

Certifications



# 2L Engineers

*SafeByDesign.*

Manufacturers & Exporters of  
Industrial Valves



## MULTI PRODUCT CATALOGUE

BRINGING YOU  
THE CONTEMPORARY  
TRENDS IN  
**VALVE**  
TECHNOLOGY



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# Welcome To 2L Engineers



TEAM 2L ENGINEERS



(View of the shop floor)

Our Vision : Our vision is to be the globally preferred brand in Valve Technology.

## IN-HOUSE FACILITIES

Cryogenic Testing



Fugitive Emission Testing



Firesafe Testing



Vaccum Testing



100% PMI Testing



CNC Machining



VMC Machining



In-house Welding Facility



100% Testing



Shot Blasting



Painting



Laser Engraving





## BALL VALVE (FLOATING)



- |                 |   |
|-----------------|---|
| <b>Features</b> | <ul style="list-style-type: none"> <li>• Cast &amp; forged valves</li> <li>• Available in both soft or metal seat</li> <li>• Full bore &amp; reduced bore designs</li> <li>• Double body joint &amp; triple stem sealing</li> <li>• Fire Safe as per API 607 &amp; API 6FA</li> <li>• Stem extension possible</li> <li>• Antistatic device</li> </ul> |
|-----------------|---|

<b>Design Standard</b>	BS EN ISO 17292 (BS5351), API 6D
<b>Size</b>	DN 15 to DN 250 ( 1/2" to 10" )
<b>Pressure rating</b>	ASME 150# to 300#
<b>Material Construction</b>	WCB, LCB, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M, Monel, Gun Metal & Aluminium Bronze
<b>Operation</b>	Lever, Gear & Actuators (Pneumatic, Hydraulic & Motorized)
<b>Seat</b>	PTFE, PEEK, RPTFE & Metal Seated
<b>End Connection</b>	Flanged, Butt-Weld, Screwed & Socket-Weld, Pup end, RTJ etc.,

## BALL VALVE (Trunnion Mounted Design)



- |                 |   |
|-----------------|---|
| <b>Features</b> | <ul style="list-style-type: none"> <li>• Cast &amp; forged valves</li> <li>• Available in both soft or metal seat</li> <li>• Full bore &amp; reduced bore designs</li> <li>• Double body joint &amp; triple stem sealing</li> <li>• Fire Safe as per API 607 &amp; API 6FA</li> <li>• Blow out proof stem construction</li> <li>• ISO 5211 top pad for mounting</li> <li>• Antistatic device</li> </ul> |
|-----------------|---|

<b>Design Standard</b>	BS EN ISO 17292 (BS5351), API 6D
<b>Size</b>	DN 50 to DN 900 ( 2" to 36" )
<b>Pressure rating</b>	ASME 150# to 2500#
<b>Material Construction</b>	WCB, LCB, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M, Monel, Hast Alloy, Gun Metal & Aluminium Bronze
<b>Operation</b>	Lever, Gear & Actuators (Pneumatic, Hydraulic & Motorized)
<b>Seat</b>	PTFE, PEEK, Viton, Reinforced PTFE & Metal Seated
<b>End Connection</b>	Flanged, RTJ & Butt-Weld

## BUTTERFLY VALVE (CENTRIC DESIGN)



- |                 |  |
|-----------------|--|
| <b>Features</b> | <ul style="list-style-type: none"> <li>• Stem extension possible</li> <li>• Split Design with PTFE Sleeve for high performance</li> <li>• Semi lugged &amp; full lugged designs</li> <li>• Different Lining &amp; Metallurgy to suit a wide variety of applications</li> </ul> |
|-----------------|--|

<b>Design Standard</b>	BS EN 593, AWWA C504, API 609
<b>Size</b>	DN 40 to DN 600 (1.1/2" to 24")
<b>Pressure rating</b>	PN 6 to PN 16 & 150#
<b>Material Construction</b>	Cl, DI WCB, CF8, CF8M, AB2, Duplex & Super Duplex
<b>Operation</b>	Lever, Gear & Actuators (Pneumatic, Hydraulic & Motorized)
<b>Seat (Replaceable Type)</b>	EPDM, Silicon, Viton, Nitrile, Hypalon & NBR
<b>End Connection</b>	Wafer & Lugged

## BUTTERFLY VALVE (DOUBLE OFFSET DESIGN)



- |                 |   |
|-----------------|---|
| <b>Features</b> | <ul style="list-style-type: none"> <li>• Stem extension possible</li> <li>• Top mounting as per ISO 5211</li> <li>• Self energizing seat design</li> <li>• Blow out proof stem</li> </ul> |
|-----------------|---|

<b>Design Standard</b>	BS EN 593, AWWA C504, API 609
<b>Size</b>	DN 100 to DN 600 ( 4" to 24" ) Higher Sizes on request
<b>Pressure rating</b>	PN 6 to PN 16
<b>Material Construction</b>	Cl, DI WCB, CF8, CF8M, Duplex & Super Duplex & MS Fabricated
<b>Operation</b>	Lever, Gear & Actuators (Pneumatic, Hydraulic & Motorized)
<b>Seat</b>	EPDM, Silicon, Viton, Nitrile, NBR & Metal seated
<b>End Connection</b>	Wafer, Lugged & Flanged

## GATE VALVE



### Features

- OS & Y Construction
- Bi directional shut-off
- Valves provided with backseat arrangement
- Anti-frictional ball bearings for higher sizes & Classes
- Locking arrangement possible

### Design Standard

API 600, ANSI B 16.34 ISO 10434

### Size

DN 50 to DN 600 [2" to 24"]

### Pressure rating

ASME 150# to 1500#

### Material Construction

WCB, LCB, CF8 & CF8M, Duplex Stainless Steel

### Operation

Handwheel, Gear & Actuator

### Seat

Metal to Metal

### End Connection

Flanged, Butt Weld Ends

## GLOBE VALVE



### Features

- OS & Y Construction
- Bi directional shut-off
- Valves provided with backseat arrangement
- Anti-frictional ball bearings for higher sizes & Classes
- Locking arrangement possible

### Design Standard

BS 1873, ANSI B 16.34

### Size

DN 50 to DN 600 [2" to 24"]

### Pressure rating

ASME 150# to 1500#

### Material Construction

WCB, LCB, CF8 & CF8M, Duplex Stainless Steel

### Operation

Handwheel, Gear & Actuator

### Seat

Metal to Metal

### End Connection

Flanged, Butt Weld Ends

## SWING CHECK VALVE



### Features

- Gasket design to ensure self sealing under pressure
- Non-rotating disc is fastened securely to disk hanger with a lock nut and cotter pin
- All parts are accessible from top for easy servicing

### Design Standard

API 6D, BS 1868, ANSI B 16.34

### Size

DN 50 to DN 350 [2" to 14"]

### Pressure rating

ASME 150# TO 900#

### Material Construction

DI, WCB, LCB, CF8 & CF8M

### Operation

Automatic

### Seat

Metal to Metal

### End Connection

Flanged, Butt Weld Ends

## Customised Valve Solutions



At 2L Engineers we are flexible to the varied product design requests of our customers. Based upon our long years of experience and fresh ideas, we have come to offer various product customizations for each requirement and have achieved a high level of customer satisfaction.

We put our engineering expertise and innovative manufacturing capabilities to create a custom valve solution that matches the requirements of your unique application.

## CHECK VALVE (DUAL PLATE)



- Features**
- Available in both soft & metal seated
  - Swinging disk design to protect low pressure and smaller system
  - Different Lining & Metallurgy to suit a wide variety of applications
  - Available with lifting bolts for easy installation

<b>Design Standard</b>	API 594, API 6D BS EN 19342
<b>Size</b>	DN 50 to DN 600 [ 2" to 24" ]
<b>Pressure rating</b>	PN10, PN16, ASME 150# to 1500#
<b>Material Construction</b>	Cl, DI, WCB, CF8, CF8M & Duplex Steel
<b>Operation</b>	Automatic
<b>Seat</b>	Soft : EPDM, Silicon, Viton, Nitrile & NBR, Metal Seated
<b>End Connection</b>	Lugged, Wafer & Flanged

## OTHER CHECK VALVES



- Features**
- Minimizes piping support with the compact wafer style body
  - Replaceable O-ring seat, available in all styles & sizes
  - Different Lining & Metallurgy to suit a wide variety of applications

<b>Design Standard</b>	API 6D BS EN 13942
<b>Size</b>	DN 25 to DN 300 [ 1" to 12" ]
<b>Pressure rating</b>	PN 10 & PN 16
<b>Material Construction</b>	Cl, DI, WCBM CF8, CF8M & Duplex Steel
<b>Operation</b>	Automatic
<b>Seat</b>	Soft : EPDM, Silicon, Viton, Nitrile, NBR & PTFE, Metal-to-Metal
<b>End Connection</b>	Wafer

## PLUG VALVE (SLEEVED)



- Features**
- Bi directional flow
  - Plug designed to ensure low operating torque
  - Self sealing design
  - No cavity in the plug valve for accumulating of the medium
  - ISO 5211 mounting pad for actuation

<b>Design Standard</b>	API 599, BS EN ISO 5353
<b>Size</b>	DN 15 to DN 300 [ 1/2" to 12" ]
<b>Pressure rating</b>	ASME 150# & 300#
<b>Material Construction</b>	WCB, CF8, CF8M & CN7M
<b>Operation</b>	Lever, Gear & Actuators [Pneumatic & Motorized]
<b>Seat (Replaceable Type)</b>	PTFE
<b>End Connection</b>	Flanged & Screwed

## FORGED STEEL VALVES



- Features**
- Stem extension possible
  - Renewable seat rings for longer service life
  - Welded bonnet on request for high pressure
  - Lift type design for check valve

<b>Design Standard</b>	BS EN ISO 15761 [ BS 5352 ], API 602
<b>Size</b>	DN 15 to DN 50 [ 1/2" to 2" ]
<b>Pressure rating</b>	ASME 150#, 300#, 800# TO 2500#
<b>Material Construction</b>	A105, F304, F316, LF2, F11, F22, F51 & F55
<b>Operation</b>	Handwheel, Gear & Actuators
<b>Seat</b>	Soft Seat & Metal seated
<b>End Connection</b>	Screwed, Socket, Butt Weld & WNRF

For any other materials of constructions, size and pressure rating contact 2L Engineers  
2L Engineers reserves the right to change the contents without notice



# PRODUCT PHOTO GALLERY



Valves  
installed in  
**18+** Countries  
& counting....



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