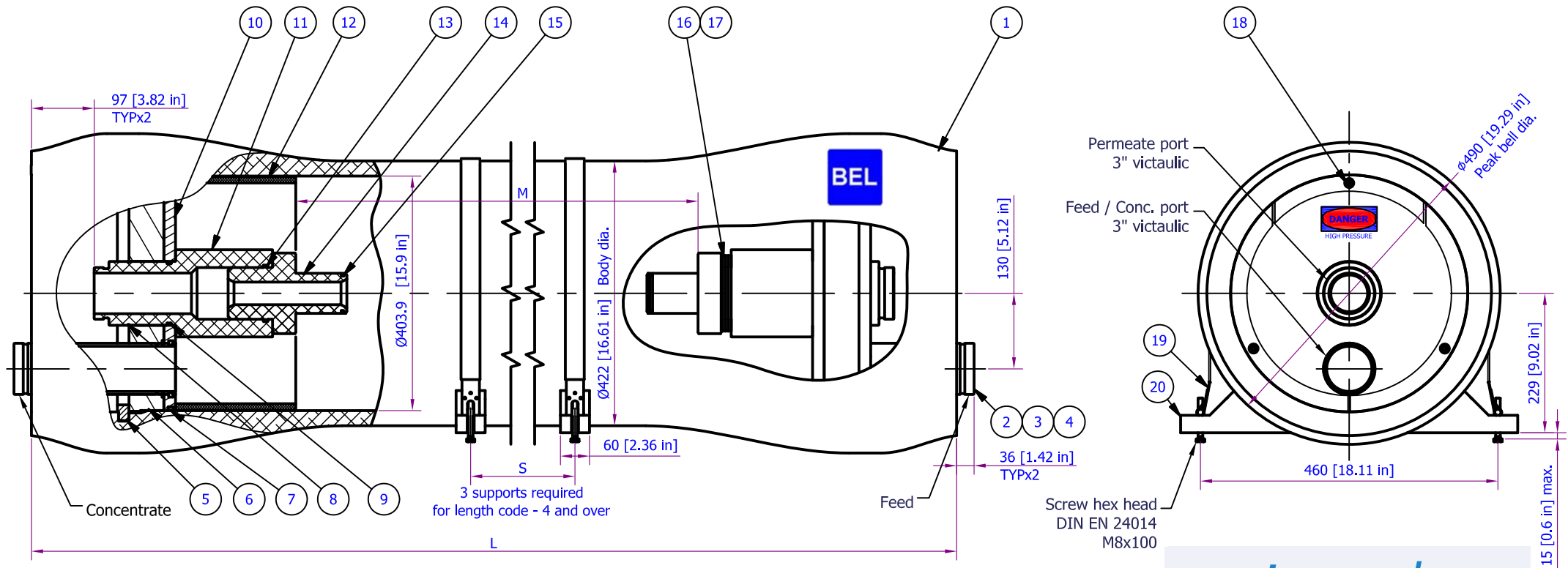




This drawing is an integral part  
of the general statement of use  
and technical manual

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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 300 psi. (20.7 bar).
4. Permeate internal pressure not to exceed 125 psi. (8.6 bar).
5. Operating temperature not to exceed 49°C (120°F).

|                                                                                                                                                                         |                    |  |        |              |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--|--------|--------------|------------|
| <b>BEL</b>                                                                                                                                                              | TITLE              |  | DESIGN | Daria P.     | 16/06/2011 |
|                                                                                                                                                                         | BEL 16-E-300 psi.  |  | CHECK  | Yuri V.      | 16/06/2011 |
|                                                                                                                                                                         | RO PRESSURE VESSEL |  |        |              |            |
| DRAWING NO.                                                                                                                                                             | 16e300             |  | APPR.  | Ari A.       | 16/06/2011 |
| THIS DRAWING IS PROPERTY OF BEL GROUP LIMITED IT IS STRICTLY FORBIDDEN TO USE, COPY, REPRODUCE OR DISCLOSE ANY PART OF IT TO THIRD PARTY WITHOUT WRITTEN AUTHORIZATION. |                    |  |        | Sheet 1 Of 1 | REV.:P0    |

| Item | Part number  | Q-ty | Title            | Material            |
|------|--------------|------|------------------|---------------------|
| 1    | 16-0-300     | 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                 | 1877                 | 1107                                        | 460                 | 145              |
|                   | 73.90                | 43.6                                        | 18.1                | 321              |
| 2                 | 2909                 | 2139                                        | 1460                | 170              |
|                   | 114.53               | 84.2                                        | 57.5                | 374              |
| 3                 | 3941                 | 3171                                        | 2460                | 194              |
|                   | 155.16               | 124.8                                       | 96.9                | 428              |
| 4                 | 4973                 | 4203                                        | 3180                | 218              |
|                   | 195.79               | 165.5                                       | 125.2               | 481              |
| 5                 | 6005                 | 5235                                        | 4210                | 243              |
|                   | 236.42               | 206.1                                       | 165.7               | 535              |
| 6                 | 7037                 | 6267                                        | 5230                | 267              |
|                   | 277.05               | 246.7                                       | 205.9               | 588              |
| 7                 | 8069                 | 7299                                        | 6260                | 291              |
|                   | 317.68               | 287.4                                       | 246.5               | 642              |
| 8                 | 9101                 | 8331                                        | 7290                | 315              |
|                   | 358.31               | 328                                         | 287.0               | 696              |