Blackhall
valvologists®

Our Company

Blackhall Engineering

1910 100 YEARS 2010

Larner-Johnson® Valve
using the force of nature

Blackhall Since 1965 Taylor Since 1904 Shaw Since 1876

The Blackhall Enigineering Group

The origins of the Group originate in 1965 with the founding of Blackhall Engineering in Brighouse, England.

The Company quickly established a reputation for its commitment to design and manufacture of special purpose valves to customers exact requirements.

This was further enhanced in 2007 with the acquisition of Taylorshaw Valves. This added both the Taylor and Shaw Product Range of valves with over 100 years of know-how in numerous industries all over the world.

With this broad base of knowledge and experience particularly within the Water, Power, Oil, Gas and Cryogenic industries, Blackhall is ideally placed to apply its innovation and experience towards most valve requirements.

Company Values

Trust

Honesty

Teamwork

Openness

Improvement

Professionalism

An Introduction Into our Brands

Taylor
Since 1904

Taylorshaw are leaders in the design and manufacture of both high and low pressure steam valves, boiler mountings and specialty accessories with an ever-widening customer base.

Our product range is manufactured in bronze, cast iron, cast and forged carbon and alloy steels, with over 500 standard products plus adaption options.

- Parallel Slide Gate Valves
- Globe Valves
- Check Valves & Globe Stop Valves
- Boiler Mountings & Fittings
- Miscellaneous Valves and Equipment

Shaw
Since 1876

Shaw Valves is a global supplier for the world's most demanding valve applications. Our products significantly contribute to the safe handling of hazardous chemicals and the reduction of environmental pollution.

The unique Bellows Sealed, Packed Gland Globe and Control Valves range in size 1/2" through to 16" and are suitable for:

- Chlorine (C12)
- Anhydrous Hydrogen Chloride (ANCI)
- Phosgene (CoC12)
- Anhydrous Hydrogen Fluoride (AHF)
- Hydrogen Fluoride Alkylate (HF - Alky) and many other dangerous fluids.

Shaw Valves are Euro Chlor Approved for Dry and Liquid chlorine service.

Products also meet all the relevant requirements of the Chlorine Institute.

Larner-johnson®
Since 1910

The Larner - Johnson® valve was originally developed for use on hydro-electric power plants in the USA where it pioneered the application of the needle valve principle to the problems of flow control in pipelines and conduits.

In 1989 Blackhall purchased the sole intellectual Worldwide rights to the Larner Johnson Brand. It's uses are mainly for the control of fluids, notably in the water supply field, where the pressure and control requirements bring its advantages into full play.

Industries Served

- Cryogenic
- Power Generation
- Water
- Offshore
- Process / Chemical
- Valve Refurbishment
- Steam
- Boiler Mountings

Our Commitment

Blackhall Engineering has an on-going commitment to design and manufacture special purpose valves to exact customer requirements.

The Company has gained a reputation for innovation, reliability and quality..

The future heralds an exciting time for us at Blackhall Engineering. With the expansion of our new facilities on 2011 the foundations have been laid to enable us to progress with our development programmes.

Key among these will be new products to suit specific applications within the field of cryogenics and fluid control.

Our Company

Our workshop facilities, located in West Yorkshire, has the capability of handling large shutdowns with fast turn-around times to suit customer requirements.

Our workshop facilities include:

- Full Cryogenic clean room and degreasing plant.
- Flat lapping equipment.
- Pneumatic testing up to 3.000 psi.
- Full inspection facilities, including a coordinate-measuring machine.

A total of 30,000 square feet of manufacturing and refurbishment also includes:

- Hydraulic testing up to 10.000psi
- 15 ton overhead crane.
- 10 ton overhead crane.

Blackhall Engineering

Pressure Equipment Directive PED

Lloyds Register have approved Blackhall Engineering Ltd compliance as manufactures of pressure equipment in accordance with directive 97/23/EC since 18th October 2001.

In summary all pressure equipment manufactured by the Blackhall Engineering Group is fully in compliance with the regulations of this directive namely:

Pressure equipment and assemblies placed on the market in the United Kingdom and the European Economic Area above 0.5bar g and volume thresholds will:

- Be Safe
- Meet essential safety requirements covering design, manufacture and testing.
- Satisfy appropriate conformity assessment procedures and carry all CE marking and other information.

Cryogenic valves

The Blackhall range of Cryogenic valves has been accepted globally throughout the international industrial Gas industry.
They are used widely in the manufacture, storage and transportation of all cryogenic fluids.

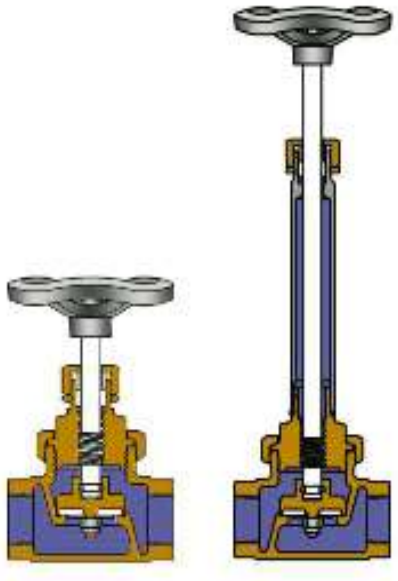
We now lead the way in cutting edge in Cryogenic Valve technology. Our research and development programs continually pioneer the use of new engineering materials with a great emphasis on safety and longevity.

- Inert gas sintered P.T.F.E seat
- Precision lightweight investment cast bodies (series 2000)
- Long life, low torque spindle thread
- Anti blow out spindle
- Reversible seat design (Globe & Check)
- Screwed and soldered high strength ext. tube

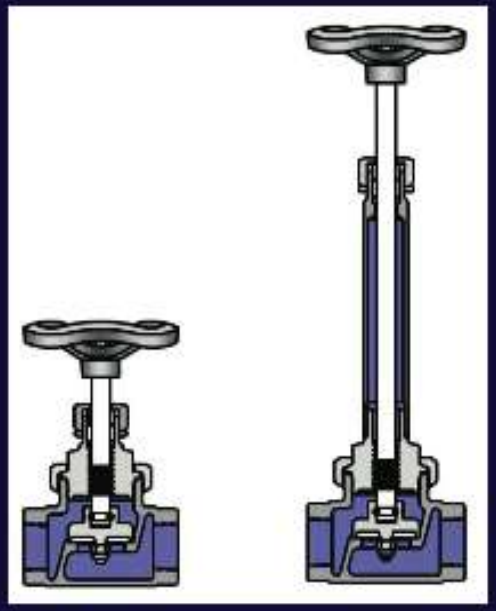
Distribution of LOX, LIN and LAR
Gate, Globe, Control, Check, ‘Cardio’ switch valves and specialty valves.
Sizes: 1/2” to 4”+

Air Separation Plants
Gate, Globe, Control, Check, ‘Cardio’ switch valves and specialty valves
Sizes: 1/2” to 16”+

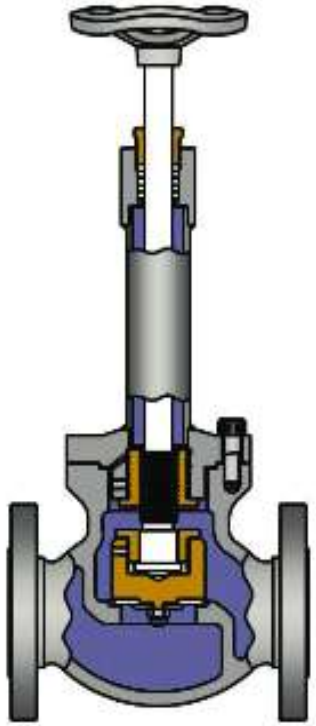
- Inert gas lightweight investment cast bodies (series 2000)
- Long life, low torque spindle thread
- Anti blow out spindle
- Reversible seat design (Globe & Check)
- Screwed and soldered high strength ext. tube



Globe and Check Valves
Series 2100 / 2300 / 2500 / 2700
Bronze - Modular Design
'Difflock' design 08 GB 179.
DN15, DN25, DN40 and DN50
PN40
Extended and Non Extended
Regulating Option



Globe and Check Valves
Series 2200 / 2400 / 2600 / 2800
Stainless Steel - Modular Design
'Difflock' design lock ring
B.A.M Approved 08 GB 179.
DN15, DN25, DN40 and DN50
PN40
Extended and Non Extended
Regulating Option



Bolted Bonnet Globe Valves
Series 9211 / 9201/ 9221
Bronze / Monel / Stainless Steel / Aluminum
Design to ANSI B.16.34
DN15 TO DN200 Class 150 to Class 1500
1/2" to 8" Larger sizes on request
Non Extended, Extended Spindle and
Extended Bonnet Designs, Control trim.
Flanged, socket weld or butt weld ends.

Blackhall Series 2000 range - Standard Tanker Valves

Design	:	Valves are full bore, manual operated, inside screw, rising stem design				
Size range	:	DN15	DN25	DN40	DN50	
Pressure rating	:	PN40				
Temperature range	:	-196deg C to +65 deg C				
Fluids / service	:	Oxygen	Argon	Nitrogen	LNG	Other cryo fluids
End connections	:	Cone Screwed		Socket Weld		Butt Weld Flanged

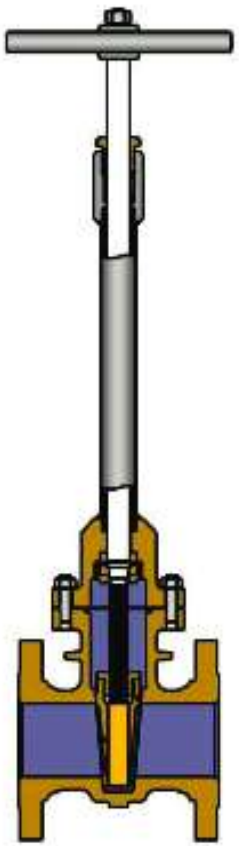
Blackhall Series 9200 range - Standard Plant Valves

Design	:	Valves are full bore, manual operated, inside screw, rising stem design				
Size range	:	DN15	to	DN300	(larger sizes on request)	
Pressure rating	:	PN40	to	PN100	(CL150 to CL1500	
Temperature range	:	-196 deg C to +65 deg C				
Fluids / service	:	Oxygen	Argon	Nitrogen	LNG	Other cryo fluids
End connections	:	Socket Weld		Butt Weld		Flanged

Blackhall Series 2000 range - Standard Tank Valves

Gate Valves

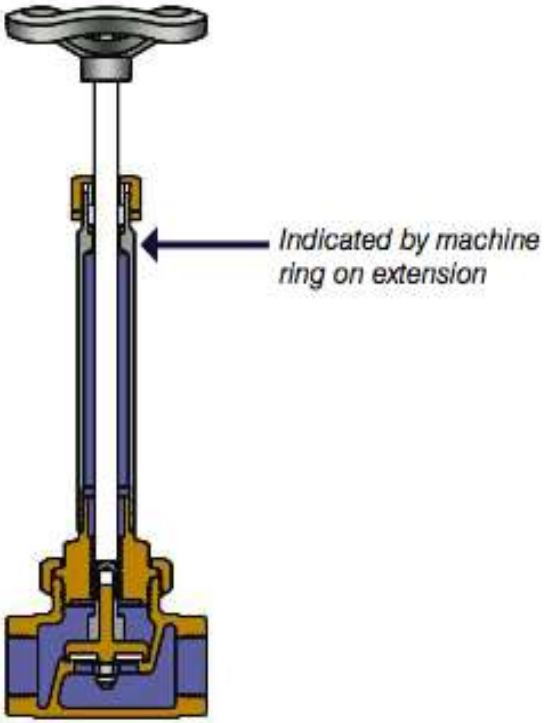
Description	Style	Series	Data Sheet
Bronze Globe Valve	Extended Spindle	2100	01
Stainless Steel Globe Valve	Extended Spindle	2200	02
Bronze Globe Check Valve	Extended Spindle	2300	03
Stainless Steel Globe Check Valve	Extended Spindle	2400	04
Bronze Globe Valve	Non Extended	2500	05
Stainless Steel Globe Valve	Non Extended	2600	06
Stainless Steel Globe Valve	Extended Spindle	9201	17
Bronze Globe Valve	Extended Spindle	9211	18
Aluminum Globe Valve	Extended Spindle	9221	19
Bronze Globe Valve	Extended Spindle	2101	30
Bronze Globe Valve	Non Extended	2501	32



Gate Valves
Series 9111 / 9101 / 9121
Bronze / Monel / Stainless Steel and Aluminum
Design to ANSI B.16.34
DN15 to DN200 Class 150 to Class 1500
1/2” to 8” Larger sizes on request
Non Extended, Extended Spindle and
Extended Bonnet Designs
Flanged, socket weld or butt weld ends

Blackhall Series 9100 range - Standard Tanker and Plant Valves

Design	:	Valves are full bore, manual operated, inside screw, rising stem design				
Size range	:	DN15	to	DN200	(larger sizes on request)	
Pressure rating	:	PN16	to	PN100	(CL150 to CL1500	
Temperature range	:	-196 deg C to +65 deg C				
Fluids / service	:	Oxygen	Argon	Nitrogen	LNG	Other cryo fluids
End connections	:	Socket Weld		Butt Weld		Flanged



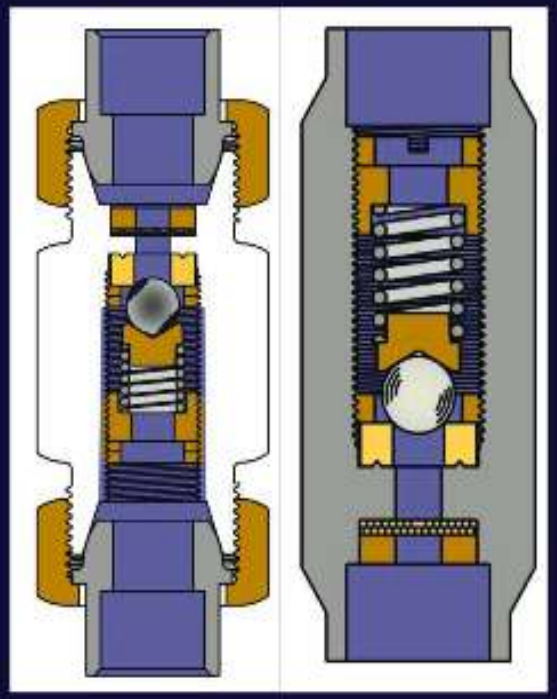
Combined Globe / Check Valve
Series 2200 / 2700
Bronze - Modular Design
'Difflock' design lock ring
B.A.M Approved 08 GB 179.
DN15, DN25, DN40 and DN50
PN40
Extended and Non Extended
Regulating Option

Blackhall Series 2800 range - Standard Tanker and Plant Valves

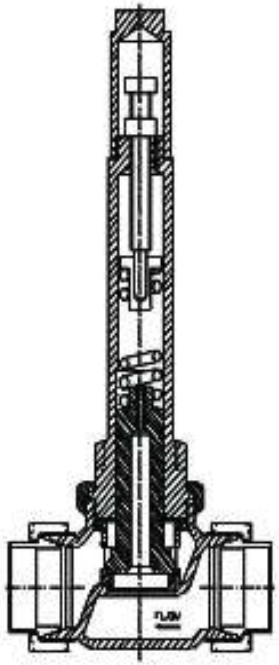
Design	:	Valves are full bore, piston and swing type				
Size range	:	DN15	to	DN200	(larger sizes on request)	
Pressure rating	:	PN40	to	PN100	(CL150 to CL1500	
Temperature range	:	-196 deg C to +65 deg C				
Fluids / service	:	Oxygen	Argon	Nitrogen	LNG	Other cryo fluids
End connections	:	Socket Weld		Butt Weld		Flanged

Blackhall Engineering Group continues to lead the way in innovation.

Our research and development programs continually pioneer new cryogenic valve designs with the emphasis on safety and longevity.

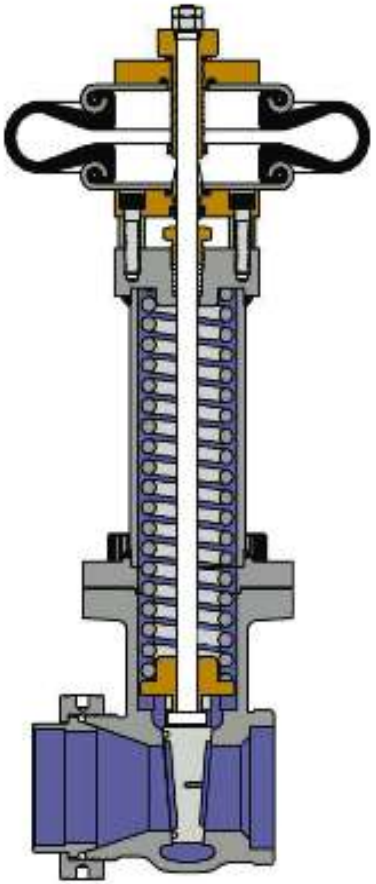


Thermal Relief
Bronze / Stainless Steel
DN15 PN40
1/2” Class 300
Screwed, socket weld or
butt weld ends built in filter



Bypass Valves
Bronze / Stainless Steel
DN40 PN40
1 1/2” Class 300
Union, socket weld or butt weld

Diverter Valves
Bronze / Stainless Steel
Globe and Plug Type
DN15 PN200
1/2” to 8”+
Class 150 to Class 300 (PN40)
Union Ends, Screwed & flanged



Spring Shut off Valve - S.S.O.V
Bronze / Stainless Steel
DN15 PN80
1/2” to 3”+
Class150 to Class300 - (PN40)
Flanged, socket weld or Screwed End

Water Industry Valves

Service and Repair

1910 100 YEARS 2010

Larner-Johnson® Valve

using the force of nature

Field Operations

- Qualified refurbishment valve engineers. Retrofit and refurbishment of gearbox, actuators and other associated valve systems.
- International Experience
- Confined spaces trained and qualified personnel.
- Internal valve examination using specialist endoscopic video equipment.
- Independent valve inspection specialists.
- Ultrasonic testing / examination.
- Valve Consultancy.
- Troubleshooting.

Blackhall Since 1965 Taylor Since 1824 Shaw Since 1870

Water Industry Valves

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1910 100 YEARS 2010

Larner-Johnson® Valve

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United Utilities Llwyn-On Reservoir 2007 & 2008

Blackhall Since 1965 Taylor Since 1824 Shaw Since 1878