# Parker Product Datasheet

Stainless steel flow control regulators are used to regulate the speed of a cylinder rod as well as gas flow in environments with high mechanical or chemical constraints.

**PART NUMBER:** 7820 00 10
**SHAPE:** Flow regulator stainless steel in-line female unidirectional
**CONNECTION 1 THREAD SIZE (METRIC):** G1/8
**CONNECTION 1 THREAD STYLE:** BSPP

## PRODUCT OVERVIEW

Stainless steel flow control regulators are used to regulate the speed of a cylinder rod as well as gas flow in environments with high mechanical or chemical constraints. Those regulators are suitable for food environment as they ensure no contamination of conveyed fluids. The design is optimised by using smooth external surfaces in order to facilitate your cleaning processes.

Features/Benefits:

- Robust

• Suitable for corrosive environments
• Excellent mechanical and chemical resistance
• 100% leak-tested in production
• No contamination of conveyed fluids

- Optimised Design

• Smooth external surfaces to facilitate cleaning
• Fully compatible with food environments
• Accurate and easy adjustment

Markets:

• Factory Automation
• Vehicle Assembly Facilities
• Food and Beverage
• Semiconductor
• Wearing Apparel
• Packaging Machinery
• Rail

Applications:

• Pneumatic Cylinder Control
• Low Pressure Compressed Air Flow Regulation
• Suitable for Corrosive Environment

Technologies:

• Regulator
• Steel regulator
• Bi-directional regulator
• Uni-directional regulator
• Swivel outlet
• Pneumatic controls

Technical Characteristics:

• Fluids: Compressed Air
7822: all compatible fluids depending on whether FKM or PTFE seals are used
• Materials: 316L stainless steel, FKM
• Pressure:
7810-7812: Vacuum to 10 bar
7820: Vacuum to 16 bar
7822: Vacuum to 40 bar
• Temperature:
7810-7812: 0°C to +70°C

7820-7822: -15°C to +120°C

Regulations:

- DI: 2002/95/EC (RoHS)
- RG: 1907/2006 (REACH)
- DI: 97/23/EC (PED)
- RG: External Components: 21CFR (FDA)
- RG: External Components: 1935/2004/EC

Product Types:

- Flow Regulator Exhaust, Male/Female BSPP and Metric Thread
- Bi-Directional Flow Regulator, Male/Female BSPP and Metric Thread
- In-Line One-Way Flow Regulator, Female BSPP Thread
- Bi-Directional In-Line Flow Regulator, Female BSPP Thread

# TECH SPECIFICATIONS

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|---|---|
| **MAXIMUM OPERATING TEMPERATURE** | 120 °C |
| **DIVISION** | Low Pressure Connectors Europe Division |
| **MAXIMUM OPERATING PRESSURE** | 16 barg |
| **MINIMUM OPERATING TEMPERATURE** | -15 °C |
| **SPECIFICATIONS MET** | ROHS, REACH, FDA Regl. N° 1935/2004 |
| **MEDIA** | LF3000, LIQUIfit |
| **APPLICATION** | Robotics, Automotive Process, Pneumatics, Semi-Conductors, Textile, Water Treatment, Beverage Dispensers |
| **BODY MATERIAL** | STAINLESS STEEL 316L |
| **O-RING MATERIAL** | FKM |
| **WEIGHT** | 0.175 kg |
| **HANDLE TYPE** | STAINLESS STEEL 316L |

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|---|---|
| **QUANTITY PER BOX** | 1 |
| **DIAMETER** | 7 nom |