

# Direct and Indirect Acting Solenoid Valves Models FP03P, FP06P, FP10P, FP12P, SJ06, S06/S09/S12 & SPR







# Superior Performance Throughout the Full Operational Range

- SIL 3 Third Party Certified
- Solenoid Free to Rotate Through 360°
- 316 Stainless Steel Solenoid Housing and Valve
- Arctic Service Options to -60°C
- Low Power
- High Flow
- Up to 35 bar Working Pressure

# **Port Connections**

# **Port Connections (FP03P Only)**

PORT CONNECTIONS TABLE				
Configuration	Pressure	Service	Vent	
Normally Closed	I	2	3	

For port connections please refer to selection chart ordering example. Page 14.

# Bifold®

# Port Connections for (FP06P, FP10P, FP12P, SJ06,S06/S09/S12 & SPR)

PORT CONNECTIONS TABLE					
Configuration	Pressure	Service	Vent		
Normally Closed	I	2	3		
Normally Open	3	2	I		
Selector	1 & 3	2	N/A		
Diverter	2	1 & 3	N/A		

For port connections please refer to selection chart ordering example. Pages 15, 16, 17, 18, 19 & 20.

# **Product Weights**

# **Approximate Standard Product Weights**

PRODUCT WEIGHTS			
Product	Approximate Weight (Kg)		
FP03P	1.75		
FP06P	2.1		
FP10P	2.5		
FP12P	3.0		
SJ06	2.7		
S06/S09/S12	3.4		
SPR	3.2		

For more information, please contact Bifold Sales Department.

# **Seal Repair Kit**

# Seal Repair Kit Selection Chart - Ordering Example (FP03P, FP06P, FP10P & FP12P)

SRK		Seal Repair Kit
FP03P FP06P FP10P FP12P		Model Code
	Nitrile (-20°C to +130°C) Viton (Standard) (-20°C to +180°C) Silicone (-60°C to +180°C) Fluorosilicone (-60°C to +180°C)	O-ring Material
	XX	Revision Number
SRK-FP06P-V	'-XX	Ordering Example

For SJ06, S06/S09/S12 & SPR, please contact Bifold Sales Department.

# **Solenoid Coil Spare**

# Solenoid Coil Spare Selection Chart - Ordering Example (FP03P, FP10P & FP12P)

-	
09	Coil Type
<b>XXX</b> Voltage 74 (Ex emb) 24 & 48 Vdc 77 (Ex d) 12, 24, 48 &110 Vdc 77 (Ex d) 110 & 240 Vac	Voltage
<b>XX</b> Power (W) 74 (Ex emb) 1.8, 3.6, 4.4 & 6.8 Watts 77 (Ex d) 3.0, 3.5, 5.7 & 12 Watts	Power
09-24DC-30	Ordering Example

For solenoid operator Type 78 (Ex ia), the coil spare ordering code is shown below:-

### 109-12-370 Ohms

For solenoid operator Type 77 (Ex d) Vac, the coil spare ordering example is shown below:-

### 109-110AC-57

For detailed information, please contact Bifold Sales Department.

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

When selecting a product, the applicable operating system design must be considered to ensure safe use. The product function, material compatibility, adequate ratings, correct installation, operation and maintenance are the responsibilities of the system designer and user.

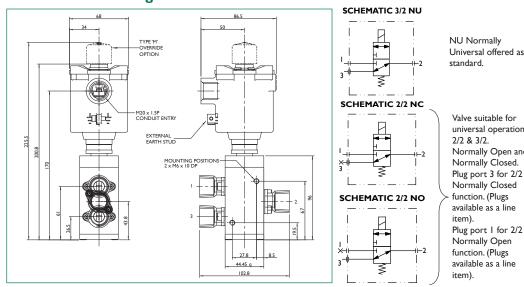
Quality Assurance
All Biolol products are manufactured to a most stringent
QA programme to ensure that every product will give optimu
performance and reliability. We are third parry certified to EN
SCO 9001/2008. Functional test certificate, letter
of conformity and copies of original mill certificates, providing
prost transpositivity are available on censures in RSRN 10/04 & 11 EN

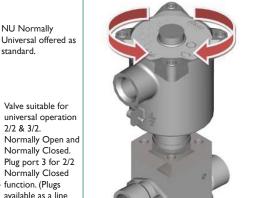


# FPI2P



## **Dimensional Drawings**





### FP12P Selection Chart - Ordering Example

2P	Model Code
SI 10 bar maximum valve pressure - standard	Operator
08 ½" NPT body ported	Connections
32 3-way, 2-position	Valve Configuration
NU Normally Universal	
S Nitrile (-20°C to +130°C) V Viton (standard) (-20°C to +180°C) AG Silicone (-60°C to +180°C) AL Fluorosilicone (-60°C to +180°C)  For maximum operating temperatures see 'T' Rating Limitations for Ex d on page 12.	O-ring Material
<b>XX</b> Refer to Solenoid options tables. 77 (Ex d) Page 12 - Table 2	Solenoid *
A ATEX/IECEx Dual Certified/Labelled  G GOST I INMETRO N NEPSI* U CSA (US) ATEX Dual Certified/Labelled	Solenoid Approval
3 T4 IIC 77 (Ex d) See 'T' Rating Limitations for Ex d 6 T5 IIC 77 (Ex d) on page 12.	T-Rating & Gas Gro
to Solenoid 77 (Ex d) Page 12 - Table 2 option tables	Voltage
M Electrical to switch or temporary manual override ML Electrical and manual required to latch or temporary manual override (3.0 Watts Ex d Only) MLT Electrical and manual required to latch - tamperproof	Options
<ul> <li>120 I 2 Watts - auto reset Page I 2 - Table 2</li> <li>65 6.5 Watts - manual reset only (ML)</li> </ul>	Power
K6 BSPP ports	Option
K85 ½" NPT conduit entry	Option
	Revision Number
P-SI-08-32-NU-V-77 A 9-24D-ML-65-K6-K85-XX	Ordering Example

For green block sections, please refer to the same colour section on page 12. \* For China, please note that the solenoid operator is Type 87.