Couplers
CCMY8500M3 series four-inch A.P.I. Pressure Control coupler

The CCMY8500M3 Series Four-inch A.P.I. Coupler has been designed to comply with all the operational and test requirements of the EI Standard Specification (EI 1584) for Four-inch Hydrant system components and arrangements.
Fuelling products

Couplers

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Operation

Four-inch Pressure Control Valve with deadman. This valve has been designed for use with aviation kerosenes and gasoline on refuelling vehicles. It regulates downstream pressure regardless of input pressure or flow rate and incorporates a deadman facility. The valve is air referenced and has a typical bias of 10-12 psi at full flow, (1000gpm-1200 US gpm). The total pressure drop through the valves approximately 14psi at 1000 Imp gpm (1200US GPM). A pressure relief valve between coupler and pressure control valve automatically breaks the hydraulic lock on closure of the coupler.
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General Information

COUPLER

POLYURETHANE BUMPER
Resists abrasion.

LOCKING AND INTERLOCKING
Positive connection between Pit Valve and Coupler by means of 6 latches. The poppet valve is prevented from opening when the Coupler is disconnected. The Coupler cannot be disconnected when the poppet valve is open.

EASY SERVICING
The Coupler may be completely dismantled and serviced from the A.P.I. end thus avoiding the need for removal from the pressure controller. The nose seal may be renewed while the unit is under system pressure.

ASSOCIATED EQUIPMENT
Pressure control valve with deadman.

Construction throughout is mainly of high strength aluminium alloy and stainless steel. All wetted parts are of aluminium and stainless steel incorporating fuel resistant seals. All other components are protected against corrosion.

SMOOTH OPENING AND CLOSING
Approximately ten seconds to 'full flow'. Approximately five seconds to 'no flow'. Precise ramped closure prevents vacuum within coupler hose.

PRESSURE CONTROL
+ 2 psi

LOW BIAS Typically
10-12 psi

LOW HYSTERESIS
For details, see graphs.
Rapid response to surge pressures.

FAIL / SAFE
Valve will close even if controlling diaphragm ruptures.
Fuelling products

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Specification

<table>
<thead>
<tr>
<th>WEIGHT, PRESSURE DROP PRESSURE RATING</th>
<th>COUPLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT</td>
<td>16.7 kg</td>
</tr>
<tr>
<td>PRESSURE DROP</td>
<td>less than 1.6 bar at 4500 l/min</td>
</tr>
<tr>
<td></td>
<td>less than 17 psi at 1000 Imp gpm</td>
</tr>
<tr>
<td></td>
<td>(1200 US gpm)</td>
</tr>
<tr>
<td>PRESSURE DROP</td>
<td>MAX. WORKING</td>
</tr>
<tr>
<td></td>
<td>15 bar, 225 psi</td>
</tr>
<tr>
<td>TEST PRESSURE</td>
<td>23 bar, 338 psi</td>
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<tr>
<td>PROOF PRESSURE COUPLED</td>
<td>78 bar, 1100 psi</td>
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Ordering Information

<table>
<thead>
<tr>
<th>CONFIGURATIONS</th>
<th>CODE NO.</th>
</tr>
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<tbody>
<tr>
<td>Coupler with Pressure Controller</td>
<td>CCMY8500M3</td>
</tr>
<tr>
<td>with Trolley</td>
<td></td>
</tr>
<tr>
<td>Thread forms</td>
<td></td>
</tr>
<tr>
<td>add suffix T</td>
<td></td>
</tr>
<tr>
<td>add suffix B for BSP or N for NPT</td>
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</tbody>
</table>

The Meggitt fluid management equipment is developed as a private venture and the policy of the company is one of continuing improvement; therefore the right to change prices, specification and equipment at any time without notice is reserved.

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