

## Process Instrumentation

# Data Sheet

## SIPART PS2 Integral Volume Booster Smart Valve Positioner

### Climate class

Storage	1K5, but -40 ... +80 °C (1K5, but -40 ... +176 °F)
Transport	2K4, but -40 ... +80 °C (2K4, but -40 ... +176 °F)
Operation	4K3, but -30 ... +80 °C (4K3, but -22 ... +176 °F)

### Weight

#### Makrolon

Booster, SA	With PS2 4.0 kg (8.8 lbs) Kit only 2.9 kg (6.5 lbs)
Booster, DA	With PS2 5.3 kg (11.7 lbs) Kit only 4.3 kg (9.4 lbs)

### Weight

#### Explosion proof

Booster, SA	With PS2 7.9 kg (17.4 lbs) Kit only 3.3 kg (7.3 lbs)
Booster, DA	With PS2 9.3 kg (20.5 lbs) Kit only 4.7 kg ( 10.4 lbs)

### Connections

Pneumatic connections- 1/2" NPT  
Female  
  
Gauge Connections: 1/8" NPT

### Auxiliary

#### Power

#### (air supply)

compressed air, carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), and noble gases

#### Pressure

1.4...7 bar (20.3...101.5 psi)

#### Air Quality

to ISO 8573-1

#### Air

#### Consumption

1.2 x 10<sup>-2</sup> Nm<sup>3</sup>/h ( 0.007 SCFM)

### Vibration

#### Resistance

#### Bumping

#### (half-sine)

150 m/s<sup>2</sup> (492 ft/s<sup>2</sup>),  
6ms, 1000 shocks/axis  
Harmonic Oscillations  
compliant to ISA-S75.13

### Gauge

1/4"-18 NPT thread with SS case  
gauges, brass movement scaled  
in: Mpa, bar, psi  
IP66 Rating

### Flow Capacity

Cv 2.0

### Material

Anodized Aluminum Body, Brass, Stainless Steel, Nitrile, Polyester, Teflon, Bronze, Buna-N



### Ordering Information

The booster can be ordered as a kit to add to an existing positioner in the field, or can

ordered as an option on a new unit.

### Kit Numbers

6DR4004-1RK Single Acting for positioner with Makrolon enclosure, 1/2" NPT connections.

6DR4004-2RK Double Acting for positioner with Makrolon enclosure, 1/2" NPT connections.

6DR4004-1RQ Single Acting for positioner with flameproof enclosure, 1/2" NPT connections.

6DR4004-2RQ Double Acting for positioner with flameproof enclosure, 1/2" NPT connections.

### Model Option Codes

R1K Single Acting for positioner with Makrolon enclosure, 1/2" NPT connections.

R2K Double Acting for positioner with Makrolon enclosure, 1/2" NPT connections.

R1Q Single Acting for positioner with flameproof enclosure, 1/2" NPT connections.

R2Q Double Acting for positioner with flameproof enclosure, 1/2" NPT connections.

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