

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 upto 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 (10,000PSI). Maximum working pressure varies according to valve model.
Refer to ordering code.

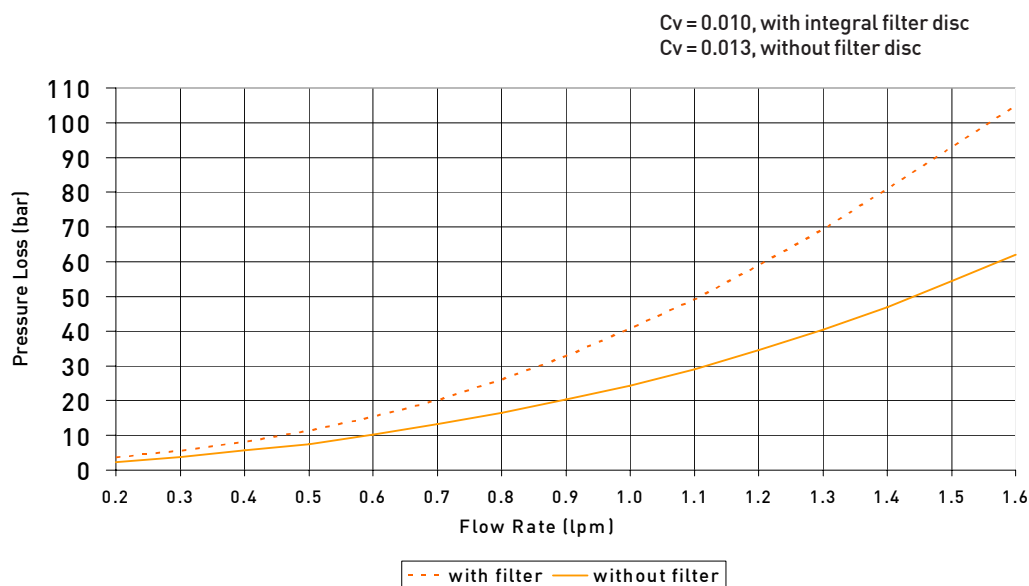
WORKING DEPTH:

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



SELECTION CHART

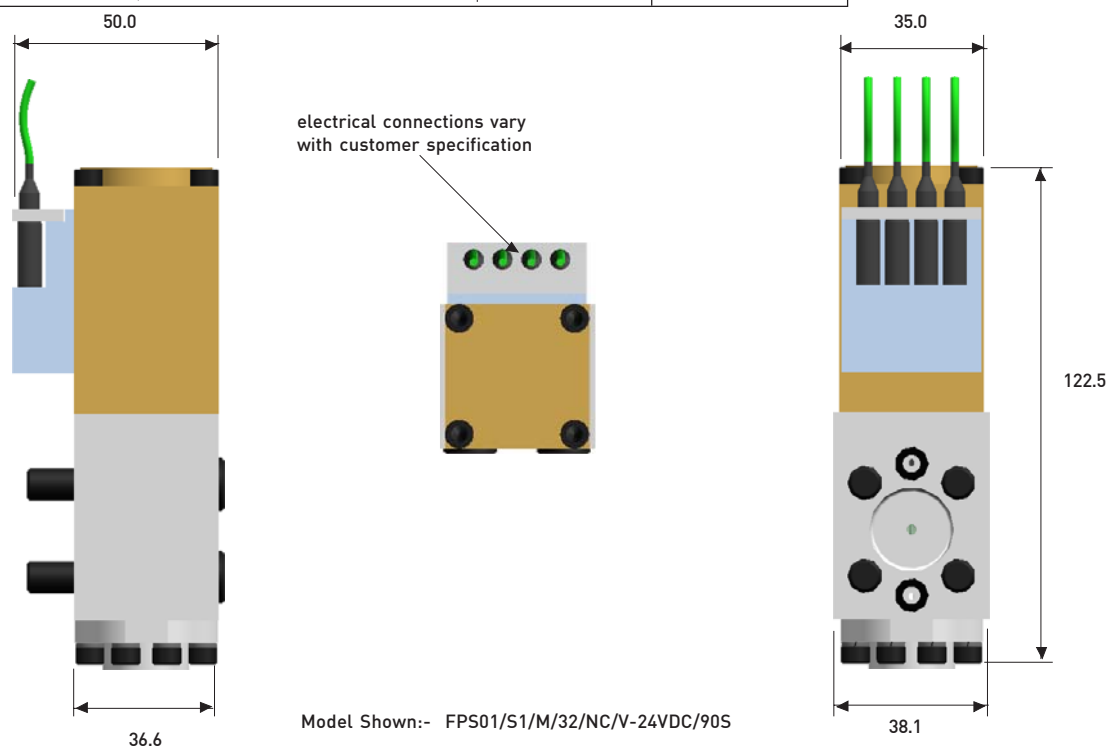
FPS01			Model Code
S1 S2 S3		345bar 518bar 690bar	Maximum Valve Pressure
M M2	Interface for mainstage valves type FPS10 To suit subbase M411/02 (1/4" NPT)	Subbase Mounting	Connections
32	3 - way, 2 - position		Configuration
NC NO	Normally Closed Normally Open		
S V	Nitrile (standard) [-30°C to +130°C] Viton [-20°C to +180°C]		O-ring material
XXX	(Refer to solenoid options)		Voltage
XXX	(Refer to solenoid options)		Solenoid
FPS01 / S1 / M / 32 / NC / V -24VDC / 90S			Code example

Standard Test Fluid: Marston Bentley HW540

SOLENOID OPTIONS

ORDER CODE	SINGLE/ DUAL COIL	POWER CONSUMPTION	VOLTAGE 75% - 120%	TEMPERATURE RATING	CABLE CONNECTION
90S	D	15	24VDC	-20°C to +50°C	Hydrobond (x4)
90SKE	D	15	24VDC	-20°C to +125°C	Kemlon (x2)
90/M25	D	15	24VDC	-20°C to +50°C	M25 Bennex
90S/FL	D	15	24VDC	-20°C to + 50°C	18" flying leads

see front page photograph



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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.

