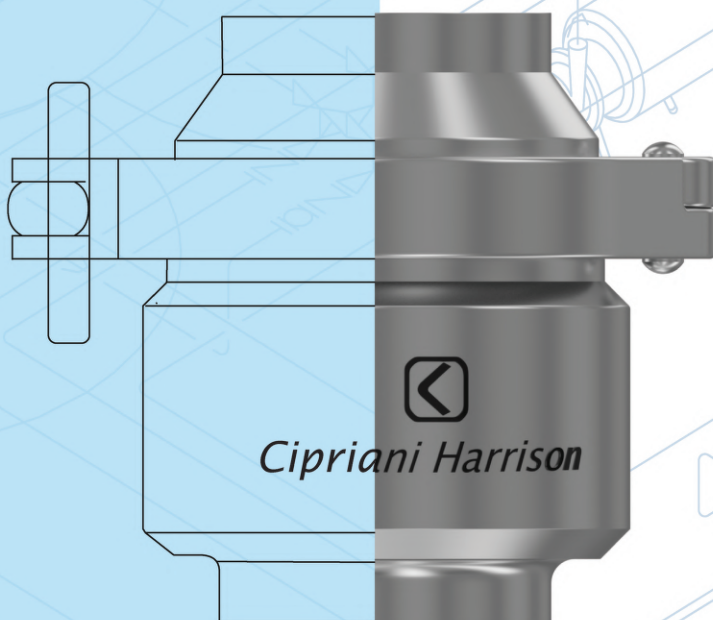




Cipriani Harrison Valves
Hygienic Stainless Steel Valves

Check Valve

An Array Of Hygienic Stainless Steel
Valves & Flow Components.



CHECK VALVE

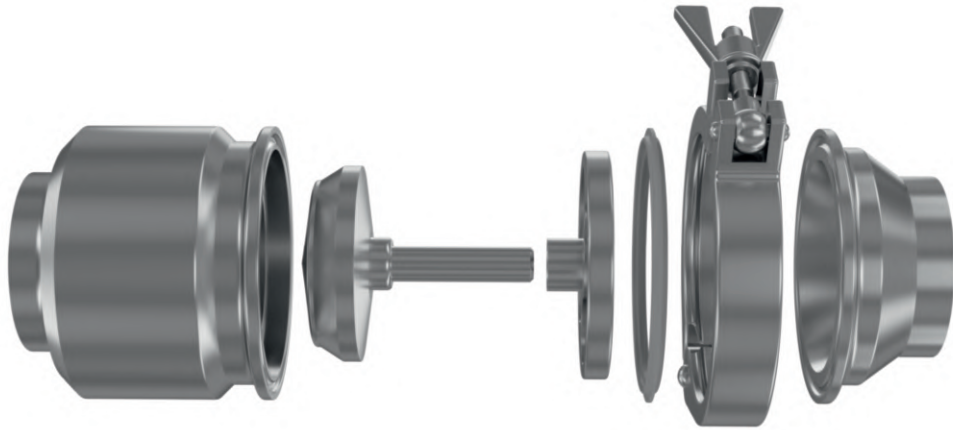
Hygienic Sanitary Check Valves are also commonly referred as “Non-Return Valve”. The Check Valve also referred as Non Return Valve opens when the pressure below the valve plug exceeds the pressure above the valve plug with spring force or dead weight. Cipriani Harrison 64-Series Check Valve are used in process piping system where the fluid is to be passed through one direction and the reverse flow is to be avoided.

Cipriani Harrison Check valves are designed keeping in mind the stringent hygienic design criteria and available with different version to suite its respective application.



DESIGN

Cipriani Harrison Check valve is made up of high quality steel forging ensuring non porous smooth surface, precisely machined for higher dimensional stability.



64 SERIES CHECK VALVE

Cipriani Harrison 64-Series Check valve are made from forged raw material. The valve body is in two parts, assembled by means of a standard clamp and sealed with a standard gasket.



65 SERIES CHECK VALVE

Cipriani Harrison 65-Series Check valve are designed ensuring the stringent requirement of hygienic sanitary guidelines. The 65-Series Check valve is made from High quality forged or bar stock raw material. This valve works on a dead weigh Principle and do not use any springs, which enables it to be used on low Pressure application.



ADVANTAGES

The 64-Series Check Valve are made of High quality forging .

The self-draining design of the lower valve Body enables no residual accumulation and Flushing of the product. Special engineer construction of the disc Ensures to resist heavy pressure hammer, Minimizes the resistance of the flow and Guides the valve plug for better repeatability.



The 65-Series check valve are designed for Low pressure application, where the product Pipe line has low pressure still demands a unidirectional flow.

The 65-Seies valve is designed for horizontal installation. The valve body is designed & precisely machined to ensure no residual accumulation and the product if flushed through the pipeline.

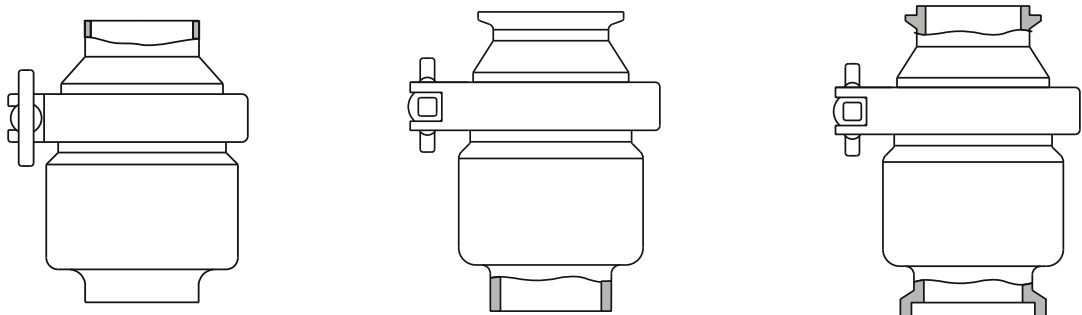
SEALS

Cipriani Harrison's Check Valve are available with comprehensive range of seal option, to fit in the required environment. Different options of seals are available to suite different thermal environment and chemical resistance, intern increasing the seal life.



END CONNECTIONS & STANDARDS

Cipriani Harrison Check valves are available with a wide array of end connection like Weld End, Sanitary Clamp End, Union or Threaded End, I-Line and Flanged end connection. The valves are available in different international standards like ISO, DIN, RJT, IDF, etc to meet different regional needs.



Application

Check valves also known as “non return valves” are designed for use in process piping installation to prevent reverse flow.

Working Principle:

A Check valve opens when the pressure below the valve plug exceeds the pressure above the valve plug and spring force. The valve closes when pressure equalization has been achieved.

Standard Design

The forged stainless steel valve body ensures nonporous, smooth surfaces and dimensionally stable construction, The valve body is in two parts, assembled by means of a standard gasket. The self draining design of the lower valve body enables flushing of the product. Ribbed construction of the stainless steel disc resists heavy pressure hammer, minimizes the resistance to flow and also serves as a guide to the valve plug. All seats and seals are made from FDA approved materials.

Available Sizes

1", 1½", 2", 2½", 3", 4"

DN25, DN40, DN50, DN65, DN80, DN100

Options

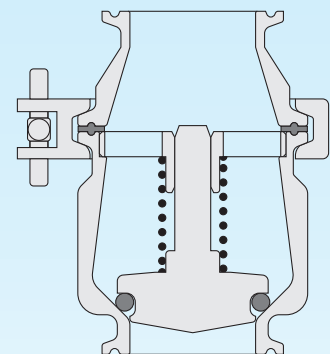
End Connection : Sanitary Clamp, Butt Weld, I-line
or other on request.

FDA approved rubberized plug available on request.

Material : AISI 316L or AISI 304L

Springs : Stronger springs are available for higher pressures.

*3A Approved.



Technical Specification**Material:**

Product wetted steel parts.....AISI 316L or AISI 304L
Other steel parts.....AISI 304

FDA Seals:

O'Ring.....PTFE
Gasket.....PTFE
Optional.....Viton or Silicone

Nominal Pressure:

Maximum product pressure.....150 PSI maximum (10 Bars)
Standard Cracking pressure.....0.5 PSI (0.035 Bars)
Optional Cracking pressure.....3 PSI (0.2 Bars)
*For Additional Cracking pressures
Consult the factory

Temperature & Chemical Compatibility:

Please refer to the temperature and chemical compatibility charts located in the General Information section of the catalog. Temperature & Chemical Compatibility are limited by the seal material.

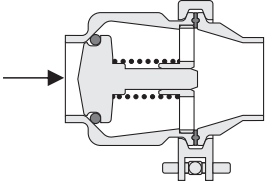
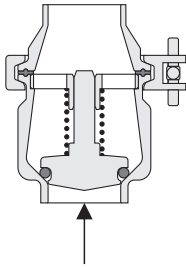
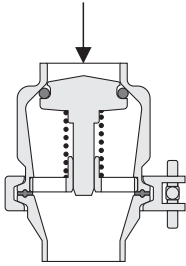
Surface Finish :

Surface in contact with productRa $\leq$ 25 μ in (Grit 220g)
Optional.....Ra $\leq$ 15 μ in (Grit 320g)
*Electropolishing available upon request

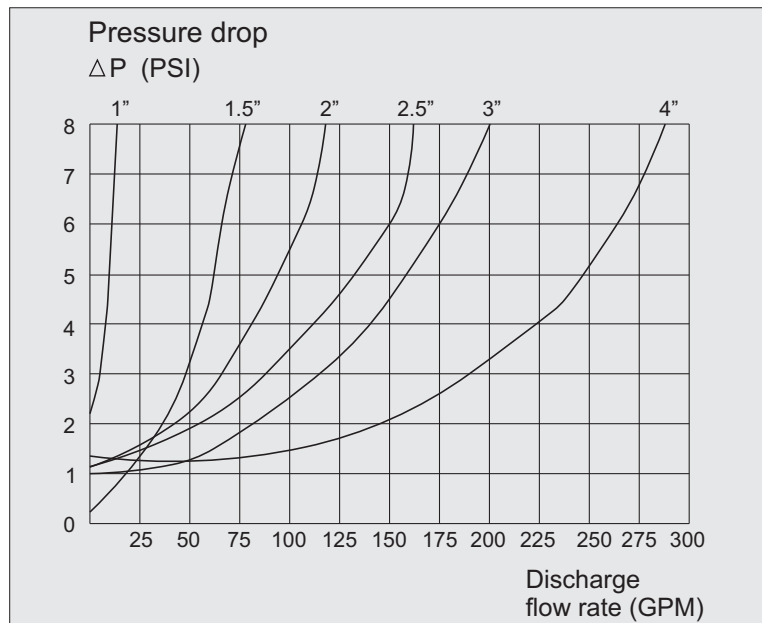
ConnectionsSanitary Clamp (ISO 2852 / BS 48253)
OptionalButt Weld (ISO 2037 / BS 4825-1)
I-Line, Union End
Other connections on request

Max. line pressure.....10 bar
Max. operating temperature.....135 °C EPDM
Short-term load.....140 °C EPDM

Technical Specification

Installation Position	Theoretical Response Pressure In (Bar)
	0.034
	0.04
	0.02

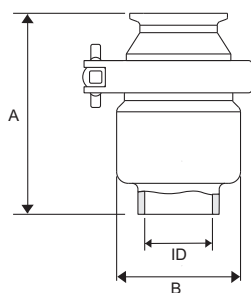
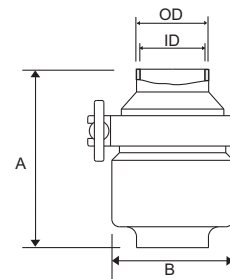
DIN	Inch	Kv Values In m ³ /h
25	1"	-
40	1.5"	32
50	2"	44
65	2.5"	56
80	3"	123
100	4"	119

Pressure Drop/Capacity Diagram


Size	Cv GPM	Kv m ³ /hr
1" / DN 25	12	10.25
1.5" / DN 40	52	44.5
2" / DN 50	63	54
2.5" / DN 65	64	54.7
3" / DN 80	156	133
4" / DN 100	111	95

Dimensions
Dimension ISO (mm)
Butt-Weld

Dimensions	1"	1½"	2"	2 ½"	3"	4"
A	95	95	103	112	126	137
B	51	64	77	91	119	129
OD	25.4	38.1	50.8	63.5	76.2	101.6
ID	22	35	48	60	73	98

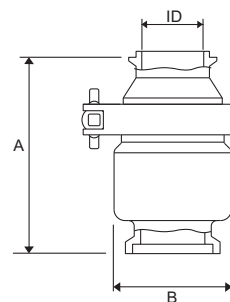

Sanitary Clamp

Dimensions	1"	1½"	2"	2 ½"	3"	4"
A	95	95	103	112	126	137
B	51	64	77	91	119	129
ID	22	35	48	60	73	98

I-Line

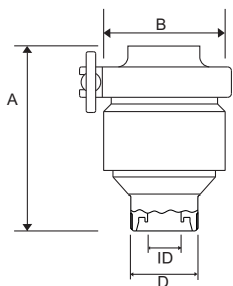
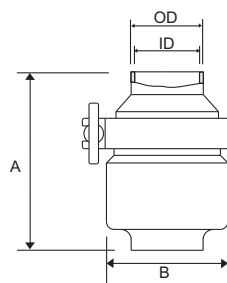
Dimensions	1"	1½"	2"	2 ½"	3"	4"
A	108	108	122	131	141	162
B	51	64	77	91	119	129
ID	22	35	48	60	73	98

* Consult the factory for I-line Male x Male
or I-line Female x Female "A" Dimensions.



Dimension DIN (mm)
Butt-Weld

Dimensions	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100
A	95	95	103	112	126	137
B	51	64	77	91	119	129
OD	29	41	53	70	85	104
ID	26	38	50	66	81	100


Male x Male

Dimensions	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100
A	105	105	113	122	136	147
B	51	64	77	91	119	129
D	52 x 1/6 Thd	65 x 1/6 Thd	78 x 1/6 Thd	95 x 1/6 Thd	110 x 1/6 Thd	130 x 1/6 Thd
ID	26	38	50	66	81	100



64 Series Check Valve Ordering System

