



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

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



Features

- 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.

Inline Filters provide a cost effective filtration solution for a variety of thermoplastics and processes. The In-Line 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 In-Line filter allows leak-free operation to 10,000 psi and 3,000 psi across the filter.

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

Quick 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 minimal maintenance and quick material change

Applications

- Most all 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 - Divert Valve

Model DIV	Extruder Output lbs/hr kg/hr	Weight lbs kg
1.0	10-1,250 5-570	105 48
1.5	1,250-2,500 570-1,135	185 84
2.0	2,500-5,500 1,135-2,500	222 101
3.0	4,000-8,000 1,815-3,630	300 136
4.0	8,000-15,000 3,630-6,800	550 250

Technical Data - Inline Filter

Model ILF	Extruder Output lbs/hr kg/hr	Filter Area inch ² cm ²	Weight lbs kg
20	100-1,200 45-545	20 130	70 32
40	1,200-2,500 545-1,135	40 260	140 64

For larger sizes and special applications contact our PSI sales office

Technical Data - 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 25-365	9-1.0	50-200 25-90	20 10
6-1.25	100-1,750 45-800	9-1.25	50-450 35-200	45 20
6-1.5	200-2,500 90-1,135	9-1.5	100-850 45-390	50 25
6-2.0	500-4,000 230-1,815	9-2.0	300-2,000 135-910	100 45
6-2.5	600-6,500 270-3,000	9-2.5	800-2,500 365-1,135	225 100
6-3.0	1,000-10,000 455-4,550	9-3.0	1,000-5,000 455-2,270	320 145
6-4.0	Contact PSI Sales Office	9-4.0	Contact PSI Sales Office	725 330

