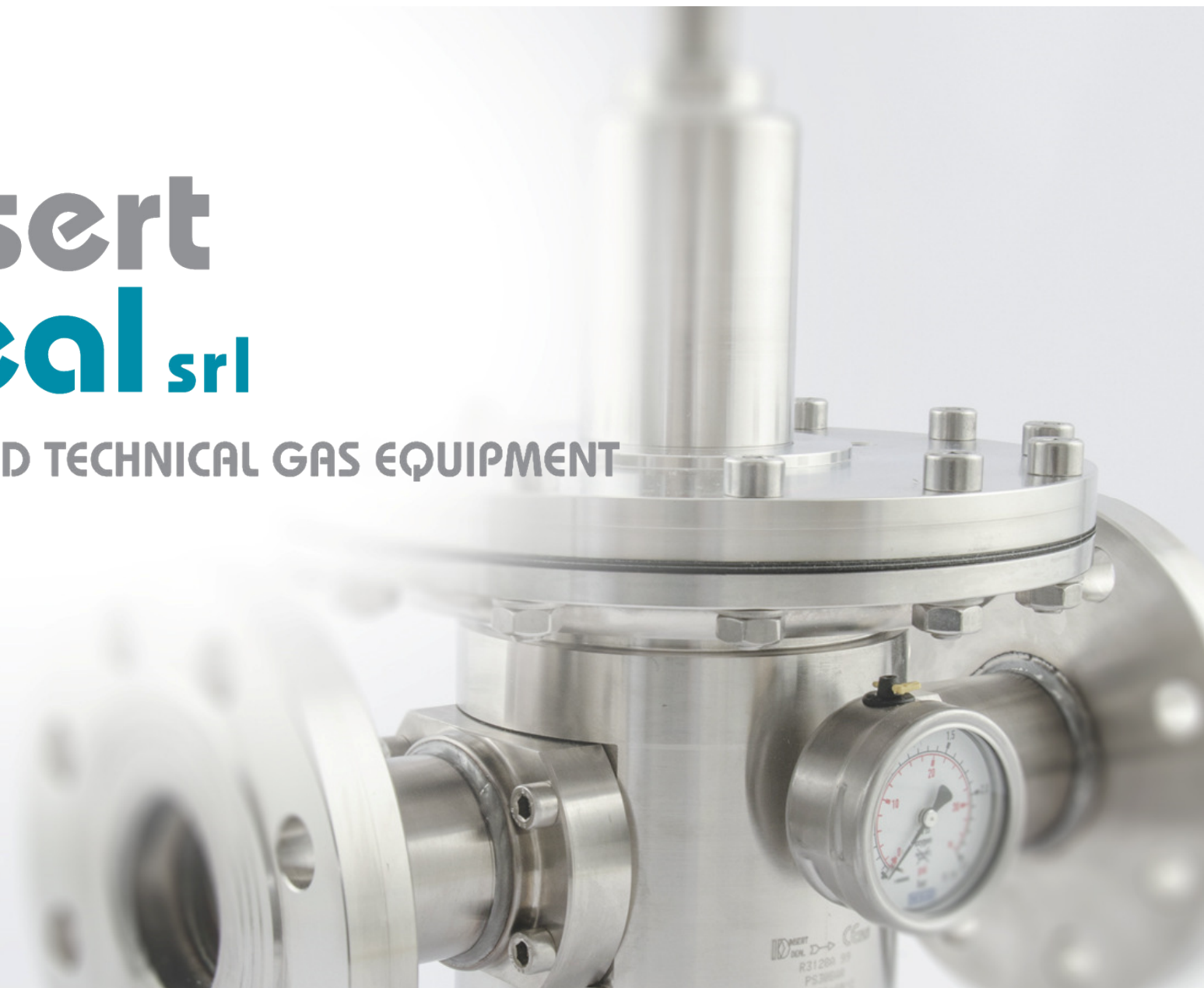




COMPRESSED AIR AND TECHNICAL GAS EQUIPMENT



# PRODUCTS OVERVIEW



**R**  
Regulators



**F**  
Filters



**FR**  
Filter-Regulators



**L**  
Lubricators



**VSF**  
Relief valves



**Decompression units  
and accessories**

# MATERIAL CHOICE

## Components

### ALUMINIUM (AW-2011)

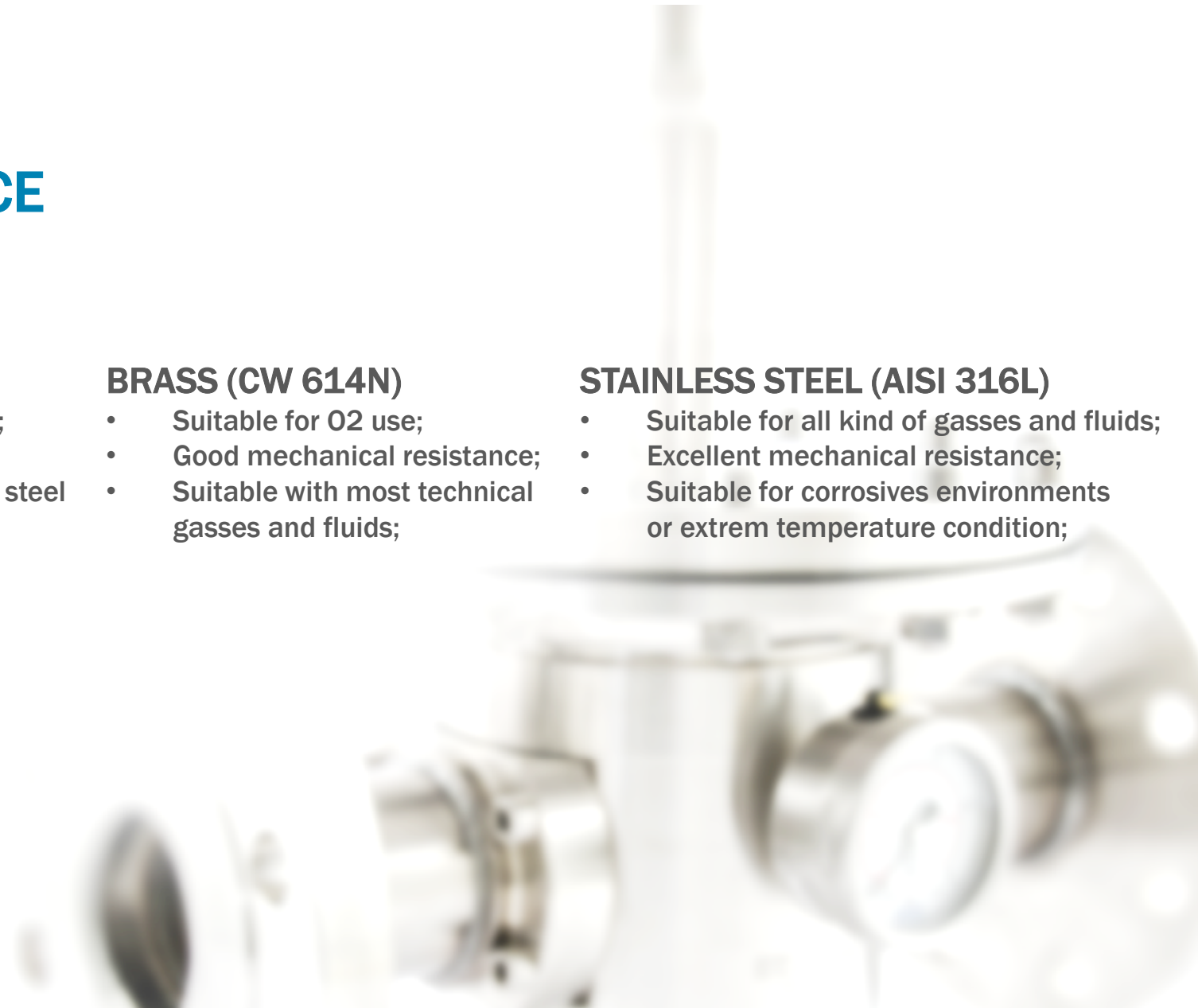
- Good mechanical resistance;
- Low weight;
- Good alternative to stainless steel or brass devices;
- Low prize;

### BRASS (CW 614N)

- Suitable for O2 use;
- Good mechanical resistance;
- Suitable with most technical gasses and fluids;

### STAINLESS STEEL (AISI 316L)

- Suitable for all kind of gasses and fluids;
- Excellent mechanical resistance;
- Suitable for corrosives environments or extrem temperature condition;



# MATERIAL CHOICE

## Gaskets

- EPDM (Etilene Propilene Diene Monomero) *FDA certificated*
- FPM - FKM (Fluorocarbonio -Viton)
- NBR (Nitrile Butadiene Rubber)
- FVMQ (Fluorosilicone)
- FFKM (Perfluorocarbonio -KALREZ<sup>®</sup>)



# PRESSURE CLASSIFICATION

High pressure  
I° Stage

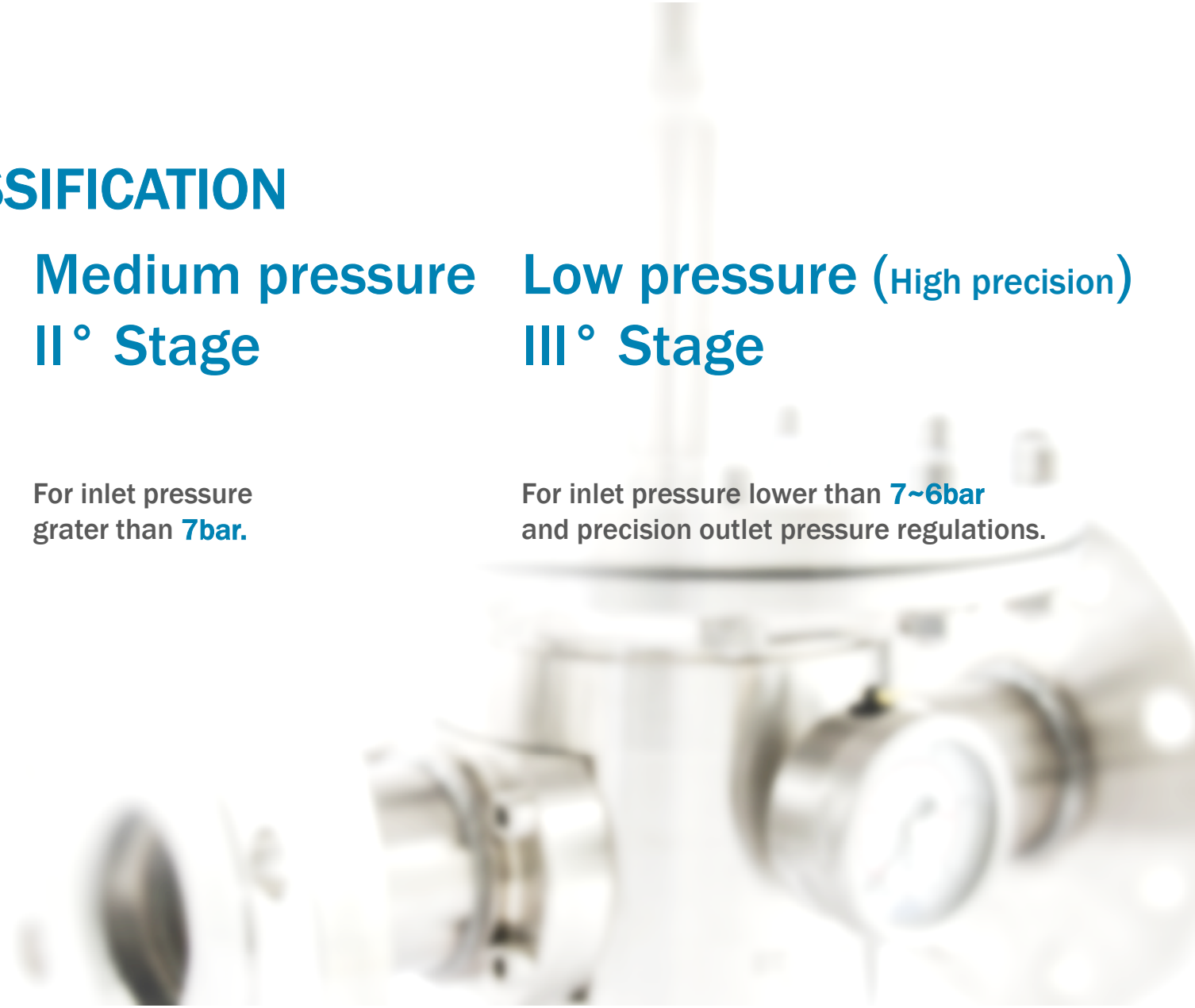
For inlet pressure greater than **80bar**.

Medium pressure  
II° Stage

For inlet pressure grater than **7bar**.

Low pressure (High precision)  
III° Stage

For inlet pressure lower than **7~6bar** and precision outlet pressure regulations.



# DIMENSION CHOICE

## CONSIDER:

- Flow rate requested;
- Pipe line dimension;
- Kv or Cv value indication;

## Our devices are available with connections:

- 1/8 "
- 1/4 "
- 3/8 "
- 1/2 "
- 3/4 "
- 1 "
- 1 " 1/4
- 1 " 1/2
- 2 "
- 3 "
- 4 "

DIN 32676 clamp

Threaded

Flanged EN1092-1, SO ANSI

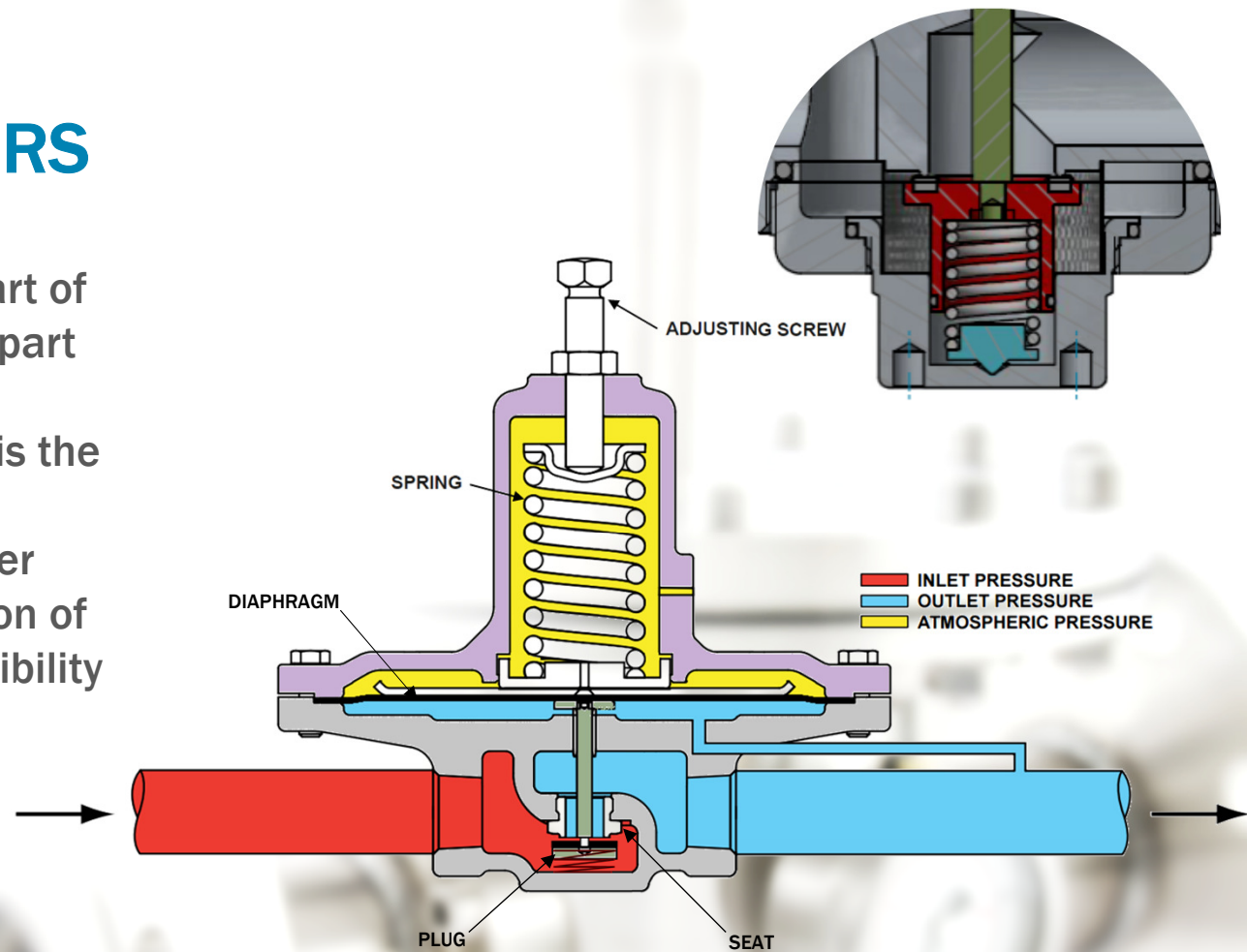
# CERTIFICATIONS

- ATEX 2014/34/EU
- PED directive 2014/68/EU
- EAC-EX TP TC 012/2011
- MOCA certification  
(Materials and Objects in Contact with Food)  
European Regulation CE n. 1935/2004



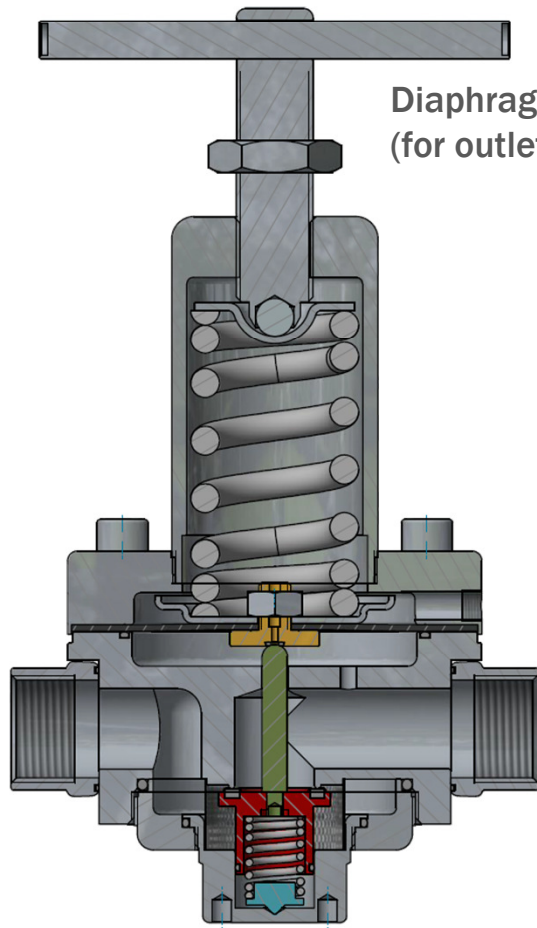
# PRESSURE REGULATORS

Inlet pressure acts on the bottom part of the plug; Outlet pressure act on top part of the plug and on the diaphragm. The signal for the regulator to open is the decrease of the outlet pressure. The sensing element may be a rubber diaphragm or a piston. The dimension of the sensing element affect the sensibility of the regulator.

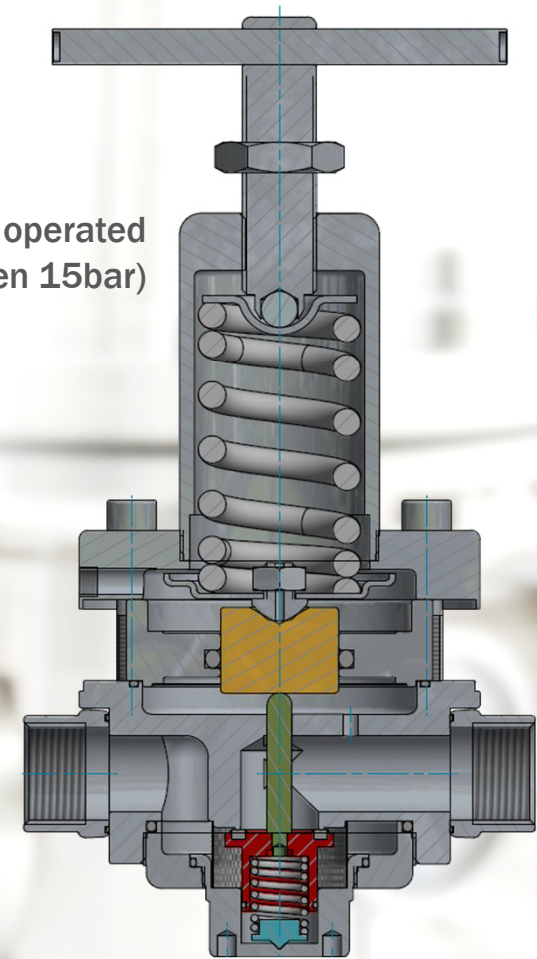




# PRESSURE REGULATORS



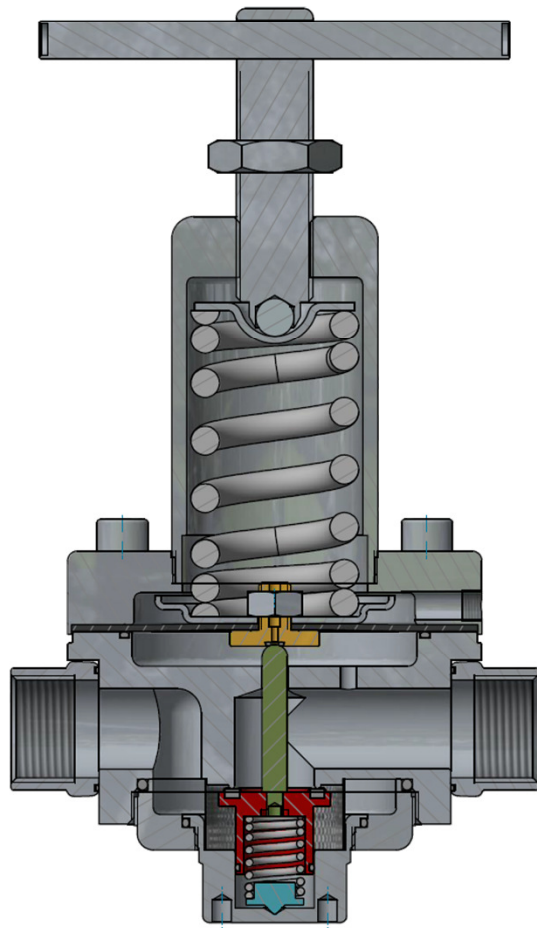
Diaphragm operated  
(for outlet pressure up to 15bar)



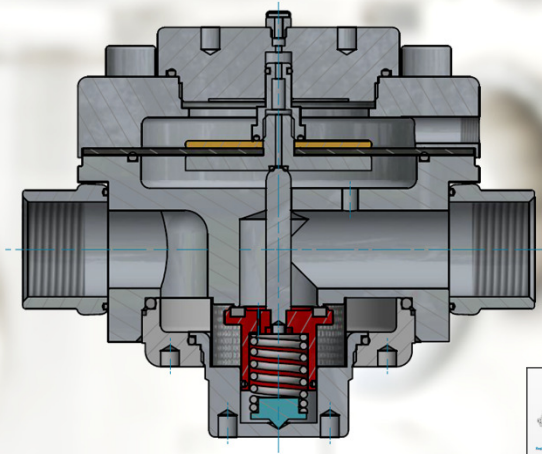
Piston operated  
(for outlet pressure greater than 15bar)



# PRESSURE REGULATORS



Spring loaded



Dome loaded

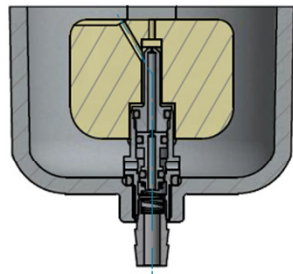


# FILTERS

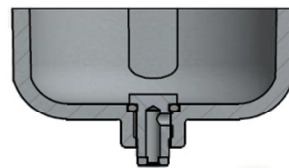
Insert Deal filters are available with different filtration rates:

- 5  $\mu\text{m}$
- 25  $\mu\text{m}$
- 50  $\mu\text{m}$
- Coalescing- 0,01  $\mu\text{m}$

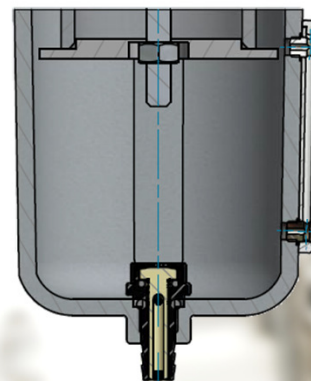
And different condensate drain systems:



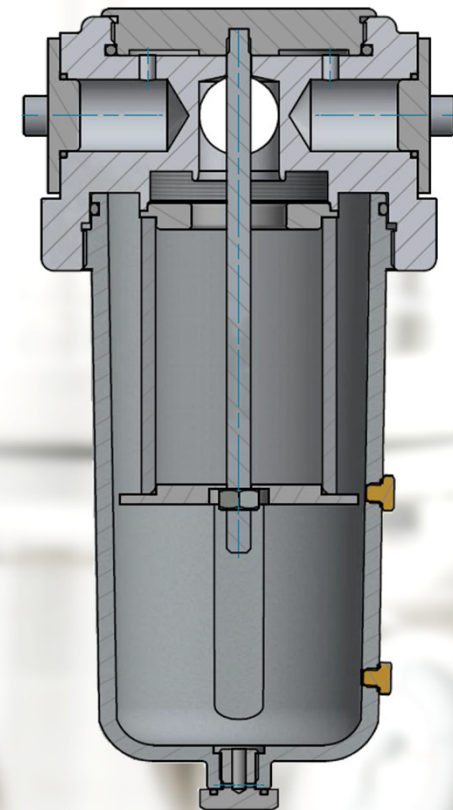
**SAI**  
Automatic drain



**SM**  
Manual drain



**SS**  
Semi-automatic drain



**CAP**  
No drain



# RELIEF VALVES

Relief valves (or back pressure regulators) keep the pressure under a pre-set value.

The working principle is the same of the safety valves.

Inlet pressure acts directly on the sensing element.

As pressure regulator, relief valves can be diaphragm/piston operated and spring operated or dome loaded.

