

/ED	Ø10.06 (256) PEAK BELL PSI						
FEED/CONCENTRATE 1 1/2" IPS PIPE GROOVED END (SHOWN) MULTIPORT CONFIGURATIONS IN							
	', 2" & 2 1/2" A ASE SEE ORI	DER SECTION	N				
	NO. OF POP	RTS PO	ORT LOCAT	ION	VESSE	L QTY.	
	Dash Length	L IN(MM)	P IN(MM)	S IN(MM	\ We	orox eight KG)**	
	-1	59.15 (1502)	47 (1194)	23X1 (584)	6	56 30)	
	-2	99.15 (2518)	87 (2210)	56X1 (1422)		75 34)	
	-3	139.15 (3534)	127 (3226)	80X1 (2032)		38 40)	
	-4	179.15 (4550)	167 (4242)	64X2 (1626)		01 46)	
SSURE PSI.	-5	219.15 (5566)	207 (5258)	78X2 (1981)		10 50)	
	-6	259.15 (6582)	247 (6274)	92X2 (2337)		26 57)	
	-7	299.15 (7598)	287 (7290)	106X2 (2692)		37 62)	
	-8	339.15 (8614)	327 (8306)	120X2 (3048)		52 69)	
CODELINE VERNA, GOA							
KR 05NOV07	MODEL - 80S30 NC MEMBRANE HOUSING			VING N0.: 99172	REV.: V		
MD 05NOV07	CUSTOMER NAME: VESSEL MODEL: 80S30 (NON-CODED						
7: RM 05NOV07	PROJECT NAME: CUSTOMER P.O.#: SIZE: SCALE: A3 NONE				тс	TAL QTY:	
6242 10NOV22	CUSTOMER P.O.	#:				GE NO.: 1 OF 02	



PT Watermart Perkasa

Email: sales@water.co.id Phone: +62-21-316-1671 Whatsapp (text only): +62815-8609-3500 Website: www.water.co.id

RATING-

DEGICIN DEGGLIDI

DESIGN PRESSURE	
	(2.07MPa)
MAX OPERATING TEMP	190°F
	(88°C)
MIN. OPERATING TEMP	20°F
	(-7°C)
FACTORY TEST PRESSURE	450 PSIG
	(3.10 MPa)
QUALIFICATION PRESSURE	
-	(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.
- Certified by Pentair

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

Configuration

	Standard SS304	□ Optional SS316	□ Optional SS316L
STRAP A			
SS304	SS316	SS316L	
45042	46926+	94371+	

ADAPTER KITS

DOWN

STREAM

UP

STREAM

FEED/CONCENTRATE PORT SELECTION

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

□ Standard - CF3M 1D5D

Optional – Multi ports:

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

HECKED B

APPROVED E

REV DATE

DATE:

DATE: ECN NO.

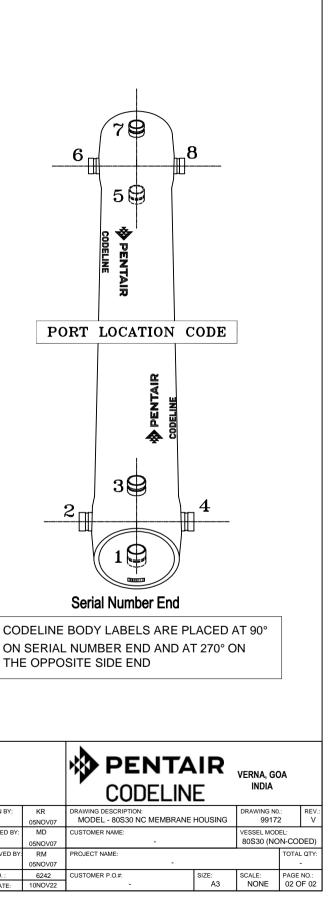
GENERAL NOTES:

- DIMENSIONS IN INCHES (MM APPROX.)
- GRADE SA-351 CF3M.
- GRADE SA-995 CD3MN (UNS J92205). ***
- GRADE SA-995 CD3MWCuN (UNS J93380)
- + OPTIONAL STRAP ASSEMBLY WITH SS-316 & 316L SHALL BE SUPPLIED AS PER METRIC STANDARDS.

THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN, ARE THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF PENTAIR WATER INDIA PVT. LTD. PENTAIR WATER INDIA PVT. LTD. IS THE SOLE OWNER OF THE INFORMATION AND PROCESSES DEFINED HEREIN. THIS DOCUMENT AND THE INFORMATION CONTAINED MAY NOT BE DISCLOSED, REPRODUCED, DUPLICATED USED, SOLD, PUBLISHED, COMMUNICATED OR OTHERWISE DISTRIBUTED, IN WHOLE OR IN PART, FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF PENTAIR WATER INDIA PVT. LTD. THIS DOCUMENT AND ANY COPIES, IN ALL APPLICABLE FORMATS, SHALL BE RETURNED TO PENTAIR WATER INDIA PVT, LTD, UPON REQUEST.

ALL INDICATED PENTAIR TRADEMARKS AND LOGOS ARE PROPERTY OF PENTAIR.THIRD PARTY REGISTERED AND UNREGISTERED TRADEMARKS AND LOGOS ARE PROPERTY OF THEIR RESPECTIVE OWNERS.BECAUSE WE ARE CONTINUOSLY IMPROVING OUR PRODUCTS AND SERVICES, PENTAIR RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT PRIOR NOTICE. PENTAIR IS AN EQUAL OPPORTUNITY EMPLOYER.

©2021 Pentair. All Rights Reserved.





PT Watermart Perkasa

Email: sales@water.co.id Phone: +62-21-316-1671 Whatsapp (text only): +62815-8609-3500 Website: www.water.co.id