

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 (CO₂), nitrogen (N₂), and noble gases

Pressure

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

Air Quality

to ISO 8573-1

Air

Consumption

1.2 x 10⁻² Nm³/h (0.007 SCFM)

Vibration

Resistance

Bumping

(half-sine)

150 m/s² (492 ft/s²),
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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