PLACKA®

AIR FILTER REGULATOR LUBRICATOR

Your Air-actuated Instrument and Equipment work at their best for a long period when you feed with clean dry air at a constant prescribed pressure. PLACKA FRL -Series Filter Regulator Lubricator removes completely the moisture and dust particles, and provides the exact pressure constantly at varying air demands as well as to distribute oil to the moving parts to reduce friction. Its compactness and highly accurate performance for a long period with minimum of maintenance make for an optimum compromise between the ideal and the practical, consistent with end-use.

SALIENT FEATURES

- Longer life assured as the materials used are selected for their corrosion resistance and long wear.
- Negligible pressure drop due to high porosity ratio of the filter. The filter is reusable and has a high impact strength.
- In addition to solid particles, the unit extracts a high percentage of water thus ensuring trouble-free service even in the most adverse conditions.
- Built in relief ensures rapid response to circuit-induced pressure changes.
- Simple, versatile built in mounting arrangements by bolts and clamps. For panel mounting, tapped holes are provided.

OPERATION

An FRL unit comprises a filter (F), regulator (R) and lubricator (L). These individual units can combine into one unit to ensure clean air in a pneumatic system. It is also possible to use each component individually. A proper air filter, regulator and lubricator unit in a pneumatic system provides higher reliability of the components downstream, reduced power wastage from over-pressurisation and increased component lifetime. The three components in an FRL unit work together.

Filters: Filters remove water, dirt and other harmful debris from an air system, which is often the first step in improving air quality.

Regulators: The second step in an FRL system is a regulator. Regulators adjust and control the air pressure of a system to ensure that down-line components do not exceed their maximum operating pressures.

Lubricators: Lubricators reduce the internal friction in air tools by releasing a controlled oil mist into the compressed air. This is often done last and right before the component that needs lubrication.

AIR FILTER REGULATOR

The primary air through the inlet port, passes through the filter element, leaving down the contaminants in the bowl. When the knob is adjusted suitably, the spring acts on the diaphragm which in turn actuales the main valve to allow the pure secondary air at a particular pressure to the outlet. The main valve is supported between the relief valve and the main valve spring, eliminating the need for stem guiding. Toggle action between main valve and relief valve completely eliminates the alignment problems and thus, erratic output pressure.

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PF+R+L Series F+R+L Combination

Model : PF+R+L - MINI/MIDI/MAXI
End Connection Size
MINI : 1/4"
MIDI - 3/8', 1/2'
MAXI : 3/4", 1'
Max Working Pressure : 16kg / sg.cm
Range of Adjustable Pressure : 0.5 - 16 kg / sq.cm

PFR+L Series Air Filter Combination (FR+L)

Model : PFR+L - MINI/MIDI/MAXI
End Connection Size
MINI : 1/4"
MIDI - 3/8', 1/2'
MAXI : 3/4", 1'
Max Working Pressure : 16kg / sg.cm
Range of Adjustable Pressure : 0.5 - 16 kg / sq.cm

PFR Series Filter & Regulator

Model : PFR - MINI/MIDI/MAXI
End Connection Size
MINI : 1/4"
MIDI - 3/8', 1/2'
MAXI : 3/4", 1'
Max Working Pressure : 16kg / sg.cm
Range of Adjustable Pressure : 0.5 - 16 kg / sq.cm

PF SERIES FILTER

Model : PF - MINI/MIDI/MAXI
End Connection Size
MINI : 1/4"
MIDI - 3/8', 1/2'
MAXI : 3/4", 1'
Max Working Pressure : 16kg / sq.cm

PR Series Pressure Regulator

Model : PR - MINI/MIDI/MAXI
End Connection Size
MINI : 1/4"
MIDI - 3/8', 1/2'
MAXI : 3/4", 1'
Max Working Pressure : 16kg / sg.cm
Range of Adjustable Pressure : 0.5 - 16 kg / sq.cm

PL Series Lubricator

Model : PL - MINI/MIDI/MAXI
End Connection Size
MINI : 1/4"
MIDI - 3/8', 1/2'
MAXI : 3/4", 1'
Max Working Pressure : 16kg / sq.cm