

# Longwall Filter | LW60

Patent # D600,775

## Overcome Application Obstacles Caused by High Pump

Designed specifically for full flow high efficiency pressure filtration applications, the LW60 was developed to overcome obstacles caused by higher pump flows. The LW60's high efficiency full flow design removes all contaminants, extends the metal mesh element's life, and, most importantly, protects the valves on the longwall shields.

The patented LW60 consists of a single filter housing aligned horizontally with the fluid supply. By allowing straight-through flow, the design maximizes efficiency, minimizes pressure drop, and can easily clear any vertical restrictions commonly associated in mines. The filter is supplied with two-inch BSPP ports, easily adaptable to Super Stecko fittings commonly used underground.

The steel housing of the 300 gpm LW60 includes a stainless steel bypass valve that ensures smooth integration with the 95/5 fluid utilized in longwall circuits. The LW60 has an indicator integrated into the housing's design, alerting miners when the element needs to be cleaned.

This filter features a unique proprietary synthetic media designed specifically for the mining industry, Excellement-MD™, and is offered in Beta<sub>200</sub> >3µm, 5µm, 10µm, and 25µm absolute efficiency options. This level of filtration is required to protect the valves at the shields and is not achievable using alternative wire mesh elements because of their lack of absolute ratings.

## Features

- Horizontal alignment allows straight-through flow, maximizing efficiency and minimizing pressure drop
- Proprietary synthetic media designed specifically for the mining industry, Excellement-MD™, provides level of filtration not achievable using alternative wire mesh elements because of their lack of absolute ratings
- Two-inch BSPP ports are easily adaptable to Super Stecko fittings commonly used underground
- Stainless steel bypass valve that ensures smooth integration with 95/5 fluid



## Specifications

|                                       |   |
|---------------------------------------|---|
| <b>Flow Rate:</b>                     | Up to 300 gpm (1135 L/min) for use with 95/5 fluids                                       |
| <b>Max. Operating Pressure:</b>       | 6,000 psi (400 bar)   |
| <b>Min. Yield Pressure:</b>           | 18,000 psi (1240 bar)   |
| <b>Rated Fatigue Pressure:</b>        | 4500 psi (310 bar)  |
| <b>Temp. Range:</b>                   | -20°F to 225°F<br>(-29°C to 107°C)  |
| <b>Bypass Setting:</b>                | Cracking: 50 psi (3.4 bar)<br>LWN60 non-bypassing model available with high crush element |
| <b>Porting Cap &amp; Housing Cap:</b> | Steel   |
| <b>Element Change Clearance:</b>      | 34" (864 mm)  |
| <b>Weight:</b>                        | 550 lb (250 kg)   |

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