



## DESCRIPTIONS

**N66** cartridge filters are made of high purity grade of Nylon 66 membrane casted onto non-woven Polyester material media for use in final filtration where high purity and efficient particles removal is needed.

Hydrophilic **N66** and pure Polypropylene construction provides excellent chemical compatibility and suitable for wide range of applications.

Non-shedding membrane with absolute fixed pore rating of 0.1, 0.2, 0.45, 0.65 and 1  $\mu\text{m}$  provide excellent particles removal and bacteria retention capabilities.

Large voids volume combines with large porous medium provide superior flow rate and low pressure drops to enhance service life span of filter.

All parts are thermally welded without surfactants, additives and binders eliminate extractable.

Manufacture in Class 10K clean room environment to ensure cartridge cleanliness.

Typical log reduction value for Pseudomonas Diminuta bacteria removal efficiency of 0.1 and 0.2  $\mu\text{m}$  is  $\geq 8$ .

100% pre-flushed with deionized water and integrity tested to ensure product consistency.

A guaranteed quality product (ISO 9001 certified).

Cartridges will be rinsed-up to 18  $\text{M}\Omega\text{-cm}$  D.I. water with a minimum of throughput, <120 Liters.

## SPECIFICATIONS

### ABSOLUTE MICRON RATING

0.1, 0.2, 0.45, 0.65 and 1 micron

### FILTRATION AREA/ 10 INCHES FILTER CARTRIDGE

> 0.68  $\text{m}^2$

### NOMINAL LENGTH

125, 250, 500, 750, 1000 mm or  
127, 254, 508, 762, 1016 mm

### NOMINAL INNER/OUTER DIAMETER (ID/OD)

Standard : 30/ 68 mm

Note: 28mm inner diameter is available upon request.

### MEDIA MATERIAL

Hydrophilic PVDF

### SUPPORTING MATERIAL

Standard : Pure Polypropylene  
PE : Polyester

### INNER CORE, CAGE AND END ADAPTOR MATERIAL

Standard : High Strength Pure Polypropylene  
RPG : Reinforced Polypropylene With Glass  
HPE : High Density Polyethylene

### SEALING TECHNIQUE

Thermal Bonding

### END STYLE

1) DOE : Double Opened End  
2) SOE : Single Opened End  
i) S2C : SOE, 222 O-Ring With Closed End  
ii) S2F : SOE, 222 O-Ring With Finned End  
iii) S6C : SOE, 226 O-Ring With Closed End  
iv) S6F : SOE, 226 O-Ring With Finned End

Note:

Note: Extended adaptor and stainless steel reinforcement ring for SOE filter cartridge is available upon request.

### GASKET AND O-RING MATERIAL

1) Standard : EPDM                      2) V : Viton  
3) S : Silicone                      4) T : Teflon  
5) FEP : Teflon Encapsulated Viton

## OPERATING CONDITIONS

### MAX. FORWARD DIFFERENTIAL PRESSURE

100°C at 3.5 Bar (50 PSI), 50°C at 5.5 Bar (80 PSI)

### MAX. REVERSE DIFFERENTIAL PRESSURE

50 PSID at 27 °C (81 °F)

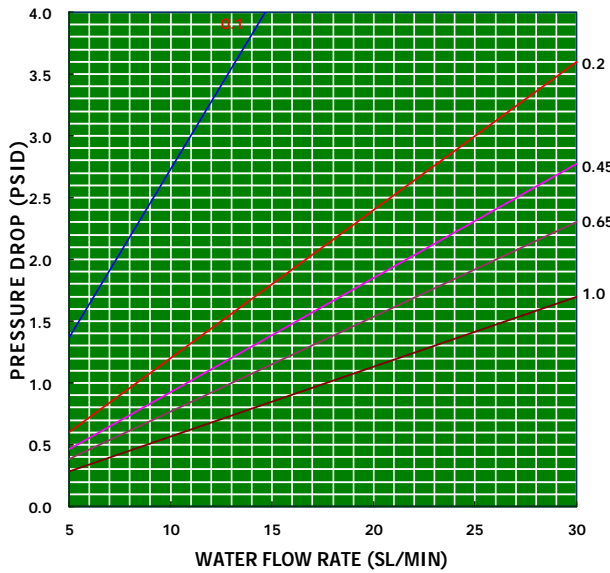
### MAX. OPERATING TEMPERATURE

100°C at 3.5 Bar (50 PSI)

### CHANGE OUT DIFFERENTIAL PRESSURE

3.4 Bar (50 PSI) At 90°C

**WATER PRESSURE DROP (10 INCHES CARTRIDGE)-N66**



# INTEGRITY TEST MINIMUM BUBBLE POINT (WATER)

Micron	0.1	0.2	0.45	0.65	1
BAR	>1.5	>1.3	>0.9	>0.6	>0.35
PSIG	>22	>18	>13	>9	>5
Log Retention Value Of Bacteria	≥8	≥8	-	-	-
Bacteria	Pseudomonas Diminuta		-	-	-

Air Temperature: 24 °C, Inlet Pressure: 15 PSID (1 Bar)

## ORDERING GUIDE

**KAREI – N66 – [ A ] – [ B ] – [ C ] – [ D ] – [ E ] – [ F ]**

<b>[ A ] MICRON</b>	01=0.1, 02= 0.2, 04=0.45, 06=0.65, 1=1 um
<b>[ B ] LENGTH</b>	125, 250, 500, 750, 1000 or 127, 254, 508, 762, 1016 mm
<b>[ C ] END STYLE</b>	None=Double Opened End (DOE) S2C=222 & Closed End, S2F=222 & Finned End, S6C=226 & Closed End, S6F=226 & Finned End Note: For SOE with extended adaptor, please include the code of 'EX'.
<b>[ D ] GASKET/O-RING MATERIAL</b>	None=EPDM, V=Viton, S=Silicone, T=Teflon, FEP=Teflon Encapsulated Viton Note : For SOE with stainless steel reinforcement ring, please include the code of 'R'.
<b>[ E ] PARTS MATERIAL</b>	None=Polypropylene, RPG=Reinforced PP With Glass, HPE=High Density PE

**EXAMPLE:**

- 1) KAREI-N66-02-250-DOE (N66, 0.2 um, 250mm, DOE, EPDM Gasket, PP Parts Material)
- 2) KAREI-N66-01-250-S2C-EX-VR-RPG (N66, 0.1 um, 250mm, SOE, 222 Viton O-Ring With Extended Adaptor and Stainless Steel Reinforcement Ring, Closed End, Reinforced PP With Glass Parts Material)