

# Pressure Regulators

## High-Quality Premium Regulator Series



### **Gas Pressure Regulator**

We are exporter and supplier of comprehensive array of Ex-Lok Gas Regulators Such as, Double Stage Gas Regulator, Single Stage Regulator, Line Regulator, High Pressure Regulator, High Flow Regulator, Semi Auto Change Over Regulator. The offered products are applicable for various industries such as pharma R&D Petro, Refineries, Fertilizer, Automobile Oil & gas, etc, these products are manufactured with the help of finest quality material in compliance with set industrial standards. These regulators are highly demanded by our clients due to their perfect design, easy handling and robust construction.

## General Information:

Ex-Lok is a leading pressure regulator manufacturer in India, serving industries worldwide. We continually upgrade our regulator technology to meet changing customer requirements, and every Ex-Lok regulator undergoes rigorous testing to ensure reliable performance and safety.

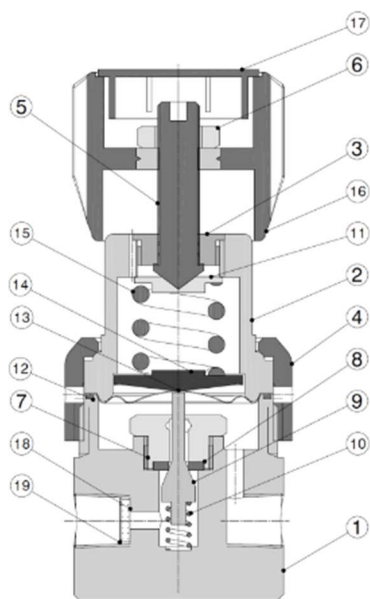
- **Dependable performance:** Ex-Lok pressure regulators safely reduce gas or liquid pressure from sources such as cylinders or compressors to the precise level required by downstream equipment, including analysers.
- **Precise control:** Selecting a regulator with inlet and control-range pressures closely matched to the system requirement helps ensure finer resolution and stable outlet-pressure control.
- **Wide material selection:** Available in SS304, 304L, 316, 316L, Monel, Brass, PFA, Neoprene, and Alloy C276 to support diverse industrial applications.
- **Tested for reliability:** Each regulator is nitrogen pressure-tested, cleaned, and packaged according to standard procedures.
- **Cleanliness options:** ASTM G93 Level E cleaning and packaging is available for brass and stainless-steel models.
- **Quality commitment:** Backed by focus on quality, customer satisfaction, prompt after-sales support, and continual improvement.
- **Warranty assurance:** Every Ex-Lok product includes a 12-month warranty from the date of shipment against defects in material or workmanship, covering replacement of confirmed defective parts.

## Index

|                                             |    |
|---------------------------------------------|----|
| A. Miniature Pressure Regulator.....        | 04 |
| B. Line or Point of Use Regulator.....      | 06 |
| C. Single Stage Regulator.....              | 08 |
| D. Single Stage Piston Type Regulator ..... | 10 |
| E. Double stage Regulator.....              | 12 |
| F. Double Stage Piston Type Regulator.....  | 14 |

## A. Miniature Pressure Regulator

Miniature pressure regulators offer a compact, cost-effective solution for reducing supply pressure to the required outlet pressure. Designed for quick response and accurate regulation, they are well suited for demanding industrial applications where controlled, reduced pressure supports energy conservation, safety requirements, air circuit control, and instrumentation. Ideal for space-restricted installations, these regulators deliver reliable performance without compromising efficiency. They convert fluctuating air supply into a stable, reduced air pressure within the regulator's operating range.



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| Line Regulator/Mini |               |                        |        |       |        |       |
|---------------------|---------------|------------------------|--------|-------|--------|-------|
|                     | Component     | Material               |        |       |        |       |
| 1                   | Body          | SS304                  | SS304L | SS316 | SS316L | Brass |
| 2                   | Body cap      | SS304                  | SS304L | SS316 | SS316L | Brass |
| 3                   | Bush          | Gun metal              |        |       |        |       |
| 4                   | Cap ring      | SS304                  | SS304L | SS316 | SS316L | Brass |
| 5                   | Stem          | SS316                  |        |       |        |       |
| 6                   | Stem nut      | SS316                  |        |       |        |       |
| 7                   | Seat retainer | SS316                  |        |       |        |       |
| 8                   | Seat          | PFA                    |        |       |        |       |
| 9                   | Poppet        | SS316                  |        |       |        |       |
| 10                  | Poppet Spring | SS316 with Zink plated |        |       |        |       |
| 11                  | Spring button | SS316                  |        |       |        |       |
| 12                  | O-Ring        | Neoprene               |        |       |        |       |
| 13                  | Diaphragm     | alloy C276             |        |       |        |       |
| 14                  | Stop plate    | SS316                  |        |       |        |       |
| 15                  | Range spring  | SS316 with Zink plated |        |       |        |       |
| 16                  | Knob handle   | Plastic                |        |       |        |       |
| 17                  | Cover         | Plastic                |        |       |        |       |
| 18                  | Filter        | Brass filter           |        |       |        |       |
| 19                  | Filter ring   | Carbon spring steel    |        |       |        |       |

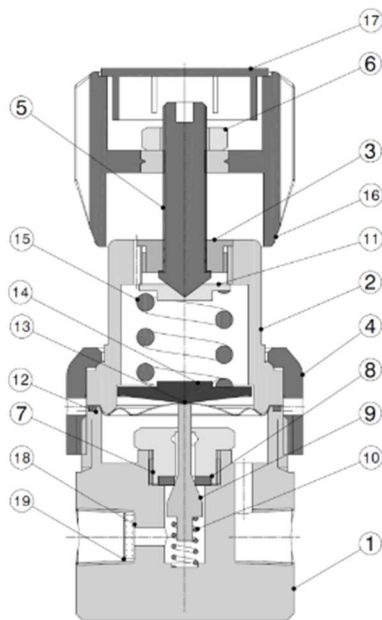
## SPECIAL FEATURES

- Compact body provides small foot space
- Special Metal Diaphragm & Seat
- Low internal volume
- All 316L/304L SS parts including bonnet with panel mounting as standard
- ‘Soft’ seating area perpendicular to flow stream to minimise particle damage
- Stainless steel body & Bonnet for corrosive & toxic gases

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>Type of Regulator</b>            | Miniature Regulator           |
| <b>Series</b>                       | MR Series                     |
| <b>Body Material</b>                | 316L/304L Stainless Steel     |
| <b>Cap Assembly</b>                 | Standard                      |
| <b>Cleaning Process</b>             | Standard Cleaning Process     |
| <b>Connection 1 Size &amp; Type</b> | 1/4 in. NPTF                  |
| <b>Connection 2 Size &amp; Type</b> | 1/4 in. NPTF                  |
| <b>Handle</b>                       | Knob                          |
| <b>Max Temperature</b>              | 70 oC                         |
| <b>Inlet pressure</b>               | Upto 1500 psig (Upto 100 bar) |
| <b>Outlet pressure</b>              | Upto 100 psig (Upto 7 bar)    |
| <b>Flow rate</b>                    | 100 LPM @ 4 Bar outlet        |
| <b>Sensing element</b>              | Diaphragm C276                |
| <b>Seat Material</b>                | PFA                           |
| <b>Mounting</b>                     | Back/Panel                    |

## B. Line or Point of Use Regulator

A line regulator, as the name implies, is installed in a gas line to provide a means to further reduce the gas line pressure prior to its end use point. A typical line regulator is supplied with an outlet gauge.



| Line Regulator |               |                        |        |       |        |       |
|----------------|---------------|------------------------|--------|-------|--------|-------|
|                | Component     | Material               |        |       |        |       |
| 1              | Body          | SS304                  | SS304L | SS316 | SS316L | Brass |
| 2              | Body cap      | SS304                  | SS304L | SS316 | SS316L | Brass |
| 3              | Bush          | Gun metal              |        |       |        |       |
| 4              | Cap ring      | SS304                  | SS304L | SS316 | SS316L | Brass |
| 5              | Stem          | SS316                  |        |       |        |       |
| 6              | Stem nut      | SS316                  |        |       |        |       |
| 7              | Seat retainer | SS316                  |        |       |        |       |
| 8              | Seat          | PFA                    |        |       |        |       |
| 9              | Poppet        | SS316                  |        |       |        |       |
| 10             | Poppet Spring | SS316 with Zink plated |        |       |        |       |
| 11             | Spring button | SS316                  |        |       |        |       |
| 12             | O-Ring        | Neoprene               |        |       |        |       |
| 13             | Diaphragm     | Alloy C276             |        |       |        |       |
| 14             | Stop plate    | SS316                  |        |       |        |       |
| 15             | Range spring  | SS316 with Zink plated |        |       |        |       |
| 16             | Knob handle   | Plastic                |        |       |        |       |
| 17             | Cover         | Plastic                |        |       |        |       |
| 18             | Filter        | Brass filter           |        |       |        |       |
| 19             | Filter ring   | Carbon spring steel    |        |       |        |       |

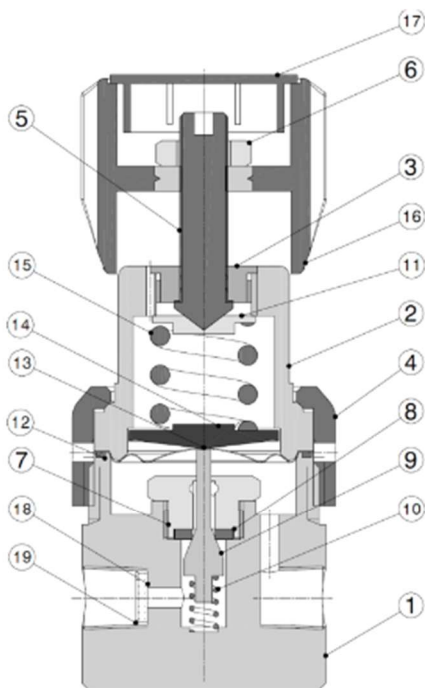
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## SPECIAL FEATURES

- Reduces Central Gas Line pressures (upstream) to a lower downstream pressure
- Suitable for High Pressures up to 15 bar
- For inert, reactive, flammable and oxidizing gases and gas mixtures
- Excellent and accurate Pressure control
- Designed to minimize contamination
- Low internal volume (no dead-space)
- Long service life and easy to maintain

|                                     |                              |
|-------------------------------------|------------------------------|
| <b>Type of Regulator</b>            | Line Regulator               |
| <b>Series</b>                       | RL Series                    |
| <b>Body Material</b>                | SS 304,304L,316,316L, Brass  |
| <b>Cap Assembly</b>                 | Standard                     |
| <b>Cleaning Process</b>             | Standard Cleaning Process    |
| <b>Connection 1 Size &amp; Type</b> | 1/4 in. NPTF                 |
| <b>Connection 2 Size &amp; Type</b> | 1/4 in. NPTF                 |
| <b>Handle</b>                       | Knob                         |
| <b>Max Temperature</b>              | 70 oC                        |
| <b>Inlet pressure</b>               | Upto 1500 psig (Upto100 bar) |
| <b>Outlet pressure</b>              | Upto 150 psig (Upto 10 bar)  |
| <b>Flow rate</b>                    | 200 LPM/400 LPM              |
| <b>Sensing element</b>              | Diaphragm C276               |
| <b>Seat Material</b>                | PFA                          |
| <b>Mounting</b>                     | Back/Panel                   |

## C. Single Stage Regulator



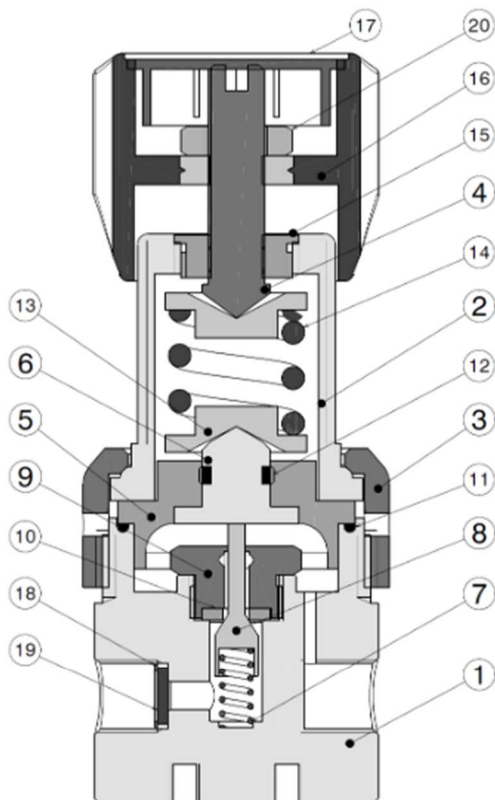
| Single Stage Regulator |               |                        |        |       |        |       |
|------------------------|---------------|------------------------|--------|-------|--------|-------|
|                        | Component     | Material               |        |       |        |       |
| 1                      | Body          | SS304                  | SS304L | SS316 | SS316L | Brass |
| 2                      | Body cap      | SS304                  | SS304L | SS316 | SS316L | Brass |
| 3                      | Bush          | Gun metal              |        |       |        |       |
| 4                      | Cap ring      | SS304                  | SS304L | SS316 | SS316L | Brass |
| 5                      | Stem          | SS316                  |        |       |        |       |
| 6                      | Stem nut      | SS316                  |        |       |        |       |
| 7                      | Seat retainer | SS316                  |        |       |        |       |
| 8                      | Seat          | PFA                    |        |       |        |       |
| 9                      | Poppet        | SS316                  |        |       |        |       |
| 10                     | Poppet Spring | SS316 with Zink plated |        |       |        |       |
| 11                     | Spring button | SS316                  |        |       |        |       |
| 12                     | O-Ring        | Neoprene               |        |       |        |       |
| 13                     | Diaphragm     | Alloy C276             |        |       |        |       |
| 14                     | Stop plate    | SS316                  |        |       |        |       |
| 15                     | Range spring  | SS316 with Zink plated |        |       |        |       |
| 16                     | Knob handle   | Plastic                |        |       |        |       |
| 17                     | Cover         | Plastic                |        |       |        |       |
| 18                     | Filter        | Brass filter           |        |       |        |       |
| 19                     | Filter ring   | Carbon spring steel    |        |       |        |       |

## SPECIAL FEATURES

- Convoluted diaphragm design to improve regulation precision and cycle life
- Applicable to corrosive or toxic gases with special cleaning and packaging
- Applicable to oxygen-enriched environments
- Adjustable relief pressure
- 20 µm filter installed at inlet

|                                     |                             |
|-------------------------------------|-----------------------------|
| <b>Type of Regulator</b>            | Single Stage Regulator      |
| <b>Series</b>                       | RS Series                   |
| <b>Body Material</b>                | SS 304,304L,316,316L, Brass |
| <b>Cap Assembly</b>                 | Standard                    |
| <b>Cleaning Process</b>             | Standard Cleaning Process   |
| <b>Connection 1 Size &amp; Type</b> | 1/4 & 1/2 In NPTF           |
| <b>Connection 2 Size &amp; Type</b> | 1/4 & 1/2 In NPTF           |
| <b>Handle</b>                       | Knob                        |
| <b>Max Temperature</b>              | 70 oC                       |
| <b>Inlet pressure</b>               | Upto 210 bar                |
| <b>Outlet pressure</b>              | Upto 14 Bar                 |
| <b>Flow rate</b>                    | 250 LPM/800 LPM             |
| <b>Sensing element</b>              | Diaphragm C276              |
| <b>Seat Material</b>                | PFA                         |
| <b>Mounting</b>                     | Back/Panel                  |

## D. Single Stage Piston Type Regulator



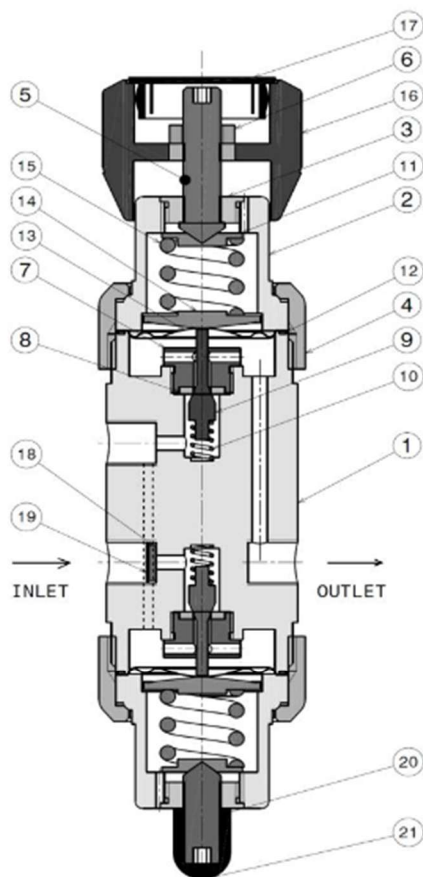
| Singal Stage Piston Type |                  |                        |        |       |        |       |
|--------------------------|------------------|------------------------|--------|-------|--------|-------|
| 1                        | Body             | SS304                  | SS304L | SS316 | SS316L | Brass |
| 2                        | Body Cap         | SS304                  | SS304L | SS316 | SS316L | Brass |
| 3                        | Cap ring         | SS304                  | SS304L | SS316 | SS316L | Brass |
| 4                        | Stem             | SS316                  |        |       |        |       |
| 5                        | Piston guide     | SS316                  |        |       |        |       |
| 6                        | Piston           | SS316                  |        |       |        |       |
| 7                        | Popet            | SS316                  |        |       |        |       |
| 8                        | Popet spring     | SS316 with Zink plated |        |       |        |       |
| 9                        | Seat retainer    | SS316                  |        |       |        |       |
| 10                       | Seat             | PFA                    |        |       |        |       |
| 11                       | O-Ring Body      | Neoprene               |        |       |        |       |
| 12                       | O-Ring of Piston | Neoprene               |        |       |        |       |
| 13                       | Spring button    | SS316                  |        |       |        |       |
| 14                       | Range spring     | SS316 with Zink plated |        |       |        |       |
| 15                       | Bush             | Gun metal              |        |       |        |       |
| 16                       | Knob handle      | Plastic                |        |       |        |       |
| 17                       | Cover            | Plastic                |        |       |        |       |
| 18                       | Filter           | Brass                  |        |       |        |       |
| 19                       | Filter ring      | Carbon spring steel    |        |       |        |       |
| 20                       | Stem nut         | SS316                  |        |       |        |       |

## SPECIAL FEATURES

- For high pressure applications
- Robust piston-sensed design to ensure safety and reliability
- For non-corrosive gases (due to seal limit)
- With special cleaning and packaging, applicable to oxygen-enriched environments
- Venting model available
- 20 µm filter installed at inlet

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| <b>Type of Regulator</b>            | Single Stage Regulator (Piston Type) |
| <b>Series</b>                       | RSP Series                           |
| <b>Body Material</b>                | SS 304,304L,316,316L, Brass          |
| <b>Cap Assembly</b>                 | Standard                             |
| <b>Cleaning Process</b>             | Standard Cleaning Process            |
| <b>Connection 1 Size &amp; Type</b> | 1/4 & 1/2 In NPTF                    |
| <b>Connection 2 Size &amp; Type</b> | 1/4 & 1/2 In NPTF                    |
| <b>Handle</b>                       | Knob                                 |
| <b>Max Temperature</b>              | 70 oC                                |
| <b>Inlet pressure</b>               | Upto 210 bar                         |
| <b>Outlet pressure</b>              | Upto 70 & 100 Bar                    |
| <b>Flow rate</b>                    | 1000LPM/ 1500LPM                     |
| <b>Sensing element</b>              | Diaphragm C276                       |
| <b>Seat Material</b>                | PFA                                  |
| <b>Mounting</b>                     | Back/Panel                           |

## E. Double stage Regulator



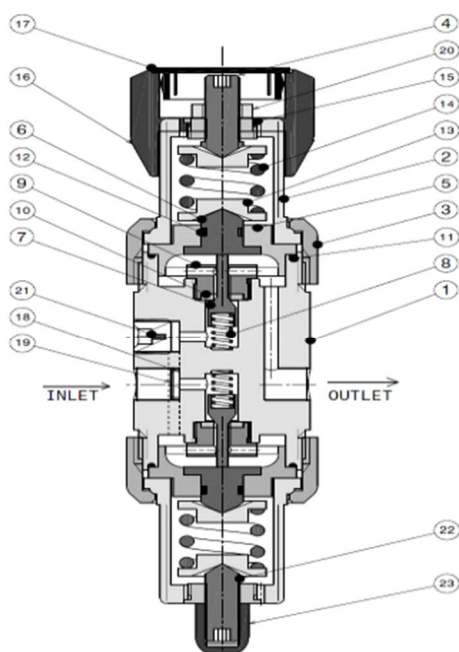
| Double Stage Diaphragm type |               |                    |       |
|-----------------------------|---------------|--------------------|-------|
|                             | Component     | Material           |       |
| 1                           | Body          | SS 316L/ Monel     |       |
| 2                           | Body cap      | SS 316L/ Monel     |       |
| 3                           | Bush          | Gun metal          |       |
| 4                           | Cap ring      | SS 316L            | Monel |
| 5                           | Stem          | SS316 L / Monel    |       |
| 6                           | Stem nut      | SS316 L / Monel    |       |
| 7                           | Seat retainer | SS316 L/Monel      |       |
| 8                           | Seat          | PTFE               |       |
| 9                           | Poppet        | SS316 L / Monel    |       |
| 10                          | Poppet Spring | SS316 L/ Hastalloy |       |
| 11                          | Spring button | SS316 L/ Monel     |       |
| 12                          | O-Ring        | FFKM               |       |
| 13                          | Diaphragm     | Alloy C276         |       |
| 14                          | Stop plate    | SS316 L/ Monel     |       |
| 15                          | Range spring  | SS316L/ Hastalloy  |       |
| 16                          | Knob handle   | Plastic            |       |
| 17                          | Cover         | Plastic            |       |
| 18                          | Filter        | Brass              |       |
| 19                          | Filter ring   | SS316L / Monel     |       |
| 20                          | Stem          | SS316L / Monel     |       |
| 21                          | lock Nut      | SS316L/ Monel      |       |

## SPECIAL FEATURES

Is designed for use in applications requiring constant outlet pressure even with wide variations in inlet pressure. This two-stage regulator is comparable to two single-stage regulators connected in series. The first stage is factory set to reduce the inlet pressure to 500 psig (34.4 bar). The second stage can be adjusted with the handle to achieve the required outlet pressure. This two-stage arrangement minimizes the supply-pressure effect caused by fluctuating inlet pressure, such as with a depleting gas cylinder. As inlet pressure drops below the setting of the first stage, the regulator then functions as a single-stage regulator. The first-stage pressure setting can be reduced while monitoring the pressure at the interstage port, but lower flow may result.

|                                     |                           |
|-------------------------------------|---------------------------|
| <b>Type of Regulator</b>            | Double Stage Regulator    |
| <b>Series</b>                       | TX Series                 |
| <b>Body Material</b>                | SS 316L/ Hastelloy/ Monel |
| <b>Cap Assembly</b>                 | Standard                  |
| <b>Cleaning Process</b>             | Standard Cleaning Process |
| <b>Connection 1 Size &amp; Type</b> | As per gas standard       |
| <b>Connection 2 Size &amp; Type</b> | 1/4 in. NPTF              |
| <b>Handle</b>                       | Knob                      |
| <b>Max Temperature</b>              | 70 oC                     |
| <b>Inlet pressure</b>               | Upto 210 bar              |
| <b>Outlet pressure</b>              | Upto 14 Bar               |
| <b>Flow rate</b>                    | 250LPM/ 800LPM            |
| <b>Sensing element</b>              | Diaphragm C276            |
| <b>Seat Material</b>                | PTFE                      |
| <b>Mounting</b>                     | Back/Panel                |

## F. Double Stage Piston Type Regulator



| Double Stage Piston Type |                  |                        |        |       |        |       |
|--------------------------|------------------|------------------------|--------|-------|--------|-------|
| 1                        | Body             | SS304                  | SS304L | SS316 | SS316L | Brass |
| 2                        | Body Cap         | SS304                  | SS304L | SS316 | SS316L | Brass |
| 3                        | Cap ring         | SS304                  | SS304L | SS316 | SS316L | Brass |
| 4                        | Stem nut         | SS316                  |        |       |        |       |
| 5                        | Piston guide     | SS316                  |        |       |        |       |
| 6                        | Piston           | SS316                  |        |       |        |       |
| 7                        | Popet            | SS316                  |        |       |        |       |
| 8                        | Popet spring     | SS316 with Zink plated |        |       |        |       |
| 9                        | Seat retainer    | SS316                  |        |       |        |       |
| 10                       | Seat             | PFA                    |        |       |        |       |
| 11                       | O-Ring Body      | Neoprene               |        |       |        |       |
| 12                       | O-Ring of Piston | Neoprene               |        |       |        |       |
| 13                       | Spring button    | SS316                  |        |       |        |       |
| 14                       | Range spring     | SS316 with Zink plated |        |       |        |       |
| 15                       | Bush             | Gun metal              |        |       |        |       |
| 16                       | Knob handle      | Plastic                |        |       |        |       |
| 17                       | Cover            | Plastic                |        |       |        |       |
| 18                       | Filter           | Brass                  |        |       |        |       |
| 19                       | Filter ring      | Carbon spring steel    |        |       |        |       |
| 20                       | Stem nut         | SS316                  |        |       |        |       |
| 21                       | port plug        | SS316                  |        |       |        |       |
| 22                       | Stem             | SS316                  |        |       |        |       |
| 23                       | lock nut         | SS316                  |        |       |        |       |

## SPECIAL FEATURES

- For high pressure applications
- Robust piston-sensed design to ensure safety and reliability
- For non-corrosive gases (due to seal limit)
- With special cleaning and packaging, applicable to oxygen-enriched environments
- Venting model available
- 20 µm filter installed at inlet

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| <b>Type of Regulator</b>            | Double Stage Regulator (Piston Type) |
| <b>Series</b>                       | RDSPSeries                           |
| <b>Body Material</b>                | SS 304,304L,316,316L, Brass          |
| <b>Cap Assembly</b>                 | Standard                             |
| <b>Cleaning Process</b>             | Standard Cleaning Process            |
| <b>Connection 1 Size &amp; Type</b> | 1/4 & 1/2 In NPTF                    |
| <b>Connection 2 Size &amp; Type</b> | 1/4 & 1/2 In NPTF                    |
| <b>Handle</b>                       | Knob                                 |
| <b>Max Temperature</b>              | 70 oC                                |
| <b>Inlet pressure</b>               | Upto 210 bar                         |
| <b>Outlet pressure</b>              | Upto 70 & 100 Bar                    |
| <b>Flow rate</b>                    | 1000LPM/ 1500LPM                     |
| <b>Sensing element</b>              | Diaphragm C276                       |
| <b>Seat Material</b>                | PFA                                  |
| <b>Mounting</b>                     | Back/Panel                           |