

MULTIPLE PRESSURE REDUCER PANELS, WR model, with ALARM

The WR model pressure reducer and multiple gas pressure control panel boards, are conceived and realized according with MDD 93/42/EEC and related norms ISO 7396-1 and ISO 10524-1.



Each technical or medical gas is treated with one double 2nd stage pressure reducer connected by a by-pass system. Downstream the reducer it is installed a removable area group with one pressure gauge, one pressure switch (or transducer on request) and one specific emergency gas coded outlet (NIST, UNI 9507, AFNOR).

The Vacuum network is intercepted and controlled through a ball valve complete with one vacuum gauge and one vacuum switch.

According with the panel board codes, the vacuum shut-off group is realized with 3/4" (diam. mm 22) or 1" (diam. mm 28) or 1" 1/4" (diam. mm 35) valve.

The WR panel boards are available in various configurations according with the quantity of pressure reducers, the presence of the vacuum valve and the type of panel boards mounting (either flush or surface mounting).

The multiple WR panel boards, in the standard configuration, are conceived for pre-defined gases. However it is possible to have different configurations, by indicating the medical gases to treat.

Each line of WR panel is equipped by cooper pipe (inlet and output) to connecting plant.

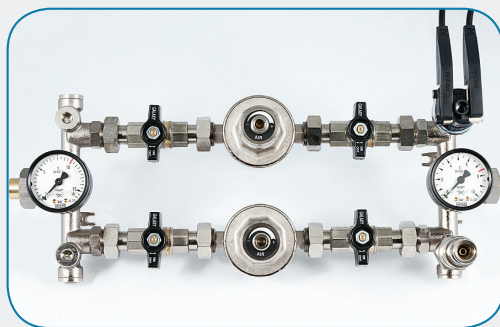
DIMENSIONS AND TREATED GAS IN THE STANDARD CONFIGURATION (flush mounting and surface mounting versions)

MOD.	SPECIFIC	STANDARD CONFIGURAZION	WIDTH mm A	HEIGHT mm B	DEPTH mm C	RECESSED * DEPTH mm D
WR 1	1 gas	O ₂ - N ₂ O - M.A - Air for Tools - CO ₂	610	540	140	90
WR 2	1 gas + V	O ₂ / V	610	540	140	90
WR 3	2 gas + V	O ₂ / M.A. / V	610	720	140	90
	2 gas	O ₂ / M.A.				
WR 4	3 gas + V	O ₂ / N ₂ O / M.A. / V	610	800	140	90
	3 gas	O ₂ / N ₂ O / M.A.				
WR 5	4 gas + V	O ₂ / N ₂ O / M.A. / Air for Tools / V	610	1080	140	90
	4 gas	O ₂ / N ₂ O / A.C.M. / Air for Tools				
WR 6	5 gas + V	O ₂ / N ₂ O / A.C.M. / Air for Tools / CO ₂ / V	610	1260	140	90
	5 gas	O ₂ / N ₂ O / A.C.M. / A.C.S / CO ₂				

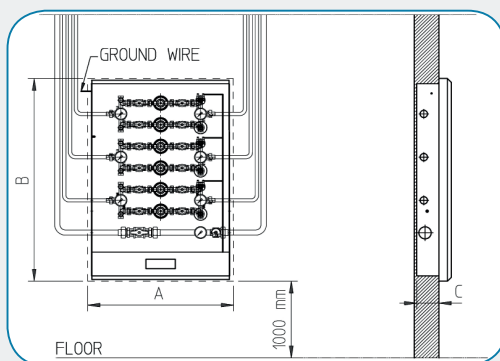
*Dimension valid only for the flush mounting version

WR series PRESSURE REDUCER PANEL BOARD WITH ALARM :

- A) White lacquered steel surface or flush mounting box composed by :
- B) 1 to 4 DOUBLE PRESSURE REDUCER groups with 2 pressure reducers connected in by-pass
Each pressure reducer group is constituted by :
- 1 x input removable fitting;
 - 1 x 0 – 16 bar pressure switch
 - 1 x 3 pieces connector with weld nipple diam. 14-1 mm
 - 2 x outputs with 3 pieces fitting for connection to the valves placed upstream the pressure reducers
 - 1 reservation for the installation of a supplementary supplying emergency outlet
 - 2 x 3/8" ball valves placed upstream the pressure reducers (1 each reducer)
 - 2 x pressure reducers per medical gas
- The pressure of the reducer can be set from 0 to 5 bar (28 cu.mt / hr load with 4 bar pressure, max 10% fall)
- 2 x 3/8" ball valves placed downstream the pressure reducers, acting as area valves
 - 1 x output removable fitting having :
 - 1 x 0 – 10 bar pressure gauge
 - 1 x 3 pieces fitting with weld nipple diam. 14-1 mm
 - 2 x outputs with 3 pieces fitting for the connection to the valves placed downstream the pressure reducers
 - 1 emergency supplying unit as per AFNOR S.90-116 or UNI 9507 or NIST types
 - 1 pre-calibrated pressure control device for H.P. e L.P. on secondary network acting at 4 bar pressure $\pm 20\%$
- C) 1 VACUUM GROUP constituted by :
- 1 vacuum ball valve (diameter depending on the version):
 - 1 block with vacuum gauge scale 0 / -1 bar and pre-calibrated vacuum switch for vacuum network low level set at - 440 mbar).
- D) 1 DOUBLE PRESSURE REDUCER GROUP AIR FOR TOOLS with 2 pressure reducers connected in by-pass.
The double group pressure reducers is composed by :
- 1 x input connector having :
 - 1 x 0 – 16 bar pressure switch
 - 1 x 3 pieces fitting with weld nipple diam. 14-1 mm
 - 2 x outlets with threaded nipple for the connection to the valves placed upstream the pressure reducers
 - 1 reservation for the installation of a supplementary supplying emergency unit
 - 1 x 3/8" ball valves placed upstream the reducers
 - 1 x 2 pressure reducers for 8 bar Air
- The pressure reducer can be set at 0 to 8 bar pressure (48 cu.mt/hr with 10% fall at 8 bar load)
- 2 x 3/8" ball valves placed downstream the pressure reducers, acting as area valves
 - 1 x output removable connector having:
 - 1 x 0 – 16 bar pressure switch
 - 1 x 3 pieces fitting with weld nipple diam. 14
 - 2 x supplying points with threaded nipple for the connection to the valves placed upstream the pressure reducers
 - 1 x emergency supplying unit realized according with NIST or UNI 9507 norms
 - 1 x pre-calibrated pressure control device for H.P. e L.P. secondary network set at 4 bar pressure $\pm 20\%$
- F) 1 frangible DOOR with 1 or 2 locks with emergency access and windows for the pressure gauges control.
- G) Alarm control system for medical gases and vacuum
Pre-wired connections to pressure-switches



SURFACE MOUNT



FLUSH MOUNT

