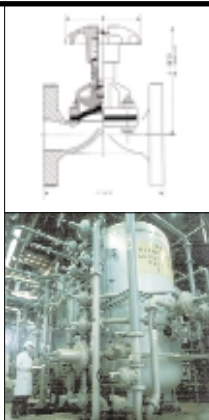


Saunders Industrial Diaphragm Valves



Saunders A Type Diaphragm Valve

Product Information

Weir type design available with a versatile and cost effective range of plastic and rubber linings* offering the optimum solution for customers needs in chemically demanding applications.

Size Range

DN8 – DN350 (DN400, 450 & 500 available as double weir options).

Pressure Range

Up to 16 bar

Temperature Range

-30° C to +175° C

Body

Cast iron, SG iron, cast steel, stainless steel and copper alloys.

Linings

Various rubbers, polypropylene (PP), ethylene tetrafluoroethylene (ETFE), perfluoroalkoxy (PFA), polytetrafluoroethylene (PTFE) and glass*.

Diaphragms

Various including PTFE rubber backed, EPM (a copolymer of ethylene and propylene monomers) fluoroelastomer, nitrile, natural rubber, polychloroprene and chlorosulphonated polyethylene.

Face to Face Dimensions

EN 558-1 Series 7 (EN & BS10 Flange)
EN 558-1 Series 1 (EN Flange)
MSS SP 88 (ANSI Flange)

End Connections

Flanged End Connections
BS10 Table D (also E)
EN 1092-1/EN 1092-2 PN16, PN10, PN6
ANSI 125/150
APS 3.1.4 (MOD)
Screwed End Connections
BS21 Rp
BS21 Rc
API/NPT

Approvals

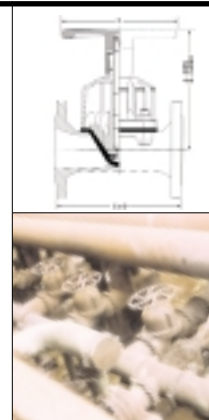
BS EN ISO 9001, TUV AD – Merkblatt HPO, Lloyds Register, Bureau Veritas, Det Norske Veritas, American Bureau of Shipping, Water Research Council. Pressure Equipment Directive (97/23/EC).

Mode of Operation

Handwheel and actuated. Refer to Saunders Linear Actuation range on pages 8 & 9.

Typical Applications

Used throughout the chemical processing industry particularly for water treatment, metal treatment & processing, pulp and paper, chlor-alkali, effluent treatment, potable water, toxic fluids and all chemicals (within the temperature and pressure range).



Saunders KB Type Diaphragm Valve

Product Information

Straight through design with a full range of rubber linings* to handle abrasives and slurries. Offers an uninterrupted flow path critical for valve longevity.

Size Range

DN15 – DN350

Pressure Range

Up to 10 bar

Temperature Range

-30° C to +120° C

Body

Cast iron, SG iron, cast steel and stainless steel.

Linings

Various rubbers including natural, polychloroprene, butyl and hard ebonite. Glass lining*.

Diaphragms

Various including ethylene propylene co-polymer (EPM), fluoroelastomer, nitrile, polychloroprene and isobutylene isoprene.

Face to Face Dimensions

EN 558-1 Series 7 (EN & BS10 Flange)
EN 558-1 Series 1 (EN Flange)
MSS SP 88 (ANSI Flange)

End Connections

Flanged End Connections
BS10 Table D (also E)
EN 1092-1/EN 1092-2 PN16, PN10, PN6
ANSI 125/150
APS 3.1.4 (MOD)
Screwed End Connections
BS21 Rp
BS21 Rc
API/NPT

Approvals

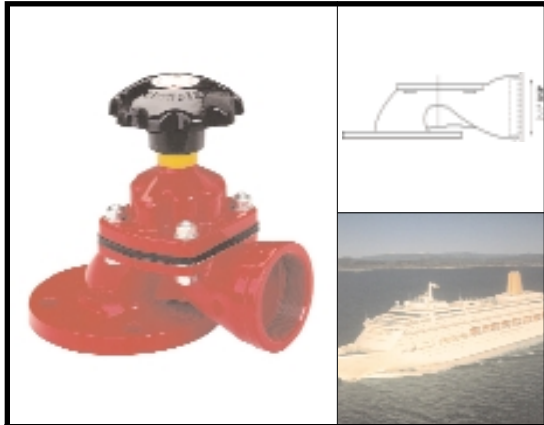
BS EN ISO 9001, TUV AD – Merkblatt HPO, Lloyds Register, Bureau Veritas, Det Norske Veritas, American Bureau of Shipping, Water Research Council. Pressure Equipment Directive (97/23/EC).

Mode of Operation

Handwheel and actuated. Refer to the Saunders ES/ EV Actuator on page 9.

Typical Applications

Used throughout the chemical processing industry particularly for handling inert and corrosive abrasive media or slurries. Extensively used within the mining, minerals processing & fertiliser production industries.



Saunders WFB Type Valve

Product Information

Based on the weir design, the WFB valve offers a long term service and trouble free operation when demanded during critical periods to fight and extinguish fires. Operates even after being left idle for long periods of time.

Size Range

DN40 – DN65

Pressure Range

Up to 15 bar

Temperature Range

-30° C to +175° C

Body

Gunmetal and SG iron
Note various models available*

Handwheel

Gunmetal and SG iron

Diaphragms

Specially designed grade 286 "Fire" diaphragm and 233 CV grade (for tank cleaning)

End Connections (Inlet/Outlet Body Options)

Screwed

- BS21 Rp
- ANFT* 7.5 TPI

* American National Fire Thread, Male or Female

Flanged

- BS10 Table D & E (Gunmetal and SG Iron)
- BS 4504 PN16 DIN 86021 ND16 & ANSI B16.24 Class 150 (Gunmetal)
- EN1092-2 PN16 & ANSI B16.42 Class 150 (SG Iron)

Approvals

BS EN ISO 9001, Det Norske Veritas, MSA, Lloyd Register of Shipping, Bureau Veritas, Registro Italian Naval (Rina) American Bureau of Shipping.

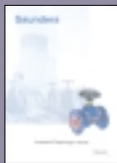
Mode of Operation

Handwheel operated

Typical Applications

Seawater, waste effluent water and fire mains water. Used extensively on cruise liners and car ferries.

Notes



// We specified Saunders WFB 65mm nominal bore fire-mains hydrant valves for our ferries and cruise liners. Significant factors behind this choice are excellent reliability and the low maintenance costs. //

**P&O Cruises
(UK) Ltd**

Saunders Aseptic Diaphragm Valves



Standard 2 way AFP Diaphragm valve (forging or investment cast)

Product Information

Available in a complete range of body finishes and end connections to match system design requirements. Note – Saunders 2 way AFP forging range fully meets ASME BPE standards.

Size Range

DN8 – DN150

Pressure Range

Up to 16 bar

Temperature Range

-30° C to +175° C

Body

Stainless steel 316L/1.4435
Special alloys available on request

Surface Finish

Complete range of mechanically polished and electropolished options. These include Vacublast (1.6 Ra µm), Satin (0.5 Ra µm) and Mirror (0.25 Ra µm).

Diaphragms

Full range of diaphragm selections engineered to meet the exacting demands of the biopharm industry. All formulated in-house from FDA conforming materials and tested and certified to USP Classes V & VI.

Uniquely, Crane Process Flow Technologies Ltd are able to offer batch traceability and certify that all diaphragm grades are ADCF* free.

End Connections

Full range of weld and mechanical end connections to meet International standards.

Quality Statements and Approvals

BS EN ISO 9001, FDA, cGMP, USP & 3A

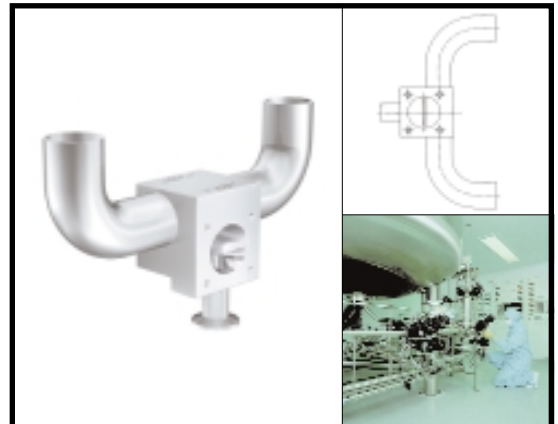
Mode of Operation

Modular range of polymer and stainless steel manual bonnet options. Refer to the Saunders EC & ECX Actuator range on page 8.

Typical Applications

Complete application coverage within the biopharmaceutical environment including water for injection (WFI) systems, process media and general Cleaning In Place (CIP) and Steam in Place (SIP) requirements.

* Animal Derivative Component Free



Standard Machined Block and forged body Zero Dead Leg Range

Product Information

Essential in the elimination of system dead leg, this range of product eases installation and validation concerns. All products either machined barstock or forging and include Zero Dead Leg T pattern valves (ZDT), Close Coupled Branch valves (CCBV), Tank Bottom, Point of Use Options, and Multiport Diverter valves.

Size Range

DN8 – DN150

Pressure Range

Up to 16 bar

Temperature Range

-30° C to +175° C

Body

Stainless Steel 316L/1.4435
Special alloys available on request

Surface Finish

Complete range of mechanically polished and electropolished options. These include Vacublast (1.6 Ra µm), Satin (0.5 Ra µm) and Mirror (0.25 Ra µm).

Diaphragms

Full range of diaphragm selections engineered to meet the exacting demands of the biopharm industry. All formulated in-house from FDA conforming materials and tested and certified to USP Classes V & VI.

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End Connections

Full range of weld and mechanical end connections to meet International standards.

Quality Statements and Approvals

BS EN ISO 9001, FDA, cGMP, USP & 3A

Mode of Operation

Modular range of polymer and stainless steel manual bonnet options. Refer to the Saunders EC Actuator range on page 8.

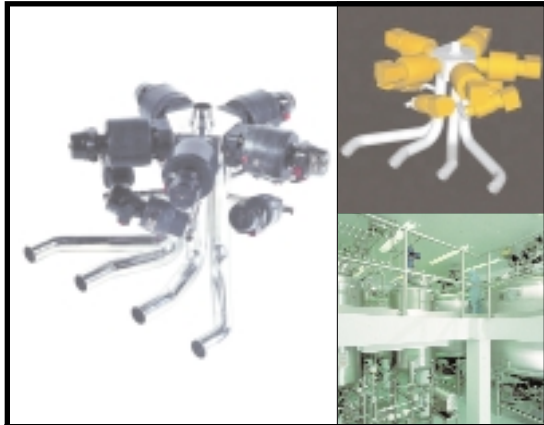
Typical Applications

Complete application coverage within the biopharmaceutical Market including water for injection system sampling/injection points, flow diversion requirements and product transfer.



// Boehringer Ingelheim have utilized the full range of Saunders Aseptic diaphragm valves, actuators and accessories for many years. Particularly impressive is the level of technical advice, sales and after sales support which we have been provided with. It's the entire service package in addition to the performance of the product range, which makes Saunders Aseptic diaphragm valves our first choice.

//
Senior Project and Qualification Engineer
Boehringer Ingelheim UK



Customised Fabrication*

Including Tandem valves, Zero Dead Leg L Pattern valves and manifold/cluster arrangements.

Product Information

Valve orientations are configured to minimise deadleg, reduce space envelope and facilitate ease of installation.

Configuration of optimum process fabrication and supply of fully tested assembled units simplify installation and validation concerns.

Size Range

DN8 – DN150

Pressure Range

Up to 16 bar

Temperature Range

-30° C to +175° C

Body

Stainless Steel 316L/1.4435
Special alloys available on request

Surface Finish

Complete range of mechanically polished and electropolished options. These include Vacublast (1.6 Ra µm), Satin (0.5 Ra µm) and Mirror (0.25 Ra µm).

Diaphragms

Full range of diaphragm selections engineered to meet the exacting demands of the biopharm industry. All formulated In-house from FDA conforming materials and tested and certified to USP Classes V & VI.

Uniquely, Crane Process Flow Technologies Ltd are able to offer full batch traceability and certify that all diaphragm grades are ADCF free.

End Connections

Full range of weld and mechanical end connections to meet international standards.

Quality Statements and Approvals

BS EN ISO 9001, FDA, cGMP, USP & 3A

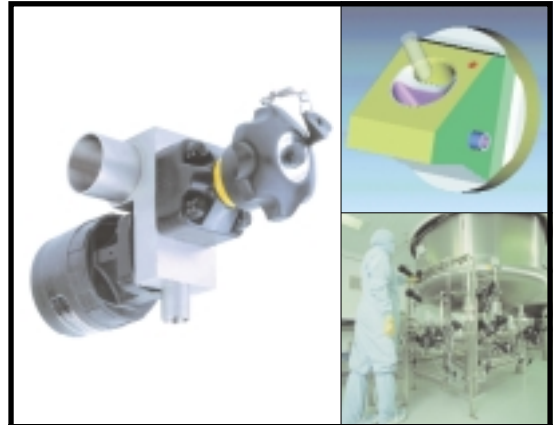
Mode of Operation

Modular range of polymer and stainless steel manual bonnet options. Refer to the Saunders EC Actuator range on page 8.

Typical Applications

Complete application coverage including water systems, CIP manifolds and condensate drains.

* Typical products utilised in manifold arrangements include standard AFP forgings, Close coupled branch Valves (CCBV), Zero dead leg Valves "L" pattern (ZDL), Zero dead leg "T" pattern (ZDT) and Diverter options.



Bio-Block Customised Design Options

Product Information

In recognition of increasingly stringent and demanding process needs, Crane Process Flow Technologies Ltd. have developed a unique range of Bio-Block machined valve design solutions.

These innovative design solutions are developed utilising advanced CAE facilities. These enable our design engineers to convert a customer's application requirement from concept to reality, quickly and cost effectively.

Advantages over traditional design include reduced wetted area/deadleg, no internal fabrication welds and enhanced product integrity.

Size Range

DN8 – DN150
(For DN150 consult us for more information)

Pressure Range

Up to 16 bar

Temperature Range

-30° C to +175° C

Body

Stainless steel 316L/1.4435.
Special alloys available on request

Surface Finishes

Complete range of mechanically polished and electropolished options. These include Vacublast (1.6 Ra µm), Satin (0.5 Ra µm) and Mirror (0.25 Ra µm).

Diaphragms

Full range of diaphragm selections engineered to meet the exacting demands of the biopharm industry. All formulated in-house from FDA conforming materials and tested and certified to USP Classes V & VI.

Uniquely, Crane Process Flow Technologies Ltd are able to offer full batch traceability and certify that all diaphragm grades are ADCF free.

End Connections

Full range of weld and mechanical end connections to meet international standards.

Quality Statements and Approvals

BS EN ISO 9001, FDA, cGMP, USP & 3A

Mode of Operation

Modular range of polymer and stainless steel manual bonnet options. Refer to the Saunders EC Actuator range on page 8.

Typical Applications

Complete application coverage within the biopharmaceutical environment including water for injection systems, sterile barrier requirements and chromatography.



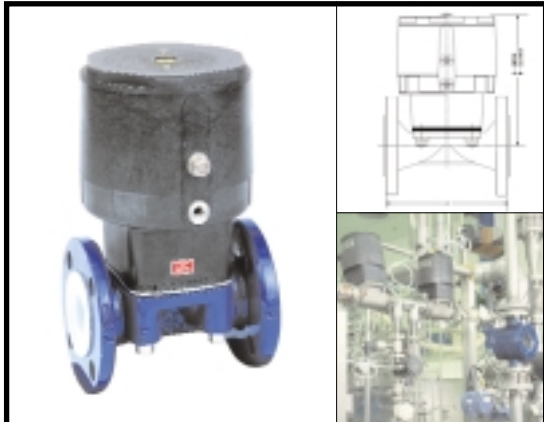
“ I've had over 30 years of user experience within the Pharmaceutical Industry and have never seen such a seamless and painless ability of a company to meet our needs. Saunders put together a project team and they all communicated quickly and accurately through Sales, Engineering and Manufacturing to keep us and our piping contractor informed at all stages. ”

Process Engineer, Abbott Laboratories, USA

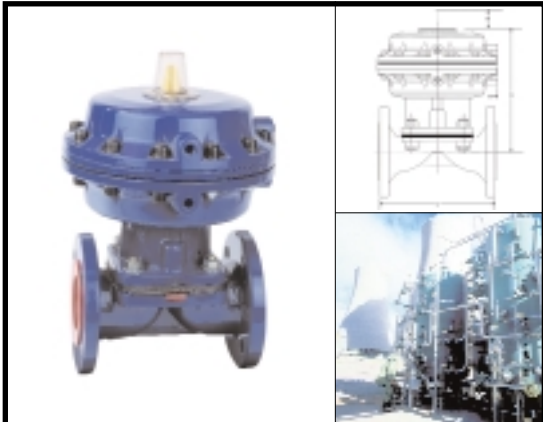
“ We recently placed an order for a significant quantity of Saunders standard, fabricated and custom Bio-Block style valves with actuators and accessories. Product was delivered on time, and in some cases ahead of schedule. ABEC will continue to specify Saunders valves for our equipment. ”

Senior Project Manager, ABEC Inc

Saunders Linear Actuators and Accessories



Saunders EC Actuator



Saunders ECX Actuator

Product Information

Compact, lightweight & robust piston operated linear actuator.

Size Range

DN8 – DN50

Temperature Range

-10° C to +150° C (external environment)

Body

Injection moulded PES (polyethersulphone) with high chemical resistance.

Options

Fail safe Close (2, 4 & 6 bar spring options); Fail Safe Open and Double Acting Versions.

Additional Information

Stainless steel version also available for biopharmaceutical applications.

Accessories

Switchboxes, solenoid valve and positioners available.

Approvals

BS EN ISO 9001, Conforms to FDA requirements.

Typical Applications

Very successfully utilised in the biopharmaceutical market including those duties including sterilisation by steam, dry heat or chemical methods. Used where space is a premium.



Product Information

Providing an extension to the Saunders EC range, the ECX gives excellent chemical resistance whilst still providing a compact solution.

Size Range

DN 65 – DN150

Temperature Range

-20° C to +85° C (external environment)

Body

Silicon Aluminium

Options

Available as failsafe spring close*, failsafe spring open and double acting.

*Various spring packs available.

Suitability

Saunders weir type A, and the Saunders aseptic diaphragm valves range.

Accessories

Solenoid valve, switch box, positioners & air filter.

Typical Applications

Well suited to the chemical and biopharmaceutical Industry.





Saunders ES & EV Actuator

Product Information

Suitable for the full range of Saunders diaphragm valves, the ES and EV linear actuator range offers a robust and durable solution. Both renowned for their reliability, longevity and low cost of ownership.

Size Range

DN 15 – DN250

Temperature Range

-20° C to +85° C (external environment)

Body

Silicon Aluminium

Options

Available as failsafe spring close, failsafe spring open and double acting.

Approvals

BS EN ISO 9001

Suitability

Saunders weir type A, Saunders straight through type KB and the Saunders aseptic diaphragm valves range.

Accessories

Solenoid valve, switch box, positioners, air filter and handwheel (EV – handwheel not available).

Typical Applications

Extensively used with Saunders weir type A diaphragm valves and straight through type KB diaphragm valve. Applications include chemical processing, minerals and metal processing, pulp and paper & fertiliser production.



Actuator Accessories

Product Type: Module Switchbox

Product Information

Highly modular switchbox option is available for the EC (and Stainless Steel Compact SSC) and ECX actuator ranges.

Offers a wide range of V3 mechanical and proximity switches (I/S and EEXD options) with space for up to 4 switches, integral solenoid valve and AS-i interface.

Diaphragm valve suitability

Saunders weir type A, and the Saunders aseptic diaphragm valves range.

Actuator & Size Range

EC: DN8-50
ECX: DN65-150

Temperature Range

-25° C to +85° C

Enclosure Rating

IP67 (NEMA 6)

Product Type: Positioner

Product Information

Provides precise control of the flow through the valve. This long life corrosion resistant range suits a wide variety of applications with reliability and accuracy. Available as pneumatic electro-pneumatic intrinsically safe and explosion proof, together with a variety of feedback options. A digital option is also available.

Diaphragm Valve Suitability

Saunders weir type A, Saunders straight through type KB and the Saunders aseptic diaphragm valves range.

Actuator and Size Range

Saunders Actuator type ES size DN15-250
Saunders Actuator type EV size DN15-150

Product Type: 007 Switchbox

Product Information

Highly modular switchbox option is available for the ES and EV actuator range.

Offers a wide range of V3 mechanical and proximity switches (I/S and EEXD options) with space for up to 4 switches, integral solenoid valve and AS-i interface.

Diaphragm Valve Suitability

Saunders weir type A, Saunders straight through type KB and the Saunders aseptic diaphragm valves range.

Actuator and Size Range

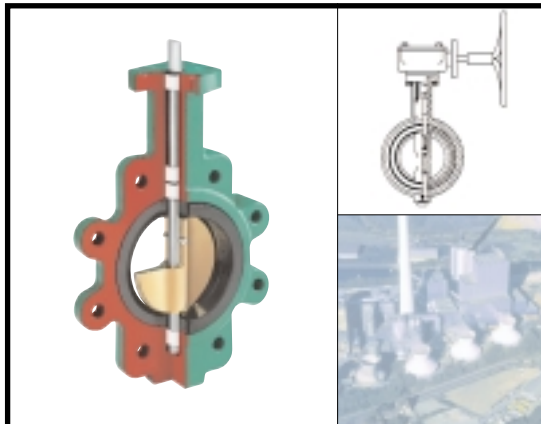
Saunders Actuator type ES size DN15-250
Saunders Actuator type EV size DN15-150

Enclosure Rating

IP67 (NEMA 6)



CENTERLINE and FLOWSEAL Butterfly Valves



CENTERLINE Butterfly Valve Series 200

Product Information

Concentric design butterfly valve with resilient seat. Integral seat support design.

Size Range

DN50 – DN1200 (2"-48")

Pressure Rating

PN10 & 16, Class 125 & 150. Operating Pressure up to 16 bar

Temperature Range

-20° C to +120° C

Body

Cast iron, ductile iron

Body Options

Wafer and lug body

Linings

EPDM, BUNA – N (nitrile), neoprene, EPDM food grade, hypalon, fluoroelastomer, high temperature fluoroelastomer, PTFE over BUNA – N (nitrile)

Disc

Aluminium bronze, stainless steel, ductile Iron, ductile iron (nickel plated), monel.

End Connections

Lugged DN50 – DN750 (2"-30"), Flanged DN900 (36") and above to PN 10, 16, ANSI Class 150.

Face to Face Dimensions

In accordance with EN558 – 1/EN558 – 2 Series 20

Approvals

BS EN ISO 9001

Mode of Operation

Lever, gear and actuated.
Refer to the REVO Actuator range on page 14.

Typical Applications

Utilised for cooling, waste, sea and hot water.
Also compressed air.



CENTERLINE Butterfly Valve Series VIA/RS

Product Information

Concentric design butterfly valve with resilient seat. Integral seat support design.

Size Range

DN40 – DN1200 (1.5"-48")

Pressure Rating

PN 6, 10 & 16
ANSI Class 125 & 150.
Operating pressure up to 16 bar

Temperature Range

-20° C to + 150° C

Body

Cast iron, ductile iron, carbon steel.

Body Options

Wafer, lug and double flange body
(Flange DN700 (28") and above only)

Linings

EPDM, BUNA-N (NBR), EPDM – H, fluoroelastomer, hypalon, neoprene.

Disc

Stainless steel, hastelloy, duplex, high density polyethylene, aluminium bronze, ductile iron nickel plated, rilsan (DN200 (8") and above).

End Connections

Flanged to PN 6, 10 & 16, ANSI Class 125 & 150.

Face to Face Dimensions

In accordance with EN558 – 1/EN558 – 2 Series 20

Approvals

ISO 9001, leak rate DIN 3230 Part 3 rate 1, /BS6755 part 1 rate A. Bubble tight shut-off ANSI Class VI.

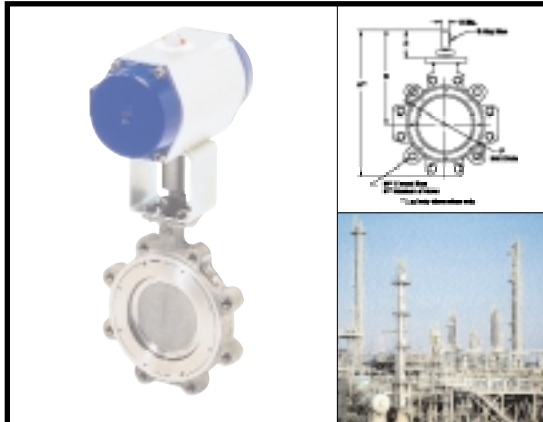
Mode of Operation

Lever, gear and actuated.
Refer to the REVO Actuator range on page 14.

Typical Applications

Sugar processing, flue gas desulphurisation, hot and drinking water, paper pulp processing, gas generation and distribution.





FLOWSEAL High Performance Butterfly Valve Series HP

Product Information

Bi-directional double eccentric design with patented soft seat.
Three variants available – soft seated, metal seated and "Fireflow" seated.

Size Range

DN50 – DN1200 (2"-48")

Pressure Rating

PN 16, 25, 40
ANSI Class 150, 300 & 600

Temperature Range

-70° C to +250° C
-70° C to +480° C (metal seat)

Body

Carbon steel, stainless steel*.

Body Options

Wafer and lug body

Seat

Tetrafluoroethylene (TFE), reinforced TFE (RTFE) & metal (fire flow design).

Disc

Stainless steel, nickel-plated stainless steel, aluminium bronze*

Face to Face Dimensions

In accordance with API 609-Table 2, EN 558-1, Series 25**

Approvals & Standards

BS EN ISO 9001, BS6755 Part 1 leak rate A, ANSI/FCI 70-2 class VI, API 607 4th edition (soft seat and fireflow)
Metal seat ANSI FCI 70-2 Class IV shutoff

Mode of Operation

Gear and actuated.
Refer to the REVO Actuator range on page 14.

Typical Applications

Service duties up to 200° C, air and gas systems, steam up to 5 bar and processes where elastomers are insufficient

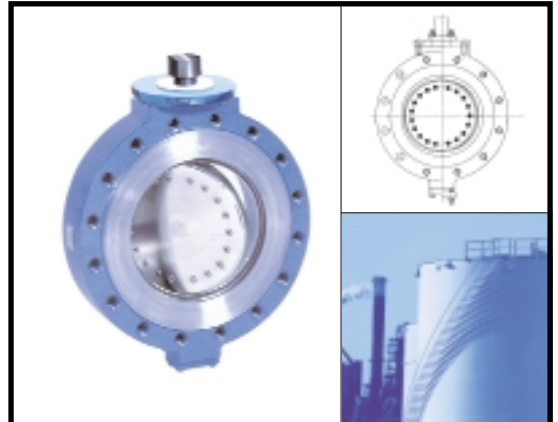
* Note other materials available on request

** On request



“ We recently supplied two 16" Flowseal Butterfly valves to a key Steel manufacturer in the UK. The valves are required to facilitate emergency shut down even in the event of a critical failure. We offered Flowseal Butterfly valves for several reasons, but particularly because both weight and space were at a premium. Lead-time was also critical and Crane Process Flow Technologies Ltd was able to deliver within a very short lead-time. ”

**Managing Director
UK Process
Valves Ltd.**



FLOWSEAL Triple Offset Butterfly Valves Series VIA/MS

Product Information

Bi-directional triple eccentric metal seated design. Gas Tight.

Size Range

DN80-600 (3"-24")

Pressure Rating

PN 10, 16, 25, 40
ANSI Class 150, 300

Operating Pressure

Up to 40 bar

Temperature Range

-196° C to +550° C
(subject to materials chosen)

Body

Carbon steel, stainless steel*.

Body Options

Double flange and lug body

Seat

Stainless steel, stellite.

Disc

Carbon steel, stainless steel.

Sealing

Stainless steel/graphite laminate

Face to Face Dimensions

In accordance with EN558-1, Series 13 & 16, API 609-Table 2, ISO 5752-Table 4**

Approvals

BS EN ISO 9001, BS 6755 Part 1 leak rate A, ANSI/FCI 70-2 class VI, API 607 4th edition

Mode of Operation

Gear and actuated.
Refer to the REVO Actuator range on page 14.

Typical Applications

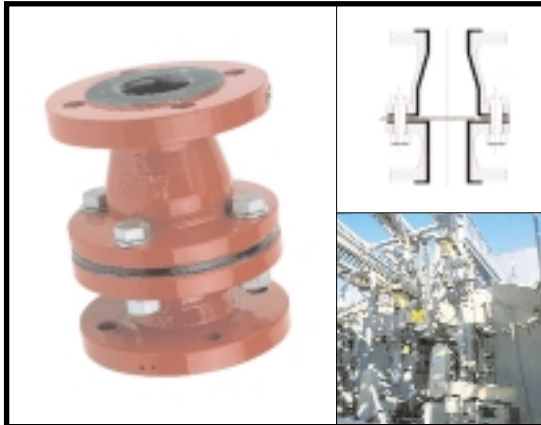
Superheated steam, hot water, petrochemicals, hot gas applications, liquid petroleum gas systems & cryogenic applications. Used within the power & steel industry.

* Note other materials available on request

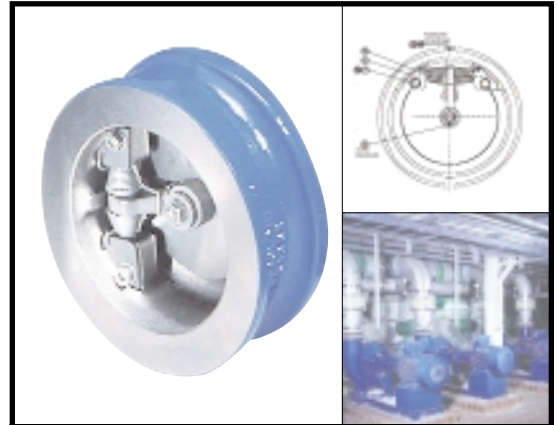
** On request



Noz-chek, Duo-chek II, SINGLE-CHEK I and Saunders Check Valves



Saunders NX Non Return Valve



SINGLE-CHEK I Series VIA/CV

Product Information

Simple non return flap design for low pressures and vacuum duties.

Size Range

DN25 – DN150

Pressure Range

Up to 7 bar, suitable for vacuum duties. Requires 0.3 bar back pressure.

Temperature Range

-10° C to +150° C

Body

Cast iron, SG iron.

Linings

Hard rubber

Disc Material

Rubber (metal reinforced)

End Connections

Flanged End Connections
BS10 Table D (also E & F)
EN 1092-2 PN16, PN10, PN6
ANSI 125/150

Approvals

BS EN ISO 9001

Typical Applications

Used throughout the chemical processing industry particularly for water treatment, power generation and water and waste treatment plants.

Product Information

One-piece, self-centering disc design. Soft and metal seated versions available.

Size Range

DN50 – DN500

Pressure Range

Operating pressure up to 40 bar

Temperature Range

-10° C to +300° C

Body

Cast iron, cast steel and stainless steel.

Seat

Nickel plated steel, stainless steel.

Disc Material

Cast steel, stainless steel.

Sealing

EPDM, butyl, PTFE, fluoroelastomer, metal.

Flange ratings

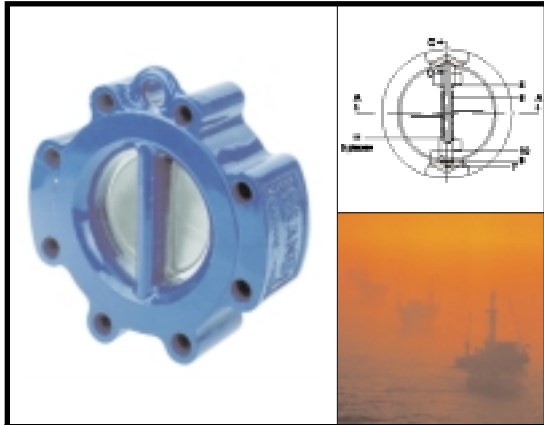
PN10, 16, 25, 40
ANSI Class 150

Approvals

BS EN ISO 9001

Typical Applications

Power, water and waste treatment plants. Also compressed air pipe systems, crude oil application and refinery systems.



Duo-Chek II High Performance Check Valve

Product Information

Dual Plate "Mission" design check valve. Available in a wide range of sizes, pressure classes and materials to meet the most demanding of applications.

Size Range

DN50 – DN1800

Pressure Classes

ANSI 125-4500
API 6A & 6D
DIN, JIS, BS, AS and ISO standards also available.

Temperature Range

-40° C to +200° C for rubber seated and -200° C to +523° C for metal seated

Body

SG iron, WCB/LCC cast steel, 316 stainless steel. All alloys.

Seat

EPDM, nitrile, neoprene, viton, fluoroelastomer. Metal seats also available.

End Connections

Raised face, plain face, ring joint, weld end and hub end.

Body Styles

Wafer, lug, double flanged and extended body styles. All the above valve styles are also available in retainerless design.

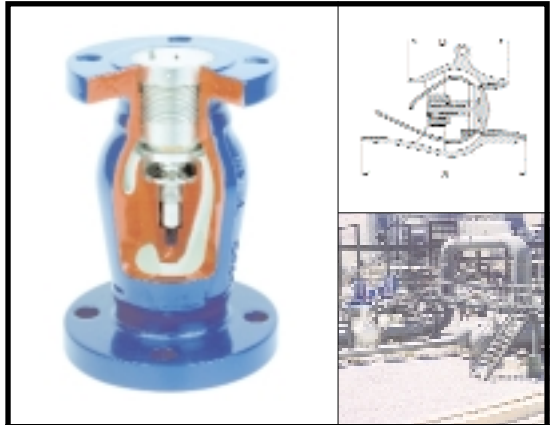
Approvals & Standards

API 594, API 598, ANSI B16.34, API 6D, API 6A, BS EN ISO 9001, Stoomwezen & TUV.

Typical Applications

Typically used for liquid and gas fluid applications within petroleum refining, petrochemicals processing, chemical processing, oil and gas production, pulp and paper, power generation, steel/primary metal processing, marine water and wastewater.

* For further information, enquiries, technical support or order placement please contact
Crane Stockham Valve Ltd, 6 Alexander Road, Cregagh, Belfast, BT6 9HJ.
Telephone 02890 704222
Telefax 02890 401582
www.cranestockham.co.uk



Noz-Chek High Performance Non-Slam Check Valve

Product Information

Nozzle type check valve specifically designed for critical applications including fast reversing systems where back flow is a concern. Minimises water hammer, chatter and pressure drop.

Size Range

DN50 – DN1500

Pressure Ratings

ANSI 150-4500
API 6D
API 6A

Temperature Range

-40° C to +200° C for rubber seated and -200° C to +523° C for metal seated

Body

Ductile iron, WCB/LCC carbon steels, 316 stainless steel, duplex stainless steels and all alloys.

Seats

EPDM, nitrile, neoprene & fluoroelastomer. Metal seats also available.

End Connections

Flanged (raised face/plain face/ring joint)
Weld end and hub end.

Body Styles

Standard pattern or short pattern

Approvals & Standards

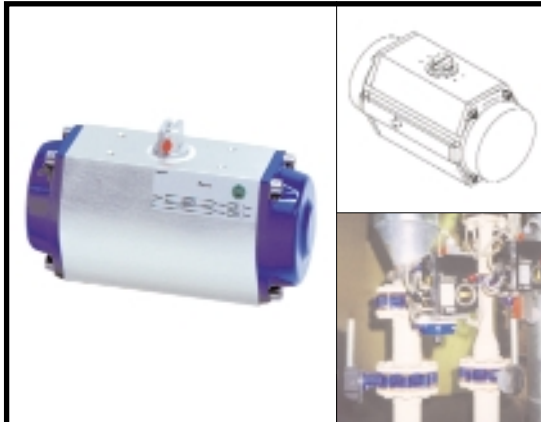
API 594, API 598, ANSI B16.34, API 6D, API 6A, BS EN ISO 9001, Stoomwezen & TUV.

Typical Applications

Typically utilised for gas transmission, power generation, petro-chemical/chemical processing, hydrocarbon processing and water transmission.

* For further information, enquiries, technical support or order placement please contact
Crane Stockham Valve Ltd, 6 Alexander Road, Cregagh, Belfast, BT6 9HJ.
Telephone 02890 704222
Telefax 02890 401582
www.cranestockham.co.uk





REVO Pneumatic Quarter Turn Actuator Series R

Product Information

The range includes a rack and pinion quarter turn actuator and scotch yoke design.

Torque Ranges

6 – 10,000 Nm (rack and pinion)
Up to 500,000 Nm (scotch yoke)

Applications

Three piece ball, other ball, butterfly and plug valves DN8 mm (1/4") and above.

Options

Single acting and double acting

Temperature Range

-30° C to +80° C (standard)

Operating Air Pressure

Max 10 bar

Housing material

Aluminium, anodised.

Shaft

Pressure balanced anti blow out shaft and bearings

Rotation

Clockwise (standard)

Accessories

Namur mounted limit switches, solenoid valves and positioners all available.

Approvals

BS EN ISO 9001, Connecting flange of actuator acc. to ISO 5211, draft February 1991.
Actuator connection with square acc to EIN 3337.

Mounting

To ISO 5211

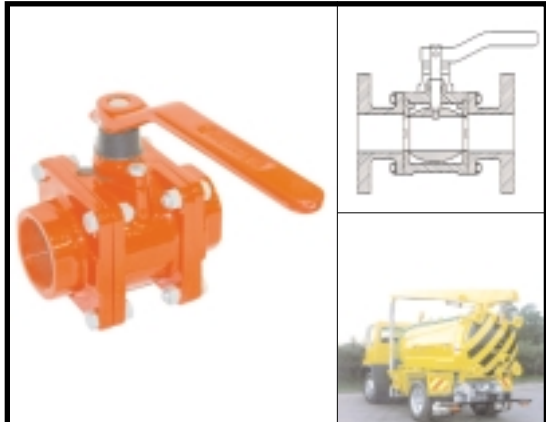
Applications

Utilised with the CENTERLINE and FLOWSEAL range of butterfly valves in the petrochemical, sugar, pulp and paper, water treatment, steel and chemical industry. Also food and beverage Industry.

Notes

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Saunders M Type Ball Valve

Product Information

Full bore 2 way ball valve, 3-piece design. Center valve body can also be utilised with customer bespoke flanges.

Size Range

DN15 – DN100

Pressure Rating

PN16, 10

Temperature Range

-30° C to 220° C

Body Housing

Cast iron, stainless steel.

Ball

Nylon coated, stainless steel & cast iron

Seats & Seals

Nitrile & PTFE available

Face to Face Dimensions

EN558-1 Series 1 and Series 7

End Connections

Flanged

BS10 Table D, E & F
EN1092-1/EN1092-2 PN16,10
ANSI Class 125/150

Female Screwed

BS21Rp

Approvals

BS EN ISO 9001

Ancillaries

Lever operated and actuated version available. Refer to the REVO Actuator range on page 14.

Typical Applications

Well suited for gases, liquids, powders and viscous media within the processing industry. Used extensively on road and railway tankers.

Notes



CRANE Cast Steel Valves



Cast Steel Gate Valve

Product Information

Crane cast steel gate valves offer the ultimate in dependable service wherever minimum pressure drop is important.

Gate valve castings are manufactured in Carbon Steel to ASTM A216 grade WCB. Disc faces have a 13% chrome overlay, seat rings are hardfaced (stellite) and are welded in the valve body. Gate valves feature flexible wedge discs. All valves are 100% pressure tested according to API 598 requirements and are provided with a test certificate.

Size Range

2" – 24", DN 50 – DN 600

Pressure/Temperature Ratings

ANSI Class 150 or Class 300.

Body

Carbon Steel A216 WCB

Features

Flexible Wedge

Compensates for deformation of body due to pipe stresses. Will not stick when the valve is closed hot and allowed to cool.

Welded-in Seat Ring

Seat ring is seal welded to eliminate leak path.

Testing and acceptance

To API 598 and API RP591

Fugitive Emissions

Less than 100ppm with standard requirements.

End Connections

Flanged ANSI Class 150 or 300 to B16.5.

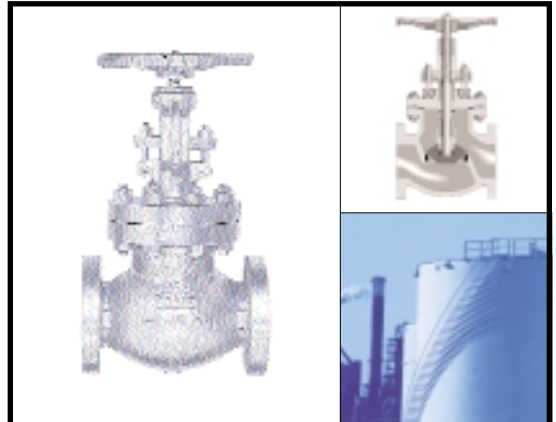
Approvals

Steel Valves – ANSI B16.34
 Face to Face/End to End – ANSI B16.10/EN 558-2
 Flange Dimensions – ANSI B16.5
 Basic Design – API 600
 Testing – API 598
 Acceptance – API RP591

Typical Applications

These are standard specification cast steel valves that are suitable for most general industrial applications where corrosion and oxidation are not factors.

* For further information, enquiries, technical support or order placement please contact: Crane Fluid Systems, Nacton Road, Ipswich, Suffolk, IP3 9QH. Telephone 01473 277400 Fax 01473 277411 Email enquiries@cranefs.com www.cranefs.com



Cast Steel Globe Valve

Product Information

Crane globe valves are highly efficient for services requiring frequent operation and throttling when pressure drop across the valve is about 20% of inlet pressure.

Globe valve castings are manufactured in Carbon Steel to ASTM A216 grade WCB. Disc faces have a 13% chrome overlay, seat rings are hardfaced (stellite) and are welded in the valve body. All valves are 100% pressure tested according to API 598 requirements and are provided with a test certificate.

Size Range

2" – 12", DN 50 – DN 300

Pressure/Temperature Ratings

ANSI Class 150 or Class 300.

Body

Carbon Steel A216 WCB

Features

Welded in seat ring to eliminate leak path. Fugitive emissions less than 100ppm with standard requirements.

End Connections

Flanged ANSI Class 150 or 300 to ANSI B16.5.

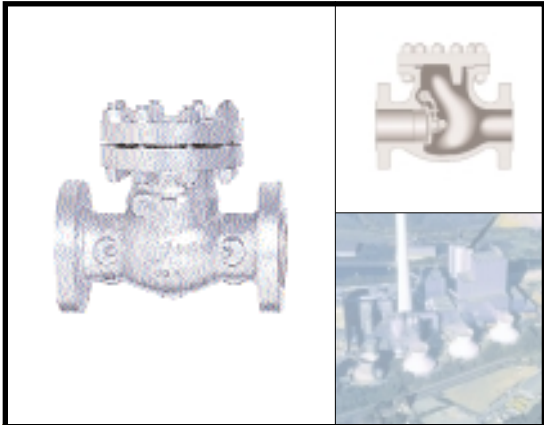
Approvals

Steel Valves: ANSI B16.34
 Face to Face/End to End: ANSI B16.10/EN 558-2
 Flange dimensions: ANSI B16.5
 Testing: API 598
 Acceptance: API RP591

Typical Applications

These are standard specification cast steel valves that are suitable for most general industrial applications where corrosion and oxidation are not factors.

* For further information, enquiries, technical support or order placement please contact: Crane Fluid Systems, Nacton Road, Ipswich, Suffolk, IP3 9QH. Telephone 01473 277400 Fax 01473 277411 Email enquiries@cranefs.com www.cranefs.com



Cast Steel Swing Check Valve

Product Information

Check valves are automatically actuated. They are opened and sustained in the open position by the force of velocity pressure, and closed by the force of gravity. Seating load and resultant tightness is dependent upon back pressure.

Check valve castings are manufactured in Carbon Steel to ASTM A216 grade WCB. Disc faces have a 13% chrome overlay, seat rings are hardfaced (stellite) and are welded in the valve body. All valves are 100% pressure tested according to API 598 requirements and are provided with a test certificate.

Size Range

2" – 24", DN 50 – DN 600

Pressure/Temperature Ratings

ANSI Class 150 or Class 300.

Body

Carbon Steel A216 WCB

Features

Welded in seat ring to eliminate leak path.

End Connections

Flanged ANSI Class 150 or 300 to ANSI B16.5.

Approvals

Steel valves: ANSI B16.34
 Face to face/end to end: ANSI B16.10/EN 558-2
 Flange dimensions: ANSI B16.5
 Testing API 598
 Acceptance API RP591

Typical Applications

These are standard specification cast steel valves that are suitable for most general industrial applications where corrosion and oxidation are not factors.

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Notes

Grid area for notes.

