



Divert Valve (DIV) • Inline Filter (ILF) Uniflo Static Mixer (USM)

"All PSI products and components are proudly designed and manufactured in the USA."



Features Include

- Compact / low profile design
- Rugged design provides safe, easy operation
- All parts manufactured to ISO-9002 standards
- Leak-free operation to 10,000 psi
- Electric or jacketed heating

PSI manufactures Divert Valves to aid in redirecting the flow of the melt stream. Divert Valves perform a variety of functions for the polymer, food, hot-melt and chemical industries. Multi-port configurations for co-extrusion (3 way/4 way) and turn-key systems are also available.

Our Inline Filters provide a cost effective filtration solution for a variety of thermoplastics and processes. The Inline Filter features a cylindrical filter element that allows the equivalent of large diameter screen packs to be contained within the compact unit. The rugged design of the Inline filter allows leak-free operation to 10,000 psi and 3,000 psi across the filter.

Our Uniflo Mixers allow continuous mixing and blending for a variety of materials by dividing the melt stream continually. The principle of operation is a helical mixing element, containing alternating elements or fins, which provide complete radial and axial blending for any combination of liquids, gases and polymers with minimal pressure drop.

DIV Benefits

- Quickly diverts melt stream when required
- Allows for quick and easy change over
- Can process highly corrosive and high pressure applications

ILF Benefits

- Filters out contaminants
- Reduces frequency of line shutdown and increases production
- Filters can be changed without removing dies or process equipment

USM Benefits

- Allows complete mixing and blending of most liquids, gases, polymers and powders
- Removable mixing element ensures easy maintenance

Applications

- Most polymers
- Sheet
- High pressures
- Pipe and profile
- Compounding
- Wire and cable
- Tubing
- Co-extrusion
- Textiles (fibers and nonwovens)
- EVA, hot melt adhesive and PSA

Exclusive applications for USM

- Mixing and blending
- Foam Extrusion
- Extrusion of color and additives
- Temperature uniformity
- Laminar and turbulent blending

Technical Data For Divert Valve

Model DIV	Extruder Output (lbs/hr) (kg/hr)	Weight (lbs) (kg)
10	10-1,250 4.5-567	75 34
15	1,250-2,500 567-1,134	285 129
20	2,500-5,500 1,134-2,495	375 170
30	4,000-8,000 1,814-3,629	580 263
40	8,000-15,000 3,629-6,804	1,430 649

Technical Data For Inline Filter

Model ILF	Extruder Output (lbs/hr) (kg/hr)	Filter Area (in ²) (cm ²)	Weight (lbs) (kg)
20	100-1,200 45-544	20 129	65 29
40	1,200-2,500 544-1,134	40 258	200 91

For larger sizes and special applications contact our PSI sales office

Technical Data For Uniflo Static Mixer

Model USM 6 Element	Extruder Output (lbs/hr) (kg/hr)	Model USM 9 Element	Extruder Output (lbs/hr) (kg/hr)	Weight (lbs) (kg)
6-1.0	50-800 23-363	9-1.0	50-200 23-91	20 9.1
6-1.25	100-1,750 45-794	9-1.25	50-450 23-204	45 20
6-1.5	200-2,500 91-1,134	9-1.5	100-850 45-386	50 23
6-2.0	500-4,000 227-1,814	9-2.0	300-2,000 136-907	100 45
6-2.5	600-6,500 272-2,948	9-2.5	800-2,500 363-1,134	225 102
6-3.0	1,000-10,000 454-4,536	9-3.0	1,000-5,000 454-2,268	320 145
6-4.0	Contact PSI Sales Office	9-4.0	Contact PSI Sales Office	725 329