

Orion 2C/Orion 3A Precision Pneumatic Cased Controllers

Ideal for use in testing environments, the Orion 2C and Orion 3A pneumatic pressure controllers provide unrivaled performance in a variety of industrial applications.

Both the 2C and 3A utilize an exclusive precision vernier for exact "dial in" of pressure settings. These easy-to-use manifolds feature soft seat construction and an adjustable stop that resists over tightening. Fingertip adjustment provides ultra-fine measurement that eliminates overshoot. Two test ports allow for multiple applications.

The Orion 2C offers up to 3000 psi and vacuum, while the all stainless steel Orion 3A controls up to 10,000 psi and vacuum. Models have a test port located on front as well as an input and vent port on back of unit. Some versions also have an additional test port on the rear. Regardless of the environment, choose the industry-leading Orion for high-quality, high-pressure control.

Applications

- Gas applications
- Operation to 10,000 psi, based on model
- Test stands
- Pressure control applications

Options/Accessories

68859

Additional adjustment and maintenance manual

58499

Replacement Orion 2C, Buna-N O-ring kit

55277

Replacement Orion 3A, Viton O-ring kit



Shown with optional DPDG Gauge 85591 & male quick disconnect 55394



Orion 2C cased version, 89216
Shown with optional quick-disconnect adjustable adapter, 120422

120422 - Working pressure 3000 PSIG
CONDEC DPDG, hands free viewing.



120462 - working pressure 5000 PSIG
CONDEC 3000 or CONDEC 3030, hands free viewing.

Standard Features

- System working pressure:
Orion 2C, Up to 3000 psi
Orion 3A, Up to 10,000 psi based on model
- Orion 2C: Aluminum body, Buna-N o-rings standard
Orion 3A: Stainless steel body, Viton o-rings standard
- Precision patented vernier to precisely "dial in" a selected pressure
- Fingertip closed system pressure adjustment to better than 0.0005 psi
- Soft seat construction and adjustable stop...immune to over tightening
- 2 low-torque, fine micro-metering valves with positive shut off
- 2 test ports, based on version, allow for multiple applications

CONDEC
Genuine Quality, Proven Performance.

230 W Coleman St. · Rice Lake, WI 54868 · USA
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FAX: 715-234-6967 · Website: www.4condec.com

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specifications

Orion 2C

PRESSURE RANGE:

0-3000 psi and vacuum

PROOF PRESSURE:

4000 psi

PRESSURE AND VENT VALVE ORIFICE:

0.032

C_v FACTOR:

0.007

MECHANICAL ROTATION:

3.5 turns, nominal

TORQUE:

Finger tip adjust

VERNIER VOLUME:

0.5 cubic inch, nominal

VERNIER MECHANICAL ROTATION:

16 turns, nominal

ADJUSTABLE SENSITIVITY:

0.0005 psi, minimum

VERNIER TORQUE:

Finger tip adjust to 3000 psi

CONSTRUCTION:

Body: Aluminum, clear anodize

Knobs: Aluminum, black anodize

O-rings: Buna-N standard, others available

Ports:

Orion 2C (cased version, 89216):

- Input port, two test ports and vent port - male 7/16-20 AN4, stainless steel
- All other parts 300 series stainless steel

CASE MATERIAL

16 gage painted steel

ENCLOSURE DIMENSIONS/WEIGHT

6" x 8.2" x 6.2" HWD/6.6 lbs

Note: Add additional 2" front and rear for knobs and fittings.

Orion 3A

PRESSURE RANGE:

0-6000 psi and vacuum (cased version, 89343)

0-10,000 psi and vacuum (cased version, 113949)

PROOF PRESSURE:

9000 psi (cased version, 89343)

11,000 psi (cased version, 113949)

PRESSURE AND VENT VALVE ORIFICE:

0.032

C_v FACTOR:

0.007

MECHANICAL ROTATION:

3.5 turns, nominal

TORQUE:

Finger tip adjust

VERNIER VOLUME:

0.4 cubic inch, nominal

VERNIER MECHANICAL ROTATION:

15 turns, nominal

ADJUSTABLE SENSITIVITY:

0.005 psi, minimum

VERNIER TORQUE:

Finger tip adjust to 10,000 psi

CONSTRUCTION:

Body: 300 series stainless steel

Knobs: Aluminum, black anodize

O-rings: Viton standard, others available

Ports:

Orion 3A (cased version, 89343):

- Input port, test port and vent port - 7/16-20 AN4 males, stainless steel

Orion 3A (cased version, 113949):

- Input port and two test ports- stainless steel fitting for 1/4" OD tubing
- Vent port - stainless steel fitting for 1/8" OD tubing
- All other parts 300 series stainless steel

CASE MATERIAL

16 gage painted steel

ENCLOSURE DIMENSIONS/WEIGHT

6" x 8.2" x 6.2" HWD/12 lbs

Note: Add additional 2" front and rear for knobs and fittings.



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