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PEAK BELL PEAK BELL							
	NO. OF POF	RTS PO	VESSEL QTY.				
	Dash Length	L IN(MM)	P IN(MM)	S IN(MM)	Approx Weight LB(KG)**		
	-1	59.15 (1502)	47 (1194)	23X1 (584)	66 (30)		
	-2	99.15 (2518)	87 (2210)	56X1 (1422)	75 (34)		
	-3	139.15 (3534)	127 (3226)	80X1 (2032)	88 (40)		
	-4	179.15 (4550)	5 167 64X2		101 (46)		
SSURE PSI.	-5	219.15 (5566)	207 78X2 (5258) (1981)		110		
PSI.	-6	(5566) (5256) (1981) 259.15 247 92X2 (6582) (6274) (2337)		126			
		299.15 287 106X2		137			
	-7			106X2 (2692)			
	-7 -8	299.15	287		(62) 152		
	-8 ••• P C	299.15 (7598) 339.15 (8614) ODEL	287 (7290) 327 (8306)	(2692) 120X2 (3048) VERN	(62) 152 (69) IA, GOA DIA		
KR 05NOV07 MD	-8	299.15 (7598) 339.15 (8614) PENT ODEL	287 (7290) 327 (8306) FAIR INE	(2692) 120X2 (3048) VERN IN NG URAW	(62) 152 (69) A, GOA DIA ING NO.: 99172 V EL MODEL:		
05NOV07	-8	299.15 (7598) 339.15 (8614) PENT ODEL NETTION: IS30 NC MEME	287 (7290) 327 (8306) FAIR INE	(2692) 120X2 (3048) VERN IN NG URAW	(62) 152 (69) IA, GOA DIA ING NO: 99172 V EL MODEL: 80 (NON-CODED) TOTAL QTY: -		

ECN NO. :

REV. DATE:

RATING-

DEGICIN DEGGLIDI

(2.07MPa)
190°F
(88°C)
20°F
(-7°C)
450 PSIG
(3.10 MPa)
1800 PSI
(12.41 MPa)

INTENDED USE:

The CodeLine 80S30 Non Coded Fiberglass RO Pressure Vessel is designed for continuous, long term use as a housing for reverse osmosis membrane elements to desalt typical brackish waters at pressures up to 300 psi. Any make of eight-inch nominal diameter spiral-wound element is easily accommodated; the appropriate interfacing hardware for the element specified is furnished with the vessel

The Shell of CodeLine 80S30 Non Coded vessel is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) as per Section X. ASME Edition 2021 and all metallic parts are designed as per section ASME VIII Division I Edition 2021

The CodeLine 80S30 Non Coded vessel must be installed operated and maintained in accordance with the listed precautions and good industrial practice to assure safe operation over a long service life.

The high performance Filament wound FRP shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell. This side-ported vessel requires special precautions in mounting and connection to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fiberglass shell. The end closure, incorporating close fitting, interlocking metal components, must be kept dry and free of corrosion; deterioration can lead to catastrophic mechanical failure of the head.

Pentair will assist the purchaser in determining the suitability of this standard vessel for their specific operating conditions. The final determination however, including evaluation of the standard material of construction for compatibility with the specific corrosive environment, shall be the responsibility of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

Specifications are subject to change without notice.

PRECAUTIONS:

- DO...read, understand and follow all instructions: failure to take every precaution will void warranty and may result in vessel failure
- DO...mount the shell on horizontal members at span "S" using compliant vessel supports furnished; Shim saddles if required. Tighten hold down straps just snug
- DO...align and center side ports with the manifold header. Correct, causes of misalignment in a row of vessels connected to the same header
- DO...use flexible type IPS grooved-end pipe couplings, at side ports; allow full, 0.125 inch gap between port and piping, and position piping to maximize flexibility of connection.
- DO...provide flexibility in, and support for piping manifolds so that vessel can grow in length under pressure without undue restraint; provide additional flexible joints in large pipes leading to manifold header.
- DO...provide overpressure protection for vessel set at not more than 105% of design pressure
- DO...inspect end closures regularly; replace components that have deteriorated and correct causes of corrosion
- DO... Lubricate seals sparingly, using nonpetroleum Based lubricants, i.e. Parker Super O-lube®,
- Glycerin or suitable silicone based lubricants
- DO NOT...work on any component until first verifying that pressure is relieved from vessel
- DO NOT...make rigid piping connections to ports or clamp vessel in any way that resists growth of fiberglass shell under pressure:
 - *** $\Delta DIA = 0.015$ in. (0.4mm) and
- *** $\Delta L = 0.2$ in. (6mm) for a length code -8 vessel DO NOT... hang piping manifolds from ports or use vessel in
- any way to support other components DO NOT...tighten Permeate Port connection more than one
- turn past hand tight DO NOT... operate vessel without connecting both Permeate Ports internally to complete set of elements or otherwise plug ports internally so that external piping connection is
- not subjected to feed pressure DO NOT install Spacer on downstream end of vessel
- DO NOT...operate vessel without Thrust Cone installed downstream
- DO NOT...pressurize vessel until double-checking to verify that the Locking Ring is in place and fully seated.
- DO NOT...operate vessel at pressure and temperature in excess of its rating.
- DO NOT...operate vessel with permeate pressure in excess of 125 psi at 190°F (0.86 Mpa at 88°C).
- DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way
- DO NOT...operate outside the pH range 3-11.

ORDERING-

Using the chart below, please check the features you require

VESSEL LENGTH CODE – please check one

MODEL 80S30 Non Coded -1 -2 -3 -4 -5 -6 -7 -8

MEMBRANE BRAND AND MODEL

□ Please supply adapters for the following membrane brand and specific model Model

CERTIFICATION REOUIRED

CE Marked Standard	a.

Certified by Pentair

ADAPTER KITS UP DOWN STREAM STREAM

PERMEATE PORT CONFIGURATION:

□ Standard. 1" FNPT & 1.5" IPS GROOVED NORYL HEAD.

Optional .1" BSP F/JIS F Parallel Thread & 1.5" IPS GROOVED NORYL HEAD.

STRAP ASSEMBLY

□ Standard SS304

□ Optional SS316 □ Optional SS316L

STRAP ASSEMBLY PART NUMBERS							
SS304	SS316	SS316L					
45042	46926+	94371 ⁺					

FEED/CONCENTRATE PORT SELECTION

Material of Construction Standard CF3M Optional Duplex SS (CD3MN) □ Optional Super Duplex SS (CD3MWCuN)

□ Standard - CF3M 1D5D Configuration

□ Optional – Multi ports:

Serial number end				
Opposite end				

F/C PORT & SEAL PART NUMBER						
SIZE	*CF3M	**CD3MN	***CD3MWCuN	SEAL		
1.5"	98024	97353	96507	196224		
2.0"	98025	97357	96643	196225		
2.5"	98026	97364	96556	196226		

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