



TECHNICAL GUIDE

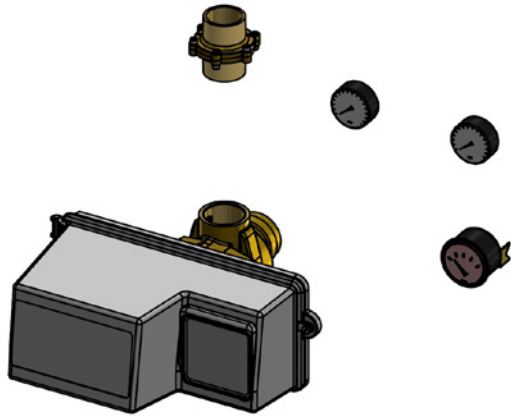
PACKAGED PRODUCTS - COMMERCIAL & INDUSTRIAL SYSTEM SOLUTIONS

3150 FILTRATION KIT





3150 FILTRATION KIT



KIT DESCRIPTION

- All components and accessories included to build various types of filtration systems
- Suitable for a wide range of filter applications and adaptable to various vessel sizes: from 30x72 to 36x72 inches
- Two possible choices: Budget & Premium

BUDGET KIT

TECHNICAL DATA

- Valve : Fleck 3150
- Controller : mechanical 12 days
- Voltage : 230V 50/60 Hz - transformer 24 VAC 50/60 Hz
- IP rating : 22
- Operating pressure : 1,5 – 8,5 bar
- Operating temperature : 2-40 °C
- Regeneration start mode :
 - Timeclock

FEATURES

- DLFC adaptable for different applications
- Mechanical timer, ideal for heavy duty and areas with inconsistent power supply quality, which might damage electronic timers
- Inlet and outlet pressure gauges included
- Possible to combine with 30x72 to 36x72 Structural tanks
- Tank kit includes a riser tube and a star lower screen system
- Auxiliary microswitch

Part number	Description
CI-F-315M12-0000	Budget filtration kit - Fleck 3150 time clock 12 days for 30-36 inches filter
CI-F3072315M120000	Budget filtration kit - Fleck 3150 mechanical with tank 30x72, NBP during backwash
CI-F3672315M120000	Budget filtration kit - Fleck 3150 mechanical with tank 36x72, NBP during backwash

PREMIUM KIT

TECHNICAL DATA

- Valve: Fleck 3150
- Controller: NXT
- Voltage: 230V 50/60 Hz - transformer 24 VAC 50/60 Hz
- IP rating: 22
- Operating pressure: 1,5 – 8,5 bar
- Operating temperature: 2-40 °C
- Regeneration start mode:
 - Timeclock
 - Differential pressure input
 - Volumetric (adding a water meter)

FEATURES

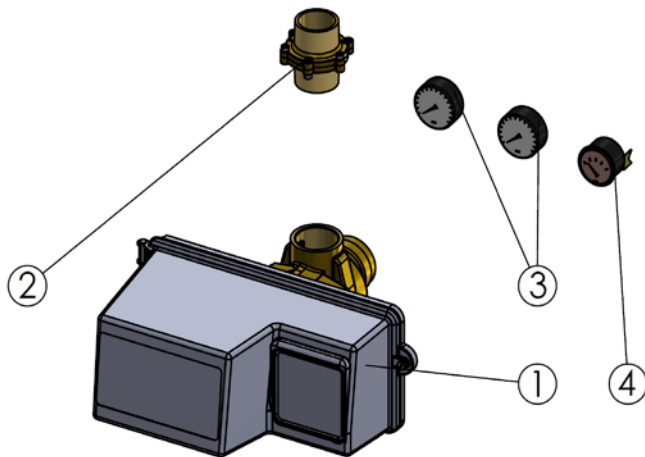
- DLFC adaptable for different applications
- NXT timer, possible to extend to multi-tank
- Differential pressure switch included
- Inlet and outlet pressure gauges included
- Possible to combine with 30x72 to 36x72 Structural tanks
- Tank kit includes a riser tube and a star lower screen system
- Dry contact signal during backwash and fast rinse is fully adjustable

Part number	Description
CI-F-315NXT-0001	Premium filtration kit - Fleck 3150 NXT for 30-36 inches filter with differential pressure switch
CI-F3072315NXT0001	Premium filtration kit - Fleck 3150 NXT with tank 30x72. NBP during backwash with differential pressure switch
CI-F3672315NXT0001	Premium filtration kit - Fleck 3150 NXT with tank 36x72. NBP during backwash with differential pressure switch

PERFORMANCE (service flow rate: 1,3 - 15,5 m³/h)

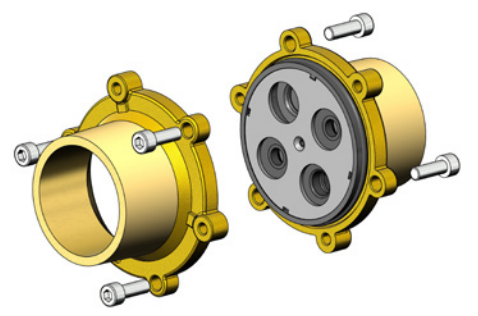
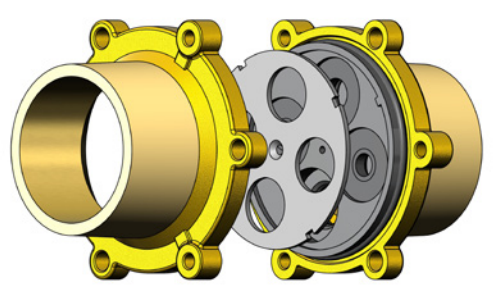
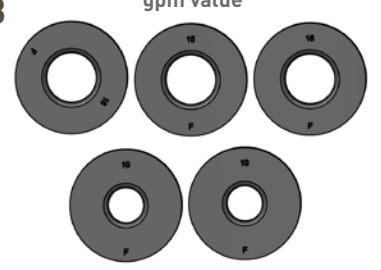

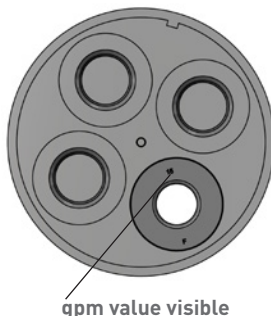
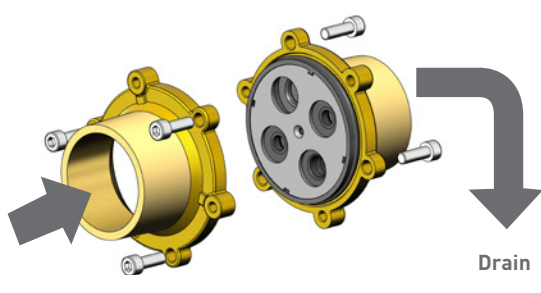
Common applications	30x72	36x72
Service flow Multi-media [m ³ /h]	11,2	15,5
Service flow Antracite [m ³ /h]	6,7	9,3
Service flow GAC Cl [m ³ /h]	3,6	5,0
Service flow GAC organics [m ³ /h]	1,3	1,9
Service flow Birm [m ³ /h]	4,5	6,2
Service flow with sand [m ³ /h] (Best filtration quality)	3,1	4,3
Service flow with sand [m ³ /h] (Good filtration quality)	4,5	6,2
Service flow with sand [m ³ /h] (Average filtration quality)	6,7	9,3
Service flow with sand [m ³ /h] (Rough filtration)	9,0	12,4

EXPLODED VIEW



1. Valve 3150
2. DLFC kit
3. Inlet & outlet pressure gauge
4. Differential pressure switch (only with Premium kits)

DLFC ASSEMBLY & SETTING

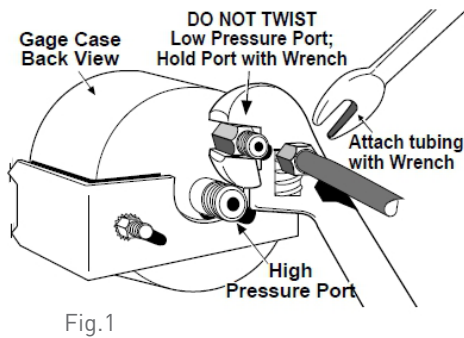
<p>1</p> 	<p>2</p> 
<p>3</p> <p style="text-align: center;">gpm value</p>  <p>Inside the kit there are 14 DLFC washers, 2 washers of 10 gpm, 4 of 15 gpm, 4 of 20 gpm and 4 of 25 gpm. Flow rate is printed on the surface of the washer</p>	<p>4</p>  <p>The DLFC plate have 4 washer seat. Drill the needed amount of holes based on the number of washers to be installed. (see the table below)</p>
<p>5</p>  <p>The DLFC have to be installed with the chamfered side of the washers upfront the water stream flow. Flow indication must be visible after the washer is placed on the seat</p> <p style="text-align: center;">gpm value visible</p>	<p>6</p>  <p style="text-align: center;">Valve drain</p> <p style="text-align: right;">Drain</p>
<p>To be compliant to what is stated on the step 5, the DLFC must be assembled to the valve drain as indicated in the step 6.</p>	

DLFC ASSEMBLY & SETTING

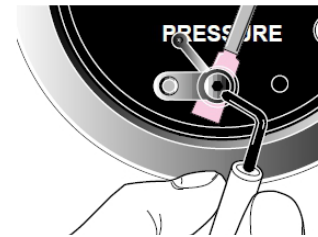
Suggested DLFC settings per media types:

Type of media	30" tank	36" tank
Sand (ca. 40 m/h)	80 gpm (4x20)	N/A
Birm (ca. 30 m/h)	60 gpm (2x20 + 2x10)	80 gpm (20x4)
GAC (ca. 20 m/h)	40 GPM (20 + 20)	55 GPM (3x15 + 10)
Anthracite & multi-media (ca. 35 m/h)	70 GPM (3x20 + 10)	95 GPM (25x3 + 20)

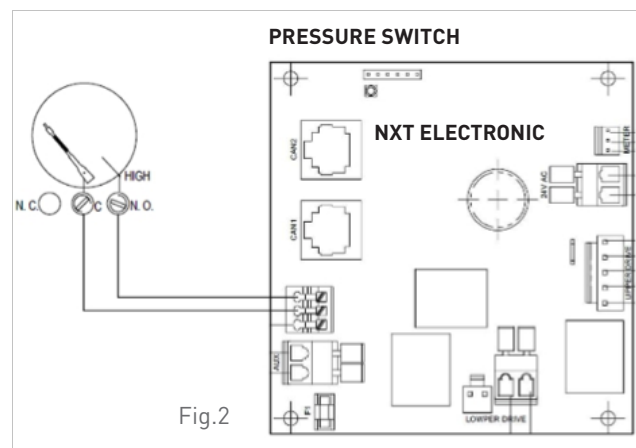
CONNECTION OF THE DIFFERENTIAL PRESSURE SWITCH



- The "High" pressure port (center mounted) is piped to the Inlet side of the filter. The "Low" pressure port (top center mounted) is piped to the Outlet side of the filter.



- You MUST use a second wrench on the low pressure port when tightening tube fittings (see Fig. 1)
- Notice that a wrench is used for holding the low pressure port while a second wrench will tighten the pressure tubing/hose fitting onto the port.
- All contacts are set using a 1/16 inch hex wrench. Rotate the contact until you reach the wanted setting. Set the contact slightly below the desired maximum differential pressure. Default setting is 2 bar.
- Connect the switch to the NXT (see Fig. 2)



Note: Performance and flow settings advised by Pentair are calculated upon common media manufactures data sheets. We advise to always check with the filter media supplier the service and backwash velocities to use, and contact Pentair technical support whenever is needed to adapt the kit to different values from the ones specified in this document.

techsupport.CI@pentair.com



www.pentairaquaeurope.com