Subsea Solenoid Valve
Model FPS01
up to 690 bar, 1 litre per minute

Superior performance throughout the full operational range

Features:

- Fully seawater compatible
- Contamination tolerant: fluids > NAS1638 Class 12
- Operating temperatures up to 125°C
- 3000 metre water depth
- Cable connector options
TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION
All valve bodies: Stainless steel 316L
Internal components: Stainless steel 316L, Monel K500, Inconel 718, MP35N
Fasteners: A4 18/10 316 grade stainless steel
Springs: Elgiloy
Seating: Ceramic ball to MP35N
Solenoid: Apticote 460G plated ENIA steel, 316 stainless steel cable connector block
Seals: Nitrile (standard). Alternative elastomers available for extreme conditions

MEDIA:
Mineral oils, water glycol mixtures, sea water (filtered), some chemicals

TEMPERATURE RANGE:
20°C to 125°C (see solenoid options)

WORKING PRESSURE:
Up to 690 Bar (10,000 PSI). Maximum working pressure varies according to valve model.
Refer to ordering code.

WORKING DEPTH:
3000 metres.

LAST CHANCE FILTRATION:
A 40 micron, sintered stainless steel, filter disc is fitted as standard. This may be omitted for an improved flow when alternative last chance filtration is installed in the system upstream of the valve.

FLOW PERFORMANCE

Cv = 0.010, with integral filter disc
Cv = 0.013, without filter disc
**SELECTION CHART**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Single/Dual Coil</th>
<th>Power Consumption</th>
<th>Voltage 75% - 120%</th>
<th>Temperature Rating</th>
<th>Cable Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>90S</td>
<td>D</td>
<td>15</td>
<td>24VDC</td>
<td>-20°C to +50°C</td>
<td>Hydrobond (x4)</td>
</tr>
<tr>
<td>90SKE</td>
<td>D</td>
<td>15</td>
<td>24VDC</td>
<td>-20°C to +125°C</td>
<td>Kemlon (x2)</td>
</tr>
<tr>
<td>90/M25</td>
<td>D</td>
<td>15</td>
<td>24VDC</td>
<td>-20°C to +50°C</td>
<td>M25 Bennex</td>
</tr>
<tr>
<td>90S/FL</td>
<td>D</td>
<td>15</td>
<td>24VDC</td>
<td>-20°C to +50°C</td>
<td>18” flying leads</td>
</tr>
</tbody>
</table>

**SOLENOID OPTIONS**

Model Shown: FPS01/S1/M/32/NC/V-24VDC/90S

Electrical connections vary with customer specification

Standard Test Fluid: Marston Bentley HW540

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Quality Assurance
All Bifold Fluidpower products are manufactured to a most stringent QA programme. Every care is taken at all stages of manufacture to ensure that every product will give optimum performance and reliability. We are recognised to EN ISO 9001:2000. Functional test certificate, letter of conformity and copies of original mill certificates, providing total traceability are available on request, to BSEN 10204 3.1.B where available. The manufacturer reserves the right to make changes to the specifications and design etc., without prior notice.

Accuracy of information
We take care to ensure that product information in this catalogue is reasonably accurate and up-to-date. However, our products and services are continually updated so to ensure accurate and up-to-date information please refer to the issue list on the web site or contact a member of our sales team.

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