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## YESTERDAY

Based on a philosophy of supplying well engineered, high quality products with excellent service to our customers, *Kbi* entered the manufacturing business in 1970. We have strictly maintained that philosophy throughout the years.

## TODAY

*Kbi* has the finest in-house molding equipment available, running 24 hours a day. We operate with highly computerized, state-of-the-art office equipment, computer aided design systems, bar coding system, EDI data systems, online order entry, and toll free numbers for immediate and efficient ordering and communication. *Kbi* products are marketed through outstanding sales representatives throughout the country who provide you, our customers, with individual attention to your needs. We maintain warehouses across the U.S. to afford quick and inexpensive delivery of *Kbi* products to your door.

Our entire team works very hard to be sensitive to your business and handle it in the most efficient manner possible. *Kbi* is a source you can rely on.

## TOMORROW

*Kbi* continues to grow, expand its product line, and focus on leading technology. Our attention to you, along with our dedication to the industry assures you that *Kbi* will continue to provide world class quality and service at competitive prices to meet the growing demands of our customers.

We thank you for the opportunity of serving you and express our appreciation for your business and your support of our products over the years.



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ALL KBI PRODUCTS  
MOLDED IN U.S.A.



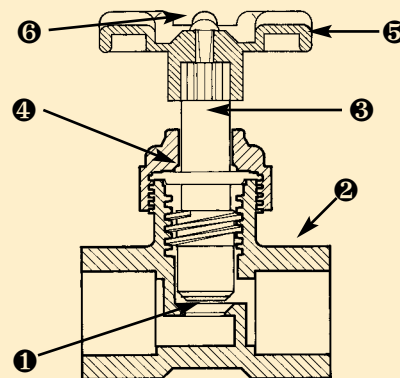


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## INFORMATION COMMON TO SMALL VALVES

1. Unique tapered stem and seat insures long, leak free life.
2. Body and bonnet made of non-corroding chemical resistant Hi-Impact Flow Guard Gold CPVC, Hi-Impact PVC, or Acetal material.
3. Tough Polypropylene stem.
4. Santoprene™ stem seal washer.
5. Impact resistant ABS handle.
6. Galvanized steel handle screw.
7. Pressure rated to 150 psi.
8. No internal metallic parts to corrode.
9. Molded in the U.S.A. by KBI.



### PVC COMPRESSION STOP VALVE



#### MODELS

1/2"	SCP-0500-S	Socket IPS x Socket IPS
3/4"	SCP-0750-S	Socket IPS x Socket IPS

- High-Impact PVC construction for use in hot or cold fluid systems up to 140°F. Use with water and approved chemicals.
- White color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.

### CPVC COMPRESSION STOP VALVE



**FLOWGUARD GOLD**

#### MODELS

1/2"	SCC-0500-S	Socket CTS x Socket CTS
3/4"	SCC-0750-S	Socket CTS x Socket CTS

- High-Impact CPVC construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Beige color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.
- Made with FlowGuard Gold material.

### ACETAL COMPRESSION STOP VALVE



#### MODELS

1/2"	SCL-0500-T	FIPT x FIPT
3/4"	SCL-0750-T	FIPT x FIPT

- Acetal copolymer construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Bronze color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.

MODELS		
1/2"	SWP-0500-S	Socket IPS x Socket IPS
3/4"	SWP-0750-S	Socket IPS x Socket IPS

- High-Impact PVC construction for use in hot or cold fluid systems up to 140°F. Use with water and approved chemicals.
- White color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Stop & Waste allows draining of the non-pressure side of valve via 1/8" port. (Polypropylene plug included).
- Complies with all applicable ASTM & ANSI standards.



MODELS		
1/2"	SWC-0500-S	Socket CTS x Socket CTS
3/4"	SWC-0750-S	Socket CTS x Socket CTS

- High-Impact CPVC construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Beige color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Stop & Waste allows draining of the non-pressure side of valve via 1/8" port. (Polypropylene plug included).
- Complies with all applicable ASTM & ANSI standards.
- Made with FlowGuard Gold material.



MODELS		
1/2"	SWL-0500-T	FIPT x FIPT
3/4"	SWL-0750-T	FIPT x FIPT

- Acetal copolymer construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Bronze color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Stop & Waste allows draining of the non-pressure side of valve via 1/8" port. (Polypropylene plug included).
- Complies with all applicable ASTM & ANSI standards.



MODELS		
1/2"	SFT-0500-T	MIPT x MHT
3/4"	SFT-0750-T	MIPT x MHT

- Acetal copolymer construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Bronze color body with black T-handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.



## PVC COMPRESSION STOP & WASTE VALVE

## CPVC COMPRESSION STOP & WASTE VALVE

## ACETAL COMPRESSION STOP & WASTE VALVE

## ACETAL SINK FAUCET

## ACETAL 45° HOSE BIBB



MODELS		
1/2"	HBH-0500-T	FIPT x MHT
3/4"	HBH-0750-T	FIPT x MHT
1/2"	HBM-0500-T	MIPT x MHT
3/4"	HBM-0750-T	MIPT x MHT

- Acetal copolymer construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Bronze color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.

## PVC 45° HOSE BIBB



MODELS		
1/2"	WHBM-0500-T	MIPT x MHT
3/4"	WHBM-0750-T	MIPT x MHT

- High-Impact PVC construction for use in hot or cold fluid systems up to 140°F. Use with water and approved chemicals.
- White color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.

## ACETAL SILLCOCK VALVE



MODELS		
1/2"	SCF-0500-T	FIPT x MHT
3/4"	SCF-0750-T	FIPT x MHT

- Acetal copolymer construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Bronze color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.

## ACETAL EVAPORATIVE COOLER VALVE



MODEL		
3/4"	ECV-0750-T	FHT x MHT

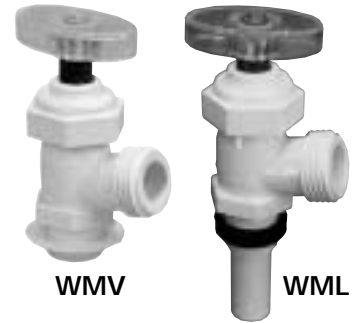
- Acetal copolymer construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Female Hose Inlet x Male Hose Outlet w/1/8" Port
- Bronze color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.

MODELS		
1/2"	WMV-0500-CH	Socket CTS x MHT
1/2"	WMV-0500-BH	Socket CTS x MHT
1/2"	WMV-0500-RH	Socket CTS x MHT
1/2"	WML-0500-CH	Spigot x MHT

- CPVC body and bonnet, Polystyrene handle and polypropylene stem with Santoprene seal.
- Complete with nylon lock ring (WMV) or nylon threaded nut (WML) to attach valve securely to valve box.
- 1/2" MHT outlet. Quick and permanent weld to CPVC pipe.
- WMV available with attractive clear (-CH), red (-RH) or blue (-BH) handle.
- Made with FlowGuard Gold material.



## CPVC WASHING MACHINE VALVES



MODEL		
1/2"	IMV-0500-CH	Socket CTS x 1/4" COMP.

- CPVC body and bonnet, Polystyrene handle and polypropylene stem with Santoprene seal.
- Complete with nylon lock ring to attach valve securely to valve box.
- Quick and permanent weld to CPVC pipe.
- Attractive clear handle.
- Brass nut and compression ferule included for installation of 1/4" tubing.
- Made with FlowGuard Gold material.



## CPVC ICE MAKER VALVE



MODELS		
1/2"	BDC-0500-S	Socket CTS x MHT
3/4"	BDC-0750-S	Socket CTS x MHT

- High-Impact CPVC construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Beige color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.
- Made with FlowGuard Gold material.



## CPVC BOILER DRAIN



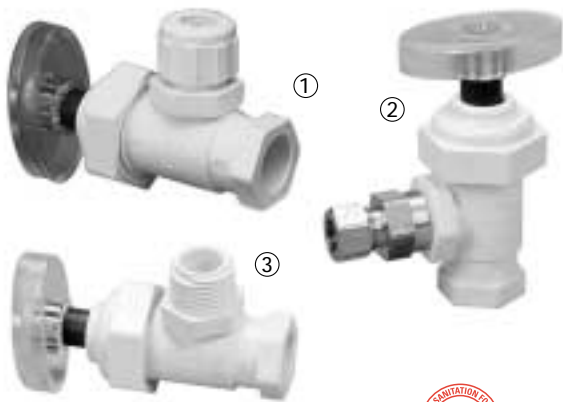
MODELS		
1/2"	BDF-0500-T	FIPT x MHT
3/4"	BDF-0750-T	FIPT x MHT
1/2"	BDM-0500-T	MIPT x MHT
3/4"	BDM-0750-T	MIPT x MHT

- Acetal copolymer construction for use in hot or cold fluid systems up to 180°F. Use with water and approved chemicals.
- Bronze color body with red wheel handle. Santoprene seal for excellent chemical resistance and long life.
- Complies with all applicable ASTM & ANSI standards.

## ACETAL BOILER DRAIN



## CPVC ANGLE SUPPLY VALVES



**FLOWGUARD GOLD®**

### MODELS

AAV-0500-CH ①	1/2" CTS Socket x 3/8" Plastic Comp.
ASV-0375-CH ②	1/2" CTS Socket x 3/8" Brass Comp.
ASV-0500-CH ③	1/2" CTS Socket x 1/2" MIPT

- 3/8" Outlet models include nut and ferule.
- Tapered non-metallic valve seat and stem insure long wear.
- Meets/exceeds all applicable ASTM and ANSI standards.
- High-impact CPVC construction for use in hot or cold fluid systems up to 180°F. Polystyrene handle and polypropylene stem with Santoprene seal.
- Made with FlowGuard Gold material.

## CPVC STRAIGHT SUPPLY VALVES



**FLOWGUARD GOLD®**

### MODELS

SAV-0500-CH ①	1/2" CTS Socket x 3/8" Plastic Comp.
SPV-0375-CH ②	1/2" CTS Socket x 3/8" Brass Comp.
SPV-0500-CH ③	1/2" CTS Socket x 1/2" MIPT

- 3/8" Outlet models include nut and ferule.
- Tapered non-metallic valve seat and stem insure long wear.
- Meets/exceeds all applicable ASTM and ANSI standards.
- High-impact CPVC construction for use in hot or cold fluid systems up to 180°F. Polystyrene handle and polypropylene stem with Santoprene seal.
- Made with FlowGuard Gold material.

## CPVC COMPRESSION TRANSITION ADAPTER



**FLOWGUARD GOLD®**

### MODELS

TCA-0500	1/2" CTS Spigot x Comp.
TCA-0750	3/4" CTS Spigot x Comp.

- Designed to connect CPVC piping to brass valves or fittings with compression connection.
- Includes EPDM washer.
- Meets/exceeds all applicable ASTM and ANSI standards.
- Made with FlowGuard Gold material.



MODELS			
MIPT		FIPT	
1/2"	TMA-0500	TFA-0500	IPS Brass x CTS Socket
3/4"	TMA-0750	TFA-0750	IPS Brass x CTS Socket
1"	TMA-1000	TFA-1000	IPS Brass x CTS Socket
1 1/4"	TMA-1250	TFA-1250	IPS Brass x CTS Socket
1 1/2"	TMA-1500	TFA-1500	IPS Brass x CTS Socket
2"	TMA-2000	TFA-2000	IPS Brass x CTS Socket

- Unique molded CPVC/brass design with internal "knurl" and EPDM O'ring insures reliability and integrity.
- Large brass hex for easy connection to IPS sized pipe and fittings.
- Patent pending design.
- Meets/exceeds all applicable ASTM and ANSI standards.
- Made with FlowGuard Gold material.

## CPVC/BRASS TRANSITION ADAPTER



MODELS	
DE-0500	1/2" Socket CTS x FIPT Brass (Brass Elbow)
DE-0500-P	1/2" Socket CTS x FIPT Brass (Plastic Elbow)

- DE-0500 utilizes forged brass body for strength.
- DE-0500-P unique molded CPVC/Brass design.
- Both models employ molded CPVC/brass technology with internal "knurl" and EPDM O'ring insuring reliability and integrity.
- Meets/exceeds all applicable ASTM and ANSI standards.
- Made with Flow GuardGold material.

## CPVC/BRASS DROP EAR ELL 90° TRANSITION ADAPTER



MODELS		
1/2"	TUC-0500	1/2" Comp x CTS
3/4"	TUC-0750	3/4" Comp x CTS
1/2"	TUF-0500	1/2" FIPT x CTS
3/4"	TUF-0750	3/4" FIPT x CTS
1/2"	TUM-0500	1/2" MIPT x CTS
3/4"	TUM-0750	3/4" MIPT x CTS

- Versatile design allows disconnection of line.
- Utilizes TCA-0500/0750 CPVC adapter.
- Three models for every application.
- Meets/exceeds all applicable ASTM and ANSI standards.
- Made with FlowGuard Gold material.
- EDM high quality washer insures sure seal.

## CPVC/BRASS TRANSITION UNION



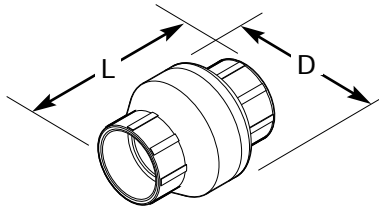
# INFORMATION COMMON TO ALL CHECK VALVES

1. Solid 18-8 (302 series) stainless steel springs and valve stems, with EPDM seals on Spring Checks. Swing Checks have EPDM seals and no metallic parts.
2. Units have lower flow loss restrictions than most check valves. (see page 25)
3. All valves made from superior strength Hi-Impact PVC type II material and meet/exceed ASTM and ANSI standards.
4. Working pressure 150 psi @ 73°.
5. Superior design resulting in a more compact valve that is easier to install.
6. All KC, KCC, KC2, and KJV models are equipped with Poppet-Stop™, which eliminates poppet vibration in high GPM applications. Also Poppet-Stop™ prevents damage due to hard pump start-up or water hammer.

## SWING CHECK VALVE



DIMENSIONS		
Size	(L)	(D)
1/2"	4.6"	2.9"
3/4"	4.6"	2.9"
1"	4.6"	2.9"
1 1/4"	5.1"	3.5"
1 1/2"	5.4"	3.5"
2"	6.2"	4.3"



MODELS		
Size	Socket x Socket	FIPT x FIPT
1/2"	KSC-0500-S	KSC-0500-T
3/4"	KSC-0750-S	KSC-0750-T
1"	KSC-1000-S	KSC-1000-T
1 1/4"	KSC-1250-S	KSC-1250-T
1 1/2"	KSC-1500-S	KSC-1500-T
2"	KSC-2000-S	KSC-2000-T

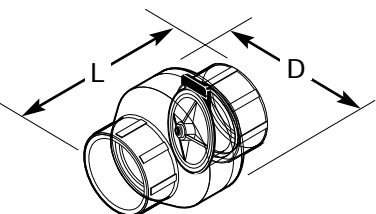
**USES:** Especially useful in systems where fluid is corrosive or contains debris: industrial waste disposal, sewage, etc. EPDM swing gate lifts to provide unobstructed flow. There are no internal metallic parts to corrode. Only 1/2 pound back pressure is required for complete closure.

- Made of High-Impact PVC Type II material.
- Swing Check flow loss insignificant due to full flow design.
- Complies with all applicable ASTM & ANSI standards.
- Swing Check is not recommended to be installed with outlet side angled down or facing down.

## SWING CHECK VALVE (CLEAR)



DIMENSIONS		
Size	(L)	(D)
1/2"	4.6"	2.9"
3/4"	4.6"	2.9"
1"	4.6"	2.9"
1 1/4"	5.1"	3.5"
1 1/2"	5.4"	3.5"
2"	6.2"	4.3"



MODELS		
Size	Socket x Socket	FIPT x FIPT
1/2"	KSCC-0500-S	KSCC-0500-T
3/4"	KSCC-0750-S	KSCC-0750-T
1"	KSCC-1000-S	KSCC-1000-T
1 1/4"	KSCC-1250-S	KSCC-1250-T
1 1/2"	KSCC-1500-S	KSCC-1500-T
2"	KSCC-2000-S	KSCC-2000-T

**USES:** Especially useful in systems where fluid is corrosive or contains debris: industrial waste disposal, sewage, etc. EPDM swing gate lifts to provide unobstructed flow. There are no internal metallic parts to corrode. Only 1/2 pound back pressure is required for complete closure.

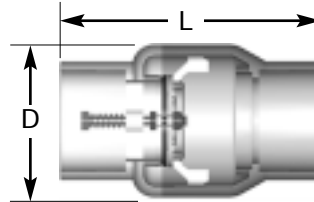
- Made with Clear Type I PVC.
- Swing Check flow loss insignificant due to full flow design.
- Complies with all applicable ASTM & ANSI standards.
- Swing Check is not recommended to be installed with outlet side angled down or facing down.

MODELS		
Size	Socket x Socket	FIPT x FIPT
1/2"	KC-0500-S	KC-0500-T
3/4"	KC-0750-S	KC-0750-T
1"	KC-1000-S	KC-1000-T
1 1/4"	KC-1250-S	KC-1250-T
1 1/2"	*KC-1500-S	KC-1500-T
2"	*KC-2000-S	KC-2000-T

USES: Any system where back flow is not desired. Spas, swimming pools, industrial and irrigation.

- 1/2 pound spring gives positive seal with no back pressure
- Complies with all applicable ASTM & ANSI standards.
- Made of High-Impact PVC Type II material.
- Reinforced Poppet For More Strength.
- UL recognized spa component. (\*)

## 1/2 LB SPRING CHECK VALVE



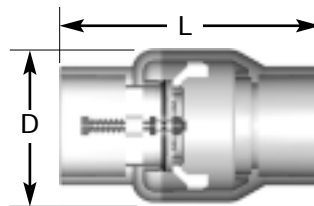
DIMENSIONS		
Size	(L)	(D)
1/2"	3.2"	1.6"
3/4"	3.7"	1.8"
1"	4.2"	2.2"
1 1/4"	5.2"	3.0"
1 1/2"	5.5"	3.0"
2"	6.1"	3.6"

MODELS		
Size	Socket x Socket	FIPT x FIPT
1/2"	KCC-0500-S	KCC-0500-T
3/4"	KCC-0750-S	KCC-0750-T
1"	KCC-1000-S	KCC-1000-T
1 1/4"	KCC-1250-S	KCC-1250-T
1 1/2"	*KCC-1500-S	KCC-1500-T
2"	*KCC-2000-S	KCC-2000-T

USES: Any system where back flow is not desired. Spas, swimming pools, industrial and irrigation.

- 1/2 pound spring gives positive seal with no back pressure
- Complies with all applicable ASTM & ANSI standards.
- Made of Clear PVC Type I material.
- Reinforced Poppet For More Strength.
- UL recognized spa component. (\*)

## 1/2 LB SPRING CHECK VALVE (CLEAR)



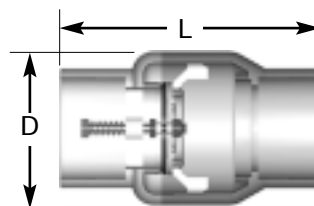
DIMENSIONS		
Size	(L)	(D)
1/2"	3.2"	1.6"
3/4"	3.7"	1.8"
1"	4.2"	2.2"
1 1/4"	5.2"	3.0"
1 1/2"	5.5"	3.0"
2"	6.1"	3.6"

MODELS		
Size	Socket x Socket	FIPT x FIPT
1/2"	KC2-0500-S	KC2-0500-T
3/4"	KC2-0750-S	KC2-0750-T
1"	KC2-1000-S	KC2-1000-T
1 1/4"	KC2-1250-S	KC2-1250-T
1 1/2"	KC2-1500-S	KC2-1500-T
2"	KC2-2000-S	KC2-2000-T

USES: Any system where back flow is not desired. Spas, swimming pools, industrial and irrigation.

- 2 pound spring for greater open pressure.
- Complies with all applicable ASTM & ANSI standards.
- Made of High-Impact PVC Type II material.
- Reinforced Poppet For More Strength.

## 2 LB SPRING CHECK VALVE

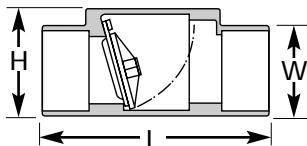


DIMENSIONS		
Size	(L)	(D)
1/2"	4.4"	2.2"
3/4"	4.4"	2.2"
1"	4.2"	2.2"
1 1/4"	5.2"	3.0"
1 1/2"	5.5"	3.0"
2"	6.1"	3.6"

## LOW PROFILE SWING CHECK VALVE



DIMENSIONS			
Size	L	H	W
1/2"	5.39	2.18	1.70
3/4"	5.39	2.18	1.70
1"	5.39	2.18	1.70
1 1/4"	6.31	2.80	2.33
1 1/2"	6.31	2.80	2.33
2"	6.65	3.28	2.80



MODELS		
1/2"	KSL-0500-S	Socket x Socket
3/4"	KSL-0750-S	Socket x Socket
1"	KSL-1000-S	Socket x Socket
1 1/4"	KSL-1250-S	Socket x Socket
1 1/2"	KSL-1500-S	Socket x Socket
2"	KSL-2000-S	Socket x Socket

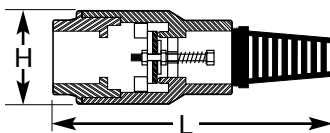
**USES:** Especially useful in systems where fluid is corrosive or contains debris: industrial waste disposal, sewage, etc. EPDM swing gate lifts to provide unobstructed flow. There are no internal metallic parts to corrode. Only 1/2 pound back pressure is required for complete closure.

- Made of High-Impact PVC Type II material.
- Low Profile design specifically for low clearance areas.
- Complies with all applicable ASTM & ANSI standards.
- Swing Check is not recommended to be installed with outlet side angled down or facing down.

## SPRING CHECK FOOT VALVE



DIMENSIONS		
Size	L	H
1/2"	6.40	2.30
3/4"	6.40	2.30
1"	6.40	2.30
1 1/4"	7.00	2.75
1 1/2"	7.00	2.75
2"	7.00	3.35

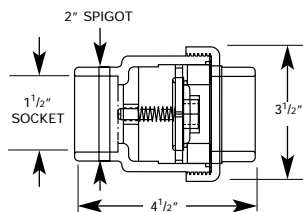


MODELS			
Enters Pipe Size			
1/2"	KFV-0500-T	1 1/4"	FIPT x Screen
3/4"	KFV-0750-T	1 1/2"	FIPT x Screen
1"	KFV-1000-T	2"	FIPT x Screen
1 1/4"	KFV-1250-T	3"	FIPT x Screen
1 1/2"	KFV-1500-T	3"	FIPT x Screen
2"	KFV-2000-T	3 1/2"	FIPT x Screen

**USES:** Normally installed at the bottom of a pump suction line to prevent loss of prime. A 1/2 pound stainless steel spring gives positive seal even where there is no back pressure with minimum flow loss restriction. Unique Poppet-Stop™, braced poppet design, eliminates poppet chatter and poppet damage due to hard pump start-up. Polyethylene foot valve screen is easily removed for cleaning by unthreading from body.

- Screens available separately.
- Same body style as KC series.
- Complies with all applicable ASTM & ANSI standards.

## CLEAR PVC POOL/SPA SINGLE UNION CHECK VALVE



MODEL		
1 1/2" x 2"	PCC-1520-S	*Socket/Spigot

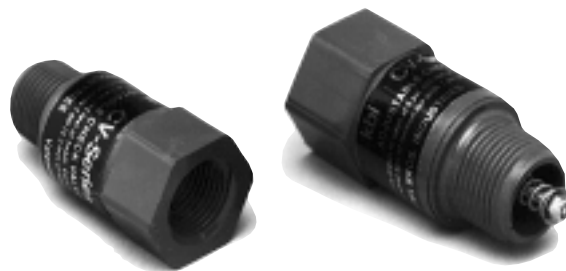
- Made with clear Type I PVC.
- Combination 1-1/2" socket and 2" spigot on each end can be used on both sizes of pipe.\*
- Resistant to all pool/spa chemicals for long life/no maintenance.
- Unique KBI single union allows for serviceability.
- Complies with all applicable ASTM & ANSI standards.
- Excellent for use on spa blower line.
- UL recognized spa component.
- Replaceable poppet and 1/3 lb. spring.
- Minimal flow loss.



MODELS		
Size	Sch 80 Material	Inlet x Outlet
1/2"	CV-0500-FF	FIPT x FIPT
1/2"	CV-0500-FM	FIPT x MIPT
1/2"	CV-0500-MF	MIPT x FIPT
3/4"	CV-0750-FF	FIPT x FIPT
3/4"	CV-0750-FM	FIPT x MIPT
3/4"	CV-0750-MF	MIPT x FIPT
1"	CV-1000-FF	FIPT x FIPT
1"	CV-1000-FM	FIPT x MIPT
1"	CV-1000-MF	MIPT x FIPT

- All models preset at 5 psi or 12 feet of head and can be adjusted to 14 psi or 32 feet of head. Adjustable for greater feet of head or psi by means of adjustment nut in the base of the unit. Directions for adjustment on label.
- Special order springs & seals available.

## PVC ADJUSTABLE CHECK VALVES



**USES:** Excellent for use in irrigation systems to avoid drainage of sprinkler lines through lowest head. Stops erosion and washing out. Eliminates water hammer damage, and back flow. Can be used in other applications where adjustable tension is desired.

MODELS		
Size	U.V.R. Material	Inlet x Outlet
1/2"	UCV-0500-FF	FIPT x FIPT
3/4"	UCV-0750-FF	FIPT x FIPT
1"	UCV-1000-FF	FIPT x FIPT

- All models preset at 5 psi or 12 feet of head and can be adjusted to 14 psi or 32 feet of head. Adjustable for greater feet of head or psi by means of adjustment nut in the base of the unit. Directions for adjustment on label.
- UCV Check Valves made with brown tone ultra violet resistant material for above ground use.
- Special order springs & seals available.

## U.V. RESISTANT PVC ADJUSTABLE CHECK VALVES



**USES:** Excellent for use in irrigation systems to avoid drainage of sprinkler lines through lowest head. Stops erosion and washing out. Eliminates water hammer damage, and back flow. Can be used in other applications where adjustable tension is desired.

MODELS		
3/4"	DF-0750-T	MIPT x Plain Outlet
2"	DF-2000-T	MIPT x Plain Outlet

- Strong polyethylene construction with excellent chemical resistance properties. Use with water and approved chemicals.
- Complies with all applicable ASTM & ANSI standards.

## POLYETHYLENE DRUM & BARREL FAUCET



## PVC SCH 80 UNION



STANDARD DESIGN



MIPT DESIGN



MODELS				
Size	Standard		MIPT	
1/2"	U-0500-S	Socket x Socket	U-0500-SM	Socket x MIPT
1/2"	U-0500-T	FIPT x FIPT	U-0500-TM	FIPT x MIPT
3/4"	U-0750-S	Socket x Socket	U-0750-SM	Socket x MIPT
3/4"	U-0750-T	FIPT x FIPT	U-0750-TM	FIPT x MIPT
1"	U-1000-S	Socket x Socket	U-1000-SM	Socket x MIPT
1"	U-1000-T	FIPT x FIPT	U-1000-TM	FIPT x MIPT
1 1/4"	U-1250-S	Socket x Socket	U-1250-SM	Socket x MIPT
1 1/4"	U-1250-T	FIPT x FIPT	U-1250-TM	FIPT x MIPT
1 1/2"	U-1500-S	Socket x Socket	U-1500-SM	Socket x MIPT
1 1/2"	U-1500-T	FIPT x FIPT	U-1500-TM	FIPT x MIPT
2"	U-2000-S	Socket x Socket	U-2000-SM	Socket x MIPT
2"	U-2000-T	FIPT x FIPT	U-2000-TM	FIPT x MIPT

- Slip or thread connections.
- Made with HI-IMPACT PVC Type II material.
- Meets ASTM schedule 80 socket and material standards.
- EPDM O'rings.
- Viton O'rings available.
- Complies with all applicable ASTM & ANSI standards.
- Note: FIPT "-T" models not IAPMO (UPC) listed.

## PVC SCH 40 UNION



MODELS		
Size	Socket	FIPT x FIPT
1/2"	WU-0500-S	WU-0500-T
3/4"	WU-0750-S	WU-0750-T
1"	WU-1000-S	WU-1000-T
1 1/4"	WU-1250-S	WU-1250-T
1 1/2"	WU-1500-S	WU-1500-T
2"	WU-2000-S	WU-2000-T

- EPDM O'rings.
- Made with HI-IMPACT PVC Type II material.
- Exceeds ASTM schedule 40 socket standards.
- Complies with all applicable ASTM & ANSI standards.

## CPVC CTS UNION



**FLOWGUARD GOLD**

MODELS		
1/2"	CU-0500-S	Socket CTS x Socket CTS
3/4"	CU-0750-S	Socket CTS x Socket CTS
1"	CU-1000-S	Socket CTS x Socket CTS

- EPDM O'rings.
- CPVC construction for use in hot or cold fluid systems up to 180°F.
- Beige color body.
- Complies with all applicable ASTM & ANSI standards.
- Made with FlowGuard Gold material.

MODELS		
1/2"	QF-0500	Socket x Spigot
3/4"	QF-0750	Socket x Spigot
1"	QF-1000	Socket x Spigot
1 1/4"	QF-1250	Socket x Spigot
1 1/2"	QF-1500	Socket x Spigot
2"	QF-2000	Socket x Spigot
2 1/2"	QF-2500	Socket x Spigot
3"	QF-3000	Socket x Spigot
4"	QF-4000	Socket x Spigot
6"	QF-6000	Socket x Socket

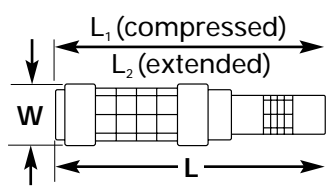
# QUIK-FIX PVC TELESCOPIC REPAIR COUPLING



- Made with HI-IMPACT PVC Type II material.
- 150 psi pressure rated in all positions.
- Complies with all applicable ASTM & ANSI standards.
- Internal high quality self-lubricating EPDM O'ring for long life & smooth movement.
- One piece cylinder - no solvent weld to leak.

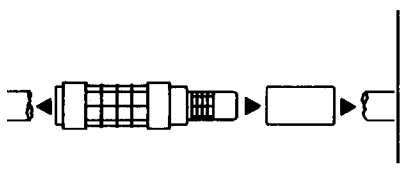


6" Design

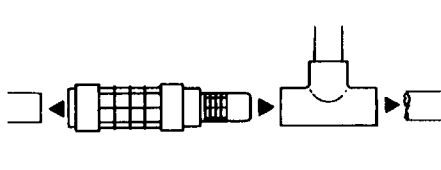


SIZE	W	L <sub>1</sub>	L <sub>2</sub>
1/2"	1.50	6.13	8.13
3/4"	1.90	6.63	9.00
1"	2.20	7.50	10.13
1 1/4"	2.81	8.75	11.38
1 1/2"	3.10	9.38	12.50
2"	3.64	9.75	12.88
2 1/2"	4.12	12.50	16.88
3"	4.88	13.38	17.88
4"	6.06	14.88	19.63
6"	8.75	18.50	26.00

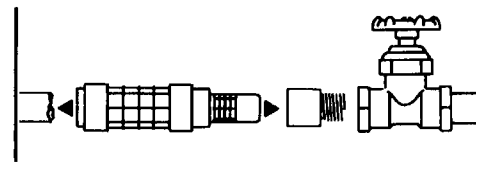
## REPAIR BREAK



## ADD LATERAL/RISER



## INSTALL/REPLACE VALVE

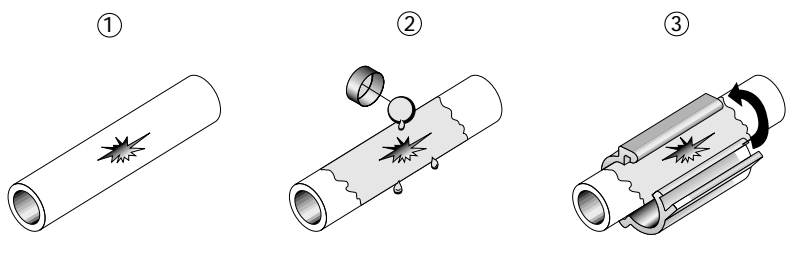


MODELS				
Size	PVC		CPVC	
1/2"	SNX-0500-B	(IPS-PVC)	SNC-0500-B	(CTS-CPVC)
3/4"	SNX-0750-B	(IPS-PVC)	SNC-0750-B	(CTS-CPVC)
1"	SNX-1000-B	(IPS-PVC)		

# SNAP-FIX PVC + CPVC REPAIR COUPLING

- Unique positive snapping lock assures strong seal without the need to hold product in place. (Strong, fast, and permanent).
- Made with HI-IMPACT PVC Type II material.
- Compact design.
- Carded and bagged with instructions on back.
- Complies with all applicable ASTM & ANSI standards.
- Manufactured under patent # 5,443,096.

**FLOWGUARD GOLD**  
PIPE & FITTINGS  
(SNC only)

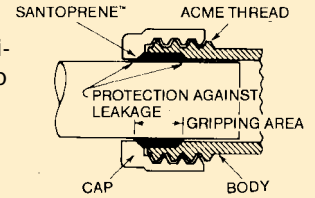


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## INFORMATION COMMON TO COMPRESSION PRODUCTS

- Double compression fitting with body and cap constructed of HI-IMPACT PVC type II material or FLOW GUARD GOLD material.

- Gasket seal is **SANTOPRENE™**.
- Acme threads on body and cap eliminate cross threading and prevent cap from creeping under pressure.
- Working pressure rated at 150 psi.
- Replacement gaskets available.



### PVC IRON PIPE SIZE COMPRESSION COUPLING



#### MODELS

1/2"	CPC-0500	IPS Comp. x IPS Comp.
3/4"	CPC-0750	IPS Comp. x IPS Comp.
1"	CPC-1000	IPS Comp. x IPS Comp.
1 1/4"	CPC-1250	IPS Comp. x IPS Comp.
1 1/2"	CPC-1500	IPS Comp. x IPS Comp.
2"	CPC-2000	IPS Comp. x IPS Comp.
2 1/2"	CPC-2500	IPS Comp. x IPS Comp.
3"	CPC-3000	IPS Comp. x IPS Comp.
4"	CPC-4000	IPS Comp. x IPS Comp.
6"	CPC-6000	IPS Comp. x IPS Comp.

- Working Temperature max., 140°F at 66 psi.
- Working pressure 150 psi @ 70°F.
- Complies with all applicable ASTM & ANSI standards.

### CPVC IRON PIPE SIZE COMPRESSION COUPLING (Hot Water)



**FLOWGUARD GOLD™**

#### MODELS

1/2"	CPC-0500-C	IPS Comp. x IPS Comp.
3/4"	CPC-0750-C	IPS Comp. x IPS Comp.

- Working pressure 150 psi @ 180°F.
- Complies with all applicable ASTM & ANSI standards.
- Made with FlowGuard Gold material.

### PVC COPPER TUBE SIZE COMPRESSION COUPLING



#### MODELS

1/2"	CCC-0500	CTS Comp. x CTS Comp.
3/4"	CCC-0750	CTS Comp. x CTS Comp.
1"	CCC-1000	CTS Comp. x CTS Comp.
1 1/4"	CCC-1250	CTS Comp. x CTS Comp.
1 1/2"	CCC-1500	CTS Comp. x CTS Comp.
2"	CCC-2000	CTS Comp. x CTS Comp.

- Working Temperature max., 140°F at 66 psi.
- Working pressure 150 psi @ 70°F.
- Complies with all applicable ASTM & ANSI standards.

### CPVC COPPER TUBE SIZE COUPLING (Hot Water)



**FLOWGUARD GOLD™**

#### MODELS

1/2"	CCC-0500-C	CTS Comp. x CTS Comp.
3/4"	CCC-0750-C	CTS Comp. x CTS Comp.
1"	CCC-1000-C	CTS Comp. x CTS Comp.

- Working pressure 150 psi @ 180°F.
- Complies with all applicable ASTM & ANSI standards.
- Made with FlowGuard Gold material.



MODELS			
Size	Slip	Thread	Configuration
1/2"	CPT-0500-S	CPT-0500-T	IPS COMP x SLIP or FIPT
3/4"	CPT-0750-S	CPT-0750-T	IPS COMP x SLIP or FIPT
1"	CPT-1000-S	CPT-1000-T	IPS COMP x SLIP or FIPT
1 1/4"	CPT-1250-S	CPT-1250-T	IPS COMP x SLIP or FIPT
1 1/2"	CPT-1500-S	CPT-1500-T	IPS COMP x SLIP or FIPT
2"	CPT-2000-S	CPT-2000-T	IPS COMP x SLIP or FIPT

- Working Temperature max., 140°F at 66 psi.
- Working pressure 150 psi @ 70°F.
- Complies with all applicable ASTM & ANSI standards.
- Note: FIPT "-T" models not IAPMO (UPC) listed.



MODEL		
3/4"	CRT-0750-T	IPS Comp. x IPS Comp. x 1/2" FIPT

- Working Temperature max., 140°F at 66 psi.
- Working pressure 150 psi @ 70°F.
- Complies with all applicable ASTM & ANSI standards.



MODELS		
1/2"	CCT-0500	CTS Comp. x CTS Comp. x FIPT
3/4"	CCT-0750	CTS Comp. x CTS Comp. x FIPT
1"	CCT-1000	CTS Comp. x CTS Comp. x FIPT
1 1/4"	CCT-1250	CTS Comp. x CTS Comp. x FIPT
1 1/2"	CCT-1500	CTS Comp. x CTS Comp. x FIPT
2"	CCT-2000	CTS Comp. x CTS Comp. x FIPT

- Working Temperature max., 140°F at 66 psi.
- Working pressure 150 psi @ 70°F.
- Complies with all applicable ASTM & ANSI standards.



MODELS		
1/2"	CCT-0500-C	CTS Comp. x CTS Comp. x FIPT
3/4"	CCT-0750-C	CTS Comp. x CTS Comp. x FIPT

- Working pressure 150 psi @ 180°F.
- Complies with all applicable ASTM & ANSI standards.
- Made with FlowGuard Gold material.



MODELS		
1/2"	CPA-0500	MIPT x IPS Comp.
3/4"	CPA-0750	MIPT x IPS Comp.
1"	CPA-1000	MIPT x IPS Comp.
1 1/4"	CPA-1250	MIPT x IPS Comp.
1 1/2"	CPA-1500	MIPT x IPS Comp.
2"	CPA-2000	MIPT x IPS Comp.

- Working Temperature max., 140°F at 66 psi.
- Working pressure 150 psi @ 70°F.
- Use with valves or between pipe and threaded fittings.
- Deep socket for valve and pump usage.
- Complies with all applicable ASTM & ANSI standards.



## PVC IRON PIPE SIZE COMPRESSION MALE ADAPTER

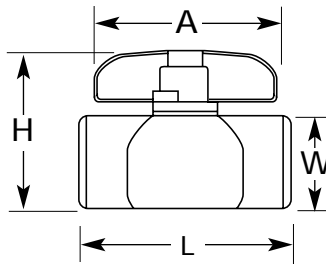
## PVC ECONOMY BALL VALVE



DIMENSIONS				
Size	A	L	H	W
1/2"	2.29	2.67	2.10	1.15
3/4"	2.65	3.12	2.38	1.38
1"	3.22	3.49	2.69	1.69
1 1/4"	4.20	5.25	4.10	2.25
1 1/2"	4.20	5.25	4.10	2.25
2"	5.30	6.00	5.00	2.75

MODELS				
White Schedule 40 Material			Grey Schedule 80 Material	
Size	Socket	Thread	Socket	Thread
1/2"	EBV-0500-S	EBV-0500-T	EBVG-0500-S	EBVG-0500-T
3/4"	EBV-0750-S	EBV-0750-T	EBVG-0750-S	EBVG-0750-T
1"	EBV-1000-S	EBV-1000-T	EBVG-1000-S	EBVG-1000-T
1 1/4"	EBV-1250-S	EBV-1250-T	EBVG-1250-S	EBVG-1250-T
1 1/2"	EBV-1500-S	EBV-1500-T	EBVG-1500-S	EBVG-1500-T
2"	EBV-2000-S	EBV-2000-T	EBVG-2000-S	EBVG-2000-T

- Low profile and compact economy design.
- EPDM O'rings.
- Full Port.
- Patented Cam-Lok design made with Acetal copolymer ball.
- Complies with all applicable ASTM & ANSI standards.
- Made with HI-IMPACT PVC Type II material and ABS handle.
- 150 psi working pressure @ 73°.
- Manufactured under Patent # 5,308,039.
- Note: FIPT "-T" models not IAPMO (UPC) listed.



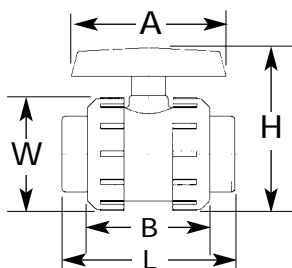
## PVC BLOCKED TRUE UNION BALL VALVE



DIMENSIONS					
Size	A	H	L	W	B
1/2"	1.51	3.21	3.85	2.10	2.07
3/4"	1.85	3.89	4.67	2.56	2.62
1"	2.01	4.47	5.19	2.87	2.97
1 1/4"	2.51	5.55	6.19	3.74	3.42
1 1/2"	2.51	5.55	6.19	3.74	3.42
2"	3.05	6.43	6.80	4.35	3.78
2 1/2"	4.39	8.56	10.11	6.89	6.59
3"	4.39	8.56	10.03	6.89	6.63
4"	4.39	10.59	12.34	8.45	7.84

MODELS				
Size	EPDM Socket	EPDM Thread	VITON Socket	VITON Thread
1/2"	BTU-0500-E	(Same P/N)	BTU-0500-V	(Same P/N)
3/4"	BTU-0750-E	(Same P/N)	BTU-0750-V	(Same P/N)
1"	BTU-1000-E	(Same P/N)	BTU-1000-V	(Same P/N)
1 1/4"	BTU-1250-E	(Same P/N)	BTU-1250-V	(Same P/N)
1 1/2"	BTU-1500-E	(Same P/N)	BTU-1500-V	(Same P/N)
2"	BTU-2000-E	(Same P/N)	BTU-2000-V	(Same P/N)
2 1/2"	BTU-2500-SE	BTU-2500-TE	BTU-2500-SV	BTU-2500-TV
3"	BTU-3000-SE	BTU-3000-TE	BTU-3000-SV	BTU-3000-TV
4"	BTU-4000-SE	BTU-4000-TE	BTU-4000-SV	BTU-4000-TV

- 1/2"-2" models shipped with both slip and threaded end connectors.
- Double Union design allows in-line maintenance without disconnecting pipe.
- One end blocked which allows disassembly of downstream side union.
- Self adjusting HMW-HDPE ball seats on 1/2"-2" models, Teflon® ball seats on 2 1/2"-4" models.



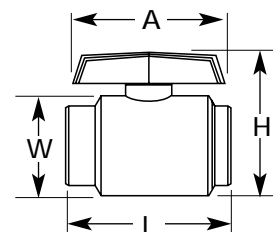
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- Viton® or EPDM O'ring options.
- Complies with all applicable ASTM & ANSI standards.
- 150 psi working pressure @ 73°.
- Full port design - Cv factor is the same as equal length Sch. 80 pipe.
- Made with HI-IMPACT PVC Type II matl.

MODELS				
White Schedule 40 Material			Grey Schedule 80 Material	
Size	Socket	Thread	Socket	Thread
1/2"	WLT-0500-S	WLT-0500-T	LT-0500-S	LT-0500-T
3/4"	WLT-0750-S	WLT-0750-T	LT-0750-S	LT-0750-T
1"	WLT-1000-S	WLT-1000-T	LT-1000-S	LT-1000-T
1 1/4"	WLT-1250-S	WLT-1250-T	LT-1250-S	LT-1250-T
1 1/2"	WLT-1500-S	WLT-1500-T	LT-1500-S	LT-1500-T
2"	WLT-2000-S	WLT-2000-T	LT-2000-S	LT-2000-T

- Low torque required to operate unit manually.
- Precision molded micro-finish ball provides longer life.
- Ball seats are self-adjusting HMW-HDPE to compensate for wear.
- Patented "pre-loaded" stem seal for longer life of seal.
- Both styles made of material with HI-IMPACT PVC type II material, impact resistant ABS handle, and EPDM O'rings.
- Complies with all applicable ASTM & ANSI standards.
- 150 psi working pressure @ 73°.
- Full port flow through design - Cv factor is same as equal length Sch 80 pipe.
- Note: FIPT "-T" models not IAPMO (UPC) listed.

## LO-TORQUE™ BALL VALVES



DIMENSIONS				
Size	L	H	A	W
1/2"	3.22	2.57	3.01	1.60
3/4"	3.81	3.13	3.64	2.00
1"	4.38	3.56	4.23	2.33
1 1/4"	5.30	4.50	5.00	3.15
1 1/2"	5.30	4.50	5.00	3.15
2"	6.00	5.45	5.50	3.80

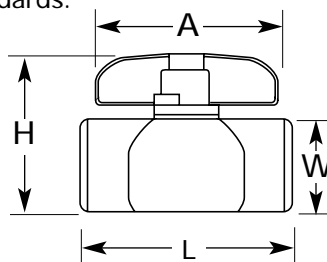
MODELS		
1/2"	CBV-0500-S	CTS Socket x CTS Socket
3/4"	CBV-0750-S	CTS Socket x CTS Socket
1"	CBV-1000-S	CTS Socket x CTS Socket
1 1/4"	CBV-1250-S	CTS Socket x CTS Socket
1 1/2"	CBV-1500-S	CTS Socket x CTS Socket
2"	CBV-2000-S	CTS Socket x CTS Socket

- EPDM stem O'ring.
- Full Port.
- Patented Cam-Lok design. With Acetal Copolymer ball.
- Durable ABS red handle (blue available also).
- Complies with all applicable ASTM & ANSI standards.
- 180 psi working pressure @ 73°.
- Manufactured under Patent # 5,308,039.
- Made with FlowGuard Gold material.

## CPVC BALL VALVES



**FLOWGUARD GOLD®**  
PIPE & FITTINGS



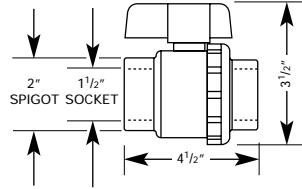
DIMENSIONS				
Size	A	L	H	W
1/2"	2.10	2.31	2.00	0.85
3/4"	2.65	3.10	2.38	1.10
1"	3.00	3.70	2.80	1.70
1 1/4"	3.50	4.00	4.00	2.75
1 1/2"	4.00	4.75	4.50	3.00
2"	5.00	5.25	5.50	4.00

MODELS		
1/2"	CLT-0500-S	CTS Socket x CTS Socket
3/4"	CLT-0750-S	CTS Socket x CTS Socket
1"	CLT-1000-S	CTS Socket x CTS Socket
1 1/4"	CLT-1250-S	CTS Socket x CTS Socket
1 1/2"	CLT-1500-S	CTS Socket x CTS Socket
2"	CLT-2000-S	CTS Socket x CTS Socket

## LO-TORQUE™ CPVC BALL VALVE



## WATER SINGLE UNION BALL VALVE



MODEL		
1½" x 2" x 1½" x 2"	WSU-1520-S	Socket x Socket
1½" x 1½"	WSU-1520-FM	FIPT x MIPT

- Combination 1-1/2" socket and 2" spigot on each end can be used on both sizes of pipe. (-S model only)
- Resistant to all pool/spa chemicals for long life/no maintenance.
- Made with HI-IMPACT PVC type II material with strong impact resistant red handle.
- EPDM O'ring.
- 150 psi working pressure @ 73°.
- Single union design for easy serviceability.
- Complies with all applicable ASTM & ANSI standards.

## PVC GATE VALVES



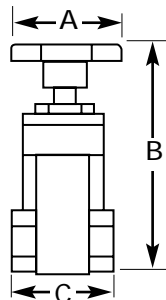
\*Dimensional below.



MODELS				
White Schedule 40 Mat'l			Grey Schedule 80 Mat'l	
Size	Socket	Thread	Socket	Thread
½"	GVP-0500-S	GVP-0500-T	GVG-0500-S	GVG-0500-T
¾"	GVP-0750-S	GVP-0750-T	GVG-0750-S	GVG-0750-T
1"	GVP-1000-S	GVP-1000-T	GVG-1000-S	GVG-1000-T
1¼"	GVP-1250-S	GVP-1250-T	GVG-1250-S	GVG-1250-T
1½"	GVP-1500-S	GVP-1500-T	GVG-1500-S	GVG-1500-T
2"	GVP-2000-S	GVP-2000-T	GVG-2000-S	GVG-2000-T

- Body and stem made of HI-IMPACT PVC type II material for increased strength with impact resistant handle.
- Heavy duty/non-rising stem construction.
- All plastic for corrosion resistance.
- Complies with all applicable ASTM & ANSI standards.
- Polypropylene wedge for smooth sealing and longer service. (EPDM O'ring)
- 150 PSI working pressure @ 73°.
- Full flow operation — 1/2" to 2" size range.

## ACETAL GATE VALVE



Dimensional drawings, common to PVC and Celcon Gate Valves.



DIMENSIONS			
Size	A	B	C
½"	2.30	4.83	2.19
¾"	2.30	5.03	2.28
1"	2.30	5.44	2.83
1¼"	2.78	7.75	3.06
1½"	2.78	7.91	3.06
2"	3.31	9.00	4.19

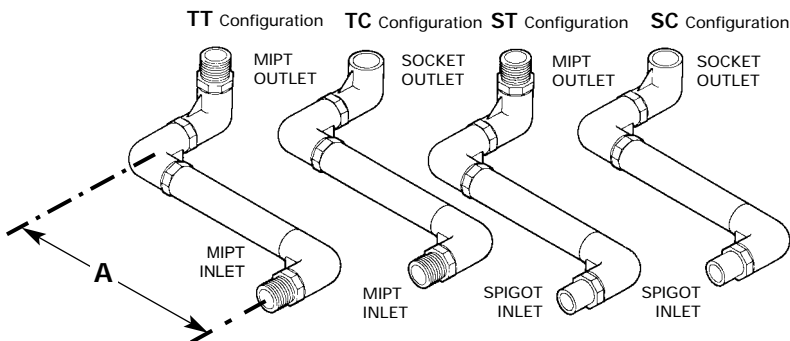
MODELS			
Size	EPDM	Viton	Configuration
½"	GVL-0500-E	GVL-0500-V	FIPT x FIPT
¾"	GVL-0750-E	GVL-0750-V	FIPT x FIPT
1"	GVL-1000-E	GVL-1000-V	FIPT x FIPT
1¼"	GVL-1250-E	GVL-1250-V	FIPT x FIPT
1½"	GVL-1500-E	GVL-1500-V	FIPT x FIPT
2"	GVL-2000-E	GVL-2000-V	FIPT x FIPT

- Body and stem made of chemical resistant Acetal copolymer material with impact resistant handle.
- Heavy duty/non-rising stem construction.
- Complies with all applicable ASTM & ANSI standards.
- All plastic for corrosion resistance.
- Bronze color body/red wheel handle.
- Viton® or EPDM O'ring options.
- Polypropylene wedge for smooth sealing and longer service.
- 150 PSI working pressure @ 73°.
- Full flow operation — 1/2" to 2" size range.



STANDARD MODELS					
Size	A	MIPT x MIPT	MIPT x Socket	Spigot x MIPT	Spigot x Socket
1/2"	10"	TSA-0500-TT	TSA-0500-TC	TSA-0500-ST	TSA-0500-SC
3/4"	10"	TSA-0750-TT	TSA-0750-TC	TSA-0750-ST	TSA-0750-SC
1"	12"	TSA-1000-TT	TSA-1000-TC	TSA-1000-ST	TSA-1000-SC
1 1/4"	12"	TSA-1250-TT	TSA-1250-TC	TSA-1250-ST	TSA-1250-SC
1 1/2"	12"	TSA-1500-TT	TSA-1500-TC	TSA-1500-ST	TSA-1500-SC
SHORT MODELS					
Size	A	MIPT x MIPT	MIPT x Socket	Spigot x MIPT	Spigot x Socket
1/2"	4"	TSS-0500-TT	TSS-0500-TC	TSS-0500-ST	TSS-0500-SC
3/4"	5"	TSS-0750-TT	TSS-0750-TC	TSS-0750-ST	TSS-0750-SC
1"	6"	TSS-1000-TT	TSS-1000-TC	TSS-1000-ST	TSS-1000-SC
1 1/4"	6"	TSS-1250-TT	TSS-1250-TC	TSS-1250-ST	TSS-1250-SC
1 1/2"	6"	TSS-1500-TT	TSS-1500-TC	TSS-1500-ST	TSS-1500-SC

- Made of SCH 80 HI-IMPACT PVC type II material.
- EPDM O'rings.
- Full 360° adjustment/3 planes.
- 200 psi at 73°F pressure rating.
- Metric/BSP option also available on ST & TT models.
- Complies with all applicable ASTM & ANSI standards.
- Many available configurations including United Body, Short, Custom Length, Kit, etc.
- KBI has the ability to make almost any size/thread configuration as well as custom lie lengths. (Call factory with specifications).
- Replacement inlets (TSI) and outlets (TSO) also available in every configuration.



MODELS		
Size	Standard	Retrofit Design
1/2" x 6"	TSE-0500-6	TSE-0500-6R
1/2" x 12"	TSE-0500-12	TSE-0500-12R
1/2" x 3/4" x 6"	TSE-0507-6	-
3/4" x 6"	TSE-0750-6	TSE-0750-6R
3/4" x 12"	TSE-0750-12	TSE-0750-12R

- Quality Acetal Copolymer & Polyethylene construction.
- Full 3 way adjustment including height.
- Pressure rated to 80 PSI.
- 150 PSI working pressure @ 73°.
- Factory pre-assembled.
- Insures simple installation and head adjustment.
- Retrofit models designed for use with existing systems (extra elbow to retrofit riser on either existing horizontal or vertical elbow).

## TRIPLE SWING ASSEMBLY™ (SCHEDULE 80)



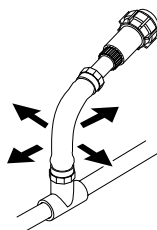
## TRIPLE SWING ASSEMBLY™ (ECONOMY)



Standard Design

Retrofit Design

## FLEX-RISER® Patented



FLEX-RISERS are not recommended for high pressure systems, closed systems, or quick coupler sprinkler application.

MODELS		
1/2" x 4"	FR-0500-4	MIPT x MIPT
1/2" x 4"	FR-0500-4F	MIPT x FIPT
1/2" x 6"	FR-0500-6	MIPT x MIPT
1/2" x 6"	FR-0500-6F	MIPT x FIPT
1/2" x 6"	FR-0500-PU (Pop-Up)	MIPT x MIPT
3/4" x 6"	FR-0750-6	MIPT x MIPT
1" x 7"	FR-1000-7	MIPT x MIPT

- Use below each sprinkler head to cushion shocks and jolts by means of its rubber body leaving plastic pipeline undisturbed.
- Remains flexible indefinitely, will not rust or become brittle with age when properly installed.
- Ends constructed of high quality PVC.
- Can withstand soil pH and temperature variations.
- Working pressure 80 psi @ 73°.
- Custom lengths available - call for quote.
- Manufactured under Patent # 3,759,445

## RISER EXTENSION



MODELS		
1/2" x 1/2" Length	RE-0500-05	FIPT x MIPT
1/2" x 1" Length	RE-0500-1	FIPT x MIPT

- Designed to provide extension of sprinkler height in locations where sprinklers are below the desired grade level due to turf growth or surface changes. Installed between the sprinkler and existing riser in sprinkler assembly.
- Constructed of black, premium grade, high impact resistant ABS plastic material.
- Provides for extension of sprinkler height.

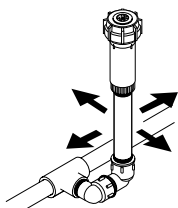
## SHRUB ADAPTER



MODEL		
1/2" x 1/2" Length	SAM-0500	15-21 x MIPT

- Perfect solution when a female thread sprinkler nozzle needs to be attached to a 1/2" threaded riser nipple.
- Constructed of black, premium grade, high impact resistant ABS plastic material.
- Fits all female nozzles.

## POLYETHYLENE STREET ELL



MODELS		
1/2"	STL-0500	MIPT x FIPT
3/4"	STL-0750	MIPT x FIPT

- High density Polyethylene material (Marlex equal) for low friction and high strength.
- Ideal for making low cost swing assemblies under sprinkler heads allowing freedom of mobility.

MODELS		
1/2" x 6"	MCO-0500	MIPT x MIPT
1/2" x 12"	MCO-0500-12	MIPT x MIPT
3/4" x 6"	MCO-0750	MIPT x MIPT
1/2" x 3/4" x 6"	MCO-0750-R	MIPT x MIPT

- For use in sprinkler systems between the lateral line and sprinkler head.
- No waste design allows for size selection and reusable cut pieces.
- Unit constructed of black polyethylene.
- MCO-0750-R design allows for 3/4" sprinkler head on 1/2" lateral line.

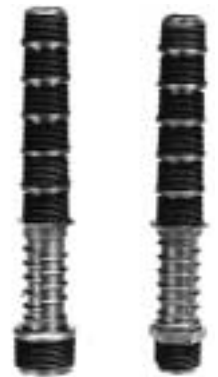
## MULTI-CUT-OFF™ RISER



MODELS		
1/2" x 6"	FCO-0500	MIPT x MIPT
3/4" x 1/2" x 6"	FCO-0750-R	MIPT x MIPT

- For use in sprinkler systems between the lateral line and sprinkler head.
- The unit incorporates the threaded portion of a standard conventional polyethylene cut-off with a flexible convolution designed body.
- Unit constructed of black polyethylene.

## FLEX-CUT-OFF™ RISER



MODELS		
1/2" x 3"	FVN-0500-3	MIPT x MIPT
1/2" x 4"	FVN-0500-4	MIPT x MIPT
1/2" x 4"	FVN-0500-4F	MIPT x FIPT
1/2" x 6"	FVN-0500-6	MIPT x MIPT
1/2" x 6"	FVN-0500-6F	MIPT x FIPT

- Flexible Vinyl Nipples combine the rigidity of a standard nipple with a convolution designed body for maximum flexibility in the system.
- Unit is 3", 4" or 6" in length and constructed of high grade blended vinyl plastic, with hex at the base of the threads for easy installation.

## FLEXIBLE VINYL NIPPLE



MODEL		
1/2" x 3"	CRE-0500-3	FIPT x MIPT
3/4" x 4"	CRE-0750-4	FIPT x MIPT

- Use below sprinkler heads to extend height where sprinklers need increased elevation.
- Constructed of black polyethylene.
- Unit has cut-off thread configuration for selection of length of extension.

## CUTOFF RISER EXTENSION



## STUB WRENCH™



MODEL		
$\frac{1}{2}$ " + $\frac{3}{4}$ "	SW-0500-C	Carded
$\frac{1}{2}$ " + $\frac{3}{4}$ "	SW-0500-B	Bulk

The Plastic Riser Extractor used to remove broken risers from piping systems. Easy to use, simply press into broken pipe stub and turn counter-clockwise to remove.

- Combo **STUB WRENCH™** removes both  $\frac{1}{2}$ " &  $\frac{3}{4}$ " broken plastic risers.
- Patented serrated reverse helix head design strengthens grip on stubborn broken risers.
- Unit is  $8\frac{1}{4}$ " in length, and made of durable die cast zinc with coated red vinyl grip.
- Standard series carded: optional bulk packaging available (p/n SW-0500-B).
- Manufactured under U.S. patents #3,952,618 and #4,111,078.

## FLEXee PIPE AND FITTINGS™



MODELS		
$\frac{1}{2}$ " Elbow	FPE-0500	.49 Barb x $\frac{1}{2}$ " MIPT
$\frac{3}{4}$ " Elbow	FPE-0750	.49 Barb x $\frac{3}{4}$ " MIPT
$\frac{1}{2}$ " Straight	FPA-0500	.49 Barb x $\frac{1}{2}$ " MIPT
$\frac{3}{4}$ " Straight	FPA-0750	.49 Barb x $\frac{3}{4}$ " MIPT
.490" Coupling	FPC-0490	.49 Barb x .49 Barb
Pipe	FP-0490	100' Coil

- Made of durable black acetal plastic.
- Gusset design on FPE models for increased strength.
- Spiral Barb Fittings for use with all .490 flexible pipe.
- Spiral allows easy twist-in insertion of units in pipe.
- Maximum working pressure 80 psi at 73°.
- Pipe .49" ID for use only with .49 barb fittings.

## ANTI-FREEZE DRAIN VALVE



MODELS		
$\frac{1}{2}$ "	AFD-0500	MIPT X SCREEN
$\frac{3}{4}$ "	AFD-0750	MIPT X SCREEN

- Protects irrigation systems that are subject to freeze damage by automatically opening and allowing water to drain when system is shut off.
- Valve opens to allow system to drain at low pressure (8-10 psi.) and has check valve to prevent muddy backflow water from entering system.
- Large diameter ribbed area allows for hand installation.
- Special fiber outlet allows efficient drainage, while keeping debris and roots from fouling valve.
- All ABS plastic and EPDM rubber construction resists corrosion.

## HEAD-LOK™

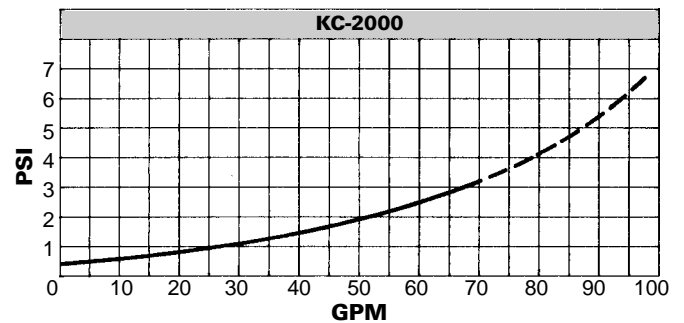
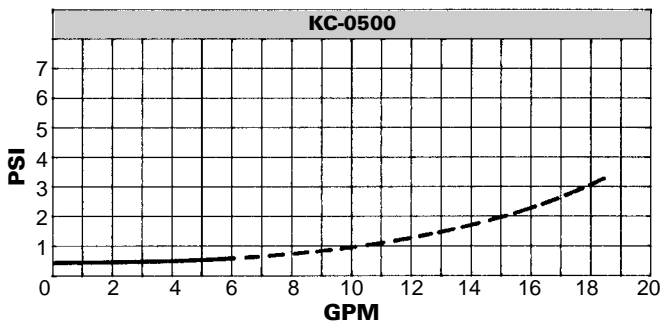
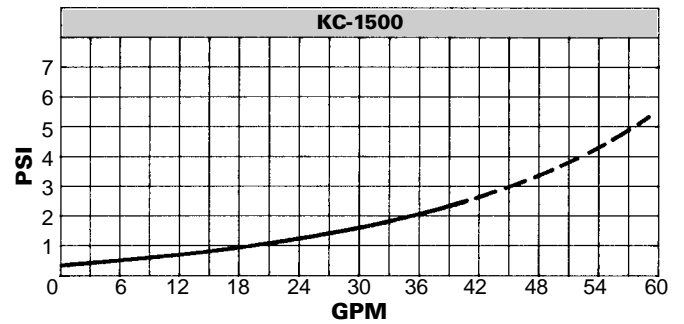
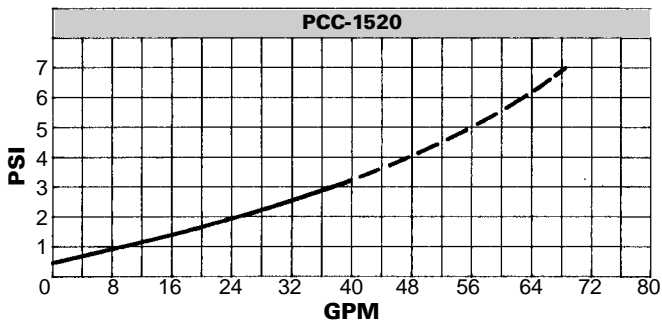
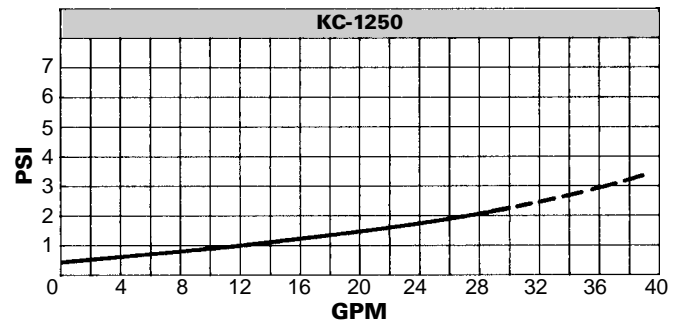
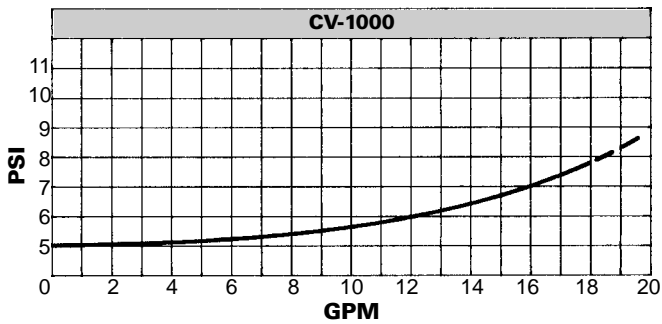
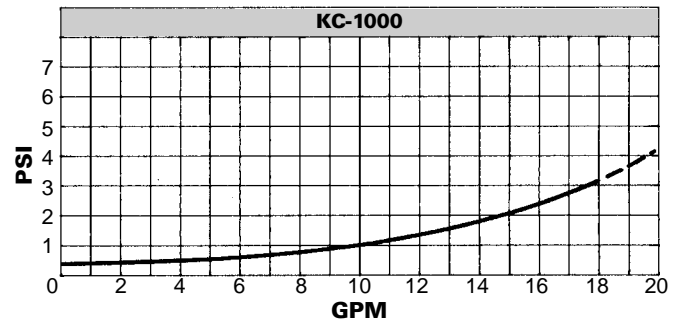
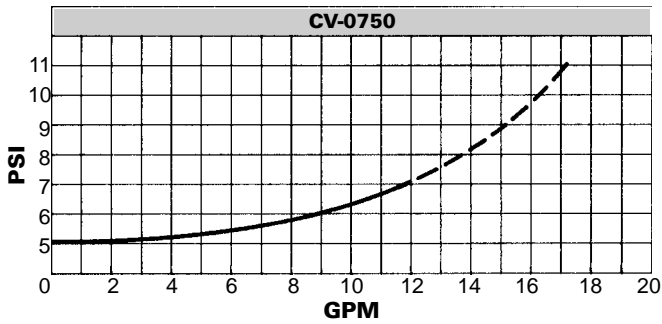
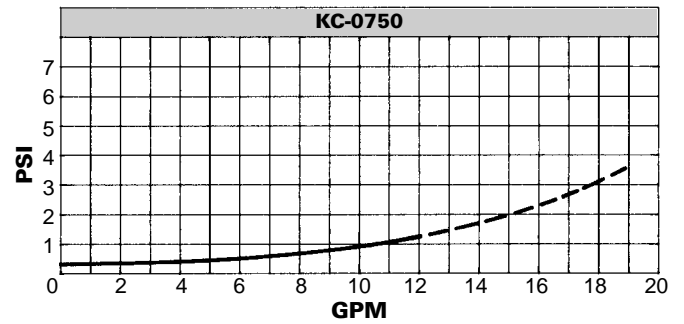
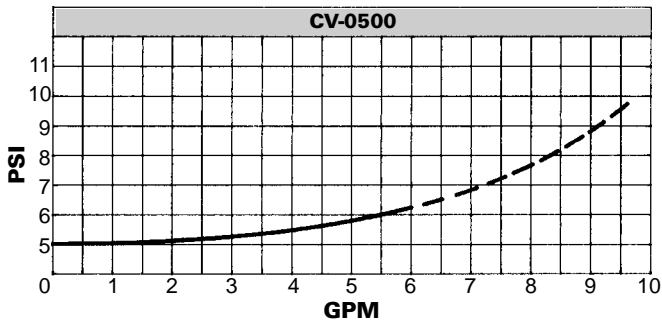


MODELS		
$\frac{1}{2}$ "	HL-0500	FIPT x MIPT
$\frac{3}{4}$ "	HL-0750	FIPT x MIPT

- Stop theft of valuable sprinkler heads. HEAD-LOK™ swivels when a vandal tries to unscrew sprinkler.
- HEAD-LOK™ can be used for part or full circle heads. Tension on upper portion of swivel is sufficient to prevent sprinkler from moving when water is turned on. Installs below sprinkler. Can be used in either direction.
- Unit is constructed of strong ABS male portion with HI-IMPACT PVC body.



# PRESSURE LOSS CURVES FOR KBI CHECK VALVES



- \* Dashed line indicates flow rates above the recommended maximum 7-1/2"/Sec.
- \* CV series tested at factory preset spring tension.
- \* KSC series flow loss insignificant due to full flow design. Charts not shown for same.

## SPECIFICATIONS AND STANDARDS

ASTM D 1784	PVC (Poly Vinyl Chloride) & CPVC (Chlorinated PVC) Materials (Compounds).
ASTM D 2466	PVC Plastic Fittings, Schedule 40
ASTM D 2467	PVC Plastic Fittings, Schedule 80
ASTM D 2846	PVC Plastic Fittings, Material & Dimensions
NSF 14	Potable water product testing standard. (National Sanitation Foundation)
NSF 61	Potable water material testing standard.
IAPMO	Approval agency for Uniform Plumbing Code (UPC). (International Association of Plumbing & Mechanical Officials).
Materials	PVC: Produced with Hi-Impact PVC Type II, which exceeds Type I in impact resistance. CPVC: Produced with Noveon "Flow Guard Gold".
Chemical Resistance	<i>Kbi</i> Chemical Resistant Guide for thermoplastics available upon request.

## INSTALLATION

All precautions should be taken to insure proper and acceptable methods and standards for plastic piping systems are followed in installation. This includes any safety measures recommended by industry associations and/or government agencies. Suitability for intended use should be determined by installer prior to installation.

**Solvent Weld Joints:** *Kbi* recommends use of a quality grade primer/cement or one step system specifically formulated for type of plastic system. We recommend cement application to pipe only to insure excess cement not introduced to valves.

**CPVC Piping:** Noveon publication #FG-2H covers all specific parameters for CPVC and should be consulted.

**Threaded Connections:** *Kbi* recommends teflon tape or compound. Care should be taken when using compounds since some contain substances known to cause stress cracking to plastic. Consult manufacturer information and/or Noveon (CPVC).

**Compressed Air or Gas:** Plastic piping systems are never recommended for compressed air or gas, and systems could rupture causing serious injury from plastic fragments.

**Water Hammer:** Care should be taken to avoid water hammer in both design and testing. Excessive hammer could damage any component in a piping system.

**Temperature Considerations:** PVC: 150psi @ 73F derating to 66psi @ 140F  
CPVC: 150psi @ 100F derating to 100psi @ 180F



## TRADEMARKS & PATENTS

- Kbi Trademarks: Cam-lok, Flex-Riser, Flex-Cut-Off, Flexee Pipe, Flexee Fittings, Headlok, King Chek, Lo-Torque, Multi-Cut-off, Poppet Stop, Stub Wrench, & Triple Swing Assembly.
- Non-Kbi trademarks: Teflon & Viton trademarks of Dupont, FlowGuard Gold a trademark of Noveon.
- Kbi Patents:

CBV (# 5.308.039)	EBV (# 5.308.039)
FR (# 3.759.445)	RC (# 5.687.910)
SW (# 3.952.618)	SW (# 4.111.078)
SNX (# 5.443.096)	* others pending

## LIMITED LIFETIME WARRANTY

*Kbi* warrants all of its products against defects resulting from faulty workmanship or materials for as long as the original owner where product installed owns the property, unless otherwise mandated by law.

If any such product is found to be defective during the warranty period, the product will be replaced free of charge by *Kbi*. Should this occur, *Kbi* should be contacted immediately either by telephone or in writing for return authorization and/or instructions as to next step in procedure. Please note that all product reported to be defective must be available for inspection and analysis to determine cause.

Warranty shall be in force for as long as products are used for the intended purposes for which they were manufactured and in conformance with industry established installation, operation, and scheduled maintenance specifications. Warranty does not cover damage caused by workmanship of the installer, damage caused by freezing water conditions, or any application involving compressed air or gas. Claims for labor cost and other expenses required to replace defective product or to repair any damage resulting from the use thereof will not be allowed. This excludes but is not limited to special applications, incidental damages, vandalism, sabotage, floods, earthquakes, fires, and any other events beyond the control of *Kbi*. This warranty is in lieu of all other warranties, expressed or implied.

*Kbi* is always concerned about both our products and our relationship with our customers and/or contractors. We welcome opportunities to work together in investigation and resolution of all possible product failures and/or discrepancies.

## KBI QUALITY POLICY

At *Kbi* we are committed to continuous improvement of our products and processes. The ISO9001 standard serves as our guide to fulfill this commitment.

  
Robert King,  
President





MOLDED IN USA



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