PSI
POLYMER SYSTEMS INC.

Get More from Your Process

In-Line Filter (ILF)

The In-Line Filter (ILF) is a convenient, low-cost side-access melt filter for batch runs. Screen changes can be accomplished in as little as five minutes and do not require line disassembly. Used in a broad range of applications including filtration for gels in film and small carbon particulate in optical grade polymers, these compact filters have no moving parts and can be applied to extruders as small as 2 inches in diameter while easily accommodating the output of a 6-inch extruder. Cylindrical filter elements, which can be wire cloth or pleat offer greater filter area for longer runtimes between screen changes or otherwise to reduce pressure drop when filtering to fine micron levels.

Features

- Long-life, compact design
- Cylindrical long-run filter elements
- Accepts wire cloth or pleat filters
- No moving parts or seals to wear out
- No line disassembly for filter change
- Tool steel construction
- Bolted, leak-tight connection
- No hang-up areas
- Low maintenance

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Options

- Integral lever-operated divert valve
- Internal fluid heat/cool
- Stainless steel, H13 or Inconel construction
- Pleated filter elements for fine micron filtration
- Special heater voltage
- Chrome or nickel plating
- High temperature to 850°F [454°C]

Accessories

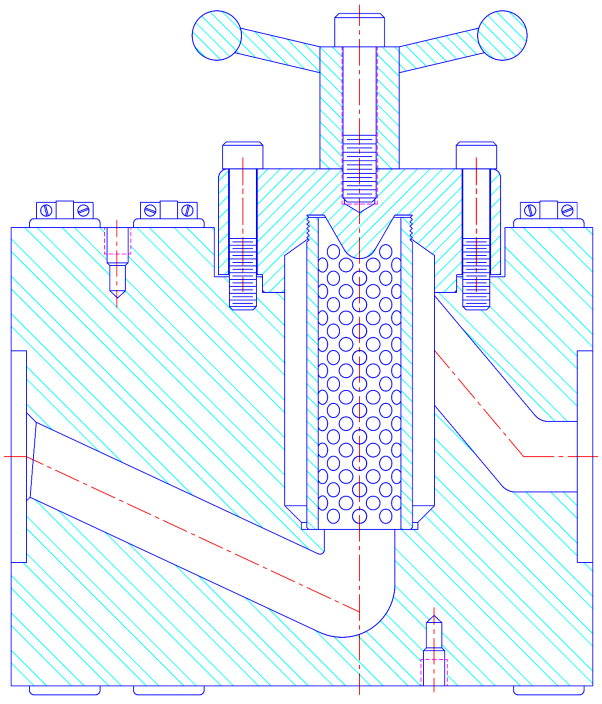
- Spare filter assembly
- 18V Screen Cut-off Tool
- Adaptors
- Heat control
- Pressure Instruments

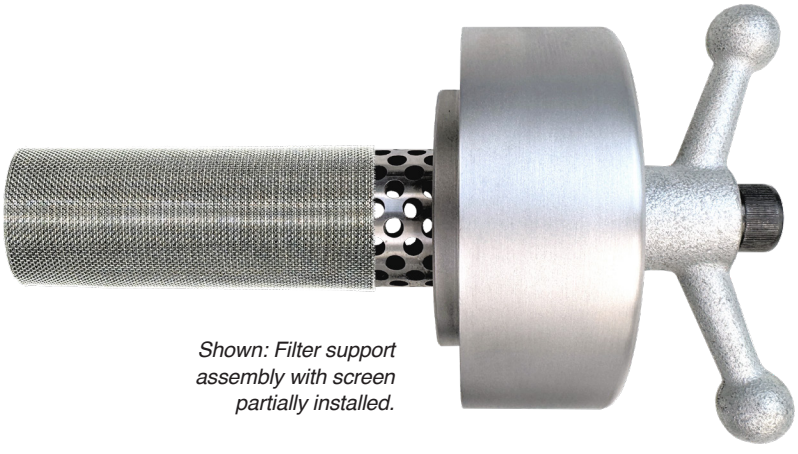
Technical

Specifications	Standard
Temperature °F [°C]	Up to 650 [343]
Max oper. pressure PSI [bar]	max. 10,000 [670]
Control zones (housing)	One (1)
Heating	Electric/Fluid

Model	Rate		Filter Area		Screen Dimenions Diameter x Length	Diameter x Length	Heater	Weight	
	lb/h	kg/h	In2	cm2	inch	mm	kW	lb	Kg
ILF-20	1,250	567	20	129	1.512 x 4.270	38.405 x 108.455	2.0	70	32
ILF-40	2,500	1,134	40	258	2.262 x 5.618	57.455 x 142.697	3.5	140	64
ILF-80	5,000	2,268	80	516	3.512 x 7.375	89.205 x 187.325	9.0	476	216

* Throughput values may change depending on material, viscosity and filtration level.





Shown: Filter support assembly with screen partially installed.

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