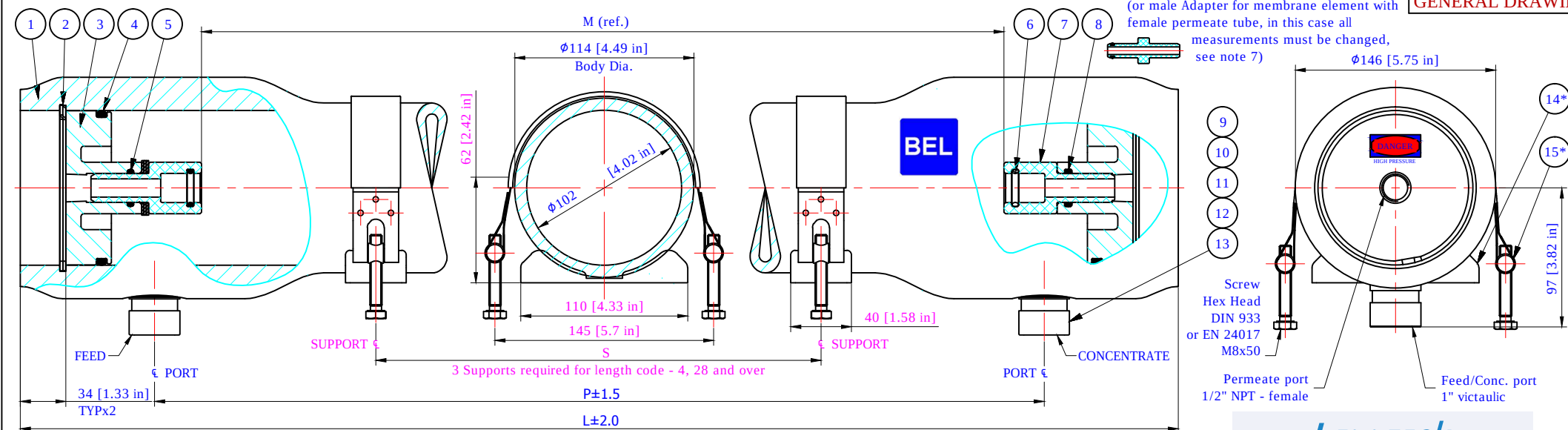




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## Notes:

- All dimensions are for reference only, not for construction unless certified.
- \* - Item 14 & 15 are optional. Delivered upon request. Priced separately.
- Drawing unit: mm. (inches).
- Saddles can be shimmed if required.
- Do not scale drawing, may be reprinted on any paper size or copied.
- The vessel is supplied with two strap assembly.
- For further information please contact BEL

| Item | Part number  | Q-ty | Title                   | Material            |
|------|--------------|------|-------------------------|---------------------|
| 1    | 41450-0      | 1    | Body of Pressure Vessel | Glass/Epoxy         |
| 2    | 55410208     | 2    | Retaining ring          | 316 stainless steel |
| 3    | 003-400-0005 | 2    | Base plate              | Engineering plastic |
| 4    | 55412360     | 2    | Seal for base plate     | EPDM                |
| 5    | 55412377     | 0-6  | Disk spacer             | Engineering plastic |
| 6    | As required  | 2    | Membrane seal           | EPDM                |
| 7    | As required  | 2    | Adapter                 | Engineering plastic |
| 8    | 55412367     | 2    | Seal for Adapter        | EPDM                |
| 9    | 009-106-0450 | 2    | F/C Port                | 316 stainless steel |
| 10   | 014-100-0505 | 2    | Seal for F/C Port       | EPDM                |
| 11   | 006-112-1202 | 2    | Disk for F/C Port       | 304 stainless steel |
| 12   | 011-100-1202 | 2    | Retaining ring          | 316 stainless steel |
| 13   | 55412368     | 2    | Retaining ring          | 316 stainless steel |

## -Vessel support parts -optional -

|      |          |     |        |                     |
|------|----------|-----|--------|---------------------|
| 14 * | 55410352 | 2-3 | Saddle | Engineering plastic |
| 15 * | 55410246 | 2   | Strap  | 316 stainless steel |

|                                                                                                                                                                         |             |                                        |        |         |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|--------|---------|------------|
| BEL                                                                                                                                                                     | TITLE       | BEL 4-S-450 psi.<br>RO PRESSURE VESSEL | DESIGN | NAME    | DATE       |
|                                                                                                                                                                         |             |                                        | CHECK  | Yuri V. | 30/07/2014 |
| DRAWING No.                                                                                                                                                             | BEL 4-S-450 |                                        | APPR.  | Ari A.  | 30/07/2014 |
| 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. |             |                                        |        |         | REV.: 4    |

Table №1 for membrane length 21" ( 533.4mm. ).  
Table №2 for membrane length 40" ( 1016mm. ).

| Shell length code | L (l.o.a.) mm. inch | P port to port, mm. Inch | S # (span) mm. inch | M, mm/in length for membranes elements (with membrane type) | W weight kg. lb. | Article number |
|-------------------|---------------------|--------------------------|---------------------|-------------------------------------------------------------|------------------|----------------|
| 1                 | 1208<br>47.6        | 1025<br>40.4             | 710<br>28           | 1020<br>40.2                                                | 970<br>38.2      | 8<br>41450-1   |
| 2                 | 2224<br>87.6        | 2041<br>80.4             | 1550<br>61          | 2036<br>80.2                                                | 1986<br>78.2     | 13<br>28       |
| 3                 | 3240<br>127.6       | 3057<br>120.4            | 2550<br>100         | 3052<br>120.2                                               | 3002<br>118.2    | 18<br>39       |
| 4                 | 4256<br>167.6       | 4073<br>160.4            | 3250<br>128         | 4068<br>160.2                                               | 4018<br>158.2    | 23<br>50       |
| 5                 | 5273<br>207.6       | 5090<br>200.4            | 4250<br>167         | 5085<br>200.2                                               | 5035<br>198.2    | 28<br>61       |
| 6                 | 6291<br>247.7       | 6108<br>240.5            | 5250<br>207         | 6103<br>240.3                                               | 6053<br>238.3    | 32<br>72       |

## Warning.

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

| Shell length code | L (l.o.a.) mm. inch | P port to port, mm. Inch | S # (span) mm. inch | M, mm/in length for membranes elements | W weight kg. lb. | Article number |
|-------------------|---------------------|--------------------------|---------------------|----------------------------------------|------------------|----------------|
| 21                | 723<br>28.5         | 540<br>21.3              | 410<br>16           | 485<br>19.1                            | 6<br>12          | 41451-21       |
| 22                | 1256.5<br>49.5      | 1073.5<br>42.3           | 940<br>37           | 1018.5<br>40.1                         | 8<br>18          | 41451-22       |
| 23                | 1790<br>70.5        | 1607<br>63.3             | 1480<br>58          | 1552<br>61.1                           | 11<br>24         | 41451-23       |
| 24                | 2323.5<br>91.5      | 2140.5<br>84.3           | 2000<br>79          | 2085.5<br>82.1                         | 13<br>29         | 41451-24       |
| 25                | 2858<br>112.5       | 2675<br>105.3            | 2540<br>100         | 2620<br>103.1                          | 16<br>35         | 41451-25       |
| 26                | 3391.5<br>133.5     | 3208.5<br>126.3          | 3070<br>121         | 3153.5<br>124.2                        | 18<br>41         | 41451-26       |
| 27                | 3926.5<br>154.6     | 3743.5<br>147.4          | 3600<br>142         | 3688.5<br>145.2                        | 21<br>46         | 41451-27       |
| 28                | 4461<br>175.6       | 4278<br>168.4            | 4140<br>163         | 4223<br>166.3                          | 24<br>52         | 41451-28       |
| 29                | 4996<br>196.7       | 4813<br>189.5            | 4670<br>184         | 4758<br>187.3                          | 26<br>58         | 41451-29       |
| 30                | 5530.5<br>217.7     | 5347.5<br>210.5          | 5200<br>205         | 5292.5<br>208.4                        | 29<br>63         | 41451-30       |
| 31                | 6066<br>238.8       | 5883<br>231.6            | 5740<br>226         | 5828<br>229.4                          | 31<br>69         | 41451-31       |
| 32                | 6599.5<br>259.8     | 6416.5<br>252.6          | 6270<br>247         | 6361.5<br>250.5                        | 34<br>75         | 41451-32       |