



Delta SWAP Single Seat P-Series Replacement Insert

DELTA SWAP sanitary single seat replacement inserts feature the same advanced technology in the areas of seal design, materials and ultimate flexibility applied in our standard DELTA SW4 series. Customers keep their existing P-series or VPS/3A valve bodies, clamps and gaskets, while the remainder of the valve is completely replaced with a slightly modified SW4 insert.

The SWAPP replacement inserts utilize the same seal kits and seat insertion tools as used on comparable SW4 valve sizes and configurations. An additional adapter is required for seat tools used with divert valve sizes 1"-2.5" OD Tube.

Features and Benefits

Controlled compression of seat seal:

The metallic stop ensures defined compression of seat area and minimizes stress and load on seat seals, which in the long run minimizes downtime. In addition, this arrangement ensures smooth product transition in this area.

Wear resistant PTFE/Elastomer shaft seal and shaft bearing arrangement:

This proven combination greatly enhances seal lifetime, while offering the ultimate in sanitary design — no gaps, crevices or o-rings to clean. As a result, CIP processes are improved, while maintenance costs and general downtime are minimized.

Installation and Maintenance Convenience

- Molded elastomer profile seals with identification markings for identification of seals during maintenance

- Only one hexagonal nut outside the product area ensures quick and easy service of the valve
- 3 interchangeable actuator sizes are available in short stroke applications
- Actuator design is reversible between normally-closed and normally-open operation
- Maintenance-free actuator is covered by a 5-year guarantee from APV

Control Units

DELTA SWAPP valves can be delivered with a comprehensive range of the latest DELTA CU3 version of control unit technology.

Standard DELTA CU3's are designed for direct connection to a PLC system, referred to as DELTA CU3 Direct Connect (24VDC or 110VAC). The DELTA CU3 family can also support fieldbus protocols like AS-Interface, Profibus and DeviceNet.

Other Options

In addition, the following options are available:

- Pneumatic stroke limitation (adjustable position stop)
- Manual handle operation
- Shaft seal steam barrier connections
- Proximity switch feedback

Sizes/Configurations

Sizes

OD Tube.....1"- 4" OD

P7 Short Stroke

SWAPP 710 Shut-off Valve Insert

For angle, cross or tangential bodies

APC Body Styles 10, 15, 16, 30, 65, 70, 80, 90

SWAPP 720 Divert Valve Insert

For 3, 4, or 5-port divert bodies

APC Body Styles 20, 22, 24, 26

P8 Long Stroke

SWAPP 810 Shut-off Valve Insert

For angle, cross or tangential bodies

APC Body Styles 10, 15, 30, 65, 70, 80, 90

SWAPP 820 Divert Valve Insert

For 3, 4, or 5-port divert bodies

APC Body Styles 20, 22, 24, 26

Technical Data

Materials

Product wetted parts.....S31603 (AISI 316L)

Non-product wetted parts.....S30400 (AISI 304)

Elastomer options.....EPDM, VMQ (Silicone), FPM
(Viton) and HNBR

Seat seals.....Elastomer

Shaft seals.....PTFE / Elastomer

Operating Temperature (maximum)

EPDM/HNBR.....275°F (135°C) or short time
284°F (140°C)

VMQ (Silicone).....212°F (100°C)

FPM.....212°F (100°C)

(do not use with hot water)

Pressure

Operating (max.).....145 psi/10 bar

Product holding.....Meets or exceeds P-series
product holding pressures for
comparable actuator size and
body configurations

Control air (min.).....87 psi/6 bar

Control air (max.).....116 psi/8 bar

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.apv.com.

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Proximity Switch Feedback



DELTA CU3 Control Units

DeviceNet control unit shown without cover.

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