

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 21

SHAPE: Flow regulator stainless steel in-line female unidirectional

CONNECTION 1 THREAD SIZE (METRIC): G1/2

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

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	0.262 kg
HANDLE TYPE	STAINLESS STEEL 316L
QUANTITY PER BOX	1
DIAMETER	12 nom