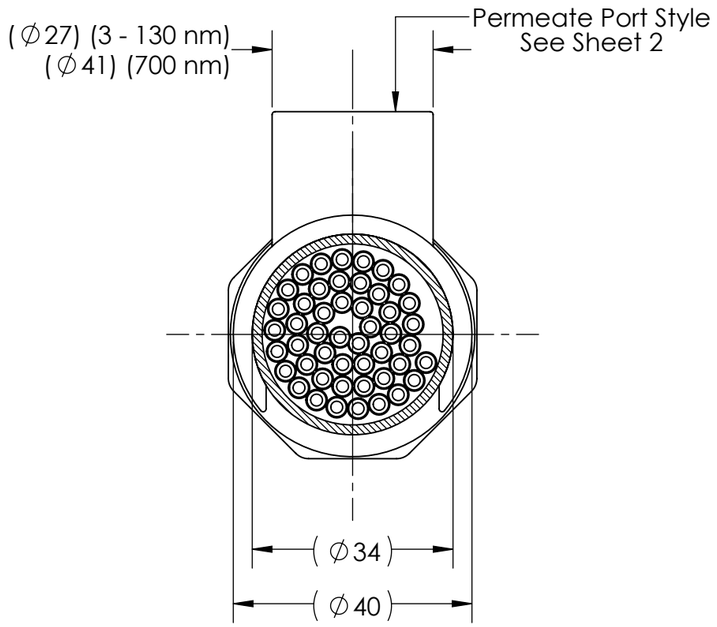
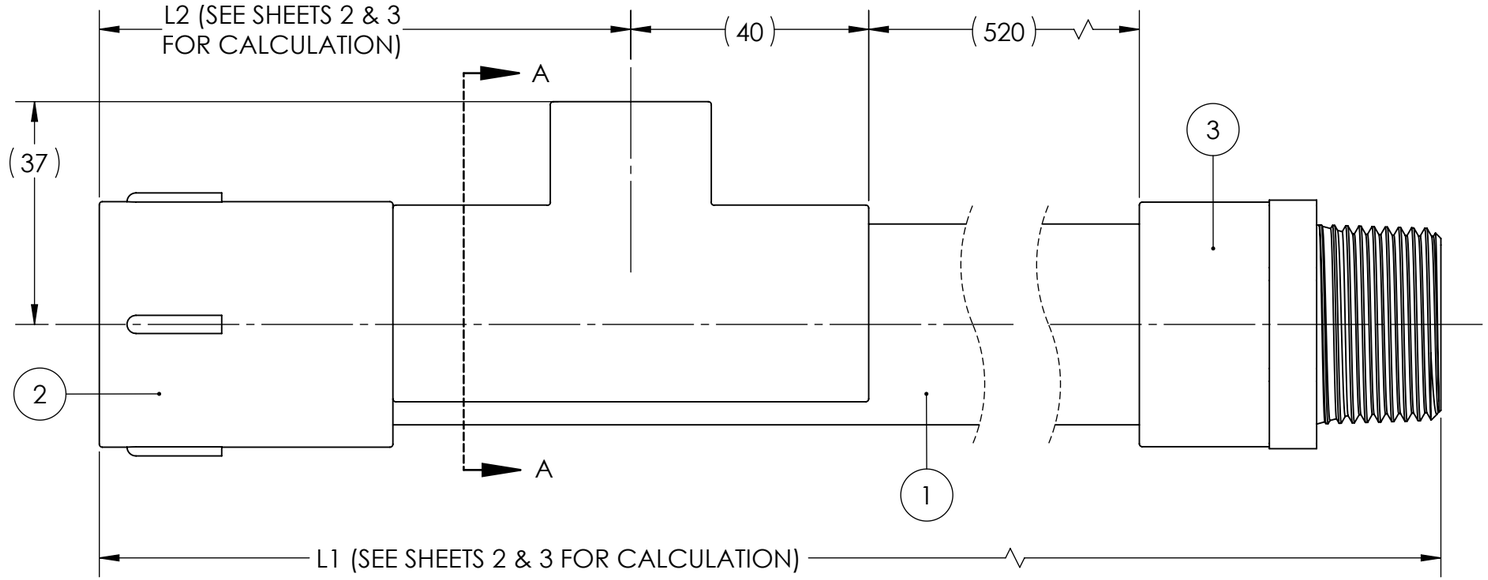
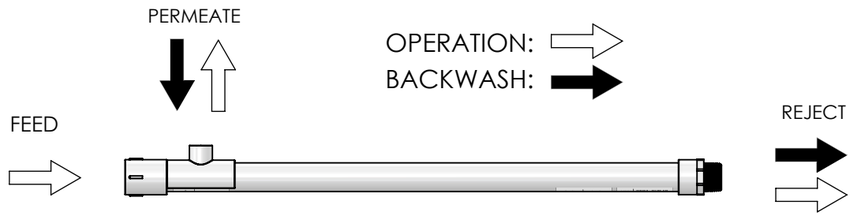
MODEL 1-80P-413 SHOWN FOR REFERENCE

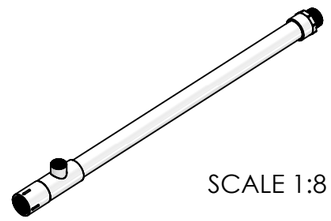


SECTION A-A



FLOW DIRECTIONS





SCALE 1:8

PRODUCT NOTES

- APPLICATION: INDUSTRIAL WASTE WATER TREATMENT
- FILTRATION TYPE: CROSS-FLOW, IN-OUT
- FILTER TYPE: CHFM (CERAMIC HOLLOW FIBER MEMBRANE)
- CERAMIC HOLLOW FIBER ID: 2.0 mm
- MEMBRANE NOMINAL PORE SIZE: REFER TO SHEET 2, TABLE 1
- AVERAGE CLEAN WATER FLUX: REFER TO SHEET 2, TABLE 1
- EFFECTIVE FILTRATION AREA: 0.17 m² MIN.
- NOMINAL OPEN CROSS-SECTION AREA: 150mm² (9 l/min = 1 m/s CFV)
- FEED PRESSURE: MAX 3.0 bar @ 40° C
- FEED TEMPERATURE: 10°C TO 40°C
- TRANSMEMBRANE PRESSURE (TMP): MAX 3.0 bar
- BACK WASH PRESSURE: MAX 3.5 bar (NO BACK HAMMERING ALLOWED)
- pH STABILITY: OPERATION: 4-10 CLEANING: 2-12 (LIMITED DURATION)
- ENVIRONMENTAL TEMPERATURE: 10° C TO 40° C
- STORAGE AND TRANSPORT TEMPERATURE: 10°C TO 40°C
- MUST BE CLEANED, COMPLETELY DRIED BEFORE STORAGE AND TRANSPORT
- ALL PORTS MUST BE CAPPED DURING STORAGE AND TRANSPORT
- DO NOT DROP, TAKE CARE WHILE HANDLING CERAMICS
- AVOID THERMAL SHOCK

ITEM NO.	PART NUMBER	PART NAME	DESCRIPTION	QTY.	MATERIAL
1	1902-0401-S00	Filter Comp	CERA~DUR 1P, Without End Fittings	1	SEE BOM
2	See Sheet 2	Fitting	Customer Selected Option - See Sheet 2	1	PVC
3	See Sheet 2	Fitting	Customer Selected Option - See Sheet 2	1	PVC

GENERAL NOTES:
PART MUST BE FREE OF BURRS, TOOL MARKS OR FLASHING WHICH MAY BE DETRIMENTAL TO SATISFACTORY ASSEMBLY, SAFE HANDLING, APPEARANCE OR FUNCTIONS.

UNLESS OTHERWISE STATED:
GENERAL TOLERANCES ACC. ISO 2768-mK

CAD System: Solidworks16
Measurements in millimeters

	NAME	DATE
DRAWN	EM	11/1/2019
CHECKED	DR	11/4/2019
ENG APPR.		11-4-19

TITLE: FILTER COMP
CERA~DUR 1P

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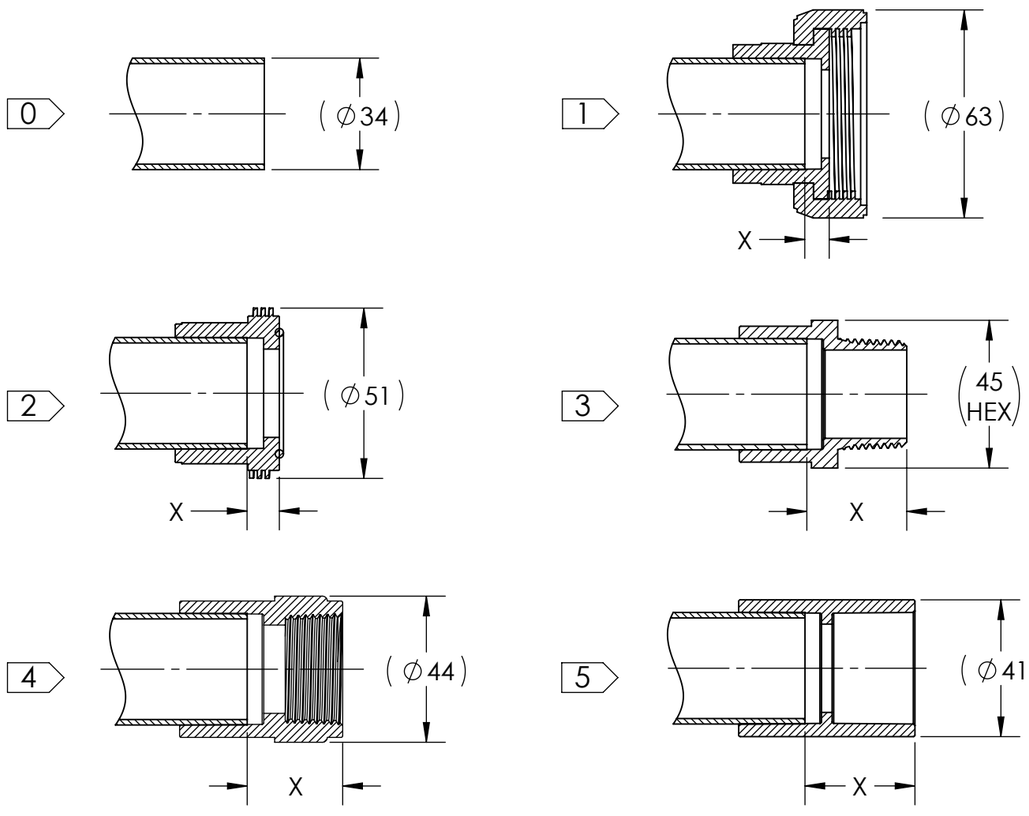
DWG. NO. SEE SHEET 2, TABLE 1
Material SEE BOM

SCALE: 1:1 | WEIGHT: SEE SHEETS 2/3 | SHEET 1 OF 3

End Styles



Permeate Port Styles

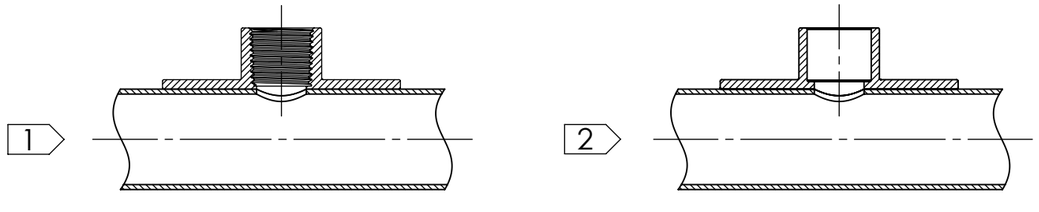


TABLE 1 - MODULE CONFIGURATION INFORMATION

PART NUMBER	PERMEATE PORT STYLE	PORE SIZE (nm)	CLEAN WATER FLUX (l/m²/h/bar)	BACKWASH FLOW (l/min/bar)
1802-0188-S00	1 1/2" FNPT	3	60	0.1
1902-0402-S00	2 1/2" Slip			
1802-0192-S00	1 1/2" FNPT	10	300	0.7
1902-0404-S00	2 1/2" Slip			
1802-0183-S00	1 1/2" FNPT	30	400	0.9
1902-0405-S00	2 1/2" Slip			
1802-0184-S00	1 1/2" FNPT	80	800	1.8
1902-0406-S00	2 1/2" Slip			
1902-0185-S00	1 1/2" FNPT	100	1,400	3.2
1902-0487-S00	2 1/2" Slip			
1802-0186-S00	1 1/2" FNPT	130	1,800	4.0
1902-0408-S00	2 1/2" Slip			
1902-0362-S00	1 1" FNPT	700	14,000	32
1902-0409-S00	2 1" Slip			

TABLE 2 - FITTING INFORMATION

PART NUMBER	FITTING STYLE	X (mm)	m (g)
-	0 None	0	0
1902-0282-S00	1 1" Union (Female)	7	50
1902-0279-S00	2 1" Union (Male)	9	30
1902-0283-S00	3 1" MNPT	30	30
1902-0284-S00	4 1" FNPT	30	35
1902-0285-S00	5 1" Slip Coupling	33	30

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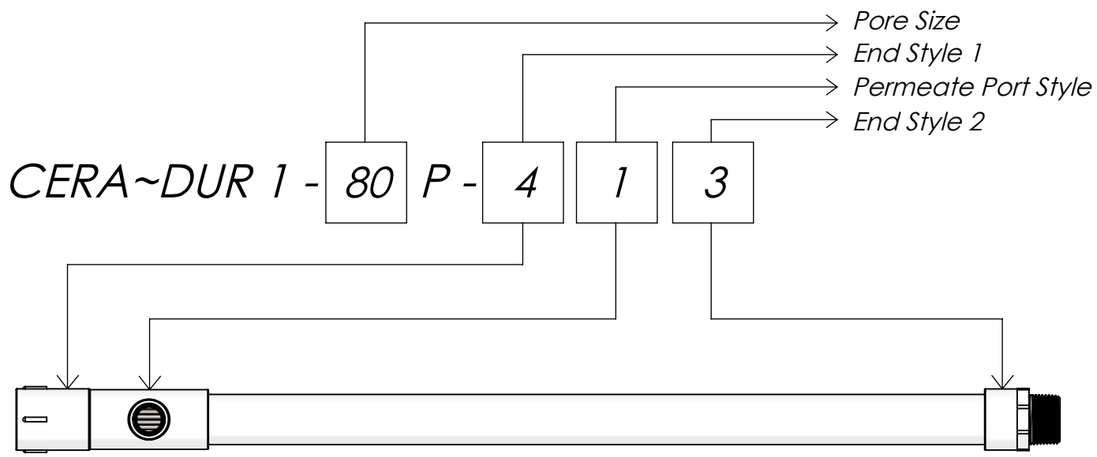
DWG. NO. SEE SHEET 2, TABLE 1

SHEET 2 OF 3

SCALE: 1 : 2

MODEL 1-80P-413 SHOWN FOR REFERENCE

PRODUCT NAME



CALCULATIONS

TOTAL LENGTH L1 $\binom{+5}{-0}$

$L1 = 641 + X_{END\ 1} + X_{END\ 2}$

(Ex: Model 413 = 641 + 30 + 30 = **701 mm**)

LENGTH L2 $\binom{+2}{-0}$

$L2 = 60 + X_{END\ 1}$

(Ex: Model 413 = 60 + 30 = **90 mm**)

TOTAL WEIGHT $\binom{+30}{-30}$

$m = 480 + m_{END\ 1} + m_{END\ 2}$

(Ex: Model 413 = 480 + 35 + 30 = **545 g**)

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DWG. NO.	SHEET 3 OF 3
SEE SHEET 2, TABLE 1	SCALE: N/A