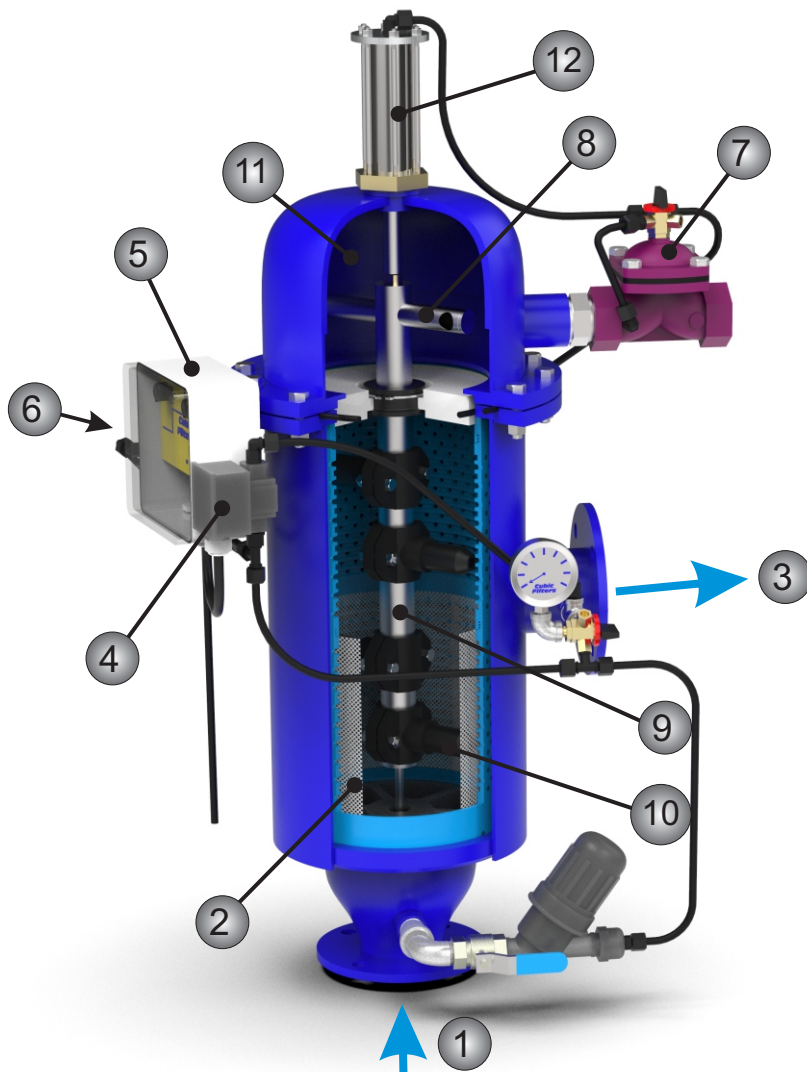


Cubic Bell Filters are secondary screen filters manufactured by **Cubic Water** for filtration of irrigation and industrial water.

It is manufactured to the highest standards in Nelspruit, South Africa.

With years of experience **Cubic Filters** not only offers an outstanding product but also a solution for your filtration needs.



LEGEND

1. Inlet
2. Screen
3. Outlet
4. Pressure Differential Switch
5. Automatic Flush Unit
6. Solenoid
7. Hydraulic Flush Valve
8. Hydraulic Motor
9. Dirt Collector
10. Suction Nozzle
11. Flushing Chamber
12. Hydraulic Piston

Water enters the Filter at the Inlet (1) and goes through the Fine Screen (2). The Fine Screen collects all the fine dirt in the inside of the element. The water exits the Filter at the Outlet (3).

The Pressure Differential Switch (4) measures the pressure drop over the Screen (2) and then signals the Automatic Flush Unit (5) to activate the Solenoid (6) to open the Hydraulic Flush Valve (7). When the Flush Valve (7) opens, the Hydraulic Motor (8) rotates the Dirt Collector (9) and the Suction Nozzles (10) suck the dirt off the Screen (2). The dirt goes through the Dirt Collector (9) and out the Flushing Chamber (11). The Hydraulic Piston (12) moves the Suction Nozzles (10) up and down the Screen (2) while the Hydraulic Motor (8) rotates them for a perfect cleaning of the Screen (2).



Made in South Africa

Cubic Filters²⁰²⁰

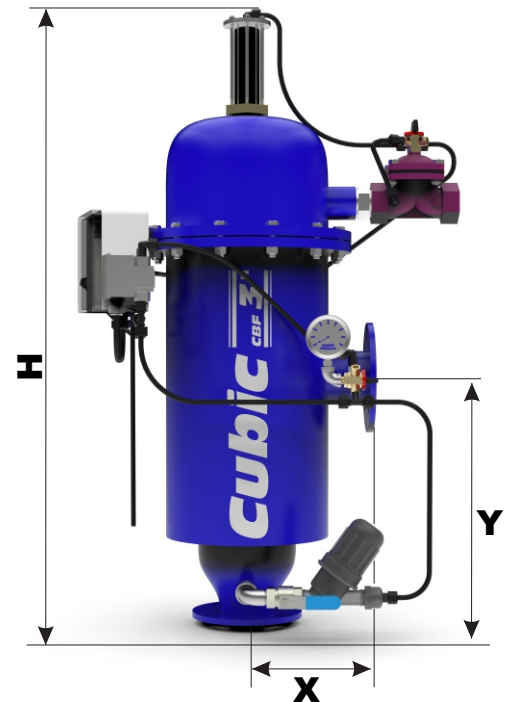


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Model Number	Inlet / Outlet		Dimensions			
			Filter Body OD	X	Y	H
	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)
CBF 2"	2	50	250	211	300	850
CBF 3"	3	80	250	211	400	1050
CBF 4"	4	100	250	216	500	2250

Model Number	Screen Area	Recommended Flow Rate		Maximum Flow Rate (100µm)		* Flash Flow Rate	
	(cm ²)	(m ³ /h)	(l/s)	(m ³ /h)	(l/s)	(m ³ /h)	(l/s)
CBF 2"	1100	20	5,6	25	6,9	7	1,9
CBF 3"	2400	40	11,1	50	13,9	14	3,9
CBF 4"	3600	60	16,7	75	20,8	21	5,8

* Filter Pressure at 200 kPa

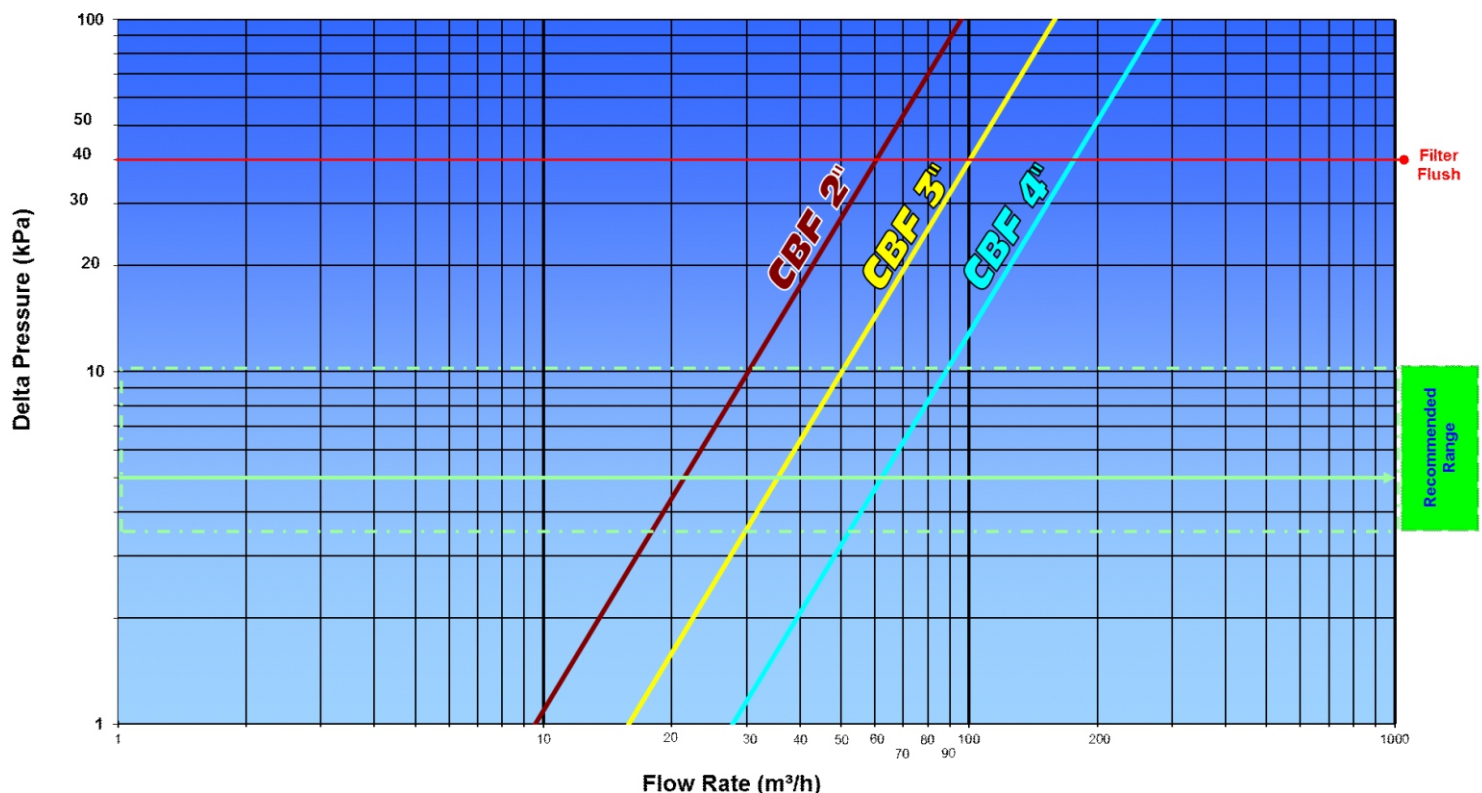


Standard Features

- Minimum operating pressure of 2 bar (200 kPa).
- Maximum operating pressure of 10 bar (1000 kPa) (Higher Optional).
- Clean filter pressure loss less than 0.1 bar (10 kPa) at maximum flow rate.
- Filtration 100,200 500, 800 & 1200 micron standard, other sizes available on request.
- Flush control: 220 VAC, 12VDA or Hydraulic Rinse -automatic flush controller.
- Filter housing materials of powder coated carbon steel.
- Bushes are Sustamid.

Pressure Loss with 100 micron screen

(clean water)



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