

# High Pressure First Stage Regulator

## Type 942HP



### Product Description

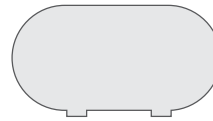
The 942HP series direct operated regulators are designed for high-pressure service and can be used on either on vapor or liquid applications.

High pressure regulators usually reduce tank pressure to an intermediate pressure for use by another regulator.

They are also used for Final stage service on particular application, as high pressure burners as well as other medium sized commercial industrial applications. Type 942HP regulator is an adjustable high pressure regulator with a wide range of outlet pressures. It is not equipped with a limited relief valve. Type 948HP is equipped with a limited relief valve. Both types are equipped with one or more threaded sides outlet normally plugged. That provides opening for inlet/outlet pressure gauges.

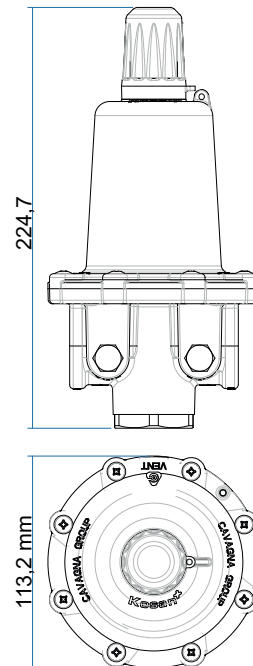
A balanced inlet pressure device available (X18 in Safety Devices & Accessoires Section).

### § Installation System



D-25 S-03  
D-28 S-04

### Dimensions



### Materials

Body: Aluminium / Painted  
Spring: Steel  
Diaphragm: Approved NBR

### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Propane L.P.G.</b>	0.5-2 / 0.5-3 / 1-3 bar from 10 to 50 PSI	from 100 to 250 kg/h from 3.600.000 to 12.000.000 BTU/h	X03 - X08 - X10 X11 - X18	-20 ÷ +50 °C	Table A: A01	Table G: G05-G07-G09 G14-G15-G16
					Table D: D05-D07-D08 D09-D14-D15	Table H: H06

## Automatic Changeover First Stage High Pressure Regulator

Domestic use

### Type 924



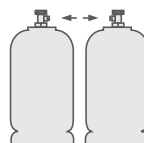
### Product Description

Type 924 is an automatic changeover designed to perform the function of a first-stage regulator as well. Type 924 is used in installations having 2 gas storage groups (service group and reserve group), each consisting of one or more cylinders. The Automatic Changeover is designed to guarantee a continuous supply of gas by automatically switching to and drawing gas from the reserve group when the service group is exhausted. Type 924 can be provided with an indicator that enables us to view the automating switching from the service group to the reserve group. The indicator color changes from green to red, when the service cylinder is exhausted. The rotation of the automatic changeover handle to the full reserve cylinder restores the green color on the indicator. Connection of the Type 924 changeover to the service group and the reverse group occurs using high-pressure hoses provided with fittings for attachment to the cylinder valve. Installation of Type 924 should always be completed by a second-stage regulator which further reduces the delivery pressure from the automatic changeover down to the operating pressure of the appliance. Type 924 is equipped with a mounting bracket as standard.

### Technical features

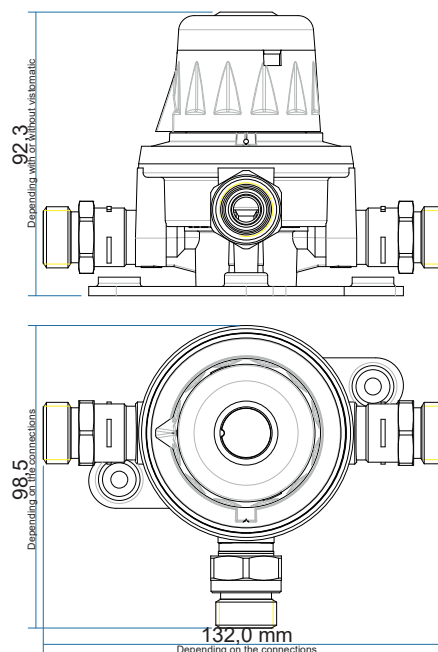
Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	0.5 - 0.7 - 1.5 - 3 bar	2.6 - 8 - 10 - 20 kg/h	X07 - X13	-20 ÷ +50 °C	Table A: A09	Table A: A31
					Table D: D01 - D11	Table G: G01 - G05 - G13
					Table E: E04 - E05	Table H: H03 - H07 - H09 - H10

### § Installation System



D-14

### Dimensions



### Materials

Body: Die Cast Zinc / Painted  
Spring: Steel  
Diaphragm: Approved NBR

## Automatic Changeover First Stage High Pressure Regulator

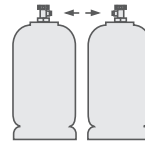
### Type 924P



#### Product Description

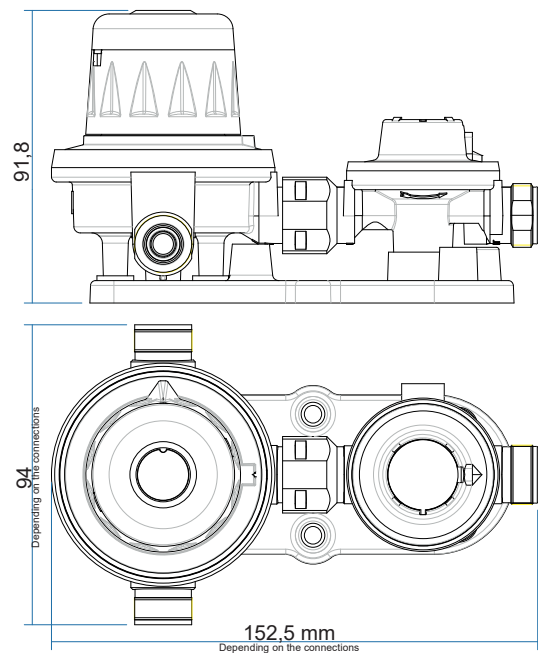
The Type 924P is a gas regulating assembly that consists of an automatic changeover with first stage function and of a pressure limiting device. The automatic changeover and the pressure limiting device are connected together by means of a permanent clinching system that guarantees utmost leak tightness. The Type 924P is supplied with a mounting bracket and protection cover. Type 924P is normally used in installations in compliance with NF French Standards.

#### § Installation System



D-13

#### Dimensions



#### Materials

Body: Die Cast Zinc / Painted

Spring: Steel

Diaphragm: Approved NBR

#### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	0.6 - 1.5 bar	2.6 - 8 kg/h	X07 - X10 - X13	-20 ÷ +50 °C	Table E: E04	Table H: H07

## Pressure Limiting Device

Domestic use

### Type 964L



### § Installation System

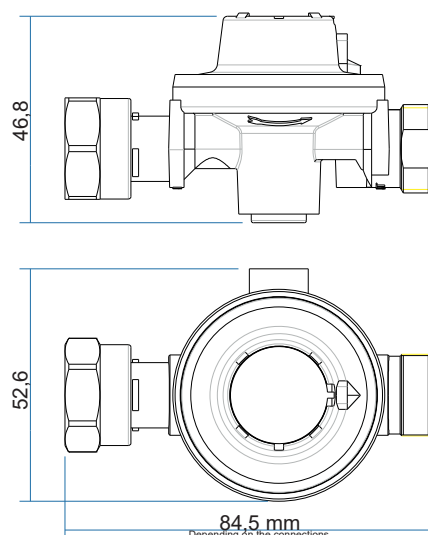


D-13

D-16

D-23

### Dimensions



### Product Description

The pressure limiting device is a device that activates reducing the pressure when there is an abnormally high delivery pressure from the first stage, probably due to problems with the correct first stage regulation eg. ruptured diaphragm.

The device has a rated pressure that is greater than the rated pressure of the first stage, so as to prevent it from activating during normal operation.

Type 964L can not be used as a first stage regulator but it should always be completed by a first stage before and a second stage regulator which further reduces the delivery pressure from the first stage down to the operating pressure.

Type 964L is normally used in installation in compliance with NF french Standards. See the Type 914S and Type 924P diagram schematic where the limiter Type 964L is included in kits.

### Materials

Body: Die Cast Zinc / Painted

Spring: Steel

Diaphragms: Approved NBR

### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	1,75 bar	10 kg/h	X10	-20 ÷ +50 °C	Table A: A31	Table H: H07
					Table D: D02	

## Automatic Changeover Double Stage Low Pres. Regulator

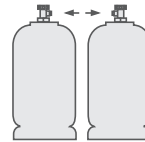
### Type 924N



#### Product Description

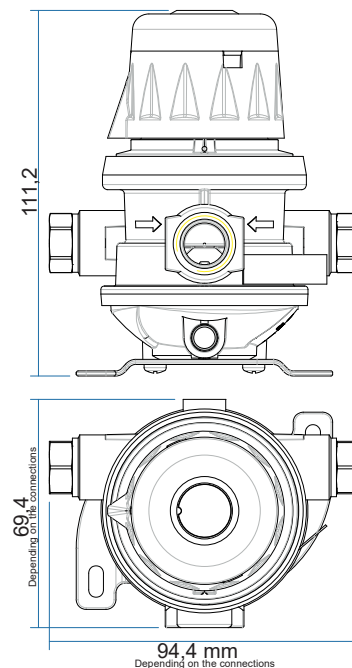
The compact double stage automatic changeover regulator, Type 924N is a combination consisting of an automatic changeover with a second stage of regulation. The first stage reduces the pressure at outlet from the cylinder to a value of 0,7 bar max; the second stage reduces further the gas pressure to the utilization pressure value. The automatic changeover ensures continuous gas flow, automatically changing the gas withdrawal from the exhausting service cylinder to the full reserve one. The full-empty indicator assembled into the changeover handle indicates the exhaustion status of the service cylinder. The indicator color changes from green to red, when the service cylinder is exhausted. The rotation of the automatic changeover handle to the full reserve cylinder restores the green color on the indicator. The 924N is equipped with a mounting bracket as standard.

#### § Installation System



D-11  
D-12

#### Dimensions



#### Materials

Body: Die Cast Zinc / Painted  
Spring: Steel  
Diaphragm: Approved NBR

#### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	28-29-30-37-50-90 mbar	1.5 - 3 kg/h	X07 - X13	-20 ÷ +50 °C	Table D: D11	Table G: G03 - G13
					Table E: E04 - E05	Table H: H07 Table T: T18

## Automatic Changeover Double Stage Low Pres. Regulator

Domestic use

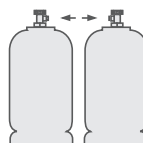
### Type 754C



#### Product Description

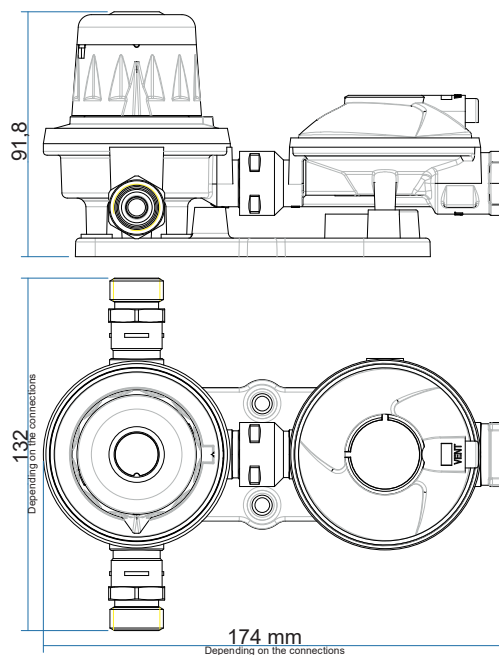
The double stage automatic changeover regulator, Type 754C is a combination consisting of an automatic changeover working as a 1st stage coupled to a 2nd stage regulator. The Automatic changeover (1st stage regulator) reduces the pressure at outlet from the cylinder to a value of 0,7 bar max; the 2nd stage reduces further the gas pressure to the utilization pressure value. The automatic changeover ensures continuous gas flow, automatically changing the gas withdrawal from the exhausting service cylinder to the full reserve one. The automatic changeover handle indicates the exhaustion status of the service cylinder. The indicator color changes from green to red, when the service cylinder is exhausted. The rotation of the automatic changeover handle to the full reserve cylinder restores the green color on the indicator. The 754C is equipped with a mounting bracket as standard.

#### § Installation System



D-11  
D-12

#### Dimensions



#### Materials

Body: Die Cast Zinc / Painted  
Spring: Steel  
Diaphragm: Approved NBR

#### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	28-29-30-37-50 mbar	5 - 6 kg/h	X03 - X07 - X13	-20 ÷ +50 °C	Table A: A01 - A31	Table G: G04
						Table H: H07

## Automatic Changeover Double Stage Low Pres. Regulator

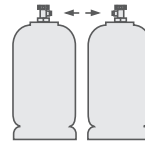
### Type 734C



#### Product Description

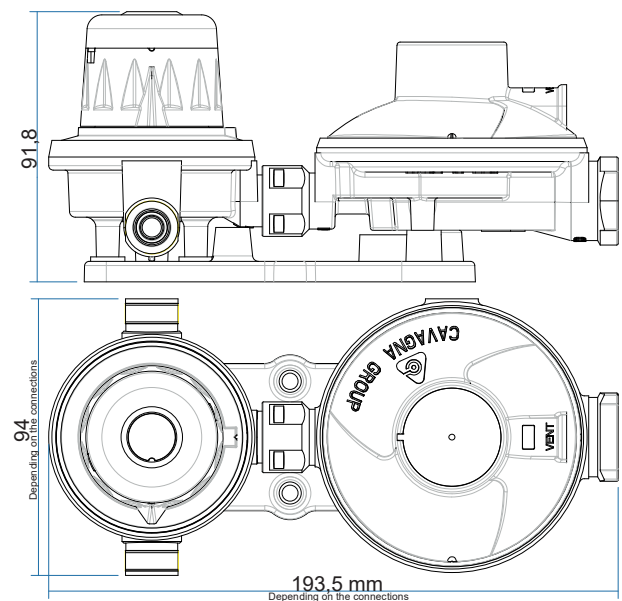
The double stage automatic changeover regulator, Type 734C is a combination consisting of an automatic changeover working as a 1st stage coupled to a 2nd stage regulator. The Automatic changeover (1st stage regulator) reduces the pressure at outlet from the cylinder to a value of 0,7 bar max; the 2nd stage reduces further the gas pressure to the utilization pressure value. The automatic changeover ensures continuous gas flow, automatically changing the gas withdrawal from the exhausting service cylinder to the full reserve one. The automatic changeover handle indicates the exhaustion status of the service cylinder. The indicator color changes from green to red, when the service cylinder is exhausted. The rotation of the automatic changeover handle to the full reserve cylinder restores the green color on the indicator. The 734C is equipped with a mounting bracket as standard.

#### § Installation System



D-11  
D-12

#### Dimensions



#### Materials

Body: Die Cast Zinc / Painted  
Spring: Steel  
Diaphragm: Approved NBR

#### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	37 - 50 mbar	12 kg/h	X03 - X07 - X13	-20 ÷ +50 °C	Table A: A31	Table G: G06

## Automatic Changeover Double Stage Low Pres. Regulator

### Type 524AC



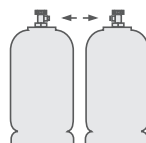
#### Product Description

The double stage automatic changeover regulator, Type 524AC is a combination consisting of an automatic changeover working as a 1st stage coupled to a 2nd stage regulator. The Automatic changeover (1st stage regulator) reduces the pressure at outlet from the cylinder to a value of 0,7 bar max; the 2nd stage reduces further the gas pressure to the utilization pressure value. The automatic changeover ensures continuous gas flow, automatically changing the gas withdrawal from the exhausting service cylinder to the full reserve one. The full-empty indicator assembled into the changeover handle indicates the exhaustion status of the service cylinder. The indicator color changes from green to red, when the service cylinder is exhausted. The rotation of the automatic changeover handle to the full reserve cylinder restores the green color on the indicator. The 524AC is equipped with a mounting bracket as standard.

#### Technical features

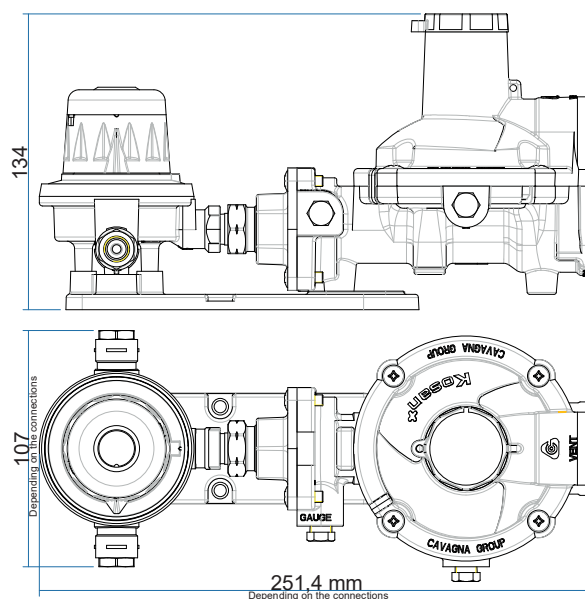
Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	11" WC	600000 BTU	X03 - X11 X13	-20 ÷ +50 °C	Table D: D11	Table G: G05

#### § Installation System



D-11  
D-12

#### Dimensions



#### Materials

Body: Die Cast Zinc / Aluminium / Painted  
Spring: Steel  
Diaphragm: Approved NBR



## Automatic Changeover Double Stage Low Pres. Regulator

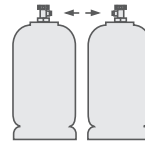
### Type 788



#### Product Description

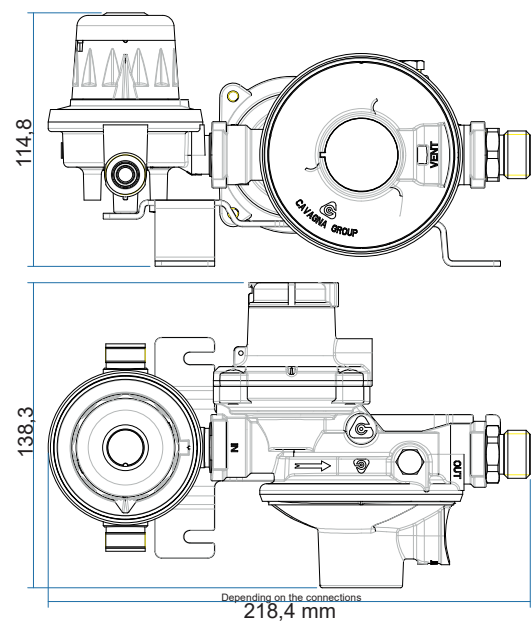
The double stage automatic changeover regulator, Type 788 is a combination consisting of an automatic changeover working as a 1st stage coupled to a 2nd stage regulator. The Automatic changeover (1st stage regulator) reduces the pressure at outlet from the cylinder to a value of 0,7 bar max; the 2nd stage reduces further the gas pressure to the utilization pressure value. The automatic changeover ensures continuous gas flow, automatically changing the gas withdrawal from the exhausting service cylinder to the full reserve one. The full-empty indicator assembled into the changeover handle indicates the exhaustion status of the service cylinder. The indicator color changes from green to red, when the service cylinder is exhausted. the rotation of the automatic changeover handle to the full reserve cylinder restores the green color on the indicator. The 788 is equipped with a mounting bracket as standard.

#### § Installation System



D-11  
D-12

#### Dimensions



#### Materials

Body: Die Cast Zinc / Painted  
Spring: Steel  
Diaphragm: Approved NBR

#### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Butane Propane L.P.G.</b>	29-37-50-100 mbar	4 - 8 - 10 - 15 kg/h	X03 - X08 - X09 X11 - X13	-20 ÷ +50 °C	Table A: A08	Table G: G06 - G14
					Table E: E04 - E05	

# High Pressure First Stage Regulator

## Type 988HP

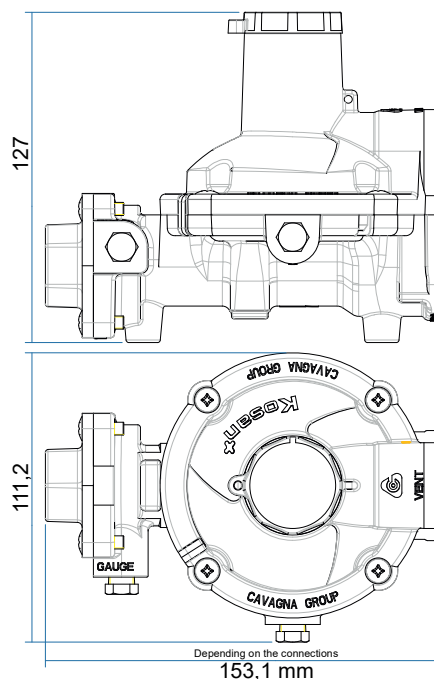


### § Installation System



D-25  
D-28

### Dimensions



### Materials

Body: Aluminium / Painted  
Spring: Steel  
Diaphragm: Approved NBR

### Product Description

Type 988HP is a first stage high pressure regulator reducing the inlet pressure, coming from the withdrawal cylinder, to a medium level suitable to feed a second stage regulator consequently.

They have to be used outdoors in the correct mounting position with the vent hole turned downwards. In their standard version, the Type 988HP regulators are delivered with the vent hole turned in line with the outlet fitting.

### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Propane L.P.G.</b>	0.35 - 0.7 bar 5 - 10 PSI	40 - 45 kg/h 2000000 2400000 BTU	X03 - X11	-20 ÷ +50 °C	Table D: D05 - D07 D09 - D12	Table G: G05 - G07 G09

## Low Pressure Second Stage Regulator

### Type 998LP

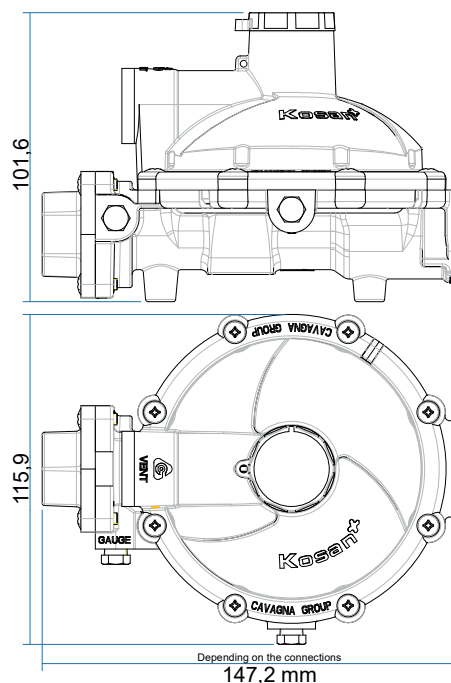


### § Installation System



D-25  
D-28

### Dimensions



### Materials

Body: Aluminium / Painted  
Spring: Steel  
Diaphragm: Approved NBR

### Product Description

Type 998LP is a second stage low pressure regulator suitable to be installed in double stage domestic installations.

Type 998LP reduces the pressure at the outlet from the 1st stage directly to the utilization pressure of the final appliances

This regulator cannot be used as single stage regulator, but always has to be installed after a 1st stage regulator. Iron inlet flange available.

### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Propane L.P.G.</b>	30-50 mbar 11" w.c.	from 15 to 30 kg/h from 1.000.000 to 2.600.000 BTU/h	X03 - X11 - X14	-20 ÷ +50 °C	Table D: D04-D05-D07-D09 D10-D13-D14	Table G: G05-G07-G09-G15

## 2 PSI Second Stage Regulator

### Type 998TP

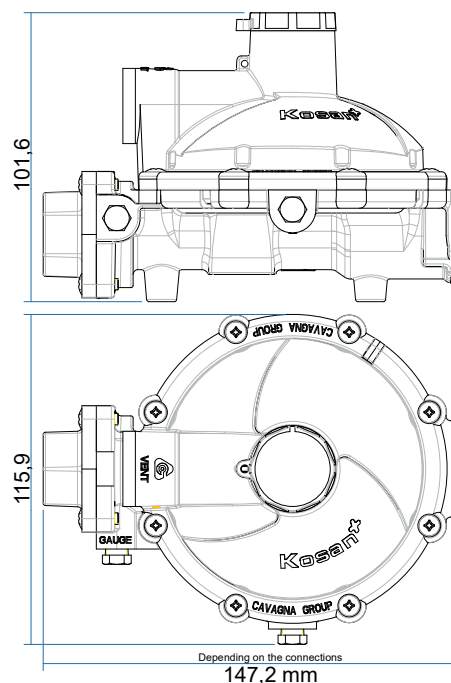


### § Installation System



D-25  
D-28

### Dimensions



### Materials

Body: Aluminium / Painted  
Spring: Steel  
Diaphragm: Approved NBR

### Product Description

Type 998TP is a second stage low pressure regulator suitable to be installed in double stage domestic installations.

Type 998TP reduces the pressure at the outlet from the 1st stage directly to the utilization pressure of the final appliances

This regulator cannot be used as single stage regulator, but always has to be installed after a 1st stage regulator.

### Technical features

Gas	Outlet pressure (Depending on the gas)	Capacity (Depending on the gas)	§ Safety Devices	Working temperature	§ Inlet connections	§ Outlet connections
<b>Propane L.P.G.</b>	2 PSI	from 1.460.000 to 1.680.000 BTU/h	X03 - X11 - X14	-20 ÷ +50 °C	Table D: D05-D07	Table G: G05-G07