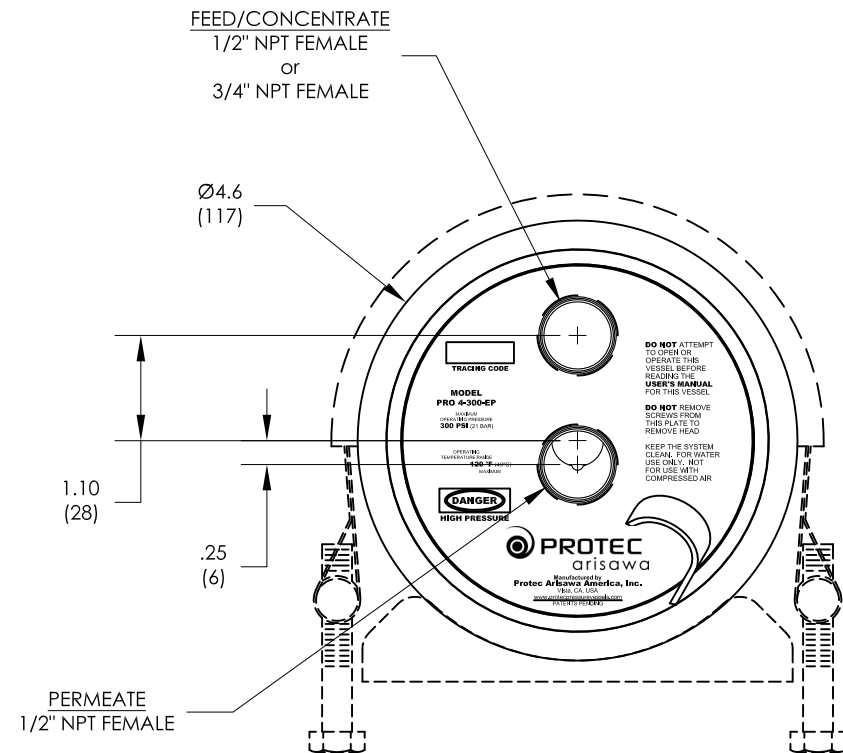
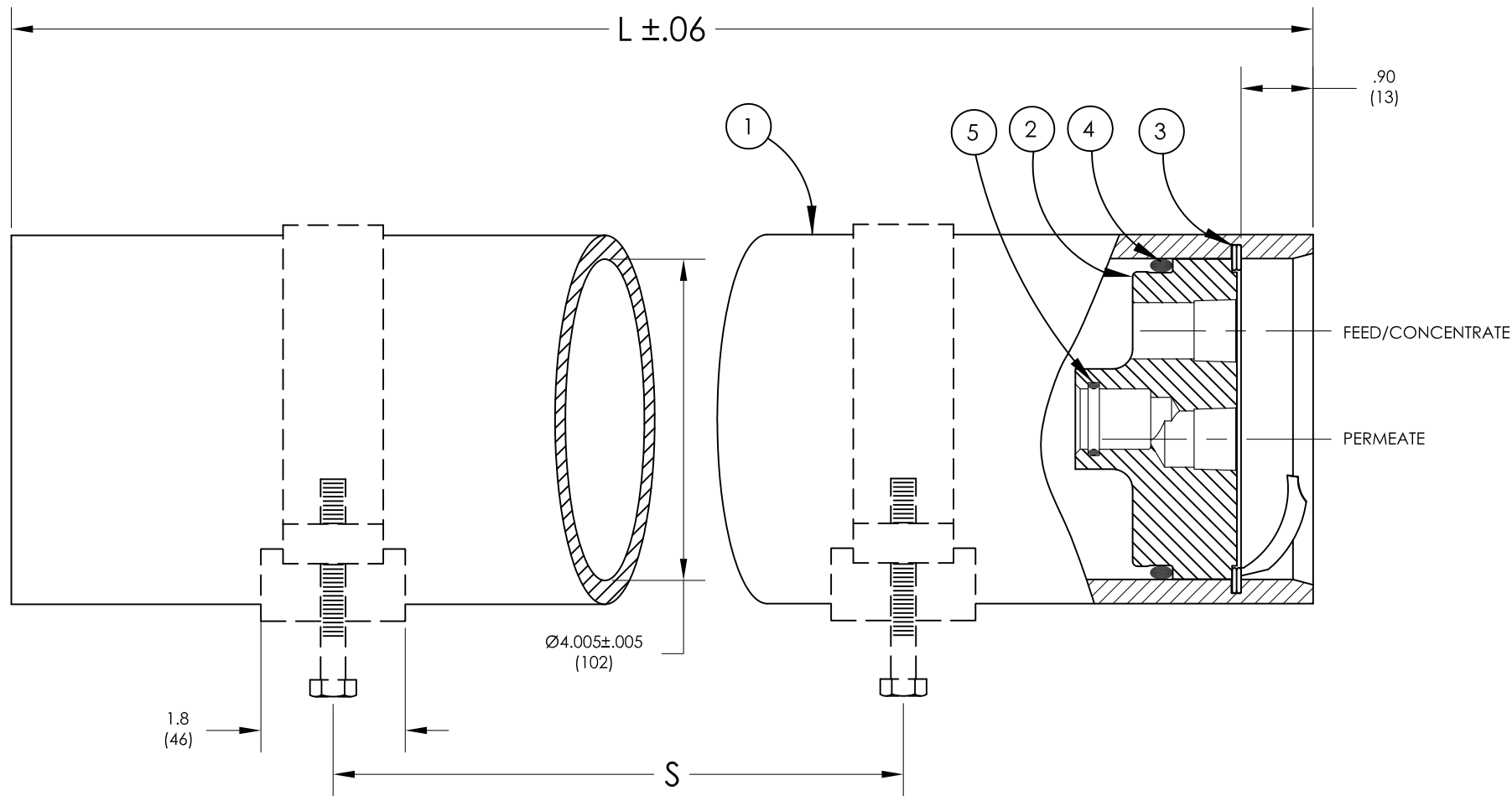




GENERAL DIMENSIONS

Shell Length Code	L inch (mm)	S Span in (mm)	Empty Weight lb (kg)
-1	44.3 (1125.2)	28 (711)	10 (5)
-2	84.3 (2141.2)	56 (1422)	18 (8)
-3	124.3 (3157.2)	80 (2032)	26 (12)
-4	164.3 (4173.2)	2@64 (2@1626)	34 (15)
-5	204.3 (5189.2)	2@78 (2@1981)	42 (19)
-6	244.3 (6205.2)	2@92 (2@2337)	50 (23)

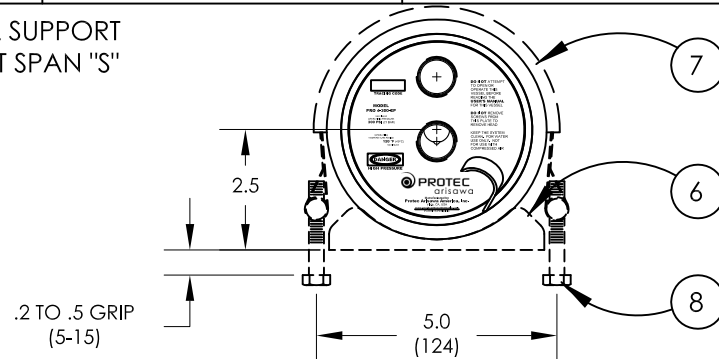
BILL OF MATERIALS

ITEM	QTY	P/N	DESCRIPTION	MATERIAL
1	1	4040084	Shell	Filament Wound, Epoxy FRP
2	2	4040117-1 4040095-1	End Plug, 1/2" NPT Feed (shown) End Plug, 3/4" NPT Feed	PVC Thermoplastic PVC Thermoplastic
3	2	4040079	Retaining Ring w/ Finger Pull	Stainless Steel, 300 Series, SA-479
4	2	6180342	Plug Seal, O-Ring	Ethylene Propylene
5	2	6180116	PWT Seal, O-Ring	Ethylene Propylene

OPTIONAL VESSEL SUPPORT

6	2	4040037	Support Saddle	Polyurethane
7	2	4040040	Strap Assembly	Stainless Steel, 300 Series
8	4	6150001	Strap Screw	Stainless Steel, 18-8

OPTIONAL VESSEL SUPPORT SUPPORT VESSEL AT SPAN "S"



NOTES:

DIMENSIONS IN INCHES (MM APPROX.)

FOR REFERENCE ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED

CENTER VESSEL ON 2 SUPPORTS AT SPAN(S) "S". 3 SUPPORTS REQUIRED FOR LENGTHS -4 AND LONGER

INCORRECT MANIFOLDING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT AND MAY RESULT IN LEAKS AND PREMATURE FAILURE. TAKE EVERY PRECAUTION LISTED IN THIS PACKET.

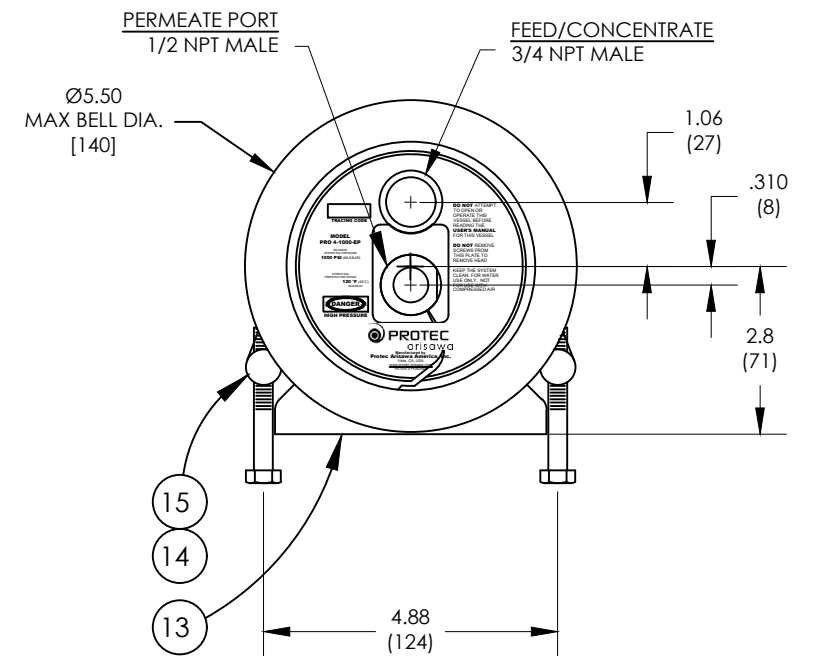
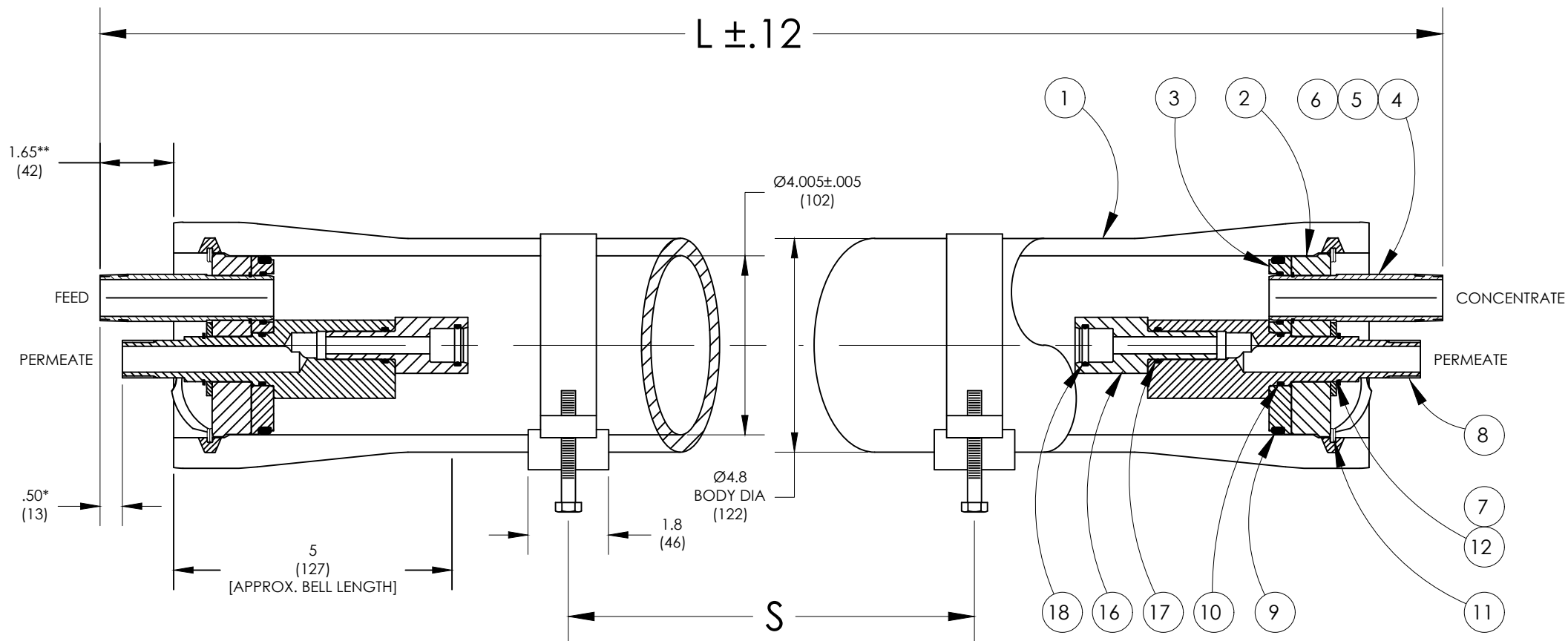
AS PER ASME AND CRN REQUIRED
ASME SECTION X 2021, RP/NB STAMP REQUIRED FOR CRN

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



PRO 4-300-EP

ENGR MK 6/13/22	ECO N/A	REVISED 6/13/22	DRAWING 104003	REV O
QLTY TS 6/13/22				
MRKT CC 6/13/22				



GENERAL DIMENSIONS

Shell Length Code	L 3/4" NPT Feed inch (mm)	L 3/4" Grooved Feed inch (mm)	S Span in (mm)	Empty Weight lb (kg)
-1	55 (1397)	59 (1499)	28 (711)	23 (11)
-2	95 (2413)	99 (2515)	51 (1295)	39 (18)
-3	135 (3429)	139 (3531)	73 (1854)	56 (25)
-4	175 (4445)	179 (4547)	95 (2413)	72 (33)
-5	215 (5461)	219 (5563)	117 (2972)	88 (40)
-6	255 (6477)	259 (6579)	140 (3556)	103 (47)

** 3/4" NPT feed port shown. Add 2" for 3/4" grooved feed port

BILL OF MATERIALS

ITEM	QTY	P/N	DESCRIPTION	MATERIAL
1	1	4040173	Shell	Filament Wound, Epoxy FRP
2	2	4040011	Bearing Plate	6061-T6 Aluminum, SB-221, Anodized
3	2	4040012-1	Sealing Plate	PVC
4	2	4040014-2	Feed/Concentrate Port	Super Duplex SST, SA-790
5	2	6121100	Retaining Ring, F/C Port	SST, 316, SA-479
6	2	6180120-N	Seal, F/C Port, O-Ring	Ethylene Propylene
7	2	4040019-3	Clocking Tab	Thermoplastic
8	2	4040063-1	Permeate Port, 1/2" MNPT	PVC
9	2	6180342-N	Head Seal, O-Ring	Ethylene Propylene
10	2	6180120-N	Permeate Port Seal, O-Ring	Ethylene Propylene
11	2	4040079	Retaining Ring w/ Finger Pull	SST, 316, SA-479
12	2	6121100	Retaining Ring, Permeate Port	SST, 316, SA-479
13	2	4040037	Support Saddle	Polyurethane
14	2	4040040	Strap Assembly	SST, 316
15	4	6150001	Strap Screw	SST, 18-8
16	2	5040001-1	Adapter 0.75 PWTM x 0.38 BORE	PVC
17	2	6180114-N	Adapter Seal, O-Ring	Ethylene Propylene
18	2	6180116-N	PWT Seal, O-Ring	Ethylene Propylene

NOTES:

FILAMENT-WOUND CLASS 1 VESSEL
DESIGN PRESSURE : 1000 PSI
HYDROTEST PRESSURE : 1100PSI
MAX. DESIGN TEMPERATURE : 150 °F
MIN. DESIGN TEMPERATURE : 20 °F
IMPACT TESTING : EXEMPT
CORROSION ALLOWANCE : NONE
FLUID SERVICE : SEAWATER
DIMENSIONS IN INCHES (MM APPROX.)
FOR REFERENCE ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED.
SHIMMING OF THE SADDLES MAY BE REQUIRED.
CENTER VESSEL ON 2 OR 3 SUPPORTS AT SPAN(S) "S".
INCORRECT MANIFOLDING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT AND MAY
RESULT IN LEAKS AND PREMATURE FAILURE. TAKE EVERY PRECAUTION LISTED IN
THE ENGINEERING PACKET OR USERS MANUAL.
INTERNAL PERMEATE PRESSURE MUST NOT EXCEED 125 PSI.
ASME SECTION X 2023, RP/NB STAMP REQUIRED FOR CRN
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



PRO 4-1000-EP

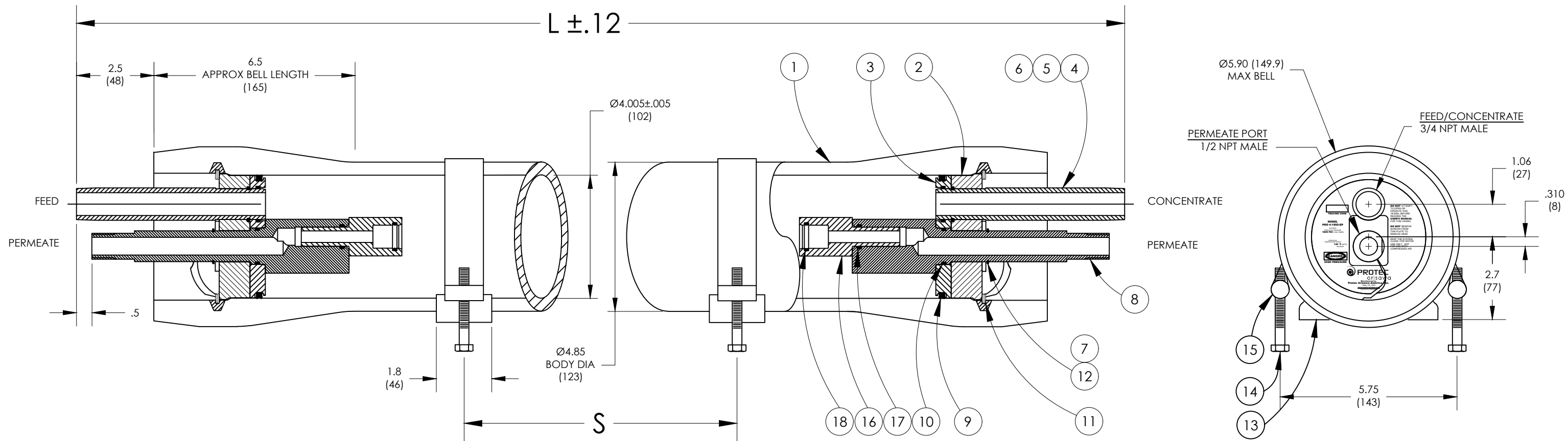
ENGR
KI
3/25/2024
QLTY
TS
3/25/2024
MRKT
CC
3/25/2024

ECO
N/A

REVISED
N/A

DRAWING
104012

REV
B



GENERAL DIMENSIONS

Shell Length Code	L inch (mm)	S Span in (mm)	Empty Weight lb (kg)
-1	59.55 (1512)	28 (711)	43 (20)
-2	99.55 (2528)	51 (1295)	63 (28)
-3	139.55 (3544)	73 (1854)	82 (37)
-4	179.55 (4560)	95 (2413)	102 (46)

BILL OF MATERIALS

ITEM	QTY	P/N	DESCRIPTION	MATERIAL
1	1	4040180	Shell	Filament Wound, Epoxy FRP
2	2	4040181	Bearing Plate	6061-T6 Aluminum, SB-221, Anodized
3	2	4040012-1	Sealing Plate	PVC Thermoplastic
4	2	4040165-2	Feed/Concentrate Port 3/4" NPTM	SST, Super Duplex, SA-790
5	4	6121100	Retaining Ring, F/C Port	SST, 316, SA-479
6	2	6180120-N	Seal, F/C Port, O-Ring	Ethylene Propylene
7	2	4040019-3	Clocking Tab	Thermoplastic
8	2	4040166-6	Permeate Port 1/2" NPTM	SST, Super Duplex, SA-479
9	2	6100342	Head Seal, Quad Seal	NBR
10	2	6180120-N	Permeate Port Seal, O-Ring	Ethylene Propylene
11	2	4040079	Retaining Ring w/Finger Pull	SST, 316, SA-479
12	2	6121100	Retaining Ring, Permeate Port	SST, 316, SA-479
13	2	4040037	Support Saddle	Polyurethane
14	2	4040040	Strap Assembly	SST, 316
15	4	6150001	Strap Screw	SST, 18-8
16	2	5040001-6	Adapter 0.75 PWTM x 0.38 BORE	SST, Super Duplex, SA-479
17	2	6180114-N	Adapter Seal, O-Ring	Ethylene Propylene
18	2	6180116-N	PWT Seal, O-Ring	Ethylene Propylene

NOTES:
FILAMENT-WOUND CLASS 1 VESSEL
DESIGN PRESSURE : 1800 PSI
HYDROTEST PRESSURE : 1980PSI
MAX. DESIGN TEMPERATURE : 120 °F
MIN. DESIGN TEMPERATURE : 20 °F
IMPACT TESTING : EXEMPT
CORROSION ALLOWANCE : NONE
FLUID SERVICE : SEAWATER
DIMENSIONS IN INCHES (MM APPROX.)
FOR REFERENCE ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED.
SHIMMING OF THE SADDLES MAY BE REQUIRED.
CENTER VESSEL ON 2 OR 3 SUPPORTS AT SPAN(S) "S".
INCORRECT MANIFOLDING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT AND MAY RESULT IN LEAKS AND PREMATURE FAILURE. TAKE EVERY PRECAUTION LISTED IN THE ENGINEERING PACKET OR USERS MANUAL.
INTERNAL PERMEATE PRESSURE MUST NOT EXCEED 125 PSI.
ASME SECTION X 2023, RP/NB STAMP REQUIRED FOR CRN
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



PRO 4-1800-EP

ENGR KI 08/30/2024				
QLTY TS 08/30/2024				
MRKT CC 08/30/2024	ECO N/A	REVISED N/A	DRAWING 1040015	REV C