



**C.R.I. VALVES**  
Engineers Choice

# Valves that bear the Hallmark of Quality





**C.R.I. VALVES**  
Engineers Choice

The Company with

- Commitment
- ○ Reliability
- ○ ○ Innovation

- C.R.I. has now become a household name associated with water lifting pumps — be it for Residential, Agriculture, Industries, Building, Waste Water, Mining, Oil & Gas & Civil Applications, Solar System.
- Besides C.R.I. manufactures Pipes, Building wires, Cables, Industrial valves etc. for Catering to the various segments.
- More than 5 decades of engineering expertise.
- Has a network of 29 branches and more than 3000 dealers across India. 700 Service centers across the country to cater timely service.
- Fortified presence, globally over 120 countries across six continents.
- Manufactures over 1800 product variants. One among the few leaders in the Industry to produce 100% stainless steel pumps.
- Products are with international quality certifications... ISI, CE, UR, UL, ISO 9001, ISO 14001, and OHSAS 18001.
- Winner of EEPC India Award for 11 years since 2003.
- Equipped with World class machinery housed in over 2.5 Lakh Sq meter with a manufacturing facility of more than 2 Million pumps and motors per annum.
- Recognized by The Ministry of Science & Technology, Govt. of India. State of the art R&D wing has more than 100 Engineers & is facilitated with latest design tools, software and a state-of-the-art prototyping & testing facilities.
- Fully mechanized and automated Foundry with state-of-the-art technology.



## BUTTERFLY VALVES

### Application

HVAC | Fire Fighting | Construction | Water & Waste Water Treatment | Paper & Pulp Industry | Sugar & Chemical Industry | Food & Pharmaceutical Industry | Cement Industry | Metal & Mining

### Product Range & Specification

Size – 1 ½" – 24"  
 Pressure Rating – PN 10 / PN 16  
 End Connection – Wafer & Semi lugged  
 Temperature – -30°C to 130°C  
 Operation – Hand Lever / Gear / Electrical / Pneumatic  
 Material of construction – CI, DI, SS, Iron & Steel, others available on request

### Standards

Design – EN 593 / API 609 / IS 13095  
 Face to Face – ISO 5752  
 Top Flange – ISO 5211  
 Testing – API 598 / IS 13095  
 Flange – ANSI / BS / DIN

### Features

- Self lubricated journal bearings
- Tight shutoff with low torque
- Corrosion resistant, long life fusion bond coating



## RESILIENT GATE VALVE

### Application

Drinking Water | Sewage | Irrigation Systems | Waste Water  
 Heating System (up to 70°C)

### Product Range & Specification

Size – 2" to 12"  
 Pressure Rating – PN 10 / PN 16 / PN 25  
 End Connection – Flanged  
 Temperature – Up to 70°C  
 Operation – Hand Wheel / Gear Box / Electrical / Pneumatic  
 Material of construction – Iron & Steel, others available on request

### Standards

Design – BS 5163, EN 1074 - 1, EN 1074 - 2  
 Face to Face – EN558 - 1 / ISO5752  
 Flange Standard Conformity – EN 1092 - 2  
 Testing – EN 12266 - 1, BS 6756 - 1

### Features

- 100 % Leak proof
- Ductile Iron Wedge with all around EPDM encapsulation
- Compact Design & Lightweight YET sturdy and robust
- Internally and Externally fusion bond coated to minimum 250 microns
- Integral seat, Inline maintenance / replacement of gland packing



## AIR VALVE



### Application

Water Application | General Industries | Agriculture

### Product Range & Specification

Size – 2" to 12"

Pressure Rating – PN 10 / PN 16 / PN 25

End Connection – Flanged

Temperature – Up to 80°C

Material of construction – Iron & Steel, others available on request

### Standards

Design – AWWA C 512 – 07, EN 1074 – 1 & 4

Flange Standard Conformity – EN 1092

Testing – EN 12266

### Features

- Very efficient triple function (Air release, Air intake and Air release under pressure)
- Specially designed tamperproof cover ensures free, all-round (360 Degrees) air movement
- Optional Stainless Steel Float & Cage design ensuring perfectly centered float
- Tamper proof design
- Floats are designed to optimum specific gravity ensuring quick response to level changes
- Replaceable seat and seals
- Internally and Externally fusion bond coated to minimum 250 microns
- Optional shutoff valve.
- Optional ANSI 150# flange design
- Endurance tested and proven at FCRI

## Y STRAINER



### Application

Cement Plant | Chemical Industries | Pharmaceutical Industries | Power Plants  
 Sugar Industries | Pulp & Paper Industry | Fertilizer plant & Allied Industries.

### Product Range & Specification

Size – 2" to 12"

Pressure Rating – PN 10 / PN 16

End Connection – Flanged

Temperature – Up to 80°C

Material of construction – Iron & Steel, others available on request

### Standards

Design – Manufacturer Standard

Face to Face – ANSI / BS

Flange Standard Conformity – BS10 / EN / ANSI

Testing – EN 12266 – 1

### Features

- Compact Design
- Blow-off plug for screen maintenance
- 1/32 " to 1/2" perforated stainless steel screens
- 40, 60, 80, 100 fine mesh stainless steel screens



## NRV VALVE

### Application

Clean Water | Raw water | Sewage | Slurry | Waste Water | Viscous liquids etc

### Product Range & Specification

Size – 2" to 12"

Pressure Rating – PN 10 / PN 16

End Connection – Flanged

Temperature – Up to 80°C

Material of construction – Iron & Steel, others available on request

### Standards

Design – EN 13445, EN 12334

Face to Face – IS 5312 / DIN 3202

Flange Standard Conformity – BS10 / EN

Testing – IS 5312 / EN 12266

### Features

- Lowest possible pressure drop across the valves
- 100% leak proof sealing
- Non – Clogging and self cleaning type
- Straight through bore ensure more CV
- Lower head loss-high discharge, reduced pumping time
- Valve can be mounted horizontal as well as vertical



## WAFFER TYPE CHECK VALVE

### Application

Water Treatment | Cooling water & Water Supply | Process Industries | Effluent Treatment & Sewage | Food & Beverage | Thermal & Nuclear Power | Chemical & Fertilizer | Pharmaceutical

### Product Range & Specification

Size – 2" to 12"

Pressure Rating – PN 10 / PN 16

End Connection – Flanged, Wafer

Temperature – Up to 80°C

Material of construction – Iron & Steel, others available on request

### Standards

Design – API 6D / ANSI B16.34

Face to Face – API 6D

Flange Standard Conformity – ANSI / DIN / BS 10

Testing – API 598

### Features

- Self Aligning free floating disc ensures perfect sealing
- Full bore ensures low pressure drop
- Corrosion resistant hardened seat



## DUAL PLATE CHECK VALVE



### Application

Metal and Mining | Food & Beverage | Paper & Plup | Textile & tannery | Chemical & Pharmaceutical | Water and Waste Water | Sugar & Distillation

### Product Range & Specification

Size – 2" to 24"

Pressure Rating – ANSI 150#

End Connection – Flanged

Temperature – Up to 80°C

Material of construction – Iron & Steel, Others available on request

Type – Dual Disc, Unlined / Fully Lined body

### Standards

Design – API 594

Face to Face – API 594

Flange Standard Conformity – ASME B 16.5 / B 16.47

Testing – API 598

### Features

- Narrow type, Self aligning ensure tight shut-off. Low Pressure drop
- Corrosion resistant hardened seat.

## KNIFE GATE VALVE



### Application

Water and Waste water | Abrasive slurries | Chemical Slurries | High Viscous media.

### Product Range & Specification

Size – 2" to 34"

Pressure Rating – PN10 / PN 16 / ANSI 150#

End Connection – Flanged, Wafer (Jugged / Semi Lugged)

Temperature – O-ring - Up to 80°C, PTFE / RPTE up to 260°C, Metal - Above 300°C

Material of construction – Steel, others available on request

### Standards

Design – MSS SP 81

Face to Face – MSS SP 81 / ASME B 16.10

Flange Standard Conformity – MSS SP 81 / ASME B 16.5 / ASME B 16.47

Testing – MSS SP 81

### Features

- Full bore construction ensure more Cv, Less Pressure drop
- Full polished gate ensures free movement
- Guiding of gate ensure alignment of gate and Bi-Directional shutoff
- Inline maintenance of gland packing



# CAST STEEL VALVES

## Application

Steam Service | Oil & Gas | Petrochemicals | Power Plants | Chemical & Fertilizers  
 Sugar & distillation | Metal & Mining | Paper & Pulp | Water & Waste Water  
 Textile & Tannery | Food Pharmaceuticals

## Product Range & Specification

Size – 1" to 12" (Gate valve), 2" to 12" (Check valve) 2" to 6" (Globe valve)  
 Pressure Rating – ANSI Class 150 # to 600#  
 End Connection – Flanged / Welded  
 Temperature – As per ASME B 16.34  
 Material of construction – Steel, others available on request  
 Type – Hand wheel / Gear Box / Pneumatic Actuator

## Standards

Valve Standards	Gate	Globe	Check
General Designs	API 600	BS 1873	API 6D/BS 1868
Face to Face	ASME B 16.10	ASME 16.10	ASME B 16.10
Pres & Temp rating	ASME B 16.34	ASME B 16.34	ASME B 16.34
Flange Standard	ASME 16.5	ASME 16.5	ASME 16.5
Butt Welding End Conformity	ASME 16.25	ASME 16.25	ASME 16.25
Testing Standard Conformity	API 598	API 598	API 598



**GATE VALVES**

Type: Bolted Bonnet OS & Y,  
Flexible Wedge



**CHECK VALVES**

Type : Swing Check



**GLOBE VALVES**

Type : Bolted Bonnet OS  
& Y, Narrow Seat type Disc

## Features

- Lowest possible pressure drop across the valves
- 100% leak proof sealing
- Non – Clogging and self cleaning type
- Straight through bore ensure more Cv

# FORGED VALVES

## Application

Steam Service | Oil & Gas | Petrochemicals | Power Plants | Chemical & Fertilizers  
 Sugar & distillation | Metal & mining | Paper & Pulp | Water & Waste Water  
 Textile & Tannery | Food Pharmaceuticals

## Product Range & Specification

Size – 15 mm to 50 mm  
 Rating – ANSI-800#, 1500#, 2500#

## Standards

Valve Standards	Gate /Globe/Check
Designs	API 602 / IS 15761
End Standard	Socket End - ANSI B 16.11 Screwed End - (NPT) to ANSI / ASME B1.20.1
Testing Standard	API 598

## Features

- Leak-proof Body - Bonnet joint with spiral wound gasket
- Ground finish stem. Self aligned two piece gland.
- Back seating feature facilitates re-packing of the stuffing box on line with the valve in fully open position.
- Blowout proof stem.



**Steel Check Valve**

Type Bolted Bonnet, Piston Type Plug  
Spring Loaded Plug & Renewable Seat Ring



**Steel Gate Valve**

Type : Bolted Bonnet, 'OS' & 'Y'  
type Rising Stem



**Steel Globe Valve**

Type : Bolted Bonnet,  
'OS' & 'Y' type Rising Hand Wheel

## TRUNNION MOUNTED BALL VALVE



### Application

Oil & Gas | Paper & Pulp | Water | Chemicals | Slurry | General Industries

### Product Range & Specification

Size – 2" to 12"

Pressure Rating – 150 # to 600#

End Connection – Flanged / Welded

Temperature – O-ring - Up to 80°C, PTFE / RPTE up to 260°C, Metal - Above 300°C

Material of construction – Steel, others available on request

Operation – Manual, Actuator

Type – Single piece, Two Piece & Three Piece, FB

### Standards

Design – API 6D, ASME B 16.34, ISO 17292

Face to Face – ASME B 16.10, API 6D

Flange Standard Conformity – ASME B 16.5

Testing – API 6D, API 598, EN 12266/ Part 2

### Features

- Fire Safe design
- Less operating torque
- Blow out proof stem.
- Single and double piston effect design also available
- Antistatic design

## BALL VALVES



### Application

Clean Water | Raw Water | Sewage | Slurry | Waste Water | Viscous liquids etc.

### Product Range & Specification

Size – 2" to 8"

Pressure Rating – PN 10 & PN 16

End Connection – Flanged end

Temperature – Up to 80°C

Material of construction – Steel, Others available on request

Operation – Manual, Actuator

### Standards

Design – B16.34 / ISO 17292

Face to Face – ASME B 16.5 / EN

Flange Standard Conformity – ASME B 16.5 / EN 1092

Testing – ASME B 16.34 / EN 12266-1

### Features

- Straight bore ensure low pressure drop
- Anti static design
- Fire safe Design
- Pressure relief feature
- Blow out proof stem & Low operational torque