



The connection you can trust.

Disk Filters

Technical Specifications Sheet

Philmac compact water filters are suitable for irrigation, rural, commercial and domestic filtration.

Features and Benefits

- > Maximum operating pressure
Small, large and special - 600 kPa [87psi]
1½" and 2" - 800 kPa [116psi]
- > Available with disk, screen or hydrocyclone screen elements and a range of filtration degrees.
- > Hyrdacyclone screen filters include flush valves.
- > Nitrile rubber O-rings for sealing performance.
- > Efficient filtration.
- > Easy to clean.
- > UV and impact resistant.



Small
¾" or 1" [Disk only]



Large
¾" or 1" [Disk or screen]



Special
1" or 1¼" [Disk or screen]

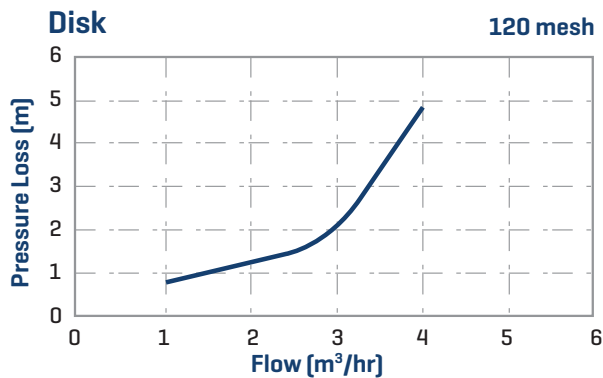


1½"
Screen or Hydrocyclone screen

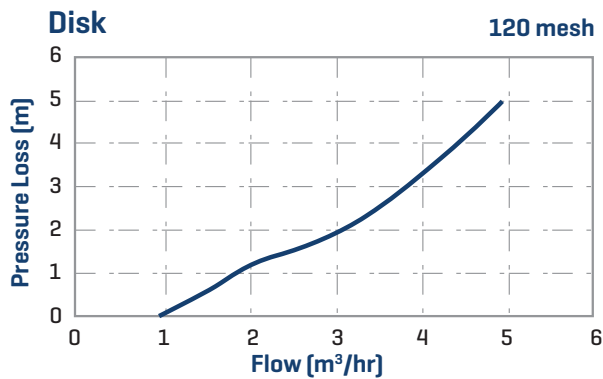


2"
Screen or Hydrocyclone screen

Filter Pressure Loss



Small Filter 3/4"			
Disk 600 kPa maximum			
		130 micron - 120 mesh	
m3/h	gpm	m	psi
1	3.7	0.6	0.87
2	7.3	1.2	1.74
3	11	1.9	2.76
4	14.7	4.5	6.53



Small Filter 1"			
Disk 600 kPa maximum			
		130 micron - 120 mesh	
m3/h	gpm	m	psi
1	3.7	0	0.00
2	7.3	1.1	1.60
3	11	1.7	2.47
4	14.7	3.1	4.50
5	18.3	4.9	7.11

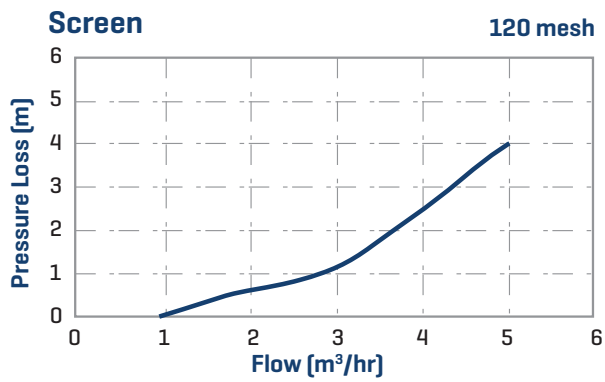
Disk Filters

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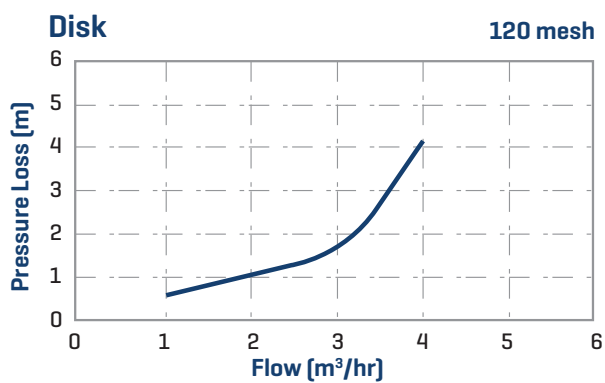


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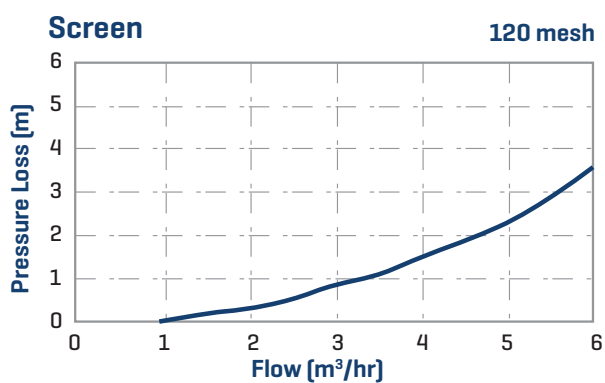
Filter Pressure Loss



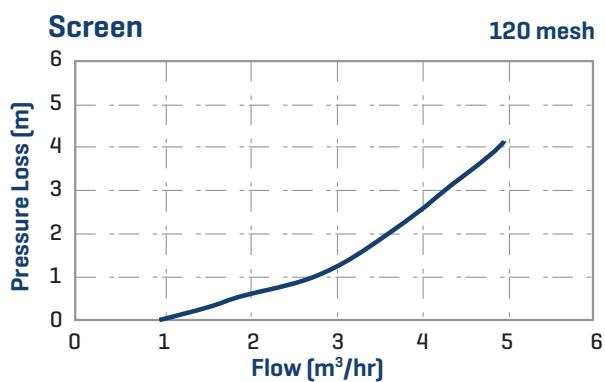
Large Filter 3/4"									
Screen 600 kPa maximum									
		250 micron 60 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
1	3.7	0	0.0	0	0.0	0	0.0	0.3	0.4
2	7.3	0.4	0.6	0.5	0.7	0.6	0.9	0.8	1.2
3	11	0.7	1.0	0.9	1.3	1.1	1.6	1.2	1.7
4	14.7	1.9	2.8	2.2	3.2	2.4	3.5	2.7	3.9
5	18.3	3.1	4.5	3.6	5.2	4.0	5.8	4.5	6.5



Large Filter 3/4"					
Disk 600 kPa maximum					
		130 micron - 120 mesh		100 micron - 150 mesh	
m3/h	gpm	m	psi	m	psi
1	3.7	0.6	0.9	0.7	1.02
2	7.3	1.1	1.6	1.2	1.74
3	11	1.7	2.5	2.7	3.92
4	14.7	4.2	6.1	4.6	6.67
5	18.3	-	-	-	-



Large Filter 1"									
Screen 600 kPa maximum									
		250 micron 60 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
1	3.7	0	0.00	0	0.00	0	0.00	0.2	0.29
2	7.3	0.2	0.29	0.3	0.44	0.4	0.58	0.5	0.73
3	11	0.5	0.73	0.7	1.02	0.8	1.16	0.9	1.31
4	14.7	1	1.45	1.2	1.74	1.4	2.03	1.6	2.32
5	18.3	1.6	2.32	2	2.90	2.3	3.34	2.6	3.77
6	22	2.4	3.48	2.9	4.21	3.6	5.22	4.1	5.95



Large Filter 1"					
Disk 600 kPa maximum					
		130 micron - 120 mesh		100 micron - 50 mesh	
m3/h	gpm	m	psi	m	psi
1	3.7	0	0.00	0.2	0.29
2	7.3	0.6	0.87	0.8	1.10
3	11	1.2	1.74	1.5	2.10
4	14.7	2.5	3.63	2.8	4.06
5	18.3	4.1	5.95	4.5	6.53
6	22	-	-	-	-

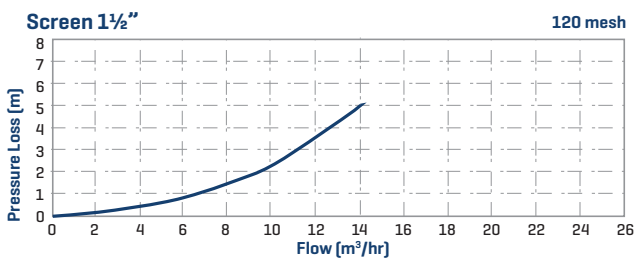
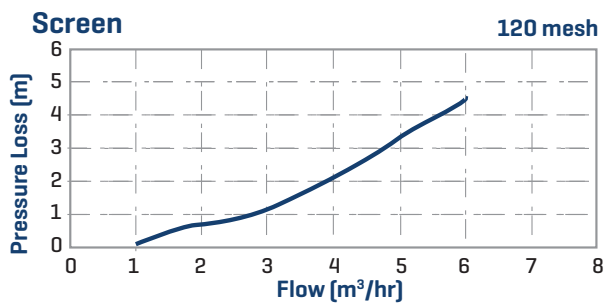
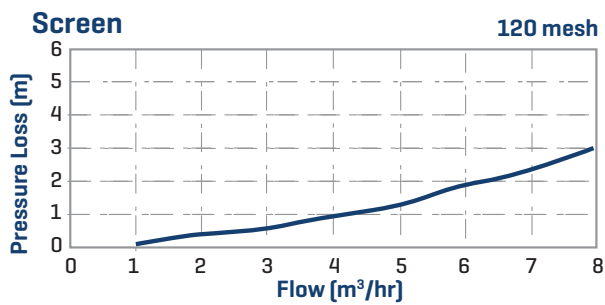
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Technical Specifications Sheet

Filter Pressure Loss



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Special Filter 1" & 1¼"									
Screen 600 kPa maximum									
		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh		85 micron 130 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
1	3.7	0	0.00	0	0.00	0	0.00	0	0.00
2	7.3	0.2	0.29	0.3	0.44	0.4	0.58	0.5	0.73
3	11	0.4	0.58	0.5	0.73	0.9	1.31	1.1	1.60
4	14.7	0.7	1.02	0.9	1.31	1.5	2.18	1.8	2.61
5	18.3	1	1.45	1.3	1.89	2.3	3.34	2.6	3.77
6	22	1.4	2.03	1.8	2.61	3.4	4.93	3.8	5.51
7	25.7	1.9	2.76	2.3	3.34	4.7	6.82	5.2	7.54
8	29.3	2.5	3.63	3	4.35	-	-	-	-

Special Filter 1" & 1¼"			
Disk 600 kPa maximum			
		130 micron - 120 mesh	
m3/h	gpm	m	psi
1	3.7	0	0.00
2	7.3	0.7	1.02
3	11	1.1	1.60
4	14.7	2.1	3.05
5	11	3.3	4.79
6	14.7	4.5	6.53

Special Filter 1½"									
Screen 800 kPa maximum									
		250 micron 30 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
0.5	1.8	0	0.00	0	0.00	0.1	0.15	0.2	0.29
2.0	7.3	0.0	0.00	0.1	0.15	0.2	0.29	0.4	0.58
3.5	12.8	0.1	0.15	0.3	0.44	0.4	0.58	0.7	1.02
5.0	18.3	0.2	0.29	0.4	0.58	0.7	1.02	1.0	1.45
6.5	23.8	0.4	0.58	0.7	1.02	1.1	1.60	1.4	2.03
8.0	29.3	0.6	0.87	1.0	1.45	1.5	2.18	1.9	2.76
9.5	34.8	1.1	1.6	1.6	2.32	2.1	3.05	2.6	3.77
11.0	40.3	1.8	2.61	2.3	3.34	2.9	4.21	3.5	5.08
12.5	45.8	2.7	3.92	3.2	4.64	3.8	5.51	4.5	6.53
14.0	51.3	3.8	5.51	4.3	6.24	5.0	7.25	5.7	8.27

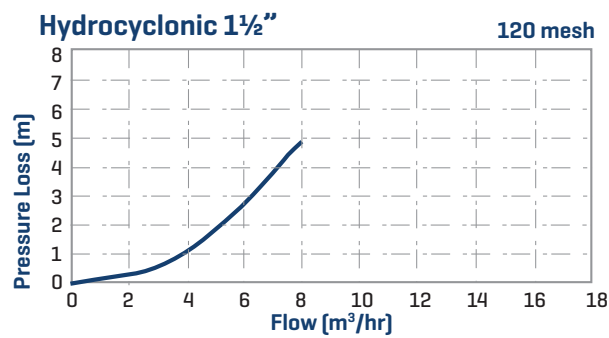
Disk Filters

Technical Specifications Sheet

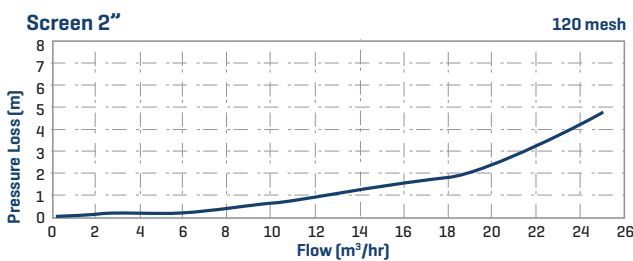
Filter Pressure Loss



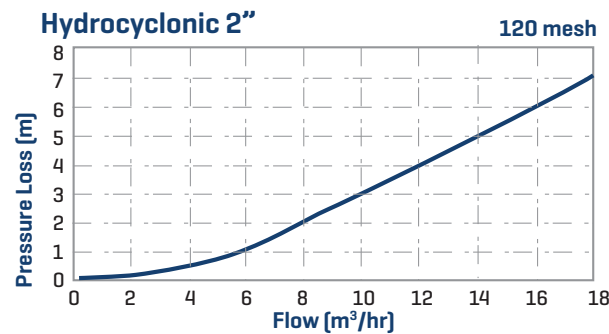
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Filter 1½"									
Hydrocyclonic Screen 800 kPa maximum									
		250 micron 60 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
0.5	1.8	0.0	0.00	0.0	0.00	0.0	0.00	0.1	1.50
2.0	7.3	0.2	0.29	0.3	0.44	0.3	0.44	0.4	0.58
3.5	12.8	0.6	0.87	0.8	1.16	1.0	1.45	1.1	1.60
5.0	18.3	1.3	1.89	1.6	2.32	1.8	2.61	2.0	2.90
6.5	23.8	2.5	3.63	2.9	4.21	3.2	4.64	3.4	4.93
8.0	29.3	4.1	5.95	4.6	6.67	4.9	7.11	5.5	7.83



Special Filter 2"									
Screen 800 kPa maximum									
		250 micron 30 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
2.5	9.2	0.0	0.00	0.0	0.00	0.1	0.15	0.1	0.15
5.0	18.3	0.1	0.15	0.1	0.15	0.2	0.29	0.3	0.44
7.5	27.5	0.2	0.26	0.3	0.44	0.4	0.58	0.5	0.73
10.0	36.7	0.2	0.29	0.4	0.58	0.6	0.87	0.8	1.16
12.5	45.8	0.3	0.44	0.6	0.87	0.9	1.31	1.2	1.74
15.0	55.0	0.5	0.73	0.9	1.31	1.3	1.89	1.6	2.32
17.5	64.2	0.8	1.16	1.3	1.89	1.7	2.47	2.1	3.05
20.0	73.3	1.4	2.03	1.9	2.76	2.4	3.48	2.9	4.21
22.5	82.5	2.4	3.48	2.9	4.21	3.4	4.93	4.0	5.80
25.0	91.7	3.7	5.73	4.2	6.09	4.8	6.96	5.5	7.98



Filter 2"									
Hydrocyclonic Screen 800 kPa maximum									
		250 micron 80 mesh		200 micron 60 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
2.5	9.2	0.0	0.00	0.0	0.00	0.1	0.15	0.1	0.15
5.0	18.3	0.2	0.29	0.4	0.58	0.6	0.87	0.8	1.16
7.5	27.5	0.9	1.31	1.3	1.89	1.7	2.47	2.0	2.90
10.0	36.7	1.9	2.76	2.4	3.48	2.9	4.21	3.3	4.79
12.5	45.8	3.0	4.35	3.6	5.22	4.2	6.09	4.7	6.82
15.0	55.0	4.4	6.38	5.0	7.25	5.5	7.98	6.1	8.85
17.5	64.2	6.0	8.70	6.5	9.43	7.0	10.15	7.5	10.88

Disk Filters

Technical Specifications Sheet

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Filtration Degree

Disk

	3/4" & 1" Small		3/4" & 1" Large		1" & 1 1/4" Special
Mesh	120	150	120	150	120
Colour	Red	Black	Red	Black	Green
mm	0.13	0.10	0.13	0.10	0.13
Micron	130	100	130	100	130

Screen

3/4" & 1" Large					
Mesh	60	80	120	150	
Colour	Grey	Black	Red	Brown	
mm	0.25	0.20	0.13	0.10	
Micron	250	200	130	100	
1" & 1 1/4" Special					
Mesh		80	120	150	180
Colour		Black	Red	Brown	Yellow
mm		0.20	0.13	0.10	0.085
Micron		200	130	100	85
1 1/2" Screen & Hydrocyclonic Screen					
Mesh	60	80	120	150	
Colour	Grey	Black	Red	Brown	
mm	0.25	0.20	0.13	0.10	
Micron	250	200	130	100	
2" Screen & Hydrocyclonic Screen					
Mesh	60	80	120	150	
Colour	Grey	Black	Red	Brown	
mm	0.25	0.20	0.13	0.10	
Micron	250	200	130	100	

Filter Element Dimensions

Filter Size		Small	Large	Special	1 1/2"	2"
Screen	Length [mm]		108.5	139.0	167.0	187.0
	Area [mm²]		12,707	18,025	27,162	40,574
Hydrocyclone Screen	Length [mm]				167.0	187.0
	Area [mm²]				27,162	40,574
Disk	Length [mm]	69.5	111.0	126.5		
	Area [mm²]	9,602	15,335	20,773		

Component	Material
Filter body	Polypropylene
Filter cap	Polypropylene
Cap seal O-ring	Nitrile rubber
Disks	Polypropylene
Disk support structure	Polypropylene
Screen	Stainless steel 304
Screen support structure	Polypropylene
Filter element O-ring	Nitrile rubber

Recommended use:

Products described above are designed and manufactured for micro irrigation use and therefore have a maximum recommended operating pressure of 300 kPa. The products must be used with suitable filtration (where applicable) to avoid blockage or damage to working components.

Please note that the information, opinions, recommendations and advice given on this specification sheet are supplied only to provide an improved understanding of the technical aspects of Philmac valves. So far as the law allows, Philmac Pty Ltd will not accept liability in respect of any loss or damage of any kind claimed to arise as a result of reliance upon any information contained on this specification sheet. Please refer to our Terms and Conditions of Supply of goods.

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