

# INNOVATIVE ENGINEERING FOR FLOW CONTROL SOLUTIONS

Imagine an Innovative design in a Valve and add Reliability factor to it and that's Valves from C.R.I. True to its tradition, valves from C.R.I. have been designed with clear focus on the customer's diverse applications and needs using best of the design tools and technology.

Manufactured in a State-of-the-Art facility backed up with inhouse Steel Foundry, C.R.I. Valves meet the exacting demands of a variety of applications - a fact well recognized by the accreditations and certifications such as API 600, IBR, ISO 9001. In fact the valve designs have also been validated by Lloyds Registras which itself speaks about the quality of the designs and manufacturing practices.

## WORLD-CLASS QUALITY HIGH RELIABILITY OPTIMUM PERFORMANCE

- Perfect choice for all process applications
- Backed by solid R&D and manufacturing facilities including captive steel foundry
- Ability to meet any big orders with shortest lead time

### APPLICATIONS

- Oil & Gas
- Petrochemicals
- Power Plants
- Chemicals & Fertilizers
- Sugar & Distillation
- Food & Pharmaceuticals
- Steam Service
- Metal & Mining
- Paper & Pulp
- Water & Waste water
- Textile & Tannery



**CHECK VALVE**

### SALIENT FEATURES

- Valves meet API6D / BS1868 design requirements
- Self aligning free floating disc ensures perfect sealing
- Body full bore to ensures streamlined flow hence no pressure drop
- Hardened seats minimize on line erosion & provide maximum service life
- Variety of materials available to suit special application requirement

ISO 9001  
API 600/API 6D  
IBR  
LLOYDS DESIGN  
VALIDATION  
TDC

**IN SIMPLE WORDS, C.R.I. VALVES - AN ENGINEER'S CHOICE**



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## CHECK VALVE

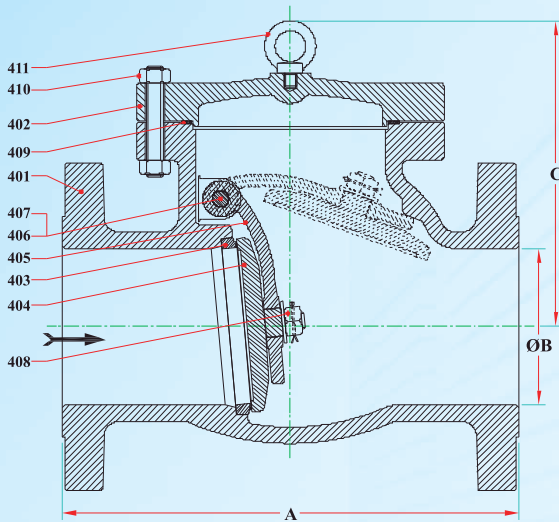
### DESIGN STANDARD

Basic Design : API 6D / BS1868  
 Face to Face : ASME B 16.10  
 Pressure & Temperature Rating : ASME B 16.34 (Standard Class)  
 Flange Standard Conformity : ASME B 16.5  
 Test : API 598

### PRODUCTS RANGE

Size : DN50 - DN300  
 Type : Swing Check  
 Rating : Class 150, Class 300 & Class 600

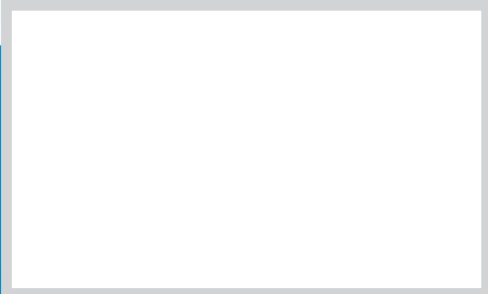
MATERIAL OF CONSTRUCTION				
Part No.	Part Name	Material Specification		
401	Body	A216 - WCB	A351 - CF8	A351 - CF8M
402	Cover	A216 - WCB	A351 - CF8	A351 - CF8M
403	Seat Ring	A105 + 13% CR	A351 - CF8	A351 - CF8M
404	Disc	A217 - CA15	A351 - CF8	A351 - CF8M
405	Disc Carrier	A276 - 410	A276 - 304	A276 - 316
406	Hinge Pin	A276 - 410	A276 - 304	A276 - 316
407	End Plug (Hex)	A276 - 304	A276 - 304	A276 - 316
408	Nut & Washer	A276 - 304	A276 - 304	A276 - 316
409	Gasket	SS + Graphite Filled		
410	Full Thread Stud with 2 Heavy Nuts	A193 - B7 / A194 - 2H	A193 - B8 / A194 - 8	A193 - B8M / A194 - 8M
411	Lifting Bolt (6" and above only)	CS		



Valve Size in 'mm'	Class 150				Class 300				Class 600			
	A	ØB	C	Wt. (Approx)	A	ØB	C	Wt. (Approx)	A	ØB	C	Wt. (Approx)
50	203.0	52.0	145	15	267	52.0	148	22	292.0	52.0	160	25.5
80	241.0	76.0	170	25	318.0	76.0	180	40	356.0	76.0	184	45
100	292.0	102.0	195	41	356.0	102.0	208	43	432.0	102.0	218	81.5
150	356.0	153.0	292	68	444.0	153.0	306	108	559.0	153.0	344	165
200	495.0	203.0	345	128	533.0	203.0	387	185	660.0	203.0	470	308
250	622.0	254.0	408	195	622.0	254.0	444	290	787.0	254.0	497	470
300	698.0	305.0	503	275	711.0	305.0	547	380	838.0	298.0	596	638.5

DC/ Check Valve/ 02-13

Dimensions (in mm. unless specified) & Weights (in kg)  
 Note: Subject to change without notice on account of continuous improvement.



## C.R.I. VALVES

Unit of C.R.I. Pumps Private Limited

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