

INDUSTRIAL AUTOMATION PRODUCT

R880-03F

High-Flow Precision Pressure Regulator

NUMATICS R880-03F is a Series 80 high-flow precision pressure regulator. It controls downstream pneumatic pressure for industrial air and automation circuits.

IDENTITY	VERIFIED VALUE
Manufacturer	NUMATICS
System family	Numatics Series 80 Precision Regulators
Part number	R880-03F
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named NUMATICS product record.

PARAMETER	TECHNICAL VALUE
Product code	R880-03F
Product description	Precision high-flow regulator
Regulator series	Series 80
Manufacturer catalog descriptor	PREC. HIGH FLOW REG. 2120
Series port sizes	1/4 inch; 3/8 inch
Series operating environment	Indoor; outdoor
Series regulator versions	Standard relief; high relief
Control behavior	Continuous bleed / low supply consumption
Series application	Precision pressure control

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	clean compressed-air supply
Companion hardware	downstream pneumatic manifold
Field connection	pressure gauge or monitored pressure point
Primary system function	Regulates downstream pneumatic pressure for high-flow service
Controlled acceptance duty	High-flow instrument-air regulation

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System Role and Architecture

NUMATICS R880-03F is a Series 80 high-flow precision pressure regulator. It controls downstream pneumatic pressure for industrial air and automation circuits.

FUNCTION 1

Regulates downstream pneumatic pressure for high-flow service

FUNCTION 2

Uses precision-regulator architecture for stable pressure control

FUNCTION 3

Provides a field-adjustable pressure-control point in a pneumatic circuit

FUNCTION 4

Supports plant-air preparation for automation equipment

Matched system components

- clean compressed-air supply
- downstream pneumatic manifold
- pressure gauge or monitored pressure point
- approved mounting and piping hardware

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	clean compressed-air supply
Companion hardware	downstream pneumatic manifold
Field connection	pressure gauge or monitored pressure point
Primary system function	Regulates downstream pneumatic pressure for high-flow service
Controlled acceptance duty	High-flow instrument-air regulation

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Applications and Engineering Context

High-flow instrument-air regulation

Regulates downstream pneumatic pressure for high-flow service

Pneumatic actuator supply stabilization

Uses precision-regulator architecture for stable pressure control

Automation manifold pressure control

Provides a field-adjustable pressure-control point in a pneumatic circuit

Test-stand air-pressure conditioning

Supports plant-air preparation for automation equipment

TECHNICAL NOTE

Install R880-03F with the flow direction shown on the regulator body, clean the connected piping and raise downstream pressure gradually while checking stability and leakage.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	R880-03F / R880-03F recorded
Physical interface	clean compressed-air supply
Companion check	downstream pneumatic manifold
Functional proof	Regulates downstream pneumatic pressure for high-flow service
Application test	High-flow instrument-air regulation

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Engineering Precautions

- 1
- Verify the R880-03F body marking and port arrangement before installation.
- 2
- Depressurize and lock out the upstream air supply before disconnecting piping.
- 3
- Remove pipe debris and sealing-material fragments before assembly.
- 4
- Install the regulator in the documented flow direction without stressing the body.
- 5
- Use compatible fittings and prevent thread sealant from entering the flow path.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
R880-03F	Numatics high-flow precision regulator	Open product page

MANUFACTURER SOURCE RECORD

Numatics R880-03F Official Product Record
ASCO-R880-03F

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