

# VF 法兰连接调节阀

VF flange connection control valve



辰轩阀门  
CHENXUANFAMEN

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## VF flange connection control valve

VF40 series Gray iron electric control valve Two links way type/ three way type Seat Valve Seat PN16 Flange connection		
	Route	$\leq VF40.100 = 20mm$ ; $\geq VF40.125 = 40mm$
	Leakage rate	0...0.05% of kvs value
	Medium temperature	2--150°C
	Valve flow characteristics	Equal percentage
	Adjustable valve ratio	>100
	Allowable working pressure	1600kpa
	Body	Gray iron
	Valve inner material	Stainless steel
VF45 series Cast iron electric control valve Two links / tee Two way type/three way type Seat valve Valve Seat PN16 Flange connection		
	Route	$\leq VF45.100 = 20mm$ ; $\geq VF45.125 = 40mm$
	Leakage rate	0...0.05% of kvs value
	Medium temperature	2--220°C
	Valve flow characteristics	Equal percentage
	Adjustable valve ratio	>100
	Allowable working pressure	1600kpa
	Body	Cast iron
	Valve inner material	Stainless steel
VF53 series Precision cast steel electric control valve Two way type links Seat valve Valve Seat PN16/PN25 Flange connection		
	Route	$\leq VF53.100 = 20mm$ ; $\geq VF53.125 = 40mm$
	Leakage rate	0...0.05% of kvs value
	Medium temperature	2--350°C
	Valve flow characteristics	Equal percentage
	Adjustable valve ratio	>100
	Allowable working pressure	2500kpa
	Body	Precision cast steel
	Valve inner material	Stainless steel
VF61 series Stainless steel electric control valve Two way type links Seat valve Valve Seat PN16/PN25 Flange connection		
	Route	$\leq VF61.100 = 20mm$ ; $\geq VF61.125 = 40mm$
	Leakage rate	0...0.05% of kvs value
	Medium temperature	2--250°C
	Valve flow characteristics	Equal percentage
	Adjustable valve ratio	>100
	Allowable working pressure	2500kpa
	Body	Stainless steel
	Valve inner material	Stainless steel
Pre-set pressure	PN16/PN25	



### Mixing valve VF40

High - closing flange -- type two - way two way type / three - way type control valve

#### Product features :

1. Precision Casting HT250
2. The valve body adopts the pressure balance type, which guarantees the high clearance ability under the low pressure, and the switching free ability under the high pressure difference switches freely
3. Maximum allowable pressure differential pressure is 1000kpa
4. The stem seal uses special special sealing process
5. The full metal joint seat guarantee service life increases the value of the life of the valve
6. The product meets GB9113 flange connection standard

### Mixed valve VF45 series

High closing force flange type two - passway regulating valve

#### Product features :

Precision casting (resin sand) nodular cast iron GGG-50

1. The valve body adopts the pressure balance type, which guarantees the high clearance ability under the low pressure, and the switching free ability under the high pressure difference The valve body adopts the pressure balance type, which guarantees the high clearance ability under the low pressure, and the high pressure difference switches freely
2. Maximum allowable pressure differential pressure is 1000kpa
3. The stem seal uses special sealing process The stem seal adopts special special seal
4. The full metal joint seat increases the value of the life of the valve
5. Full metal joint seat guarantee service life
6. The product meets GB9113 flange connection standard
7. GB9113 flange connection standard



### Mixed valve VF53 series

High closing force flange type two - passway/three way- pass regulating valve

#### Application apply :

It is suitable for continuous control in district heating system and hvac system.

It can be installed with Siemens SAX, SKD, SKB, SKC SBX series executor/actuator.

#### Product features :

1. Precision casting WCB
2. The valve body adopts the pressure balance type, which guarantees the high clearance ability under the low pressure, and the switching free ability under the high pressure difference
3. body adopts the pressure balance type, to ensure the high shutoff under low reaction ability, high pressure differential switch freely
4. Maximum allowable differential pressure is differential 1000kpa
5. The stem seal uses special sealing process/Seal of the valve rod seal for special use
6. The full metal joint seat increases the value of the life of the valve
7. The product meets GB9113 flange connection standard
8. Full metal joint seat guarantee service life
9. GB9113 flange connection standard



### Stainless steel mixed valve VF61 series

High closing force flange type two - passway regulating valve

Parameters of 304/316L stainless steel series with VF61 series connection regulator:

Technical parameters of VF61 series of stainless steel series flange connection regulator:

1. Nominal pressure: PN40
2. Itinerary: VF61.32 ~ VF61. L00:20mm  
VF61. L00 ~ VF61.200:40mm
3. Leakage: 0... 0.1% Kvs
4. Medium temperature: -25... + 350 °C
5. Flow characteristics: equal-ratio
6. Material: body: 304 stainless steel  
Stem: stainless steel  
Disc: stainless steel valve core: stainless steel
7. Stem seal: special special seal



Stainless steel electric temperature control valve

## Temperature and pressure reduction device system

### I. The principle of temperature reducing device

The temperature and pressure reduction means for reducing the temperature of high-temperature steam to the steam parameters necessary for a user, including a temperature reducing device and a pressure reducing device.

Jiixin TP series temperature reduction and decompression device is designed with advanced foreign technology. Its unique design can meet the needs of the production process site. For example, the production process site generally requires pressure and temperature remain stable when load changes to ensure that the downstream use of steam equipment normal operation and to avoid quality accidents.

The decompression device is a part of decompressing the high-pressure steam to the user's desired pressure. The pressure sensor, pressure controller, multi-function controller, and throttle device are installed on the downstream of the steam pipeline. After monitoring the decompressed steam pressure, the PI (Proportional Integral) mode regulates the opening of the valve. The downstream steam pressure can remain stable when the upstream pressure and the downstream load change.

The desuperheating device is the realization part of the steam temperature reduction, which is composed of a desuperheating body and a desuperheating water system. The desuperheating body directly accesses the steam pipe.

The desuperheated water is pumped into the desuperheating body by the high pressure of the pump. The atomized fine water droplets are sprayed through the nozzles mix with the superheated steam, gasify so that it can absorb the heat energy of the superheated steam and reduce the temperature of the superheated steam.

Imported professionally designed nozzles are made of stainless steel, with rotating blades inside. The water droplets are forced and forcefully supported. The screw movement is uniform, and the particles are fine and uniform. The atomization effect is remarkable.

According to the feedback signal of the downstream temperature sensor, the control system PI mode adjusts the waterway regulating valve and also adjusts the desuperheating water volume to bring the steam temperature closer to the set value.

### II. The main features

- ▲ The temperature-reducing probe is directly inserted into the steam pipe, which has a compact structure and exquisite workmanship.
- ▲ US imports of special nozzles, desuperheated water spray uniform solid cone, atomized particles small, the largest particles 300μ, bearing screw movement, is conducive to steam absorption, effectively avoid cavitation / flashing.
- ▲ Fully suitable for steam flow changes in the field, steam flow change ratio up to 20:1.
- ▲ The desuperheater probe is made of stainless steel material, which has strong anti-fatigue ability, impact resistance and long service life.
- ▲ The desuperheating water control valve and actuator are imported from Germany. The performance is stable and the action is sensitive.

### III. Technical requirements

- ★ When the steam temperature is lower than the saturated steam temperature, the desuperheated water will no longer evaporate. We recommend that the desuperheated steam be at a temperature above the minimum 5°C saturated steam to obtain dry steam.
- ★ The desuperheated water is condensed water or demineralized water, and the desuperheating water pressure is higher than the steam pressure by a minimum of 0.4 MPa, so that the desuperheated water achieves the best atomization effect.

The temperature-reducing and pressure-reducing device is equipped with a well-functioning thermal control cabinet, which can control the steam temperature, pressure, and temperature-reducing water pump, and can realize the following functions:

- ▲ Downstream steam temperature automatic control
- ▲ Downstream steam pressure automatic control
- ▲ Steam high temperature alarm
- ▲ Steam high pressure alarm
- ▲ Automatic power-off protection, closing the pressure reducing valve
- ▲ Cooling water pump start/stop button

#### IV. The alarm function

Multifunctional digital controller with complete alarm function

- ▲ temperature limit alarm
- ▲ Lower temperature alarm
- ▲ Pressure limit alarm
- ▲ Lower pressure alarm

#### V. Features

- ▲ Streamlined design, beautiful, standard GGD production
- ▲ Original imported Siemens controller, high control accuracy, stable and reliable
- ▲ Can add touch screen according to user needs
- ▲ According to user needs to increase communication capabilities
- ▲ Compact structure, simple operation, and full realization of "unattended" function
- ▲ Internal electrical components mainly use German Siemens, Merlin Gerin, and strive to reliable electrical operation

#### VI. Protection class

Complies with IP54 standard, the controller can work in harsh environmental conditions

1. Smooth regulation in the range of flow of 10 to 100° C.
2. Export steam pressure P2: adjustment accuracy is not less than 1.0.
3. Export steam temperature T2: adjustment accuracy is not less than 1.5
4. Noise: In the normal operation, one meter downstream of the temperature reducing and pressure reducing valve, and one meter away from the pipeline, the noise is less than 80dBA.

#### VII. The implementation of standards

1. 《Temperature and pressure reduction device technical conditions》 JB/T6323-92
2. 《Power station valve technical conditions》 JB/T3595-93
3. 《Pipe flange Technical conditions》 JB/T74-94
4. 《Pipe flange type》 JB/T74-94
5. 《Asbestos Rubber Gasket for Pipe Flange》 JB/T87-94
6. 《Convex panel type flat welded steel flange》 JB/T81-94




## Certificate of Approval

Certificate No. : 10118Q12946R0S

*Awarded to*

### Shandong Chenxuan Valve Manufacturing Co., Ltd.

Organization Code Certificate No. / Unified Social Credit Code: 91370112MA3D6R5B2E  
 Registration Add.: J 2-2813, Hengda City, No. 58 industrial North Road, Licheng District, Jinan, Shandong. Zip code: 250100  
 Office Add.: Wanda Plaza Y1-2818, Jinan high tech Zone, Shandong Zip code: 250100  
 Production Add.: Lotus Street Bazhi village in Licheng District of Shandong city of Jinan province big brother kindergarten east 200 meters Zip code: 250100

*Beijing ZhongLianTianRun Certification Center (ZLTR) certify that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard:*

#### GB/T19001-2016 / ISO9001:2015

SCOPE OF CERTIFICATION/REGISTRATION  
**Production of control valves (except for mandatory requirements)**

*This certificate is made valid when used with certification scopes and the requirements of applicable laws and regulations. These requirements include, but are not limited to, administrative permits, scopes of qualifications, and CCC requirements.*

*Subject to operation conditions in requirements conformity with Quality Management System, This Certificate is valid for a period of three years only.*

**Date from: Apr 26th, 2018 To: Apr 25th, 2021**

*The effectiveness of this Certificate shall be Validated by periodic surveillance audit of ZLTR for maintenance.*

**The time limit of the certificate is to Apr 19th, 2019, please conducting the surveillance or re-certification assessment before Apr 19th, 2019. If the assessment is overdue, the certificate is invalid.**

Information of this certificate can be found on the official website of Beijing Zhonglian Tianrun Certification center (<http://www.zltr.com.cn>)





**Beijing Zhongliantianrun Certification Center**

Room2603, 22nd Floor, 2nd Unit, Block 1, No.4 Yard, Qiyang Road, Chaoyang District, Beijing, P.R. China 100102

Information of this certificate can be found on the official website of Certification and Accreditation Administration of the People's Republic of China (<http://www.cca.gov.cn>)