

On-Line Oil Filtration For Load Tap Changer Compartments

The TP5E is designed for permanent mounting on load tap changers to remove carbon and other contaminants from insulating oil, without interrupting service. This unit helps prevent premature tap changer failure by keeping the dielectric strength of the oil high.

BENEFITS

- Maintains consistent high oil dielectric strength
- Extends maintenance/inspection intervals
- Reduces contact wear and coking
- Extends oil life
- Decreases contact erosion via reduced restrikes during tap changing

APPLICATIONS

The Velcon TP5E is recommended for installation on tap changers that:

- Perform a high number of operations
- Exhibit consistent sludging conditions
- Have a high tap-to-tap voltage difference
- Require frequent attention



FEATURES

The TP5E is a basic pump, motor, and filter system.

The user must supply motor control components of their choice to complete the system.

- Unit comes equipped with drain valve and a filter vessel air vent
- Factory installed drip pan to capture oil during cartridge changeout
- Built-in pressure relief bypass on pump protects filter cartridge from over pressurization when filter is plugged
- All components are factory mounted on a 1/8" steel backpanel with a rain shield to protect motor

SPECIFICATIONS

Mechanical

Flow Rate: 5 gallons per minute.

Pump: Heavy duty self-priming positive displacement pump with built in pressure relief valve.

Piping: Stainless steel tubing, JIC hydraulic fittings. External connections are 1/2" female NPT.

Filter Vessel: Velcon model VF-71E with manual vent and static pressure gauge is epoxy coated internally and externally. No tools required for filter changeout.

Filter: Velcon model FO-718PL1/2 comes installed for removal of carbon contamination. (AC-7181/2 free water removing filter cartridge available at no additional charge. SD-718P3 **Superdri**® dissolved water removing filter cartridge also available.)

Electrical

Motor: 1/2 hp, 115V, 1-phase, 1740 rpm, TEFC.

Power Requirements: 120 VAC, single-phase, 10 amps.

Warranty

All Velcon Systems are under warranty for one year.

Ordering Information

System Part Number: TP5E-1

Weight: 95 lbs.

Shipping Weight: 105 lbs.

Dimensions: Height: 26", Width: 20", Depth: 14"

Recommended Spares

- (6) FO-718PL1/2 Filter Cartridge
- (6) Optional AC-7181/2 free water removing filter cartridge
- (6) Optional SD-718P3 dissolved water removing filter cartridge
- (1) G-1016 Filter Vessel Gasket

Available Options

- 031Y104 AC-7181/2 free water absorbing 0.5 micron filter in place of FO-718PL1/2
- 031Y105 AC-718P3 free water absorbing 0.3 micron filter in place of FO-718PL1/2
- 031Y106 FO-718PLP3 0.3 micron filter in place of FO-718PL1/2
- 031Y102 SD-718P3 dissolved water adsorbing 0.3 micron filter cartridge in place of FO-718PL1/2 (recommended)
- 722Y040 Paddle wheel flow sight indicator



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE:**

COMPANY HEADQUARTERS:
Velcon Filters, LLC
1210 Garden of the Gods Road
Colorado Springs, CO 80907-3410
Phone: 1.800.531.0180 / 1.719.531.5855
Fax: 719.531.5690
e-mail: vfsales@velcon.com
www.velcon.com

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