PureFlo® D90R Filter Discs

PureFlo® D90R Filter Discs have been designed for simple, quick, and efficient filtration of fluids and gases used in laboratory, pilot, and small-scale applications. The D90R discs are particularly suitable for scale up testing, they are the largest filter discs in our range.

10 different media options can be placed in an all-polypropylene construction for excellent chemical compatibility. There are 15 different fitting options that can be mixed and matched for the inlet and outlet fittings.

The unit is thermally-sealed to ensure integrity.

SPECIFICATIONS		
MATERIALS OF CONSTRUCTION:	**Outer Disc:**	Polypropylene or Gamma stabilized PP (medical)
	Filter Media:	Wide selection, see page 2
	Media Supports:	Depends on Filter Media
	O-Rings on quick fittings:	Silicone, EPDM, NBR
FITTING CONNECTIONS:	See ordering guide for the availability.	
EFFECTIVE FILTRATION AREA:	**60 cm²**	

OPERATING CONDITIONS for liquids at 22°C	**Outer disc material Polypropylene**
Maximum Operating Pressure:	5.5 bar
Maximum Forward Differential Pressure:	1.5 bar
Maximum Reverse Differential Pressure:	0.7 bar
Maximum Operating Temperature:	80 °C

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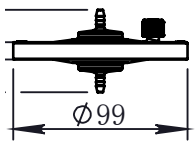
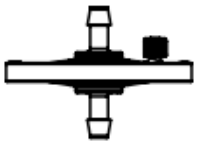
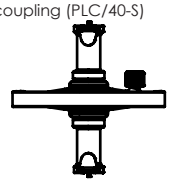
Filter Media Guide

PES Membrane (S)	PTFE hydrophobic Membrane (F)	Glass Fiber (G)	Hi Performance PP Media (HP)	PP Media (P)
010 = 0.1 µm **020** = 0.2 µm **045** = 0.45 µm **065** = 0.65 µm **080** = 0.8 µm **120** = 1.2 µm	**010** = 0.1 µm **020** = 0.2 µm **045** = 0.45 µm **100** = 1.0 µm **300** = 3.0 µm **500** = 5.0 µm **999** = 10 µm	**H** = HEPA **002** = 0.2 µm **004** = 0.45 µm **005** = 0.5 µm **010** = 1.0 µm **030** = 3.0 µm **050** = 5.0 µm **100** = 10 µm **200** = 20 µm	**001** = 0.1 µm **002** = 0.2 µm **003** = 0.3 µm **006** = 0.6 µm **010** = 1.0 µm **030** = 3.0 µm **050** = 5.0 µm **100** = 10.0 µm	**006** = 0.6 µm **010** = 1.0 µm **030** = 3.0 µm **050** = 5.0 µm **070** = 7.0 µm **100** = 10.0 µm **200** = 20.0 µm **300** = 30.0 µm **400** = 40.0 µm **500** = 50.0 µm **700** = 70.0 µm **10X** = 100 µm
Nylon Melt-Blown (NN)	**Nylon Mesh (NS)**	**Polypropylen Mesh (PS)**	**Stainless Steel Mesh (SS)**	**Polyester Mesh (TS)**
010 = 1 µm **030** = 3 µm **050** = 5 µm **100** = 10 µm **200** = 20 µm	**070** = 7 µm **100** = 10 µm **200** = 20 µm **400** = 40 µm **600** = 60 µm **10X** = 100 µm **20X** = 200 µm	**10X** = 100 µm **15 X**= 150 µm **20X** = 200 µm **30X** = 300 µm **50X** = 500 µm	**060** = 6 µm **180** = 18 µm **200** = 20 µm **250** = 25 µm **370** = 37 µm **460** = 46 µm **530** = 53 µm **610** = 61 µm **740** = 74 µm **10X** = 105 µm	**050** = 5 µm **070** = 7 µm **100** = 10 µm **200** = 20 µm **300** = 30 µm **400** = 40 µm **600** = 60 µm **730** = 73 µm

Fitting Guide

1H 1/8" Hose barb 	**2H** 1/4" Hose barb 	**3H** 3/8" Hose barb 	**1Q** 1/8" Male quick coupling (PMC/20-S) 	**1QF** 1/8" Female quick coupling (PMC/20-S)
2N 1/4" NPTM 	**1NF** 1/8" NPTF 	**TC** 1" Tri clamp (50.5mm) 	**2Q** 1/4" Male quick coupling (PLC/40-S) 	**2QF** 1/4" Female quick coupling (PLC/40-S) 
MT 1/2" Tri Clamp 	**4Q** 1/2" Male quick coupling (HFC/65-S) 	**2V** Walther fitting 	**LM** Luer lock male 	**LF** Luer lock female

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Ordering Guide

	FILTER MEDIA	PORE SIZES	INLET FITTING	OUTLET FITTING	OPTIONS
D90R	**S** = PES membrane **F** = PTFE membrane **G** = Glass Fiber **HP** = Hi Performance PP Media **P** = PP Melt-blown **NN** = Nylon Melt-blown **NS** = Nylon Mesh **PS** = PP Mesh **SS** = Stainless Steel Mesh **TS** = Polyester Mesh	*See Table **Filter Media Guide** for pore sizes	**1H** **2H** **3H** **1Q** **1QF** **2N** **1NF** **TC** **2Q** **2QF** **MT** **4Q** **2V** **LM** **LF**	**1H** **2H** **3H** **1Q** **1QF** **2N** **1NF** **TC** **2Q** **2QF** **MT** **4Q** **2V** **LM** **LF**	**(2) Construction Material** **Blank** = Polypropylene **-GP**= Gamma stable polypropylene shell **-BLK** = Black polypropylene shell **(3) O-Ring** **Blank** = O-ring silicone (standard) **-OE** = O-ring EPDM **-ON** = O-ring Nitrile **-OV** = O-ring Viton **(4) Other** **-NV** = No Vent port on disc filter
Example – D65R Filter disc Black shell with Polypropylene Melt-blown 7 µm, 1/4" male quick fittings and EPDM o-rings would be **D65R-P070-2Q2Q-BLK-OE**					

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