UNISOL UNF90 Nanofiltration Elements

Spiral Wound Element FG UNF90 Series

Description

UNF90 series membrane element is with nanofiltration membrane designed primarily for organic and color removal. It has excellent rejection of divalent ions.

Specification

Membrane	UNF90	
Material	Polyamide	
Out Wrap	FRP	
Permeate Flow[(1)(2)(3)] GPD (m^3/d)	FG UNF90 2540M	695 (2.7)
	FG UNF90 4040M-M	2010 (7.8)
	FG UNF90 4040J-M	2500 (9.5)
	FG UNF90 8040M	9750 (37)
	FG UNF90 8040C	6850 (26)
$MgSO_4$ Rejection[(1) (3) (4)]	≥ 98.5%	
Typical NaCl Rejection	80%	

Limits

Max Operating Pressure:	40 bar (580psi)
Max Pressure Drop:	1 bar (14.5 psi) for individual element
Max Operating Temperature:	45 °C (113 °F)
Cleaning pH Range:	2 – 12
Chlorine Concentration	< 0,1 ppm

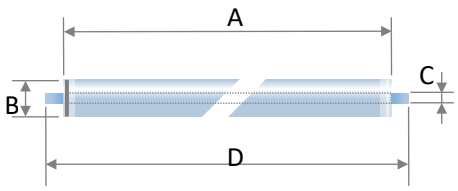
Area

ft^2 (m^2)

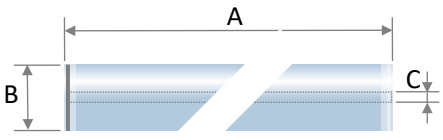
Model type	Article number	Area
FG UNF90 2540M	/	28 (2.6)
FG UNF90 4040M-M	/	82 (7.6)
FG UNF90 4040J-M	/	90 (8.4)
FG UNF90 8040M	/	398 (37)
FG UNF90 8040C	91112267	270 (25)

Dimensions

Male



Female



Size mm(inch)	A[1]	⌀B[2]	⌀C[3]	D
2540-Male	965 (38)	62 (2.4)	19 (0.748)	1016 (40)
4040-Male	965 (38)	99.4 (3.9)	19 (0.748)	1016 (40)
4040-Female	1016 (40)	99.4 (3.9)	16 (0.629)	/
8040-Female	1016 (40)	200.5 (7.9)	28.8 (1.138)	/

[1] Tolerance: -2~0mm.
[2] Tolerance: -2~0mm.
[3] 2540/4040-M tolerance: 0~+0.1 mm. 4040-F tolerance: ±0.1mm. 8040 tolerance: -0.2~0 mm.

(1) Test condition: 2000ppm $MgSO_4$ solution, 70psi (4.8bar), 77 ℉ (25 ℃), pH 8;

(2) Permeate flow for individual elements may vary ± 20%.

(3) For the purpose of improvement, specifications may be updated periodically.

(4) Stabilized salt rejection is generally achieved within 24 – 48 hours of continuous use, depending upon feed water characteristics and operating conditions.