

# Self-operated regulator

## Introduction

This Installation Guide provides instructions and safety information on pressure equipment so as to avoid any foreseeable risk during the use.

For further information refer to Types RP/10 Instruction Manual, n° 0101.

## P.E.D. Categories and Fluid Group

This product may be used as a gas pressure reducing equipment in the following Pressure Equipment Directive 97/23/EC categories

Product Size	Category	Fluid Group
DN 3/4" x 1"	I	1

## Specifications

### Body Sizes and End Connection Styles

DN 3/4" x 1" BSP

### ! WARNING !

#### Maximum Operating Inlet Pressure (1)

220 bar

#### Operating Outlet Set Pressure Ranges

0.5 ÷ 30 bar



#### Minimum/Maximum Allowable Temperature (TS)

(1)

See nameplate

(1) : The pressure/temperature limits in this Safe Use Guide and any applicable standard or code limitation should not be exceeded.

## Marking

 		APPARECCHIO TIPO / DEVICE TYPE Note 1	
MATRICOLA SERIAL Nr.		DN1	
ANNO YEAR	Note 2	DN2	
NORME ARMONIZ. HARMONIZED STD.	EN	W3	bar
CLASSE DI PERICITA' LEAKAGE CLASS		W30	bar
CLASSE FUNZIONALE FUNCTIONAL CLASS	C1	W3L	bar
FLUIDO GRUPPO FLUID GROUP	1	PS	bar
TS	Note 3	PS body	220 bar
		PS covers	30 bar
		PT	1.5 x PS bar

Note 1: RP/10

Note 2: See page header

Note 3: Class 1: -10/+60 °C



## Overpressure Protection

The recommended pressure limitations are stamped on the regulator nameplate.

Some type of overpressure protection is needed if the actual outlet pressure exceeds the maximum operating outlet pressure rating.

Overpressure protection should also be provided if the regulator inlet pressure is greater than the actual maximum operating set pressure rating.

Regulator operation below the maximum pressure limitations does not preclude the possibility of damage from external sources or debris in the line.

The regulator should be inspected for damage after any overpressure condition.

## Transport and Handling

Established transport and handling procedures shall be followed to avoid any damage on the pressure containing parts by shocks or anomalous stresses.

Built-up pressure accessories (e.g. gauges) shall to be protected by shocks or anomalous stresses.

## Installation

### ! WARNING !

Only qualified personnel should install or service a regulator.

Regulators should be installed, operated, and maintained in accordance with international and applicable codes and regulations, and O.M.T. Tartarini instructions.

If the regulator vents fluid or a leak develops in the system, it indicates that service is required.

Failure to take the regulator out of service immediately may create a hazardous condition.

Personal injury, equipment damage, or leakage due to escaping fluid or bursting of pressure-containing parts may result if this regulator is over pressured or is installed where service conditions could exceed the limits given in the Specifications section, or where

**conditions exceed any ratings of the adjacent piping or piping connections.**

**To avoid such injury or damage, provide pressure-relieving or pressure-limiting devices (as required by the appropriate code, regulation, or standard) to prevent service conditions from exceeding limits.**

**Additionally, physical damage to the regulator could result in personal injury and property damage due to escaping fluid.**

**To avoid such injury and damage, install the regulator in a safe location.**

**Before installation, check shall be done if service conditions are consistent with use limitations.**

**All means for venting have to be provided in the assemblies where the pressure equipment are installed.**

**All means for draining have to be provided in the equipment installed before regulators & shut-off devices.**

Where this product is used :

- provide the cathodic protection and electrical isolation to avoid any corrosion and
- the gas shall be cleaned by proper filters/separators/scrubbers to avoid any technical & reasonable hazard of erosion or abrasion for pressure containing parts.

Pressure equipment in subject shall be installed in non-seismic area and hasn't to undergo fire and thunderbolt action.

Clean out all pipelines before installation of the regulator and check to be sure the regulator has not been damaged or has collected foreign material during shipping.

Apply pipe compound to the male pipe threads. Install the regulator in any position desired, unless otherwise specified, but be sure flow through the body is in the direction indicated by the arrow on the body.

Installation must be done avoiding anomalous stresses on the body and using suitable joint means according equipment dimensions and service conditions.

For a correct and safe use of the connections check also Instruction Manual and Bulletin before installation.

User has to check and carry out any protection suitable for assembly's specific environment.

**Note:** It is important that the regulator be installed so that the vent hole in the pneumatic case bell is unobstructed at all times.

For outdoor installations, the regulator should be located away from vehicular traffic and positioned so that water, ice, and other foreign materials cannot enter the pneumatic case through the vent.

Avoid placing the regulator beneath eaves or downspouts, and be sure it is above the probable snow level.

## Start-up

The regulator is factory set at approximately the pressure requested, so an initial adjustment may be required to give the desired results.

With proper installation completed and relief valves properly adjusted, slowly open the upstream and downstream line valves.

## Adjustment

To change the outlet pressure, use the adjusting built-in valves (pressure in/out in pneumatic case). Monitor the outlet pressure with a test gauge during the adjustment.

Tighten the valves to maintain the desired setting.

## Taking Out of Service (Shutdown)

### ! WARNING !

**To avoid personal injury resulting from sudden release of pressure, isolate the regulator from all pressure before attempting disassembly and release trapped pressure from the equipment and pressure line.**

**In case of disassembly of main pressure retaining parts for checks and maintenance procedures, external and internal tightness tests have to be done according applicable codes.**

## Checks and Maintenance

Regulator and its pressure accessories are subject to normal wear and must be inspected periodically and replaced as necessary.

The frequency of inspection/checks and replacement depends upon the severity of service conditions and upon applicable National or Industry codes, standards and regulations/recommendations.

Maintenance is possible by following proper procedures detailed in the Instruction Manual.

In accordance with applicable National or Industry codes, standards and regulations/recommendations, all hazards covered by specific tests after final assembling before applying the CE marking, shall be covered also after every subsequent reassembly at installation site, in order to ensure that the equipment will be safe throughout its intended life.

### **Commissioning / de-commissioning**

See Instruction Manual for proper operations.

Safety requirements are according taking out of service above information.

### **Spare parts**

See Instruction Manual for spare parts tracing.

Spare parts storage shall be done by proper procedures according also national standard/rules to avoid too much aging or any damage.

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