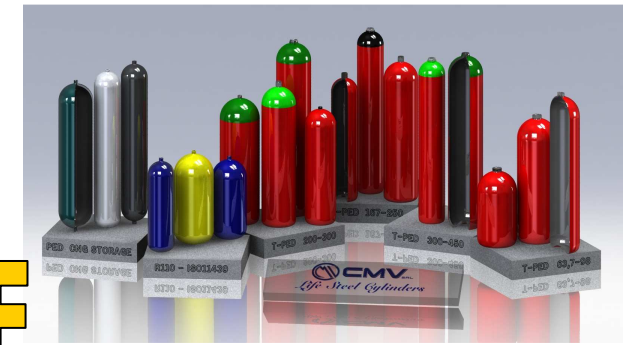


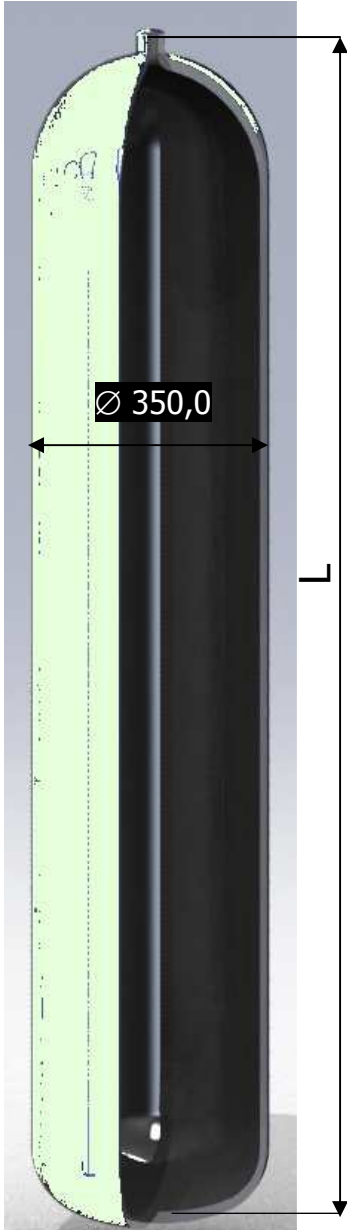
# SEAMLESS STEEL CYLINDER

## Ø 350x9 WP250 bar – TP375 bar

COMPLYING WITH 99/36/EC DIRECTIVE (T-PED)



# ONLY FOR COMMERCIAL USE



| Seamless Steel Refillable Cylinder for compressed, mixed and liquefied gases   |                      |                    |                                     |      |                      |                |                                  |      |      |
|--|----------------------|--------------------|-------------------------------------|------|----------------------|----------------|----------------------------------|------|------|
| COMPLYING WITH 99/36/CE DIRECTIVE (T-PED)  |                      |                    |                                     |      |                      |                |                                  |      |      |
| <b>REFERENCE TECHNICAL STANDARD:</b>   |                      |                    |                                     |      | EN1964-2/ ISO 9809-2 |                |                                  |      |      |
| Water capacity [l] <sup>-2,5%</sup> / <sub>+2,5%</sub>   | 50                   | 60                 | 70                                  | 80   | 100                  | 120            | 130                              | 140  | 150  |
| Nominal weight [Kg]  | 65                   | 74                 | 91                                  | 108  | 108                  | 125            | 134                              | 142  | 151  |
| Length L [mm] ±20  | 700                  | 820                | 930                                 | 1050 | 1280                 | 1510           | 1625                             | 1740 | 1850 |
| <b>MATERIAL:</b> Seamless steel tube 34CrMo4 EN 10083-1  |                      |                    |                                     |      |                      |                |                                  |      |      |
| MANUFACTURING DETAILS  |                      |                    |                                     |      |                      |                |                                  |      |      |
| MANUFACTURING PROCESS: HOT SPINNING OF SEAMLESS STEEL TUBE   |                      |                    |                                     |      |                      |                |                                  |      |      |
| HEAT TREATMENT: QUENCHING AND TEMPERING  |                      |                    |                                     |      |                      |                |                                  |      |      |
| MECHANICAL PROPERTIES (min.)   |                      |                    |                                     |      |                      |                |                                  |      |      |
| R <sub>g</sub> [MPa]   | R <sub>e</sub> [MPa] | A <sub>5</sub> [%] | KV IMPACT TEST AT -50 °C            |      |                      |                | [J/cm <sup>2</sup> ]             |      |      |
| 1100   | 860                  | 12                 | average on 3 specimens              |      |                      |                | single value                     |      |      |
| HB= 280 ÷ 320  |                      |                    | A=40; B=60                          |      |                      |                | ≥70% A; ≥70% B                   |      |      |
| DESIGN DATA  |                      |                    |                                     |      |                      |                |                                  |      |      |
| NECK THREAD<br>(Alternative thread to Customer's requirement):   | Inl. thread          |                    | Ext. thread                         |      | Ø <sub>e</sub>       | Ø <sub>i</sub> | h                                |      |      |
|  | W28.8 1/14 DIN477    |                    | -                                   |      | 45                   | -              | ≅ 25                             |      |      |
|  |                      |                    |                                     |      |                      |                |                                  |      |      |
| MINIMUM EFFECTIVE THICKNESS for the cylindrical wall, net of tolerances: <b>8.4 mm</b>   |                      |                    |                                     |      |                      |                |                                  |      |      |
| <b>Working Pressure: up to 250 bar</b>   |                      |                    | <b>Test Pressure: up to 375 bar</b> |      |                      |                | <b>Burst Pressure: ≥ 600 bar</b> |      |      |
| <b>Working temperature: -50°C +65°C</b>  |                      |                    |                                     |      |                      |                |                                  |      |      |
| Filling ratio for liquefied gases: depending from type of gas<br>Hydrogen, Carbon Monoxide and gases incompatible and/or corroding cylinder steel are excluded |                      |                    |                                     |      |                      |                |                                  |      |      |