BAR W/GAUGE               | M18x1,5 | DIN13  | ARIA |
| VI.244.20543DIN | VAL.FUTURA 25E AIR DIN 200BAR LOCK M12X1               | 25E     | DIN13  | ARIA |
| VI.244.20533DIN | VAL.FUTURA 25E AIR DIN 300BAR CLOSURE 12               | 25E     | DIN13  | ARIA |
| VS.164.18036    | TOP HANDLE M25X2 DIN232 BAR                            | M25X2   |        | ARIA |
| VS.164.18035    | TOP HANDLE M25X2 DIN300 BAR                            | M25X2   |        | ARIA |

## VALVE FOR BREATHING AIR WITH LATERAL KNOB

### SERIES VI.123



Euro 2000 valve in chromed brass for breathing air with high pressure gauge.  
This compact device is suitable for application on small cylinders.

#### REFERENCE LEGISLATIVE STANDARDS

π1370 Directive 2010/35/UE/(TPED)

#### REFERENCE TECHNICAL STANDARDS

UNI EN ISO 10297

#### PERFORMANCE

|                         |              |
|-------------------------|--------------|
| Gas                     | Air          |
| Inlet pressure          | 230/300 Bar  |
| Operating temperature   | -45° C +65°C |
| Test operating pressure | 300/450 bar  |
| Single unit test        |              |

#### MATERIALS

|            |                                   |
|------------|-----------------------------------|
| Body       | Chromed-brass CW617N-UNI EN 12165 |
| Shutter    | Nylon with brass tip              |
| Seat hole  | 2,4 mm.                           |
| O-ring     | EPDM                              |
| Valve knob | Nylon                             |

#### CONNECTIONS

|                     |                          |
|---------------------|--------------------------|
| Inlet               | 17 E-181,5 -M25X2EN144-1 |
| Outlet              | EN144-1-2                |
| Dip tube connection | M8X1                     |

#### DIMENSIONS AND WEIGHT

|           |                 |
|-----------|-----------------|
| Dimension | 95 x 45 x 40 mm |
| Weight    | 0,645Kg         |

#### SAFETY DEVICES

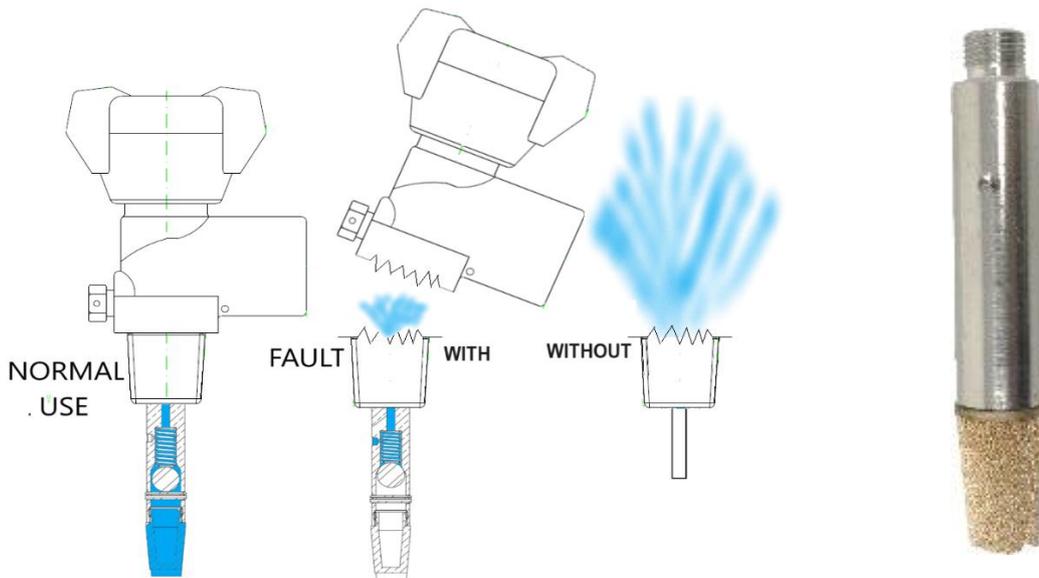
High pressure gauge

#### DOCUMENTATION

Declaration of Conformity and Instructions of Use

| code          | Description  | Inlet   | outlet | Gas  |
|---------------|--|---------|--------|------|
| VI.150.10737L | VAL SIDE HANDLE M18X1.5 AIR DIN 200BAR<br>W/MAN CHROME | M18x1,5 | DIN13  | ARIA |
| VI.150.10739L | VAL SIDE HANDLE M18X1.5 AIR DIN 300BAR<br>W/MAN CHROME | M18x1,5 | DIN13  | ARIA |

## EXTRA FLOW SAFETY DIP TUBE



This safety valve intervenes should the valve break or be damaged, reducing the amount of air outflow, preventing the cylinder from moving and creating danger to people and property

| code  | Description                  | Inlet |
|-------|------------------------------|-------|
| 2030  | DEEP TUBE EXTRA FLOW M6X0,75 | M6    |
| 2030A | DEEP TUBE EXTRA FLOW M8X0,75 | M8    |

SAFETY: LIMITS GAS OUTPUT IN THE EVENT OF A VALVE RUPTURE

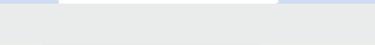


## SINTERED FILTERS, CAPS AND KNOBS

| code  | Description   |
|-------|---|
| 1978  | DEEP TUBE W/BRONZE FILTER M6                        |
| 1144  | PLUG G5/8   |
| 1152  | PLUG G5/8 300 BAR                                   |
| 1023  | 3-ARM BLUE RUBBER HANDWHEEL 300BAR 5MM METAL INSERT |
| 1023A | 3-ARM BLACK PVC HANDWHEEL 300BAR 5MM METAL INSERT   |
| 1027  | BLACK PVC HANDWHEEL 300BAR 5MM METAL INSERT         |

Np = Net price

## DIP TUBES

| code  | Description                        | Inlet | Size  | Gas   |
|-------|------------------------------------|-------|-------|---|
| 1039  | DEEP TUBE M6X0.75 BRASS            | M6    | 50,0  |  |
| 1978  | DEEP TUBE W/BRONZE FILTER M6       |       |       |  |
| 2030  | DEEP TUBE EXTRA FLOW M6X0,75       | M6    |       |  |
| 2030A | DEEP TUBE EXTRA FLOW M8X0,75       | M8    |       |   |
| 2039  | DEEP TUBE M6X0.75 CLOSED W/PIERCE  | M6    | 4,0   |   |
| 2036  | DEEP TUBE 10X,1 SP.10X1,5 740MM.   | M10   | 74,0  |   |
| 2038  | DEEP TUBE 10X,1 SP.10X1,5 1350 MM. | M10   | 135,0 |   |
| 2035  | DEEP TUBE 10X,1 SP.10X1,5 1118 MM. | M10   | 111,2 |   |

# STEEL CAP FOR CYLINDERS

## SERIES DCAPP



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



| 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  |
| CO.100.18103CHIAV | KEY TULIP CAP                  |

### REFERENCE TECHNICAL STANDARDS

EN ISO 11117

### TECHNICAL FEATURES

#### MATERIALS

Body Galvanized steel

#### CONNECTIONS

To the cylinder through mouting key

#### ADAPTABILITY

To all cylinders with a 5 -50 lt capability

#### DIFFERENT VERSIONS

Tulip cap, galvanized steel open on both sides.  
Closed cap, gray 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 DEVICES

Mounting keys

# ABS TULIP CAP FOR CYLINDERS

## SERIES DCAPP



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



### 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

Coloured version White, blue, light blue, yellow, red

#### SAFETY

Fall test EN ISO 11117

#### 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               |
| 2107A        | RING KNOB FOR TULIPANO PROTECTIVE CAP ØTAILORED |
| 2107         | RING KNOB Ø24 FOR TULIPANO PROTECTIVE CAP       |

## PROTECTIVE COVER FOR 25E SNAP REDUCING VALVE

SERIES CO.100



### REFERENCE TECHNICAL STANDARDS

EN ISO 11117

### TECHNICAL FEATURES

#### MATERIALS

Body Nylon

#### CONNECTIONS

To the cylinder through 5 stainless steel screws

#### ADATTABILITY

To all the cylinders with capacity between 0,5 -14 lt

#### DIFFERENT VERSIONS

Black goblet-shaped cover  
Universal black cover  
Customizable color and branding

#### SAFETY

Fall test  
Fire resistance rating

EN ISO 11117  
V2

#### ACCESSORY DEVICES

Hooks for stretcher  
ABS ring

Protective cover that protects the valve group, guaranteeing maximum safety during transport and in the event of the cylinder falling. For cylinders with a capacity of 0.5-14 liters with ring nut.

| code            | Description                                     | Material | Size             |
|-----------------|---|----------|------------------|
| CO.100.18065    | BLACK UNIVERSAL GROUP COVER                     | Nylon    | alt 165mm ø140mm |
| 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       |          |                  |

# MINI REDUCER WITH PRESSURE GAUGE FOR HELIUM BALLOON INFLATORS

SERIES RI.300



Brass body with over pressure valve, 5 bar outlet pressure with on-call hose holder.

## REFERENCE TECHNICAL STANDARDS

EN ISO 2503

## APPLICATION

For inflating balloons

## TECHICAL FEATURES

### PERFORMANCE

|                       |   |
|-----------------------|---|
| Gas                   | Helium  |
| Inlet pressure        | 230 Bar Max<br>with hose holder to be pressed |
| Operating temperature | -15° C +60°C                                  |

### MATERIALS

|           |  |
|-----------|--|
| Body      | Brass -CW617N-UNI EN 12165                   |
| Diaphragm | Piston                                       |
| Filter    | in bronze placed inside the inlet connection |

### GAUGE

|  |                        |
|--|------------------------|
| ISO 5171 diam. 40 mm, class 2.5 (on demand*) |                        |
| High Pressure gauge                          | Full scale 0/315 bar * |

### CONNECTIONS

|        |                               |
|--------|-------------------------------|
| Inlet  | UNI - NF - DIN - BS - CGA     |
| Outlet | Hose holder with black rubber |

### SAFETY DEVICES

Over pressure valve

### SAFETY

Single unit test

On-call hose holder

| code            | Description                             | Inlet   | outlet                | Gas   |
|-----------------|---|---------|-----------------------|-------|
| RI.300.12020    | MINI AR-HE REDUCER FOR BALLS W/GAUGE    | UNI 8   | Portagomma a chiamata | Ar-He |
| RI.300.12020DIN | MINI DIN10 REDUCER 24.32 PAL W/GAUGE    | DIN 6   | Portagomma a chiamata | Ar-He |
| RI.300.12021    | MINI AR-HE REDUCER FOR BALLOONS         | UNI 8   | Portagomma a chiamata | Ar-He |
| RI.300.12021BS  | MINI AR-HE BS REDUCER FOR BALLOONS      | BS 3    | Portagomma a chiamata | Ar-He |
| RI.300.12021DIN | MINI AR-HE REDUCER FOR BALLOONS         | DIN 6   | Portagomma a chiamata | Ar-He |
| RI.300.12022NF  | MINI AR-HE 21.7 NF REDUCER FOR BALLOONS | AFNOR C | Portagomma a chiamata | Ar-He |

# PRESSURE METER

SERIES CO.629



The pressure meter allows to check the pressure in the cylinder in the event of doubt.

## APPLICATION

High pressure control of the cylinder

## TECHNICAL FEATURES

### PERFORMANCE

|                       |                               |
|-----------------------|-------------------------------|
| Gas                   | O2-N2-H2-Ar/He/MIX/Air-N2O-AD |
| Inlet pressure        | 230 Bar Max                   |
| Operating temperature | -15° +60°                     |

### MATERIALS

|      |                            |
|------|----------------------------|
| Body | Brass -CW617N-UNI EN 12165 |
|------|----------------------------|

### GAUGE

|                                 |                      |
|---------------------------------|----------------------|
| Gauge                           | Full scale 0/400 bar |
| ISO 5171 diam. 63 mm, class 2.5 |                      |
| Gauge cover                     | Colored Nylon        |

### CONNECTIONS

|                |                               |
|----------------|-------------------------------|
| Inlet          | UNI - NF - DIN - BS - CGA     |
| Of the reducer | Swivel connection with o-ring |

### SAFETY

Single unit test

| code            | Description                          | Inlet     | Gas     |
|-----------------|--------------------------------------|-----------|---------|
| CO.629.18151    | O2 PRESSURE METER                    | UNI 2     | O2      |
| CO.629.18151DIN | O2 PRESSURE METER STANDARD DIN G3/4" | DIN 9     | O2      |
| CO.629.18151NF  | O2NF PRESSURE METER                  | NF B      | O2      |
| CO.629.18151NTX | NITROX PRESSURE METER 26X2 VOL.GREEN | NITROX    | NTX     |
| CO.629.18152    | N2 PRESSURE METER                    | UNI 5     | N2      |
| CO.629.18152NF  | PRESSURE METER N2 NF                 | AFNOR C   | N2      |
| CO.629.18153    | AR-HE PRESSURE METER                 | UNI 8     | Ar-He   |
| CO.629.18153BS  | AR-HE BS-3 PRESSURE METER            | BS 3      | Ar-He   |
| CO.629.18153NF  | AR-HE NF PRESSURE METER              | AFNOR C   | Ar-He   |
| CO.629.18154    | N2O PRESSURE METER                   | UNI9      | N2O     |
| CO.629.18155    | AIR PRESSURE METER                   | UNI 6     | ARIA    |
| CO.629.18156    | H2 PRESSURE METER                    | UNI 1H    | H2      |
| CO.629.18157    | MEASUREMENT OF AVERAGE CO2 PRESSURE  | CO2 MED   | CO2 MED |
| CO.629.18158    | C2H2 BRACKET PRESSURE METER          | UNI 7S    | C2H2    |
| CO.629.18159    | PRESSURE METER C2H2 G5/8SIN          | AFNOR A/H | C2H2    |



# 1ST STAGE PRESSURE REDUCER FOR PURE GASES

SERIES RO.200



Single stage pressure reducer. Used for pure or food gases.  
It can be equipped with a hose holder outlet or connection with a 6-8mm tube cone connection.

#### SAFETY DEVICES

Overpressure safety valve  
Single unit test  
Sinter filter  
Single integrated body

#### TRACEABILITY

Serial number marked on the valve body

#### DOCUMENTATION

Declaration of Conformity and Instruction for Use

#### REFERENCE TECHNICAL STANDARDS

EN ISO 2503

#### TECHNICAL FEATURES

##### PERFORMANCE

|                       |  |
|-----------------------|--|
| Gas                   | MIX AR/HE N <sub>2</sub> O <sub>2</sub> , Air, N <sub>2</sub> O, CO <sub>2</sub> |
| Inlet pressure        | 230 bar (on request 300 bar)   |
| Outlet pressure       | adjustable 0-4 bar   |
| Operating temperature | -20° C +50° C  |

##### MATERIALS

|        |                                   |
|--------|-----------------------------------|
| Body   | Chromed-brass CW617N-UNI EN 12165 |
| Piston | Ottone e P.A.6.6                  |

##### GAUGE

|                |           |
|----------------|-----------|
| Full scale     | 0-315 Bar |
| LP             | 0-315 bar |
| Accuracy class | 0-16 bar  |
| Diameter       | 2.5       |
| Fitting        | 50 mm.    |
|                | 1/8" G.C  |

##### CONNECTIONS

|        |                                       |
|--------|---------------------------------------|
| Outlet | Perpendicular to the inlet connection |
|        | 9/16 and hose holder 6 mm.            |
|        | Connection with 6 or 8 mm tube cone   |

##### DIMENSIONS AND WEIGHT

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

| code            | Description                                  | Inlet     | outlet    | max outlet pressure | flow capacity | Gas   |
|-----------------|--|-----------|-----------|---------------------|---------------|-------|
| RO.200.12110    | REDUCER I STD 2MAN. O2 0-8BAR UNI 2          | UNI 2     | 1/4" G. F | 8,0                 | 16,8          | O2    |
| RO.200.12111    | REDUCER I STD 2MAN. N2 0-8BAR UNI 5          | UNI 5     | 1/4" G. F | 8,0                 | 17,0          | N2    |
| RO.200.12111DIN | REDUCER I STD 2MAN. N2 0-8BAR DIN            | DIN10     | 1/4" G. F | 8,0                 | 17,0          | N2    |
| RO.200.12112    | REDUCER I STD 2MAN. AIR 0-8BAR UNI 6         | UNI 13    | 1/4" G. F | 8,0                 | 17,0          | ARIA  |
| RO.200.12113    | REDUCER I STD 2MAN AR-HE 0-8BAR UNI8         | UNI 8     | 1/4" G. F | 8,0                 | 22,8          | Ar-He |
| RO.200.12114    | REDUCER I STD 2MAN. H2 0-8BAR UNI 1H         | UNI 1H    | 1/4" G. F | 8,0                 | 80,0          | H2    |
| RO.200.12114DIN | REDUCER I STD 2MAN. H2 0-8BAR DIN            | DIN1      | 1/4" G. F | 8,0                 | 80,0          | H2    |
| RO.200.12116    | REDUCER I STD 2MAN. H2 0-8BAR UNI 1H         | UNI 1H    | 1/4" G. F | 1,5                 | 1,7           | H2    |
| RO.200.12116DIN | REDUCER I STD 2MAN.C2H2DIN BRACKET M.IN      | DIN3      | 1/4" G. F | 1,5                 | 1,7           | C2H2  |
| RO.200.12117    | 1ST.2MAN REDUCER. AD FR STAINLESS STEEL MEMB | UNI 2     | 1/4" G. F | 1,5                 | 1,7           | C2H2  |
| RO.200.12117NF  | REDUCER I STD 2MAN. C2H2 NF MEM.INOX )       | AFNOR A/H | 1/4" G. F | 1,5                 | 1,7           | C2H2  |
| RO.200.12118    | REDUCER I STD 2MAN. CO2 MEM.INOX G.P. G.P.   | UNI 2     | 1/4" G. F | 8,0                 | 7,0           | CO2   |
| RO.200.12118DIN | REDUCER I STD 2MAN. CO2 DIN 12 M.INO G.P     | DIN6      | 1/4" G. F | 8,0                 | 7,0           | CO2   |

# PURE GAS PRESSURE REDUCER WITH 2 STAGES

## SERIES RO.200



The double stage allows finer and more constant pressure regulation  
Double stage pressure reducer. Used for pure gases and food  
It can be equipped with a hose connection outlet or a fitting with a 6 or 8 mm hose.

### SAFETY DEVICES

- Overpressure safety valve
- Single unit test
- Sinter filter
- Single integrated body

### TRACEABILITY

Serial number marked on the valve body

### DOCUMENTATION

Declaration of Conformity and Instruction for use

### REFERENCE TECHNICAL STANDARDS

EN ISO 2503

### TECHNICAL FEATURES

#### PERFORMANCE

|                       |                            |
|-----------------------|----------------------------|
| Gas                   | O2-N2-Ar-Helium-H2-Air-AD  |
| Inlet pressure        | 230 bar - 25 bar           |
| Outlet pressure       | Adjustable 0-8 bar 0-1.5ba |
| Operating temperature | -20° C +50°C               |

#### MATERIALS

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

#### GAUGES

|                |                                   |
|----------------|-----------------------------------|
| 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<br>9/16 and hose holder 6 mm.   |
| Socket           | UNI AFNOR   |
| Inlet connection | UNI 11144/2 (Med. Oxygen)<br>UNI 11144/6 (Med. Air)<br>UNI 11144/9 (Med. Nitrous Oxide)<br>UNI 11144/10 (Med. Carbon Dioxide) |

### DIMENSIONS AND WEIGHT

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

| code              | Description   | Inlet   | outlet | max outlet pressure | flow capacity | Gas |
|-------------------|---|---------|--------|---------------------|---------------|-----|
| RO.200.12180      | REDUCER II STD 2MAN.M.STAINLESS STEEL REG0-8 O2       | UNI 2   | PG     | 8,0                 | 17,7          | O2  |
| RO.200.12180DIN10 | REDUCER II STD 2MAN.M.STAINLESS STEEL REG0-8 O2       | DIN10   | PG     | 8,0                 | 17,7          | O2  |
| RO.200.12180DIN6  | REDUCER II STD 2MAN.M.STAINLESS STEEL REG0-8 O2       | DIN6    | PG     | 8,0                 | 17,7          | O2  |
| RO.200.12180NF    | REDUCER II STD 2MAN.M.IN REG 0-8 O2NF                 | AFNOR B | PG     | 8,0                 | 17,7          | O2  |
| RO.200.12180PIN   | REDUCER II STD 2MAN.M.INOX REG 0-8 PI PI              | PIN     | PG     | 8,0                 | 17,7          | O2  |
| RO.200.12181      | REDUCER II STD 2MAN.M.STAINLESS STEEL REG0-8 N2       | UNI 5   | PG     | 8,0                 | 18,2          | N2  |
| RO.200.12181-5BAR | REDUCER II STD 2MAN.M.INOX REG 0-5 N2 N2 uni connect. | UNI5    | PG     | 5,0                 |               | N2  |
| RO.200.12181DIN10 | REDUCER II STD 2MAN.M.STAINLESS STEEL REG0-8 N2       | DIN10   | PG     | 8,0                 | 18,2          | N2  |
| RO.200.12181NF    | REDUCER II STD 2MAN.M.INOX 0-8 N2NF                   | AFNOR C | PG     | 8,0                 | 18,2          | N2  |
| RO.200.12182      | REDUCER II STD 2MAN.M.STAINLESS STEEL REG.0-8AIR      | UNI 6   | PG     | 8,0                 | 18,2          | N2  |
| RO.200.12183      | REDUCER II STD 2MAN.M.INOX REG 0-8 He He              | UNI 8   | PG     | 8,0                 | 23,3          | HE  |
| RO.200.12184      | REDUCER II STD 2MAN.M.STAINLESS STEEL REG0-8 H2       | UNI 1H  | PG     | 8,0                 | 80,0          | H2  |

## SECOND STAGE REDUCER

### SERIES RO.200



Second stage pressure reducer.  
Used to power pure gas and food gas systems.  
It can be equipped with a hose holder outlet or a fitting with a 6 or 8 mm hose.

### SERIES RO.300



#### REFERENCE TECHNICAL STANDARDS

UNI EN 10524-1

#### TECHNICAL FEATURES

##### PERFORMANCE

Gas  
Inlet pressure  
Outlet pressure  
Operating temperature

Adjustable 0-5 bar  
-20° C +50°C

##### MATERIALS

Body Chromed-brass CW617N-UNI EN 12165  
Piston Brass and P.A.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 HOSE CLAMP Ø 6

Inlet HOSE CLAMP Ø 6

##### DIMENSIONS AND WEIGHT

Dimension 130 x 120 x 190 mm.

Weight 1,130 kg

##### SAFETY DEVICES

Single unit test

Sinter filter

##### TRACEABILITY

Serial number marked on the valve body

##### DOCUMENTATION

Declaration of Conformity and Instruction for use

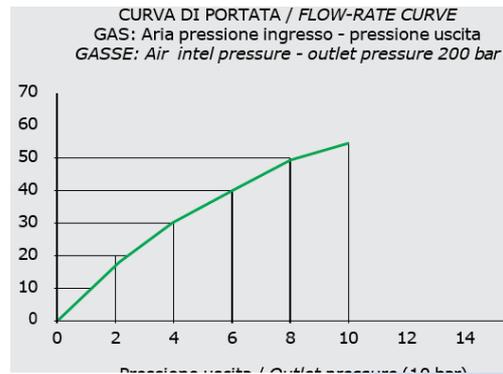
| codice       | Descrizione                              | Ingresso | uscita   | Press.entrata Max | Press.uscita Max | Portata |
|--------------|--|----------|----------|-------------------|------------------|---------|
| RO.200.12075 | RIDUTTORE DI 2°STD N.COMB. MEM.INOX 8bar | OGIVA Ø6 | OGIVA Ø6 | 20,0              | 8,0              | 8,0     |
| RO.200.12076 | RIDUTTORE DI 2°STD N.COMB MEM.INOX 1.5b  | OGIVA Ø6 | OGIVA Ø6 | 20,0              | 1,5              | 2,5     |
| RO.200.12077 | RIDUTTORE DI 2° STD COMB H2 MEM.INOX 8b  | OGIVA Ø6 | OGIVA Ø6 | 20,0              | 8,0              | 8,0     |
| RO.200.12078 | RIDUTTORE DI 2° STD COMB MEM.INOX 1.5bar | OGIVA Ø6 | OGIVA Ø6 | 20,0              | 1,5              | 2,5     |
| RO.200.12079 | RIDUTTORE DI 2°STD COM MEM.INOX 1.5bC2H  | OGIVA Ø6 | OGIVA Ø6 | 2,0               | 1,5              | 1,7     |
| RO.300.12200 | POSTO PRESA GAS PURI a UNA USCITA        | OGIVA Ø6 | OGIVA Ø6 | 230,0             |                  |         |

# IMPER REDUCER 10BAR

SERIES RI.132



Pressure reducers mod. IMPER for the use of industrial gases.  
The adjustment with front knob is ideal for Cutting, Heating and Welding in medium applications.



## REFERENCE TECHNICAL STANDARDS

Construction regulation EN ISO 2503

## APPLICATION

Cutting, heating and welding

## TECHNICAL FEATURES

### PERFORMANCE

Gas O2-N2-H2-Air  
Inlet pressure 230 Bar Max  
Outlet pressure Adjustable 0/10 Bar  
Flow rate See Tab  
Operating temperature -15° +60°

### MATERIALS

Body Brass -CW617N-UNI EN 12165  
Shutter High pressure valve with PTFE seat  
Valve bell Brass -CW617N-UNI EN12165

Diaphragm Neoprene diam. 50  
Filter in bronze placed inside the inlet connection

### GAUGE

Gauge ISO 5171 diam. 63 mm class 2.5  
HP gauge Full scale 0/315 bar  
LP gauge Full scale 0/15 bar

### CONNECTIONS

Inlet UNI - NF - DIN - BS - CGA  
Outlet 3/8 G. with nut and conic hose holder for rubber tube 6/8 mm  
For reducer Connection with 6 or 8 mm tube cone

### SAFETY DEVICES

Over pressure safety valve for oxygen

### SAFETY

Single unit test

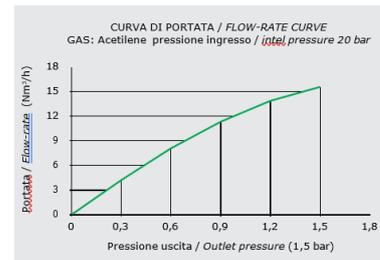
| code            | Description                          | Inlet   | outlet | max outlet pressure | flow capacity | Gas   |
|-----------------|--------------------------------------|---------|--------|---------------------|---------------|-------|
| RI.132.12500UNI | IMPER O2 UNI REDUCER                 | UNI 2   | PG     | 0-10 Bar            | 55 m3/h       | O2    |
| RI.132.12500NF  | IMPER O2 REDUCER NF                  | NF B    | PG     | 0-10 Bar            | 55 m3/h       | O2    |
| RI.132.12500DIN | IMPER O2 REDUCER DIN G3/4            | DIN 9   | PG     | 0-10 Bar            | 55 m3/h       | O2    |
| RI.132.12505UNI | IMPER N2 UNI REDUCER                 | UNI 5   | PG     | 0-10 Bar            | 55 m3/h       | N2    |
| RI.132.12501UNI | IMPER CHROME CO2 UNI REDUCER         | UNI 2   | PG     | 0-10 Bar            | 55 m3/h       | CO2   |
| RI.132.12505NF  | IMPER REDUCER N2 NF                  | AFNOR C | PG     | 0-10 Bar            | 55 m3/h       | N2    |
| RI.132.12510UNI | IMPER REDUCER AR-HE-MIX UNI          | UNI     | PG     | 0-10 Bar            | 55 m3/h       | Ar-He |
| RI.132.12505DIN | IMPER REDUCER N2 DIN 10 24.32        | DIN 10  | PG     | 0-10 Bar            | 55 m3/h       | N2    |
| RI.132.12515UNI | UNI AIR IMPER REDUCER                | UNI 6   | PG     | 0-10 Bar            | 55 m3/h       | ARIA  |
| RI.132.12515DIN | UNI AIR IMPER REDUCER                | DIN 13  | PG     | 0-10 Bar            | 55 m3/h       | ARIA  |
| RI.132.12520UNI | IMPER H2 UNI REDUCER                 | UNI 1H  | PG     | 0-10 Bar            | 55 m3/h       | H2    |
| RI.132.12520NF  | IMPER H2 NF REDUCER                  | AFNOR E | PG     | 0-10 Bar            | 55 m3/h       | H2    |
| RI.132.12520DIN | IMPER H2 DIN 21.7 LH REDUCER         | DIN 1   | PG     | 0-10 Bar            | 55 m3/h       | H2    |
| 9208            | CAPSULE REDUCTION SET M16X1 I° STAGE |         |        |                     |               |       |



9208

## REDUCER FOR ACETYLENE 1,5 BAR

SERIES RI.132



Pressure reducers mod. IMPER for the use of Acetylene gas in cylinders.

Pressure regulation is possible thanks to the front knob, which is ideal for cutting, heating and welding for medium applications, for 5-7lt cylinders.

| code            | Description                     | Inlet       | outlet | max outlet pressure | flow capacity | Gas  |
|-----------------|---------------------------------|-------------|--------|---------------------|---------------|------|
| RI.132.12530    | IMPER REDUCER C2H2 BRACKET      | STAFFA      | PG     | 1,5 Bar             | 10,0          | C2H2 |
| RI.132.12530DIN | IMPER REDUCER C2H2 DIN3 BRACKET | STAFFA DIN3 | PG     | 1,5 Bar             | 10,0          | C2H2 |
| RI.132.12531    | IMPER REDUCER C2H2 G5/8SIN      | G5/8SIN     | PG     | 1,5 Bar             | 10,0          | C2H2 |

### IMPER REDUCER WITH FLOW METER FOR ARGON CO2 MIXTURE SERIES RI.132



Pressure reducer with hand flow meter for Mig - Mag - Tig welding. Flow rate is accurately delivered through calibrated output systems.

| code            | Description                          | Inlet   | outlet | flow capacity | Liters     | Gas   |
|-----------------|--------------------------------------|---------|--------|---------------|------------|-------|
| RI.132.12535UNI | IMPER REDUCER AR-HE UNI W/GAUGE OFL. | UNI 8   | PG     | 0-30L/m       | 0-30LT/min | Ar-He |
| RI.132.12535NF  | IMPER REDUCER AR-HE NF W/HANDFL.     | AFNOR C | PG     | 0-30L/m       | 0-30LT/min | Ar-He |
| RI.132.12536UNI | IMPER CO2 REDUCER UNI W/GAUGE OFL.   | UNI 2   | PG     | 0-30L/m       | 0-30LT/min | CO2   |

### IMPER REDUCER WITH FLOW METER FOR ARGON CO2 MIXTURE SERIES RI.132



Pressure reducer with flow meter for Mig - Tig welding. The flowmeter allows high precision with the dispensing flow.

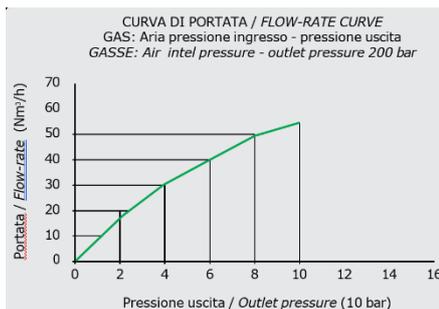
| code             | Description                            | Inlet | outlet | flow capacity | Liters     | Gas   |
|------------------|--|-------|--------|---------------|------------|-------|
| RI.132.12540UNI  | IMPER AR-HE UNI REDUCER WITH FLOWMETER | UNI 8 | PG     | 0-30L/m       | 0-30LT/min | Ar-He |
| RI.132.12541UNI  | IMPER CO2 UNI REDUCER W/FLOWMETER      | UNI 2 | PG     | 0-30L/m       | 0-30LT/min | CO2   |
| RI.132.12540DIN6 | IMPER AR-HE DIN6C REDUCER/FLOWMETER    | DIN 6 | PG     | 0-30L/m       | 0-30LT/min | Ar-He |

# VERTICAL IMPER REDUCER 300DIN

SERIES RI.169



Pressure reducers mod. IMPER for the use of industrial gases in cylinders. Regulation with vertical knob is ideal for Cutting, Heating and Welding for medium applications.



## REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

## APPLICATIONS

Cutting, Heating and Welding

## TECHNICAL FEATURES

### PERFORMANCE

|                       |                     |
|-----------------------|---------------------|
| Gas                   | O2-N2-H2-Air        |
| Inlet pressure        | 230 Bar Max         |
| Outlet pressure       | adjustable 0/10 Bar |
| Flow rate             | see Tab.            |
| Operating temperature | -15° +60°           |

### MATERIALS

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass-CW617N-UNI EN 12165             |
| Shutter    | High pressure valve with PTFE seat    |
| Valve bell | Painted Aluminum                      |
| Diaphragm  | Neoprene 50 diam.                     |
| Filter     | Bronze placed in the inlet connection |

### GAUGES

|          |                                  |
|----------|----------------------------------|
| GAUGES   | ISO 5171 diam. 63 mm class 2.5 M |
| HP gauge | Full scale 0/315 bar             |
| LP gauge | Full scale 0/15 bar              |

### CONNECTIONS

|                    |  |
|--------------------|--|
| Inlet              | UNI - NF - DIN - BS - CGA                                      |
| Outlet             | 3/8 G. with nut and conical hose holder for 6/8 mm rubber hose |
| Fitting of reducer | Swivel connection with o-ring                                  |

### SAFETY DEVICES

Pressure relief valve for Oxygen

### SAFETY

Single Unit test

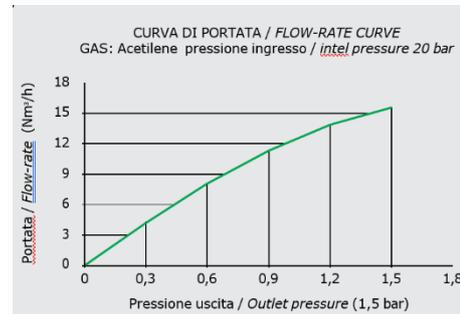
| code              | Description                                     | Inlet   | outlet  | max outlet pressure | flow capacity | Gas  |
|-------------------|---|---------|---------|---------------------|---------------|------|
| RI.169.14500DIN   | IMPER REDUCER 300DIN O2 DIN9 10BAR              | DIN9    | 3/8G PG | 0-10Bar             | 50,0          | O2   |
| RI.169.14500DINJ  | IMPER REDUCER 300DIN O2 DIN/6 10BAR             | DIN6    | 3/8G PG | 0-10Bar             | 50,0          | O2   |
| RI.169.14500NF    | IMPER REDUCER 300DIN O2 NF 10BAR                | NF B    | 3/8G PG | 0-10Bar             | 50,0          | O2   |
| RI.169.14500UNI   | IMPER REDUCER 300DIN O2 UNI 10BAR               | UNI 2   | 3/8G PG | 0-10Bar             | 50,0          | O2   |
| RI.169.14501DIN6  | IMPER REDUCER 300DIN CO2 DIN6 10BAR             | DIN6    | 3/8G PG | 0-10Bar             | 50,0          | CO2  |
| RI.169.14501NF    | IMPER REDUCER 300DIN CO2 NF 10BAR               | AFNOR C | 3/8G PG | 0-10Bar             | 50,0          | CO2  |
| RI.169.14501UNI   | IMPER REDUCER 300DIN CO2 UNI 10BAR              | UNI 2   | 3/8G PG | 0-10Bar             | 50,0          | CO2  |
| RI.169.14520DIN   | IMPER REDUCER /10 N2 DIN24.32 10BAR (ING.24.32) | DIN10   | 3/8G PG | 0-10Bar             | 50,0          | N2   |
| RI.169.14520NF    | IMPER REDUCER 300DIN N2 NF 10BAR                | AFNOR C | 3/8G PG | 0-10Bar             | 50,0          | N2   |
| RI.169.14520UNI   | IMPER REDUCER 300DIN N2 UNI 10BAR               | UNI 2   | 3/8G PG | 0-10Bar             | 50,0          | N2   |
| RI.169.14521UNI   | IMPER REDUCER 300 N2 UNI SUPPLY 10BAR           | UNI 5   | 3/8G PG | 0-10Bar             | 50,0          | N2   |
| RI.169.14530UNI   | IMPER REDUCER 300DIN N2 UNI 20BAR               | UNI 5   | 3/8G PG | 0-10Bar             | 50,0          | N2   |
| RI.169.14570NF    | IMPER REDUCER 300DIN H2 NF 10BAR                | AFNOR E | 3/8G PG | 0-10Bar             | 190,0         | H2   |
| RI.169.14570UNI   | IMPER REDUCER 300DIN H2 UNI 10BAR               | UNI 1H  | 3/8G PG | 0-10Bar             | 190,0         | H2   |
| RI.169.14580DINRU | IMPER REDUCER 300DIN 10BAR AIR 3/4G             | DIN 9   | 3/8G PG | 0-10Bar             | 50,0          | ARIA |
| RI.169.14580NF    | IMPER REDUCER 300DIN AIR NF 10BAR               | NF B    | 3/8G PG | 0-10Bar             | 50,0          | ARIA |
| RI.169.14580UNI   | IMPER REDUCER 300DIN AIR UNI 10BAR              | UNI 2   | 3/8G PG | 0-10Bar             | 50,0          | ARIA |
| RI.169.14620UNI   | IMPER REDUCER 300DIN N2 30 BAR                  | UNI 5   | 3/8G PG | 0-30bar             | 50,0          | N2   |
| 9208              | CAPSULE REDUCTION SET M16X1 1° STAGE            |         |         |                     |               |      |



9208

## IMPER REDUCER WITH MANOFLOWMETER FOR AR./HE

SERIES RI.169



Pressure reducer mod. IMPER for the use of Acetylene in cylinders.

Regulation with vertical knob is ideal for Cutting, Heating and Welding for medium applications.

| code             | Description                                       | Inlet     | outlet  | max outlet pressure | flow capacity | Gas  |
|------------------|---|-----------|---------|---------------------|---------------|------|
| RI.169.14531DIN3 | IMPER REDUCER 300DIN C2H2 DIN ST 0-2.5            | DIN 3     | 3/8G PG | 0-2,5               | 20,0          | C2H2 |
| RI.169.14531NF   | IMPER REDUCER 300DIN C2H2 NF 0-2.5 OUTPUT 3/8" SX | AFNOR A/H | 3/8G PG | 0-2,5               | 20,0          | C2H2 |
| RI.169.14531UNI  | IMPER REDUCER 300DIN C2H2 UNI 0-2.5               | UNI 7S    | 3/8G PG | 0-2,5               | 20,0          | C2H2 |

## IMPER REDUCER WITH MANOFLOWMETER FOR AR./CO2

SERIES RI.169



Pressure reducer with mano-flowmeter for Mig - Mag - Tig welding.

Flow rates accurately delivered by means of output systems calibrated precisely with the delivery flow.

| code            | Description                            | Inlet   | outlet  | flow capacity | Gauge | Gas   |
|-----------------|--|---------|---------|---------------|-------|-------|
| RI.169.14540NF  | IMPER REDUCER 300DIN AR-HE NF 0-30L/M  | AFNOR C | 3/8G PG | 0-30L/m       | 315,0 | Ar-He |
| RI.169.14540UNI | IMPER REDUCER 300DIN AR-HE UNI 0-30L/M | UNI 8   | 3/8G PG | 0-30L/m       | 315,0 | Ar-He |
| RI.169.14560DIN | IMPER REDUCER 300DIN CO2 DIN6 0-30L/M  | DIN 6   | 3/8G PG | 0-30L/m       | 315,0 | CO2   |
| RI.169.14560UNI | IMPER REDUCER 300DIN CO2 UNI 0-30L/M   | UNI 2   | 3/8G PG | 0-30L/m       | 315,0 | CO2   |
| 9208            | CAPSULE REDUCTION SET M16X1 I° STAGE   |         |         |               |       |       |

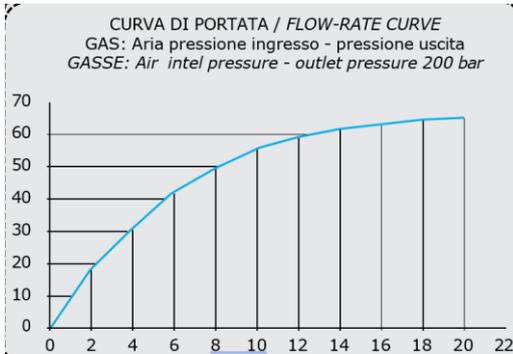


# IMPER REDUCER 20 BAR

SERIES RI.132



Pressure reducers for cylinders for high performance.



## REFERENCE TECHNICAL STANDARDS

Construction regulation EN ISO 2503

## APPLICATIONS

High performance

## TECHNICAL FEATURES

### PERFORMANCE

Gas O2-N2-H2-Air  
 Inlet pressure 230 Bar Max  
 Outlet pressure Adjustable 0/20 Bar  
 Rate flow See tab  
 Operating temperature -15° +60°

### MATERIALS

Body Brass -CW617N-UNI EN 12165  
 Shutter High pressure valve with PTFE seat  
 Valve bell Anodized aluminum  
 Diaphragm Brass  
 Filter Bronze placed in the inlet connection

### GAUGES

GAUGES ISO 5171 diam. 63 mm class 2.5  
 HP gauge Full scale 0/315 bar  
 LP gauge Full scale 0/20 bar

### CONNECTIONS

Inlet UNI - NF - DIN - BS - CGA  
 Outlet 3/8 G. without nut and hose holder  
 Reducer connection Swivel connection with o-ring

### SAFETY

Single Unit Test

| code            | Description                          | Inlet   | outlet | max outlet pressure | flow capacity | Gas   |
|-----------------|--------------------------------------|---------|--------|---------------------|---------------|-------|
| RI.132.12600NF  | IMPER N2 NF REDUCER 20BAR            | AFNOR C | 3/8 G  | 20Bar               | 60,0          | N2    |
| RI.132.12600UNI | IMPER N2 UNI 20BAR REDUCER           | UNI 5   | 3/8 G  | 20Bar               | 60,0          | N2    |
| RI.132.12601NF  | IMPER O2 REDUCER NF 20BAR            | NF B    | 3/8 G  | 20Bar               | 60,0          | O2    |
| RI.132.12601UNI | IMPER O2 UNI 20BAR REDUCER           | UNI 2   | 3/8 G  | 20Bar               | 60,0          | O2    |
| RI.132.12602BS  | IMPER REDUCER AR/HE BS 20BAR         | BS 3    | 3/8 G  | 20Bar               | 60,0          | Ar-He |
| RI.132.12601UNI | IMPER O2 UNI 20BAR REDUCER           | UNI 2   | 3/8 G  | 20Bar               | 60,0          | O2    |
| RI.132.12606UNI | IMPER 300 BAR H2 UNI 20BAR REDUCER   | UNI 1H  | 3/8 G  | 20Bar               | 60,0          | H2    |
| RI.132.12617UNI | UNI 20BAR AIR IMPER REDUCER          | UNI 6   | 3/8 G  | 20Bar               | 60,0          | ARIA  |
| 9208            | CAPSULE REDUCTION SET M16X1 I° STAGE |         |        |                     |               |       |



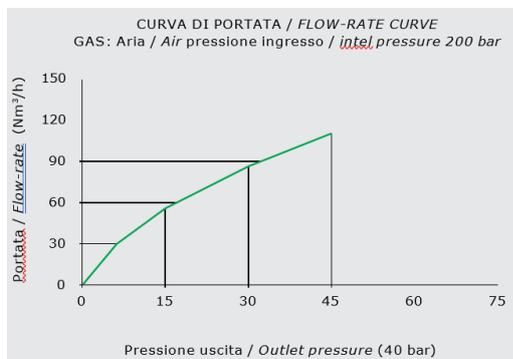
9208

# IMPER REDUCER 40 BAR

SERIES RI.132



Pressure reducers for cylinders for high performance.



## REFERENCE TECHNICAL STANDARDS

Construction regulation EN ISO 2503

## APPLICATIONS

High performance

## TECHNICAL FEATURES

### PERFORMANCE

Gas O2-N2-H2-Air  
Inlet pressure 230 Bar Max  
Outlet pressure Adjustable 0/40 Bar  
Rate flow see tab  
Operating temperature -15° +60°

### MATERIALS

Body Brass -CW617N-UNI EN 12165  
Shutter High pressure valve with PTFE seat  
Valve bell Anodized aluminum  
Diaphragm Brass  
Filter Bronze placed in the inlet connection

### GAUGES

GAUGES ISO 5171 diam. 63 mm class 2.5  
HP gauge Full scale 0/315 bar  
LP gauge Full scale 0/40 bar

### CONNECTIONS

Inlet UNI - NF - DIN - BS - CGA  
Outlet 3/8 G. without nut and hose holder  
Reducer connection Swivel connection with o-ring

### SAFETY

Single Unit Test

| code             | Description   | Inlet   | outlet | max outlet pressure | flow capacity | Gas   |
|------------------|---|---------|--------|---------------------|---------------|-------|
| RI.132.12616UNI  | IMPER H2 UNI 40BAR REDUCER                                | UNI 1H  | 3/8 G  | 40Bar               | 100,0         | H2    |
| RI.132.12618UNI  | AIR REDUCER UNI 40BAR                                     | UNI 6   | 3/8 G  | 40Bar               | 100,0         | ARIA  |
| RI.132.12619DIN6 | IMPER O2 REDUCER DIN6 40BAR                               | DIN6    | 3/8 G  | 40Bar               | 100,0         | O2    |
| RI.132.12619NF   | IMPER O2 REDUCER NF 40BAR                                 | NF B    | 3/8 G  | 40Bar               | 100,0         | O2    |
| RI.132.12619UNI  | IMPER O2 UNI 40BAR REDUCER                                | UNI 2   | 3/8 G  | 40Bar               | 100,0         | O2    |
| RI.132.12620BS   | IMPER REDUCER N2 BS -40BAR                                | BS 3    | 3/8 G  | 40Bar               | 100,0         | N2    |
| RI.132.12620DINJ | IMPER REDUCER N2 DIN /10 40BAR<br>OUTPUT 1/4G INPUT 24.32 | DIN10   | 3/8 G  | 40Bar               | 100,0         | N2    |
| RI.132.12620NF   | IMPER REDUCER N2 NF 40BAR                                 | AFNOR C | 3/8 G  | 40Bar               | 100,0         | N2    |
| RI.132.12620UNI  | IMPER REDUCER N2 UNI 40BAR                                | UNI 2   | 3/8 G  | 40Bar               | 100,0         | N2    |
| RI.132.12621UNI  | IMPER REDUCER UNI AIR 0-40BAR                             | UNI 6   | 3/8 G  | 40Bar               | 100,0         | ARIA  |
| RI.132.12622UNI  | IMPER REDUCER AR/HE UNI 0-40BAR                           | UNI 8   | 3/8 G  | 40Bar               | 100,0         | Ar-He |
| 9208             | CAPSULE REDUCTION SET M16X1 I°<br>STAGE                   |         |        |                     |               |       |

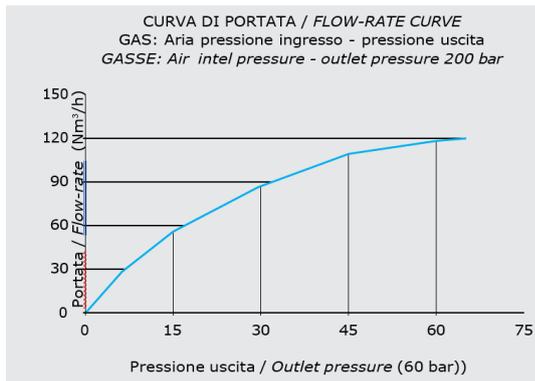


# IMPER REDUCER 60 BAR

## Series RI.132



Pressure reducers for cylinders for high performance.



### REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

### APPLICATIONS

High performance

### TECHNICAL FEATURES

#### PERFORMANCE

Gas O2-N2-H2-Air  
 Inlet pressure 230 Bar Max  
 Outlet pressure Adjustable 0/60 Bar  
 Flow rate See tab  
 Operating temperature -15° +60°

### MATERIALS

Body Brass -CW617N-UNI EN 12165  
 Shutter High pressure valve with PTFE seat  
 Valve bell Anodized aluminum  
 Diaphragm Brass  
 Filter Bronze placed in the inlet connection

### GAUGES

GAUGES ISO 5171 diam. 63 mm class 2.5  
 HP gauge Full scale 0/315 bar  
 LP gauge Full scale 0/100 bar

### CONNECTIONS

Inlet UNI - NF - DIN - BS - CGA  
 Outlet 3/8 G. without nut and hose holder  
 Reducer connection Swivel conn.with o-ring

### SAFETY

Single unit test

| code             | Description                           | Inlet   | outlet | max outlet pressure | flow capacity | Gas |
|------------------|---------------------------------------|---------|--------|---------------------|---------------|-----|
| RI.132.12650BS   | IMPER REDUCER N2 BS 60BAR PISTON      | BS 3    | 3/8 G  | 6Bar                | 109,0         | N2  |
| RI.132.12650DIN  | IMPER REDUCER N2 DIN6 60BAR PIST      | DIN 10  | 3/8 G  | 6Bar                | 109,0         | N2  |
| RI.132.12650NF   | IMPER REDUCER N2 NF 60BAR PISTON      | AFNOR C | 3/8 G  | 6Bar                | 109,0         | N2  |
| RI.132.12650UNI  | IMPER REDUCER N2 UNI 60BAR PISTON     | UNI 2   | 3/8 G  | 6Bar                | 109,0         | N2  |
| RI.132.12651BS   | IMPER O2 REDUCER AR/HE BS60BAR PISTON | BS 3    | 3/8 G  | 6Bar                | 109,0         | O2  |
| RI.132.12651DIN  | IMPER O2 REDUCER DIN9 G3/4 60BAR      | DIN 9   | 3/8 G  | 6Bar                | 109,0         | O2  |
| RI.132.12651DIN6 | IMPER O2 REDUCER DIN6 60BAR PISTON    | DIN 6   | 3/8 G  | 6Bar                | 109,0         | O2  |
| RI.132.12651NF   | IMPER O2 REDUCER NF 60BAR PISTON      | NF B    | 3/8 G  | 6Bar                | 109,0         | O2  |
| RI.132.12651UNI  | IMPER O2 REDUCER UNI 60BAR PISTON     | UNI 2   | 3/8 G  | 6Bar                | 109,0         | O2  |
| 9208             | CAPSULE REDUCTION SET M16X1 1° STAGE  |         |        |                     |               |     |



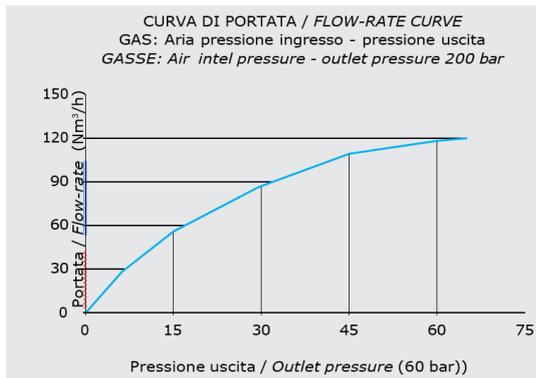
9208

# IMPER REDUCER 70 BAR

SERIES RI.132



Pressure reducers for cylinders for high performance.



## REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

## APPLICATIONS

High performance

## TECHNICAL FEATURES

### PERFORMANCE

|                       |                     |
|-----------------------|---------------------|
| Gas                   | O2-N2-H2-Ar         |
| Inlet pressure        | 230 Bar Max         |
| Outlet pressure       | Adjustable 0/70 Bar |
| Flow rate             | See tab.            |
| Operating temperature | -15° +60°           |

### MATERIALS

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass -CW617N-UNI EN 12165            |
| Shutter    | High pressure valve with PTFE seat    |
| Valve bell | Anodized aluminum                     |
| Diaphragm  | Brass                                 |
| Filter     | Bronze placed in the inlet connection |

### GAUGES

|          |                                |
|----------|--------------------------------|
| GAUGES   | ISO 5171 diam. 63 mm class 2.5 |
| HP Gauge | Full scale 0/315 bar           |
| LP gauge | Full scale 0/100 bar           |

### CONNECTIONS

|                    |                                    |
|--------------------|------------------------------------|
| Inlet              | UNI - NF - DIN - BS - CGA          |
| Outlet             | 3/8 G. without nut and hose holder |
| Reducer connection | Swivel conn. With o-ring           |

### SAFETY

Single unit test

| code             | Description                           | Inlet | outlet | flow capacity | Gas |
|------------------|---------------------------------------|-------|--------|---------------|-----|
| RI.132.12653BS   | IMPER REDUCER N2 BS 70BAR PISTON      | BS 3  | 3/8 G  | 109,0         | N2  |
| RI.132.12653DIN  | IMPER REDUCER N2 DIN6 70BAR PIST      | DIN 1 | 3/8 G  | 109,0         | N2  |
| RI.132.12653NF   | IMPER REDUCER N2 NF 70BAR PISTON      | AFNOR | 3/8 G  | 109,0         | N2  |
| RI.132.12653UNI  | IMPER REDUCER N2 UNI 70BAR PISTON     | UNI 2 | 3/8 G  | 109,0         | N2  |
| RI.132.12654BS   | IMPER O2 REDUCER AR/HE BS70BAR PISTON | BS 3  | 3/8 G  | 109,0         | O2  |
| RI.132.12654DIN  | IMPER O2 REDUCER DIN9 G3/4 70BAR      | DIN 9 | 3/8 G  | 109,0         | O2  |
| RI.132.12654DIN6 | IMPER O2 REDUCER DIN6 70BAR PISTON    | DIN 6 | 3/8 G  | 109,0         | O2  |
| RI.132.12654NF   | IMPER O2 REDUCER NF 70BAR PISTON      | AFNOR | 3/8 G  | 109,0         | O2  |
| RI.132.12654UNI  | IMPER O2 REDUCER UNI 70BAR PISTON     | UNI 2 | 3/8 G  | 109,0         | O2  |
| 9208             | CAPSULE REDUCTION SET M16X1 1° STAGE  |       |        |               |     |

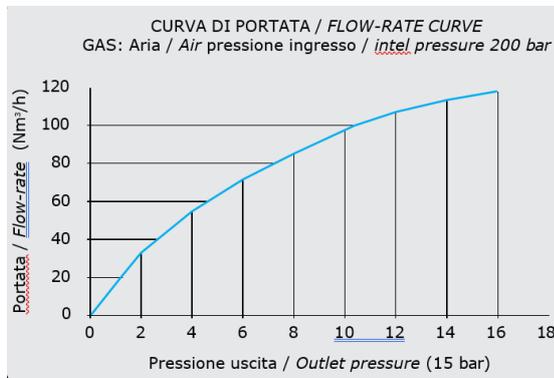


# LARGE FLOW RATES REDUCER 15BAR

## SERIES RI.140



IMPER diaphragm pressure reducers for large flow rates ideal for central decompression systems.



### REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

### APPLICATIONS

Large flow rates with strong outputs

### TECHNICAL FEATURES

#### PERFORMANCE

|                       |                     |
|-----------------------|---------------------|
| Gas                   | O2-N2-H2-Air        |
| Inlet pressure        | 230 Bar Max         |
| Outlet pressure       | Adjustable 0/15 Bar |
| Flow rate             | See tab.            |
| Operating temperature | -15° +60°           |

#### MATERIALS

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass -CW617N-UNI EN 12165            |
| Shutter    | High pressure valve with PTFE seat    |
| Valve bell | Anodized Aluminium                    |
| Diaphragm  | Neoprene diam. 60                     |
| Filter     | Bronze placed in the inlet connection |

#### GAUGES

|          |                                |
|----------|--------------------------------|
| GAUGES   | ISO 5171 diam. 63 mm class 2.5 |
| HP gauge | Full scale 0/315 bar           |
| LP gauge | Full scale 0/25 bar            |

#### CONNECTIONS

|   |                           |
|---|---------------------------|
| Inlet   | UNI - NF - DIN - BS - CGA |
| Outlet 3/8 G. with nut and hose conical hose holder for rubber hose 6/8mm |                           |
| Reducer connection  | Swivel conn. With o-ring  |

#### SAFETY DEVICES

Pressure relief valve for oxygen

#### SAFETY

Single unit test

| code             | Description                            | Inlet   | outlet     | max outlet pressure | flow capacity |
|------------------|--|---------|------------|---------------------|---------------|
| RI.140.12800DIN  | IMPER G.P. REDUCER DIN 300 20BAR       | DIN     | 3/8" Dx PG | 20Bar               | 120,0         |
| RI.140.12800DIN6 | IMPER G.P. REDUCER O2 DIN6 15BAR       | DIN 6   | 3/8" Dx PG | 15 Bar              | 120,0         |
| RI.140.12800NF   | IMPER G.P. REDUCER O2 NF 15BAR         | NF B    | 3/8" Dx PG | 15 Bar              | 120,0         |
| RI.140.12800UNI  | IMPER G.P. REDUCER O2 UNI 15BAR        | UNI 2   | 3/8" Dx PG | 15 Bar              | 120,0         |
| RI.140.12801BS   | IMPER G.P. REDUCER AR/HE BS 15BAR      | BS 3    | 3/8" Dx PG | 15 Bar              | 129,0         |
| RI.140.12801DIN  | IMPER G.P. REDUCER N2 DIN 10 15BAR     | DIN     | 3/8" Dx PG | 15 Bar              | 129,0         |
| RI.140.12801ISO  | IMPER G.P. REDUCER 300B ISO INERT15BAR | ISO     | 3/8" Dx PG | 15 Bar              | 129,0         |
| RI.140.12801NF   | IMPER G.P. REDUCER N2 NF 15BAR         | AFNOR C | 3/8" Dx PG | 15 Bar              | 129,0         |
| RI.140.12801UNI  | IMPER G.P. REDUCER N2 UNI 15BAR        | UNI 5   | 3/8" Dx PG | 15 Bar              | 129,0         |
| RI.140.12802NF   | IMPER G.P. REDUCER AR-HE NF 15BAR      | AFNOR C | 3/8" Dx PG | 15 Bar              | 108,0         |
| RI.140.12802UNI  | IMPER G.P. REDUCER AR-HE UNI 15BAR     | UNI 8   | 3/8" Dx PG | 15 Bar              | 108,0         |
| RI.140.12803DIN1 | IMPER G.P. REDUCER H2 DIN1 15BAR       | DIN 1   | 3/8" Dx PG | 15 Bar              | 480,0         |
| RI.140.12803UNI  | IMPER G.P. REDUCER H2 UNI 15BAR        | UNI 1H  | 3/8" Dx PG | 15 Bar              | 480,0         |
| RI.140.12804UNI  | IMPER G.P. REDUCER AIR UNI 15BAR       | UNI 6   | 3/8" Dx PG | 15 Bar              | 480,0         |
| RI.150.12999     | HIGH PRESSURE FILTER 50 MC             |         |            |                     |               |
| 9208B            | M24X1.5 COMPLETE CAPSULE FOR IMPER GP  |         |            |                     |               |



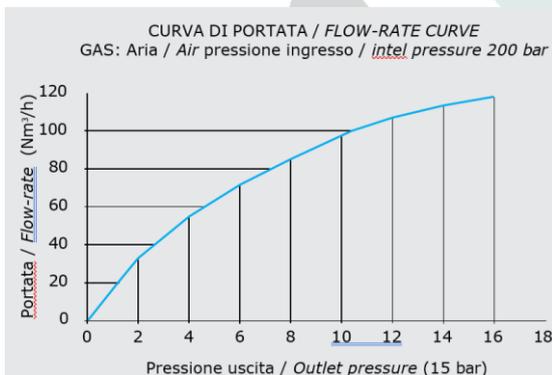
9208B

# LARGE FLOW RATES REDUCERS WITH MEMBRANE FOR ACETYLENE

SERIE RI.140



Pressure reducers IMPER GPM for large flow rates for acetylene.



## REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

## APPLICATIONS

Large flow rates with strong outputs

## TECHNICAL FEATURES PERFORMANCE

|                       |                      |
|-----------------------|----------------------|
| Gas                   | Acetylene            |
| Inlet pressure        | 25 Bar Max           |
| Outlet pressure       | Adjustable 0/1,5 Bar |
| Flow rate             | see Tab.             |
| Operating temperature | -15° +60°            |

## MATERIALS

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass -CW617N-UNI EN 12165            |
| Shutter    | High pressure valve with PTFE seat    |
| Valve bell | Anodized aluminum                     |
| Diaphragm  | Neoprene diam. 60                     |
| Filter     | Bronze placed in the inlet connection |

## GAUGES

|          |                                |
|----------|--------------------------------|
| GAUGES   | ISO 5171 diam. 63 mm class 2.5 |
| HP gauge | Full scale 0/40 bar            |
| LP gauge | Full scale 0/2,5 bar           |

## CONNECTIONS

|                    |  |
|--------------------|--|
| Inlet              | UNI - NF - DIN - BS - CGA  |
| Outlet             | 3/8 G. with nut and hose conical hose holder for rubber hose 6/8mm |
| Reducer connection | Swivel conn. With o-ring   |

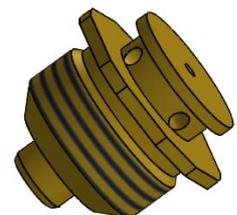
## SAFETY DEVICES

Pressure relief valve for oxygen

## SAFETY

Single unit test

| code         | Description                           | Inlet     | outlet     | max outlet pressure | flow capacity | Gas  |
|--------------|---------------------------------------|-----------|------------|---------------------|---------------|------|
| RI.140.12810 | IMPER G.P. REDUCER C2H2 BRACKET       | STAFFA    | 3/8" Dx PG | 1,5 Bar             | 120,0         | C2H2 |
| RI.140.12811 | IMPER G.P. REDUCER C2H2 NF            | AFNOR A/H | 3/8" Dx PG | 1,5 Bar             | 120,0         | C2H2 |
| 9208B        | M24X1.5 COMPLETE CAPSULE FOR IMPER GP |           |            |                     |               |      |



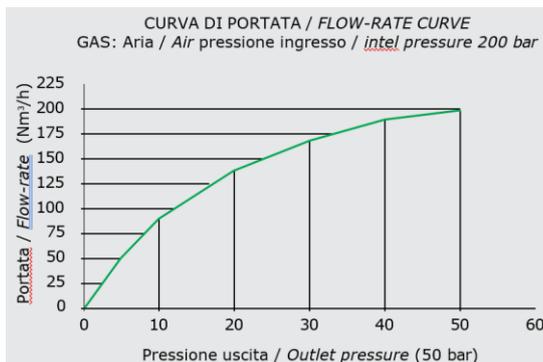
9208B

# IMPER REDUCER FOR LARGE FLOW RATE, PISTON GPP 50 BAR

SERIES RI.132



Reducer with piston for large flow rates with strong outputs are ideal for laser systems.



## REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

## APPLICATIONS

Large flow rates with strong outputs

## TECHNICAL FEATURES

### PERFORMANCE

|                       |                     |
|-----------------------|---------------------|
| Gas                   | O2-N2-Air           |
| Inlet pressure        | 230 Bar Max         |
| Outlet pressure       | Adjustable 0/50 Bar |
| Flow rate             | See tab             |
| Operating temperature | -15° +60°           |

### MATERIALS

|         |                                    |
|---------|------------------------------------|
| Body    | Brass -CW617N-UNI EN 12165         |
| Shutter | High pressure valve with PTFE seat |

### BALANCED SHUTTER

|            |                            |
|------------|----------------------------|
| Body       | Brass-CW617N-UNI EN 12165  |
| Valve bell | Painted aluminum           |
| Piston     | Brass -CW617N-UNI EN 12165 |
| Filter     |                            |

Bronze placed in the inlet connection

### GAUGES

|                 |                       |
|-----------------|-----------------------|
| GAUGES ISO 5171 | diam. 63 mm class 2.5 |
| HP gauge        | Full scale 0/315 Bar  |
| LP gauge        | Full scale 0/100 Bar  |

### CONNECTIONS

|        |              |
|--------|--------------|
| Inlet  | G.3/4 " Male |
| Outlet | G.3/4 " Male |

### SAFETY

Single unit test

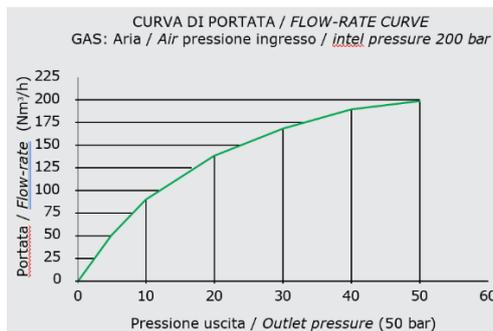
| code                 | Description                            | Inlet   | outlet | max outlet pressure | flow capacity | Gas   |
|----------------------|--|---------|--------|---------------------|---------------|-------|
| RI.140.12900DIN      | IMPER G.P. REDUCER O2 DIN G3/4 50BAR   | DIN 9   | G3/4m  | 50Bar               | 200,0         | O2    |
| RI.140.12900DIN6     | IMPER G.P. REDUCER O2 DIN6 50BAR       | DIN 6   | G3/4m  | 50Bar               | 200,0         | O2    |
| RI.140.12900DINSCUBA | IMPER G.P. REDUCER O2 50BAR DIN300 BAR | DIN     | G3/4m  | 50Bar               | 200,0         | O2    |
| RI.140.12900NF       | IMPER G.P. REDUCER O2 NF 50BAR         | NF B    | G3/4m  | 50Bar               | 200,0         | O2    |
| RI.140.12900UNI      | IMPER G.P. REDUCER O2 UNI 50BAR        | UNI     | G3/4m  | 50Bar               | 200,0         | O2    |
| RI.140.12901DIN      | IMPER G.P. REDUCER N2 DIN10 50BAR      | DON 10  | G3/4m  | 50Bar               | 209,0         | N2    |
| RI.140.12901DIN6     | IMPER G.P. REDUCER O2 DIN6 50BAR       | DIN 6   | G3/4m  | 50Bar               | 209,0         | O2    |
| RI.140.12901NF       | IMPER G.P. REDUCER N2 NF 50BAR         | AFNOR C | G3/4m  | 50Bar               | 209,0         | N2    |
| RI.140.12901UNI      | IMPER G.P. REDUCER N2 UNI 50BAR        | UNI 5   | G3/4m  | 50Bar               | 209,0         | N2    |
| RI.140.12902DIN6     | IMPER G.P. REDUCER AR-HE DIN 6 50BAR   | DIN 6   | G3/4m  | 50Bar               | 188,0         | Ar-He |
| RI.140.12902UNI      | IMPER G.P. REDUCER AR-HE UNI 50BAR     | UNI 8   | G3/4m  | 50Bar               | 188,0         | Ar-He |
| RI.140.12905DIN      | IMPER G.P. REDUCER H2 DIN 50BAR 21.8LH | DIN 1   | G3/4m  | 50Bar               |               | H2    |
| RI.140.12930UNI      | IMPER G.P. REDUCER 50BAR AIR           | UNI 6   | G3/4m  | 50Bar               |               | ARIA  |
| 9208B                | M24X1.5 COMPLETE CAPSULE FOR IMPER GP  |         |        |                     |               | 1,0   |

# IMPER REDUCER FOR LARGE FLOW RATE, PISTON GPP 200BAR

SERIES RI.140



Reducer with piston for large flow rates with strong outputs are ideal for laser systems.



## REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

## APPLICATIONS

Large flow rates with strong outputs

## TECHNICAL FEATURES

### PERFORMANCE

|                       |                      |
|-----------------------|----------------------|
| Gas                   | O2-N2-Aria           |
| Inlet pressure        | 230 Bar Max          |
| Outlet pressure       | Adjustable 0/200 Bar |
| Flow rate             | see tab.             |
| Operating temperature | -15° +60°            |

## MATERIALS

|         |                                    |
|---------|------------------------------------|
| Body    | Brass -CW617N-UNI EN 12165         |
| Shutter | High pressure valve with PTFE seat |

## BALANCED SHUTTER

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass -CW617N-UNI EN 12165            |
| Valve bell | Painted Aluminum                      |
| Piston     | Brass -CW617N-UNI EN 12165            |
| Filter     | Bronze placed in the inlet connection |

## GAUGES

|                 |                       |
|-----------------|-----------------------|
| GAUGES ISO 5171 | diam. 63 mm class 2.5 |
| HP gauge        | Full scale 0/315 Bar  |
| LP gauge        | Full scale 0/315 Bar  |

## CONNECTIONS

|        |                 |
|--------|-----------------|
| Inlet  | G.3/4 " Maschio |
| Outlet | G.3/4 " Maschio |

## SAFETY

Single unit test

| code             | Description  | Inlet   | outlet | Max inlet pressure | max outlet pressure | flow capacity | Gas   |
|------------------|--|---------|--------|--------------------|---------------------|---------------|-------|
| RI.140.12950BS   | IMPER G.P. REDUCER O2 BS 200BAR                          | BS 3    | G 3/8  | 230Bar             | 200Bar              | 200,0         | O2    |
| RI.140.12950UNI  | IMPER G.P. REDUCER O2 UNI 200BAR                         | UNI 2   | G 3/8  | 230Bar             | 200Bar              | 200,0         | O2    |
| RI.140.12951DIN  | IMPER G.P. REDUCER N2 /DIN 200BAR                        | DIN 10  | G 3/8  | 230Bar             | 200Bar              | 200,0         | N2    |
| RI.140.12951NF   | IMPER G.P. REDUCER N2 /NF 200BAR                         | AFNOR C | G 3/8  | 230Bar             | 200Bar              | 200,0         | N2    |
| RI.140.12951UNI  | IMPER G.P. REDUCER N2 UNI 200BAR                         | UNI 5   | G 3/8  | 230Bar             | 200Bar              | 200,0         | N2    |
| RI.140.12952DIN  | IMPER G.P. REDUCER AR-HE DIN -6                          | DIN 6   | G 3/8  | 230Bar             | 200Bar              | 200,0         | Ar-He |
| RI.140.12952UNI  | IMPER G.P. REDUCER AR-HE UNI 200BAR                      | UNI 8   | G 3/8  | 230Bar             | 200Bar              | 200,0         | Ar-He |
| RI.140.12953DIN3 | IMPER G.P. AIR REDUCER DIN 300 BAR PI 300 BAR PU 200 BAR | DIN 13  | G 3/8  | 230Bar             | 200Bar              | 200,0         | ARIA  |
| RI.140.12953UNI  | IMPER G.P. AIR REDUCER UNI 200BAR                        | UNI 6   | G 3/8  | 230Bar             | 200Bar              | 200,0         | ARIA  |
| 9208B            | M24X1.5 COMPLETE CAPSULE FOR IMPER GP                    |         |        |                    |                     |               |       |

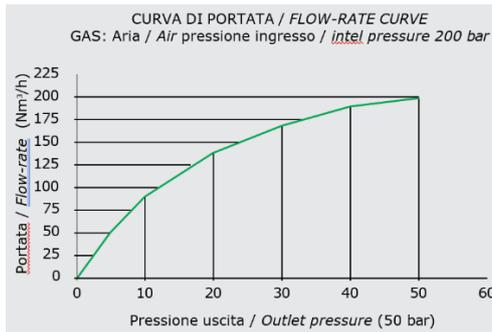


# IMPER REDUCER FOR LARGE FLOW RATE, PISTON GPP 300BAR

SERIES RI.140



Reducer with piston for large flow rates with strong outputs are ideal for laser systems.



## REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

## APPLICATIONS

Large flow rates with strong outputs

## TECHNICAL FEATURES

### PERFORMANCE

|                       |                      |
|-----------------------|----------------------|
| Gas                   | O2-N2-Aria           |
| Inlet pressure        | 300 Bar Max          |
| Outlet pressure       | Adjustable 0/300 Bar |
| Flow rate             | see tab.             |
| Operating temperature | -15° +60°            |

### MATERIALS

|         |                                    |
|---------|------------------------------------|
| Body    | Brass -CW617N-UNI EN 12165         |
| Shutter | High pressure valve with PTFE seat |

### BALANCED SHUTTER

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass -CW617N-UNI EN 12165            |
| Valve bell | Painted Aluminum                      |
| Piston     | Brass -CW617N-UNI EN 12165            |
| Filter     | Bronze placed in the inlet connection |

### GAUGES

|                 |                       |
|-----------------|-----------------------|
| GAUGES ISO 5171 | diam. 63 mm class 2.5 |
| HP gauge        | Full scale 0/315 Bar  |
| LP gauge        | Full scale 0/315 Bar  |

### CONNECTIONS

|        |                 |
|--------|-----------------|
| Inlet  | G.3/8 " Maschio |
| Outlet | G.3/8 " Maschio |

### SAFETY

Single unit test

| code              | Description                            | Inlet   | outlet | Max inlet pressure | max outlet pressure | flow capacity | Gas   |
|-------------------|--|---------|--------|--------------------|---------------------|---------------|-------|
| RI.140.13950BS    | IMPER G.P. REDUCER O2 BS 300BAR        | BS 3    | G 3/8  | 300Bar             | 0-200               | 200,0         | O2    |
| RI.140.13950UNI   | IMPER G.P. REDUCER O2 UNI 300BAR       | UNI 2   | G 3/8  | 300Bar             | 0-200               | 200,0         | O2    |
| RI.140.13951DIN   | IMPER G.P. REDUCER N2 /DIN 300BAR      | DIN 10  | G 3/8  | 300Bar             | 0-200               | 200,0         | N2    |
| RI.140.13951NF    | IMPER G.P. REDUCER N2 /NF 300BAR       | AFNOR C | G 3/8  | 300Bar             | 0-200               | 200,0         | N2    |
| RI.140.13951UNI   | IMPER G.P. REDUCER N2 UNI 300BAR       | UNI 5   | G 3/8  | 300Bar             | 0-200               | 200,0         | N2    |
| RI.140.13951-G1/4 | IMPER G.P. REDUCER N2 G1/4 300bar      | G1/4    | G1/4   | 300Bar             | 0-200               | 200,0         | N2    |
| RI.140.13952DIN   | IMPER G.P. REDUCER AR-HE DIN -6 300bar | DIN 6   | G 3/8  | 300Bar             | 0-200               | 200,0         | Ar-He |
| RI.140.13952ISO   | G.P. IMP. REDUCER AR-HE UNI 300/200BAR | ISO     | G 3/8  | 300Bar             | 0-200               | 200,0         | Ar-He |
| RI.140.13952UNI   | IMPER G.P. REDUCER AR-HE UNI 300BAR    | UNI 8   | G 3/8  | 300Bar             | 0-200               | 200,0         | Ar-He |
| RI.140.12952ISO   | G.P. IMP. REDUCER AR-HE UNI 300/200BAR | ISO     | G 3/8  | 230Bar             | 200Bar              | 200,0         | Ar-He |
| RI.140.13953DIN13 | IMPER G.P. AIR REDUCER DIN13 300BAR    | DIN 13  | G 3/8  | 300Bar             | 0-200               | 200,0         | ARIA  |
| RI.140.13953UNI   | IMPER G.P. AIR REDUCER UNI 300BAR      | UNI 6   | G 3/8  | 300Bar             | 0-200               | 200,0         | ARIA  |
| RI.140.13954UNI   | IMPER G.P. H2 REDUCER UNI 300BAR       | UNI 1H  | G 3/8  | 300Bar             | 0-200               | 200,0         | H2    |
| 9208B             | M24X1.5 COMPLETE CAPSULE FOR IMPER GP  |         |        |                    |                     |               |       |

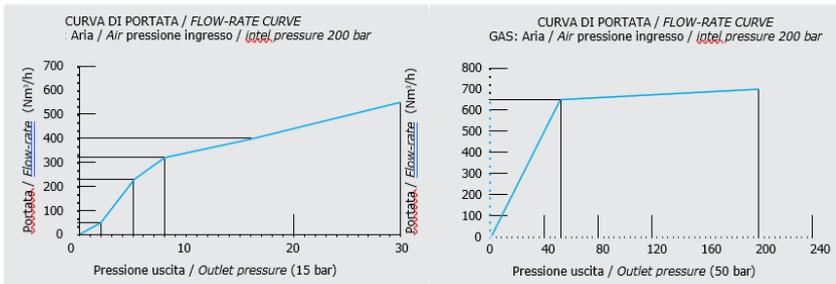


# CHROMED REDUCERS FOR LARGE FLOW RATES

## SERIES RI.140



Pressure reducers with piston IMPER model, for large flow rates with strong outputs is ideal for laser plant systems.



### PERFORMANCE

|                       |  |
|-----------------------|--|
| Gas                   | O2-N2-Air                                  |
| Inlet pressure        | 230 Bar Max                                |
| Outlet pressure       | Adjustable 0/15 Bar<br>Adjustable 0/50 Bar |
| Portata               | Vedi Tabella                               |
| Operating temperature | -15° +60°                                  |

### MATERIALS

|         |                                    |
|---------|------------------------------------|
| Body    | Brass CW617N-UNI EN 12165          |
| Shutter | High pressure valve with PTFE seat |

### BALANCED SHUTTER

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass -CW617N-UNI EN 12165            |
| Valve bell | Painted Aluminum                      |
| Piston     | Brass -CW617N-UNI EN 12165            |
| Filter     | Bronze placed in the inlet connection |

### GAU GAUGES

|          |                                |
|----------|--------------------------------|
| GAUGES   | ISO 5171 diam. 63 mm class 2.5 |
| HP gauge | Full scale 0/315 Bar           |
| LP gauge | Full scale 0/25 Bar            |
| LP gauge | Full scale 0/100 Bar           |

### CONNECTIONS

|                    |  |
|--------------------|--|
| Inlet              | UNI – NF – DIN – BS – CGA  |
| Outlet             | 3/8 G. with nut and hose conical hose holder for rubber hose 6/8mm |
| Reducer connection | Swivel conn. With o-ring   |

### SAFETY DEVICES

Pressure relief valve for oxygen

**SAFETY** Single unit test

| codice          | Descrizione                            | Ingresso | uscita  | Press.entrata Max | Press.uscita Max | Portata | Gas   |
|-----------------|--|----------|---------|-------------------|------------------|---------|-------|
| RI.140.12700UNI | RIDUTTORE IMPER G.P. O2 15BAR CROMA    | UNI 2    | 3/8" GM | 230 Bar           | 15 Bar           | 120,0   | O2    |
| RI.140.12701UNI | RIDUTTORE IMPER G.P. N2 15BAR CROMA    | UNI 5    | 3/8" GM | 230 Bar           | 15 Bar           | 129,0   | N2    |
| RI.140.12702UNI | RIDUTTORE IMPER G.P. AR-HE 15BAR CROMA | UNI 8    | 3/8" GM | 230 Bar           | 15 Bar           | 108,0   | Ar-He |
| RI.140.12750    | RIDUTTORE IMPER G.P. O2 50BAR CROMA    | UNI 2    | 3/8" GM | 230 Bar           | 5Bar             | 200,0   | O2    |
| RI.140.12751    | RIDUTTORE IMPER G.P. N2 50BAR CROMA    | UNI 5    | 3/8" GM | 230 Bar           | 5Bar             | 229,0   | N2    |
| RI.140.12752    | RIDUTTORE IMPER G.P. AR-HE 50BAR CROMA | UNI 8    | 3/8" GM | 230 Bar           | 5Bar             | 188,0   | Ar-He |
| 9208B           | CAPSULA M24X1.5 COMPLETA PER IMPER GP  |          |         |                   |                  |         |       |



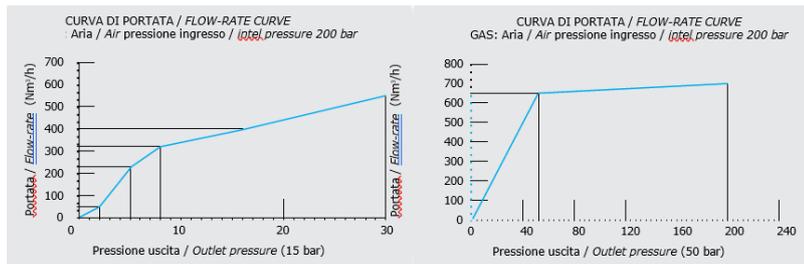
9208B

# REDUCER FOR LARGE FLOW RATE WITH BALANCED SHUTTER

SERIES RI.140



Pressure reducers with piston IMPER model, for large flow rates with strong outputs is ideal for laser plant systems.



## PERFORMANCE

|                       |  |
|-----------------------|--|
| Gas                   | O2-N2-Air                                  |
| Inlet pressure        | 230 Bar Max                                |
| Outlet pressure       | Adjustable 0/15 Bar<br>Adjustable 0/50 Bar |
| Flow rate             | See tab.                                   |
| Operating temperature | -15° +60°                                  |

## MATERIALS

|         |                                    |
|---------|------------------------------------|
| Body    | Brass CW617N-UNI EN 12165          |
| Shutter | High pressure valve with PTFE seat |

## BALANCED SHUTTER

|            |                                       |
|------------|---------------------------------------|
| Body       | Brass -CW617N-UNI EN 12165            |
| Valve bell | Painted Aluminum                      |
| Piston     | Brass -CW617N-UNI EN 12165            |
| Filter     | Bronze placed in the inlet connection |

## GAUGES

|          |                                |
|----------|--------------------------------|
| GAUGES   | ISO 5171 diam. 63 mm class 2.5 |
| HP gauge | Full scale 0/315 Bar           |
| LP gauge | Full scale 0/25 Bar            |
| LP gauge | Full scale 0/100 Bar           |

## CONNECTIONS

|                    |  |
|--------------------|--|
| Inlet              | UNI – NF – DIN – BS – CGA  |
| Outlet             | 3/8 G. with nut and hose conical hose holder for rubber hose 6/8mm |
| Reducer connection | Swivel conn. With o-ring   |

## SAFETY DEVICES

Pressure relief valve for oxygen

## SAFETY

Single unit test

| code             | Description  | Inlet   | outlet  | Max inlet pressure | max outlet pressure | flow capacity | Gas   |
|------------------|--|---------|---------|--------------------|---------------------|---------------|-------|
| RI.140.12710DIN6 | IMPER G.P. REDUCER O2DIN6 15BAR BAL.                   | DIN 6   | 3/8" GM | 230 Bar            | 15 Bar              | 370,0         | O2    |
| RI.140.12710UNI  | IMPER G.P. REDUCER O2 UNI 15BAR BAL.                   | UNI 2   | 3/8" GM | 230 Bar            | 15 Bar              | 370,0         | O2    |
| RI.140.12711DIN  | IMPER G.P. REDUCER N2 DIN 15BAR BAL.                   | DIN 10  | 3/8" GM | 230 Bar            | 15 Bar              | 379,0         | N2    |
| RI.140.12711NF   | IMPER G.P. REDUCER N2 NF 15BAR BAL.                    | AFNOR C | 3/8" GM | 230 Bar            | 15 Bar              | 379,0         | N2    |
| RI.140.12711UNI  | IMPER G.P. REDUCER N2 UNI 15BAR BAL.                   | UNI 5   | 3/8" GM | 230 Bar            | 15 Bar              | 379,0         | N2    |
| RI.140.12712DIN  | IMPER G.P.AR-HE DIN 15BAR BAL. REDUCER AR DIN 21.8X14" | DIN 10  | 3/8" GM | 230 Bar            | 15 Bar              | 350,0         | Ar-He |
| RI.140.12712UNI  | IMPER G.P.AR-HE UNI 15BAR BAL. REDUCER                 | UNI 8   | 3/8" GM | 230 Bar            | 15 Bar              | 350,0         | Ar-He |
| RI.140.12760DIN6 | IMPER G.P. REDUCER O2 UNI 50BAR BAL.                   | UNI 2   | 3/8" GM | 230 Bar            | 5Bar                |               | O2    |
| RI.140.12760UNI  | IMPER G.P. REDUCER O2 UNI 50BAR BAL.                   | UNI 2   | 3/8" GM | 230 Bar            | 5Bar                |               | O2    |
| RI.140.12761DIN  | IMPER G.P. REDUCER N2 DIN50BAR BAL.                    | DIN 10  | 3/8" GM | 230 Bar            | 5Bar                | 659,0         | N2    |
| RI.140.12761UNI  | IMPER G.P. REDUCER N2 UNI 50BAR BAL.                   | UNI 5   | 3/8" GM | 230 Bar            | 5Bar                | 659,0         | N2    |
| RI.140.12762DIN6 | REDUCER IMPER G.P.AR-HEDIN6 50BAR BAL.                 | DOIN 6  | 3/8" GM | 230 Bar            | 5Bar                | 630,0         | Ar-He |
| RI.140.12762UNI  | IMPER G.P. REDUCER AR-HE UNI 50BAR BAL.                | UNI 8   | 3/8" GM | 230 Bar            | 5Bar                | 630,0         | Ar-He |
| 9208B            | M24X1.5 COMPLETE CAPSULE FOR IMPER GP                  |         |         |                    |                     |               |       |

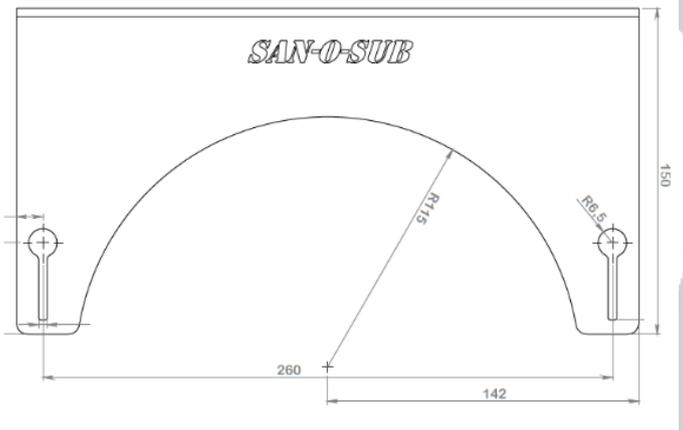
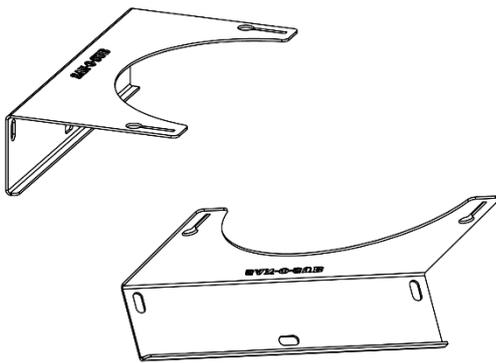


# RACKS FOR CYLINDERS

## SERIES CO.400 DRAS



Modular stainless steel rack for fixing 40lt and 50lt cylinders



### MATERIALS

Material: Stainless steel

### DIMENSIONS

1 cylinder: 29 x 14 x 13,5 mm  
 2 cylinders: 57 x 15 x 16,5 mm  
 3 cylinders: 85 x 15 x 16,5 mm

### VERSIONS

Rack for 1/2/3 cylinders  
 Rack for 4/5/6 cylinders (on request)

### SAFETY DEVICES

Steel chain for keeping the cylinder fixed

### DOCUMENTATION

Declaration of Conformity and Instruction for use

| code          | Description                      |
|---------------|----------------------------------|
| CO.400.13101L | RACK FOR CYLINDERS 40/50 1 SEATS |
| CO.400.13102L | RACK FOR CYLINDERS 40/50 2 SEATS |
| CO.400.13103L | RACK FOR CYLINDERS 40/50 3 SEATS |

# FLEXIBLE HOSE FOR TECHNICAL GAS

## SERIES DFL



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

### TECHNICAL FEATURES PERFORMANCE

|                             |  |
|-----------------------------|--|
| Gas                         | HP compressed  |
| Operating temperature       | -60° C +260° C                                       |
| Minimum radius of curvature | 35   |
| Max working pressure        | 400 bar  |
| Min. burst pressure         | 1600 bar   |
| Internal dm                 | 6,5 mm   |
| External dm                 | 12,5 mm  |
| Safety factor               | greater than 1:4 (operating pressure/burst pressure) |

### MATERIALS

Under layer Smooth PTFE extruded and sintered without high thickness joints  
Cover High resistance treated AISI 304 stainless steel braid

Reinforce braided Kevlar  
Hemming

- Hoses for oxygen use with AISI304 1/4" g. nut, brass nose cone
- Hoses for various gas use with 1/4" nut, AISI304 nose cone

### CONNECTIONS

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

### DIMENSIONS

500 mm (without safety cord)  
1000/1500/3000 mm (with safety cord)

### ACCESSORY DEVICES

Specific brass fittings for hoses

### SAFETY DEVICES

Integrated anti-swing safety lanyard. Use for emptying pressure oxygen containers is prohibited

| code      | Description                                       | Inlet | outlet | Size | Gas      |
|-----------|---|-------|--------|------|----------|
| 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       |
| DFLO20025 | FLEXIBLE 1/4" 2,5M FOR OXYGEN W/SAFETY CORD       | G 1/4 | G 1/4  | 2,5m | O2       |
| DFLO20030 | FLEXIBLE 1/4" 3M FOR OXYGEN W/SAFETY CORD         | G 1/4 | G 1/4  | 3m   | O2       |
| DFLO20050 | FLEXIBLE 1/4" 5M FOR OXYGEN W/SAFETY CORD         | G 1/4 | G 1/4  | 5m   | O2       |
| DFLO20060 | FLEXIBLE 1/4" 6M FOR OXYGEN W/SAFETY CORD         | G 1/4 | G 1/4  | 6m   | O2       |
| DFLO20070 | FLEXIBLE 1/4" 7M FOR OXYGEN W/SAFETY CORD         | G 1/4 | G 1/4  | 7m   | O2       |
| 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 |
| DFLGV0130 | FLEXIBLE 3M FOR VARIOUS GASES W/SAFETY CORD       | G 1/4 | G 1/4  | 3m   | GAS VARI |
| DFLGV0140 | FLEXIBLE 4M FOR VARIOUS GASES W/SAFETY CORD       | G 1/4 | G 1/4  | 4m   | GAS VARI |
| DFLGV0145 | FLEXIBLE 4,5M FOR VARIOUS GASES W/SAFETY CORD     | G 1/4 | G 1/4  | 4,5m | GAS VARI |

## FLEXIBLE HOSE FOR ACETYLENE GPL

### SERIES DFLAD



Hoses particularly suitable for loading cylinders, drain collectors and pressure transfers.



### TECHNICAL FEATURES PERFORMANCE

|   |                  |
|---|------------------|
| Gas   | Compressed       |
| Operating temperature                             | -40° C +100°C    |
| Minimum radius of curvature                       | 40               |
| Max working pressure                              | 300 bar          |
| Min. burst pressure                               | 1300 bar         |
| Internal dm                                       | 6,5 mm           |
| External dm                                       | 1 mm             |
| Safety factor (operating pressure/burst pressure) | greater than 1:4 |

### MATERIALS

|            |  |
|------------|--|
| Underlayer | Smooth extruded polyamide without joints           |
| Cover      | Micro-perforated polyurethane sheath, orange color |
| Reinforce  | A high resistant steel braid                       |

### CONNECTIONS

|        |                  |
|--------|------------------|
| Inlet  | 1/4" G. F. right |
| Outlet | 1/4" G. F. right |

### DIMENSIONS

Dimensions 500/1000/1500/3000 mm (without cord)  
 Other sizes on request

### ACCESSORY DEVICES

Specific brass fittings for hoses

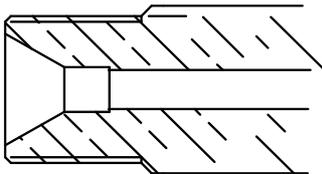
| code      | Description                        | Inlet         | outlet        | Gas  |
|-----------|------------------------------------|---------------|---------------|------|
| DFLAD0005 | FLEXIBLE 0.5M ACETYLENE ATT.1/4"F. | 1/4" G. F. Dx | 1/4" G. F. Dx | C2H2 |
| DFLAD0010 | FLEXIBLE 1M ACETYLENE ATT.1/4"F.   | 1/4" G. F. Dx | 1/4" G. F. Dx | C2H2 |
| DFLAD0015 | FLEXIBLE 1,5M ACETYLENE ATT.1/4"F. | 1/4" G. F. Dx | 1/4" G. F. Dx | C2H2 |
| DFLAD0020 | FLEXIBLE 2M ACETYLENE ATT.1/4"F.   | 1/4" G. F. Dx | 1/4" G. F. Dx | C2H2 |

## SHANK FOR HOSES

### SERIES DCODOLO



Brass fittings for gas.



### TECHNICAL FEATURES

#### MATERIALS

Body Brass -CW617N-UNI EN 12165

#### CONNECTIONS

Shank 1/4" G.BSP  
Hexagonal nut UNI 11144/2 Oxygen  
UNI 11144/5 Nitrogen  
UNI 11144/8 Argon  
UNI 11144/6 Air  
UNI 11144/1H Hydrogen  
UNI 11144/7S Acetylene bracket  
NF E 29-658 French Acetylene

#### DIMENSIONS

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

#### ACCESSORY DEVICE

Gasket

Degreasing treatment for all fittings.

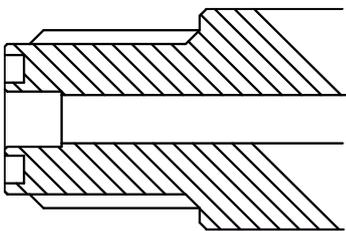
| code  | Description                             | Inlet  | outlet | treatment | Gas     |
|-------|---|--------|--------|-----------|---------|
| 1420  | SHANK O2 L.27 GC1/4                     | RC 1/4 | UNI 2  |           | O2 CO2  |
| 1421  | SHANK O2 L.50 GC1/4                     | G 1/4  | UNI 2  | CROMATO   | O2 CO2  |
| 1423  | SHANK O2 L.95 G1/4                      | G 1/4  | UNI 2  |           | O2 CO2  |
| 1428  | SHANK O2 L55MM G1/4 FOR HOSES           | G 1/4  | UNI 2  |           | O2 CO2  |
| 1428A | SHANK O2 15X1,25 L50,0 FOR RED.MINI IMP | G 1/4  | UNI 2  |           | O2 CO2  |
| 1436  | SHANK AR-HE L.59 CHROMED                | G 1/4  | UNI 8  | CROMATO   | AR-HE   |
| 1468A | SHANK CO2 MEDICAL LONG SERIES L.95      | G 1/4  | UNI 10 |           | CO2 MED |
| 1468  | SHANK CO2 MEDICALE                      | RC 1/4 | UNI 10 |           | CO2 MED |
| 1438  | CODOLO AR-HE L.95                       | G 1/4  | UNI 8  |           | AR-HE   |
| 1440  | SHANK AR-HE L.95 CROMATO                | RC 1/4 | UNI 8  | CROMATO   | AR-HE   |
| 1432  | CODOLO ARIA L.50                        | RC 1/4 | UNI 6  |           | ARIA    |
| 1435  | SHANK AIR L.95                          | RC 1/4 | UNI 6  |           | ARIA    |
| 1441  | SHANK N2 L.50 CHROMED                   | G 1/4  | UNI 5  | CROMATO   | N2      |
| 1444  | SHANK N2 L.95                           | G 1/4  | UNI 5  |           | N2      |
| 3110  | SHANK N2O L.95 DIN (477/11)             | RC 1/4 | DIN 11 |           | N2O     |
| 1880  | SHANK FOR BRACKET C2H2 DIN3             | G 1/4  | DIN 3  |           | C2H2    |
| 1895  | SHANK C2H2 FOR NUT G5/8 SIN             | G 1/4  | NF A H |           | C2H2    |

# shank for O-RING

## SERIES DCODOLO



Brass gas fittings



### TECHNICAL FEATURES

#### MATERIALS

Body Brass -CW617N-UNI EN 12165

#### CONNECTIONS

Shank **g**  
Hexagonal nut UNI 11144/2 Oxygen  
UNI 11144/5 Nitrogen  
UNI 11144/8 Argon  
UNI 11144/6 Air  
UNI 11144/1H Hydrogen  
UNI11144/7S Acetylene bracket  
NF E 29-658 French Acetylene

#### DIMENSIONS

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

#### ACCESSORY DEVICE

Gasket

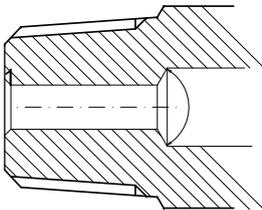
Degreasing treatment for all fittings.

| code   | Description   | Inlet | outlet | treatment | Gas     |
|--------|---|-------|--------|-----------|---------|
| 1420R  | SHANK UNI 11144 GR II O2 CO2 G ¼ SHORT                              | RC ¼  | UNI 2  |           | O2 CO2  |
| 1421R  | SHANK UNI 11144 GR II O2 CO2 G ¼ MEDIUM W/OR CHROMED                | G ¼   | UNI 2  | CROMATO   | O2 CO2  |
| 1423R  | SHANK UNI 11144 GR II O2 CO2 RC ¼ LONG W/OR                         | G ¼   | UNI 2  |           | O2 CO2  |
| 1428R  | SHANK UNI 11144 GR II O2 CO2 G ¼ MEDIUM W/ORING SEALING             | G ¼   | UNI 2  |           | O2 CO2  |
| 1428AR | SHANK UNI 11144 GR II O2 CO2 G ¼ MEDIUM W/ORING SEALING             | G1/4  | UNI 2  |           | O2 CO2  |
| 1436R  | SHANK UNI 11144 GR VIII AR-HE G ¼ MEDIUM W/ORING SEALING<br>CHROMED | G ¼   | UNI 8  | CROMATO   | AR-HE   |
| 1468AR | SHANK UNI 11144 GR X CO2 MED G ¼ LONG ORING SEALING                 | G1/4  | UNI 10 |           | CO2     |
| 1468R  | SHANK UNI 11144 GR X CO2 MED G ¼ MEDIUM ORING SEALING               | RC ¼  | UNI 10 |           | CO2 MED |
| 1438R  | SHANK UNI 11144 GR VIII AR-HE G ¼ LONG W/ORING SEALING              | G ¼   | UNI 8  |           | AR-HE   |
| 1440R  | SHANK UNI 11144 GR VIII AR-HE G ¼ LONG W/ORING SEALING              | RC ¼  | UNI 8  | CROMATO   | AR-HE   |
| 1432R  | SHANK UNI 11144 GR VI AIR G ¼ MEDIUM W/ORING SEALING                | RC ¼  | UNI 6  |           | ARIA    |
| 1435R  | SHANK UNI 11144 GR VI ARIA G ¼ LUNGO W/ORING SEALING                | RC ¼  | UNI 6  |           | ARIA    |
| 1441R  | SHANK UNI 11144 GR V N2 G ¼ MEDIUM W/ORING SEALING<br>CHROMED       | G ¼   | UNI 5  | CROMATO   | N2      |
| 1444R  | SHANK UNI 11144 GR V N2 G ¼ LONG W/ORING SEALING                    | G ¼   | UNI 5  |           | N2      |
| 3110R  | SHANK DIN 477 GR IX N20 G ¼ LONG ORING SEALING                      | RC ¼  | DIN 11 |           | N20     |
| 1880R  | SHANK DIN 477 GR VII C2H2 G ¼ MEDIUM ORING SEALING                  | G ¼   | DIN 3  |           | C2H2    |
| 1895R  | SHANK NF E 29-650 GR VII C2H2 G ¼ LONG ORING SEALING                | G ¼   | NF A H |           | C2H2    |

## CONICAL SHANK



Brass gas fittings



### TECHNICAL FEATURES

#### MATERIALS

**Body** Brass -CW617N-UNI EN 12165

#### CONNECTIONS

Shank 1/4" G.BSP  
Hexagonal nut UNI 11144/2 Oxygen  
UNI 11144/5 Nitrogen  
UNI 11144/8 Argon  
UNI 11144/6 Air  
UNI 11144/1H Hydrogen  
UNI11144/7S Acetylene bracket  
NF E 29-658 French Acetylene

#### DIMENSIONS

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

#### ACCESSORY DEVICE

Gasket

Degreasing treatment for all fittings.

availability:to be confirmed

| code   | Description   | Inlet  | outlet | treatment | Gas     |
|--------|---|--------|--------|-----------|---------|
| 1420C  | SHANK UNI 11144 GR II O2 CO2 RC1/4 SHORT CONE SHAPE           | RC 1/4 | UNI 2  |           | O2 CO2  |
| 1421C  | SHANK UNI 11144 GR II O2 CO2 41MM W/OR SEALING 11 MM          | G 1/4  | UNI 2  | CROMATO   | O2 CO2  |
| 1423C  | SHANK UNI 11144 GR II O2 CO2 RC1/4 LONG CONE SHAPE            | RC 1/4 | UNI 2  |           | O2 CO2  |
| 1428C  | SHANK UNI 11144 GR II O2 CO2 RC1/4 MEDIUM CONE SHAPE          | G 1/4  | UNI 2  |           | O2 CO2  |
| 1428AC | SHANK UNI 11144 GR II O2 CO2 RC1/4 MEDIUM CONE SHAPE          | RC1/4  | UNI 2  |           | O2 CO2  |
| 1436C  | SHANK UNI 11144 GR VIII AR-HE RC1/4 MEDIUM CONE SHAPE CHROMED | G 1/4  | UNI 8  | CROMATO   | AR-HE   |
| 1468AC | SHANK UNI 11144 GR X CO2 MED RC1/4 LONG CONE SHAPE            | RC1/4  | UNI 10 |           | CO2     |
| 1468C  | SHANK UNI 11144 GR X CO2 MED RC1/4 MEDIUM CONE SHAPE          | RC 1/4 | UNI 10 |           | CO2 MED |
| 1438C  | SHANK UNI 11144 GR VIII AR-HE RC1/4 LONG CONE SHAPE           | G 1/4  | UNI 8  |           | AR-HE   |
| 1440C  | SHANK UNI 11144 GR VIII AR-HE RC1/4 LONG CONE SHAPE CHROMED   | RC 1/4 | UNI 8  | CROMATO   | AR-HE   |
| 1432C  | SHANK UNI 11144 GR VI AIR RC1/4 MEDIUM CONE SHAPE             | RC 1/4 | UNI 6  |           | ARIA    |
| 1435C  | SHANK UNI 11144 GR VI AIR RC1/4 LONG CONE SHAPE               | RC 1/4 | UNI 6  |           | ARIA    |
| 1441C  | SHANK UNI 11144 GR V N2 RC1/4 MEDIUM CONE SHAPE CHROMED       | G 1/4  | UNI 5  | CROMATO   | N2      |
| 1444C  | SHANK UNI 11144 GR V N2 RC1/4 LONG CONE SHAPE                 | G 1/4  | UNI 5  |           | N2      |
| 3110C  | SHANK DIN 477 GR IX N20 RC1/4 LONG CONE SHAPE                 | RC 1/4 | DIN 11 |           | N20     |
| 1880C  | SHANK DIN 477 GR VII C2H2 RC1/4 MEDIUM CONE SHAPE             | G 1/4  | DIN 3  |           | C2H2    |
| 1895C  | SHANK NF E 29-650 GR VII C2H2 RC1/4 LONG CONE SHAPE           | G 1/4  | NF A H |           | C2H2    |

# NUT



## TECHNICAL FEATURES

### MATERIALS

Body Brass - CW617N-UNI EN 12165

### CONNECTIONS

Shank 1/4" G.BSP

Hexagonal nut UNI 11144/2 Oxygen

UNI 11144/5 Nitrogen

UNI 11144/8 Argon

UNI 11144/6 Air

UNI 11144/1H Hydrogen

UNI11144/7S Acetylene bracket

NF E 29-658 French Acetylene

### DIMENSIONS

Length 45/60/45 mm (shank)

22/27/28/22 mm (nut)

### ACCESSORY DEVICE

Gasket

Degreasing treatment for all fittings.

| code  | Description                                | outlet | treatment | type | Gas     |
|-------|--|--------|-----------|------|---------|
| 1475  | NUT UNI 11144 GR II O2 CO2 MG              | UNI 2  | -         | MG   | O2 CO2  |
| 1424  | HAND NUT O2 ABS WHITE LONG VERSION         | UNI 2  | -         | MG   | O2      |
| 1424C | HAND NUT O2 ABS WHITE SHORT VERSION        | UNI 2  | -         | MG   |         |
| 1425  | NUT UNI 11144 GR II O2 CO2 DIN 6 CO2 AR HE | UNI 2  | -         | D    | O2 CO2  |
| 1472  | NUT DIN 477 NR 9 O2 D                      | DIN 9  | -         | D    | O2      |
| 1469  | NUT UNI 11144 GR X CO2 MED MG              | UNI 10 | -         | MG   | CO2 MED |
| 1437  | NUT UNI 11144 GR VIII AR-HE D              | UNI 8  | -         | D    | AR-HE   |
| 1447  | NUT UNI 11144 GR VIII AR-HE D CHROM        | UNI 8  | CROMATO   | D    | AR-HE   |
| 1433  | NUT UNI 11144 GR VI AIR M                  | UNI 6  | -         | M    | ARIA    |
| 1434  | NUT UNI 11144 GR VI AIR D                  | UNI 6  | -         | D    | ARIA    |
| 1896  | NUT UNI 11144 GR VII C2H2 D                | UNI 7S | -         | D    | C2H2    |
| 1892  | NUT UNI 11144 GR I GPL D                   | UNI 1H | -         | D    | GPL     |
| 1888  | NUT UNI 11144 GR I H2 D CHROM              | UNI 1H | CROMATO   | D    | H2      |
| 1889  | NUT UNI 11144 GR I H2 D                    | UNI 1H | -         | D    | H2      |
| 3107  | NUT DIN 477 NR 1 H2 D                      | DIN 1  | -         | D    | H2      |
| 1442  | NUT UNI 11144 GR V N2 M                    | UNI 5  | -         | M    | N2      |
| 1443  | NUT UNI 11144 GR V N2 D                    | UNI 5  | -         | D    | N2      |
| 1446  | NUT UNI 11144 GR V N2 D CHROM              | UNI 5  | CROMATO   | D    | N2      |
| 1473  | NUT DIN 477 NR 10 N2 D                     | DIN 10 | -         | D    | N2      |
| 1453  | NUT UNI 11144 GR IX N20 M                  | UNI 9  | -         | M    | N20     |

NP= net price

## FITTINGS FOR TECHNICAL GAS HOSES

### SERIES DCODOLO



Brass gas fittings



### TECHNICAL FEATURES

#### MATERIALS

Body Brass -CW617N-UNI EN 12165

#### CONNECTIONS

Shank 1/4" G. M  
Hexagonal Nut UNI 11144/2 Oxygen  
UNI 11144/5 Nitrogen  
UNI 11144/8 Argon  
UNI 11144/6 Air  
UNI 11144/1H Hydrogen  
UNI11144/7S Acetylene bracket  
NF E 29-658 French Acetylene

### DIMENSIONS

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

### ACCESSORY DEVICES

Gasket

Degreasing treatment for all fittings.

| code    | Description  | Inlet | outlet | type | Gas    |
|---------|--|-------|--------|------|--------|
| 9323    | SET CODOLO NF E 29-650 B O2 G ¼ D FOR HOSE             | G ¼   | NF B   | D    | O2     |
| 9324    | SHANK KIT UNI 11144 GR II O2 CO2 G ¼ D FOR HOSE        | G ¼   | UNI 2  | D    | O2 CO2 |
| 9327    | SHANK KIT UNI 11144 GR V N2 G ¼ D FOR HOSE             | G ¼   | UNI 5  | D    | N2     |
| 9328    | SHANK KIT UNI 11144 GR VIII AR-HE G ¼ D FOR HOSE       | G ¼   | UNI 8  | D    | AR-HE  |
| 9332    | SHANK KIT DIN 477 NR 9 O2 G ¼ D                        | G ¼   | DIN 9  | D    | O2     |
| 9329    | SHANK KIT UNI 11144 GR I H2 G ¼ D FOR HOSE             | G ¼   | UNI 1H | D    | H2     |
| 9330    | SHANK KIT UNI 11144 GR VI AIR G ¼ D MEDIUM             | G ¼   | UNI 6  | D    | ARIA   |
| 9040    | C2H2 BRACKET SET                                       | G ¼   |        |      | C2H2   |
| 9322    | SET CODOLO NF E 29-650 A H C2H2 G ¼ D LUNGO PER FRUSTA | G ¼   | NF A H | D    | C2H2   |
| 9347    | SHANK SET C2H2 BRACKET UNI 1114477S                    | G ¼   | UNI 7S |      | C2H2   |
| 9347DIN | SET CODOLO C2H2 STAFFA DIN                             | G ¼   | DIN 3  |      | C2H2   |



| code     | Description                  | Ø outside | Ø inside | thickness | Gas   |
|----------|------------------------------|-----------|----------|-----------|-------|
| DGUARNH2 | NYLON H2 GASKET              | 19 mm     | 11mm     | 2mm       | H2    |
| DGUARNO2 | O2/NITROGEN GASKET NYLON UNI | 19 mm     | 11mm     | 2mm       | O2 N2 |
| DGUARTO2 | O2 TEFLON UNI GASKET         | 18 mm     | 11mm     | 2mm       | O2    |
| DGUARAD  | ACETYLENE LEATHER GASKET     |           |          |           | C2H2  |

# SHANK AND RAPID NUT FOR TECHNICAL GAS HOSES

## SERIES DCODOLO



### TECHNICAL FEATURES

#### MATERIALS

**Body** Brass -CW617N-UNI EN 12165

#### CONNECTIONS

**Shank** 1/4" G. M  
**Hexagonal Nut** UNI 11144/2 Oxygen  
 UNI 11144/5 Nitrogen  
 UNI 11144/8 Argon  
 UNI 11144/6 Air  
 UNI 11144/1H Hydrogen  
 UNI11144/7S Acetylene bracket  
 NF E 29-658 French Acetylene

#### DIMENSIONS

**Length** 45/60/45 mm (shank)  
 22/27/28/22 mm (nut)

Brass fittings for technical gases. Brass bar processing made with CNC. Metal-sealed shanks for hoses with connection G. 1/4". Degreasing treatment for oxygen use.

### ACCESSORY DEVICES

Gasket

Degreasing treatment for all fittings.  
 Degreasing treatment for oxygen use



| code  | Description   | Inlet | outlet | type | Gas     |
|-------|---|-------|--------|------|---------|
| 9322M | SHANK SET NF E 29-650 A H C2H2 G ¼ D LONG                   | G ¼   | NF AH  | D    | C2H2    |
| 9323M | SET CODOLO NF E 29-650 B O2 G ¼ FOR HOSE                    | G ¼   | UNI 2  |      | O2      |
| 9324M | SHANK KIT UNI 11144 GR II O2 CO2 G ¼ MG LONG FOR HOSE       | G ¼   | UNI 2  | MG   | O2 CO2  |
| 9325  | SHANK KIT UNI 11144 GR II O2 CO2 G ¼ M MEDIUM               | G ¼   | UNI 2  | M    | O2 CO2  |
| 9327M | SHANK KIT UNI 11144 GR V N2 G ¼ M LONG FOR HOSE             | G ¼   | UNI 5  | M    | 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  | M    | ARIA    |
| 9341M | SHANK SET UNI 11144 GR IX N2O G ¼ M MEDIUM                  | G ¼   | UNI 9  | M    | N2O     |
| 9336M | SHANK KIT UNI 11144 GR X CO2 MED G ¼ MG LONG CHROM FOR HOSE | G ¼   | UNI 10 | MG   | CO2 MED |
| 9345M | SHANKS SET UNI 11144 GR I GPL G ¼ M MED FOR HOSE            | G ¼   | UNI 1H | M    | GPL     |
| 9346M | SHANK SET UNI 11144 GR I H2 G ¼ FOR HOSE                    | G ¼   | UNI 1H |      | H2      |



# CHROMED FITTINGS FOR TECHNICAL GAS HOSES

## SERIES DCODOLO



Fittings in chromed brass for gas



### TECHNICAL FEATURES

#### MATERIALS

Body Brass -CW617N-UNI EN 12165

#### CONNECTIONS

Shank 1/4" G. M  
Hexagonal Nut UNI 11144/2 Oxygen  
UNI 11144/5 Nitrogen  
UNI 11144/8 Argon  
UNI 11144/6 Air  
UNI 11144/1H Hydrogen

#### DIMENSIONS

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

#### ACCESSORY DEVICES

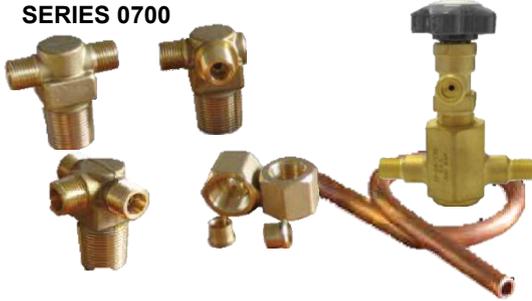
Seals

| code          | Description   | Inlet     | outlet | Gas       |
|---------------|---|-----------|--------|-----------|
| 9324CR        | SHANK KIT UNI 11144 GR II O2 CO2 G 1/4 MEDIUM CHROM FOR HOSE    | G 1/4     | UNI 2  | O2 CO2    |
| 9327CR        | SHANK KIT UNI 11144 GR V N2 G 1/4 D MEDIUM CHORM FOR HOSE       | G 1/4     | UNI 2  | N2        |
| 9328CR        | SHANK KIT UNI 11144 GR VIII AR-HE G 1/4 D MEDIUM CHORM FOR HOSE | G 1/4     | UNI 2  | AR-HE     |
| 9329CR        | SHANK KIT UNI 11144 GR I H2 G 1/4 D CHROM                       | G 1/4     | UNI 1H | H2        |
| 9330CR        | SHANK KIT UNI 11144 GR VI AIR G 1/4 CHORM FOR HOSE              | G 1/4     | UNI 6  | ARIA      |
| 9336          | SHANK KIT UNI 11144 GR X CO2 MED G 1/4 CHROM                    | G 1/4     | UNI 10 | CO2 MED   |
| 9332          | SHANK KIT DIN 477 NR 9 O2 G 1/4 D                               | G 1/4     | DIN 9  | O2        |
| 9317          | SHANK KIT O2 CGA FOR HOSE                                       |           |        | O2        |
| 9319          | SHANK KIT ISO 300 BAR INERT 5145                                | G 1/4     | 5145,0 | INERTI    |
| 9318          | SHANK KIT ISO 300 OXIDIZING BAR 5145                            | G 1/4     | 5145,0 | OSSIDANTI |
| CO.503.10834  | PIN INDEX YOKE ISO 407 N2 G 1/4 CR                              | Pin Index | G1/4   | N2        |
| CO.503.10835  | PIN INDEX YOKE ISO 407 N2O G 1/4 CR                             | Pin Index | G1/4   | N2O       |
| CO.503.10836  | PIN INDEX YOKE ISO 407 O2 G 1/4 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 1/4 CR                             | Pin Index | G1/4   | CO2       |
| CO.503.10838  | PIN INDEX YOKE ISO 407 AIR G 1/4 CHROME                         | Pin Index | G1/4   | ARIA      |
| CO.503.10839  | PIN INDEX ISO 407 AR-HE G 1/4 CHROMED                           | Pin Index | G1/4   | AR-HE     |



# BLOCKS AND CURLS FOR CYLINDER PACKS 10 MM

## SERIES 0700



HP brass blocks with nut and ogive for assembling technical gas cylinder packs.

### DESCRIPTION

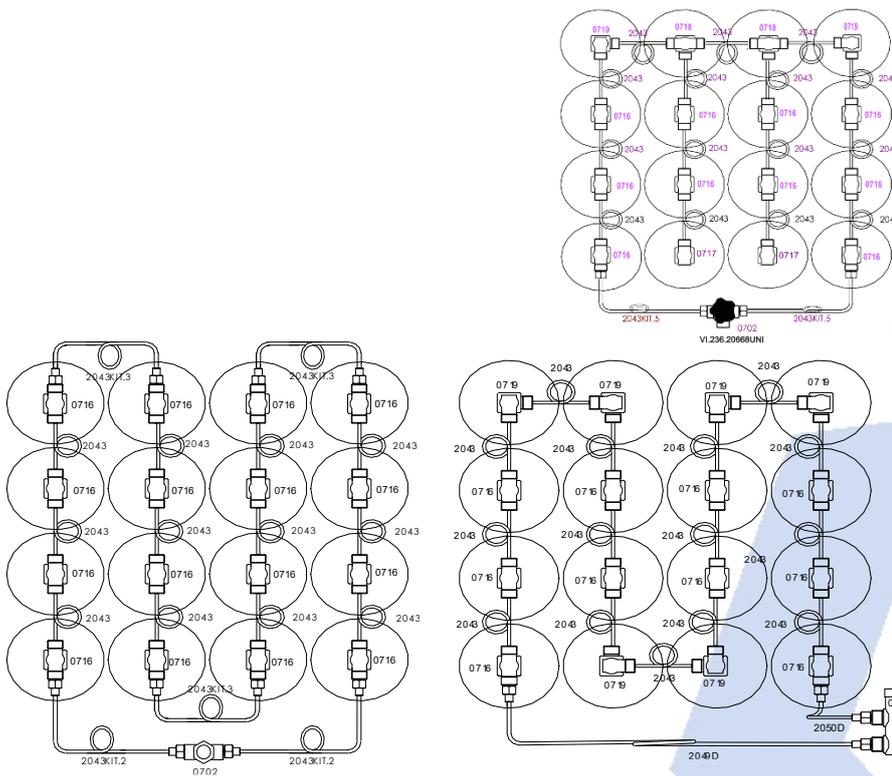
HP Block in brass for cylinder packs

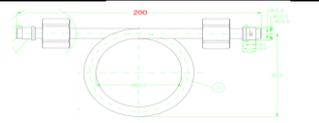
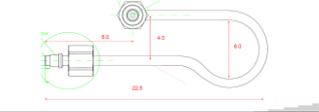
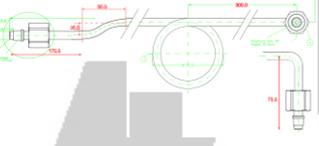
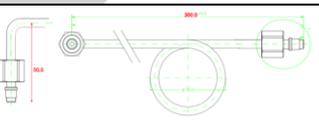
Copper curls 10mm

Nut and ogive in Brass -CW617N-UNI EN 12165 for copper tube of 10 mm.

Valve support Brass -CW617N-UNI EN 12165

Degreased and treated for HP at 300 bar.



|            |   |
|------------|---|
| 2043       |    |
| 2050D      |    |
| 2049D      |    |
| 2043KIT. 3 |   |
| 2043Kit 4  |  |
| 2043KIT. 5 |  |

| code         | Description  | Ø     |          |         |
|--------------|--|-------|----------|---------|
|              |  | Inlet | outlet   | outside |
| 0716         | CONN. 2WAYS 25E OUT M20X1.5 AT 180°                                      | 25E   | 20,7     | 10mm    |
| 0717         | CONN. 1 WAY 25E OUT M20X1.5  | 25E   | M20X1,5  | 10mm    |
| 0717A        | CONN. 1WAY 25E OUT 21,7-1/14"  | 25E   | 21,7     | 10mm    |
| 0718         | CONN. 3 WAYS 25E OUT M20X1.5   | 25E   | M20X1,5  | 10mm    |
| 0719         | CONN. 2 WAYS 25E OUT M20X1.5 AT 90°                                      | 25E   | M20X1,5  | 10mm    |
| 0702         | VALVE HOLDER OUT PIPE 10   |       |          | 10mm    |
| 0702A        | VALVE HOLDER PIPE 10 RIVOIRA   |       |          | 10mm    |
| 0702B        | VALVE HOLDER 20X1.5 SHOULDER PIPE 10 RIVOIRA                             |       |          | 10mm    |
| 1096         | OGIVA PER TUBO Ø 10  |       |          | 10mm    |
| 1097A        | NUT M20X1.5 FOR Ø 10   |       |          | 10mm    |
| 1097         | DADO M20X1.5 PER EMBOLO TUBO Ø 10 INOX AISI 304L                         |       |          | 10mm    |
| RTUBORAME13  | COPPER CURLS LG.210 DIAM10MM   |       |          | 10mm    |
| 2049D        | LONG PIPE MANIF.10 MM. TEN.EMBOLO 2 SIDE NUT SHOUDLER                    |       |          | 10mm    |
| 2050D        | SHORT PIPE MANIF.10 MM. TEN.EMBOLO 2 SIDE NUT SHOUDLER                   |       |          | 10mm    |
| 2043         | CURLS IN LINE Ø10 MM.COPPER W/SEALING CONE ANNEALED TUBE 10 SCHEDULE 2.5 |       |          | 10mm    |
| 2043KIT.1    | CURLS KIT 1 Ø10 MM.COPPER W/SEALING CONE ANNEALED TUBE 10 SCHEDULE 2.5   |       |          | 10mm    |
| 2043KIT.2    | CURLS KIT 2 Ø10 MM.COPPER W/SEALING CONE ANNEALED TUBE 10 SCHEDULE 2.5   |       |          | 10mm    |
| 2043KIT.3    | CURLS KIT 3 Ø10 MM.COPPER W/SEALING CONE ANNEALED TUBE 10 SCHEDULE 2.5   |       |          | 10mm    |
| 2043KIT.4    | CURLS KIT 4 Ø10 MM.COPPER W/SEALING CONE ANNEALED TUBE 10 SCHEDULE 2.5   |       |          | 10mm    |
| VI.222.20716 | VAL.FUTURA PACKAGES 25E 21.7X14"+21.7X14                                 | 25E   | 21,7X1/4 | 10mm    |
| VI.351.20717 | VAL.FUT PACKAGES 25E M20X1.5 + M20X1.5 3                                 | 25E   | M20X1,5  |         |

### Series DRIC



High pressure curl for ramp to ramp or panel ramp.

#### APPLICATIONS

Ramp to ramp connection

#### TECHNICAL FEATURES

#### PERFORMANCE

Gas

Various gases HP

Operating temperature

-15° +60° C

#### MATERIALS

Body

Copper tube diam. 4x8 mm.

Fittings

Welded brass fittings

#### CONNECTIONS

Inlet

UNI

Outlet

UNI

Operating pressure

220 bar

220 b

| code    | Description   | Inlet  | outlet | Gas |
|---------|---|--------|--------|-----|
| DRIC500 | COPPER CURLS DIAM.8X4 O2 LG500 UNI UNI 11144/2-UNI11144/5 | UNI 2  | UNI/2  | O2  |
| DRIC501 | COPPER CURLS DIAM.8X4 H2 LG500 UNI UNI 11144/2-UNI11144/5 | UNI 1H | UNI 2  | H2  |

## COPPER COIL FOR INDUSTRIAL GASES

### Serie DSER

Coil for HP for the connection of decompression ramp/industrial gas cylinder



| code             | Description  | Inlet | outlet | Size | Gas    |
|------------------|--|-------|--------|------|--------|
| DSER1000         | COPPER COIL MM. 8X4 O2 LG1000 UNI UNI 11144/2                  | UNI 2 | UNI/2  | 1m   | O2     |
| DSER1000DIN6     | COPPER COIL MM.8X4 O2 LG.1000 DIN6                             | DIN 6 | UNI 2  | 1m   | O2     |
| DSER1000DIN9     | COPPER COIL MM. 8X4 O2 LG1000 DIN9                             | DIN 9 | UNI 2  | 1m   | O2     |
| DSER1000DINSCUBA | COPPER COIL G5/8 AIR 200 BA LG1000                             | G5/8  | G5/8   | 1m   | ARIA   |
| DSER1001         | COPPER COIL MM. 8X4 N2 L.1000 NITROGEN UNI 11144/2-UNI11144/5  | UNI 2 | UNI/5  | 1m   | N2 N2  |
| DSER1002         | COPPER COIL MM. 8X4 ARG LG1000 UNI 11144/2-UNI11144/5          | UNI 2 | UNI/8  | 1m   | AR- HE |
| DSER1003         | COPPER COIL MM. 8X4 H2 LG1000 UNI 11144/2-UNI11144/5           | UNI 2 | UNI/1H | 1m   | H2     |
| DSER1004         | COPPER COIL MM. 8X4 N2O LG1000 UNI 11144/2-UNI11144/5          | UNI 2 | UNI/9  | 1m   | N2O    |
| DSER1005         | SERPENTINA RAME MM. 8X4 ARIA LG1000 UNI UNI 11144/2-UNI11144/5 | UNI 2 | UNI/6  | 1m   | ARIA   |
| DSER2000         | COPPER COIL MM. 8X4 O2 LG2000 UNI 11144/2-UNI11144/5           | UNI 2 | UNI 2  | 2m   | O2     |

## RAMP FOR INDUSTRIAL GAS

Serie CO.300



Modular ramp for the centralization of technical gas systems.

### APPLICATIONS

Application: Industrial gas decompression

### TECHNICAL FEATURES

#### PERFORMANCE

|                       |             |
|-----------------------|-------------|
| Gas                   | Comburent   |
| Inlet pressure        | 220 bar     |
| Operating temperature | -20° +60° C |

#### MATERIALS

|                        |                         |
|------------------------|-------------------------|
| Shutter                | Nylon with brass pit    |
| Valve body             | Brass CW617N-UNI EN     |
| Collettore ???         |                         |
| Brass blocks           |                         |
| HP chromed copper tube |                         |
| Angular support        | Brushed stainless steel |

#### CONNECTIONS

|        |                               |
|--------|-------------------------------|
| Inlet  | UNI 11144/2 (oxidising gases) |
| Outlet | UNI 11144/2 (oxidising gases) |

#### SAFETY

Single unit test

#### SAFETY DEVICES

Futura valve model with non-return system in the stem

#### DOCUMENTATION

Conformity Declaration and Instruction of use

## INDUSTRIAL GAS RAMP WITH UNI 11144/2 SHUT-OFF VALVE WITH OR WITHOUT NON-RETURN VALVES

### Series DRAGV

Modular ramp for the centralization of technical gas systems.



RNIPOLOSSIGENO

### RNIPOIDROGENO RNIPOIDROGENO

Swivel joint for ramp / ramp connection.

| code           | Description  | Inlet       | outlet      | Size       |
|----------------|--|-------------|-------------|------------|
| CO.300.13021   | 1 PLACE VARIOUS GAS RAMP                           | W21,7 X1/4" | UNI/2       | H9 L15 P16 |
| CO.300.13022   | 2 PLACE VARIOUS GAS RAMP                           | W21,7 X1/4" | UNI 2       | H9 L37 P16 |
| CO.300.13023   | 3 PLACE RAMP FOR VARIOUS GAS                       | W21,7 X1/4" | UNI 2       | H9 L62 P16 |
| RNIPOLOSSIGENO | SWIVEL CONN.VARIOUS GAS 21.7FX21.7F RIGHT FOR RAMP | W21,7 X1/4" | W21,7 X1/4" |            |

## INDUSTRIAL RAMP UNI11144/IH SHUT-OFF VALVE HYDROGEN

### Series DRAH

Modular ramp for the centralization of hydrogen systems.



RNIPOIDROGENO

Swivel joint for ramp / ramp connection.

| code           | Description  | Inlet       | outlet      | Size       | Gas     |
|----------------|--|-------------|-------------|------------|---------|
| CO.300.13011   | RAMP 1 PLACE H2                                    | W20x1/4 LH  | UNI/1H      | H9 L15 P16 | H2      |
| CO.300.13012   | RAMP 2 PLACES H2                                   | W20x1/4 LH  | UNI 2       | H9 L37 P16 | H2      |
| CO.300.13013   | RAMP 3 PLACES H2                                   | W20x1/4 LH  | UNI 2       | H9 L62 P16 | H2      |
| RNIPOLOSSIGENO | SWIVEL CONN.VARIOUS GAS 21.7FX21.7F RIGHT FOR RAMP | W21,7 X1/4" | W21,7 X1/4" |            | O2 VARI |

## INDUSTRIAL RAMP ACETYLENE SHUT-OFF VALVE NF E 29-658

### Series DRAD

Modular ramp for the centralization of systems with acetylene.



RNIPOIDROGENO

Swivel joint for ramp / ramp connection.

| code           | Description                                     | Inlet  | outlet          | Size       |
|----------------|---|--------|-----------------|------------|
| CO.300.13001   | RAMP 1 PLACE C2H2                               | 5/8" M | NF E 29-658     | H9 L15 P16 |
| CO.300.13002   | RAMP 2 PLACES C2H2                              | 5/8" M | UNI 2           | H9 L37 P16 |
| CO.300.13003   | RAMP 3 PLACES C2H2                              | 5/8" M | UNI 2           | H9 L62 P16 |
| RNIPOACETILENE | SWIVEL CONN. ACET 5/8"M.X5/8"M.LEFT NF FOR RAMP | 5/8" M | 5/8" M Sinistro |            |

## PURE GAS RAMP WITH PURGE

Modular ramp for the centralization of pure gas systems. Analysis laboratory use Gas chromatography

### APPLICATIONS

Pure gas ramp, technical alimentary with purge

### CONNECTIONS

Inlet Frontal 21,7x14" O 20x 14"sin.

### TECHNICAL FEATURES

#### PERFORMANCE

Gas Oxidizing and combustible gases  
 Inlet pressure 230 Bar MAX  
 Operating temperature -15° C +60°C

#### MATERIALS

Shutter Nylon with brass pit  
 Valve seat Chromed brass - CW617N-UNI EN 12165  
 Collector Brass blocks  
 HP chromed copper tube

Angular support in brushed stainless steel

### CONNECTIONS

Inlet UNI 11144/2 (Oxidizing gas)  
 UNI 11144/1H (Oxidizing gas)  
 Outlet UNI 11144/2 (Oxidizing gas)  
 UNI 11144/1H (Oxidizing gas)

### DIMENSIONS

Dimension 9 x 16 mm (1 seat ramp)  
 9 x 16 mm (2 seat ramp)  
 9 x 16 mm (3 seat ramp)

### ACCESSORY DEVICES

HP hoses  
 Hose fittings

### SAFETY DEVICES

Single unit test  
 Purge valve with piped discharge  
 Non-return flow valve  
 Over pressure safety valve

### DOCUMENTATION

Conformity Declaration and Instruction of use



| code         | Description                             | outlet |
|--------------|---|--------|
| CO.300.13031 | 1 PLACE PURE GAS RAMP W/REDUC-PURGE     | UNI/2  |
| CO.300.13032 | 2 PLACE PURE GAS RAMP W/REDUC-PURGE     | UNI/2  |
| CO.300.13033 | 3 PLACE PURE GAS RAMP WITH REPAIR/PURGE | UNI/2  |
| CO.300.13042 | 2 PLACE PURE GAS RAMP WITH RID/PURGE CO | UNI/2  |
| CO.300.13043 | 3 PLACE PURE GAS RAMP WITH RID/PURGE CO | UNI/2  |



PURE ALIMENTARY OR TECHNICAL GAS RAMP WITH PURGE AND DIRECT INPUT CONNECTIONS FOR ¼ G COIL – 6  
 Performances mode

### PERFORMANCE

#### PERFORMANCE

Gas Oxidizing and combustible gases  
 Inlet pressure 230 Bar MAX  
 Operating temperature -15° C +60°C

#### MATERIALS

Shutter Nylon with brass pit  
 Valve seat Chromed brass - CW617N-UNI EN 12165  
 HP chromed copper tube

POSSIBILITY OF APPLICATION OF PRESSURE SWITCH WITH DUCTABLE PURGE.

| code          | Description  |
|---------------|--|
| CO.300.13032A | 2 PLACE PURE GAS RAMP W/PURGE FRONT OPEN. PRESS SWITCH |

## VALVOLE PER RAMPA E PANNELLO



10470



20702



### TECHNICAL FEATURES

#### PERFORMANCE

Gas Oxidizing and combustible gases  
 Inlet pressure 230 Bar MAX  
 Operating temperature -15° C +60°C

#### MATERIALS

Shutter Nylon with brass pit  
 Valve seat Chromed brass - CW617N-UNI EN 12165  
 Collector Brass blocks  
 HP chromed copper tube  
 Angular support Brushed stainless steel

#### CONNECTIONS

Inlet UNI 11144/2 (Oxidizing gas)  
 UNI 11144/1H (Oxidizing gas)  
 Outlet UNI 11144/2 (Oxidizing gas)  
 UNI 11144/1H (Oxidizing gas)

#### DIMENSIONS

Dimension 9 x 16 mm (1 seat ramp)  
 9 x 16 mm (2 seat ramp)  
 9 x 16 mm (3 seat ramp)

#### ACCESSORY DEVICES

HP hoses  
 Hose fittings

#### SAFETY DEVICES

Single unit test  
 Purge valve with piped discharge  
 Non-return flow valve  
 Over pressure safety valve

#### DOCUMENTATION

Conformity Declaration and Instruction of use

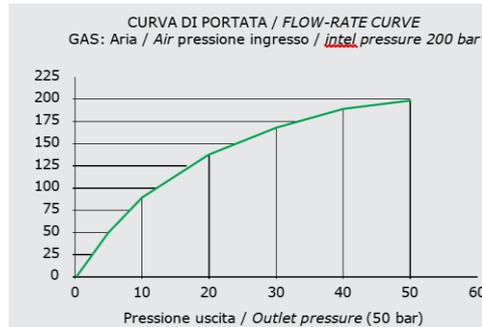
| code          | Description  | Inlet      | outlet     | Gas  |
|---------------|--|------------|------------|------|
| VI.208.10470  | VAL.E3000 G.21.7-14"C2H2UNI W/VAL.N/RIT.           | UNI 2      | UNI 7S     | C2H2 |
| VI.236.20537  | VAL FUTURA 21.7X14 O2 DECOMP WITHOUT NON-RET. VAL. | 21,7X14    |            | O2   |
| VI.322.20702  | VAL.FUTURA M10X1.5 21.7X14+21.7X14 QUAD            | UNI 1144/2 | UNI 1144/2 | O2   |
| VI.322.20702C | VAL.FUTURA M10X1.5 24.32-24.32 DIN10AZO            | DIN10      | DIN10      | N2   |

# TECHNICAL GAS DECOMPRESSION PANELS

Series DQD



Decompression panels for centralised technical gas and laser systems.



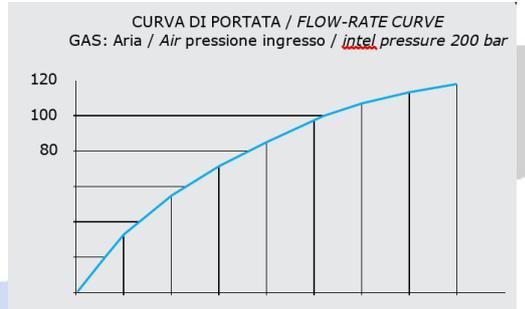
## TECHNICAL FEATURES

### PERFORMANCE

|                       |   |
|-----------------------|---|
| Gas                   | O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , Ar/Mix  |
| Inlet pressure        | 230 bar   |
| Outlet pressure       | 15 bar - Adjustable<br>50 bar - Adjustable  |
| Operating temperature | -15° C +60° C   |
| Pressure reducer      | See tab.  |
| Techniques: reducers  | RI.140.12800 x p.u. 15 bar<br>RI.140.12900 x p.u. 50 bar<br>RI.140.12811 x p.u. 1,5 bar Acetylene |
| Shut off valve        | FUTURA valve<br>with non-return valve   |

### CONNECTIONS

|        |                    |
|--------|--------------------|
| Inlet  | UNI -NF            |
| Outlet | Ball valve 1/2" F. |



### DIMENSIONS AND WEIGHT

|            |            |
|------------|------------|
| Dimensions | 42x27x20cm |
| Weight     | 9 Kg       |

### SAFETY DEVICES

- Over pressure valve for oxygen
- Over pressure valve for hydrogen
- Over pressure valve for acetylene
- Single unit test



| code     | Description   | Inlet              | max outlet pressure | flow capacity | Gas                           |
|----------|---|--------------------|---------------------|---------------|-------------------------------|
| DQD1001  | OPEN DECOMP. OXYGEN REGULATOR 15 BAR FLOW 120 M3/H        | 21,7 14 FIL W M.DX | 15 Bar              | 120,0         | O <sub>2</sub>                |
| DQD1001A | OPEN DECOMP. PANEL VARIOUS GASES 50MC FLOW 50 M3/H 1 RED. | 21,7 14 FIL W M.DX | 15 Bar              | 108,0         |                               |
| DQD1011  | DECOMPRESSION PANEL 50 BAR OPEN FLOW 200 M3/H             | 21,7 14 FIL W M.DX | 15 Bar              | 205,0         |                               |
| DQD1021  | OPEN DECOMP. PANEL ACETYLENE REG1.5 B                     | G 5/8" F.SX        | 1,5 Bar             | 16,0          | C <sub>2</sub> H <sub>2</sub> |
| DQD1031  | HYDROGEN OPEN DECOMP. CONTROL REG15 B                     | 21,7 14 FIL W M.DX | 15 Bar              | 480,0         | H <sub>2</sub>                |

| code     | Description   | Inlet              | outlet     | flow capacity        | Gas                           |
|----------|---|--------------------|------------|----------------------|-------------------------------|
| DVSL0202 | O <sub>2</sub> SAFETY VALVE 1/2"M/F RIGHT LINE              | 21,7 14 FIL W M.DX | 1/2" f. Dx | 12m <sup>3</sup> /h  | O <sub>2</sub>                |
| DVSL0207 | SAFETY VALVE H <sub>2</sub> 1/2"M/F RIGHT LINE              | 21,7 14 FIL W M.DX | 1/2" f. Sx | 48m <sup>3</sup> /h  | H <sub>2</sub>                |
| DVSL0212 | SAFETY VALVE C <sub>2</sub> H <sub>2</sub> 1/2"M/F LEFT LIN | 21,7 14 FIL W M.DX | 1/2" f. Sx | 15 m <sup>3</sup> /h | C <sub>2</sub> H <sub>2</sub> |

# DECOMPRESSION PANELS FOR TECHNICAL GAS

Serie DQD



## APPLICATIONS

Decompression panels for centralized technical pure gas and laser systems.

## TECHNICAL FEATURES

### PERFORMANCE

|                       |  |
|-----------------------|--|
| Gas                   | O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , Ar/Mix |
| Inlet pressure        | 230 bar  |
| Outlet pressure       | 15 bar – adjustable<br>50 bar - adjustable                 |
| Operating temperature | -15° C +60°C   |
| Pressure reducer      | See tab.   |
| tecniche Riduttori:   | RI.140.12800 x p.u. 15 bar                                 |
|                       | RI.140.12900 x p.u. 50 bar                                 |
|                       | RI.140.12811 x p.u. 1,5 bar Acetylene                      |
| Shut off valve        | FUTURA valve<br>with non-return valve                      |

### CONNECTIONS

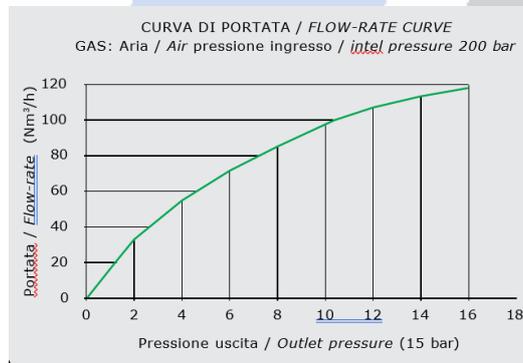
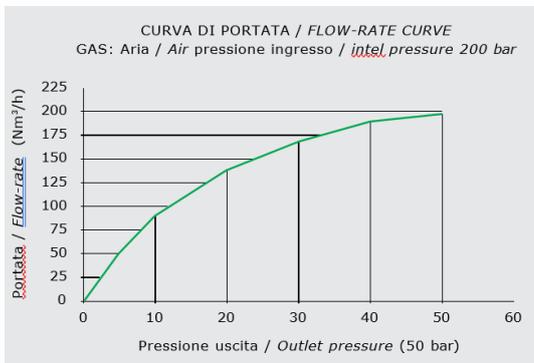
Inlet  
Outlet

UNI -NF  
Ball valve 1/2" F.

## SAFETY DEVICES

Over pressure valve for oxygen  
Over pressure valve for hydrogen  
Over pressure valve for acetylene  
Single unit test

## PRE-HEATER CONNECTION SET-UP



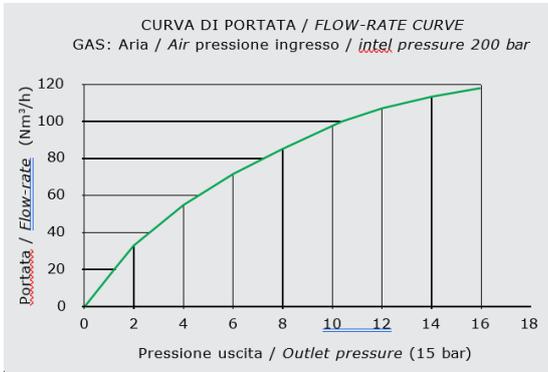
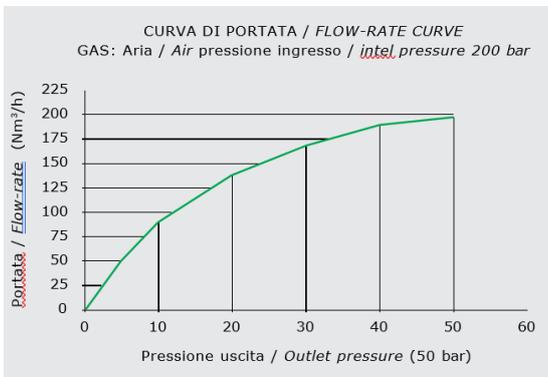
| code        | Description  | Inlet              | Max inlet pressure | max outlet pressure | flow capacity | Gas            |
|-------------|--|--------------------|--------------------|---------------------|---------------|----------------|
| DQD1000     | OXYGEN DECOMPRESSION PANEL REG15 BAR<br>FLOW 120 M3/H      | 21,7 14 FIL W M.DX | 230 Bar            | 15Bar               | 108,0         | O <sub>2</sub> |
| DQD1000P    | PURE GAS DECOMPRESSION PANEL REG15<br>BAR FLOW 120 M3/H    | 21,7 14 FIL W M.DX | 230 Bar            | 15Bar               | 125,0         |                |
| DQD1010     | OXYGEN DECOMPRESSION PANEL REG50 BAR<br>FLOW 200 M3/H      | 21,7 14 FIL W M.DX | 230 Bar            | 50Bar               | 205,0         | O <sub>2</sub> |
| DQD1020     | ACETYLEN DECOMPRESSION PANEL REG1<br>BAR FLOW 16 M3/H      | G 5/8" F.SX        | 25 Bar             | 1,5 Bar             | 16,0          |                |
| DQD1025     | LPG DECOMPRESSION PANEL REG4 BAR<br>FLOW RA                | 21,7 14 FIL W M.DX | 230 Bar            | 5Bar                | 16,0          |                |
| DQD1030     | HYDROGEN DECOMPRESSION PANEL REG15<br>BA CAPACITY 480 M3/H | 20,14 FIL W M.DX   | 230 Bar            | 15Bar               | 480,0         | H <sub>2</sub> |
| DQD-IMP1000 | DECOMP. PANEL OXYGEN IMPER1000 50 BAR                      |                    |                    |                     |               | O <sub>2</sub> |

# TECHNICAL AND PURE GAS DECOMPRESSION PANELS WITH AUTOMATIC EXCHANGE AND MANUAL RESETTING 100 M<sup>3</sup>H

## Series DQD



Manual exchange panel for technical gas.



## APPLICATIONS

Quadri di decompressione per impianti centralizzati gas tecnici puri e laseranti

## TECHNICAL FEATURES

### PERFORMANCE

|                       |  |
|-----------------------|--|
| Gas                   | O <sub>2</sub> -N <sub>2</sub> -Ar-air               |
| Inlet pressure        | 230 Bar MAX  |
| Outlet pressure       | Adjustable from 0/15 Bar<br>Adjustable from 0/50 Bar |
| Flow rate             | See tab.   |
| Operating temperature | -20° C +60°C   |

### MATERIALS

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Body                              | Chromed brass                     |
| Bell                              | Chromed brass CW617N-UNI EN 12165 |
| Piston (for reducing to 50 bar)   | Brass                             |
| Membran (for reduction to 15 bar) | Teflon                            |
| Fittings                          | Chromed                           |

### GAUGES

|                |   |
|----------------|---|
| Full scale     | HP 0-315 Bar<br>LP 0-25 Bar<br>LP 0-100 Bar |
| Accuracy class | 2.5   |
| Diameter       | 63 mm                                       |
| Fitting        | 1/4" G.C                                    |

### CONNECTIONS

|        |                               |
|--------|-------------------------------|
| Inlet  | UNI 11144/2 (O <sub>2</sub> ) |
| Outlet | Ball valve 1/2" F.            |

### DIMENSIONS AND WEIGHT

|            |         |
|------------|---------|
| Dimensions | 635X230 |
| Weight     | 15 Kg   |

### ACCESSORY DEVICES

HP hoses  
Hose fittings

### SAFETY DEVICES

Over pressure safety valve  
Sintered filter  
Bronze filter in the anti-impurity inlet connection  
Anti-unscrewing in the adjustment lever  
Single unit test

### ACCESSORIES OF THE SERIES

Pressure switches or pressure transducers set-up  
PRE-HEATER

### DOCUMENTAZIONE

Conformity Declaration and Instruction of use

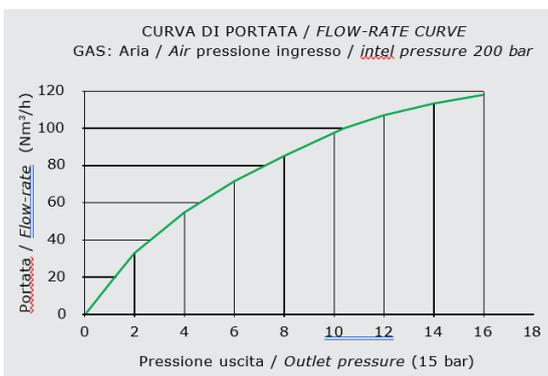
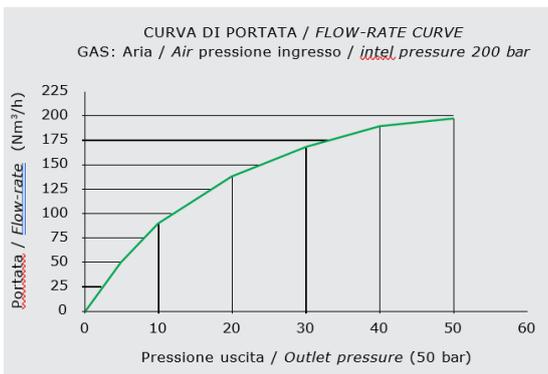
| code    | Description   | Inlet | Max inlet pressure | max outlet pressure | flow capacity |
|---------|---|-------|--------------------|---------------------|---------------|
| DOPM310 | DECOMP SC/AUTOM REPR/MAN REG15BAR CAPACITY 120 M3/H | UNI 2 | 230 Bar            | 15 Bar              | 120,0         |
| DOPM311 | DECOMP SC/AUTOM REPR/MAN REG50BAR CAPACITY 200 M3/H | UNI 2 | 230 Bar            | 5Bar                | 200,0         |

# TECHNICAL AND PURE GAS DECOMPRESSION PANELS WITH AUTOMATIC EXCHANGE AND MANUAL RESETTING 50M<sup>3</sup>/H

## Series DQD



Manual exchange panel for technical gases.



| code      | Description  | Inlet | Max inlet pressure | max outlet pressure | flow capacity |
|-----------|--|-------|--------------------|---------------------|---------------|
| DOPM10050 | DECOMP SC/AUTOM RIAR/MAN REG15BAR CAPACITY 50 M3/H | UNI 2 | 230 BAR            | 15,0                | 50,0          |
| DOPM10051 | DECOMP SC/AUTOM RIAR/MAN REG50BAR CAPACITY 50 M3/H | UNI 2 | 230 BAR            | 50,0                | 200,0         |

Flow curves of Imper 15 bar and 50 bar.

## APPLICATIONS

Decompression panels for centralized technical and pure gas systems

## TECHNICAL FEATURES

### PERFORMANCE

|                       |  |
|-----------------------|--|
| Gas                   | O <sub>2</sub> -N <sub>2</sub> -Ar-Air     |
| Inlet pressure        | 230 Bar MAX                                |
| Outlet pressure       | Adjustable 0/15 Bar<br>Adjustable 0/50 Bar |
| Flow rate             | See tab.                                   |
| Operating temperature | -20° C +60° C                              |

## MATERIALS

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Body                               | Chromed brass                     |
| Bell                               | Chromed brass CW617N-UNI EN 12165 |
| Piston (for reducing to 50 bar)    | Brass                             |
| Membrane (for reduction to 15 bar) | Teflon                            |
| Fittings                           | Chromed                           |

## GAUGES

|                |   |
|----------------|---|
| Full scale     | HP 0-315 Bar<br>LP 0-25 Bar<br>LP 0-100 Bar |
| Accuracy class | 2.5   |
| Diameter       | 63 mm                                       |
| Fitting        | 1/4" G.C                                    |

## CONNECTIONS

|        |                               |
|--------|-------------------------------|
| Inlet  | UNI 11144/2 (O <sub>2</sub> ) |
| Outlet | Ball valve 1/2" F.            |

## DIMENSIONS AND WEIGHT

|            |           |
|------------|-----------|
| Weight     | 15 Kg     |
| Dimensions | 635x230mm |

## ACCESSORY DEVICES

HP hoses  
Hose fittings

## SAFETY DEVICES

Over pressure safety valve  
Sintered filter  
Bronze filter in the anti-impurity inlet connection  
Single unit test

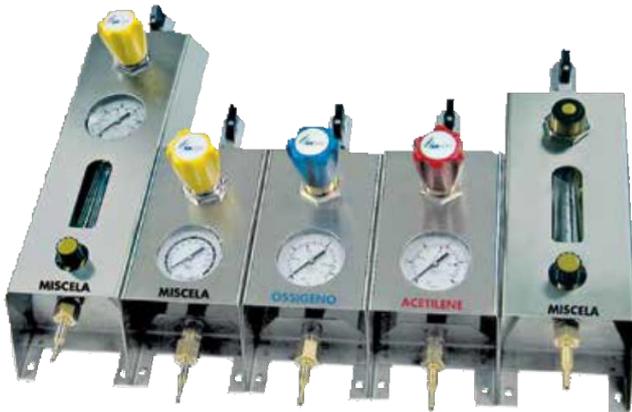
## ACCESSORIES OF THE SERIES

Pressure switches or pressure transducers set-up  
PRE-HEATER

## DOCUMENTATION

Conformity Declaration and Instruction of use

### Serie DPU



Modular use stations for medium-pressure centralized systems

### APPLICATION

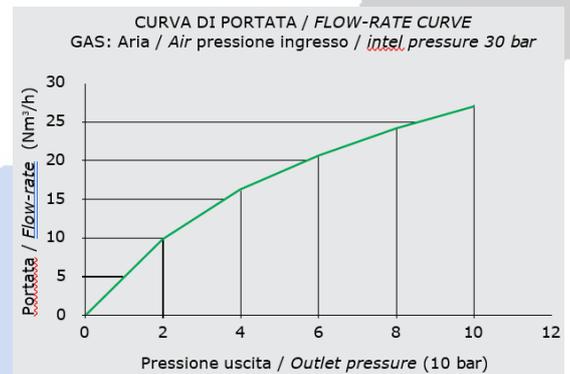
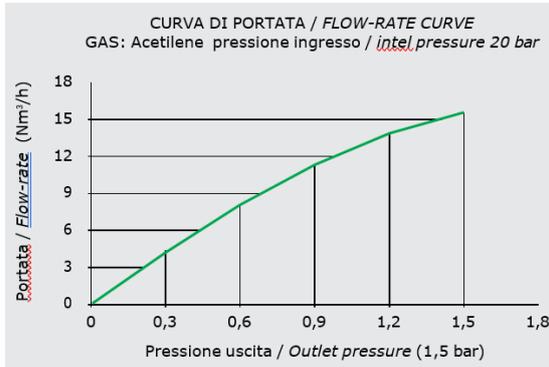
Distribution systems and welding equipment for technical gases

### MATERIAL

Structure brushed stainless steel  
 Body Hot pressed and treated brass  
 Brass bell Black chromed

### TECHNICAL FEATURES

Membrane Ø 50  
 Ball valve inlet 3/8"  
 Filter Stainless Steel  
 Pressure gauge Ø63 compliant with ISO EN2503 standards  
 Outlet nut and hose holder for Ø 6/8 mm hose.  
 Operating temperature -15° +60° C  
 Single test unit  
 Nb: We recommend using the over pressure safety valve for the use of oxygen and combustible gases.



| code         | Description                                 | Inlet | Max inlet pressure | max outlet pressure | flow capacity | Gas      |
|--------------|---|-------|--------------------|---------------------|---------------|----------|
| CO.500.13500 | VARIOUS GAS P.U.10BAR SOCKET PLACE          | UNI 2 | 30 Bar             | 0-10Bar             | 30m³h         | GAS VARI |
| CO.500.13501 | PLACE TAKEN P.U.1.5 ACETYLENE               | UNI 2 | 2,5 Bar            | 0-1,5 Bar           | 4m³h          | C2H2     |
| CO.500.13507 | LEFT P.U.1.5 HYDROGEN SOCKET PLACE          | UNI 2 | 30 Bar             | 1,5 Bar             | 100m³h        | H2       |
| CO.500.13505 | P.U.1.5 OXYGEN SOCKET PLACE                 | UNI 2 | 30 Bar             | 0-1,5 Bar           | 25m³h         | O2       |
| CO.500.13506 | POINT 4 LPG SOCKET PLACE                    | UNI 2 | 6 Bar              | 0-4 Bar             | 6m³h          | gpl      |
| CO.500.13502 | SOCKET PLACE WITH HAND FLOW METER           | UNI 2 | 30 Bar             | 0-4 Bar             | 0-30L/m       |          |
| CO.500.13503 | SOCKET PLACE W/FLOWMETER 0-30 LT.MIN        | UNI 2 | 30 Bar             | 0-4 Bar             | 0-30L/m       |          |
| CO.500.13504 | SOCKET PLACE W/PRESSURE GAUGE AND FLOWMETER | UNI 2 | 30 Bar             | 0-4 Bar             | 0-30L/m       |          |

| code         | Description                 | Inlet   | outlet  | Max inlet pressure | max outlet pressure | flow capacity | Gas  |
|--------------|-----------------------------|---------|---------|--------------------|---------------------|---------------|------|
| RI.200.13200 | SAFETY VALVE VARIOUS O2 GAS | UNI 2   | 3/8" Dx | 230Bar             | 0-10Bar             | 45 m3/h       | O2   |
| RI.200.13201 | C2H2 SAFETY VALVE           | 3/8" Dx | 3/8" Dx | 230Bar             | 1,5 Bar             | 1m3/h         | C2H2 |
| RI.200.13202 | SAFETY VALVE H2             | 3/8" Dx | 3/8" Dx | 230Bar             | 0-10Bar             | 19m3/h        | H2   |



**Series DPU**



**DESCRIPTION:**

Large flow places for centralized systems with high output.

GPMS Pu reducer outlet 0/15 bar max.

GPPS Pu reducer outlet 0/50 bar max.

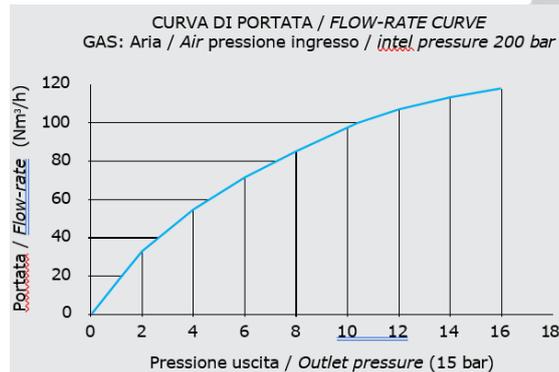
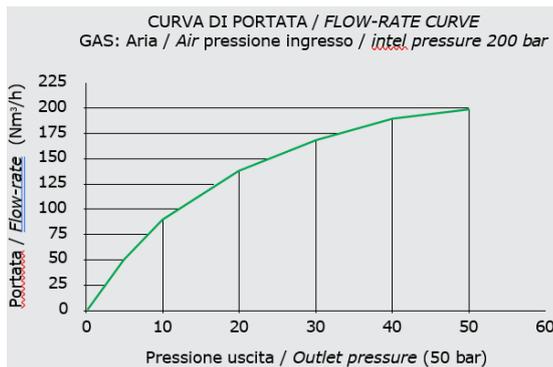
1/2" inlet ball valve f. right complete with socket weld connection for Ø 22 mm pipe.

Outlet connection 3/8" m. right complete with socket weld connection for Ø 8/10 mm pipe.

Stainless steel structure

Operating temperature -15° +60° C

Single unit test



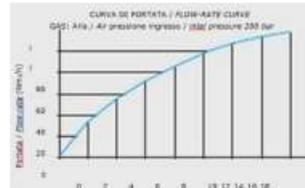
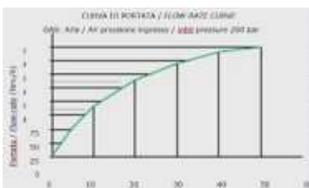
| code    | Description                              | Inlet | outlet  | Max inlet pressure | max outlet pressure | flow capacity | Size    |
|---------|--|-------|---------|--------------------|---------------------|---------------|---------|
| DPU0020 | P.U. SOCKET PLACE 15 BAR CAPACITY 115 M3 | UNI 2 | 3/8" Dx | 30 Bar             | 0-15 Bar            | 120,0         | 22x14x9 |
| DPU0021 | SOCKET PLACE P.U.50 BAR CAPACITY 115 M3/ | UNI 2 | 3/8" Dx | 7Bar               | 0-5Bar              | 200,0         | 22x14x9 |

## II STAGE IMPER REDUCER FOR LARGE FLOW RATE



### Serie RI.145

The series of II stage IMPER reducers are for large flow rates, they allow pressure stability for centralized and laser systems.



### REFERENCE TECHNICAL STANDARDS

Construction Regulation EN ISO 2503

### APPLICATIONS

Large flow rates with strong outputs

### TECHNICAL FEATURES

#### PERFORMANCE

|                       |  |
|-----------------------|--|
| Gas                   | O2-N2-Aria   |
| Inlet pressure        | 30 bar for 15 bar reducer<br>70 bar for 50 bar reducer |
| Outlet pressure       | Adjustable 0/15 bar                                    |
| Flow rate             | See tab.   |
| Operating temperature | -15° +60°  |

#### MATERIALS

|                            |  |
|----------------------------|--|
| Body                       | Brass - CW617N-UNI EN 12165                |
| Shutter                    | HP valve with PTFE seat                    |
| Valve bell                 | Painted Aluminium                          |
| Piston (for 50 bar reduc.) | Brass - CW617N-UNI EN 12165                |
| Diaframma                  | Neoprene                                   |
| Diameter                   | 50 x rid. 15 bar                           |
| Filter                     | bronze, placed inside the inlet connection |

#### GAUGES

GAUGES ISO 5171 diam. 63 mm class 2.5

LP gauge

Full scale

- 0/25 bar for 25bar reducer
- 0/70 bar for 50bar reducer

#### CONNECTIONS

|        |               |
|--------|---------------|
| Inlet  | 1/2" f. right |
| Outlet | 1/2" f. right |

Swivel reducer connection with o-ring seal

#### SAFETY

Single unit test

| code         | Description                            | Inlet | outlet    | Max inlet pressure | max outlet pressure | flow capacity |
|--------------|--|-------|-----------|--------------------|---------------------|---------------|
| RI.145.12920 | IMPER G.P. REDUCER IISTAGE AT MEM15BAR | UNI 2 | 1/2" f.Dx | 230Bar             | 0-15                | 115,0         |
| RI.145.12921 | IMPER G.P. REDUCER IISTAGE AT MEM50BAR | UNI 2 | 1/2" f.Dx | 230Bar             | 0-50                | 155,0         |

## Valve nipple 21,7-1/4" male



| code | Description                              |
|------|--|
| 5148 | CONN. 21.7-1/14"MALE - 21.7-1/14"MALE    |
| 5149 | CONN. 21.7-1/14"FEM. - G1/4 FEM. NIPLOXY |

## SWIVEL JOINTS

### Series RNIPLOSSIGENO



Swivel joint for various gas ramp to ramp connection

### Series RNIPLOIDROGENO



Swivel joint for various gas ramp to ramp connection for Hydrogen

### Series RNIPLOACETILENE



Swivel joint for various gas ramp to ramp connection for Acetylene

| code            | Description  | Inlet       | outlet          | Gas     |
|-----------------|--|-------------|-----------------|---------|
| RNIPLOSSIGENO   | SWIVEL CONN.VARIOUS GAS 21.7FX21.7F RIGHT FOR RAMP | W21,7 X1/4" | W21,7 X1/4"     | O2 VARI |
| RNIPLOIDROGENO  | SWIVEL CONN. H2 20 14F. X 20 14F. LEFT FOR RAMP    | W20x1/4 LH  | W20x1/4 LH      | H2      |
| RNIPLOACETILENE | SWIVEL CONN. ACET 5/8"M.X5/8"M.LEFT NF FOR RAMP    | 5/8" M      | 5/8" M Sinistro |         |

## HP FILTER

| code         | Description                | Max inlet pressure |
|--------------|----------------------------|--------------------|
| RI.150.12999 | HIGH PRESSURE FILTER 50 MC | 230Bar             |

## 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 recognised.

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 regularised.

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 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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