



Delta SWAP Single Seat APC 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 APC 700 or 800 series valve bodies, clamps and gaskets, while the remainder of the valve is completely replaced with a slightly modified SW4 insert — otherwise known as the SWAP insert.

SWAP “APC” 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

- Elastomer profile seals molded with base part number and year of manufacture for easy identification 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 SWAP valves can be delivered with a comprehensive range of the latest DELTA CU3 version of control unit technology.

Standard DELTA CU are designed for direct connection to a PLC system, referred to as DELTA CU Direct Connect (24VDC or 110VAC). The DELTA CU 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) to convert APC 3741 valve applications
- Manual handle operation
- Shaft seal steam barrier connections
- Proximity switch feedback



Sizes/Configurations

Sizes

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

APC Short Stroke 700, N700, 4000 and N4000 Series

SWAPC 710 Shut-off Valve Insert

For angle, cross or tangential bodies
APC Body Styles 10, 30, 70, 75, 80, 85, 90

SWAPC 720 Divert Valve Insert

For 3-port or 4-port divert bodies
APC Body Styles (1") 20, 24 (includes new upper body)
APC Body Styles (1.5"-4") 20, 22, 24, 26

SWAPC 722 Divert Valve Insert (1" only)

For 4-port divert bodies
APC Body Styles 22, 26 (includes new upper body)

APC Long Stroke 800, N800, 5000 and N5000 Series

SWAPC 810 Shut-off Valve Insert

For angle, cross or tangential bodies
APC Body Styles 10, 30, 70, 75, 80, 85, 90

SWAPC 820 Divert Valve Insert

For 3-port or 4-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 APC
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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DELTA SWAPC 710 2" Shut-off Valve Insert.
Shown with APC shut-off body, APC clamp and APC body gasket



DELTA CU family of control units

Available with DELTA SWAP products in Direct Connect (24VDC or 110VAC) and fieldbus technology (ASI, DeviceNet and Profibus).

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