



Discontinuous Screen Changer (DSC) Discontinuous Screen Changer Oval (DSCO)

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



Shown: DSC-148

Features

- Operating pressure to 10,000 psi {690 bar}
- Process temperatures up to 650°F {343°C}
- All parts manufactured to ISO-9002 standards
- Breaker plate open area largest in the industry
- Field interchangeable pistons and housings
- No seals design - Guaranteed leak-free

Discontinuous Screen Changers are suited to processes that can endure a very short interruption of the melt flow. The compact design permits simple adaptation and flexible installation. The screen change procedure is performed when the extruder is stopped.

The DSC is an automated alternative to the Manual Screen Changer or In-line filtration. PSI Discontinuous Screen Changers can be designed for extruder screw pull-through. PSI guarantees leak-free operation up to 10,000 psi and 650° F.

Optional proprietary Low Viscosity DSC capable of processing 1cps to 100,000cps and a maximum operating temperature up to 260° C (500° F).

Benefits

Single melt filtration bore. Eliminates degradation dragged online by an off-line filter cavity

Streamlined flow channel reduces the potential for material hangup

Oval screen option offers 45% to 70% more filter area as compared to standard round screens

Absence of wear surfaces reduces maintenance and prolongs component life

Ideal for larger lines where a hand operated manual screen changer is not practical

Easier access and less interference for the operator

Applications

- Most all polymers
- Sheet
- Coating
- Pipe and profile
- Compounding
- Wire and cable
- Tubing
- Lab lines
- Textiles (fibers and nonwovens)
- EVA, hot melt adhesive and PSA
- Pelletizing (strand and underwater)
- High pressure
- Blown film and cast film
- Degradable materials

Technical Data - Discontinuous Screen Changer

Model DSC	Extruder Output lbs/hr kg/hr	Screen Diameter inch mm	Filter Area inch ² cm ²	Weight lbs kg
058	100-375 45-170	2.29 58	4.12 26.58	150 70
076	250-650 110-300	3.00 76	7.07 45.60	269 122
096	425-1,000 200-455	3.79 96	11.28 72.77	269 122
116	600-1,500 270-680	4.58 116	16.47 106.25	515 234
125	800-2,000 350-900	4.93 125	19.09 123.15	650 295
148	1,000-2,400 455-1,090	5.84 148	26.76 172.65	1,325 601
176	1,400-3,500 635-1,590	6.94 176	37.83 244.10	1,335 606
200	1,750-4,500 800-2,040	7.88 200	48.73 314.40	2,025 919
230	2,250-6,000 1,020-2,725	9.07 230	64.53 416.32	2,750 1,248

For larger sizes and special applications contact our PSI sales office

Technical Data - Discontinuous Screen Changer Oval

Model DSCO	Extruder Output lbs/hr kg/hr	Screen Diameter inch mm	Filter Area inch ² cm ²	Weight (lbs) (kg)
125/170	950-2,400 430-1,090	4.92 x 6.69 125 x 170	27.74 179.00	715 325
145/230	1,550-3,300 700-1,500	5.71 x 9.06 145 x 230	44.70 288.40	855 388
175/270	2,400-5,700 1,090-2,590	6.87 x 10.63 175 x 270	63.05 406.77	1,090 494
197/300	5,300-9,700 2,400-4,400	7.87 x 11.81 197 x 300	79.69 514.12	2,250 1,020
230/310	6,600-13,200 3,000-6,000	9.06 x 12.20 230 x 310	92.92 599.50	3,175 1,440
250/345	8,800-22,000 4,000-10,000	9.84 x 13.58 250 x 345	112.89 728.32	5,240 2,380

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