



PT. SINAR CENDANA ABADI JAYA

Your Trusted Industrial Supplier Partner





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ABOUT US

PT Sinar Cendana Abadi Jaya adalah perusahaan importir dan distributor selang industri, valves, fittings, serta aksesoris pendukung yang berlokasi di Jakarta Pusat, Indonesia. Kami telah menjadi mitra terpercaya bagi berbagai sektor industri seperti manufaktur, pertambangan, minyak dan gas, konstruksi, hingga pangan di seluruh Indonesia.

Kami berkomitmen untuk menyediakan produk berkualitas tinggi dengan ketersediaan stok yang lengkap, harga yang kompetitif, dan layanan profesional. Fokus kami adalah memberikan solusi yang tepat bagi kebutuhan industri pelanggan, sehingga proses operasional dapat berjalan lebih efisien dan andal.

***PT Sinar Cendana Abadi Jaya** is an importer and distributor of industrial hoses, valves, fittings, and related accessories based in Central Jakarta, Indonesia. With we have earned the trust of various industries including manufacturing, mining, oil & gas, construction, and food & beverage across Indonesia.*

We are committed to delivering high-quality products with complete stock availability, competitive pricing, and professional service. Our mission is to provide reliable industrial solutions that support our clients' operations with efficiency and excellence.



Hydraulic Hose

Used to transport hydraulic fluid under high pressure between pumps, cylinders, valves and actuators in hydraulic systems. Its benefit is providing flexible, durable connections that maintain system pressure and absorb vibration.

Fuel Oil Hose

Designed for transferring fuel oils, gasoline, diesel, and other hydrocarbon fuels in vehicles, refueling systems, or storage facilities. It offers good resistance to fuel, heat, and aging, and ensures leak-free transfer under varying operating conditions.



Oil Suction Delivery Hose

Used for both suction (drawing fluid) and delivery (pushing fluid) of oils, lubricants, and low-viscosity petroleum products. It is capable of withstanding vacuum conditions (to avoid collapse) as well as moderate pressure.

Water Suction Delivery Hose

Used for suction and delivery of water. Constructed with water-resistant elastomers or rubber, reinforced to prevent collapse under vacuum and to handle pressure. It supports agricultural irrigation, dewatering, firefighting, and general water transfer.



Chemical Suction Delivery Hose

Intended for handling a wide range of chemicals under suction or pressure. It offers chemical compatibility, resistance to degradation, and structural integrity under vacuum and pressure. Safe transfer of corrosive fluids without corrosion, leakage or hose failure.

Food-grade Suction Delivery Hose

Designed for transferring food, beverage, dairy, edible oils, or potable liquids under suction or pressure. Made of food-grade certified inner linings, with reinforcement layers and hygienic outer covers. It ensures sanitary, safe fluid transfer for food and beverage industries without contamination.



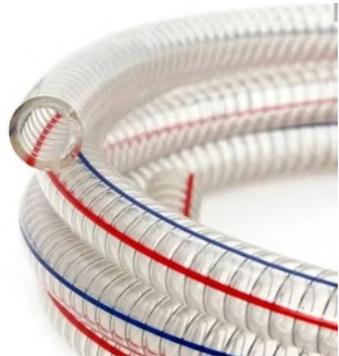


Cement Suction Delivery Hose

Used for suctioning and pumping cement, grout, mortar, or concrete slurries. Designed to resist abrasion, clogging, and maintain vacuum integrity. Reliable material handling in heavy civil works, reducing wear and downtime.

PVC Spring Hose

A flexible hose with a PVC body reinforced by an embedded steel spring helix, used for light pressure, air, dust, or general fluid transfer. Cost-effective, flexible transfer of air, dust, water or light fluids with structural support.



Flexible Metal Hose

Used where metal-level heat, pressure, or durability is required (e.g. steam, high temperature fluids, cryogenics, gas pipelines). It can handle high temperature, high pressure, and is chemically inert, with high fatigue life.



Composite Hose

Used for chemical, petroleum, liquefied gases, in-plant transfer, tank truck loading/unloading. It allows full vacuum operation and positive pressure. Very lightweight relative to metal hose, excellent flexibility, chemical resistance, and suitability for loading/unloading operations.



Teflon Hose

Used for aggressive chemical, high temperature, or ultra-clean fluid transfer where inertness is essential. Inner tube is made of PTFE (polytetrafluoroethylene). It resists most chemicals, has a wide temperature range, low friction, and non-stick properties.

Sandblast Hose

Designed for conveying abrasive media like sand, grit, shot in blasting processes under pressure. Built to resist damage from high-velocity particles, crushing, and wear. Reliable delivery of abrasive materials without premature failure in blasting operations.





PVC Spiral Suction Hose

Used for suction applications with air, water, or light granular materials. Made from flexible PVC tubing reinforced with a rigid helix. It resists collapse under vacuum and is lightweight.

PVC Clear Hose

Clear PVC tubing used for low-pressure fluid transfer, beverage lines, laboratory use, or water lines. Made from flexible PVC material without heavy reinforcement. The benefit is visibility of flow, economical, flexibility and ease of use in light-duty applications.



PVC Braided Hose

Used in applications needing more pressure resistance than clear PVC tubing, such as water lines, air lines, light pneumatic systems. Constructed of PVC reinforced with braided fibers. This gives better strength and kink resistance over plain PVC.



PVC High-Pressure Spray Hose

Intended for pressure spraying tasks (e.g. pressure washers). Built with high-strength PVC compounds and multi-layer reinforcement to stand pressure. It resists kinking abrasion, and UV.



Anti-moss Garden Hose

Garden watering hose treated or constructed to resist moss, algae or growth in the interior. Used in garden irrigation, outdoor watering. Keeps water flow clean over time, reduces internal biofouling, and maintains smooth flow.

Polyurethane (PU) Ducting Hose

Flexible ducting used for air, dust, fume, ventilation in workshops, industrial vacuum systems. It is lightweight, abrasion resistant, extremely flexible and has low memory. Long life under repeated bending, good for dust collection and ventilation.





PVC Food-Grade Hose

Designed for safe transfer of potable water, beverages, and liquid food products. The braided type is reinforced with polyester fibers for higher pressure resistance, while the spring hose has an embedded steel or plastic helix to withstand suction and prevent collapse.



Silicone Food-Grade Hose

Ideal for transferring hot or cold food, dairy, pharmaceutical, and cosmetic products. They resist high temperatures, remain flexible, and do not impart taste or odor to the media. Smooth inner surfaces prevent bacterial growth and allow easy sterilization.

Fire Hose

A high-pressure hose used to deliver water/foam for firefighting applications. Typically constructed with a synthetic rubber or thermoplastic inner tube, reinforced with woven fabric, and an abrasion-resistant outer cover. Designed to handle high pressure and remain flexible for rapid deployment.





Polyurethane Tubing

Used for pneumatic systems, fluid lines in instrumentation, and air lines. Made of solid polyurethane that is flexible, abrasion-resistant, and stable. It supports moderate pressures and repeated bending.

Polyurethane Recoil Tubing

A coiled flexible polyurethane tubing that retracts when not under tension, used for pneumatic tools, air supply reels, or compact installations. Made of PU with memory to recoil, often reinforced to prevent collapse. Saves space, reduces tangling, maintains clean setup in pneumatic tool systems.



Nylon Tubing

Used for pneumatic lines, fuel lines, instrumentation, lubrication systems. Made of nylon offering good pressure rating, and stability. High strength-to-weight, good fatigue life, and stable performance under pressure.



Polyethylene (PE) Tubing

Used for low-pressure fluid transfer (water, chemicals, irrigation, drain lines). Made of polyethylene, often HDPE or LDPE, flexible but moderately stiff.



Unsplit Corrugated Hose

A continuous corrugated flexible hose, used for full sealing ducting, exhaust, flexible conduits, cable protection. The corrugations allow bendability while maintaining strength.

Split Corrugated Hose

Corrugated hose with a split along its length, used for retrofit cable protection or covering existing lines, wiring, or pipes without disconnecting them. Easy installation over existing lines, protecting and bundling while allowing flexibility and service access.





Ball Valve

A quarter-turn shut-off valve using a spherical ball with a drilled hole to control flow. Made of brass, stainless steel, carbon steel, or plastic bodies. It offers tight sealing, and fast operation with minimal leakage even after long idle periods.

Gate Valve

A linear-motion valve that lifts/lowers a gate to open/close the flow path. Made of cast iron, ductile iron, steel, stainless steel, or bronze. It is best used for on/off control (isolation), not for throttling.



Check Valve

A valve that allows flow in one direction only, preventing backflow automatically. Materials vary by service (metals, plastics, elastomers) for pressure and media compatibility. Protects pumps, compressors, and piping systems against reverse-flow damage.



Butterfly Valve

A quarter-turn valve with a flat disc (butterfly) mounted on a central shaft; rotating the disc opens or blocks flow. Used in large diameter pipelines, HVAC, waterworks, and process industries due to its lighter weight and lower cost. Made of cast iron, ductile iron, stainless steel, or plastic.



Globe Valve

A valve with a movable disc, controlling flow by the disc moving onto or off the seat. Made of cast steel, stainless steel, or bronze, with internal trim for sealing. Designed for regulating or throttling flow in pipelines with good control over flow rate.

Foot Valve

A check valve installed at the suction (inlet) side, often with a strainer, to maintain prime in suction lines (e.g., pump intakes). It allows fluid to flow into the pump but prevents backflow that would drain the line. Made of brass, stainless steel, or cast iron with elastomer seals.





Camlock

A quick-connect coupling system allowing fast connection or disconnection of hoses and piping. Made of aluminum, stainless steel, brass, polypropylene or acetal. Useful in petroleum, chemical, agricultural, or industrial fluid transfer where frequent coupling is required.

Sleeve / Ferrule

Used in compression fittings: when a nut is tightened, the ferrule is compressed onto the tubing to create a seal and grip. Made of brass, copper, or stainless steel. Used in pneumatic, hydraulic, instrumentation lines, or refrigeration tubing to join tubing without soldering or welding.



Pneumatic Fitting

Connectors for compressed air or gas lines (e.g. push-to-connect, threaded, elbow, tee fittings). Usually made from brass, nickel-plated brass, stainless steel, or engineering plastics. Used in pneumatic automation, air tools, control systems to route, branch or join air lines.



Hose Clamps

Mechanical bands (galvanized steel or stainless steel) used to secure a hose over a fitting or barb, ensuring a tight seal. They come in worm drive, ear type, T-bolt, and spring types. Applied in plumbing, automotive, HVAC, and fluid systems to prevent hose blow-off under pressure. Reliable, simple, adjustable fastening, and reusability in many cases.



King Nipple

A short tubular fitting (usually male on both ends) used to extend or connect two female threaded parts, often in plumbing or pipe systems. Made of brass, carbon steel, stainless steel, or galvanized steel. Useful for inserting into tight spaces or joining pipes without changing orientation.

Hose Mender

A barbed or corrugated connector used to splice two hoses or repair a cut hose by inserting a fitting into hose ends. Made of brass, plastic or stainless steel. Used in garden hoses, pneumatic lines, irrigation, or low-pressure fluid systems. Quick repair or extension of hoses without replacing entire length.





Brass Fittings



Brass fittings / nipples are commonly used in plumbing, air, fuel, gas, and low-medium pressure fluid systems, available in many forms (elbows, tees, couplings, nipples, reducers). Brass is resistant to rust, provides good sealing, with long service life, and cost-effectiveness with easy installation and reliable sealing.

Galvanized Steel Fittings

Fittings/nipples (elbows, tees, reducers, couplings) made of carbon steel coated with zinc galvanization to resist corrosion. Used in water supply, sprinklers, structural, or general-purpose piping systems.



Stainless Steel Fittings

Pipe and hose fittings/nipples made from stainless steel, offering corrosion resistance and strength. Used in food, pharmaceutical, chemical, marine, or aggressive-environment piping systems. Exceptional durability, hygiene (easy cleaning), resistance to high temperature and chemical corrosion.





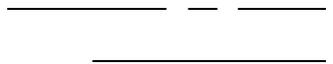
Flange

A flat disc or ring with bolt holes that joins sections of pipe, valves or equipment by bolting together with gaskets in between. Made of carbon steel, stainless steel, alloy, or ductile iron. Allows easy assembly, disassembly, maintenance access, and strong, leak-tight connections in piping systems.



Hydraulic Coupling

High-pressure connectors that allow hydraulic lines to be quickly connected or disconnected. Made from alloy steel, stainless steel, or brass with sealing. Used in hydraulic circuits for machinery, mobile equipment, and process systems. Minimal fluid loss on disconnection, safe rapid changeover of hydraulic lines, and ability to lock securely.





NO	Nama	Deskripsi	Keterangan	Options:	Performance Features
A	CHECK VELVE				
1	Serie DBS	<p>Slip-On Duckbill Check Valve Prevents Backflow at the End of a Pipe</p> <p>The series DBS rubber check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids. The valve consists of an elastomer duckbill with a slip-on connection. This simple rugged design eliminates the mechanical parts which can wear and jam in conventional check valves.</p>		<p>Sleeve Elastomer</p> <p>316 Stainless steel pipe clamps</p>	<p>Low pressure drop</p> <p>Corrosion resistant</p> <p>Frost proof</p> <p>Silent operation</p>
2	Series DBF	<p>Flanged Duckbill Check Valve Prevents Backflow at the End of a Pipe</p> <p>The series DBF rubber check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids. The valve consists of an elastomer duckbill with a flanged connection. The back up flange is galvanized carbon steel, with 304 or 316 stainless steel as options. This simple rugged design eliminates the mechanical parts which can wear and jam in conventional check valves. They are available in a variety of elastomers.</p>		<p>Sleeve Elastomer</p> <p>316 Stainless steel back up flanges</p>	<p>Low pressure drop</p> <p>Corrosion resistant</p> <p>Frost proof</p> <p>Silent operation</p>
3	Series DBCP	<p>Flanged Inline Duckbill Check Valve Prevents Backflow Inside the Pipe Line</p> <p>The series DBCP in-line check valve is a simple, reliable, cost effective method of backflow prevention. The series DBCP check valve is designed to be installed between two mating flanges. The simple maintenance-free elastomer with a flanged connection eliminates the mechanical parts which can wear and jam in conventional check valves. For installation at the end of pipe line, the valve can be ordered with optional back up flanges.</p>		<p>Sleeve Elastomer</p> <p>Back up Flange available for service at the end of pipe line</p>	<p>Low pressure drop</p> <p>Frost proof</p> <p>Silent operation</p> <p>Corrosion resistant</p>
4	Series DBRS	<p>Reverse Slip-In Duckbill Check Valve Prevents Backflow Inside the Pipe Line</p> <p>The series DBRS slip-in check valve, like the series DBCP, offers a cost effective method of backflow prevention. It is designed for installation inside of a non-flanged pipe secured by expanding band clamp. The series DBRS slip-in check valve eliminates the mechanical parts which can wear and jam in conventional check valves.</p>		<p>Sleeve Elastomer</p> <p>316 Stainless steel expanding band clamp</p>	<p>Low pressure drop</p> <p>Frost proof</p> <p>Silent operation</p> <p>Corrosion resistant</p>
5	Serien DBMJ	<p>Flanged Fully Enclosed Duckbill Check Valve Prevents Backflow Inside the Pipe Line Cast Iron Enclosure</p>			



The series DBMJ check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids. The valve consists of an elastomer duckbill type check valve inside an iron housing. This simple rugged design eliminates the mechanical parts which can wear and jam in conventional check valves. They are available in a variety of elastomer compounds, with a grey iron housing.

6 Serien DBMJF **Flanged Fully Enclosed Duckbill Check Valve**
Prevents Backflow Inside the Pipe Line
Carbon Steel Fabricated Enclosure

The series DBMJ-F check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids. The valve consists of an elastomer duckbill type check valve inside a steel housing. This simple rugged design eliminates mechanical parts which can wear and jam in conventional check valves. They are available in a variety of elastomer compounds, with a carbon steel fabricated housing.

7 Series ILCV **ILCV In-Line Check Valve**

The In-Line CV slip-in check valve offers cost effective backflow prevention. Its low cracking pressure (1" to 2" above back pressure) combined with high-flow capacity (4x that of conventional slip-in duckbill valves) eliminates upstream flooding. Provides quick drainage during high flow conditions. The series In-Line CV slip-in check valve eliminates mechanical parts which can wear and jam in conventional

Frost proof

 Silent operation
 Corrosion resistant
 High Flow Capacity
 Low pressure drop
 Cracking Pressure = 1" to 2"

Neoprene or EPDM
 304 or 316 Stainless Steel

Series WCV **Wafer Style Check Valve**
Flange Bolts Directly to Pipe Flange
Ideal for Strictly Fluid Applications

The Wafer-style series WCV Check valve is an entirely new valve design specifically engineered for water application. The WCV Check valve operates solely on line pressure and back pressure to open and close, no outside energy source is required. As line pressure builds, the elastomeric flapper disc is pushed away, allowing the water to pass. The memory of the rubber will cause the flapper disc to return flat, and back pressure will seal the flapper against the plate to prevent backflow. The WCV Check valve is designed to be inserted between two mating flanges.

Installation: For horizontal pipe, orient the center rib in vertical position as shown below. For vertical pipe, WCV check valve shall be installed for 'Flow Up'



Series DBS

Slip-On Check Valve

The series DBS rubber check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids.

The valve consists of an elastomer duckbill with a slip-on connection. This simple rugged design eliminates the mechanical parts which can wear and jam in conventional check valves.

Performance Features:

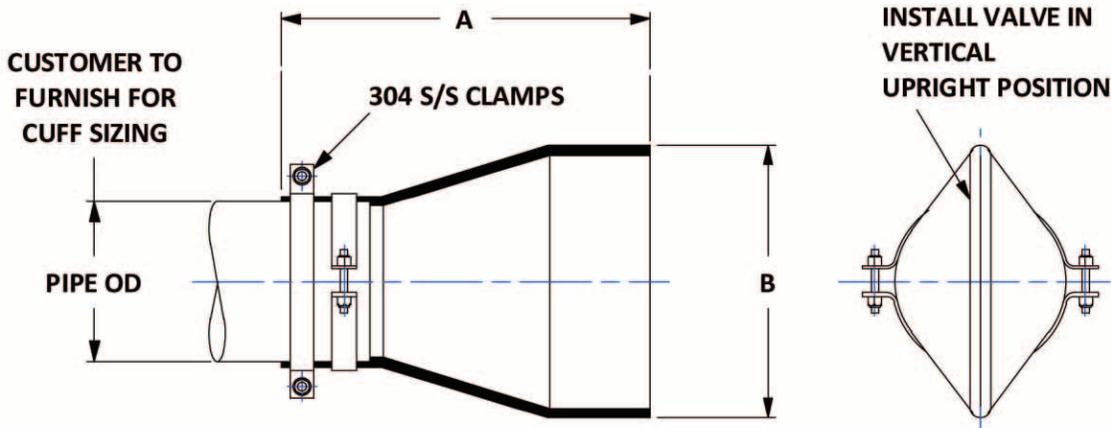
- Low pressure drop.
- Corrosion resistant
- Frost proof
- Silent operation.

Options:

- Sleeve Elastomer
- 316 Stainless steel pipe clamps



Standard Duckbill Design : P2 Max = 25 feet head.
For available Higher pressure, consult factory.



All dimensions are in inches. Weights are in Lbs.

Size	1	1.5	2	2.5	3	4	5	6	8	10	12	14
A	3.00	6.00	6.00	8.00	8.50	12.00	14.00	16.00	19.25	25.00	26.25	31.50
B	2.00	3.50	4.00	5.00	6.25	7.75	11.00	13.00	15.25	19.00	23.00	25.50
Wt, lb	3	4	5	8	10	15	17	20	25	35	60	75

Size	16	18	20	24	30	36	42	44	48	54	60	
A	36.50	40.00	44.00	49.00	66.00	73.25	76.00	76.00	77.50	97.00	100.00	
B	29.00	32.00	37.00	43.00	56.00	63.00	73.00	73.00	79.50	97.00	97.00	
Wt, lb	120	140	300	400	550	850	950	1,125	1,300	1,700	1,700	

Valve dimensions above are valid for standard pipe diameters only.
Dimensions are subject to change without notice.



Series DBF

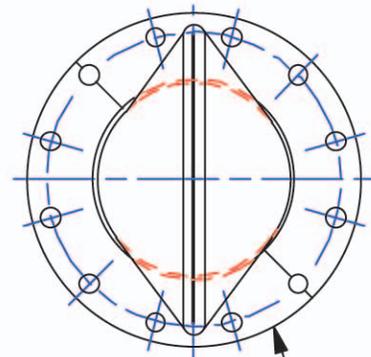
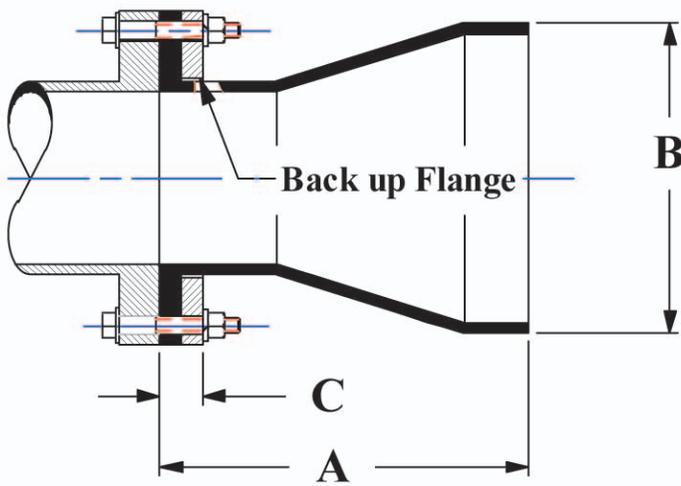
Flanged Check Valve

The series DBF rubber check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids.

The valve consists of an elastomer duckbill with a flanged connection. The back up flange is galvanized carbon steel, with 304 or 316 stainless steel as options. This simple rugged design eliminates the mechanical parts which can wear and jam in conventional check valves. They are available in a variety of elastomers.



Standard Duckbill Design : P2 Max = 25 feet head.
For available Higher pressure, consult factory.



Flange is 125 Lb.
ANSI Standard
Flat Face.

All dimensions are in inches. Weights are in Lbs.

SIZE	1	1.5	2	2.5	3	4	5	6	8	10	12	14
A	3.00	6.37	6.37	7.50	9.25	12.75	18.00	16.75	20.00	25.00	26.25	31.50
B	2.00	3.50	4.00	5.00	6.25	7.87	11.00	13.00	14.25	19.00	23.00	25.50
C	0.75			0.87	1.12				1.62			
Wt, lb	3	4	5	8	10	15	17	20	25	35	60	75

SIZE	16	18	20	24	30	36	42	44	48	54	60
A	32.25	38.25	44.00	49.00	60.00	65.00	66.00	72.00	73.50	97.00	100.00
B	29.00	31.50	36.00	43.00	56.00	63.00	76.00	76.00	79.50	97.00	97.00
C	1.62		1.75	1.75	1.75	2.00				2.50	
Wt, lb	120	200	300	400	600	900	1,000	1,200	1,400	1,800	

Dimensions are subject to change without notice.



Series DBCP

In - Line Check Valve

The series DBCP in-line check valve is a simple, reliable, cost effective method of backflow prevention. The series DBCP check valve is designed to be installed between two mating flanges.

The simple maintenance-free elastomer with a flanged connection eliminates the mechanical parts which can wear and jam in conventional check valves. For installation at the end of pipe line, the valve can be ordered with optional back up flanges.

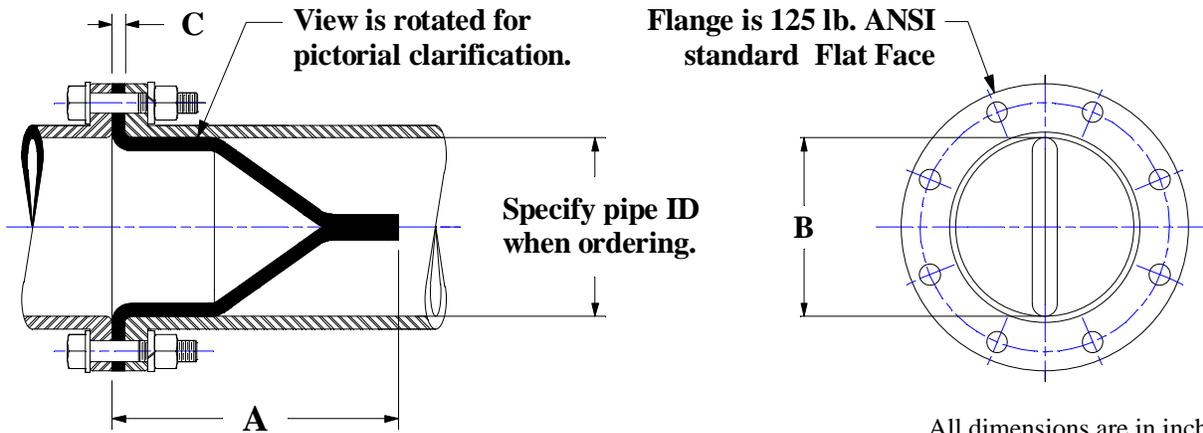


Performance Features:

- Low pressure drop
- Frost proof
- Silent operation
- Corrosion resistant

Options:

- Sleeve Elastomer
- Back up Flange available for service at the end of pipe line



All dimensions are in inches.

SIZE	1	1.5	2	2.5	3	4	5	6	8	10
A	3.00	5.00	6.00	8.00	8.50	13.00	15.00	18.00	17.00	20.00
B	0.87	1.37	1.75	2.25	2.75	3.75	4.50	5.50	7.50	9.50
C	0.37								0.50	
Wt, lb	3	4	5	8	10	15	17	20	25	35

SIZE	12	14	16	18	20	24
A	21.00	21.00	27.00	28.00	32.00	40.00
B	11.25	12.50	14.00	16.00	18.00	22.00
C	0.50	0.62	0.75			
Wt, lb	60	75	120	200	300	400



Series DBRS

Reverse Slip-In Check Valve

The series DBRS slip-in check valve, like the series DBCP, offers a cost effective method of backflow prevention. It is designed for installation inside of a non-flanged pipe secured by expanding band clamp.

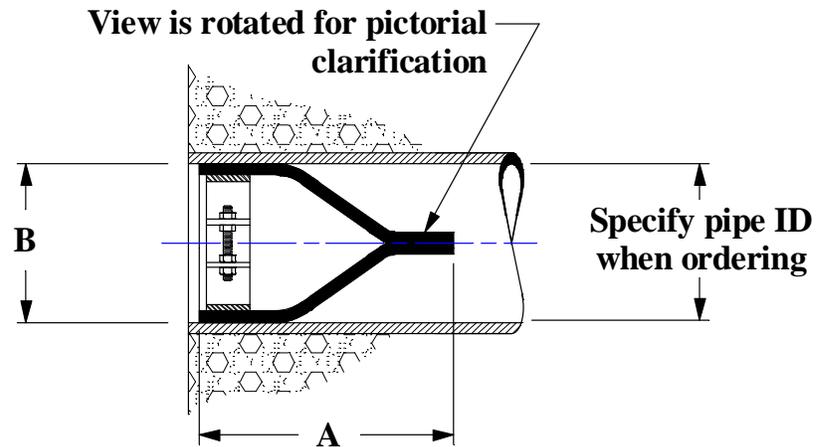
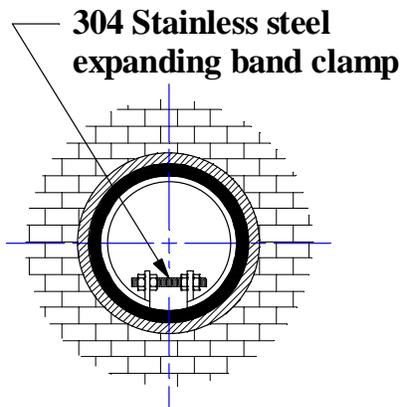
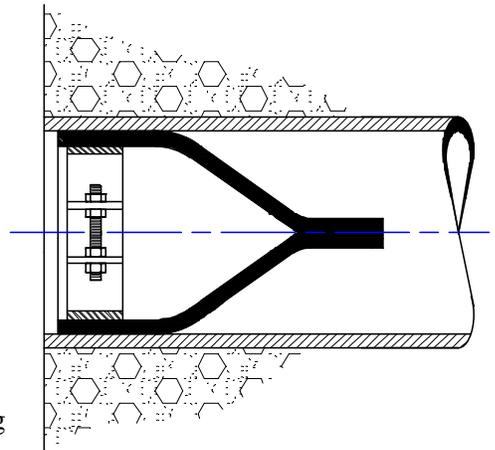
The series DBRS slip-in check valve eliminates the mechanical parts which can wear and jam in conventional check

Performance Features:

- Low pressure drop
- Frost proof
- Silent operation
- Corrosion resistant

Options:

- Sleeve Elastomer
- 316 Stainless steel expanding band clamp



All Dimensions are in Inches.

Size	2	2.5	3	4	5	6	8	10	12	14
A	6.00	6.00	8.50	12.00	15.00	15.00	17.00	19.00	20.00	20.00
B	1.87	2.25	2.75	3.75	4.75	5.75	7.62	9.62	11.50	13.50
Wt, lb	5	8	10	15	17	20	25	35	60	90

Size	16	18	20	24	30	32	36	42	48	60
A	23.00	26.00	29.00	32.00	51.00	57.00	63.00			
B	15.50	17.50	19.50	23.00	29.00	31.00	35.00			
Wt, lb	120	200	300	400	550	600	650			

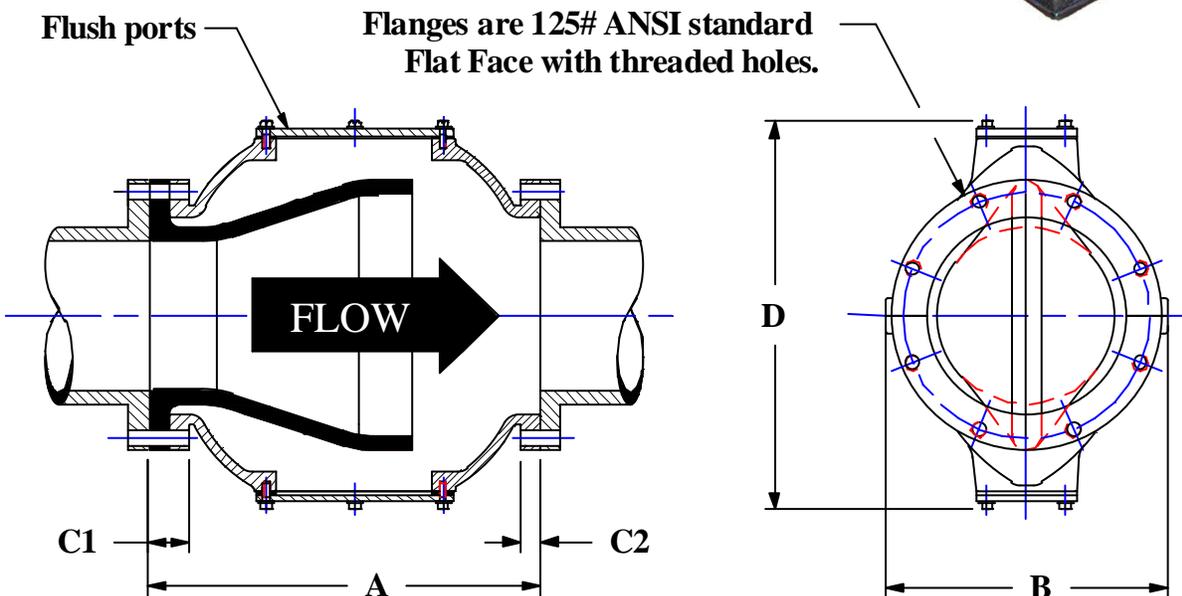
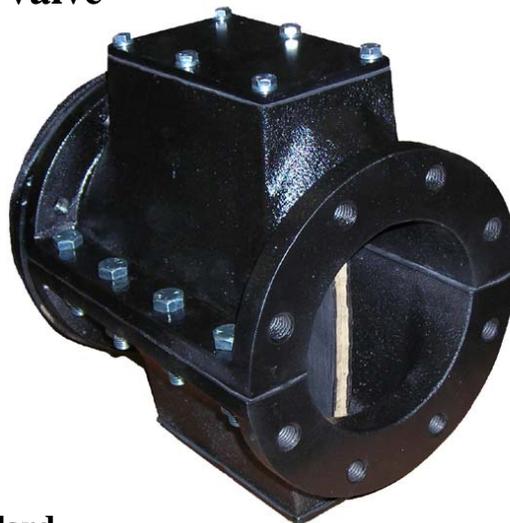


Series DBMJ

Fully Enclosed Check Valve

The series DBMJ check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids.

The valve consists of an elastomer duckbill type check valve inside an iron housing. This simple rugged design eliminates the mechanical parts which can wear and jam in conventional check valves. They are available in a variety of elastomer compounds, with a grey iron housing.



All dimensions are in inches. Weights are in lbs.

SIZE	3	4	6	8	10	12
A	11.25	11.50	14.00	19.50	24.50	27.50
B	7.75	9.00	11.50	14.00	19.00	21.50
C1	1.12	1.12	1.12	1.25		
C2	0.75	0.75	0.75	1.00		
D	9.25	12.87	16.00	19.87	23.00	25.00
Wt, lb	50	90	180	260	440	650

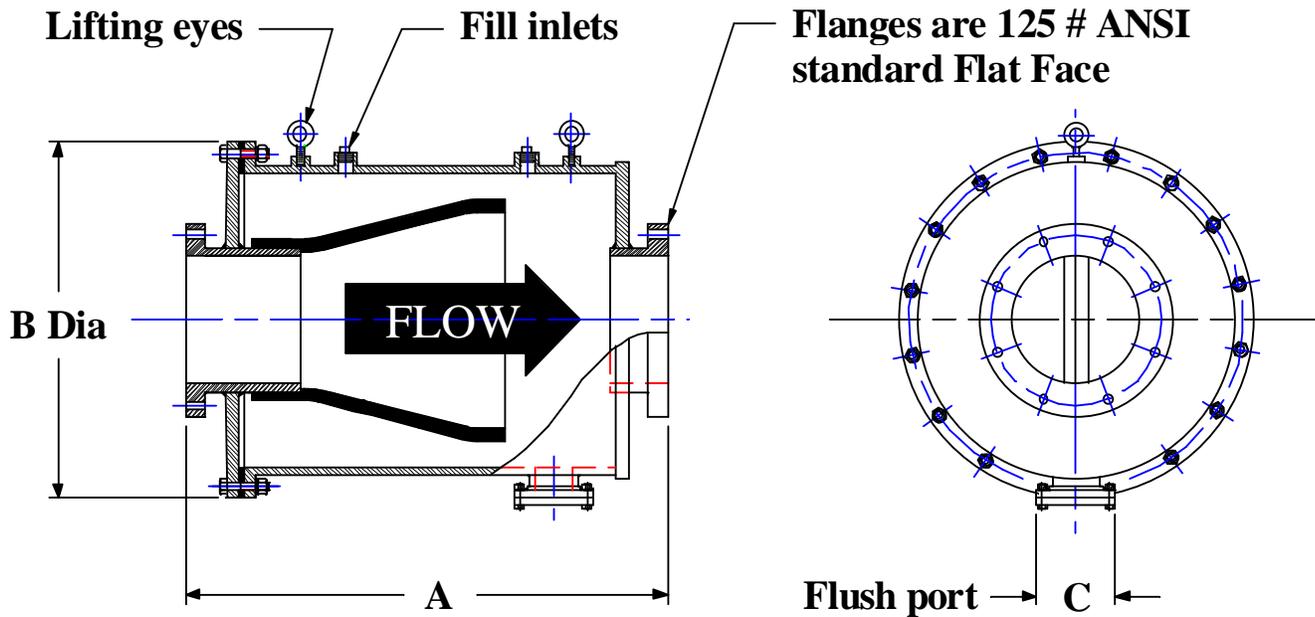


Series DBMJ-F

Fully Enclosed Check Valve

The series DBMJ-F check valve effectively ensures mono-directional flow of slurries, sewerage, sludge and other hard to handle fluids.

The valve consists of an elastomer duckbill type check valve inside a steel housing. This simple rugged design eliminates mechanical parts which can wear and jam in conventional check valves. They are available in a variety of elastomer compounds, with a carbon steel fabricated housing.



All dimensions are in inches. Weights are in Lb.

Size	14	16	18	20	24	30	36	42	48	54	60
A	35.00	47.00	45.00	50.00	60.00	70.00	85.00	90.00	100.00	110.00	120.00
B	28.00	32.00	35.00	43.00	50.00	66.00	77.00	90.00	102.00	126.00	130.00
C	3.00			6.00							
Wt, lb	800	950	1300	1800	2100	2400	3500	5000	6500	7250	9000



ONYX VALVE COMPANY

Series ILCV & ILCV-F In-Line Check Valve

Installation & Maintenance

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1.1 ILCV: Onyx In-Line Rubber Check Valve

This type of rubber check valve is designed to slip directly inside of an existing pipe with the supplied stainless steel expandable clamp or retaining ring to secure in place; it can be fastened from either the inlet or discharge end of the valve. The standard in-line check valve styles must be installed in a truly round pipe. Out of round pipe may cause distortion of the valve causing valve failure.

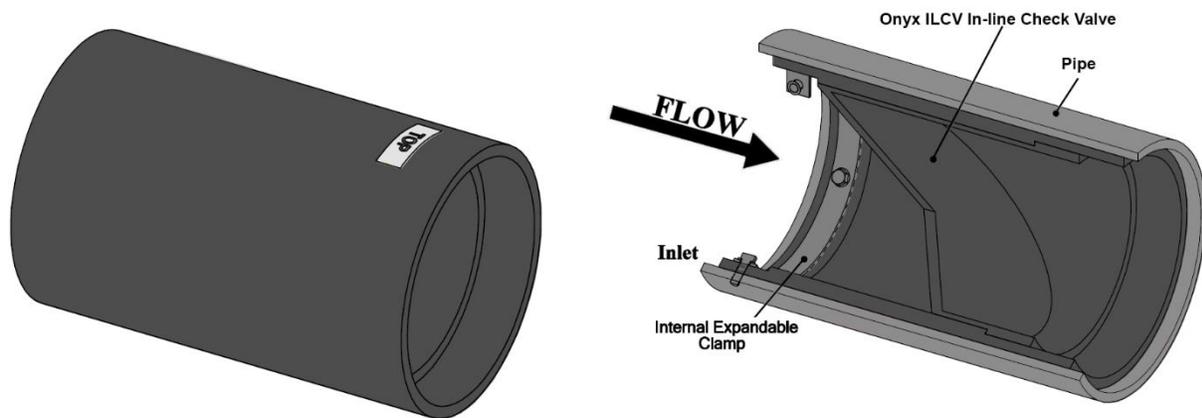


Figure 1: ILCV In-Line Rubber Check Valve

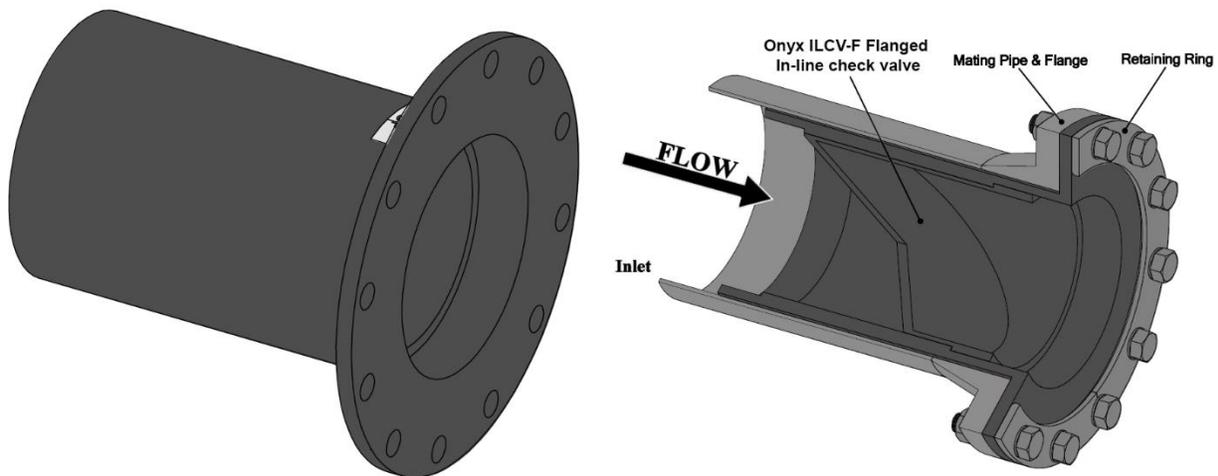


Figure 2: ILCV-F Flanged In-Line Rubber Check Valve

Note: For flanged versions of the In-Line Rubber Check Valves, the integrated rubber flange can be located on either the inlet or discharge end depending on required installation orientation.

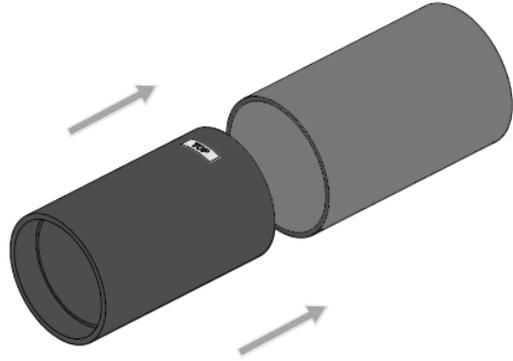


1.2 Onyx In-Line Rubber Check Valve Installation

Series ILCV Style:

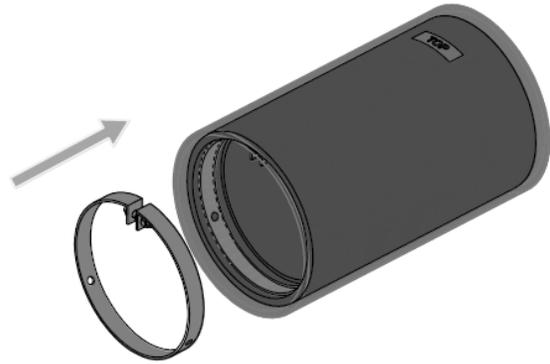
Step 1: Insert Valve

The ILCV valve must be installed in a horizontal pipe and will be supplied with a “FLOW” direction label and a “TOP” label to ensure proper installation orientation within the pipe. Insert the slip-in check valve inside the existing pipe and push until inlet/discharge end is flush with end of pipe.



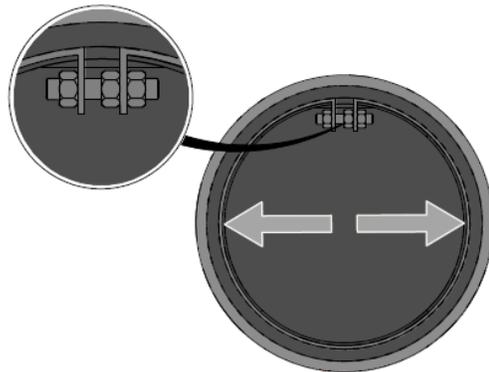
Step 2: Insert Clamp

Insert the expandable internal clamp(s) into the rubber check valve in either the inlet or discharge end depending on installation orientation and ensuring that the adjustable bolts are located at the top of the valve. When installing multiple internal expandable clamps ensure the clamps are evenly spaced/ rotated to provide even clamping pressure as well as the internal expandable fasteners located in a position that minimizes flow interference.



Step 3: Expand Clamp

Tighten the expandable internal clamp until the stainless-steel portion of the clamp has imbedded itself into the rubber of the valve. Tighten the lock nut once the internal expandable clamp is in the proper position and proceed to section for anchor bolting/pinning to anchor the slip-in check valve to the mating pipe.



Note: This style of check valve installation relies on external pressure of the internal expandable clamp to ensure that the valve does not move, care should be taken to ensure proper sealing.



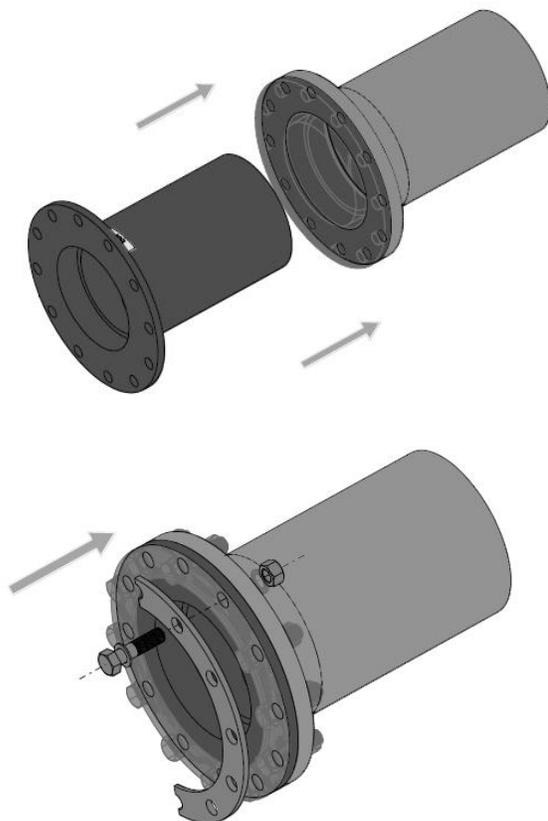
1.2 Onyx In-Line Rubber Check Valve Installation (continued)

Series ILCV-F Flanged Style:

Step 1: Insert Valve

The ILCV-F valve must be installed in a horizontal pipe and will be supplied with a “FLOW” direction label and a “TOP” label to ensure proper installation orientation within the pipe. Insert the slip-in flanged check valve inside the existing pipe and push until flanged inlet/discharge end is flush with end of pipe.

Note: ILCV-F Flanged Check Valve can be supplied with the integrated rubber flange in the inlet or discharge position depending on the required installation parameters.

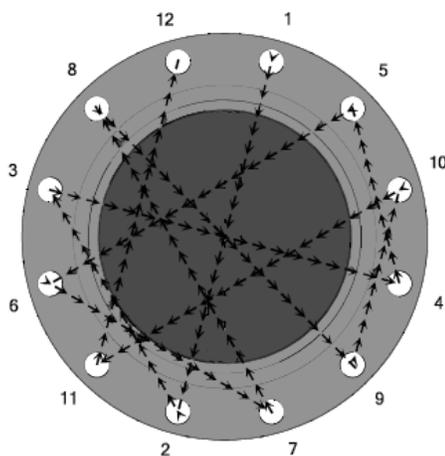


Step 2: Retaining Ring & Bolting

Attach and secure the retaining ring in place with the flange bolting hardware and proceed to Step 3 for flange bolt torquing.

Step 3: Flange Bolt Torquing

Torquing should be accomplished in steps gradually and as evenly as possible around the circumference of the flange. The bolts should be tightened in an alternating sequence similar to a star pattern shown on the figure to the right. The flange bolting is not considered tight and “locked-on” until the edges of the check valve flange bulges out or extrudes slightly. Refer to Section 1.4 for the proper ranges of torque values as well as further examples of the proper patterns used for torquing the flange bolting.



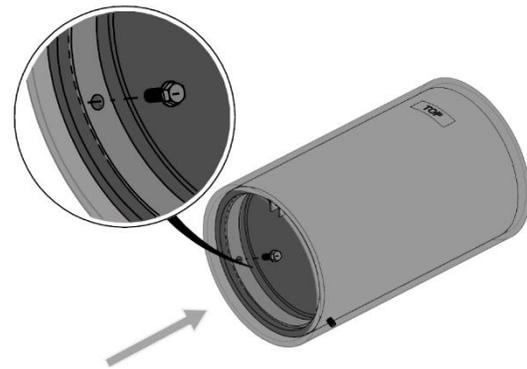
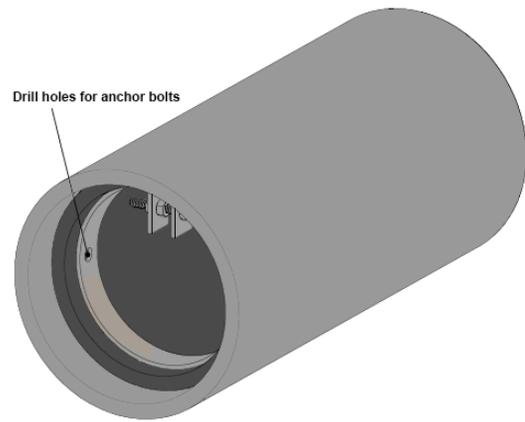
Note: Never tighten bolts on a flanged rubber check valve to the point where there is contact between the retaining ring and mating flange. This type of tightening will crush the integrated rubber flange of the check valve and cause a premature failure.



1.3 Anchor Bolts/Pins

After the Check Valve is installed, drill a hole or holes, depending on the valve size number of clamps, through the cuff of the check valve and into the mating pipe using the center hole on the clamp as a guide. Insert a bolt, which will be sufficient in length to completely travel through the clamp, valve and mating pipe. Completely weld or use some other means of ensuring that this bolt/pin will not fall out or be removed. It is imperative that the clamp and sleeve is properly lined up, so that the rubber is not under pressure due to misalignment.

Insert the Bolt/Pin through the drilled hole(s) and completely weld or use some other means of ensuring that this bolt/pin will not fall out or be removed from the internal expandable clamp.





1.4 ILCV-F Flange Bolt Torque Data

Series ILCV-F Torque Valves	
Size	Approx. Torque Values (ft/lbs)
1" thru 2"	20 - 40
2.5" thru 5"	25 - 60
6" thru 12"	35 - 140
14" thru 18"	50 - 180
20" thru 24"	60 - 200
26" thru 40"	70 - 300
42" thru 50"	80 - 300
52" thru 60"	100 - 400
66" thru 72"	200 - 500
78" thru 90"	300 - 600
96" thru 108"	400 - 700
120"	500 - 800



Series WCV Check Valve

Wafer-Style Check Valve

- The Wafer-style series WCV Check valve is an entirely new valve design specifically engineered for water application. The WCV Check valve operates solely on line pressure and back pressure to open and close, no outside energy source is required. As line pressure builds, the elastomeric flapper disc is pushed away, allowing the water to pass. The memory of the rubber will cause the flapper disc to return flat, and back pressure will seal the flapper against the plate to prevent back-flow. The WCV Check valve is designed to be inserted between two mating flanges.

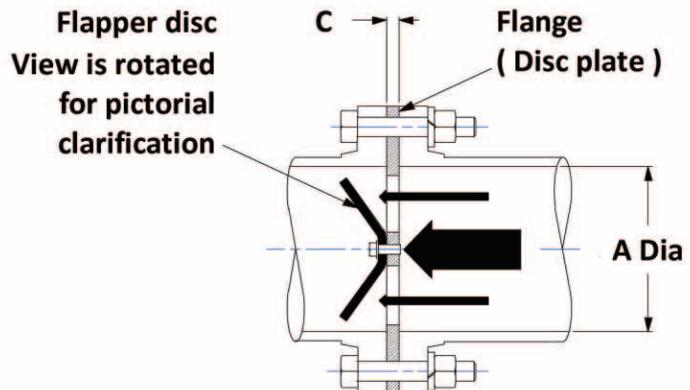
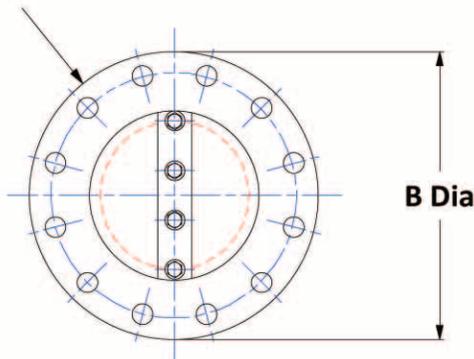


Maximum Backpressure Limits

- 0" → 3" = 175 psi
- 4" → 8" = 150 psi
- 10" → 12" = 100 psi
- 14" → 24" = 75 psi
- 30" and Larger = 50 psi

- Installation : For horizontal pipe, orient the center rib in vertical position as shown below.

Flange is 125#ANSI standard Flat Face



All dimensions are in inches.

Size	4	5	6	8	10	12	14	16	18	20	24	30	36
A	4.00	5.00	6.00	7.90	10.00	12.00	13.25	15.25	17.25	19.25	23.25	29.25	35.25
B	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	38.75	46.00
C	0.50					0.62		0.75			1.00		
Cv	225	400	575	1200	1800	2520	3200	4200	5400	7500	11000	18000	26000

Dimensions are subject to change without notice.