

Saunders[®] Opti-SET Control Center

The Opti-SET Control Center is a compact valve position monitoring and control unit which directly mounts on the S360 EC range of diaphragm valve actuators.

Key Features include:

- 1 High integrity compact design
- 2 Integral Pneumatic control
- 3 AS-i or DeviceNet protocols
- 4 Proximity or Micro Switch position indication
- 5 Self-setting for ease of installation

As a stand alone unit, or as part of a fieldbus system, the Opti-SET Control Center combines ease of setting and installation with reliable monitoring and control of valve position.

Indication of OPEN and CLOSED valve position is provided by high quality, self-setting micro-switches or inductive PNP



Optional As-i or DeviceNet
Networking Protocol

or NPN proximity switches. A high efficiency integral 3/2 pilot operated spool valve ensures the diaphragm valve opens and closes reliably in less than 2 seconds.

The switches and pilot solenoid valve can be terminated independently via multi-pin connectors, conventional screwed terminals, or linked to a bus interface.

Materials of Construction

Enclosure - Carbon-filled Nylon
Indicator - Polycarbonate
Fasteners - Stainless Steel
Seals - Nitrile rubber (NBR)
Pneumatic Connections - Stainless Steel

Position Feedback

Micro Switches - Gold or Silver contact
Proximity Switches - Inductive PNP or NPN

Pneumatic Control

Function - 3/2 Fail Safe (Manual Override - Standard)
Pilot Operator - 24 DVC - 0.35W (0.1W Optional)
Flow Rate - 120 N/l min at 5.5 bar. g (0.55 MPa)
Supply Pressure - 2.5 to 7.0 bar. g (0.25 - 0.7 MPa)
Air Port Connections - Ø 6.0 mm or ¼ external diameter

Limits of Travel

Stroke Range - Compatible with Saunders® S360 and EC
PES compact actuators DN8 to DN50 (0.25" to 2")

Ingress Protection

With Pneumatic Control - IP66 according to EN 60529
Without Pneumatic Control - IP67 according to EN 60529

Ambient Temperature

0 to 50°C (32°F to 122°F)

Fieldbus Communication

AS-i Interface - Version 2.1 (Version 3.0 compatible) A/B
slave 62 units/master.
DeviceNet - Contact CRANE ChemPharma, Saunders® for
details.

Electrical Connections

Multi-pin connector

- M12 - 8 pin
- M12 - 4 pin (AS-i Interface)
- M12 - 5 pin (DeviceNet)
- ½" UNF - 8 pin
- ½" UNF - 4 pin (AS-i Interface)
- ½" UNF - 5 pin (DeviceNet)

Cable Gland

- M20 x 1.5 (Screw terminals 1.5 mm²)

Conformity

CE - In accordance with EMC 2004/108/EC

Please visit our Web-Based Drawing Library at: www.saundersdrawings.com for current database of drawings in PDF, 2D DWG, and 3D STP formats.

CRANE

CRANE ChemPharma Flow Solutions, Saunders® 9860 Johnson Road
Montgomery, Texas, USA 77316 Tel. +1 936 588 8360 Fax +1 936 588 8302

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417.831.1411
csidesigns.com