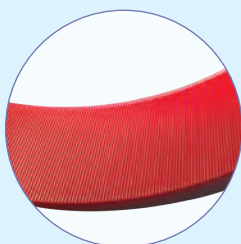


# Disclean® PL Filter - Classic

3D Innovation for Fine Filtration



## Features & Benefits



### Radially Convergent Grooved Discs

Disclean® element with strong, precision engineered and radially grooved disc to provide fine three dimensional filtration. (Flow direction Out to In).



### Easy for Maintenance

Strong and smooth opening, drip-tight SS clamp closure.



### Angular or Straight Outlet Option Available

Optional two outlet positions facilitates installation in angular or straight fashion



### Equipped with Pressure Check Assembly

To check pressure from inlet side and outlet side, additional Pressure check assembly provided.



### Various Connection Options Available

Threaded connection, Flanged connection or Easy Fix™ connection available



### Draining Facility Available

Additional Drain Valve provided to remove dirt from filter

# Disclean® PL - Classic

## Additional Features

- Manufactured from special plastic alloy material which gives very high stiffness, toughness, heat and impact resistance.
- Excellent chemical and weather resistance.
- Ribbed body construction, designed to withstand water hammer and surges in the pipe line.
- Maximum operating pressure 6 kg/cm<sup>2</sup> (85.2 psi).
- Available in standard filtration 130 micron. (Other mesh sizes are available On demand)
- Available in 2" (20 & 25 m<sup>3</sup>/hr), 2 ½" (30 m<sup>3</sup>/hr) and 3" (40 & 50 m<sup>3</sup>/hr) inlet & outlet connection sizes.
- On demand, Disclean - PL can also be supplied with automatic flushing arrangement.

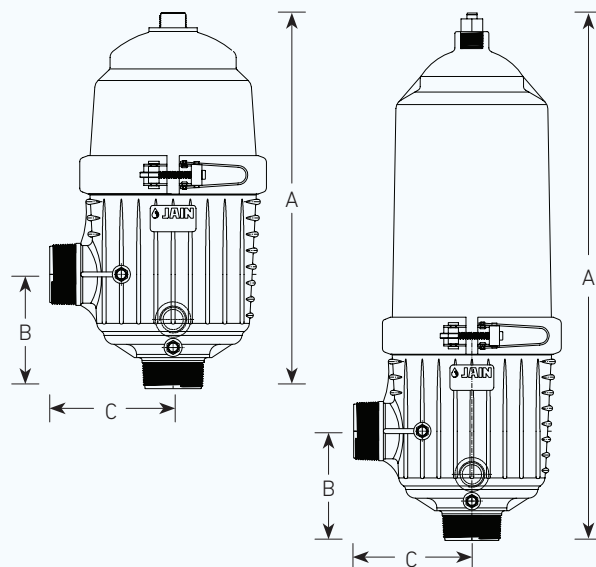
## Applications

- Used for water filtration of drip & landscape irrigation system
- Suitable to use where precision filtration is required like reclaimed water application.

## Technical Specifications

Nominal Flow Rate		Inlet/Outlet Connection	Filtration Area	Gross Weight	
m <sup>3</sup> /hr	gpm	inch	m <sup>2</sup>	kg	lbs
20	88	2"	0.95	3.0	6.6
25	110	2"	0.126	3.70	8.1
30	132	2½"	0.126	3.5	7.7
40	176	2½"	0.126	3.5	7.7
50	220	3"	0.126	3.5	7.7

## Dimensional Specifications



Nominal Flow Rate		A	B	C
m <sup>3</sup> /hr	gpm	mm	mm	mm
20	88	375	115	117
25	110	490	260	130
30	132	590	260	130
40	176	560	100	145
50	220	570	100	145

## Clean Pressure Drop Chart

Size inch	Flow m <sup>3</sup> /hr	K	m	Pressure Drop(kg/cm <sup>2</sup> ) w.r.t. Flow (m <sup>3</sup> /hr)												
				5	10	15	20	25	30	40	50	60	70	80	90	100
2"	20	0.005	0.11	0.01	0.01	0.03	0.04	0.08	0.13	0.4	1.20	-	-	-	-	-
2"	25	0.02	0.085	0.03	0.05	0.07	0.11	0.17	0.26	0.61	1.44	-	-	-	-	-
2.5"	30	0.006	0.075	0.01	0.01	0.02	0.03	0.04	0.05	0.11	0.24	0.51	1.09	-	-	-
2½"	40	0.031	0.035	0.04	0.04	0.05	0.06	0.07	0.09	0.12	0.18	0.25	0.35	0.50	0.71	1.01
3"	50	0.036	0.037	0.04	0.05	0.06	0.08	0.09	0.11	0.16	0.24	0.34	0.50	0.73	1.06	1.53

Governing equation,  $h = k e^{m \chi}$ ;  $h$  = Pressure drop (kg/cm<sup>2</sup>);  $\chi$  = Flow rate (m<sup>3</sup>/hr);  $K$  = Pressure drop constant;  $m$  = Flow constant (for  $k$  &  $m$  value refer table)

Note: Filters are tested under standard laboratory test conditions.

