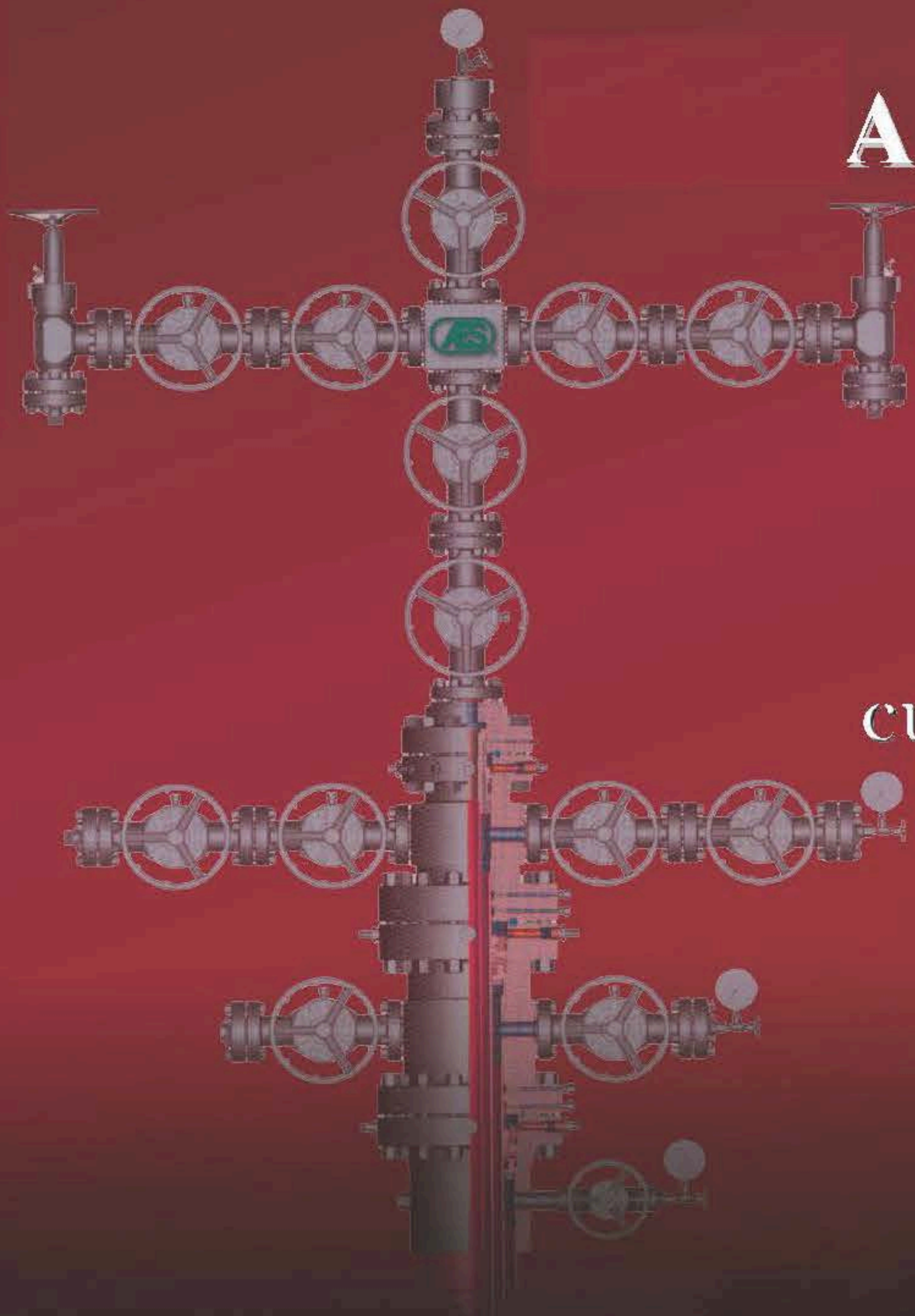




**API-6A  
Products  
Brochure**

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*When the "pressure" is really on!*

*Houston, Texas*

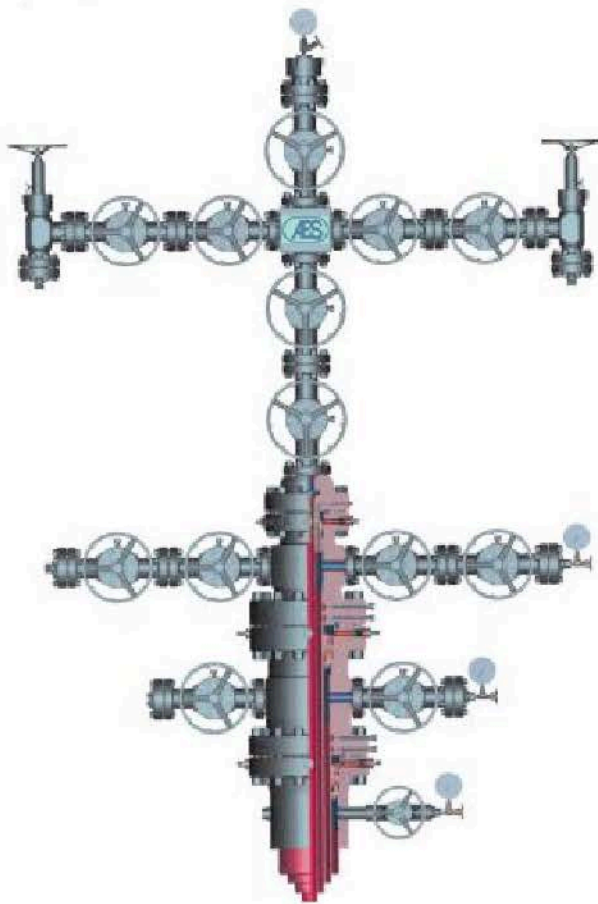


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## Wellhead Equipment & Christmas Tree



**Fix wellhead, connects wellhead casing string, seal to control the angle of the casing, suspends tubing, controls wellhead pressure and adjusts flow rate, induces oil into outlet pipeline, shuts off oil well when necessary and applies to acid fracturing, water injection and testing services.**

- u Consist of casing head, tubing head, and Christmas tree
- u Applies to all kinds of casing, tubing programs and connection types
- u Features reliable running, simple and convenient operating and repairing
- u Can be equipped with (pneumatic) hydraulic safety valve
- u Working pressure:  
2,000 PSI - 20,000PSI
- u Working medium:  
oil, natural gas, mud, H<sub>2</sub>S, CO<sub>2</sub>
- u Working temperature:  
46° C - 121°C (Class LU)
- u Material class:  
AA, BB CC, DD, EE, FF,HH
- u Specification level: PSL1-4
- u Performance level: PR1-2

## *Casing Head Assembly*

### **Casing Head**

Casing head and casing spool use standard design, and can apply to all kinds slip and mandrel type casing hanger

### **Straight-bore Design**

45° shoulder design with high load capacity

### **Side Outlet Connection Form**

Pipeline thread side outlet Threaded flange side outlet, design with VR plug

### **Secondary Seal**

Design with multi-structure secondary seals at bottom installation can be performed on the spot per different structure types, injection or non-injection can achieve seal

### **Interchangeability of Casing Hanger**

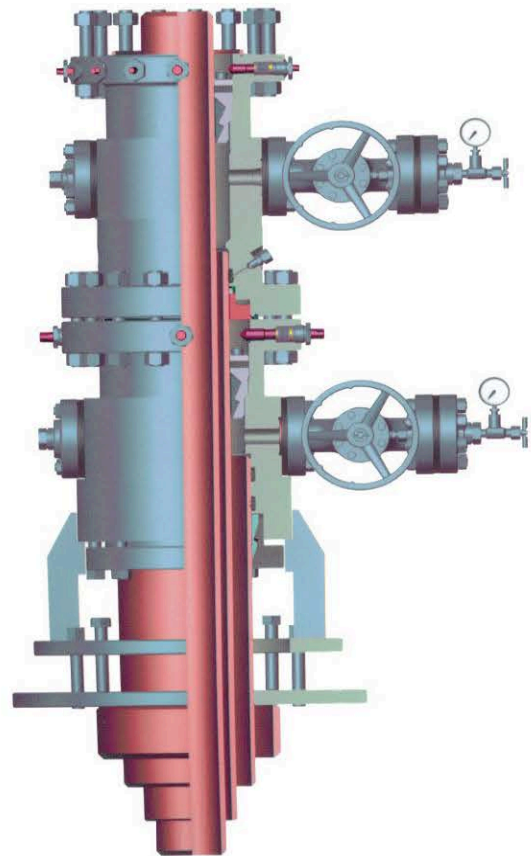
Casing hangers are designed with standard profile Interchangeability between slip casing hanger and mandrel type casing hanger

### **Connection Forms between Casing Head Surface Casing**

Threaded bottom types

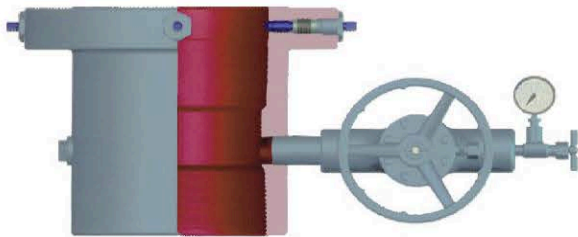
Welded bottom types

Slip bottom types



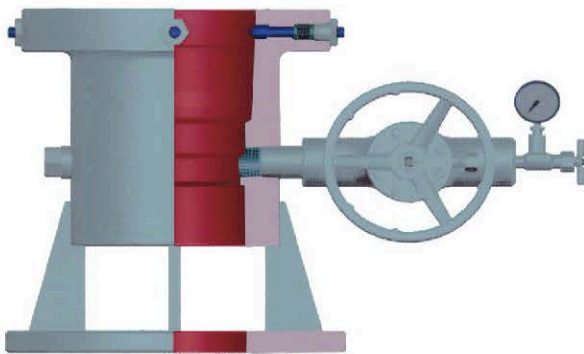


## *Connection Types between Casing Head and Surface Casings*



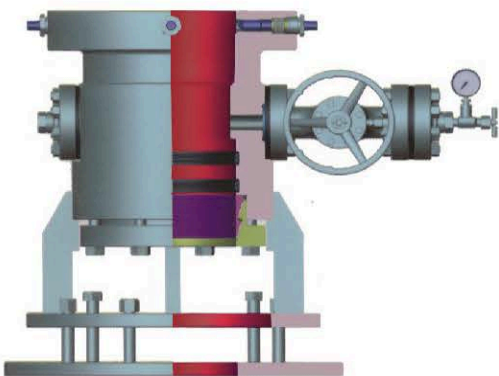
### **Threaded bottom connection**

All types of casing thread, connect surface casing pup joint



### **Welded bottom connection**

Weld casing head and surface casing on the spot, applies to most specifications of casings



### **Slip bottom connection**

Tighten the locking bolt to slip clamp surface casing, designed with your choice of casing seal ring. The connection is firm and the seal is reliable

## *Casing Head Body*



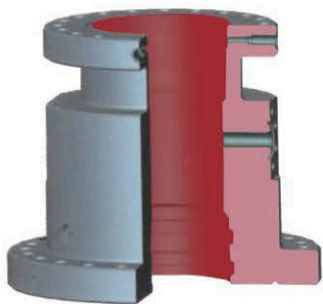
2 ~ 20 inch Casing Size



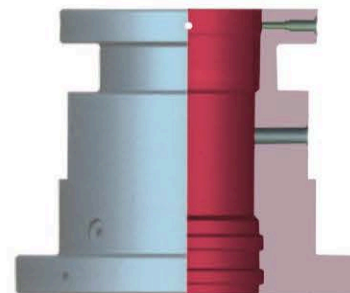
To All Current API Dimensions

Custom sizes available

## *Casing Spool Body*



2 ~ 21-1/4 inch Spool Size



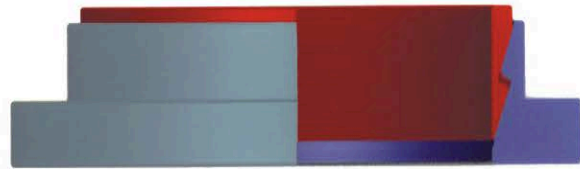
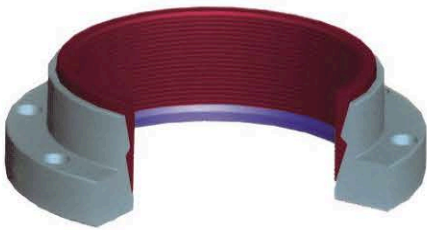
To All Current API Dimensions

Custom sizes available

## *Casing Hanger*

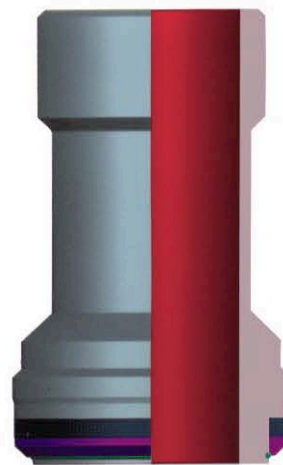
### **WD Type Hanger**

- Consist of slip, slip bowl, etc
- Used for connecting casing head and surface casing through slip
- tighten casing with help of external force
- Applicable to standard casing heads of bottom connection



### **Mandrel Type casing Hanger**

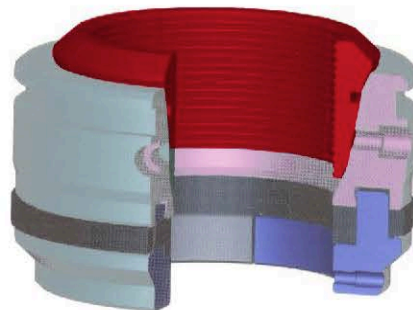
- Consist of hanger body, rubber seal ring, and retainer, etc
- Applicable to standard casing heads and casing spool, which is
- easy operation and reliable seal



## *Casing Hanger*

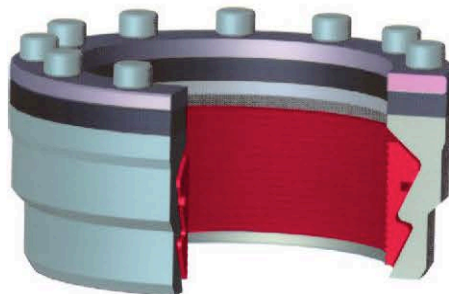
### **W Type Hanger**

Consists of slip, slip bowl, support base and sealing member  
Equipment is automatically energized with casing weight  
Mating surface of slip and slip body designed with double limited position and one taper to lock casing easily and avoid destroying casing  
Comparable to standard casing heads and casing spools



### **WE Type Hanger**

Consists of slip, slip bowl, support base and sealing member  
Equipment is automatically energized with casing weight  
Mating surface of slip and slip body designed with double limited position and one taper to lock casing easily and avoid destroying casing  
Comparable to standard casing heads and casing spools





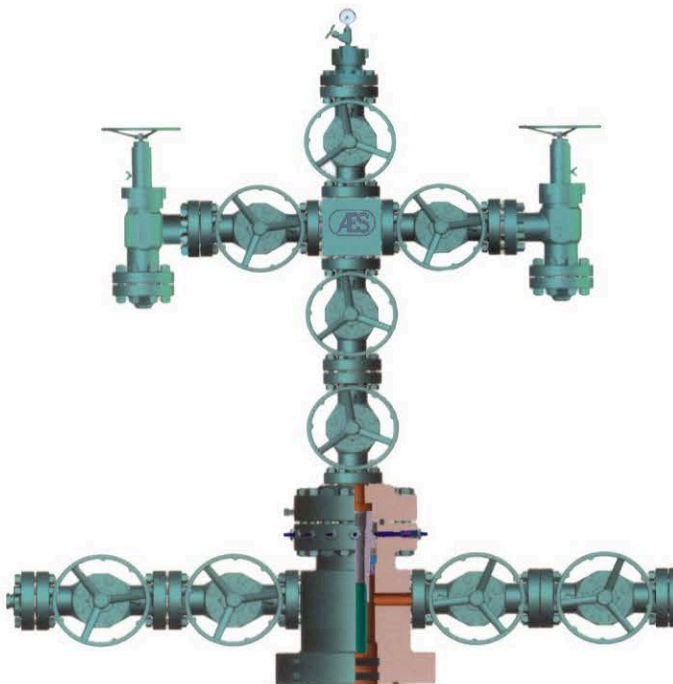


## *Wellhead & Christmas Tree*

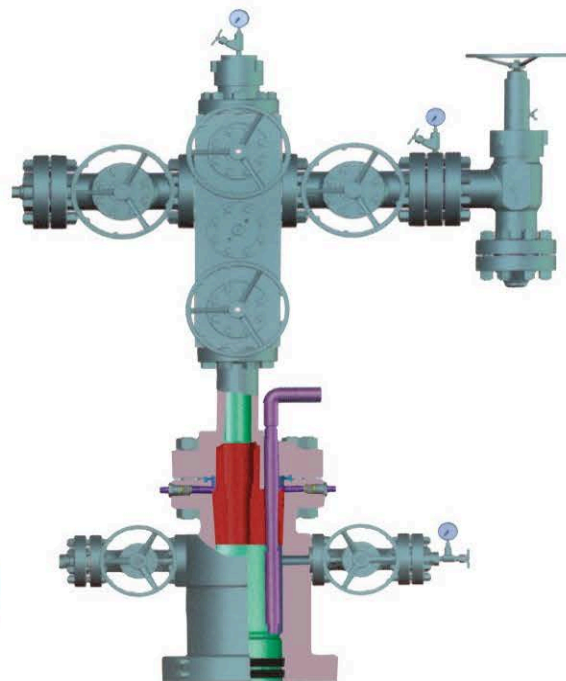
**Conventional Christmas Tree**

**Block Christmas Tree**

**Assembly of Tubing Head  
& Christmas Tree**



**Con.  
Tubing Head,  
Conventional Christmas Tree**

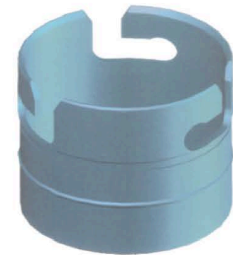


**BK.  
Tubing Head,  
Block Christmas Tree**

## CASING HEAD TOOL

- **W Type Hanger**

Wear bushing is used to prevent cavity sealing surface from damage during drilling, installed and removed by running & retrieving tool

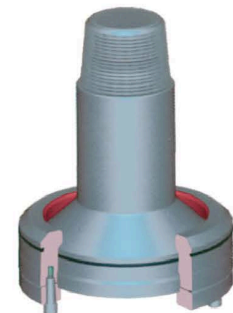


- **Running / Retrieving Tool**

Used for running / retrieving wear bushing

- **Test Plug**

- The test plug is set on the shoulder of casing head (or casing spool) to test seal performance of BOP, drilling spool and casing head (or casing spool) through drill pipe
- Meet, the requirements of casing head (or casing spool) of different specification, through replacing the external test Plug



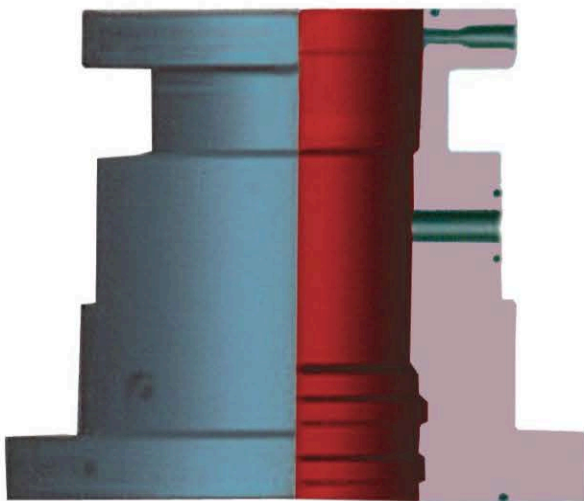
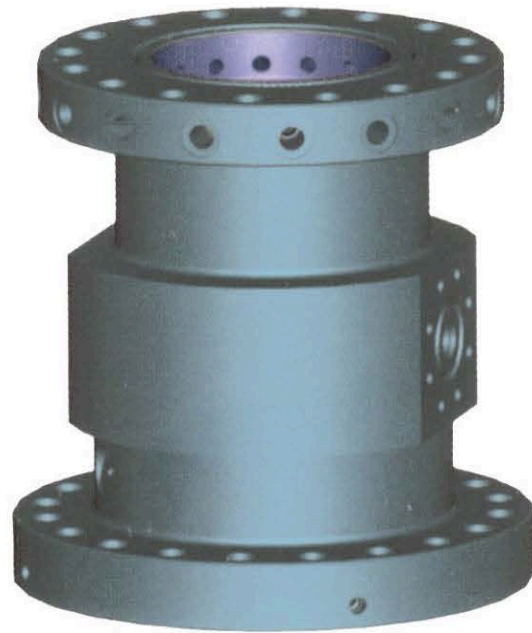
- **Multifunction Test Plug**

Can be used as running/retrieving tool for wear bushing as well as a test plug



## *Tubing Head Body Types*

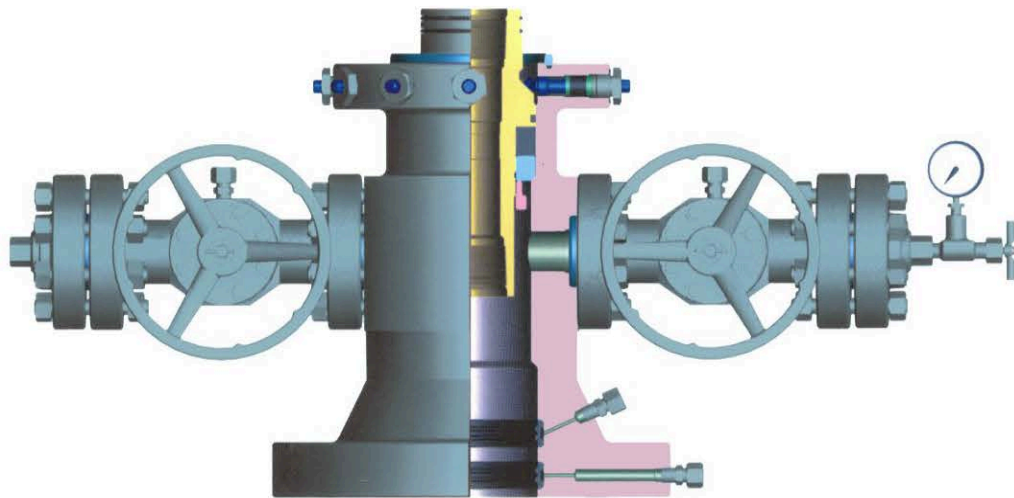
**Type - A**



**Type - B**

All API current sizes available. Custom sizes upon request.

## *Tubing Head Body*



### **Tubing Head**

Tubing head designed with versatile straight-bore, can be installed in tubing hanger with different specifications

### **Straight-bore Design**

45° shoulder designed with high load capacity

### **Straight-bore Design**

Threaded flange side outlet

### **Lock Down Screw Assembly**

Standardized design lock down screw assembly

Lock wear bushing, tighten tubing hanger

### **Secondary Seal**

Designed with secondary seal mechanism at bottom, the casing head can be cut on site to fit the height of the sealing device to be installed to fit the height of sealing device through cutting casing on the spot

### **Lock Down Screw Assembly**

Rubber seal or metal-to-metal seal

Tubing hanger and top flange can be fed through with a cable, or penetrated with power mandrel penetrator

Tubing hanger and top flange may connect multiple joints to control pipeline



## *Casing Secondary Seal Ring*

### Various types of secondary seals

BT and P type are injection secondary seals, FS and Y type are non-injection secondary seals

Y type is a one way seal, others are two way seals

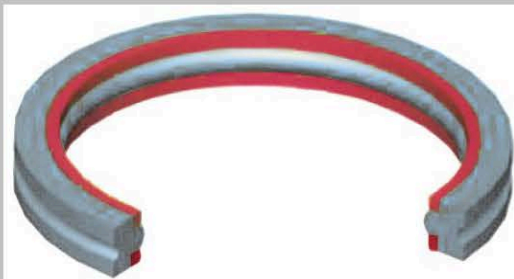
Max Pressure for FS & Y type: 20,000PSI

Seal rings good for extended use in oil, natural gas, and mud service.

**BT type secondary seal**



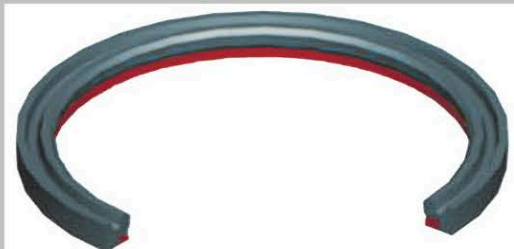
**FS type secondary seal**



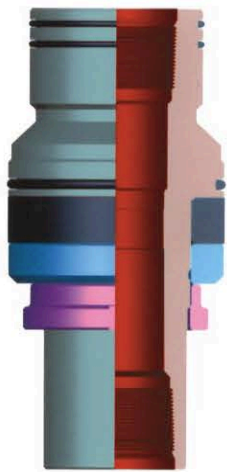
**P type secondary seal**



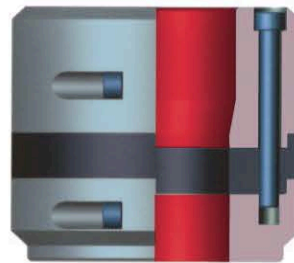
**Y type secondary seal**



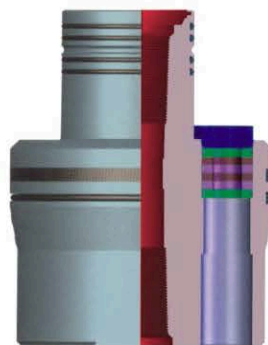
## *Tubing Hanger*



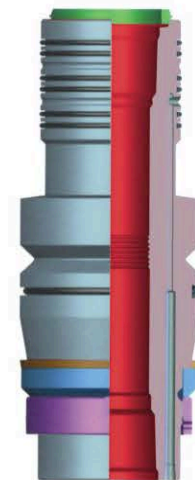
**Rubber Seal  
Tubing Hanger**



**Wrap Round Tubing Hanger**



**Cable Seal Tubing Hanger**



**Metal-to-metal  
Seal Tubing Hanger**

Taper type and straight type

Metal-to-metal seal and non-metal seal

With non-capitalized pressure valve thread

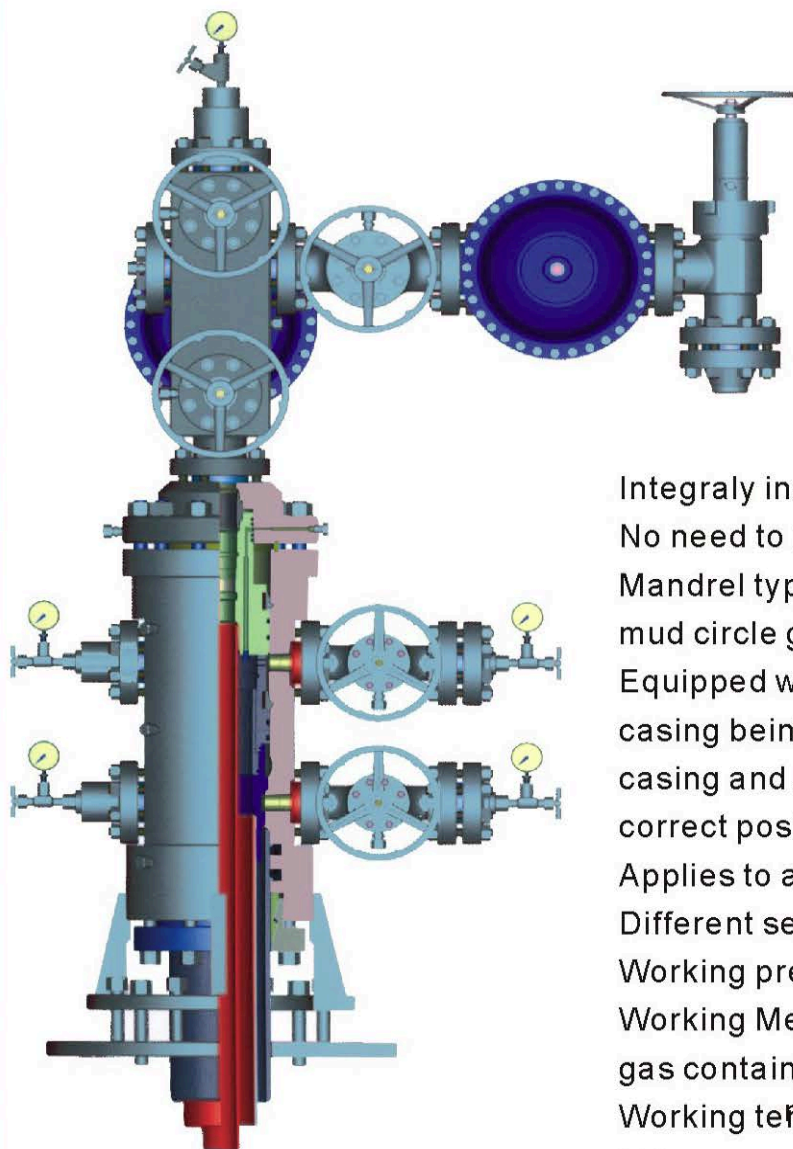
Locating mechanism

Various cable penetrator channels, controls pipeline channel subsurface safety valve, chemical reagent injection channel and capillary channel

The upper and lower threads to API tubing specification, unless client request other



## *Multibowl Wellhead*



Integrally installed to save installation time  
No need to replace BOP during drilling  
Mandrel type casing hanger designed with mud circle groove

Equipped with emergency slip to avoid casing being locked during lowering of casing and mandrel casing hanger if not in correct position

Applies to all kinds of casing and tubing  
Different seal types available

Working pressure: 2000PSI ~20000PSI

Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2

## *Wellhead Tools*

Back pressure valves are used to seal pressure in well in order to repair or replace master valve of Christmas tree

Back pressure valve R/R tool is used for installing or retrieving back pressure valve while under pressure

VR plug is used to close casing pressure in order to repair or replace inside valve tubing head (or casing head)

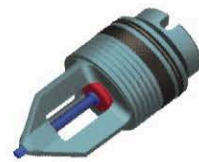
VR plug R/R is used for installing or retrieving VR plug while under pressure

High pressure injection gun is primarily used for the injection of secondary seal and valve, which is also used for pressure testing

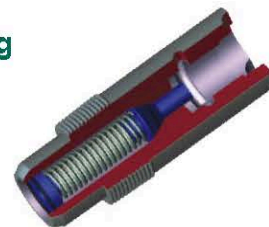


**Back pressure valve R/R tool**

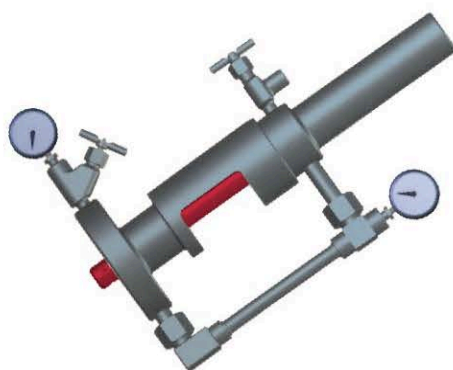
**Back pressure valve**



**VR plug**



**High pressure injection gun**



**VR plug R/R tool**







## *Dual Completion Wellhead*

Pneumatic or hydraulic safety valve available

Design for assembling and disassembling dual tubing hanger quickly

One well bore can exploit two different strata at the same time, and can operate separately

Compact construction, convenient operation, reliable sealing

Working pressure: 2000PSI ~20000PSI

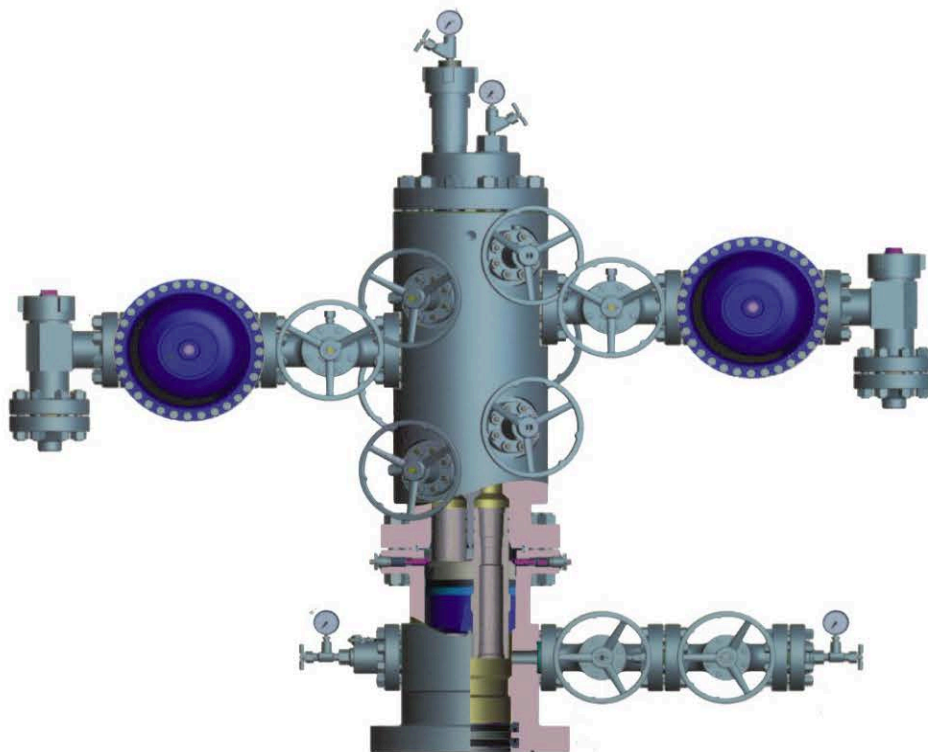
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121°C (Class LU)

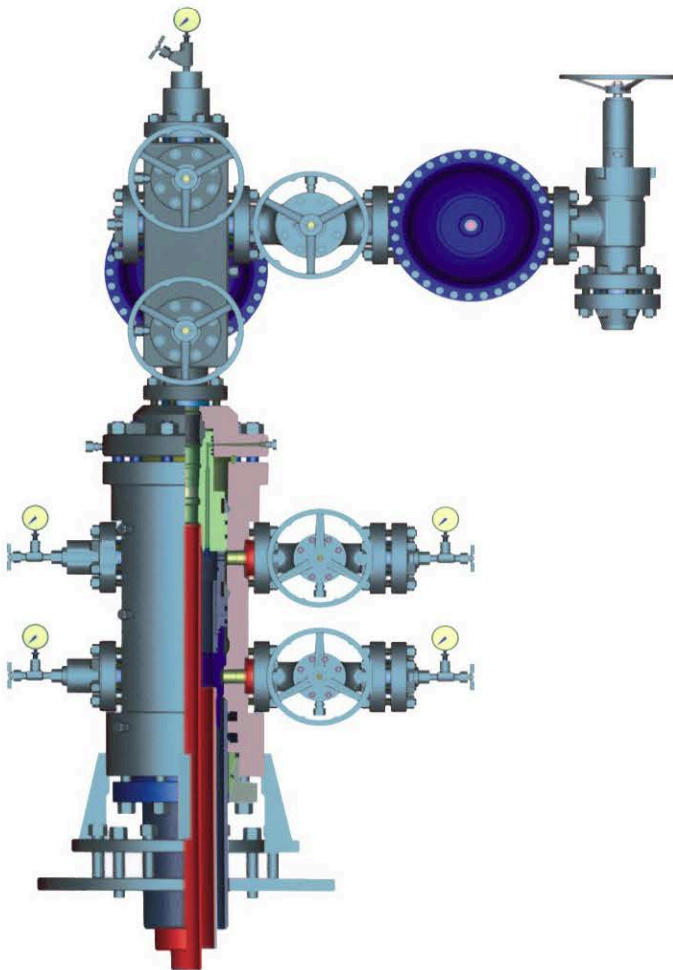
Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



## *Unihead*



Design casing head and tubing head integral to meet operation space

No need to replace BOP during drilling

Mandrel casing hanger designed with mud circle groove

Equipped with emergency slip to avoid casing being locked during lowering of casing and mandrel

The structure of hanging and sealing can avoid hanging casing and damaging sealing element during cement, and can repair and replace sealing element conveniently

Elastic lock hanger automatically to provide reliable seal

Applies to all kinds of casing and tubing programs

Working pressure:

2000PSI ~20000PSI

Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature:

-46°~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



## ***High Pressure Oil & Gas Wellhead and Automatic Safety Control System***

Surface safety valve and subsurface safety valve to achieve automatic safety control available

Use various seal types, metal seal assembly keeps stability and reliability under high pressure, corrosion resistant and extreme condition

Multifunction tubing hanger: Additional the function of hanging and sealing tubing, also interfaces to ESP cable penetrate, data cable penetrate chemical reagent and control pipeline of SCSV that meet the requirements of a variety operation conditions

Automatic remote control

Fireproof automatic safety control

Pressure safety automatic control

Working pressure: 2000PSI ~20000PSI

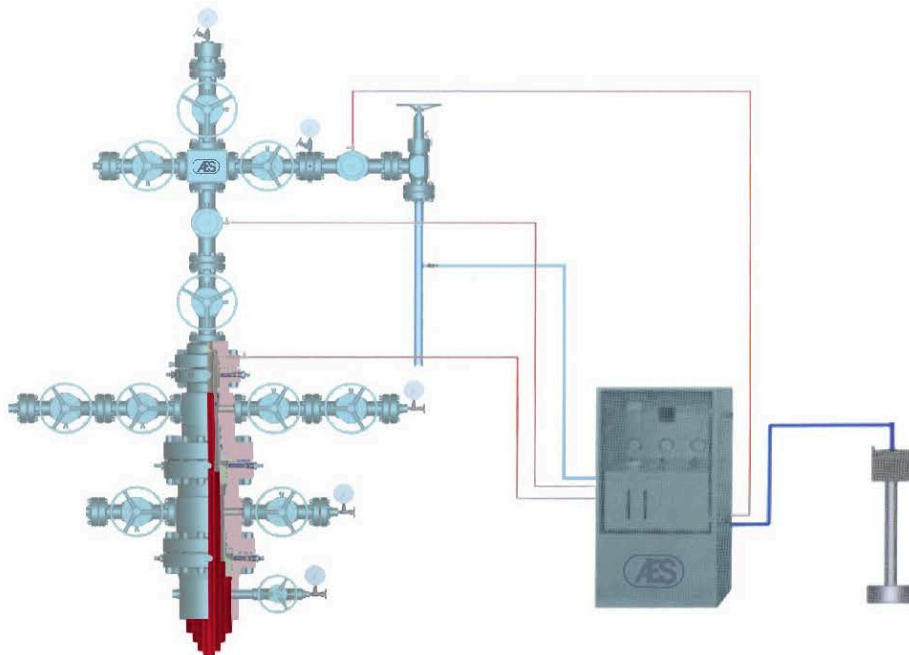
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



## *PCP Wellhead*

PCP wellhead to perform  
production practice run  
Preventer valve, top flange and  
cross to an integral to decrease  
height and size of installation  
and increase reliability of seal

Working pressure:

2000PSI ~20000PSI

Working Medium: oil, natural  
gas, mud and gas containing  
H<sub>2</sub>S, CO<sub>2</sub>

Working temperature:

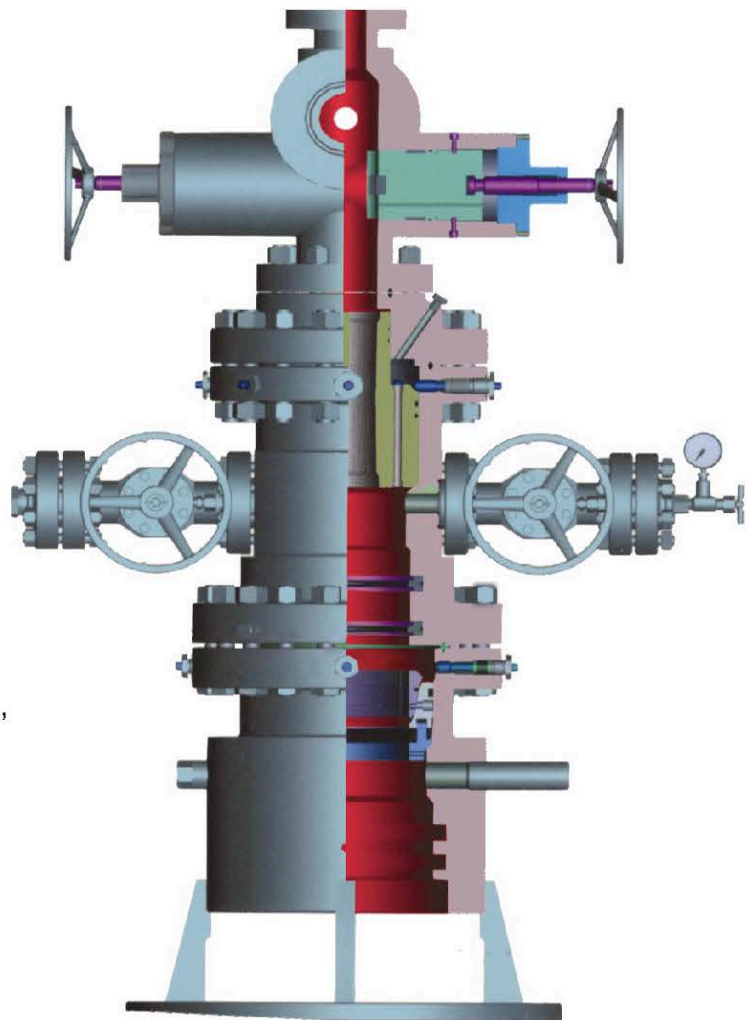
-46°~ 121°C (Class LU)

Material Class: AA, BB, CC, DD,  
EE, FF, HH

Specification level: PSL 1~4

Performance Requirement:

PR1~2





## *Full Bore Series Gate Valves*

Full bore design eliminates pressure drop and vortex, and eliminates washing water damage

Special seal lowers torque

Metal-to-metal seal is used between bonnet and body, gate and seat ring

Metal-to-metal seal between gate and seat, surface is weld overlay with hard alloy corrosion resistance and washing resistance

Retainer plate and fix seat ring insures good stability

The stem is designed with back seal, can replace stem sealing under pressure

One side of bonnet is designed with sealant injection in order supply sealant and improve seal and lubrication performance of gate and seat

Can provide different pneumatic (hydraulic) actuators upon user's request

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 1.13/16" ~9" (46mm ~ 230mm)

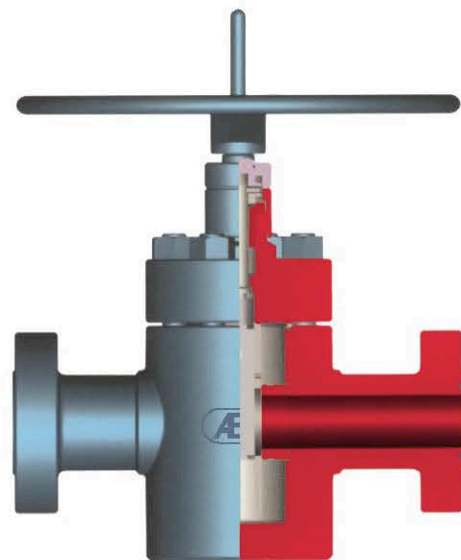
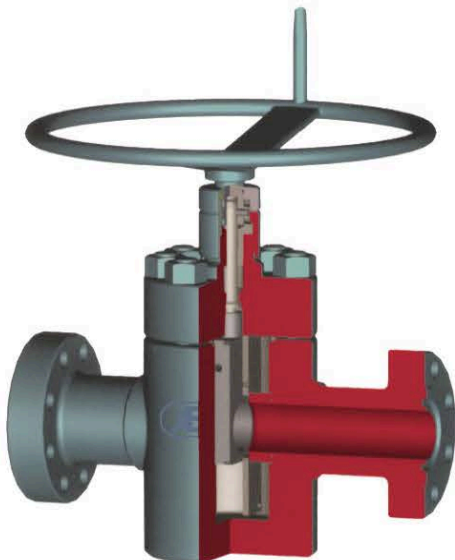
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121 °C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



## *Available Gate Valve Types*

Full bore design eliminates pressure drop and vortex, and eliminates washing water damage  
 Metal-to-metal seal is used between bonnet and body, gate and seat, body and seat

The surface of gate and seat is weld overlay with hard alloy, which is corrosion resistance and washing water resistance

The bonnet and stem are designed with a back seal, can replace stem seal ring under pressure

One side of bonnet is designed with sealant injection in order to supply sealant and improve seal and lubrication performance of gate and seat

Can be used with various pneumatic (hydraulic) actuators upon user's requirement

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 1.13/16" ~9" (46mm ~ 230mm)

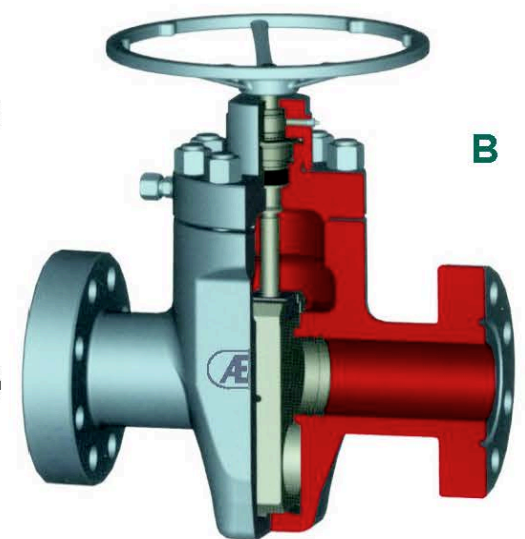
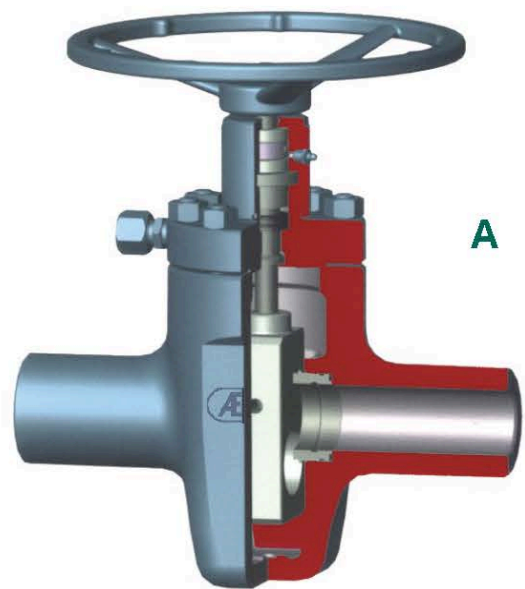
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2





## *Available Gate Valve Types*

Full bore design eliminates pressure drop and vortex, and eliminates washing water damage

Metal-to-metal seal is used between bonnet and body, gate and seat, seat and body

The surface of gate and seat welding overlay with hard alloy, corrosion resistance and washing resistance

The balanced stem reduces load of stem thread and bearing to decrease operating torque

The bonnet and stem, designed with back seal, allows replacing stem sealing under pressure

One side of bonnet is designed with sealant injection valve

Rising stem structure indicates open and close of valve

Complete with different pneumatic (hydraulic) actuators upon user's requirements

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 1.13/16" ~9" (46mm ~ 230mm)

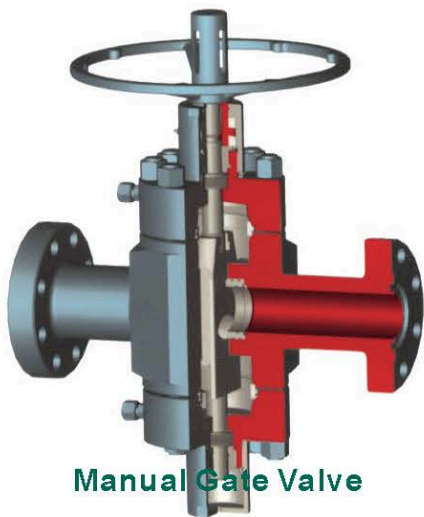
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121°C (Class LU)

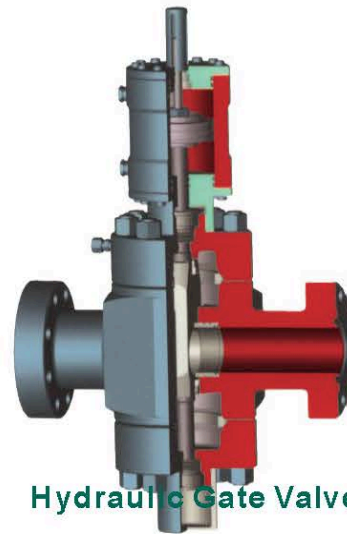
Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



**Manual Gate Valve**



**Hydraulic Gate Valve**

## *Expanding Gate Valve Types*

Full bore design eliminates pressure drop and vortex, and eliminates washing water damage

Gate uses expanding type structure

Low torque operation during open and close

Metal seal is used between bonnet and body

Soft seal or metal seal is used between gate and seat

Injection valve to improve seal performance

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 1.13/16" ~9" (46mm ~ 230mm)

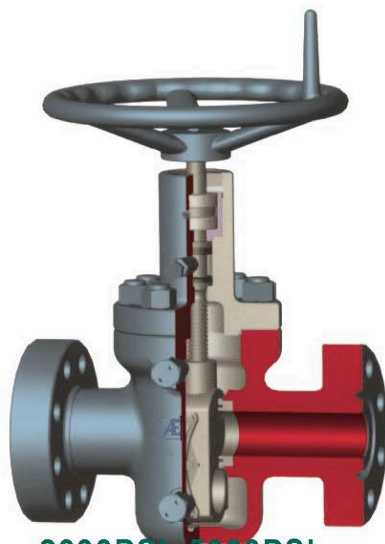
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121°C (Class LU)

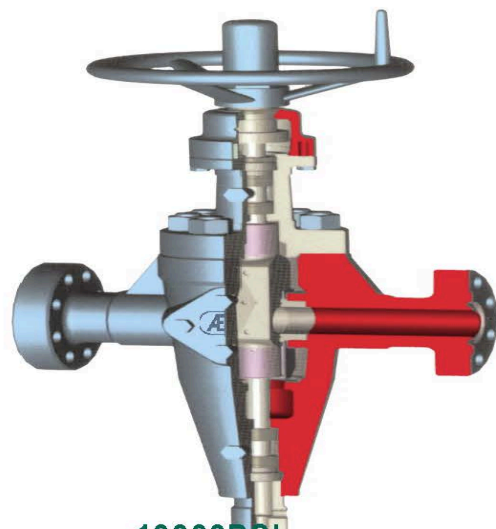
Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



**2000PSI~5000PSI  
Expanding Gate Valve**



**10000PSI  
Expanding Gate Valve**





## *Surface Safety Valves*

Used for security on well site

Hydraulic safety valve and pneumatic safety valve per driving source, heat sensitive and high pressure explosion-proof equipment

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 1.13/16" ~7.1/16" (46mm ~ 180mm)

Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

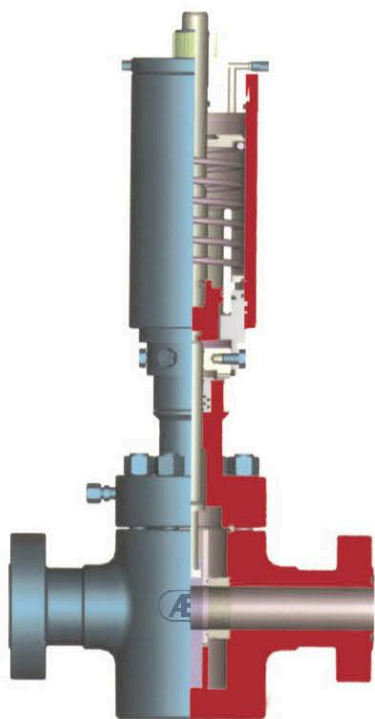
Working temperature: -46°~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2

Special sizes upon request



**Hydraulic Safety Valve**



**Pneumatic Safety Valve**

## *Valve with Ball Screw* *Valve with Gearbox*

### Valve with Ball Screw

Ball screw structure lowers operating time

Gate valve design

Stem structure is pressure balanced with switch indicator

Applies to big bore high pressure system

Working pressure: 2000PSI ~ 20000PS

Nominal Bore: 1.13/16" ~ 9" (46mm ~ 230mm)

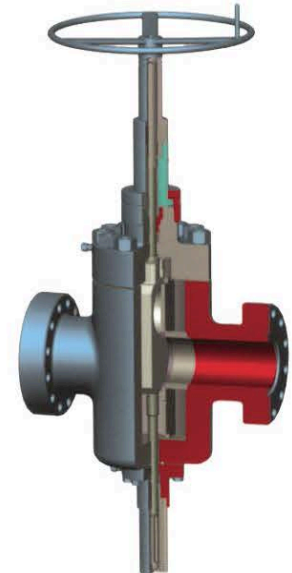
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46° ~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



### Valve with Gearbox

Switch driving sector gear or worm gear, effectively lowering

Operating time

Gate valve design

Stem structure is pressure balance with switch indication

Applies to big bore high pressure systems

Working pressure: 2000PSI ~ 20000PSI

Nominal Bore: 1.13/16" ~ 9" (46mm ~ 230mm)

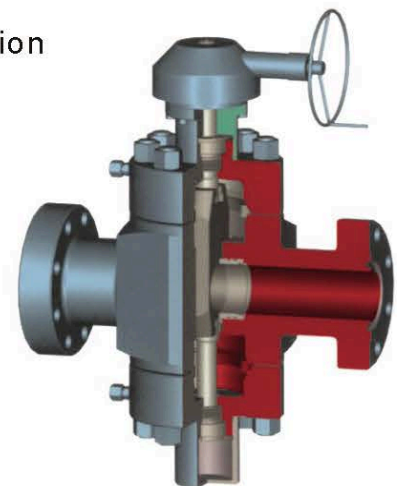
Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46° ~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2





## *Adjustable Choke Valves*

### **Choke Valve needle type and external sleeve type are available for Christmas tree**

Needle and core of hard alloy, wear resistance, washing resistance and corrosion resistance

The external sleeve choke valve has advantages of low switch torque, throttling and shutting fluid

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 1.13/16" ~7.1/16" (46mm ~ 180mm)

Working Medium: oil, natural gas, mud and gas

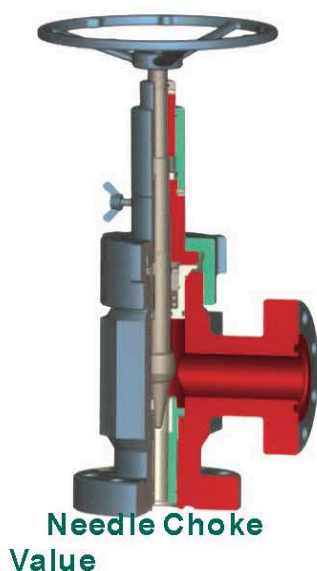
Containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46°~ 121°C (Class LU)

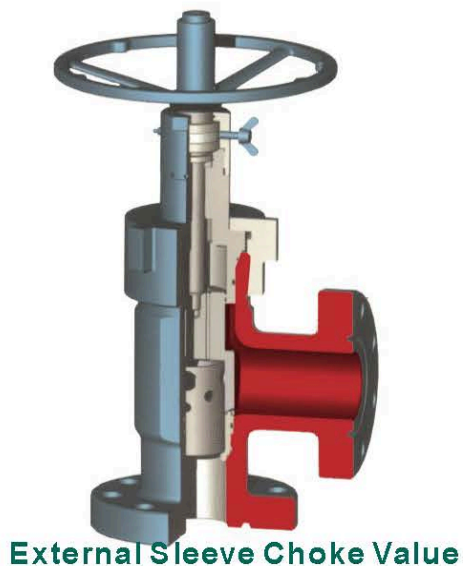
Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



**Needle Choke Value**



**External Sleeve Choke Value**

## *Positive Choke Valve and Check Valves*

### Positive Choke Valve

#### Features:

Convertibility. AES positive chokes can be converted readily to adjustable chokes by replacement of the interchangeable bonnet and internals

Hardened stems and seats to withstand erosive effects of highly abrasive materials

Bonnet to body self protecting tapered metal to metal seals integrity

Quick change connections for easy field maintenance

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 1.13/16" ~7.1/16" (46mm ~ 180mm)

Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46° ~ 121°C (Class LU)

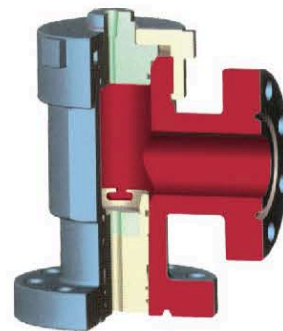
Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

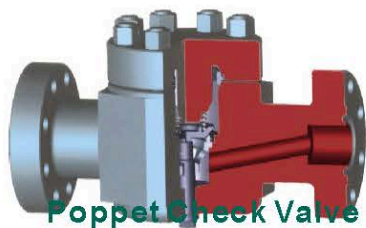
Performance Requirement: PR1~2

#### Applications:

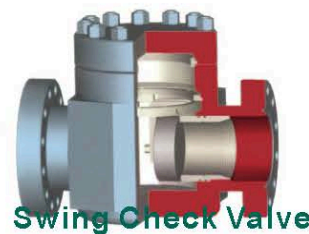
Production systems: Christmas tree



### Check Valve



Poppet Check Valve



Swing Check Valve

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 2.0/16" ~4.0/16" (52mm ~ 103mm)

Working Medium: oil, natural gas, mud and gas containing H<sub>2</sub>S, CO<sub>2</sub>

Working temperature: -46° ~ 121°C (Class LU)

Material Class: AA, BB, CC, DD, EE, FF, HH

Specification level: PSL 1~4

Performance Requirement: PR1~2



## ***Specialty Valve - Gas Well Head Equipment*** *(can be replaced without well killing)*

### **Production Introduction**

The equipment can be replaced while valve is under high pressure, which greatly reduces the operation risk and the cost of changing the valve and avoiding formation damage

This technology is significant to safety, production is quite economical

Technology can achieve gate valve replacement, making the equipment much simpler. The number of well head valves decreases. The equipment configuration can be adjusted according to consumers' needs

This equipment is installed once, can meet the need of high pressure operation and acidizing before production

also meets needs of gas production

Production design and manufacture standard: API Spec 6A

### **Market Benefits**

Common gate valves should be replaced under well killing, under this condition, the operation cost is high and the formation can be damaged seriously. This product's application is significant to ensure the safe production, operation cost is reduced greatly

### **Technical Scope**

Rated Pressure: 70MPa, 105MPa

Production Specification: PSL3G

Material Level: DD, EE Operation

Temperature: -29°~82°C



## *Drilling Chokes*

The stem and core are made of hard alloy, for wear resistance and water wash resistance

Easy flow adjust

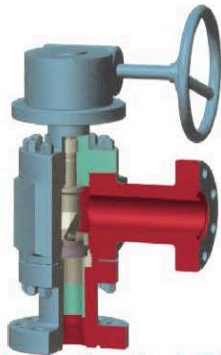
Applicable to choke manifold

Working pressure: 2000PSI ~ 20000PSI

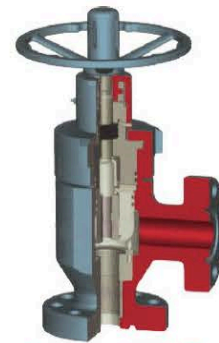
Nominal Bore: 2.1/16" ~ 4.1/16" (46mm ~ 103mm)

Working Medium: oil, natural gas, mud

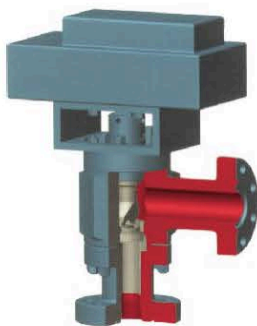
Working temperature: -46° ~ 121°C (Class LU)



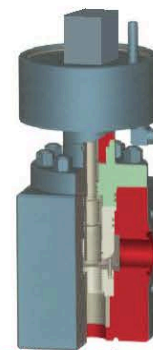
**Manually Actuated Disc Choke**



**Manually Actuated Cylindrical Gate Drilling Choke**



**Hydraulically Actuated Disc Choke**



**Hydraulically Actuated Cylindrical Gate Drilling Choke**



## *Choke Manifold*

Choke manifold supports the hydraulic BOP for Controlling Well blow out and well pressure

Well killing, replaces polluted slurry

Controls wellhead pressure of casing and pipe, restoring mud to control pressure at well bottom to stop overflow

Decrease well head pressure for "flexibility well shut off"

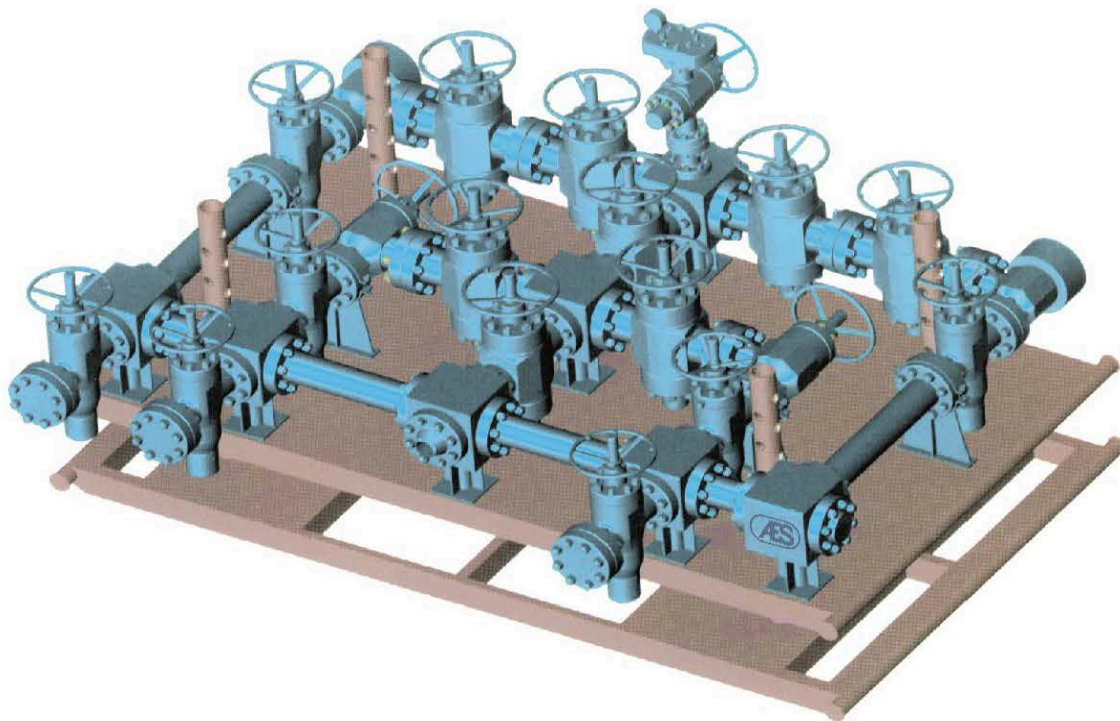
Furnished with hydraulic actuation for remote control

Working pressure: 2000PSI ~ 20000PSI

Nominal Bore: 2.1/16" ~ 4.1/16" (46mm ~ 103mm)

Working Medium: oil, natural gas, mud

Working temperature: -46° ~ 121°C (Class LU)





***Choke and Kill Manifolds are Designed and Manufactured to Customers requirements by IES***

**AES Gate valves (Manual & Actuated)**

AES API Studded Crosses and Tees

AES Positive and Adjustable

Choke Valves or customer specified alternative

Manual or Actuated Chokes

AES Adaptors, Flanges and Spools

AES Blinds, Crossovers and Fittings

AES Control systems or customer specified alternative

Manifolds fully hydrostatically tested and function tested prior to SHIPMENT

AES Instrument Blocks

**Standard Options**

API.6A, PSL 1,2,3 or 4

API.6A material classes AA, BB, CC, DD, EE, FF, HH

API.6A temperature ratings K through to X

Standard or H2S Service

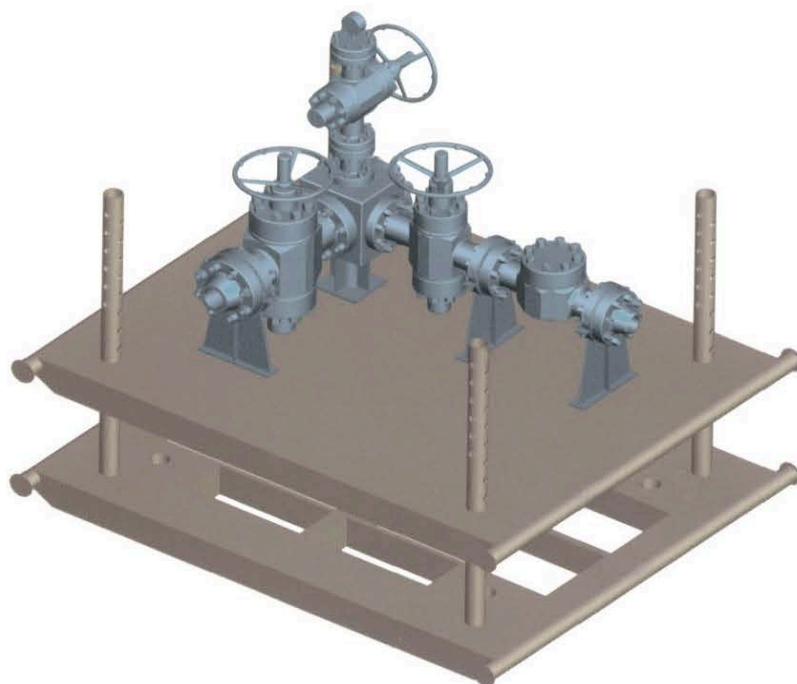
Single or Double Isolation

5,000, 10,000 or 15,000 psi 20,000 per API.6A

Gas testing to API.6A PSL3G

Skid mounted if required

With or Without walkway







## *Combination Manifold*

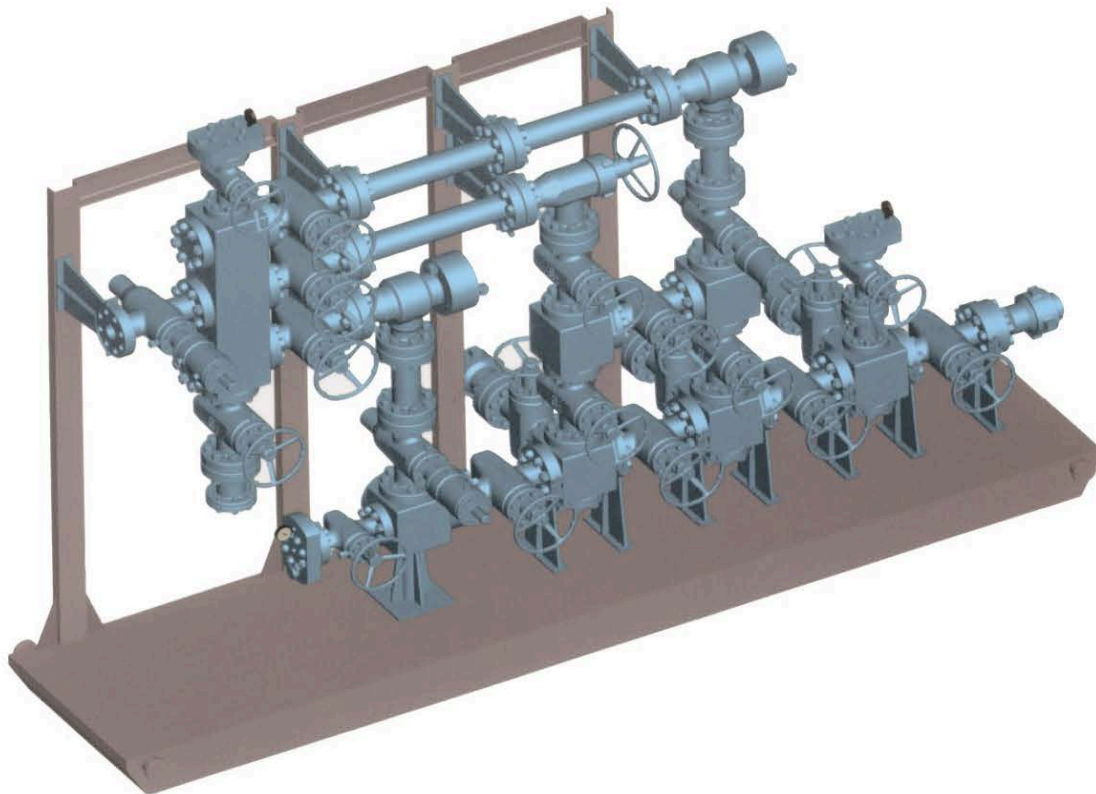
Combines choke function with kill function of manifold to save platform space

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 2.1/16" ~4.1/16" (46mm ~ 103mm)

Working Medium: oil, natural gas, mud

Working temperature: -46°~ 121°C (Class LU)



## *Mud Manifold Mud-Gas Separator*

### **Mud Manifold**

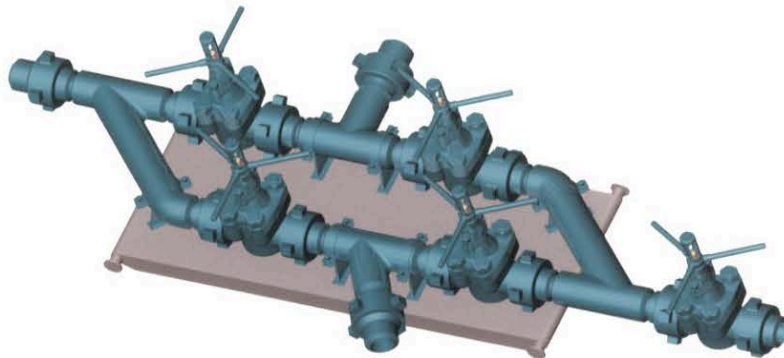
Mud manifold unites and divides mud during drilling, in order to have enough mud  
To get through top drive

Working pressure: 2000PSI ~20000PSI

Nominal Bore: 2.1/16" ~4.1/16" (46mm ~ 103mm)

Working Medium: oil, natural gas, mud

Working temperature: -46°~ 121°C (Class LU)

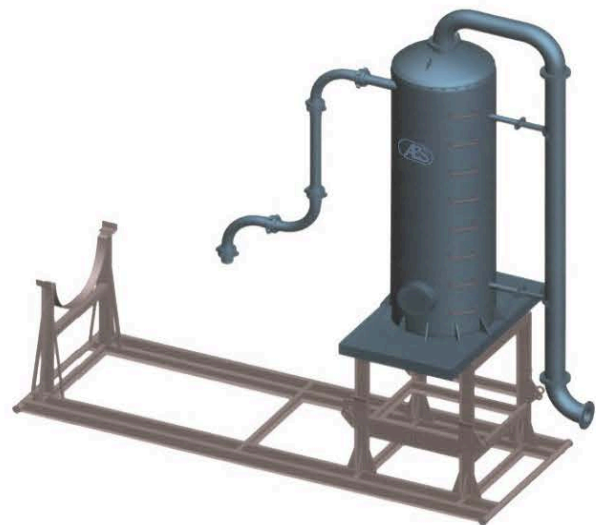


### **Mud-Gas Separator**

Completed with choke manifold  
Automatically separate gas and mud  
replaced from choke manifold, as well  
as reclaim mud on basis of settling  
principle

Working Pressure: 0.7MPa

Working Medium: oil, natural gas, mud





## **TERMS & CONDITIONS**

### **ACCEPTANCE**

All orders are subject to final acceptance by AES Flow Controls acknowledgment of the order has been sent to the buyer by AES.

No order is binding on AES unless and until a written

### **F.O.B. POINT**

All shipments are F.O.B. AES plant or other AES designed point.

### **DELIVERIES**

All promises of shipments are estimated as closely as possible based on the availability of material or capacity is subject to change due to conditions beyond AES's control (i.e.: labor trouble, civil turmoil, delays by subcontractors, etc.)

### **PAYMENT TERMS**

Unless alternate less effective payment terms are specified or approved by AES Credit Department all charges including applicable packing and transportation costs billed by AES are cash in advance or progress payments alternate forms of payment are irrevocable. Confirmed letter of credit with RED CLAUSE standard to provide AES which is a labor intense manufacturing company the ability to produce your product, letters of credit should be confirmed in a respected U.S. Bank

At AES's option interest may be charged at the rate of ten percent (10%) PER annum unless such rate contravenes local law in which case the interest charges will be the maximum allowed by law. Operating production, well conditions and delay from user or agent or which prevents satisfactory operation of Equipment. Service or Products, does not relieve CUSTOMER of its payment.

### **CANCELLATION POLICY**

Orders for Products, which are subject to cancellation after acceptance by AES will be subject to a restocking charge of at least twenty-five percent (25%) plus any actual packing and transportation costs. Products specially built or manufactured to CUSTOMER specifications or orders for substantial quantities manufactured specially for CUSTOMER may be subject to 100% cancellation charge. No credit will be given for shipping charges incurred by CUSTOMER in no event will order be allowed for products returned without prior written authorization by AES.

### **WARRANTY**

AES Flow Controls, LLC hereinafter referred to as AES, warrants its valve(s) to be free of defects in material and/or workmanship for a period of one (1) year from date of shipment. If defects in material and/or workmanship occur during said one (1) year period AES will, at AES's option, replace or repair the valve(s) under the following conditions.

1. Valve(s) is/are installed to specified industry standards by qualified certified personnel
2. Valve(s) was/were not used in a service that is not suitable for the valve design
3. Official AES damaged valve report must be returned to AES for review by AES quality Assurance Personnel
4. Any defective valve(s) must be returned to AES for review by AES quality Assurance Personnel
5. Seller shall not be responsible for labor expenses or other damages occasioned by defective valve(s)
6. To the extent consistent with the Uniform Commercial Code under no circumstances shall Seller be liable for consequential or secondary damages
7. Warranty is limited to AES valves only. AES is not responsible for any claims against accessories

UNLESS ANY REPAIR OR WORK ON AES VALVE(S) IS AUTHORIZED FIRST IN WRITING BY AES "AUTHORIZED PERSONELL" APPLICABLE WARRANTY WILL BE NULL AND VOID

OTHER THAN THE WARRANTY STATED ABOVE SELLER DISCLAIMS ANY WARRANTY OF MERCHANTABILITY WITH RESPECT TO THE GOODS BEING SOLD. THE WARRANTY ABOVE IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED WITH RESPECT TO WARRANTIES. THIS PARAGRAPH STATES BUYER'S EXCLUSIVE REMEDY AND SELLER'S EXCLUSIVE LIABILITY.

Thank you!  
AES Management



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Contact: [info@aesflowcontrols.com](mailto:info@aesflowcontrols.com)