DESCRIPTION

The OMB 700 bar H2 valve is a multifunctional valve to be assembled on a tank system, for stationary or automotive usage. The valve is equipped with the following components:

- Single inlet/outlet port
- Solenoid valve electronically controlled;
- Manual safety tap, to be used in order to isolate the automatic valve (in case of failure or maintenance);
- Bleed Valve, directly connected to the tank (in order to by-pass the excess flow, the manual valve and the solenoid valve);
- Thermal PRD (pressure relief device to prevent the explosion of the tank due to fire, based on a glass bulb concept)
- Two Filter 10 micron
- Tank connection
- Fueling Check valve
- Temperature sensor
- Excess flow valve (flow limiter)

CERTIFICATION

Defueling Architecture:
- [EFV] Excess Flow
- [FSUD] N/O Defueling CV
- [FILTER] Defueling Filter

Inlet/Outlet Fitting
- (+ Inlet Filter [1.443 5])

Standard Valve Lay Out

- [MV] Manual Valve [SCP-5000]
- [BD] Bleed Device [SCP-5000]
- (+ BD Cap O-ring)

Weight: 1.7 kg
34.8 mm height outside the tank

TFRD Vent Port

TFRD Device

T-sensor

Coil
The valve can be customized according to client specific requirements.

### AVAILABLE VERSIONS

<table>
<thead>
<tr>
<th>Picture</th>
<th>Articolo/Codice</th>
<th>Description</th>
<th>Tank Connection</th>
<th>Thread Length</th>
<th>In/Out - Material</th>
<th>Check Valve Int. Leakage</th>
<th>Coil *</th>
<th>T-sensor</th>
<th>TPRD vent hole</th>
<th>kv value</th>
<th>Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>870.88.875</td>
<td>OTV VALVE(H2) M4x52 TPRD VENT</td>
<td>M4 x 2</td>
<td>42.5</td>
<td>9/16-18 UNF SUS 316L</td>
<td>14 bar</td>
<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
<td>Φ = 2 mm</td>
<td>Fueling = 0.17 Defueling = 0.10</td>
<td>7/16-20 UNF - 2B</td>
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<td>M4 x 2</td>
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<td>9/16-18 UNF SUS 316L</td>
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<td>Nom. Resistance 10 kΩ</td>
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<tr>
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<td>870.88.934</td>
<td>OTV ASS.1’1/2-12UNF(L40501.1)</td>
<td>1 1/2-12 UNF</td>
<td>40</td>
<td>9/16-18 UNF SUS 316L</td>
<td>14 bar</td>
<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
<td>Φ = 2 mm</td>
<td>Fueling = 0.17 Defueling = 0.10</td>
<td>7/16-20 UNF - 2B</td>
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<td>14 bar</td>
<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
<td>Φ = 2 mm</td>
<td>Fueling = 0.17 Defueling = 0.10</td>
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<td>OTV 1’1/2-12 FITTING M12X1.5</td>
<td>1 1/2-12 UNF</td>
<td>40</td>
<td>M12 x 1.5 (Male) 1.4435</td>
<td>14 bar</td>
<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
<td>Φ = 2 mm</td>
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<td>14 bar</td>
<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
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<td>Nom. Resistance 10 kΩ</td>
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<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
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<td>7/16-20 UNF (Male) SUS 316L</td>
<td>14 bar</td>
<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
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<td>OTV ASSEMBLY W/O TSEN</td>
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<td>M12 x 1.5 (Male) T200-660D</td>
<td>5 bar</td>
<td>12 V</td>
<td>No T-Sensor</td>
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<td>M12 x 1.5 (Male) 1.4435</td>
<td>5 bar</td>
<td>12 V</td>
<td>No T-Sensor</td>
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<td>Fueling = 0.17 Defueling = 0.10</td>
<td>No adapter</td>
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<td>872.88.400</td>
<td>OMB Hydrogen On-Tank Valve [Stem 1’1/2-12 UNF (L40501.1) &amp; Fitting M14x1.5]</td>
<td>1 1/2-12 UNF</td>
<td>40</td>
<td>M14 x 1.5 (Male) AUS 316L - H2</td>
<td>14 bar</td>
<td>12 V</td>
<td>Nom. Resistance 10 kΩ</td>
<td>Φ = 2 mm</td>
<td>Fueling = 0.17 Defueling = 0.10</td>
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<td>872.88.900</td>
<td>On Tank Valve [Stem 1’1/2 UNF - L40501 - Separate In/Out 9/16-18 UNF]</td>
<td>1 1/2-12 UNF</td>
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<td>Fueling = 0.17 Defueling = 0.10</td>
<td>7/16-20 UNF - 2B</td>
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</tbody>
</table>

* Peak and hold with PWM between 2 and 10 KHz is required, check user manual for additional information.

### CERTIFICATION


### COMPLEMENTARY INSTALLATION TOOL

The tool is necessary to install the valve on the tank and apply the proper torque according to the user manual.

P/N 870.88.167