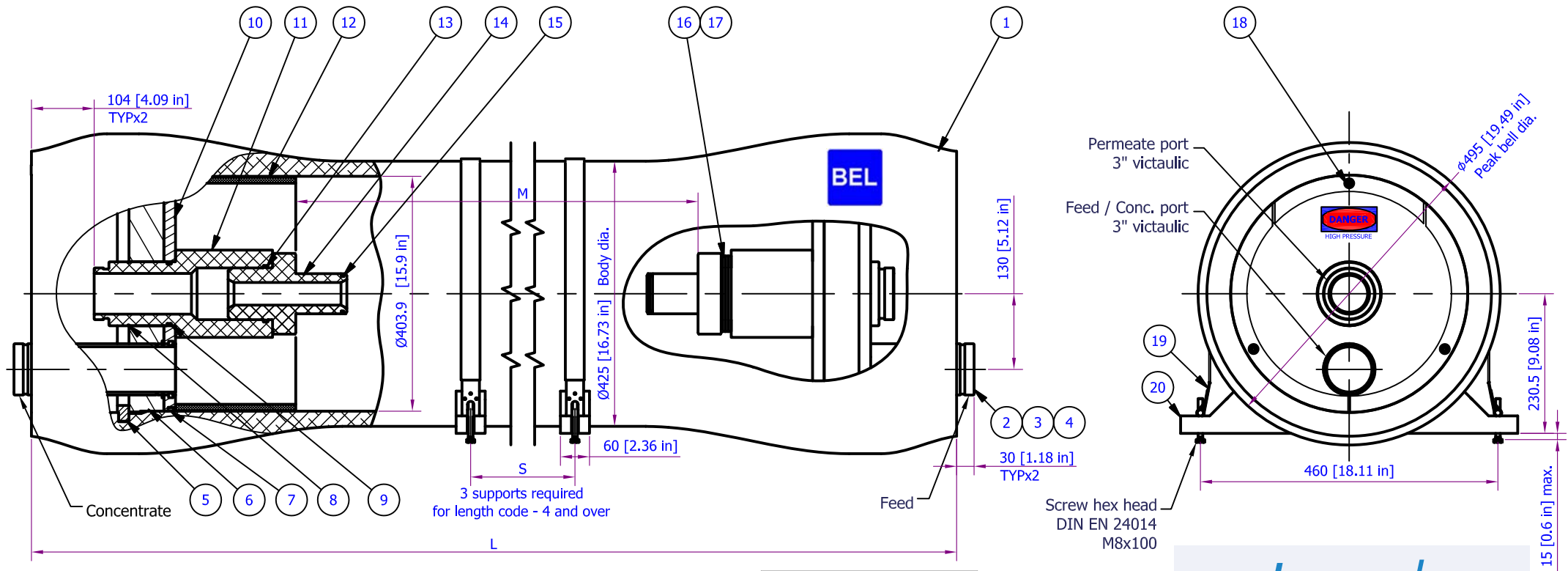




This drawing is an integral part
of the general statement of use
and technical manual

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Notes:

1. All dimensions are for reference only, not for construction unless certified.
2. Dimensions L,P,M can be varied according to exact membrane type.
3. Item 18 & 19 should be located on feed side for membranes shimming.
4. Item 14 downstream only.
5. Item 20 - closing torque not to exceed 2 Nm.
6. Drawing unit: mm. (inches).
7. Saddles can be shimmed if required.
8. The vessel is supplied with two straps for external saddles.
9. Do not scale drawing, may be reprinted on any paper size or copied.

Warning:

1. Never pressurize a pressure vessel that was not loaded with membrane elements.
2. Wrong manifolding may effect an excessive pressure on port what can lead to leaks.
3. Max. allowable working pressure not to exceed 450 psi. (31 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 49°C (120°F).

BEL	TITLE		DESIGN	Daria P.	16/06/2011
	BEL 16-E-450 psi.		CHECK	Yuri V.	16/06/2011
	RO PRESSURE VESSEL				
DRAWING NO.		16e450	APPR.	Ari A.	16/06/2011
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Item	Part number	Q-ty	Title	Material
1	16-0-450	1	Body of PV	GFRP
2	009-306-0450	2	End port 3"	Stainless steel
3	011-300-1202	4	Retaining ring	Stainless steel
4	007-089-0035	2	Seal for port	EPDM
5	005-661-0600	2	Support ring	Aluminum
6	003-165-0453	2	Base plate	Aluminum
7	007-402-0084	2	Seal for S.plate	EPDM
8	011-420-1202	2	Retaining ring	Stainless steel
9	007-112-0053	2	Seal for P.port	EPDM
10	013-165-1200	2	Sealing plate	Engineering plastic
11	008-160-0403	2	Permeate port	Engineering plastic
12	004-165-1040	1	Thrust ring	Engineering plastic
13	007-099-0053	2	Seal for adapter	EPDM
14	As required	2	Adapter	Engineering plastic
15	As required	2	Membrane seal	EPDM
16	010-160-9001	3	Spacer 1mm.	Engineering plastic
17	010-160-9005	2-8	Spacer 5mm.	Engineering plastic
18	016-002-0845	6	Socket screw	Stainless steel
19	015-160-0000	2	Strap assy.	Stainless steel
20	012-160-0000	2-3	Saddle	Engineering plastic
21				

Shell length code	L (l.o.a.), mm. inch	M, length for membrane elements, mm. / inch	S # (span) mm. inch	W weight kg. lb.
1	1891	1107	460	153
	74.45	43.6	18.1	338
2	2923	2139	1460	182
	115.08	84.2	57.5	401
3	3955	3171	2460	210
	155.71	124.8	96.9	463
4	4987	4203	3180	238
	196.34	165.5	125.2	526
5	6019	5235	4210	267
	236.97	206.1	165.7	589
6	7051	6267	5230	295
	277.60	246.7	205.9	651
7	8083	7299	6260	324
	318.23	287.4	246.5	714
8	9115	8331	7290	352
	358.86	328	287.0	777