

VF6000 Butterfly Valve and VA300/VA200 Actuator Installation Instruction



Note: VF6000 series butterfly valve and VA300 series actuator are manufactured respectively in factories. On-site installation includes valve installation on piping and actuator assembling and wiring

! For IP67 actuator wiring:
6~12mm cable for type VA301..
10~14mm cable for type VA302~VA310..



1. Ensure that the pipeline and flange faces are clean
2. Handle the valve and actuator by the extended valve neck only
3. Never mount the butterfly valve on the piping elbow

Valve Installation

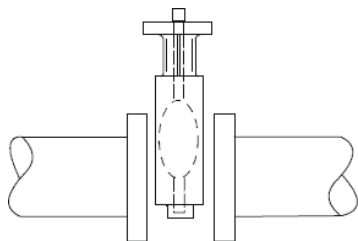


Figure 1 Flange and disc position

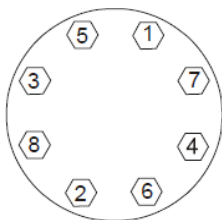


Figure 2 Bolt tightening sequence

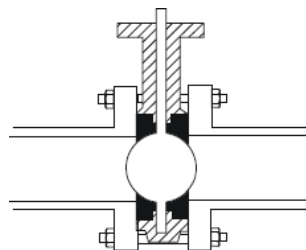


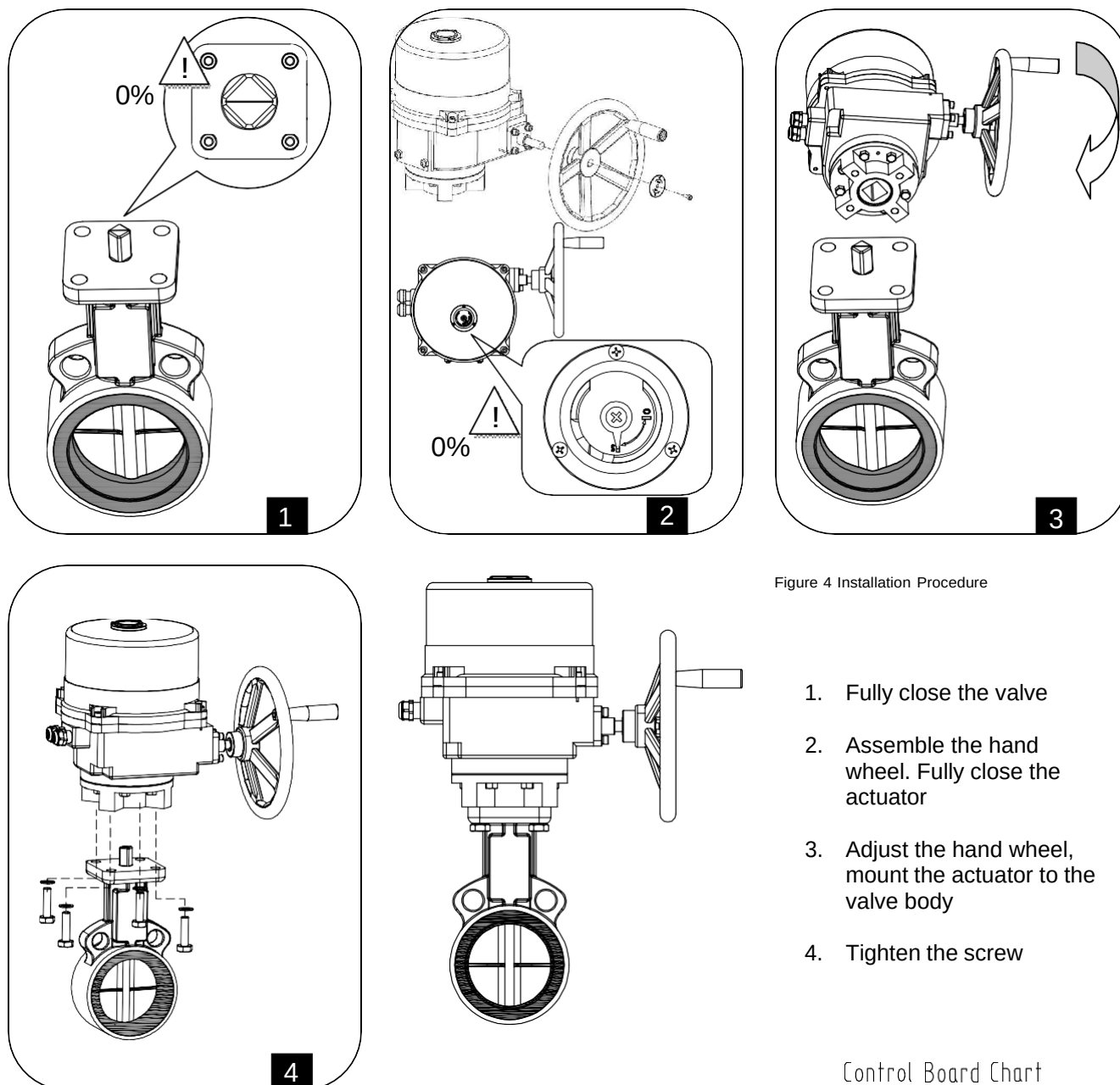
Figure 3 Pipe Alignment and Disc Orientation

1. Align the piping and spread the flanges apart enough to allow the valve body to be located between the flanges without actually contacting the flange surfaces (see Figure 1)
2. Remove the protective cardboard shields from valve faces
3. Place the valve between the flanges and center the valve
4. Install all of the flange bolts or cap screws and hand pre-tighten them.
5. Slowly open disc to fully open position, making sure that the outside diameter of disc does not contact the inside diameter of adjacent pipe.
6. Tighten the flange bolts according to the sequence in Figure 2.
7. Stroke the valve fully closed and fully open while checking for proper disc clearance and proper pipe alignment (See Figure 3).

Valve and Actuator Match Table

DN Size	Actuator Model		Valve model		
	VA300	VA200	Wafer	Lug	Flange
DN50	VA301BDC-C	VA201CDC-C	VF6461Ax-C	VF6431Ax-C	
DN60			VF6461Bx-C	VF6431Bx-C	
DN80	VA302BDCN-C	VA201CDCN-C	VF6461Cx-C	VF6431Cx-C	
DN100	VA302BDC-C		VF6461Dx-C	VF6431Dx-C	
DN125	VA303BDC-C	VA202CDC-C	VF6461Ex-C	VF6431Ex-C	
DN150		VA203CDCN-C	VF6461Fx-C	VF6431Fx-C	
DN200	VA304BDC-C	VA203CDC-C	VF6461Gx-C	VF6431Gx-C	
DN250	VA305BDC-C	VA204CDC-C	VF6461Hx-C	VF6431Hx-C	
DN300	VA306BDC-C	VA205CDC-C	VF6461Jx-C	VF6431Jx-C	
DN350		VA206CDC-C	VF6461Kx-C	VF6431Kx-C	VF6481Kx-C
DN400		VA207CDC-C	VF6461Lx-C	VF6431Lx-C	VF6481Lx-C
DN450		VA208CDC-C	VF6461Mx-C	VF6431Mx-C	VF6481Mx-C
DN500			VF6461Nx-C	VF6431Nx-C	VF6481Nx-C
DN600		VA209CDC-C	VF6461PxN-C	VF6431PxN/-C	VF6481PxN-C
DN700		VA210CDC-C	VF6461Qx-C		VF6481Qx-C
DN800		VA211CDC-C	VF6461Rx-C		VF6481Rx-C
DN900		VA212CDC-C	VF6461Tx-C		VF6481Tx-C
DN1000			VF6461Ux-C		VF6481Ux-C

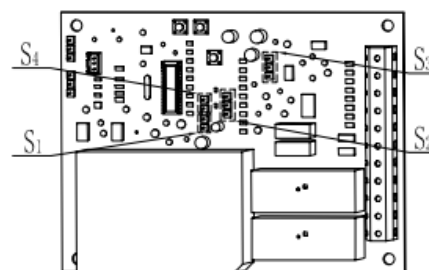
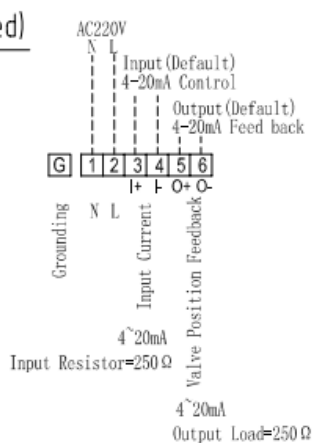
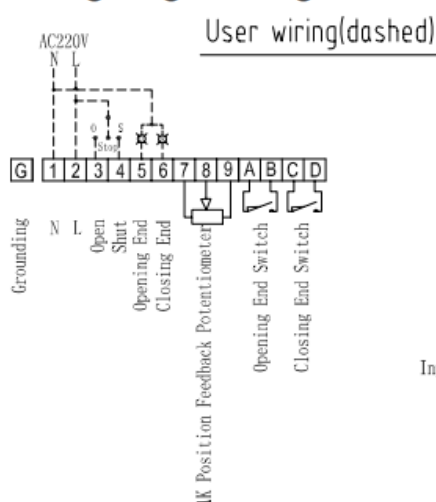
Installation Procedure



Control Board Chart

(Signal Switch Over Position)

Wiring Diagram / Signal Switch Over



SIGNAL	INPUT		OUTPUT	
	S1	S2	S3	S4
4-20mA	•	•	•	•
0-10V	•	•	•	•
2-10V	•	•	•	•

Figure 7 Signal Switch Over position