

Ensured cost-effective
solution to all process
control application

RC2000



Regport Control Pvt. Ltd. (RCPL) provides solutions that optimize fluid control for industries ranging from Oil & Gas to chemical processing, water treatment, power generation and more. We specialize in designing and manufacturing high-quality control valves that are engineered to meet the most demanding industrial applications. This subsidiary of the Regport Group of Companies operates to provide the cutting-edge solutions to our clients with world class range of Control Valves and On/Off Valves. With a focus on precision, reliability and innovation, our team of engineers works closely with clients to understand unique challenges and deliver valves that maximize efficiency, reduce downtime and ensure compliance with international standards.



An Indian group –

spread across 6 continents and having installations in 40 countries worldwide.



**REGPORT
TECHNOLOGIES
PVT. LTD. (RTPL)**

RTPL, the Regport Group flagship company is an ISO 9001:2015 certified and is one of the fewest manufacturers who design, manufacture and supply complete range of Pressure Control Valves, Safety Relief Valves, Tank Protection Devices, Centrifuges Blanketing Systems and Fuel Gas conditioning & Metering Skids under one roof.



**REGPORT
CONTROLS
PVT. LTD. (RCPL)**

RCPL provides solutions that optimize fluid control for industries ranging from Oil & Gas to chemical processing, water treatment, power generation, and more. Specialized in designing and manufacturing high-quality control valves that are engineered to meet the most demanding Industrial applications



**REGPORT PROCESS
MANAGEMENT
PVT. LTD. (RPMPL)**

RPMPL dedicatedly supports customers for the complete packages needed for operations of the new plants as well as upgradations of the existing running plants. Their 3 sub-verticals
-Manufacturing Manual Valves viz. Gate, Globe, Check, Ball & Butterfly Valves
-Complete packages of gas generation plants for Nitrogen, Oxygen, Bio Gas etc.
-Manufacturing of Rupture Disc of Stainless Steel, PTFE Coated Stainless Steel grades.



**REGPORT
INTERNATIONAL
FZCO - Dubai-UAE**

RIFZCO is a UAE based Company -globally addressing leading-edge engineering solution. Their sub-verticals:
-International Sales Office for all Regport Group of Companies
-Design and supply customized packages and skids.
-RIFZCO has officially partnered with Afility Engineering Pvt. Ltd. for the Middle East and Africa region.

RC2000



Scope of Design:

End Connection Sizes:
1" to 8" (25NB to 200NB)

End connection Styles:
ANSI & DIN Flanged RF, Butt weld & socket weld

Valve Body Ratings:
ANSI 150 to ANSI 1500 PN10 to PN250

Bonnet Packings:
Tef/Chev for standard duty. Grafoil for high temperatures.

Body Material Options:
ASTM A216 Gr. WCB/WCC ASTM A351 ASTM A217 WC6/WC9

Design Standards:
ASME B16.34 ISA-75.03

Temperature Range
-29°C to 427 °C
-20 °F to 800 °F

Specially designed to ensure a cost effective solution to a variety of process control applications. RC 2000 model Series is a limited to a core of options, which allows faster deliveries, high Interchangeability of trims and low costs.

➤ **Design flexibility:**

- Inherent Modified Equal Percentage trim with options for equal percentage and linear from characterized positioner.
- Clamped guide and seat allow quick change for modification/service.
- High interchangeability of trim components and soft parts.

➤ **Performance:**

- High flow capacity
- Tight shut-off
- Excellent flow control rangeability

➤ **Design Integrity:**

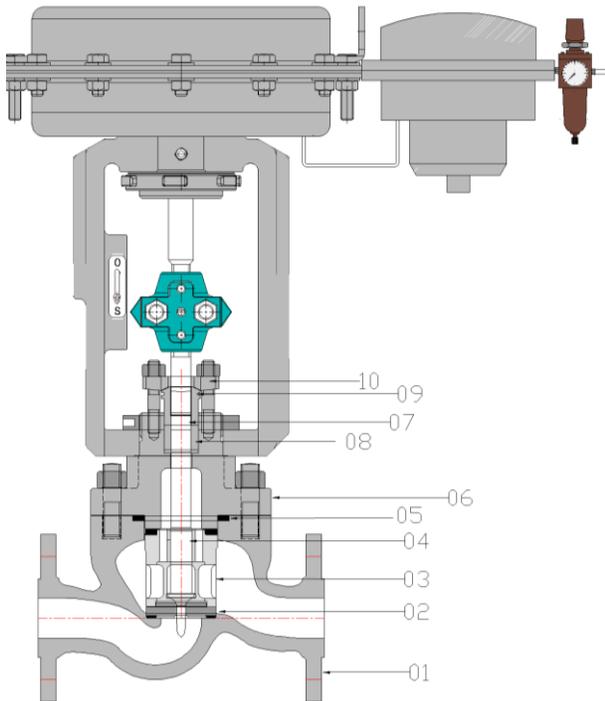
- Optimized using computer aided analysis
- Design to ASME B16.34/B 16.10
- High integrity precision cast components

➤ **Actuation:**

- 'M' Series multispring Opposed Pneumatic Diaphragm Actuator, available models- M-230, M-385, M-700 & M-1400.
- 'S' Series Single Spring Opposed Pneumatic Diaphragm Actuator, Available models- S-225, S-320, S-550, S-700, S-960, S-1400 & S-1920.
- Piston type Linear actuator, available models -PA150, PA250, PA330, PA400, PA500

➤ **Sizing/Noise Calculations:**

Our team of experts is well equipped to perform valve sizing, velocity and or Sound Pressure Level calculations.



| Sr. No | Item | Material |
|--------|---------------|--|
| 1 | BODY | WCB/WCC,LCB/LCC,WC6/WC9, Others on request |
| 2 | SEAT | AISI 316/316L, UNS S31803, Others on request |
| 3 | CAGE/GUIDE | AISI 316/316L, UNS S31803, Others on request |
| 4 | PLUG | AISI 316/316L, UNS S31803, Others on request |
| 5 | GASKET | AISI 316/316L + Graphite |
| 6 | BONNET | WCB/WCC,LCB/LCC,WC6/WC9, Others on request |
| 7 | STEM | AISI 316/316L, UNS S31803, Others on request |
| 8 | GLAND PACKING | PTFE/Chev |
| 9 | GLAND BUSH | AISI 316/316L, UNS S31803, Others on request |
| 10 | GLAND FLANGE | AISI 316/316L, / Suitable to body MOC |

Design Cv Values-

The design Cv values detailed below are defined as the flow of water (SG = 1) through the valve at full lift in US gallons per minute with a pressure drop of 1 psi.

| Trim Size | Cv Values |
|-----------|-----------|
| 1/2" | 4.80 |
| 1" | 12.50 |
| 1.5" | 27 |
| 2" | 50 |
| 3" | 112 |
| 4" | 175 |
| 6" | 390 |
| 8" | 600 |

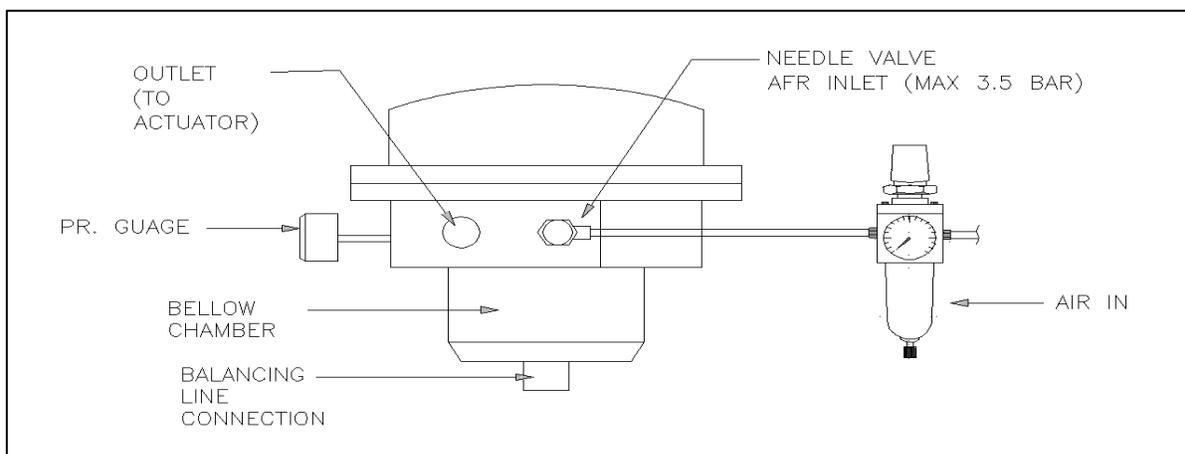
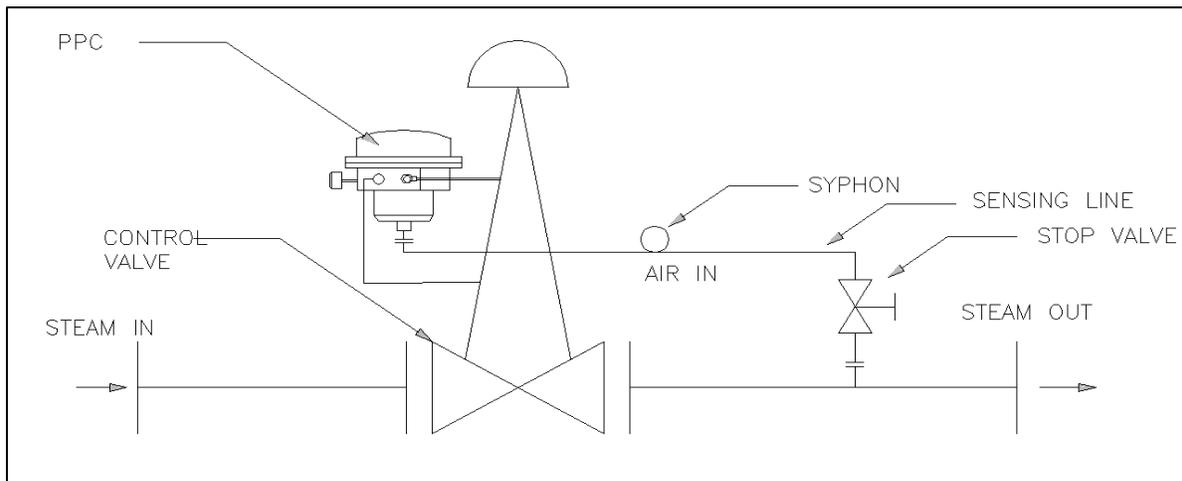
Note-

- General Selection Information -The information detailed is intended to act as a general guide, to assist in the selection of an RC 2000 valve.
- Trim Cv Calculation - A full set of procedures for calculating the Cv with various fluids is available with our expert team.
- 3. The above are general guidelines. Higher or lower can be provided. Please consult our expert team.

| Component | Temperature Range | |
|--------------|--|--|
| | Resilient | Graphite |
| Piston Ring | 29°C to 250°C -20°F to 483°F | 251°C to 427°C 484°F to 800°F |
| Stem Packing | Tef/ Chev 29°C to 250°C -20°F to 483°F | Graphoil 251°C to 427°C 484°F to 800°F |

Gives a general guide to the limitations of various design features when associates with temperatures.

Typical Installation of Regulator with Pneumatic Pressure Controller -





REGPORT CONTROLS PVT. LTD.

**Plot No.F47, MIDC, Anand Nagar, Additional Ambernath, Ambernath(E).421506. Maharashtra.
India**

Tel.: +91 904 903 8155/9155. Email : sales@regportcontrols.com