



Global Supply Line - Sole agent Australia, NZ & PNG shipping worldwide large stock range.
Full stock lists at our website: www.globalsupplyline.com.au
Contact us: sales@globalsupplyline.com.au

FANGZHENG VALVE GROUP SHANGHAI CO., LTD

Add: No.885 Yuegong Road Jinshan Ind Zone Shanghai, P.R China Post code : 201506
Tel: +86-21-6727 6869 & +86-21-6727 6862

E-mail: fzvalve@fzvgroup.com

Fangzheng Valve Group reserves the right of final interpretation, and counterfeiting must be investigated.

FZV-Ref-2026.05



PROVIDE CUSTOMERS WITH SAFE AND
RELIABLE FLUID CONTROL SOLUTIONS

CHOKE VALVES

The design and manufacturing of our chokes are fully
compliance to API 6A specification.

WWW.FZVGROUP.COM



FANGZHENG VALVE GROUP SHANGHAI CO., LTD



>>> ABOUT US

Fangzheng Valve Group Shanghai Co., Ltd. is a manufacturer focus on Oil & Gas drilling and production equipments, engaging in researching & developing, manufacturing, sales and services. Founded in 2003, Fangzheng Valve Group Shanghai Co., Ltd covers 24000m² in Jinshan Ind. Zone, Shanghai, P.R.China.

Products of Fangzheng Valve Group Shanghai Co., Ltd: Oil (Gas) Wellhead and Christmas Tree, Choke and Kill manifolds, Drilling Spools, Hydraulic/Ball Screw Operated Slab Gate Valves, Ball Valves, Choke Valves, Check Valves, Blowout Preventers(BOPs), Casing Heads, Tubing Heads, Casing Spools, Tubing Spools, Flanges, etc. The working pressure of Fangzheng Valve Group Shanghai Co., Ltd products ranges from 2000 psi to 20000 psi, Specification Level range from PSL1 to PSL4, Performance Requirement Level ranges from PR1 to PR2, with functional characteristics such as low open and close torque value, small fluid impact, low noise, good sealing performance, anti-fire and anti-static designs.

Fangzheng Valve Group Shanghai Co., Ltd business philosophy: To be an Integrity-Based, Quality-Focused, Customer-First enterprise. The quality marketing awareness has continuously improved the management team of Fangzheng Valve Group Shanghai Co., Ltd. Equipped with advanced production and inspecting equipments, Fangzheng Valve Group Shanghai Co., Ltd has won an excellent reputation in the petroleum industry.

Certificates of Fangzheng Valve Group Shanghai Co., Ltd: API 6A, API 16C, API Q1, ISO/TS29001, ISO9001, ISO14001, OHSAS18001, TS Certificate (Manufacture License of Special Equipment), and PR2 Certificate for 3-10M, 4-15M and 5-10M gate valves, etc.

Over the years, with strong company culture, high effective management system, Fangzheng Valve Group Shanghai Co., Ltd continuously explores its potential for the complex and changeable market environment. Domestically, Fangzheng Valve Group Shanghai Co., Ltd has been titled with “High and New Technology Enterprise”, and “Patent Pilot Enterprise”. Fangzheng Valve Group Shanghai Co., Ltd also possesses 11 national patents for combined-gate-type high temperature gate valve, high pressure and big size globe valve, high temperature metal sealing expanding gate valve, ball screw operated gate valve, etc. Fangzheng Valve Group Shanghai Co., Ltd has been an innovative and independent brand in the petroleum industry. Fangzheng Valve Group Shanghai Co., Ltd products have been sold to many countries and regions, such as North America, Europe, Middle-East and Southeast Asia, and the annual exports ranks the forefront in the petroleum industry in Shanghai. With its best products and service, Fangzheng Valve Group Shanghai Co., Ltd aims to be first class petroleum brand domestically and globally.

INDEX

Application and Service Specifications of Series F Chokes	1
Adjustable fluid flow configuration for Series F chokes	2
FZ Classic Adjustable Needle Type Choke Features and Benefits	3
FZ Classic Adjustable Needle Type Choke Assembly	4
FG Classic Positive Choke Features and Benefits	5
FG Classic Positive Choke Assembly	5
FH Classic External Sleeve and Cage Control Choke Features and Benefits	6
FH Classic External Sleeve and Cage Control Choke Assembly	7



Global Supply Line - Sole agent Australia, NZ & PNG shipping worldwide large stock range.
Full stock lists at our website: www.globalsupplyline.com.au
Contact us: sales@globalsupplyline.com.au

APPLICATION AND SERVICE SPECIFICATIONS OF SERIES F CHOKES

F Series chokes are suitable for a wide range of choke applications, including wellhead control, production manifolds, choke and kill manifolds, Wellhead Testing and Cleaning Operations.

The F Series chokes are available in a variety of structural designs, which can reliably handle operations involving standard working conditions, erosive media and corrosive media, with a maximum pressure rating of 15,000 psi.

Three types of classic choke valves are available:

■ FZ Classic

Adjustable Needle Type Choke

—The FZ Classic Adjustable Needle Type Choke is equipped with a needle-type stem structure, which enables variable flow rates and can be locked in position when a fixed flow rate is required.

■ FH Classic

External Sleeve and Cage Control Choke

—The FH Classic External Sleeve and Cage Control Choke is equipped with cage-type trim components, the valve supports variable flow rates and can be locked for fixed flow

The F-Series Choke Valves deliver excellent performance, low maintenance requirements and an extended service life across all operating conditions and application scenarios.

Compatible Sizes & Pressures Range

Model Numbers	Nominal Size	Available Needle/Max. Orifice Sizes	Pressure Range(psi)
FZ Classic	2-1/16"	1"	3000-10000
	2-9/16"	1.5"	
	3-1/8"	2"	
	4-1/16"	3"	
	5-1/8"	4"	
FG Classic	2-1/16"	1"	3000-10000
	2-9/16"	1.5"	
	3-1/8"	2"	
	4-1/16"	3"	
	5-1/8"	4"	
FH Classic	2-1/16"	1"	3000-10000
	2-9/16"	1.5"	
	3-1/8"	2"	
	4-1/16"	3"	
	5-1/8"	4"	

Material Compatibility and Recommendations

API 6A Material Class	Body/Bonnet	Choke Trim (Stem, Seat, Bean)
AA General Service	Carbon or Low-alloy steel or Stainless Steel or CRA	Carbon or Low-alloy steel or Stainless Steel or CRA
		Stainless Steel or CRA
BB General Service	Carbon or Low-alloy steel or Stainless Steel or CRA	Stainless Steel or CRA
		Stainless Steel or CRA
CC General Service	Stainless Steel or CRA	Stainless Steel or CRA
		Stainless Steel or CRA ^a
DD Sour Service ^a	Carbon or Low-alloy steel or CRA ^a	Carbon or Low-alloy steel or CRA ^a
		Stainless Steel or CRA ^a
EE Sour Service ^a	Carbon or Low-alloy steel or CRA ^a	Stainless Steel or CRA ^a
		Stainless Steel or CRA ^a
FF Sour Service ^a	Stainless Steel or CRA ^a	Stainless Steel or CRA ^a
		Stainless Steel or CRA ^a
HH High H ₂ S, Sour Service ^a	CRA ^{a,b}	CRA ^{a,b}

FOOTNOTES

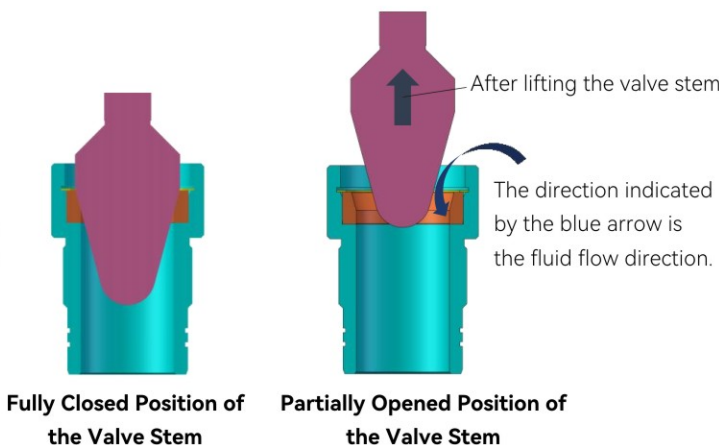
a. In accordance with NACE MR0175/ISO 15156 .
b. CRA required on retained fluid-wetted surface only; CRA cladding of low-alloy or stainless steel is permitted.

ADJUSTABLE FLUID FLOW CONFIGURATION FOR SERIES F CHOKES

Adjustable Trim

— Needle&Stem Integral one Piece

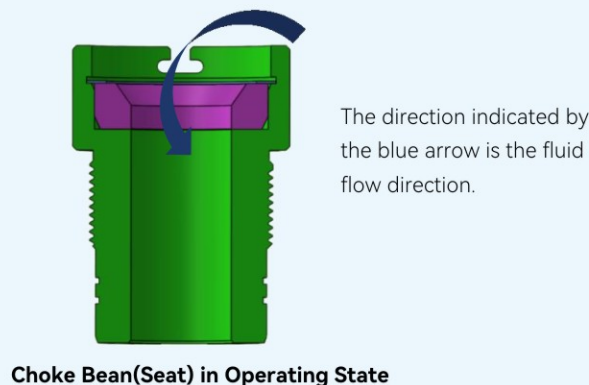
The FZ Classic Adjustable Needle Type Choke provides a needle stem that can throttle the flow ports directly. This trim is typically used for pressure and flow rate control applications such as Oil & Gas production.



Positive Trim

— Choke Bean

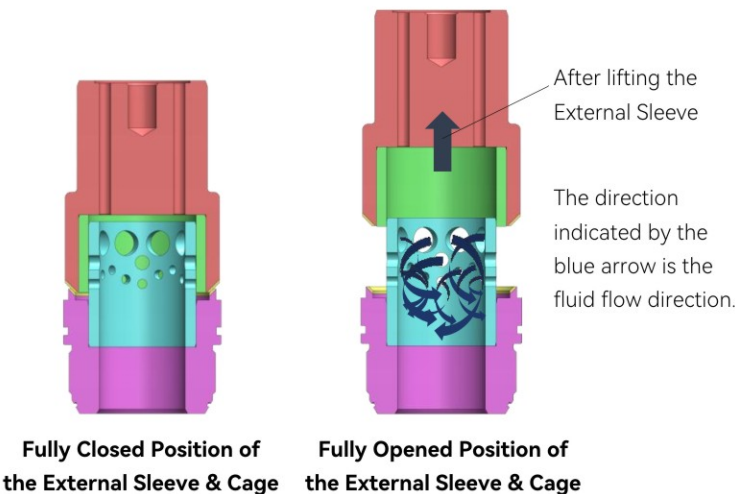
The FZ Classic Positive Choke has a choke bean made of hard alloy. The trim with high wear resistance, erosion resistance and reliability can be used in a variety of working conditions.



Adjustable Trim

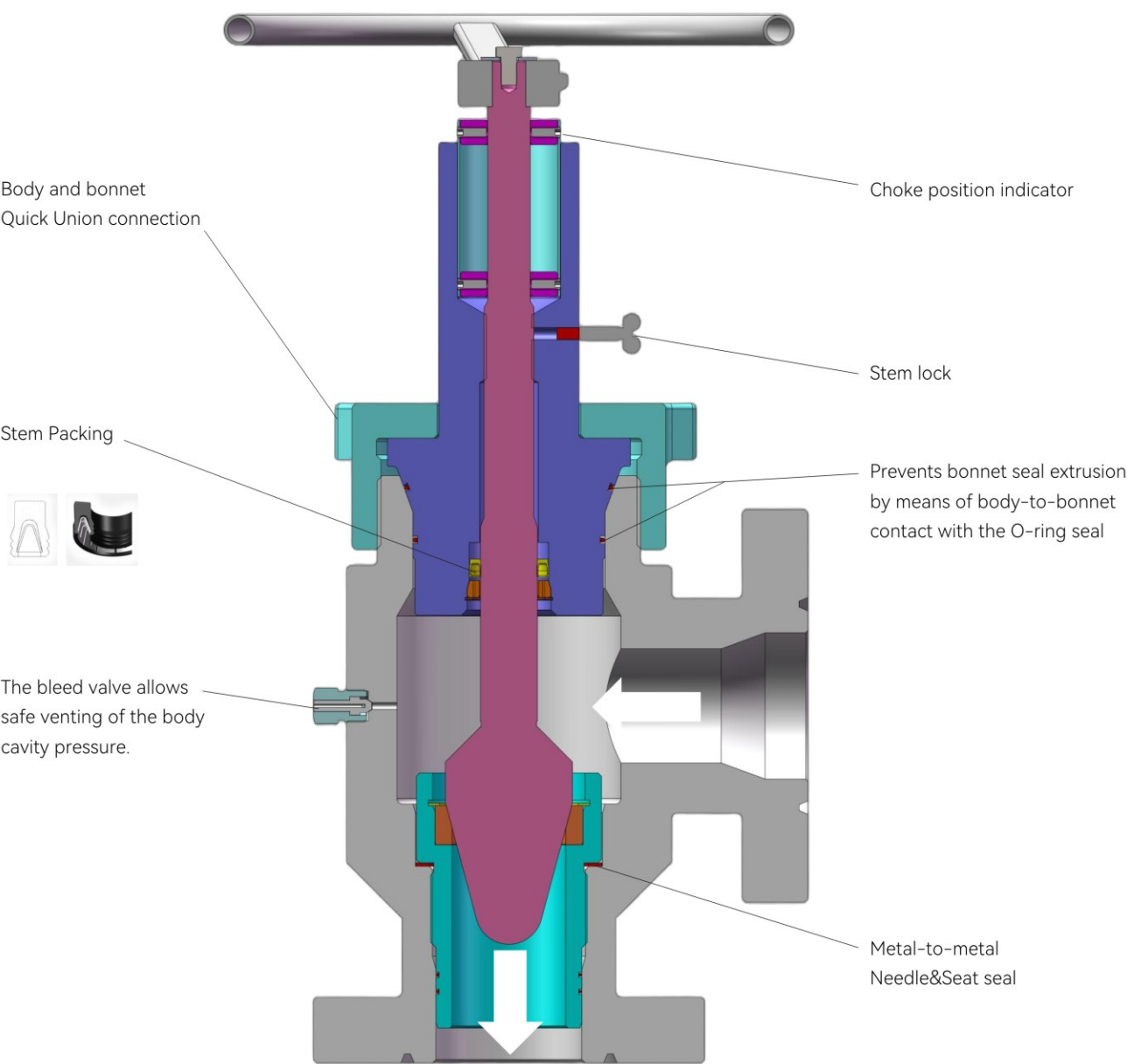
— External Sleeve & Cage

The FH Classic External Sleeve and Cage Control Choke uses a sleeve on the outside diameter of the cage to throttle the flow ports.



NOTE: Designed according to customer requirements.

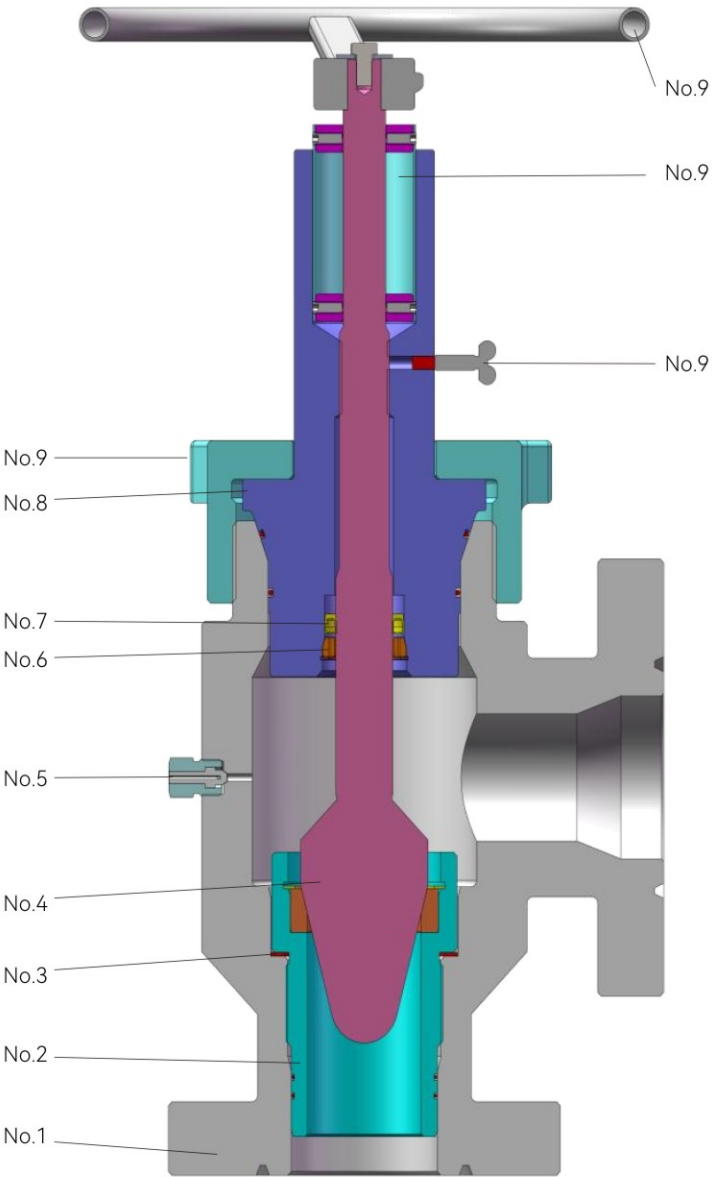
FZ CLASSIC ADJUSTABLE NEEDLE TYPE CHOKE FEATURES AND BENEFITS



ADDITIONAL FEATURES

- FZ Classic is designed and manufactured in accordance with API 6A, including performance verification testing for PR2 level chokes
- Forged body
- Easy operation and maintenance

FZ CLASSIC ADJUSTABLE NEEDLE TYPE CHOKE ASSEMBLY



COMPONENTS

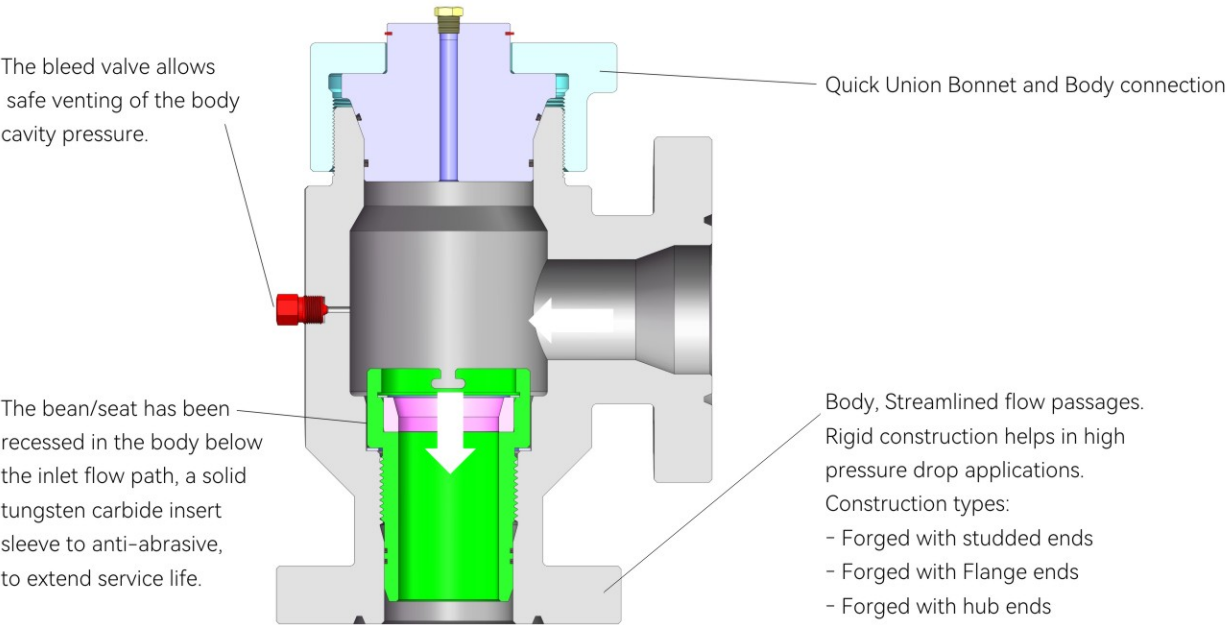
Item No.	Description	Qty.
No.1	Body	1
No.2	Seat+Seat Bushing	1
No.3	Seal Ring	1
No.4	Stem	1
No.5	Bleed Fitting	1
No.6	Junk Ring	1
No.7	Packing Assembly	1
No.8	Bonnet	1
No.9	Hammer Union Nut	1
No.10	Thumb Screw	1
No.11	Position Indicator	1
No.12	Handwheel	1

NOTE: Design according to customer requirements.

Valve Characteristics

- Simple construction, Easily for Operation and maintenance.
- Low fluid impacting and noise.
- Leakage class per ANSI-FCI 70.2 Class IV .
- Plug and Stem are integral one piece.

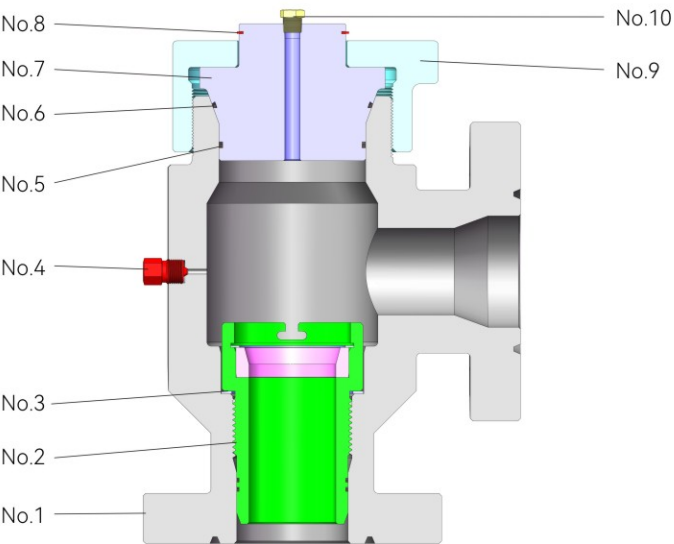
FG CLASSIC POSITIVE CHOKE FEATURES AND BENEFITS



ADDITIONALFEATURES

- FG Classic is designed and manufactured in accordance with API 6A, including performance verification testing for PR2 level chokes
- Forged body
- Easy operation and maintenance

FZ CLASSIC ADJUSTABLE NEEDLE TYPE CHOKE ASSEMBLY



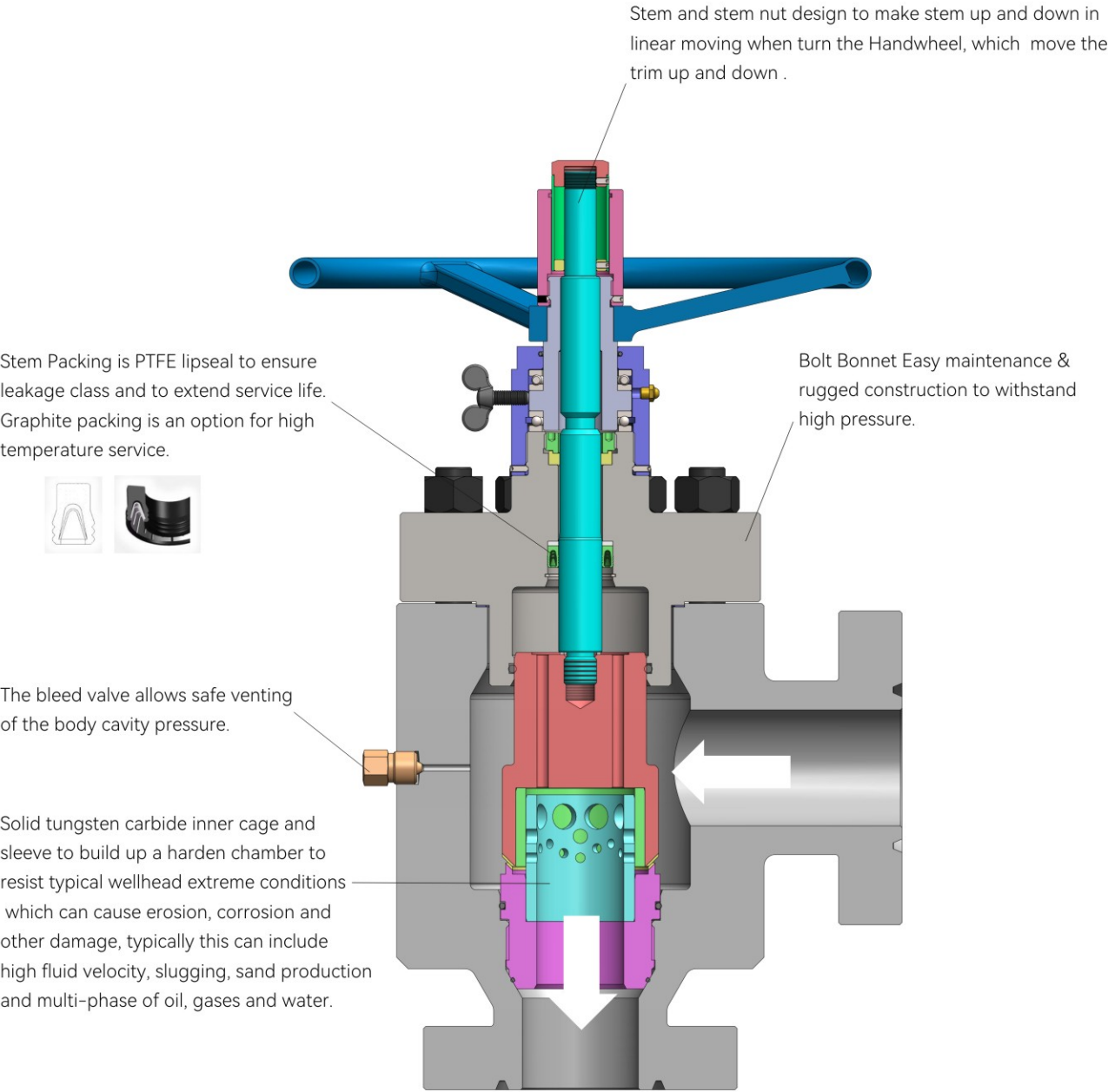
COMPONENTS

Item No.	Description	Qty.
No.1	Body	1
No.2	Seat	1
No.3	Seal Ring	1
No.4	Bleed Fitting	1
No.5	O-Ring	1
No.6	O-Ring	1
No.7	Bonnet	1
No.8	Junk Ring	1
No.9	Hammer Union Nut	1
No.10	Vent valve	1

Valve characteristics

- Offers the user a more economical design that is easy to maintain.
 - Field interchangeability with many other common design components.
- NOTE: Design according to customer requirements.

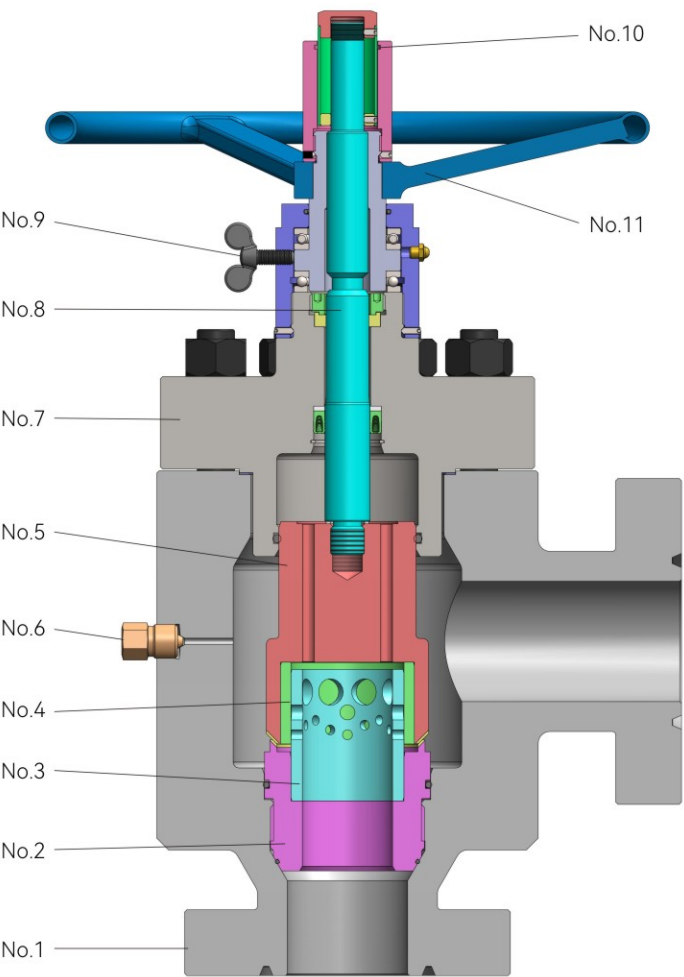
FH CLASSIC EXTERNAL SLEEVE AND CAGE CONTROL CHOKE FEATURES AND BENEFITS



ADDITIONALFEATURES

- FH Classic is designed and manufactured in accordance with API 6A, including performance verification testing for PR2 level chokes
- Forged body
- Easy operation and maintenance

FH CLASSIC EXTERNAL SLEEVE AND CAGECONTROL CHOKE ASSEMBLY



COMPONENTS

Item No.	Description	Qty.
No.1	Body	1
No.2	Seat	1
No.3	Cage	1
No.4	External Sleeve	1
No.5	External Sleeve Seat	1
No.6	Bleed Fitting	1
No.7	Bonnet	1
No.8	Stem	1
No.9	Thumb Screw	1
No.10	Position Indicator	1
No.11	Handwheel	1

NOTE: Design according to customer requirements.

Valve characteristics

- Offer a complete solution from startup to late life conditions.
- Flow characteristics, including 'linear' or 'equal percentage'.
- Fully guided plug and pressure balanced design reduces side loading and vibration.
- Ultra-low CV, low noise.
- Available in manual and actuated configurations, including Motor, Hydraulic, Pneumatic actuators.
- Suitable for a wide variety of applications, including production, injection, gas lift, flowback, storage, etc.
- Commonly installed on Christmas trees, manifolds, line heaters, offshore platforms, FPSOs, and other equipment, providing precise flow control under severe service conditions.