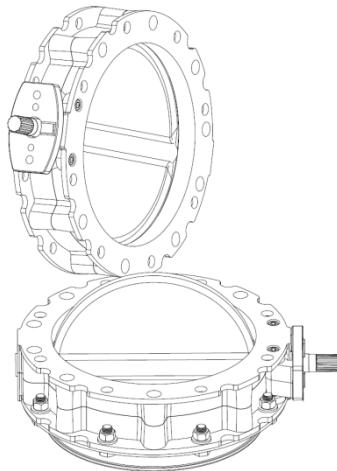


Butterfly Valve for Mixing Station

BVF Series

Introduction and Operation Manual



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URL: www.mech-mall.com

2016

1. ATTENTION:

Dear Customer, Thank you for purchasing this product and invite you to:
 - Read the instructions in this manual: they give the installation, use and maintenance of the machine.

- This machine must not be used even partially by unauthorized personnel. When the machine is running, do not service, repair, regulate the machine or carry out any other operation not strictly required by the work cycle. Before any of the above listed operations, always disconnected the machine for all electric power supply sources.

2. DESCRIPTION

TYPE SELECTION

BV1F with identical top and bottom flange and bottom joint sleeve connection

BV2F with identical top and bottom flange

VALVE BODY high pressure die-casting aluminum alloy body

VALVE DISC AISI 304 stainless steel or anti-frictional macromolecule coated carbon steel core disc

ACTUATOR CONNECTION FLANGE high pressure die-casting aluminum alloy

SEAL NBR (black) EPDM (white)

WORK TEMPERATURE Max.200 °C

阀门 Valve	重量 Weight						
	公称直径 Nominal diameter						
	100	150	200	250	300	350	400
V1FS	5	6	7	9.2	11	24	30
V2FS	5	6	6.5	8.5	10	24	30

包括单个产品的包装箱 Single packaging included

3. INSTALLATION

1. Do not hang any heavy devices directly on the valves (screw feeders, belts, air slides, vibrating feeders or similar). To fix such devices to the valve, only use stud bolts that long enough to pass through the upper connection flange, Otherwise the weight below would tend to pull apart the semi-bodies of the valve.

2. Screw on the nuts, the inside nuts have no weight bearing function. They only serve to secure the valve when the following device is stripped down.

3. Electrical and pneumatic connections must be carried out by qualified personnel ONLY.

4. Check voltage corresponds with motor plate data. Follow general safety instructions.

5. Never introduce hands in the area between valve body and disc when valve is working.

6. Especially with materials which tend to harden or become sticky through longer periods of storage ensure no material is deposited on the shaft passages. In such a case clean the area thoroughly. Start valve operation without material. If valve works correctly that can begin normal operation.

7. **NOTE:** The weight of the material column must not exceed the resistance of the mobile valve parts. Materials with bulk density $1.3t/m^3$ normally do not create problem. Regular cleaning will increase the life of the valve. Especially applies in the materials which become sticky when stored for a longer period, and viscous materials.

8. **ASSEMBLY** Put the valve in position and bolt it on carefully using nuts, bolts and stud bolts respectively. See fig.(1). Ensure the pneumatic and electrical connections correctly.

The power must be disconnected before maintaining the valve !!

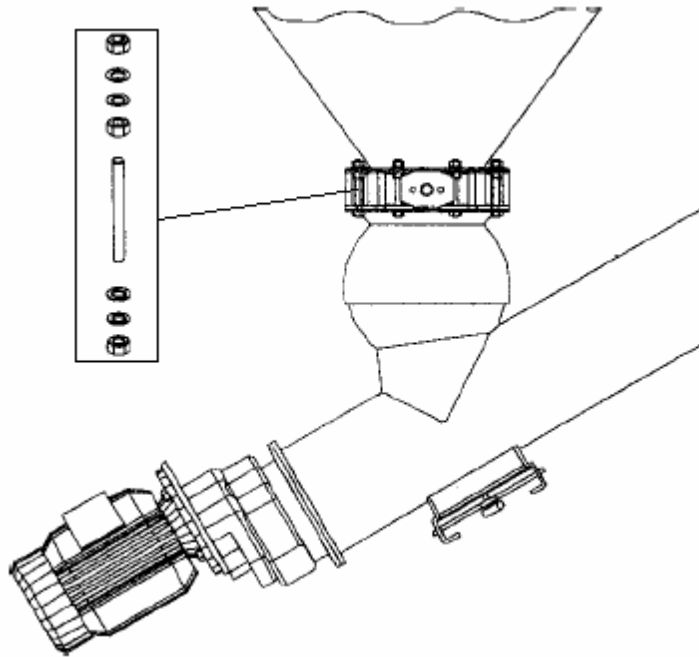


Fig. 1

4. ACCESSORIES

1. MD TYPE MANUAL ACTUATORS ASSEMBLY

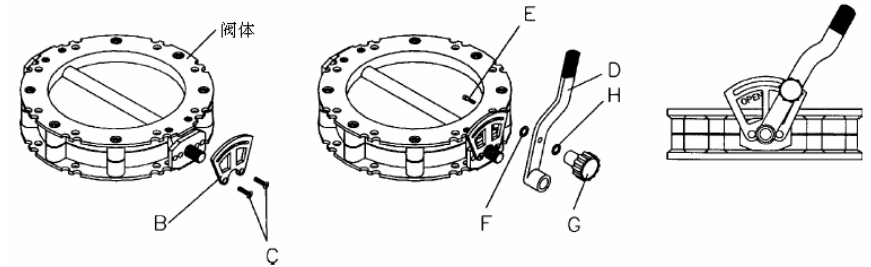


Fig.2

The parts includes:

(B) 1 lever setting mask (C) 2 countersunk hexagonal socket screws M12x25
(D) 1 lever (E) 1 knob fixing bolt (F) 1 washer (G) 1 lever fixing knob

Put the valve on a level surface. Remove the protection from disc shaft. Assemble lever setting mask (B) using the two socket screws (C) with the large side pointing upwards as shown in (fig.2)

Mount lever with bend part pointing towards the spline shaft ensuring the lever is placed in the "closed" position. Fasten the lever using knob fixing bolt (E), washer (F), and lever fixing knob (G).

2. PD TYPE ELECTROPNEUMATIC ACTUATORS

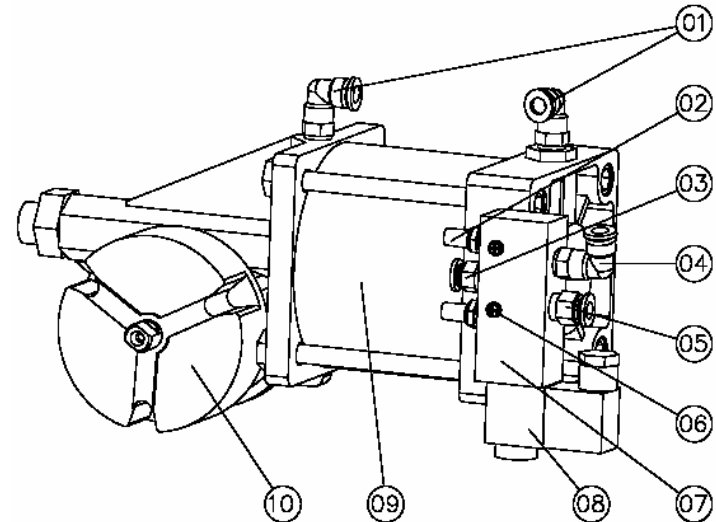
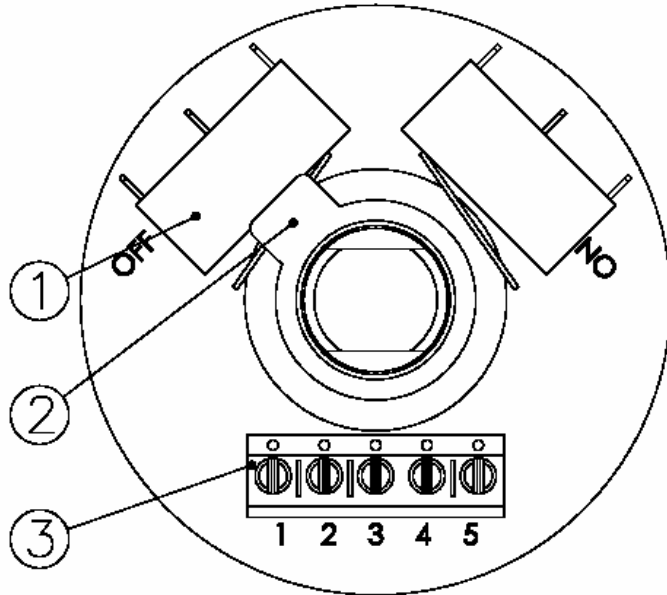


Fig.3

Actuator Parts Description

- | | |
|----------------------------------|--|
| 01 .Fast rectangular joints 8-02 | 02. BSL-01 Universal Silencer BSL-01 |
| 03. Through rapid joints 12-02 | 04.Through rapid joints 8-02 |
| 05.Through rapid joints 8-02 | 06.Cross disk head screw groove GB818-85 |
| 07. solenoid valve 4V210-08 | 08. Coil (24V or AC220V optional) |
| 09. Drive PD-100B | 10. Input and output signal box |

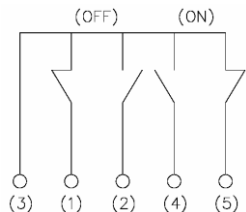
3. INPUT AND OUTPUT SIGNALS



Pictures signal wiring box

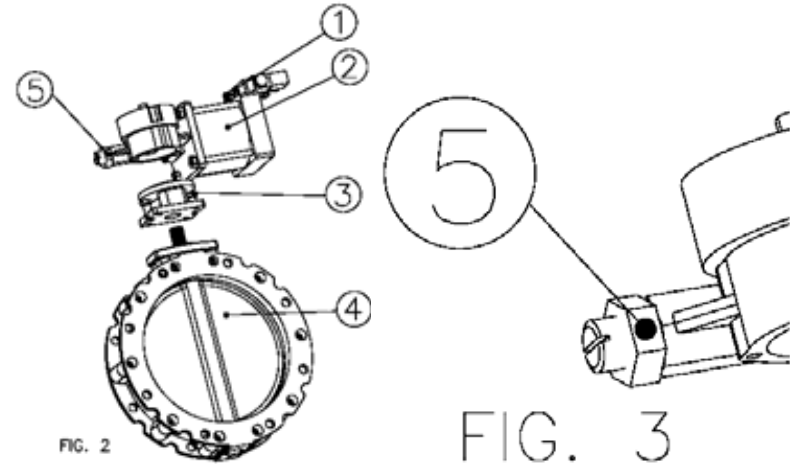
Switch box input and output current / voltage of 250 V AC 5A 150V---3A

- ① The microswitch, has " ON " and " OFF "the expression.
- ② Nylon Cam played the role of switch
- ③ Connector



- (1) often closed ends (Closed Signal)
- (2) often beginning (Closed Signal)
- (3)Public terminal
- (4) often closed ends (opening Signal)
- (5) often beginning (opening Signal)

4. PD TYPE PNEUMATIC ACTUATOR INSTALLATION



The parts includes:

- ① 4V210-08 electro valve expeditious connection and switch box
- ② electro pneumatic actuator
- ③ hexagonal bolts M12x30

Put the valve ④ on a level horizontal surface.Mount the actuator and ensure the groove of actuator is at the bulge of support of valve.Insert the two bolts M12x30③ into the support of valve and screw on firmly.

Fix the actuator ② and valve ④ in the original position. Disc is shown 90 degree open (You can see the line of the disc shaft at the rear end).

Connect the gas resources, the pilot operation; If the valve does not completely close, the piston is fully retracted:

- 1) Disconnect compressed air supply.
- 2) Loose the large nut ⑤ at the end of piston. See fig.3
- 3) Socked screw at groove of piston clockwise or anticlockwise until to the best position.
- 4) Turn the socked screw clockwise until you feel some resistance and fasten nut ⑤ in order to socket screw.
- 5) Connect compressed air supply and test it. If it has not close completely yet, do the step 2 to 4 again.

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