

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.

PRODUCT SNAPSHOT

BRAND
NUMATICS

FAMILY
Numatics Series 80 Precision Regulators

PART
R880-03F

HS CODE
8537101190

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PRODUCT OVERVIEW

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

- 1

Regulates downstream pneumatic pressure for high-flow service
- 2

Uses precision-regulator architecture for stable pressure control
- 3

Provides a field-adjustable pressure-control point in a pneumatic circuit
- 4

Supports plant-air preparation for automation equipment

SYSTEM COMPONENTS

clean compressed-air supply

downstream pneumatic manifold

pressure gauge or monitored pressure point

approved mounting and piping hardware

RELATED PRODUCTS ON APTER POWER

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
Series operating environment	Indoor; outdoor
Series regulator versions	Standard relief; high relief
Control behavior	Continuous bleed / low supply consumption
Series application	Precision pressure control

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Set downstream pressure gradually while observing the connected equipment limit.
- 7 Check joints, gauge connections and adjustment hardware for leakage.
- 8 Record the final pressure setting and verify stable response under operating flow.

ENGINEER FAQ

Q1 Does R880-03F match clean compressed-air supply in a High-flow instrument-air regulation installation?

Verify the complete R880-03F marking, the documented Numatics Series 80 Precision Regulators position and the installed clean compressed-air supply before fitting the assembly.

Q3 Which Numatics Series 80 Precision Regulators records should be captured before removing R880-03F?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with R880-03F before disconnection.

Q5 Which downstream pneumatic manifold condition should be checked when R880-03F reports an abnormal state?

Check the downstream pneumatic manifold supply, seating and connection first, then compare channel diagnostics with the recorded R880-03F baseline.

Q7 What maintenance evidence is required after R880-03F is used for Automation manifold pressure control?

Retain the nameplate record, corrective action, final diagnostics and a controlled automation manifold pressure control functional-test result for R880-03F.

Q2 How should R880-03F be wired when it must regulates downstream pneumatic pressure for high-flow service?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for R880-03F; then continuity-test the affected path.

Q4 What controlled test confirms that R880-03F can uses precision-regulator architecture for stable pressure control?

Apply the approved field or simulated stimulus, observe the Numatics Series 80 Precision Regulators indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can R880-03F be moved directly into Pneumatic actuator supply stabilization without validating approved mounting and piping hardware?

No. Confirm the approved mounting and piping hardware, revision, connection scheme and Numatics Series 80 Precision Regulators configuration before transferring R880-03F to that duty.

Q8 How should R880-03F be returned to service in Test-stand air-pressure conditioning?

Restore power under control, verify provides a field-adjustable pressure-control point in a pneumatic circuit, exercise the intended signal path and release R880-03F only after the Numatics Series 80 Precision Regulators remains in its approved operating state.