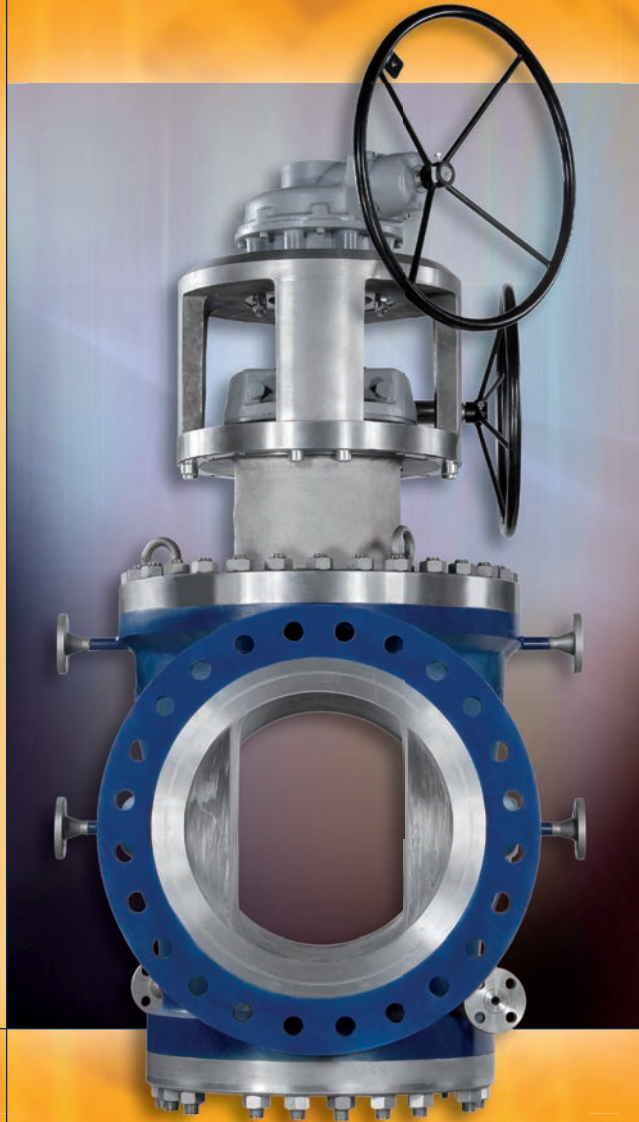


Lift Plug Valves

Metal-To-Metal Sealing

Multi-Way Valves

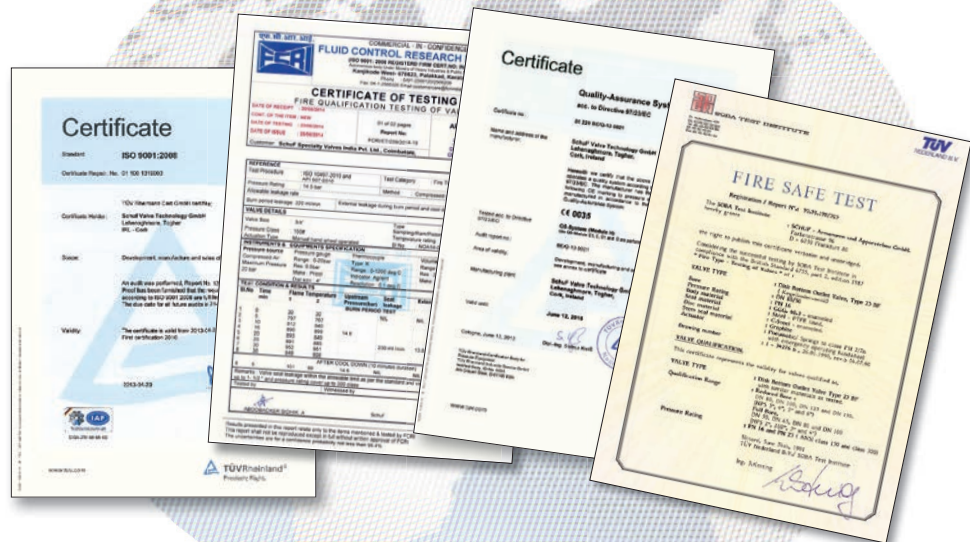


SchuFI 



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SchuF is fully registered, accredited and certified worldwide

Lift Plug Valves

Patented Innovation

SchuF is a highly specialised group of companies, whose expertise is the design and manufacture of process valves for critical service applications. SchuF is the inventor of the Lift Plug Valve. The patent dates back to 1914. Since its invention, SchuF has continued to develop this type of valve, with many innovations. These include the addition of electric or hydraulic actuators, and new applications such as switching variants. SchuF also pioneered the inverted plug design, which can be serviced in-line; designed flushing systems; and several high-pressure and high-vacuum versions. SchuF's special high-temperature valve range can be used in operating conditions up to 1200°C.

Material Choice

SchuF's strengths include flexibility of design and construction. We have produced Lift Plug valves in all stainless steels, C12, high Nickel alloys, Titanium and

Zirconium, with many different coatings, including stellite and gold plating. SchuF uses special surface coatings and trunnion spindle guiding to help improve resistance against vibration and erosion.

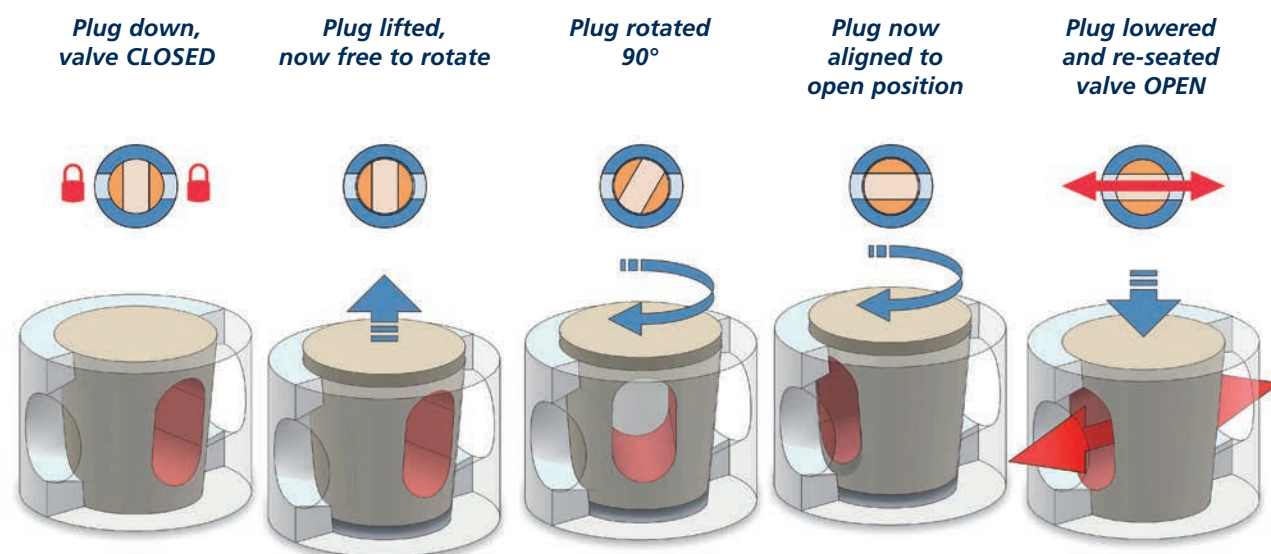
Reliable Operation

SchuF Lift Plug Valves come equipped with manual or electric actuators. The SchuF Lift-Turn-(re)Seat (LTS) actuator converts simple rotation movement to lift, turn and reseat the plug. A master/slave electric actuator arrangement simplifies control and helps protect against incorrect operation.



The Lift Plug Principal: Simple operation, distinct advantages

The valve essentially consists of only two parts: the body and the plug. There are no sealing rings, bellows or gaskets. There is little to break, fail, or clog. This design provides 100% seal tightness, smaller actuator requirements, non-wearing internal movement, and full-bore unimpeded flow. Note that the bore can be fully round (piggable) or roval (for full flow) as required, roval option shown below.

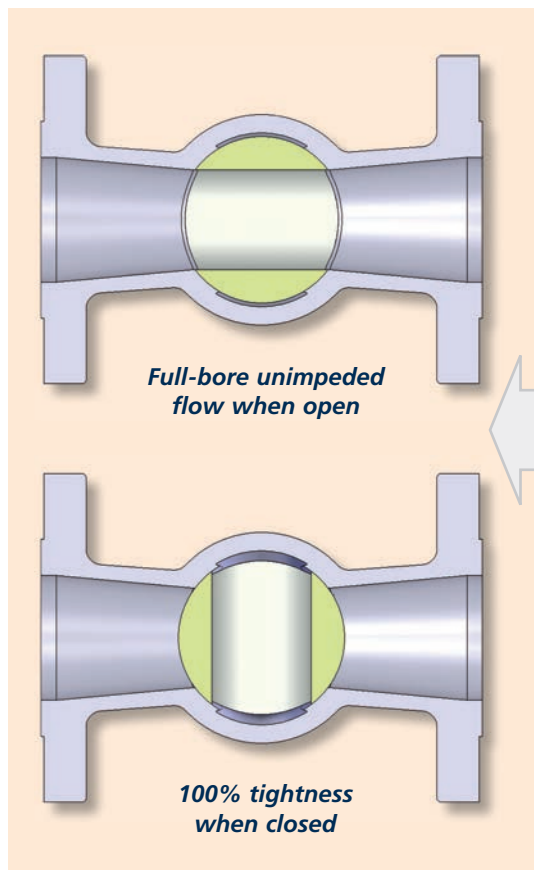
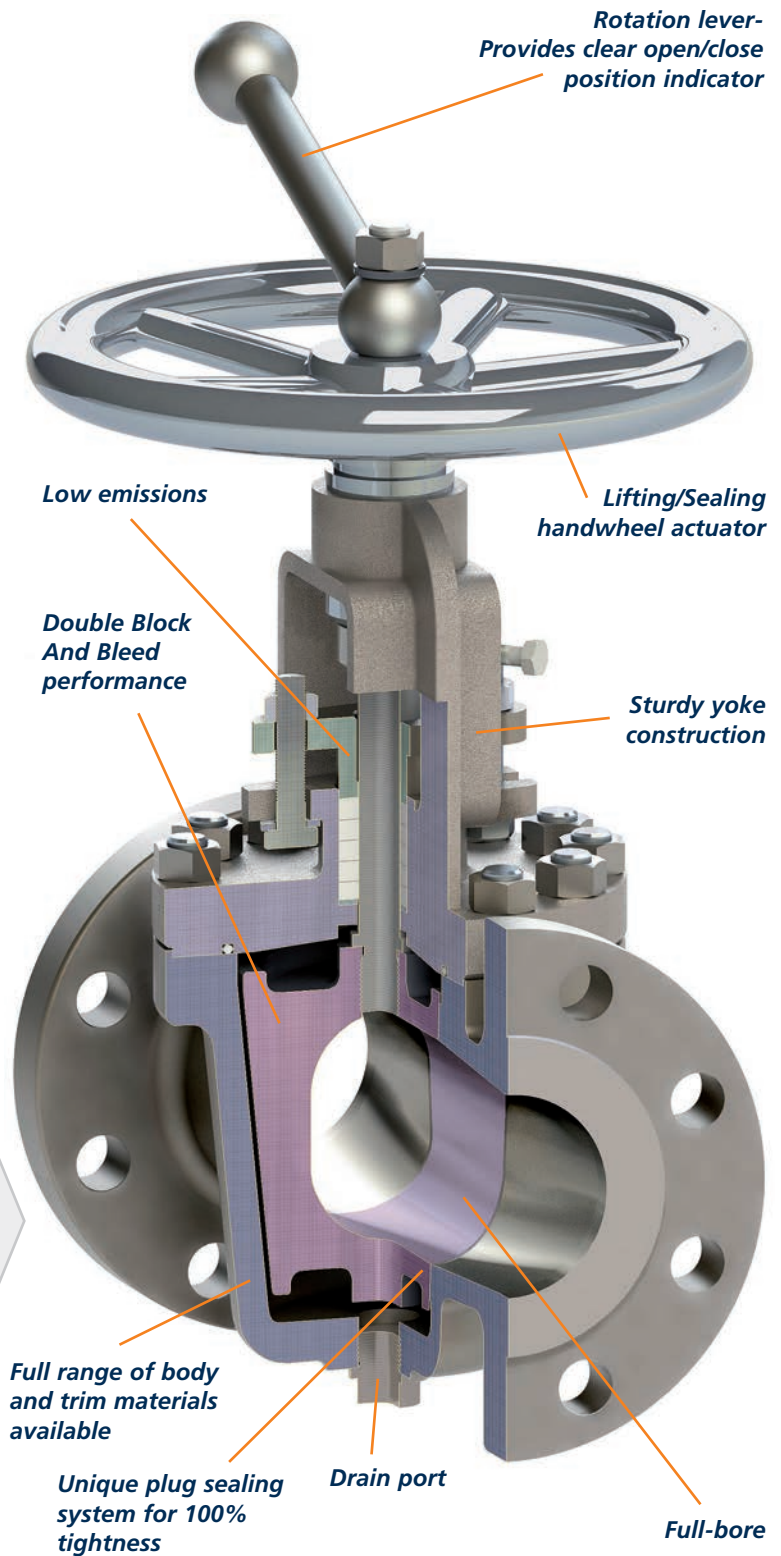


Standard Lift Plug Valves

Features

When SchuF invented the Lift Plug Valve it was the first ever **'Double Block And Bleed'** valve, a new standard for safety and reliability.

The simple and rugged design make it suitable for severe applications at high temperatures or with highly abrasive or erosive materials such as TDI, PET, PTA, CTG, PDH, styrene, or acetic acid. In those situations, the Lift Plug Valve has proven to be an ideal isolation valve with many advantages over traditional ball valves. This is due to the fact that the seal to the process does not wear as the plug is lifted before turning.



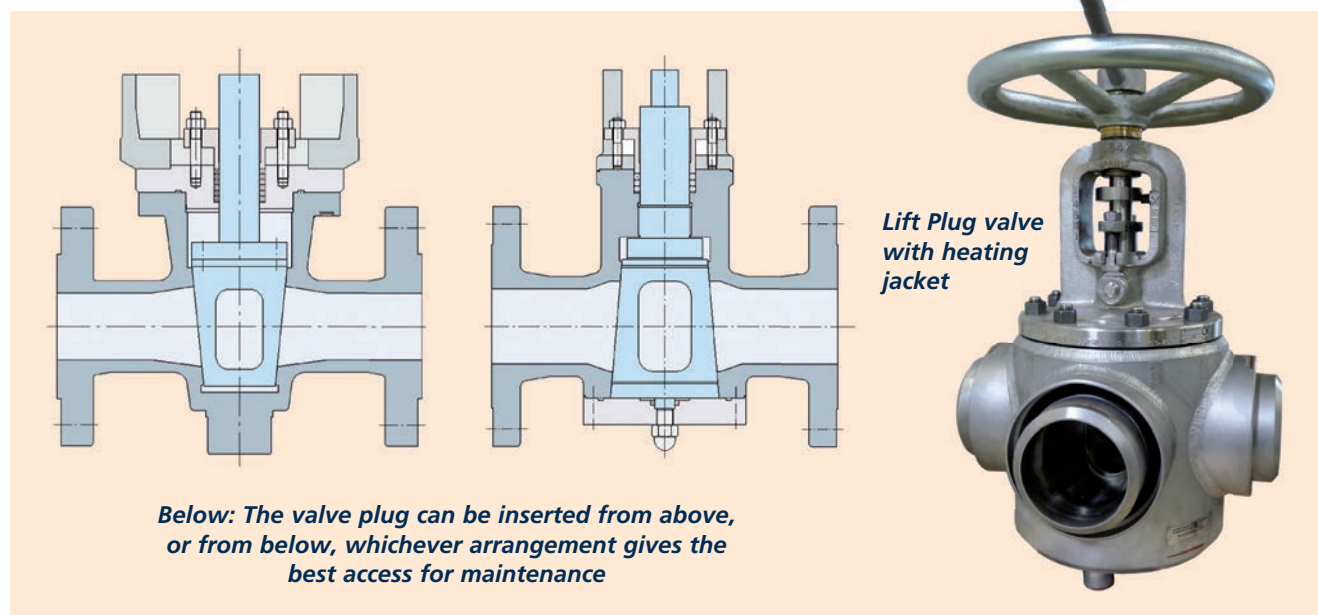
Standard Lift Plug Valves

Common Lift Plug Design Principles

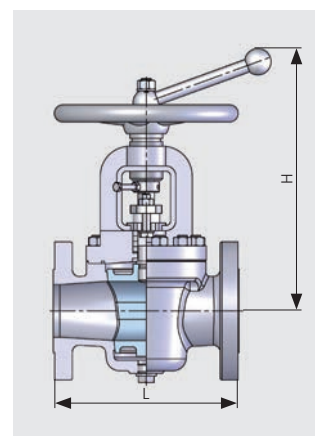
- **Dead-space free** during flow
- **Integral 'Double Block And Bleed'** design that ensures a perfect seal
- **Protected Valve Seat (PVS)** – valve life will be increased as plug-to-body sealing faces are protected during media flow
- **Top- or bottom-entry** for ease of maintenance
- **Non-friction** operation
- **Manual actuation as standard**
- **Roval or round (piggable) port**
- **Full- or reduced-bore**

Additional Options

- **Optional flushing and/or purging** (if required by the process) is still only required during operation from open to close or vice versa. This leads to significant cost savings in comparison with other valve designs (i.e. ball valve), which can require constant flushing
- **High-temperature** and **high-pressure** designs
- **Electric, pneumatic, and hydraulic actuation**
- **Automated Control Panel (ACP)** can be used to control single or multiple valves, actuators and sensors



| Size | L Face-to-face (mm) | | | H Height (approx, mm) | | | Weight (approx) (kg) Manual | | |
|------------|------------------------|------|------|--------------------------|------|------|--------------------------------|------|------|
| Rating | A S M E | | | A S M E | | | A S M E | | |
| Size | 150–300# | 600# | 900# | 150–300# | 600# | 900# | 150–300# | 600# | 900# |
| DN 25/ 1" | 165 | 216 | 254 | 350 | 350 | 400 | 30 | 30 | 40 |
| DN 50/ 2" | 216 | 292 | 368 | 400 | 400 | 450 | 40 | 40 | 70 |
| DN 80/ 3" | 282 | 356 | 381 | 400 | 400 | 450 | 80 | 90 | 120 |
| DN 100/ 4" | 305 | 432 | 457 | 500 | 500 | 550 | 90 | 90 | 150 |
| DN 125/ 5" | 381 | 508 | 559 | 500 | 500 | 550 | 130 | 130 | 200 |
| DN 150/ 6" | 403 | 559 | 610 | 600 | 600 | 700 | 150 | 150 | 250 |
| DN 200/ 8" | 502 | 660 | – | 700 | 700 | – | 250 | 300 | – |
| DN 250/10" | 568 | 787 | – | 800 | 800 | – | 400 | 500 | – |
| DN 300/12" | 711 | 838 | – | 1000 | 1000 | – | 600 | 800 | – |



IsoPlug Valves

Features

The IsoPlug valve is a special-design lift plug valve that has been modified to meet the exacting requirements of processes which involve high temperatures and dirty media, such as Delayed Coking and Visbreaking. The IsoPlug valve features the unique 3-line **CDS (Coking Defence System)** package, which comprises of steam flushing, draining, and a retractable bottom lid that enables the valve to be cleaned in-line. The **CDS** package ensures that the valve can always be kept clean, and avoids coke build-up.

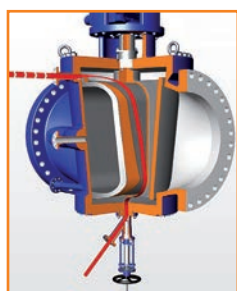
Coking Defence System



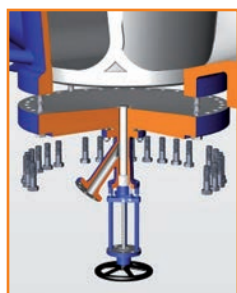
This IsoPlug image (left) shows the media (blue) with the plug in open position. The top actuator has been engaged and the plug starts to rise. Note how flushing takes place during plug lifting (red lines). This is the **first** line of defence of the **Coking Defence System**.



In this image, the second actuator has now been engaged and we can see that the plug is turning. Flushing (shown again as red lines) will now take place in, around, above and below the plug.

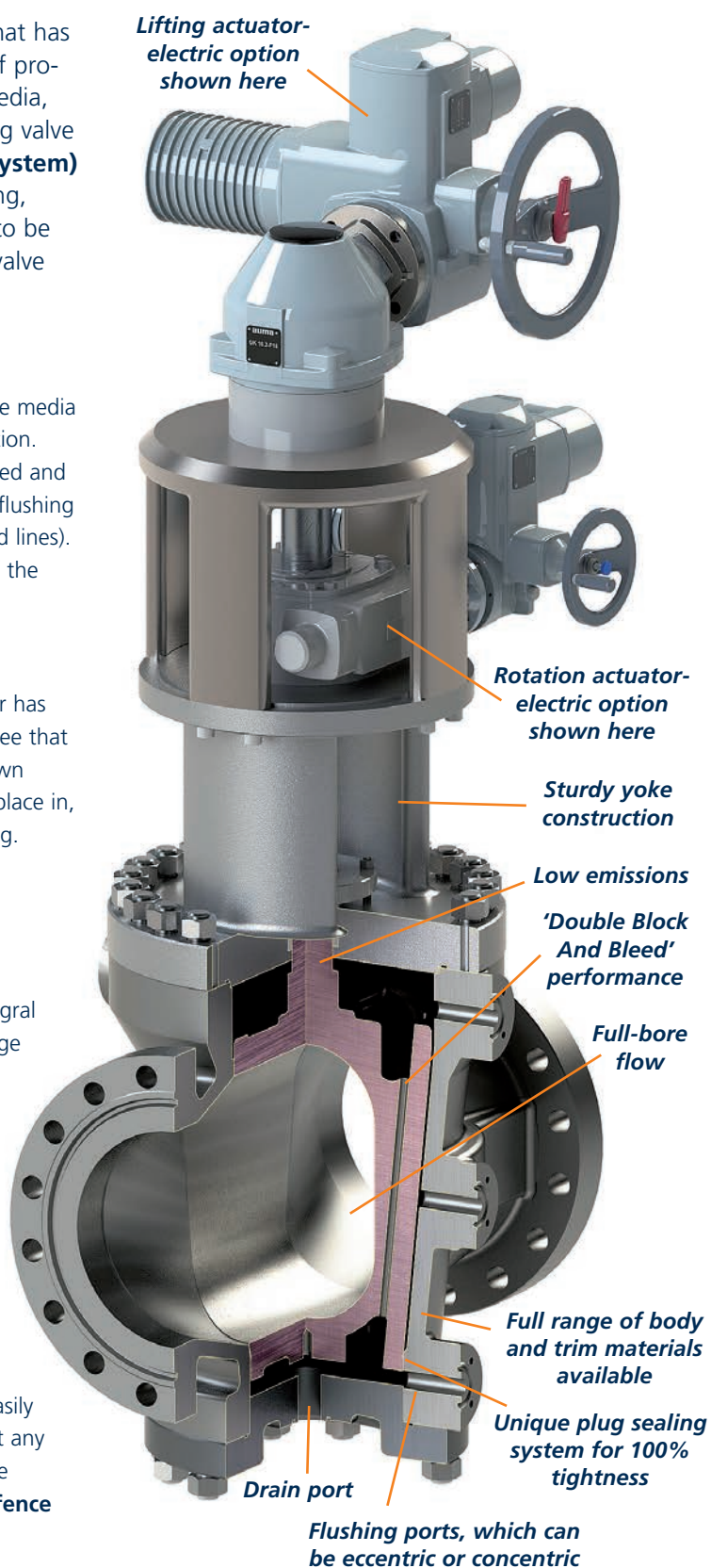


When the plug is seated, the integral flush drain valve can open. A purge has been activated, and this will clean any remaining sediment or debris above or below the valve plug- the **second** part of the **Coking Defence System**.



While the valve is in-line and the process off-line, and the flushing medium has been removed, the bottom of an IsoPlug valve can easily be lowered/ retracted to carry out any necessary maintenance. This is the **third** element of the **Coking Defence System**.

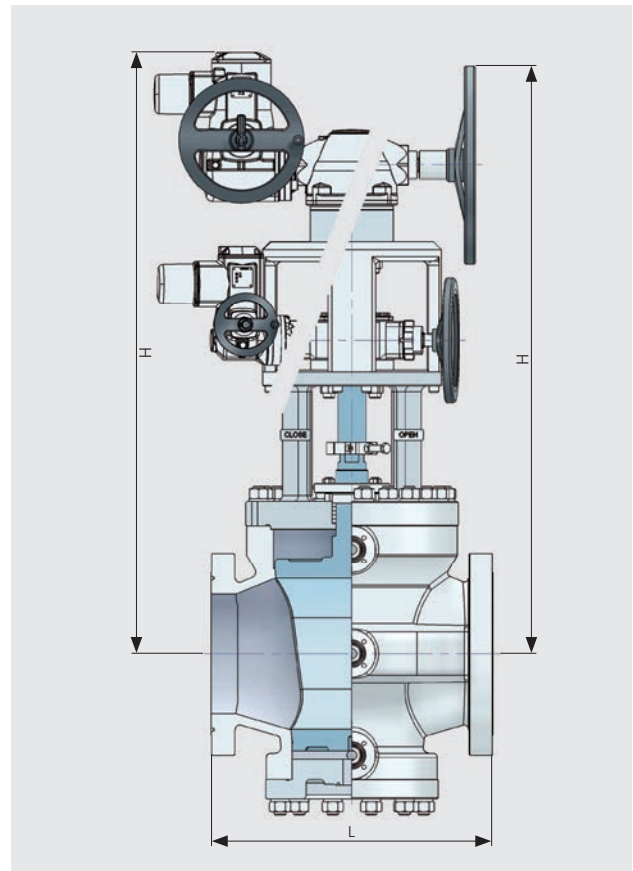
Note: Drain valve can also be mounted horizontally (shown vertically here)



IsoPlug Valves

Key Design Principles

- See page 4 for **Common Lift Plug Design Principles**
- **Integral Strength** – in addition to technical innovations such as the optional CDS package (see opposite), the demanding requirements of the processes for which IsoPlug valves are designed result in a number of approaches to ensure maximum durability and reliability. These include single-piece casting of the yoke and upper body-flange/lid, which eliminates weld fatigue potential. Similarly, the plug and plug stem are cast as a single component, with the actuator spindle connection to the plug stem being visible in the yoke.
- **Complex functionality in a minimal package** – each IsoPlug valve is designed to best fit its specific plant position, and items such as the drain valve can be located in the ideal orientation for access. The IsoPlug flushing ports can also be supplied in eccentric or concentric configurations.



| Variable | | L Face-to-face (mm) | | | H Height (approx, mm) | | | Weight (approx) (kg) Manual/Electrical | | |
|----------------|--|------------------------|------|------|--------------------------|------|------|---|------------|-----------|
| Rating Size | | A S M E | | | A S M E | | | A S M E | | |
| | | 150–300# | 600# | 900# | 150–300# | 600# | 900# | 150–300# | 600# | 900# |
| DN 25/ 1" | | 165 | 216 | 254 | 500 | 500 | 600 | 30/70 | 30/70 | 70/110 |
| DN 50/ 2" | | 216 | 292 | 368 | 750 | 750 | 800 | 60/100 | 60/100 | 110/150 |
| DN 80/ 3" | | 282 | 356 | 381 | 1000 | 1000 | 1050 | 90/130 | 90/130 | 190/230 |
| DN 100/ 4" | | 305 | 432 | 457 | 1000 | 1000 | 1100 | 150/200 | 150/200 | 300/350 |
| DN 125/ 5" | | 381 | 508 | 559 | 1000 | 1000 | 1100 | 200/270 | 200/270 | 380/450 |
| DN 150/ 6" | | 403 | 559 | 610 | 1100 | 1100 | 1200 | 250/320 | 350/420 | 500/580 |
| DN 200/ 8" | | 502 | 660 | 737 | 1200 | 1200 | 1300 | 500/570 | 600/670 | 900/980 |
| DN 250/10" | | 568 | 757 | 838 | 1200 | 1200 | 1300 | 600/670 | 700/770 | 1100/1200 |
| DN 300/12" | | 711 | 838 | 965 | 1500 | 1500 | 1600 | 1000/1080 | 1300/1380 | 1800/1900 |
| DN 350/14" | | 762 | 889 | 1029 | 1500 | 1500 | 1600 | 1400/1480 | 1700/1800 | 2100/2200 |
| DN 400/16" | | 838 | 991 | 1130 | 1700 | 1700 | 1800 | 1800/1900 | 2200/2300 | 2900/3000 |
| DN 450/18" | | 914 | 1092 | 1219 | 1700 | 1700 | 1800 | 2000/2100 | 2400/2500 | 2400/2500 |
| DN 500/20" | | 991 | 1194 | 1321 | 1800 | 1800 | 1900 | 2400/2500 | 2900/3000 | 4100/4200 |
| DN 600/24" | | 1143 | 1397 | 1549 | 2000 | 2000 | 2100 | 3800/4000 | 4500/4700 | 6300/6500 |
| DN 700/28" | | 1346 | 1549 | – | 2000 | 2000 | – | 4600/4800 | 5300/5500 | – |
| DN 750/30" | | 1397 | 1651 | – | 2100 | 2100 | – | 5300/5500 | 6300/6500 | – |
| DN 800/32" | | 1524 | 1778 | – | 2100 | 2100 | – | 5800/6000 | 6600/6800 | – |
| DN 900/36" | | 1727 | 2083 | – | 2200 | 2200 | – | 8800/9000 | 9800/10000 | – |

SwitchPlug Multi-Way Valves

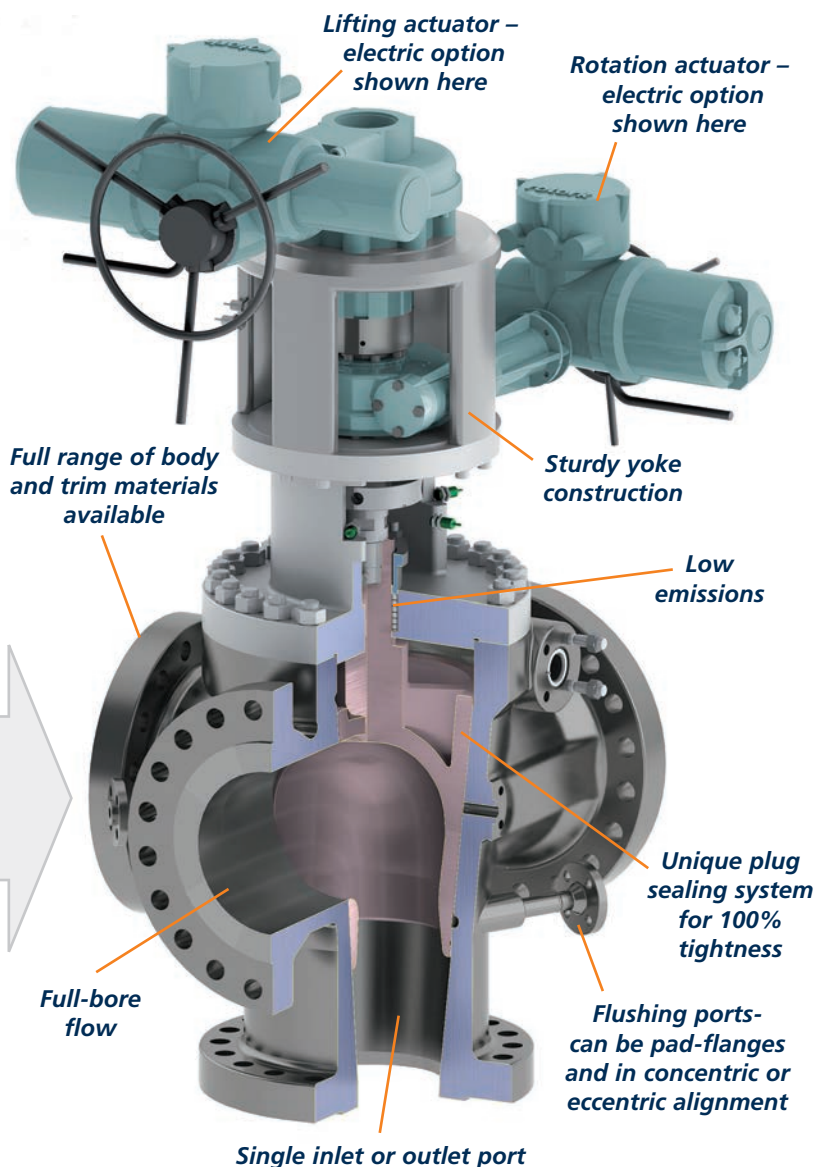
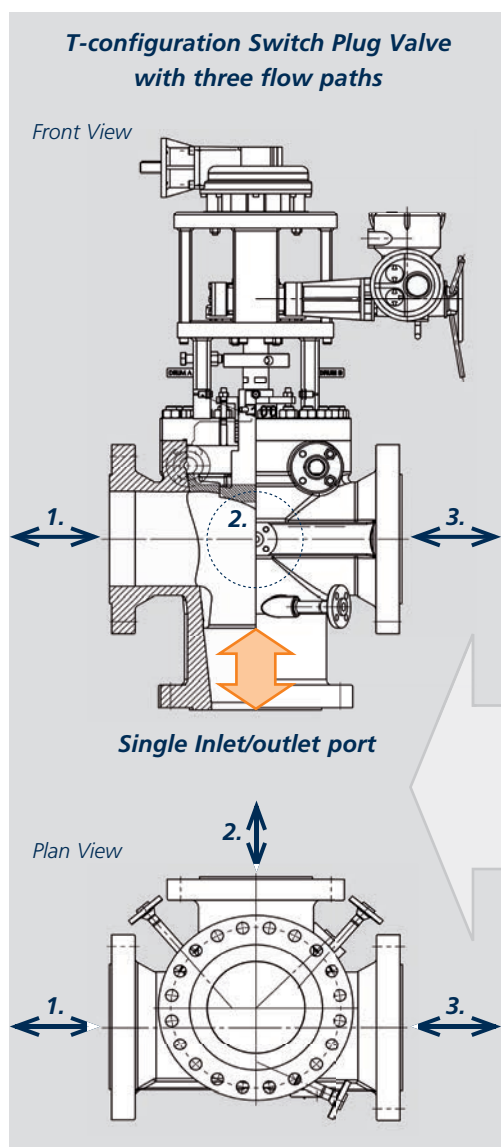
Features

The SchuF SwitchPlug valve is a switching valve with typically one inlet and three outlets. It is used to switch media flow from one outlet to another in a defined sequence, while isolating all other outlets.

It is commonly used in the refining industry for delayed coking due to its leak-tight metal-to-metal sealing characteristics and suitability for high temperature operation. The SwitchPlug consists of only a few moving parts – body, plug and actuator – and is therefore highly reliable.

There is no gap between the plug and the valve body, where the fluid or process particles could settle, damage piping, or score the valve. Flushing is therefore only required while the plug is lifted.

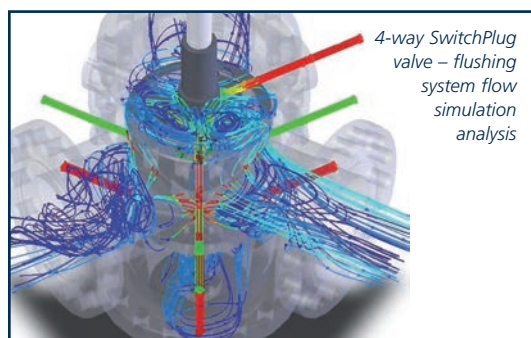
- Size: 6" (DN150) to 24" (DN600)
- Pressure Class: ASME 150# to 2500#
- 2, 3, 4 or more outlets
- 'L', 'T' or 'Y' configurations
- Full-bore round plug design
- High throughput during switching, no dead-ending
- Dual motor actuation
- 3-line Coking Defence System (CDS) option
- Integral flushing options



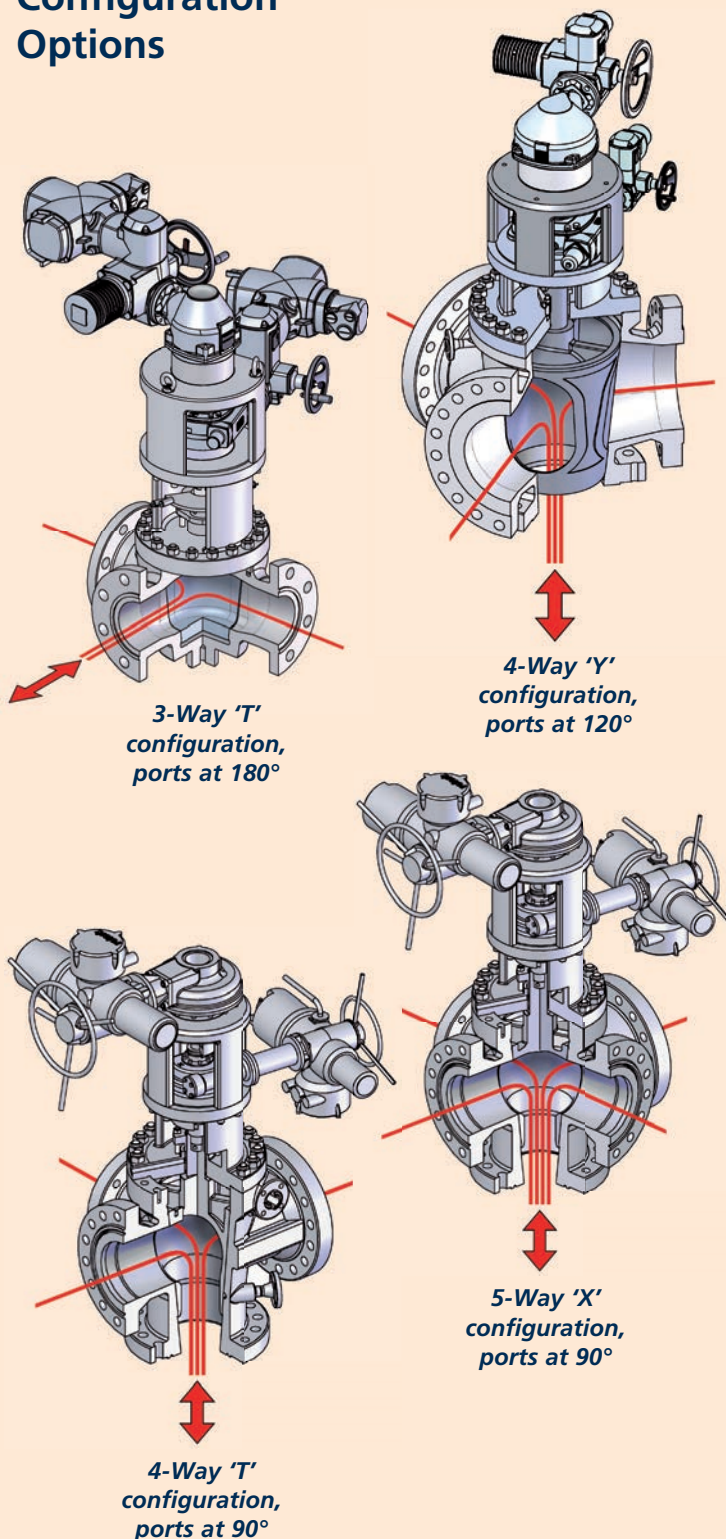
SwitchPlug Multi-Way Valves

Key Design Principles

- **Benefits** – the SwitchPlug is designed to outperform conventional valves (e.g. ball valves) in services where sediments or, for example, coke particles can collect and cause equipment failure. In fact, the **Coking Defence System** developed by SchuF features a combination of gap-free design, integrated drain valves and distributed and tangential flushing (see image below) to ensure optimal coke-free valve operation.
- **'Y' or 'T' Design** – SchuF can provide the SwitchPlug in either a 'Y' (120°) or 'T' (90°) configuration. This allows for greater piping flexibility, particularly in existing plants or for revamps. The SwitchPlug can also be mounted in horizontal or vertical positions.
- **Dual Actuation** – the SwitchPlug operates with two actuators – one to lift and lower the plug and a second one to rotate it to the required position. The lower torque requirement leads to longer actuator life, reduces maintenance and eliminates plug sticking.
- **Flow Regulation Mechanism** – the SwitchPlug actuators are provided with an integral control system. This ensures accurate positioning of the plug to the outlets or bypass line – time and time again. For example, in the Coking process, it enables proportionate distribution of the coke media between two lines or drums – e.g. 70% / 30%. Greater than 70% of the flow throughput can be achieved even in these intermediate positions.



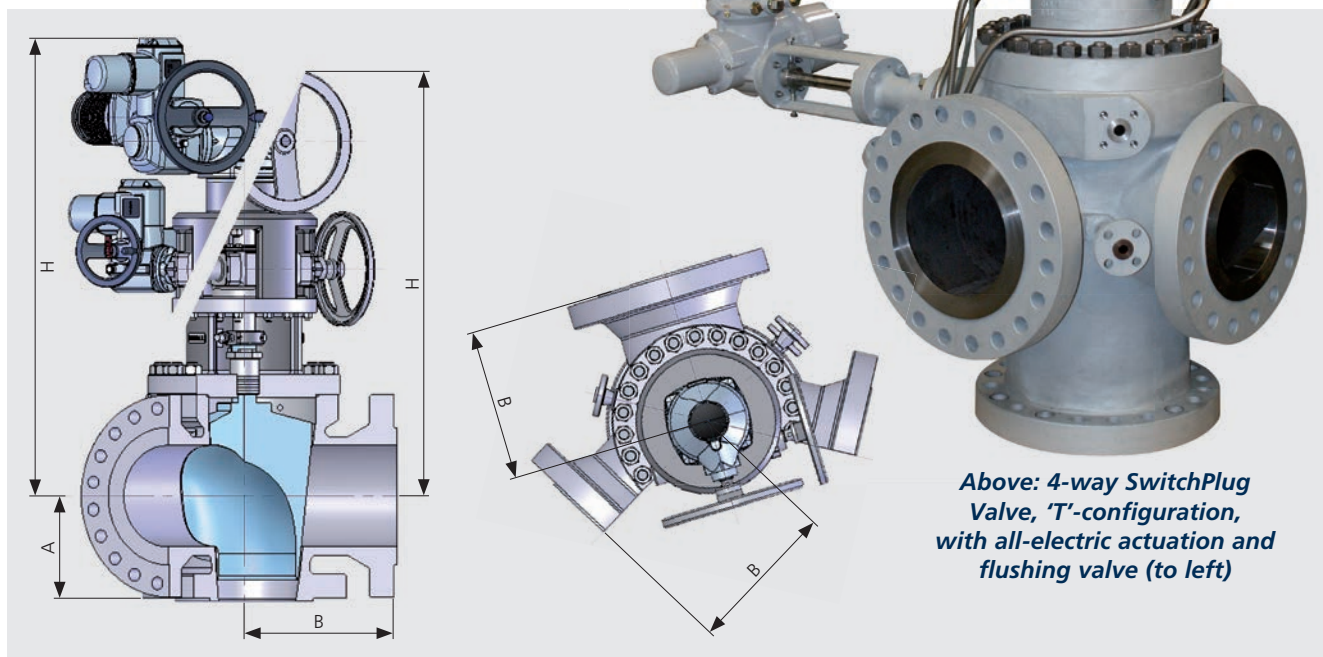
Configuration Options



SwitchPlug Multi-Way Valves

Flexibility of Design

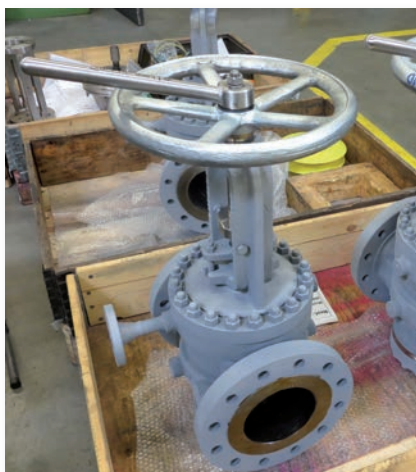
The SchuF SwitchPlug principal of design offers great flexibility in matching new valves to very specific customer requirements. The plug can be upward- or downward-oriented, whichever allows easier maintenance access. Electric actuation can incorporate the SchuF Lift-Turn-Seal operation. All flush and purge connections can be oversized.



| Variable | A Dimension Inlet (mm) | | | B Dimension Outlet (mm) | | | H Height (approx, mm) | | | Weight (approx) (kg) Manual/Electrical | | |
|------------|---------------------------|------|------|----------------------------|------|------|--------------------------|------|------|---|-----------|-----------|
| Rating | A S M E | | | A S M E | | | A S M E | | | A S M E | | |
| Size | 150-300# | 600# | 900# | 150-300# | 600# | 900# | 150-300# | 600# | 900# | 150-300# | 600# | 900# |
| DN 25/ 1" | 100 | 110 | 130 | 100 | 110 | 130 | 500 | 500 | 600 | 40/80 | 40/80 | 80/120 |
| DN 50/ 2" | 130 | 140 | 170 | 130 | 140 | 170 | 750 | 750 | 800 | 70/110 | 70/110 | 120/160 |
| DN 80/ 3" | 170 | 180 | 200 | 170 | 180 | 200 | 1000 | 1000 | 1050 | 110/150 | 110/150 | 210/250 |
| DN 100/ 4" | 200 | 220 | 230 | 200 | 220 | 230 | 1000 | 1000 | 1100 | 170/220 | 170/220 | 320/370 |
| DN 125/ 5" | 220 | 240 | 280 | 220 | 240 | 280 | 1000 | 1000 | 1100 | 230/300 | 230/300 | 420/490 |
| DN 150/ 6" | 250 | 280 | 300 | 250 | 280 | 300 | 1100 | 1100 | 1200 | 280/350 | 380/450 | 550/630 |
| DN 200/ 8" | 329 | 350 | 370 | 329 | 350 | 370 | 1200 | 1200 | 1300 | 540/610 | 640/710 | 1000/1080 |
| DN 250/10" | 378 | 400 | 420 | 378 | 400 | 420 | 1200 | 1200 | 1300 | 650/720 | 750/820 | 1200/1300 |
| DN 300/12" | 428 | 450 | 480 | 428 | 450 | 480 | 1500 | 1500 | 1600 | 1100/1180 | 1400/1480 | 2000/2100 |
| DN 350/14" | 428 | 450 | 500 | 458 | 480 | 500 | 1500 | 1500 | 1600 | 1500/1580 | 1850/1950 | 2300/2400 |
| DN 400/16" | 454 | 480 | 550 | 484 | 510 | 550 | 1700 | 1700 | 1800 | 1950/2050 | 2400/2500 | 3200/3300 |
| DN 450/18" | 454 | 480 | 620 | 521 | 550 | 620 | 1700 | 1700 | 1800 | 2200/2300 | 2650/2750 | 3800/3900 |
| DN 500/20" | 600 | 640 | 750 | 600 | 640 | 750 | 1800 | 1800 | 1900 | 2800/2900 | 3500/3600 | 4900/5000 |
| DN 600/24" | 750 | 800 | 900 | 750 | 800 | 900 | 2000 | 2000 | 2100 | 4400/4600 | 5300/5500 | 7300/7500 |

General Specifications

| | Standard Lift Plug Valves | IsoPlug Valves | SwitchPlug Valves |
|--------------------------------|---|----------------|-------------------|
| Rating | ASME Class 150# to 2500# High temperature version to 1200 °C | | |
| Size | | | |
| Standard | 1/2" to 36" | 6" to 36" | 6" to 24" |
| Materials | | | |
| Body | Stainless Steel, Duplex, Hastelloy, Incoloy, Inconel Titanium, WCB, WC6, C12, C12A, C5, other on request | | |
| Bore | Full-bore roval or round | | |
| Options | | | |
| Flanges | Fully flanged RF and RTJ, DIN, ASME or through bolt holes | | |
| Jacketing | Full or partial jacketing | | |
| Purge and Flushing connections | Five connections as standard: less or more on request Port size: 3/4" or 1", larger on request | | |
| Flow Direction | Bi-directional | | |
| Actuation | Manual, electric, pneumatic or hydraulic | | |



Lift Plug Cv Values (full Bore)

| Size (") | Size (DN) | Cv |
|----------|-----------|--------|
| 4 | 100 | 3100 |
| 8 | 200 | 10000 |
| 10 | 250 | 16000 |
| 12 | 300 | 22000 |
| 14 | 350 | 31000 |
| 16 | 400 | 42000 |
| 18 | 450 | 57000 |
| 20 | 500 | 71000 |
| 24 | 600 | 105000 |
| 30 | 750 | 175000 |
| 36 | 900 | 290000 |

Lift Plug Standards

| DESIGN | QUALITY | FLANGES | TESTING | SOUR SERVICE |
|------------------|----------------|-------------|-------------|---------------|
| ASME B16.34 | PED 2014/68/EU | ASME B16.5 | EN 10204 | NACE MR-01-75 |
| ASME B&P.V. CODE | EN ISO 9001 | ASME B16.34 | API 598 | NACE MR0103 |
| ASME 31.8/31.4 | TR CU 032/2013 | ASME B16.47 | ASME B16.34 | EN ISO 15156 |
| EN 12516 | | EN 1092-1 | API 6D | |
| API 6D | | | | |



Case Studies

Catofin Dehydrogenation

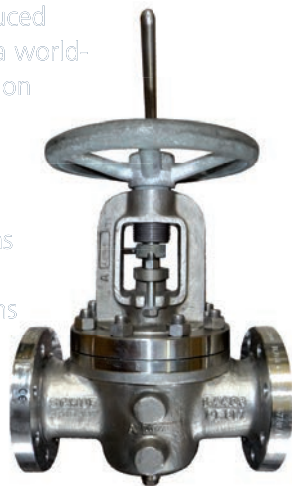
A leading provider of plastics runs an Air Products Catofin Dehydrogenation plant.

- A de-oiler stripper takes C4+ heavies from C3 gas (propane); the bottom stream heavies are sent to 2 re-boilers to further remove C3.
- Initially our client equipped the lines to and from the stripper with double block and bleed gate valves and spectacle plates. These could not provide the seal-tightness required, and coke lumps also formed in the lines from the stripping column. A switch to knife-gate valves was considered before the client chose a SchuF Lift Plug valve as a 'Double Block And Bleed' valve.
- The Lift Plug valve stopped the leakage and proved to work well in dirty service, as it allowed the seat to be cleaned by grinding during closure.
- After two years of successful operation, an additional Lift Plug valve was bought from SchuF for the 2nd re-boiler.

Acetic Acid Service

Corrosion resistance a primary concern

- Acetic acid is a widely produced industrial commodity, with a world-wide demand of over 6 million tonnes per year.
- Our customer is a leading supplier of acetic acid and thus corrosion resistance was a primary concern when discussing valve specifications and requirements.
- Design temperatures of over 200°C at pressures of almost 40 bar made the corrosion issue even more of a concern- SchuF designed and supplied Lift Plug valves with Hastelloy® body and trim.
- These Lift Plug valves now have many years of successful service behind them.



Delayed Coking

Coking systems require simplicity and crevice-free design

- If the valve is open, or in a particular switching position, the plug and the body form a smooth continuous contour, free of gaps and crevices.
- During operation the valve is flushed with steam to prevent solid entrapment between the plug and body. When the plug is seated, flushing automatically stops.
- The SchuF 3 line Coking Defence System (CDS- see P.6) can function without taking the plug out of the valve, or the valve out of the line.
- The IsoPlug valve may have a slightly higher initial acquisition cost than that of the ball valve. However, the costs of flushing, maintenance and repairs are significantly higher for ball valves.



Styrene Production

SchuF Lift-Plug valves recommended ahead of ceramic ball valves and wedgeplug valves

- An external licensor of styrene process technology oversaw a trial where an Incoloy SchuF Lift Plug valve was tested against existing wedge plug valves.
- The valve was required to handle steam and catalyst effluent at temperatures up to 900°C.
- The advantages of the Lift Plug valve over the wedge plug design became obvious:
 - Easier to actuate, even when closed for long periods, with no sticking.
 - Operator can see the position of the valve
 - Better sealing performance
 - Zero leakage to atmosphere
 - Safer and more reliable
- Lift Plug valves have subsequently been recommended by the licensor and have since been supplied to other licensees of the Styrene process technology.

Lift Plug Valves and Ball Valves Comparison Table

|  | Lift Plug | Ball Valve |  |
|---|---|--|---|
| | Simple rugged design, only two main parts | Complex design utilising many major parts | |
| | Plug seizing is almost impossible | Ball component can get stuck | |
| | Seals do not wear during operation | Seal wear occurs with every operation | |
| | Seat seals are load-free during rotation, but thrust is loaded by lowering the plug after the rotation, ensuring a perfect seal | Seals are exposed to the process while loaded, so quality of the seal cannot be improved by the actuator | |
| | Flushing only required during valve operation | High flushing requirements, high cost of ownership | |
| | Valve suffers no ill effects if flushing fails while in service | If flushing fails, maintenance and spare parts expensive | |
| | Uses two actuators for larger valves and/or more rugged service | A single much bigger actuator used in all cases | |
| | Low breakaway torque required to turn the valve | High breakaway torque and thus large motors required | |
| | Switching valves available with inlet from below, and either 3 or 4 outlets | Switching valves available with inlet from below and three outlets only | |
| | Top-or bottom-entry design permits inspection an easy maintenance without removal from the line | Inspection not always possible with a ball valve and therefore maintenance can be difficult | |
| | Maintenance rarely required, no parts required | Expensive spare parts (e.g. coated balls, or bellows) when repairs are necessary | |



Customer Enquiry Sheet

Part 1 – Your Company Information

| | |
|----------------|------------------|
| Name: _____ | Title: _____ |
| Company: _____ | Telephone: _____ |
| E-mail: _____ | Fax: _____ |

Part 2 – Your Order Information

General:

| | |
|--------------------------------|---------------------|
| Quantity: _____ | Application: _____ |
| Tag No.: _____ | Project Name: _____ |
| Process/Process Licence: _____ | Project No.: _____ |

Part 3 – Valve and Process Information

Valve Information:

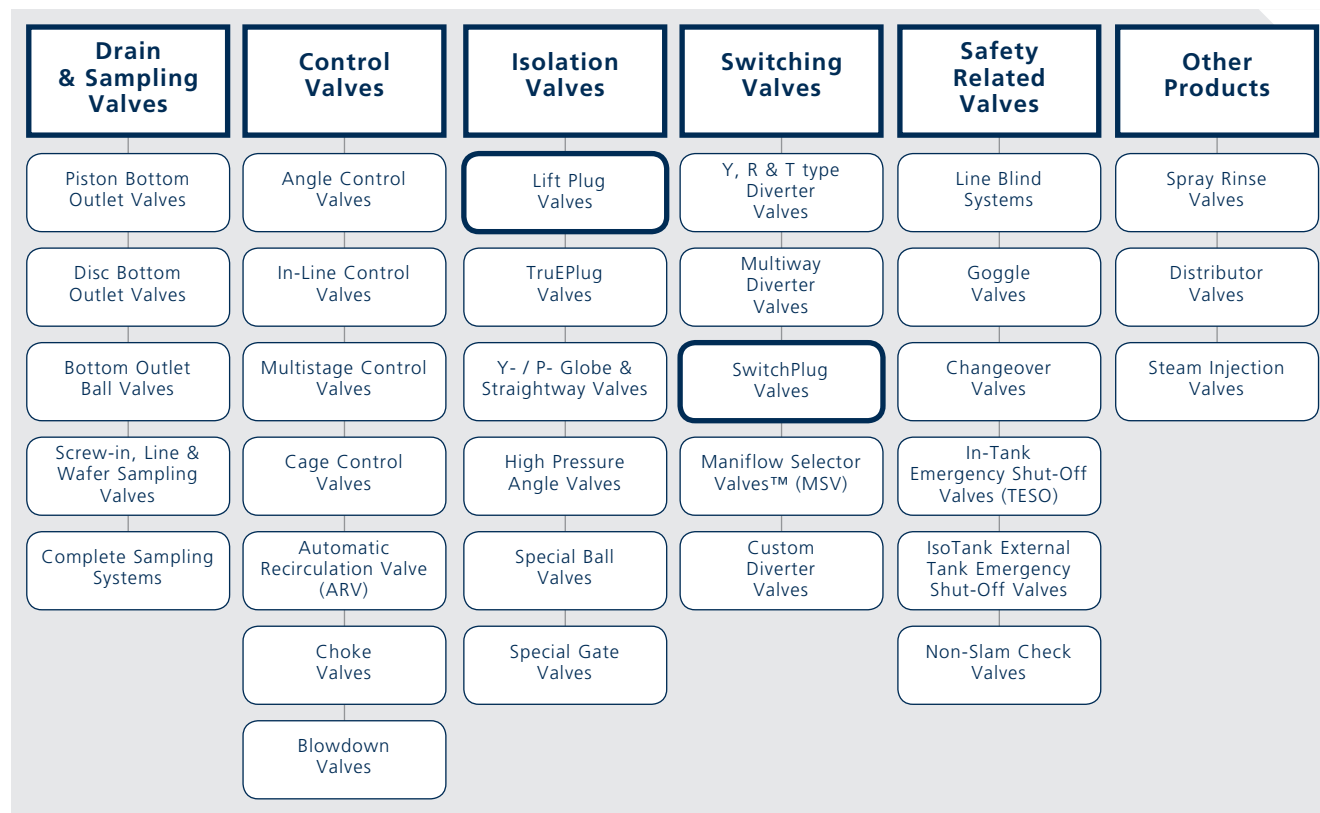
| | |
|---|---------------------------------------|
| Valve Type: Lift Plug <input type="checkbox"/> IsoPlug <input type="checkbox"/> SwitchPlug <input type="checkbox"/> | Valve Inlet Size (DN/Inch): _____ |
| Valve Pressure Rating: _____ | Valve Outlet(s) Size (DN/Inch): _____ |
| Valve Delta P: _____ | No. of Valve Inlets/Outlets: _____ |
| Inlet Flanged/Weld-End: _____ | Outlet Flanged/Weld-End: _____ |
| Outlet Flange Configuration: (i.e. 120°, 180°): _____ | Operating Pressure: _____ |
| Operating Temp.: _____ | Design Pressure: _____ |
| Design Temp.: _____ | Trim Material: _____ |
| Body Material: _____ | Fugitive Emissions/Clean Air: _____ |
| Medium: _____ | Firesafe Rating: _____ |
| Certificates Etc.: _____ | Hazard Class: _____ |
| Actuator Type: _____ | Air Supply Pressure: _____ |
| Air-Fail Position: _____ | Manual Override: _____ |

Part 4 – Further Notes/Topics/Info

Product Portfolio Overview

In over one hundred years, the SchuF Group has delivered more than one million valves to a wide variety of industries in over 50 countries worldwide. Headquartered near Frankfurt in Germany, the company has additional design and manufacturing centres in Italy, India, Ireland, UK and the

USA. The SchuF Group has sales and agent offices covering almost every country in the world. We manufacture valve products that control, isolate, divert, and sample liquids, gases, powders, and slurries. Our product range of engineered, customised valves includes:



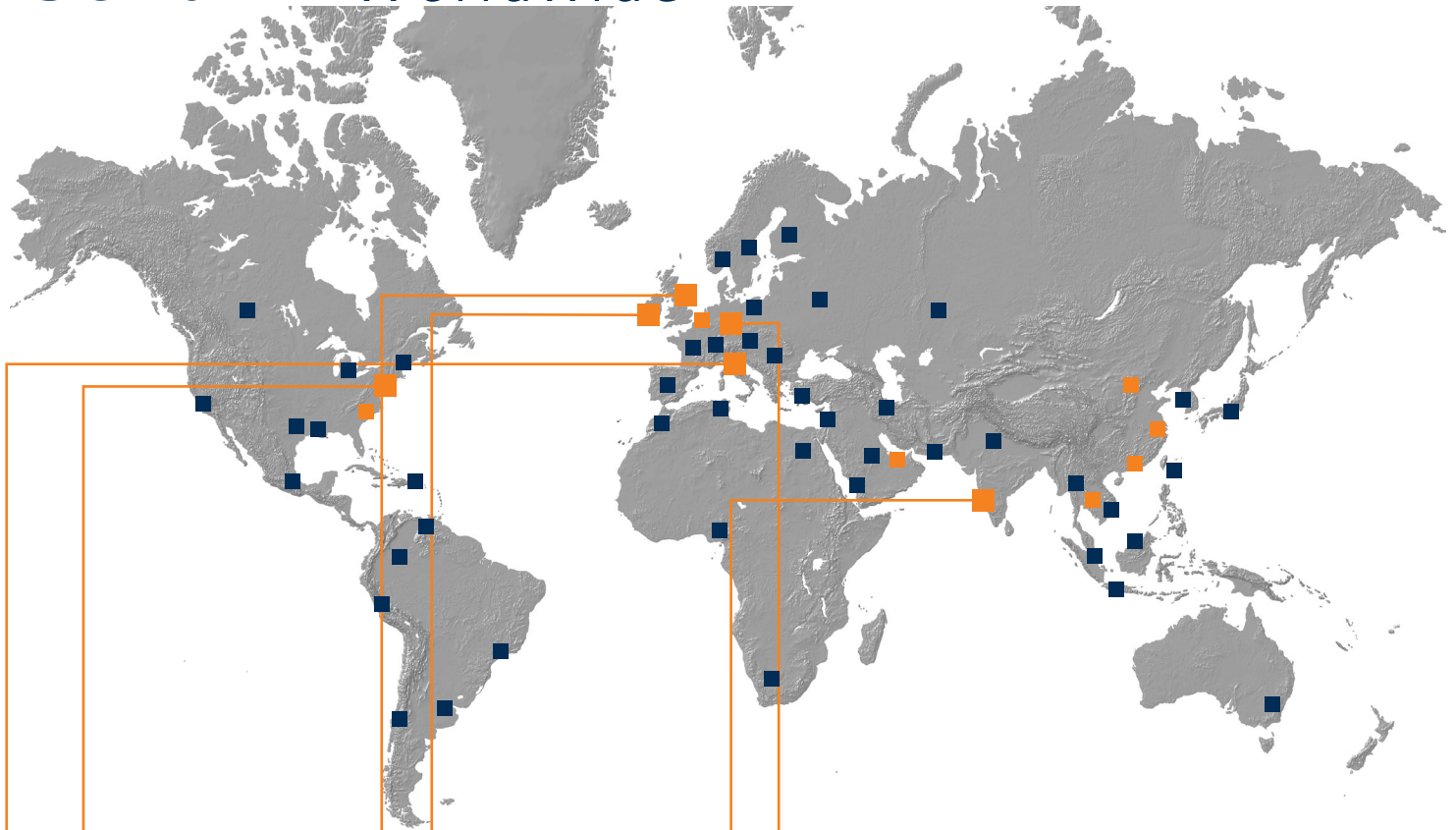
Lift Plug Valves Client List:

- | | |
|---------------------|--------------------------|
| ■ BASF | ■ JSC Tatneft |
| ■ BAYER | ■ Lanxess |
| ■ Bechtel | ■ Lurgi Zimmer |
| ■ Borealis | ■ Motiva |
| ■ BP | ■ CHS |
| ■ Celanese | ■ Nan Ya |
| ■ Chemtex | ■ OMV Petrom |
| ■ Eastman | ■ PetroCanada |
| ■ Fluor Daniel | ■ SABIC |
| ■ FORMOSA | ■ Shinkong Synth. Fibers |
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