AIK
TANK ACCESSORIES





PRODUCT CATALOGUE

TANK ACCESSORIES

CONDITIONS OF SALE

TERMS

Canada: Net 30 days (Subject to prior credit approval).
U.S.A.: Net 30 days (Subject to prior credit approval). Payable in U.S. Dollars.
International: Bank Wire Transfer in advance, or Irrevocable Confirmed. Letter of Credit drawn at sight. Payable in U.S. Dollars.

FREIGHT

Canada: F.O.B. Richmond Hill (Toronto), Ontario Warehouse.
U.S.A.: F.O.B. Richmond Hill (Toronto), Ontario Warehouse. Duty and Brokerage included to U.S.A.
International: F.O.B. Richmond Hill (Toronto), Ontario Warehouse. Please note C.I.F. Destination is available upon request.

ORDER VALUE

Minimum order value: **$100.00** net invoice value.

RETURNED GOODS

Goods may not be returned without written Kemflo Canada Inc. Return Materials Authorization. All authorized returns must be shipped back to the Maple warehouse freight prepaid. Standard restocking. Please review the Kemflo Canada Inc. Sales Policies section of the catalogue.

CLAIMS

Claims of defective materials will be handled through the standard return goods policy noted in the Kemflo Canada Inc. Sales Policies section of the catalogue. No credit will be issued until Kemflo Canada Inc. personnel have examined and assessed the product in question.

CONTENTS

MAN-WAY COVERS

FEATURES

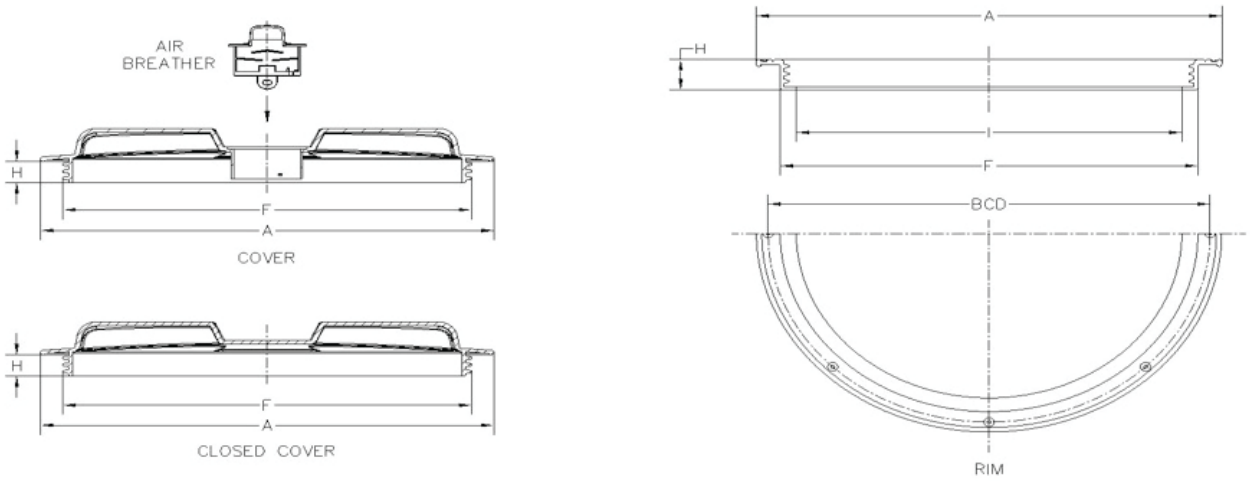
Our new and improved Man-Way Covers and Rims are constructed from High Density Polyethylene which provide excellent impact properties especially in cold weather. The newly designed center air breather provides optimum venting performance and extremely easy to install and remove The air breather is designed with a tether connection that fastens into the rim helping to reduce misplacement.

- The Man-Way Lids are offerend in closed and vented versions depending on the customers' application.
- We also offer an inactive vent as an option to have the flexibility to convert a vent lid to a vent less lid.
- Private labeling is available on request as well as custom colors and application specific resins to meet the needs of our customers.
- Our Man-way's are certified and meet CSA and NSF/ANSI 61 for Drinking Water

Drinking Water
NSF/ANSI 61

PART #	ITEM DESCRIPTION	AIR BREATHER TYPE
KF15902MW7N	8" HDPE/BLACK MAN-WAY CLOSED COVER NO RIM	NA
KF15902MW7RN	8" HDPE/BLACK MAN-WAY CLOSED COVER WITH RIM	NA
KF15902MW8N	8" HDPE/BLACK MAN-WAY COVER WITH A/B NO RIM	A
KF15902MW8RN	8" HDPE/BLACK MAN-WAY COVER WITH A/B & RIM	A
KF15902MW9	12" HDPE/BLACK MAN-WAY CLOSED COVER NO RIM	NA
KF15902MW9R	12" HDPE/BLACK MAN-WAY CLOSED COVER WITH RIM	NA
KF15902MW10R	12" HDPE/BLACK MAN-WAY COVER A/B & RIM	B
KF15902MW1N	16" HDPE/BLACK MAN-WAY CLOSED COVER NO RIM	NA
KF15902MW1RN	16" HDPE/BLACK MAN-WAY CLOSED COVER WITH RIM	NA
KF15902MW2N	16" HDPE/BLACK MAN-WAY COVER WITH 2" A/B NO RIM	A
KF15902MW2RN	16" HDPE/BLACK MAN-WAY COVER WITH 2" A/B & RIM	A
KF15902MW2	16" HDPE/BLACK MAN-WAY COVER WITH 4" A/B NO RIM	B
KF15902MW2R	16" HDPE/BLACK MAN-WAY COVER WITH 4" A/B & RIM	B
KF15902MW4	22" HDPE/BLACK MAN-WAY CLOSED COVER NO RIM	NA
KF15902MW4R	22" HDPE/BLACK MAN-WAY CLOSED COVER WITH RIM	NA
KF15902MW5R	22" HDPE/BLACK MAN-WAY COVER WITH A/B & RIM	A

LID & RIM

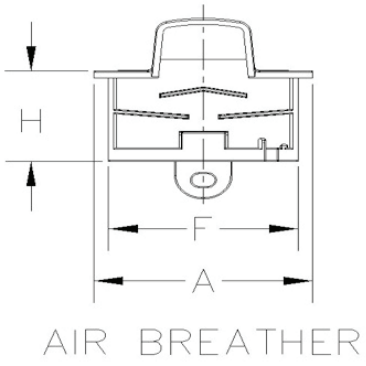


PART #	ITEM DESCRIPTION	A	F	H	I	BCD	AIR BREATHER TYPE
KF15902MW7N	8” HDPE/BLACK MAN-WAY CLOSED COVER	10.0”	8.3”	1.2”	N/A	N/A	N/A
KF15902MW8LN	8” HDPE/BLACK MAN-WAY COVER	10.0”	8.3”	1.2”	N/A	N/A	A
KF15902MWR7	8” HDPE/BLACK MAN-WAY RIM	10.1”	8.6”	1.6”	7.6”	9.5”	N/A
KF15902MW9	12” HDPE/BLACK MAN-WAY CLOSED COVER	14.0”	12.3”	1.2”	N/A	N/A	N/A
KF15902MW10L	12” HDPE/BLACK MAN-WAY COVER	14.0”	12.3”	1.2”	N/A	N/A	B
KF15902MW10R	12” HDPE/BLACK MAN-WAY RIM	14.0”	12.6”	1.5”	11.8”	N/A	N/A
KF15902MW1L	16” HDPE/BLACK MAN-WAY CLOSED COVER	17.9”	15.9”	0.9”	N/A	N/A	N/A
KF15902MW2LN	16” HDPE/BLACK MAN-WAY COVER WITH 2” OPENING	17.9”	15.9”	0.9”	N/A	N/A	A
KF15902MW2L	16” HDPE/BLACK MAN-WAY COVER WITH 4” OPENING	17.9”	15.9”	0.9”	N/A	N/A	A
KF15902MWR123	16” HDPE/BLACK MAN-WAY RIM	18.0”	16.3”	1.4”	15.1”	17.15	N/A
KF15902MW4	22” HDPE/BLACK MAN-WAY CLOSED COVER	24.3”	22.3”	1.2”	N/A	N/A	N/A
KF15902MW5L	22” HDPE/BLACK MAN-WAY COVER	24.3”	22.3”	1.2”	N/A	N/A	A
KF15902MWR456	22” HDPE/BLACK MAN-WAY RIM	24.3”	22.3”	1.5”	21.9”	22.0	N/A

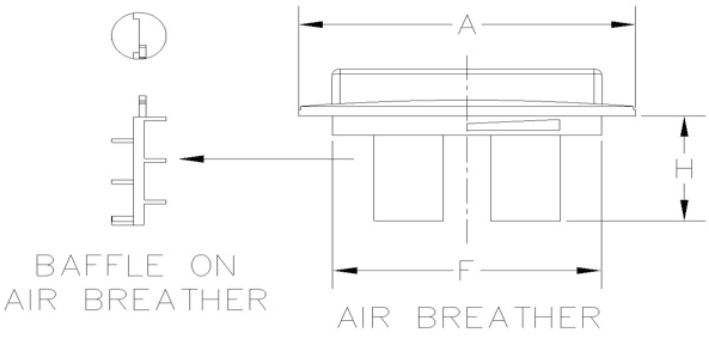
TYPE A, TYPE B & TETHER

TYPE A

ACCESSORIES	
KF15902ABS2	2” SCREEN DISC
KF15902ABS4	4” SCREEN DISC

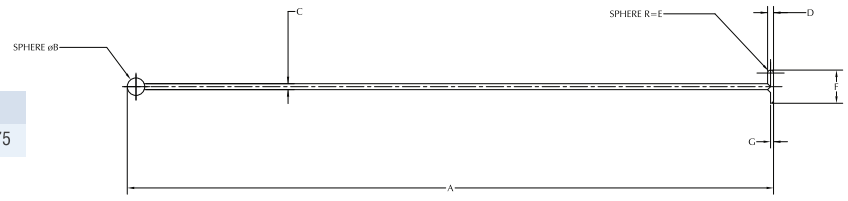


TYPE B



TETHER

DIMENSION	A	B	C	D	E	F	G
INCHES	3.15	1.45	2.95	2.85	2.375	2.375	2.375

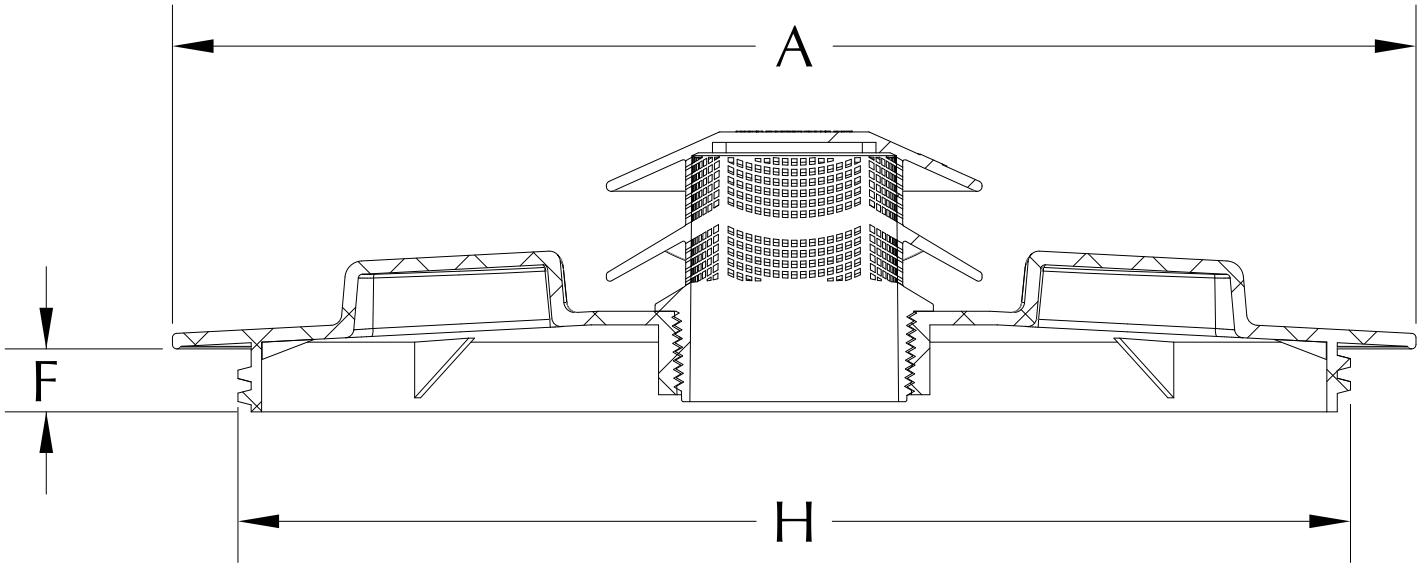


PART #	ITEM DESCRIPTION	A	F	H	TYPE
KF15902-ABN	2” AIR BREATHER	3.0”	2.6”	1.4”	A
KF15902-ABN4	4” AIR BREATHER	5.6”	4.9”	1.6”	A
KF15902AV	AIR BREATHER C/W BAFFLES	5.5”	4.4”	2.1”	B
KF15902T	LDPE/BLACK TETHER STRAP				

16” MANWAY WITH 3” VENT CAP

FEATURES

- Apart from the standard catalogue products, AIK has the ability to supply customized products to meet the specific requirements of our customers
- This 16” Manway comes with a 3” NPT thread which can incorporate a 3” Vent Cap
- The lid comes molded in High Density Polyethylene and the 3” Vent Cap is molded in Polypropylene.



SPECIFICATIONS			
DIMENSION	A	H	F
INCHES	17.8	1.12	15.95

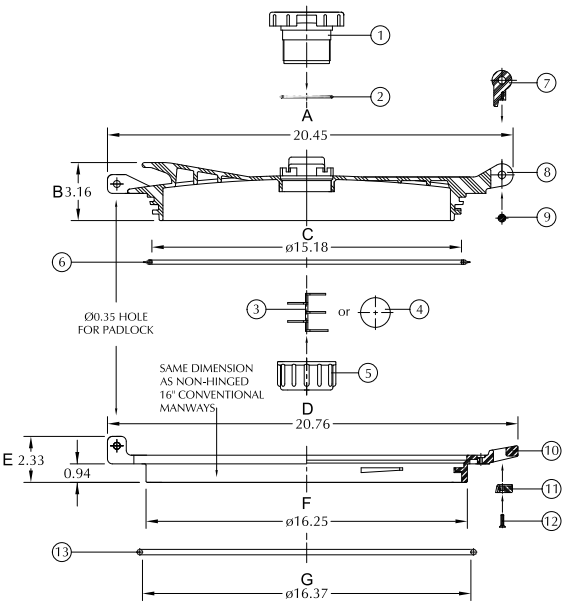
16” HINGED MANWAY

FEATURES

- Locking feature designed to accept Padlocks for tampering prevention
- Excellent venting performance. Available with two venting options: Anti-splash Baffle (standard) or Ball Check valve
- Liquid tight seal for splash resistance
- One piece molded construction allows for easy use and minimum assembly parts for failure or replacement
- Grooved profiled handles for easy turning of lid for opening and closing
- Closed version also available

DURABLE CONSTRUCTION

- Approximately 1KG heavier than our competitor’s
- Made from copolymer polypropylene resin with excellent cold weather impact resistantance (Up to -40°C or -40°F)
- Excellent U.V resistance



SPECIFICATIONS

DIMENSION	A	B	C	D	E	F	G
INCHES	20.45	3.16	15.18	20.76	2.33	16.25	16.37

ITEM	PART #	DESCRIPTION	MATERIAL
1	KF15902HMV-B	2” VENT BODY*	P.P.
2	KF15902HMCV-E50	#568-227 O-RING FOR 22” HINGED MAN-WAY LID*	EPDM
3	KF15902HMV-BF	2” VENT BAFFLE*	P.P.
4	PP 38	1-1/2” BALL FOR 2” VALVE*	P.P.
5	KF15902HMV-C	2” VENT CAP*	P.P.
6	KF15902HML-E50	16” HINGED MAN-WAY GASKET	EPDM
7	KF15902HMH-B	16” HINGED MAN-WAY LID HINGE BODY	P.P.
8	KF15902HML	16” HINGED MAN-WAY OPEN LID*	P.P.
	KF15902HMLC	16” HINGED MAN-WAY CLOSED LID	P.P.
9	KF15902HMH-P	16” HINGED MAN-WAY LID HINGE PIN	P.P.
10	KF15902HMR	16” HINGED MAN-WAY RIM	P.P.
11	KF15902HMH-BR	16” HINGED MAN-WAY LID HINGE BODY RETAINER	P.P.
12	KF15902HMH-S	3.5MM SELF TAPPING COUNTERSUNK SCREWS	STAINLESS STEEL
13	KF15902HMR-E50	16” HINGED MAN-WAY RIM SPONGE O-RING	NEOPRENE SPONGE

*** : Available only on vented version - KF15902HM**

PART #	DESCRIPTION
KF15902HM	16” PP BLACK HINGED MAN-WAY WITH RING, GASKET & VENT
KF15902HMLC	16” PP BLACK HINGED MAN-WAY WITH RING

22” HINGED MANWAYS

FEATURES

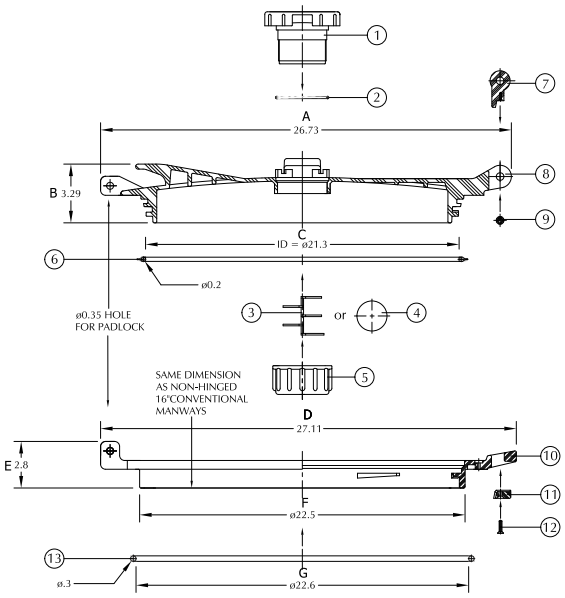
- Locking feature designed to accept Padlocks for tampering prevention
- Excellent venting performance. Available with two venting options: Anti-splash Baffle (standard) or Ball Check valve
- Liquid tight seal for splash resistance
- One piece molded construction allows for easy use and minimum assembly parts for failure or replacement
- Grooved profiled handles for easy turning of lid for opening and closing
- Closed version also available

CLOSED

OPEN

DURABLE CONSTRUCTION

- Approximately 1KG heavier than our competitor’s
- Made from copolymer polypropylene resin with excellent cold weather impact resistantance (Up to -40°C or -40°F)
- Excellent U.V resistance



SPECIFICATIONS

DIMENSION	A	B	C	D	E	F	G
INCHES	26.73	3.29	21.3	27.11	2.8	22.5	22.6

ITEM	PART #	DESCRIPTION	MATERIAL
1	KF15902HM5V-B	3-1/2” VENT BODY*	P.P.
2	KF15902HM5CV-E50	#568-238 O-RING FOR 22” HINGED MAN-WAY LID*	EPDM
3	KF15902HM5V-BF	3-1/2” VENT BAFFLE*	P.P.
4	PP70	2-3/4” BALL FOR 2” VALVE*	P.P.
5	KF15902HM5V-C	3-1/2” VENT CAP*	P.P.
6	KF15902HM5L-E50	22” HINGED MAN-WAY GASKET	EPDM
7	KF15902HM5H-B	22” HINGED MAN-WAY LID HINGE BODY	P.P.
8	KF15902HM5L	22” HINGED MAN-WAY OPEN LID*	P.P.
	KF15902HM4L	22” HINGED MAN-WAY CLOSED LID	P.P.
9	KF15902HM5H-P	22” HINGED MAN-WAY LID HINGE PIN	P.P.
10	KF15902HMR456	22” HINGED MAN-WAY RIM	P.P.
11	KF15902HM5H-BR	22” HINGED MAN-WAY LID HINGE BODY RETAINER	P.P.
12	KF15902HM5H-S	3.5MM SELF TAPPING COUNTERSUNK SCREWS	STAINLESS STEEL
13	KF15902HMR456-E50	22” HINGED MAN-WAY RIM SPONGE O-RING	NEOPRENE SPONGE

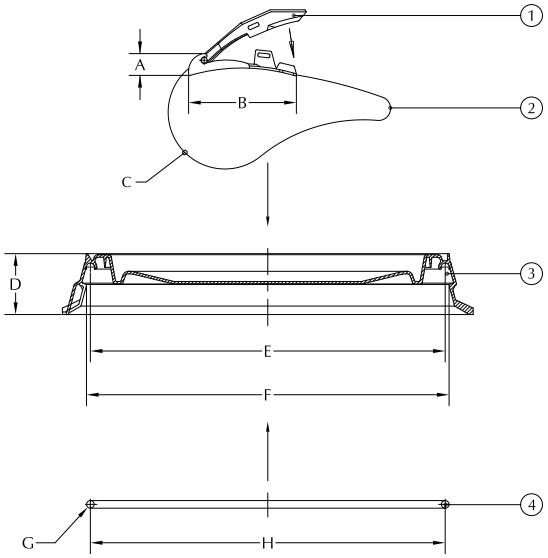
*** : Available only on vented version - KF15902HM5**

PART #	DESCRIPTION
KF15902HM5	22” PP BLACK HINGED MAN-WAY WITH RING, GASKET & VENT
KF15902HM4	22” PP BLACK HINGED MAN-WAY WITH RING

18” QUICK LOCK LID

FEATURES

AIK’s 18” Quick-Lock Lid is made from a Linear Low Density Polyethylene, providing a rugged, impact resistant, secure cover for your plastic storage tanks. It can be used for both vertical and horizontal storage tanks. The lever lock handle assembly provides security for your cover and also allows quick and easy access.



DIMENSION	A	B	C	D	E	F	G	H
INCHES	1.10	5.30	53.25	3.00	17.50	17.90	3/8	17.50

PART #	ITEM DESCRIPTION
F705918	18" PP / BLACK QUICK-LOCK LID ASSEMBLY

PART #	ITEM DESCRIPTION
F705918-H	HANDLE ASSEMBLY
F705918-L	18" LID
F705918-0	O-RING

PART #	PARTS DESCRIPTION	MATERIAL
1	18" QUICK-LOCK HANDLE	PP / BLACK
2	18" QUICK-LOCK VINYL STRAP	PP
3	18" QUICK-LOCK LID	L.L.P.E
4	18" QUICK-LOCK O-RING	EPDM SPONGE

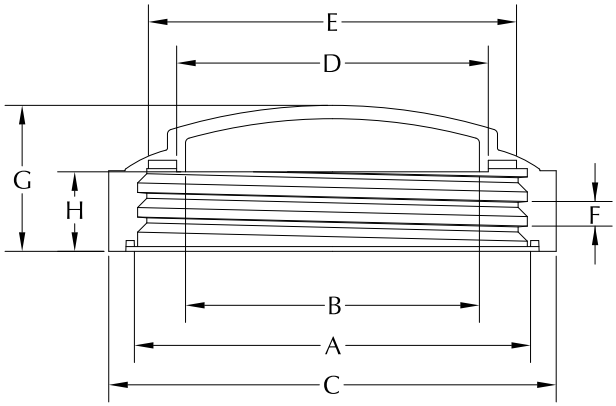
NOTE: ITEM 1 & 2 IS SOLD ASSEMBLED.

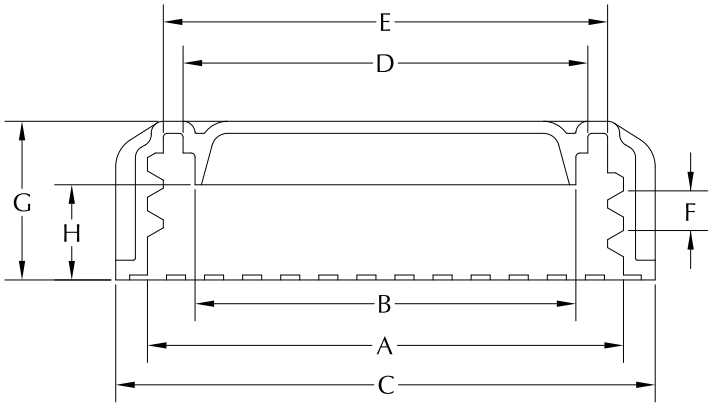
FEATURES

- Constructed of Black High Density Polyethylene, AIK Screw Caps are available in 6”, 7" and 12" sizes.
- When used with a gasket (see Screw Cap Accessories), these Screw Caps are designed for use in liquid-tight applications. The 6" and 7" caps are also available with a 2" NPT insert as a standard. Although not offered as a standard, there are various options available with the Screw Caps such as private labeling; different materials; and different NPT insert size and quantity configurations. Ask our sales representatives about the options available

SPECIFICATIONS

ITEM	A	B	C	D	E	F	G	H
6” SCREW CAP	6.2”	5.85”	6.72”	5.2”	5.85”	0.385”	2.25”	1.3”
7” SCREW CAP	7.5”	7.04”	8.6”	5.94”	7.04”	0.6”	2.5”	1.5”
12” SCREW CAP	11.5”	11.02”	13.3”	9.5”	11.02”	0.71”	0.71”	2.15”





PART #	DESCRIPTION
F7054060	6" HDPE/BLACK SCREW CAP
F7054060I-M	6" HDPE/BLACK SCREW CAP WITH 2” NPT INSERT
F7053060	6" HDPE/BLACK SCREW CAP WITH AIR CHECK VALVE
F7047060	7" PPG/BLACK SCREW CAP
F7051060	7" HDPE/BLACK SCREW CAP
F7051060I	7" HDPE/BLACK SCREW CAP WITH 2“ NPT INSERT
F7051012	12" HDPE/BLACK SCREW CAP
F7051012I	12" HDPE/BLACK SCREW CAP WITH 2” NPT INSERT

SCREW CAP GASKETS

FEATURES

- All AIK Screw Caps have gaskets available for use in liquid-tight applications
- For the 6" Caps, we offer flat EPDM or Viton Gaskets.
- For the 7" Caps, molded gaskets are available in EPDM, Viton or Santoprene. Because they're molded to fit AIK Screw Caps, these gaskets provide a better seal and they don't fall out of the Cap when the Cap is turned over.
- For the large 12" Cap, a tube gasket is available in EPDM. Other gasket materials are availale upon request

PART #	DESCRIPTION
F7047050EM	EPDM FLAT GASKET TO FIT 6" SCREW CAP
F7047050V	VITON FLAT GASKET TO FIT 6" SCREW CAP
F7047060E	EPDM MOLDED GASKET TO FIT 7" SCREW CAP
F7047060V	VITON MOLDED GASKET TO FIT 7" SCREW CAP
F7047060S	SANTOPRENE MOLDED GASKET TO FIT 7" SCREW CAP
F7060160B	EPDM TUBE GASKET TO FIT 12" SCREW CAP

ROTATIONAL MOLD INSERTS

FEATURES

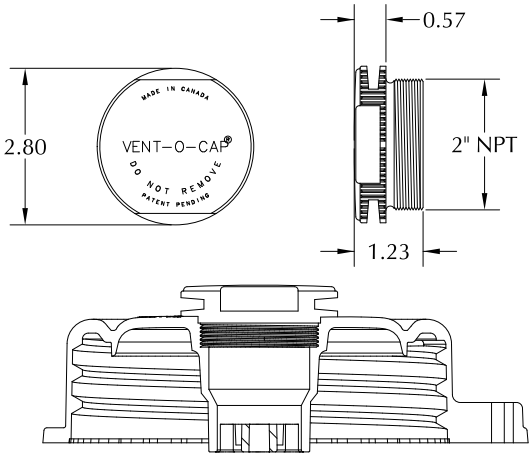
- Constructed of aluminum, these mold inserts are used when rotationally molding IBC's so that the AIK Screw Caps fit perfectly on the threads of the container.

PART #	DESCRIPTION
RMI060	ROTATIONAL MOLD INSET FOR 6" HDPE SCREW CAP
RMI070	ROTATIONAL MOLD INSET FOR 7" HDPE SCREW CAP
RMI012	ROTATIONAL MOLD INSET FOR 12" HDPE SCREW CAP

FEATURES

The Vent-O-Cap® performs the combined functions of a screw cap, a pressure relief vent and a vacuum relief vent.

- Constructed of Black High Density Polyethylene, AIK Vent-O-Caps® are available in 6", 7" and 12" sizes.
- The Vent-O-Caps® are available with EPDM or Viton vent seals and Hastelloy-C or 316 SS springs. When used with a gasket (see Screw Cap accessories) the Vent-O-Caps® are designed for use in liquid- tight applications.



SPECIFICATIONS

PRESSURE RELIEF RANGE	DIFFERENT SPRING OPTIONS AVAILABLE

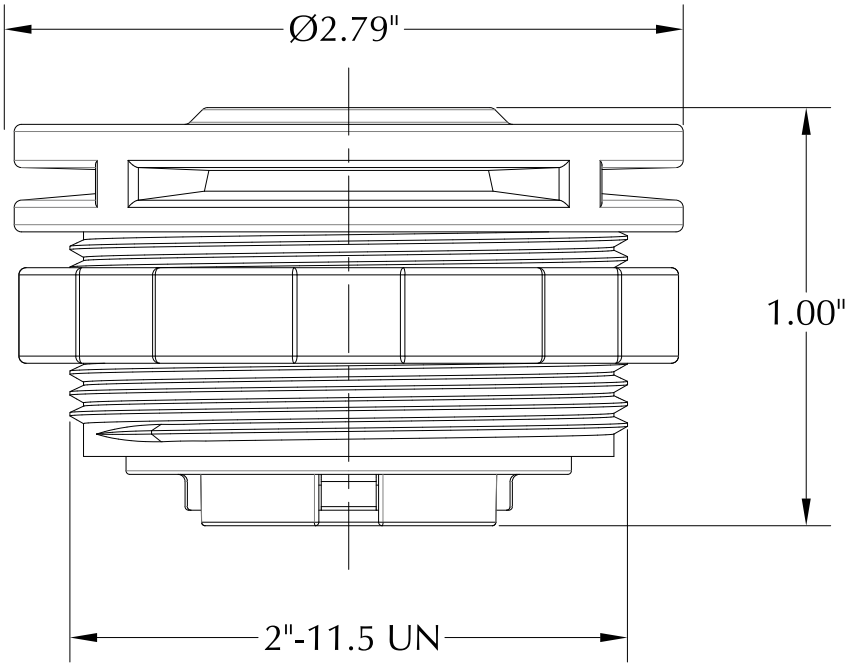
VACUUM VENT RANGE	1/4 TO 1/2 PSI
INITIAL DISCHARGE	1/2 PSI
CFM	5.8 FT3/M

PART #	ITEM DESCRIPTION
F7054060VC-SS-E	6" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & 316 SS SPRINGS
F7054060VC-SS-V	6" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & 316 SS SPRINGS
F7054060VC-HS-E	6" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & HASTELLOY-C SPRINGS
F7054060VC-HS-V	6" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & HASTELLOY-C SPRINGS
F7051070VC-SS-E	7" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & 316 SS SPRINGS
F7051070VC-SS-V	7" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & 316 SS SPRINGS
F7051070VC-HS-E	7" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & HASTELLOY-C SPRINGS
F7051070VC-HS-V	7" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & HASTELLOY-C SPRINGS
F7051070VCSSE3SZ	7" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & 316 SS SPRINGS 3-5 PSI WITH 3/4" SS ZERO VAC. BALL
F7051070VCSSV3SZ	7" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & 316 SS SPRINGS 3-5 PSI WITH 3/4" SS ZERO VAC. BALL
F7051070VC-HS-E3-5	7" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & HASTELLOY-C SPRINGS 3-5 PSI
F7051070VC-HS-V3-5	7" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & HASTELLOY-C SPRINGS 3-5 PSI
F7051012VC-SS-E	12" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & 316 SS SPRINGS
F7051012VC-SS-V	12" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & 316 SS SPRINGS
F7051012VC-HS-E	12" HDPE / BLACK VENT-O-CAP® EPDM VENT SEALS & HASTELLOY-C SPRINGS
F7051012VC-HS-V	12" HDPE / BLACK VENT-O-CAP® VITON VENT SEALS & HASTELLOY-C SPRINGS

MAXIMUS®

FEATURES

- Maximus is a well-engineered vent which provides a cost effective venting solution for your tank and IBC (Intermediate Bulk Container)
- Molded from a engineered Co-Polypropylene resin which gives the vent excellent chemical and impact resistance
- The vent is available with EPDM or Viton gasket materials
- The springs are available in Stainless steel 316 or Hastelloy-C
- Available in various configurations to offer different pressure and vacuum relief options for custom venting requirements.
- Color coded for easy identification of gasket and springs used



PART #	GASKET TYPE	SPRING TYPE	COLOR ID	PRESSURE RELIEF	VACUUM
KF159033HSV	VITON	HASTELLOY-C	RED	3 PSI	.25 PSI
KF159035HSV	VITON	HASTELLOY-C	RED	5 PSI	.25 PSI
KF159033HSE	EPDM	HASTELLOY-C	BLUE	3 PSI	.25 PSI
KF159035HSE	EPDM	HASTELLOY-C	BLUE	5 PSI	.25 PSI
KF159033SSV	VITON	SS 316	GREEN	3 PSI	.25 PSI
KF159035SSV	VITON	SS 316	GREEN	5 PSI	.25 PSI
KF159033SSE	EPDM	SS 316	BLACK	3 PSI	.25 PSI
KF159035SSE	EPDM	SS 316	BLACK	5 PSI	.25 PSI

THREADED P-VENTS® & V-VENTS®

FEATURES

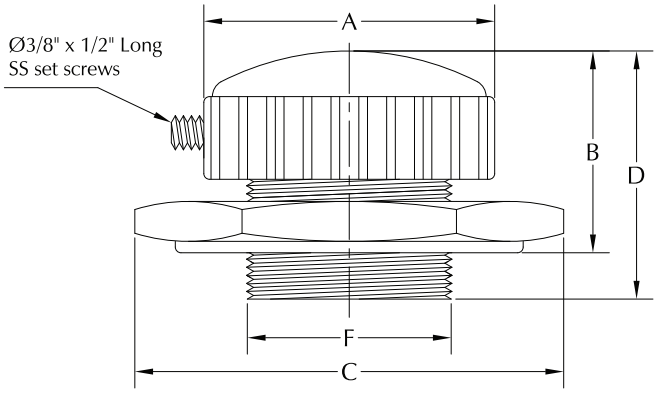
- Installed by simply screwing the Vents into a 2” NPT opening
- Constructed of High Density polyethylene
- P-Vents® : Provide pressure relief
- V-Vents® : Provide vacuum venting
- These vents are available with EPDM or Viton seals
- Springs are available in 316 Stainless steel or Hastelloy-C

SPECIFICATIONS

PRESSURE RELIEF RANGE	DIFFERENT SPRING OPTIONS AVAILABLE

VACUUM VENT RANGE	1/4 TO 1/2 PSI
INITIAL DISCHARGE	1/2 PSI
CFM	0.65 FT^3/M

DIMENSION	A	B	C	D	F*
INCHES	3.15	1.45	2.95	2.85	2.375



*** F IS INSTALLATION HOLE DIMENSION**

PART #	ITEM DESCRIPTION
F703-PV-HS-E	2” HDPE/BLACK THREADED P-VENT® EPDM SEALS & HASTELLOY-C SPRING
F703-PV-HS-V	2” HDPE/BLACK THREADED P-VENT® VITON SEALS & HASTELLOY-C SPRING
F703-PV-SS-E	2” HDPE/BLACK THREADED P-VENT® EPDM SEALS & 316 SS SPRING
F703-PV-SS-V	2” HDPE/BLACK THREADED P-VENT® VITON SEALS & SS SPRING
F703-VV-HS-E	2” HDPE/BLACK THREADED V-VENT® EPDM SEALS & 316 HASTELLOY-C SPRING
F703-VV-HS-V	2” HDPE/BLACK THREADED V-VENT® VITON SEALS & HASTELLOY-C SPRING
F703-VV-SS-E	2” HDPE/BLACK THREADED V-VENT® EPDM SEALS & 316 SS SPRING
F703-VV-SS-V	2” HDPE/BLACK THREADED V-VENT® VITON SEALS & 316 SS SPRING

BULKHEAD STYLE PRESSURE & VACUUM VENTS

FEATURES

- Installed exactly the same way as a Bulkhead Fitting would be installed
- Constructed of high strength and corrosion resistant black glass filled Polypropylene
- Vacuum venting or pressure relief option
- These vents are available with EPDM or Viton seals
- The springs are available in 316 Stainless steel or Hastelloy-C

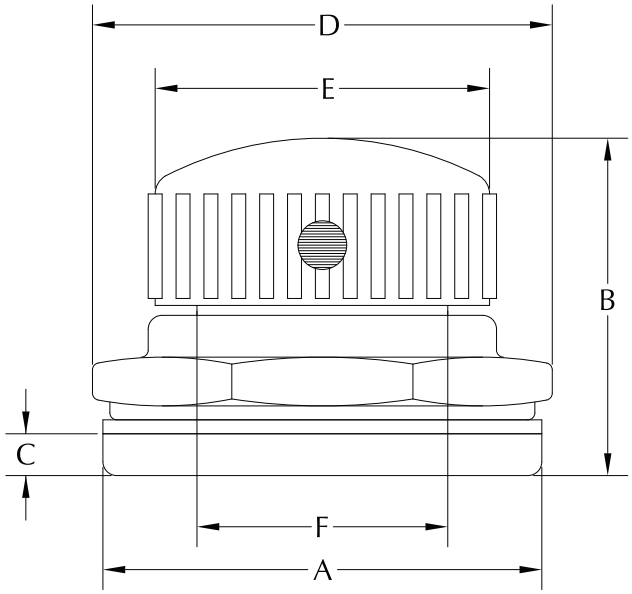
SPECIFICATIONS

PRESSURE RELIEF RANGE	DIFFERENT SPRING OPTIONS AVAILABLE

VACUUM VENT RANGE	1/4 TO 1/2 PSI
INITIAL DISCHARGE	1/4 PSI
CFM	1.09 FT^3/M

DIMENSION	A	B	C	D	E	F*
INCHES	3.94	2.13	0.38	4.13	3	2.38

*** F IS INSTALLATION HOLE DIMENSION**



PART #	ITEM DESCRIPTION
F7043020	2" PPG/BLACK BULKHEAD PRESSURE VENT EPDM SEALS & 316 SS SPRING
F7043020V	2" PPG/BLACK BULKHEAD PRESSURE VENT VITON SEALS & 316 SS SPRING
F7043020HS	2" PPG/BLACK BULKHEAD PRESSURE VENT EPDM SEALS & HASTELLOY-C SPRING
F7043020VHS	2" PPG/BLACK BULKHEAD PRESSURE VENT VITON SEALS & HASTELLOY-C SPRING
F7045020	2" PPG/BLACK BULKHEAD VACUUM VENT EPDM SEALS & 316 SS SPRING
F7045020V	2" PPG/BLACK BULKHEAD VACUUM VENT VITON SEALS & 316 SS SPRING
F7045020HS	2" PPG/BLACK BULKHEAD VACUUM VENT EPDM SEALS & HASTELLOY-C SPRING
F7045020VHS	2" PPG/BLACK BULKHEAD VACUUM VENT VITON SEALS & HASTELLOY-C SPRING

FEATURES

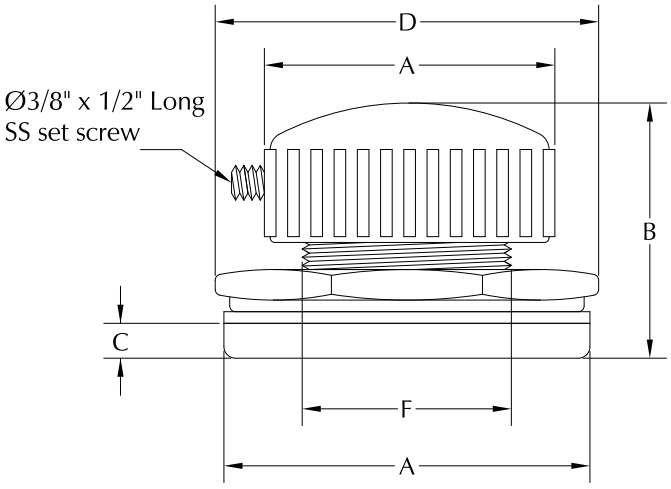
- Installed by simply screwing the Vents into a 2” NPT opening
- Constructed of High Density polyethylene
- P-Vents® : Provide pressure relief
- V-Vents® : Provide vacuum venting
- These vents are available with EPDM or Viton seals
- Springs are available in 316 Stainless steel or Hastelloy-C

SPECIFICATIONS

PRESSURE RELIEF RANGE	DIFFERENT SPRING OPTIONS AVAILABLE

VACUUM VENT RANGE	1/4 TO 1/2 PSI
INITIAL DISCHARGE	1/4 PSI
CFM	2.4 FT^3/M

DIMENSION	A	B	C	D	E	F*
INCHES	3.94	3.10	0.38	4.13	3.15	2.38



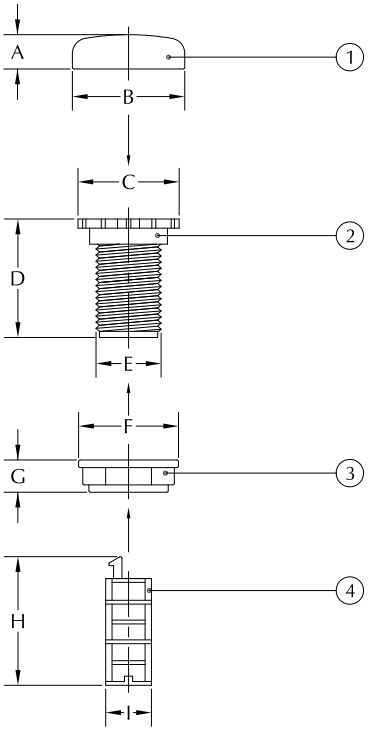
*** F IS INSTALLATION HOLE DIMENSION**

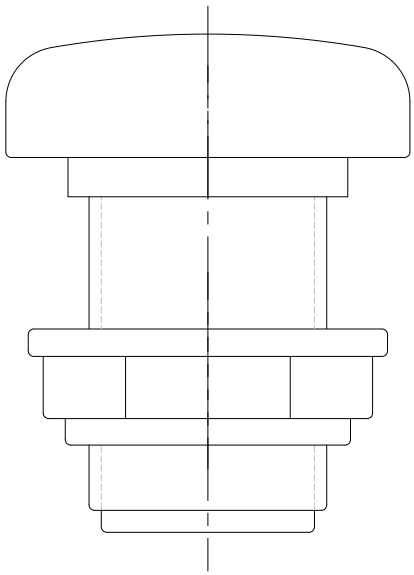
PART #	ITEM DESCRIPTION
KF15901CVEW	2" PPG/BLACK COMBIVENT® EPDM SEALS & 316 SS SPRINGS
KF15901CVEWHS	2” PPG/BLACK COMBIVENT® EPDM SEALS & HASTELLOY-C SPRINGS
KF15901CVEW3-5	2” PPG/BLACK COMBIVENT® EPDM SEALS & 3-5 PSI 316 SS SPRINGS
KF15901CVVW	2” PPG/BLACK COMBIVENT® VITON SEALS & 316 SS SPRINGS
KF15901CVVW3-5	2” PPG/BLACK COMBIVENT® VITON SEALS & 3-5 PSI 316 SS SPRINGS
KF15901CVVWHS	2” PPG/BLACK COMBIVENT® VITON SEALS & HASTELLOY-C SPRINGS

MUSHROOM VENTS

FEATURES

AIK's Mushroom vent is made from Copolymer Poly Propylene which offers great strength and impact resistance for in the field durability. This vent is designed for easy installation and allows for free flowing ventilation on tanks or any containers where air make up may be critical when either filling or discharging a tank. Installation hole size is 1-5/16 (33mm).





DIMENSION	A	B	C	D	E	F	G	H	I
INCHES	0.68	2.21	1.99	2.33	1.28	1.97	0.64	2.53	0.90

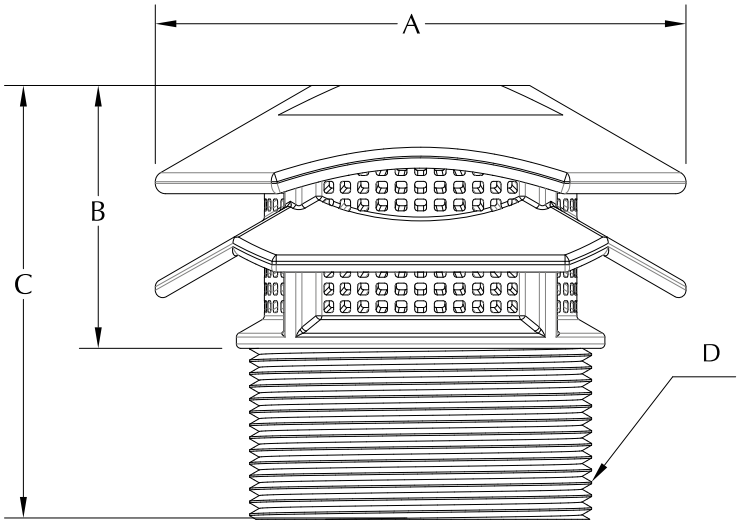
PART #	ITEM DESCRIPTION	
1	1" PP/BLACK MUSHROOM VENT ASSEMBLY	
ITEM #	**PARTS DESCRIPTION**	**MATERIAL**
1	1" MUSHROOM VENT CAP	PP/BLACK
2	1" MUSHROOM VENT BODY	PP/BLACK
3	1" MUSHROOM VENT NUT	PP/BLACK
4	1" MUSHROOM VENT BAFFLE	PP/BLACK

THREADED VENT CAPS

FEATURES

AIK's threaded one piece vent cap is molded out of a copolymer polypropylene for excellent impact resistance. The Vent is a one piece construction with the vent mesh molded in place keeping outside elements such as debris and insects. The venting area has been designed for maximum venting efficiency to compensate for negative or positive pressure built up in a tank. Male threads are standard NPT threads to install into any female NPT threaded fitting, Lid or screw cap.

- Designed for optimum venting capacity
- Keeps outside elements out of your tank (insects, debris, etc.)
- Different designs available for specific applications:
- All four sides meshed
- Two sides meshed and two sides closed *
- Two sides meshed and two sides open to act as an anti-Vortex drain *
- Key way flats for easy installation
- Mesh is moulded right into the vent body which offers a clean and one piece solution.
- Moulded from a Copolymer Polypropylene for good impact resistance
- Male threads are NPT



SPECIFICATIONS

SIZE	A	B	C	D
2”	3.6	1.8	2.9	2” NPT
3”	5.4	2.6	3.9	3” NPT

*** ONLY AVAILABLE IN 2”**

PART #	PARTS DESCRIPTION	QTY PER BOX
F70502	2“ THREADED VENT CAP 4 SIDES MESHED	100
F70503	2" THREADED VENT CAP 2 SIDES MESHED , 2 SIDES OPEN	100
F70504	2" THREADED VENT CAP 2 SIDES MESHED , 2 SIDES CLOSED	100
F70505	3" THREADED VENT CAP 4 SIDES MESHED	100

BULKHEAD FITTINGS

FEATURES

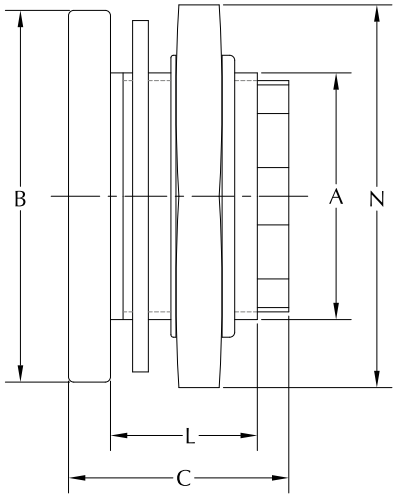
Our new and improved Bulkhead Fitting line provides our customers with a sense of security of installing a robust fitting which will stand up to almost any extreme application. The design features of these fittings are:

- Extended body height to compensate for thick tank wall applications.
- Heavy Duty cross-sectional wall thickness to with stand high torque tightening avoiding thread stripping or damage.
- Double tapped NPT threads with left hand self-tightening nut.
- Made from high quality engineered resins. PVC is a Type I Grade I Industrial Fitting Grade resin and our PPG is 20% Glass Reinforced Copolymer Polypropylene.
- Bulkheads are available on request in various other materials such as Natural Polypropylene for food applications, CPVC and PVDF for higher temperature and aggressive chemical applications.
- Standard gasket materials are EPDM and Viton.

Drinking Water
NSF/ANSI 61

SIZE	PVC	CPVC	PVDF (NATURAL)	PPG (20%)	PP (NATURAL)
1.2"	P7025807DTN	CP7025807DT	PV7025807DT	PBG7025807DTN	PP7025807DT
3/4"	P7025808DTN	CP7025808DT	PV7025808DT	PBG7025808DTN	PP7025808DT
1"	P7025809DTN	CP7025809DT	PV7025809DT	PBG7025809DTN	PP7025809DT
1-1/4"	P7025810DTN	CP7025810DT	PV7025810DT	PBG7025810DTN	PP7025810DT
1-1/2"	P7025811DTN	CP7025811DT	PV7025811DT	PBG7025811DTN	PP7025811DT
2"	P7025812DTN	CP7025812DT	PV7025812DT	PBG7025812DTN	PP7025812DT
3"	P7025814DT	CP7025814DT	PV7025814DT	PBG7025814DT	PP7025814DT
4"	P7025816DT	CP7025816DT	PV7025816DT	PBG7025816DT	PP7025816DT
1-1/2" HEAVY-DUTY	P7025811DTNHD			PBG7025811DTNHD	
2" HEAVY-DUTY	P7025812DTNHD			PBG7025812DTNHD	

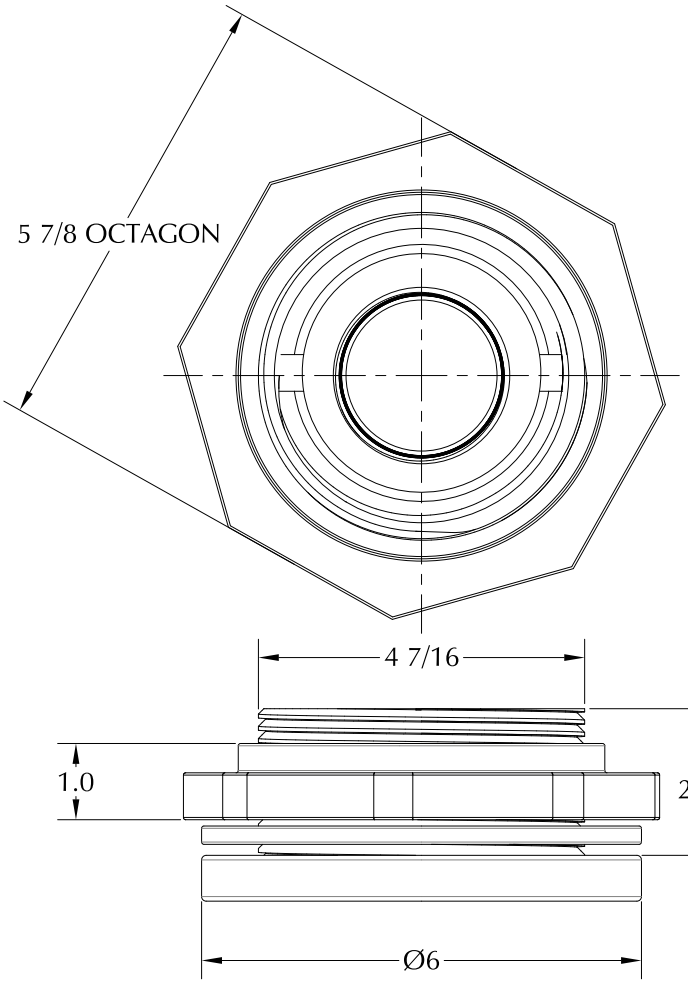
SIZE	A	B	C	N	L	INSTALLATION HOLE
1/2"	1.39”	2.18”	2.25”	2.18”	1.33”	1-7/16”
3/4"	1.39”	2.18”	2.25”	2.18”	1.33”	1-7/16”
1"	2.27”	3.26”	3.05”	3.06”	2.13”	2-5/16”
1-1/4"	2.27”	3.26”	3.05”	3.06”	2.13”	2-5/16”
1-1/2"	3.01”	4.58”	3.14”	4.61”	2.02”	3-1/16”
2"	3.01”	4.58”	3.14”	4.61”	2.02”	3-1/16”
3"	4.47”	6.00”	3.62”	5.99”	2.23”	4-1/2”
4"	5.64”	8.86”	6.00”	8.87”	3.73”	5-11/16”
1-1/2" HEAVY-DUTY	3.04”	5.6”	3.36”	5.75”	1.98”	3-1/16”
2' HEAVY DUTY	3.04”	5.6”	3.36”	5.75”	1.98”	3-1/16”

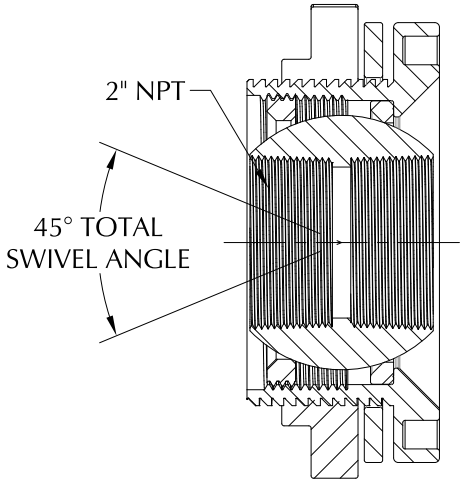


FEATURES

AIK's 2" Self Aligning Bulkhead fitting: Features a unique swivel ball design. The piping connection to the fitting is made into a threaded ball that swivels on a HDPE seat. Once the connection is positioned at the desired offset angle, a plastic lock ring firmly hold it in position. A swivel angle of 45° is possible.

- These tank adapters allow all piping connections to and from tanks to be made in a straight line without fabricating special fittings to correct to the tank curvature. They're correct for any misalignment or offsets
- Installation is quick — no special tools or fittings are required. The unique seal and lock ring permit easy ball rotation and positive sealing.
- Self-aligning bulkhead fittings are meant for above liquid applications only.





SIPHON TUBES

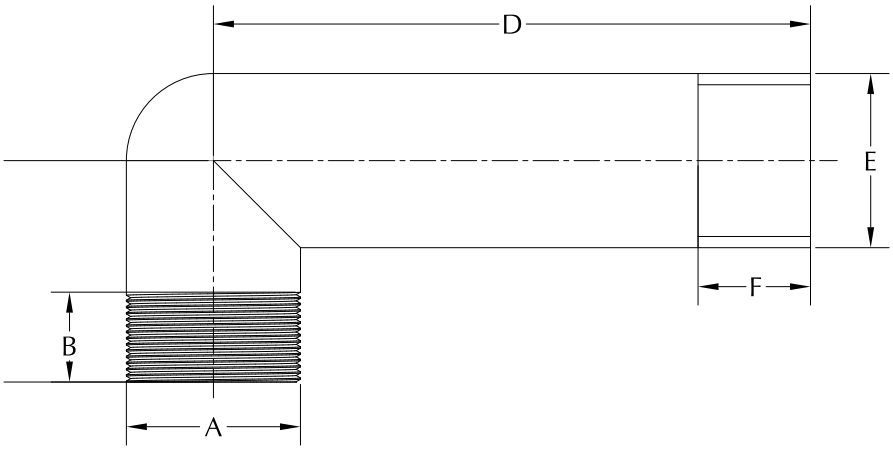
FEATURES

AIK's siphon tubes are made out of durable copolymer polypropylene for excellent impact resistance. The male threads are NPT standard threads to thread into a standard female NPT threaded coupling, boss, tank adapter or spin weld fitting or any other type of tank wall mounted fitting.

- Long extension of the siphon tube section allows for a higher tank wall mounting to avoid uneven wall surfaces
- Slotted ends on the siphon tube allows for excellent fill and discharge performance
- Molded from copolymer polypropylene for great impact

SPECIFICATIONS

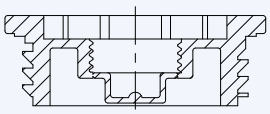
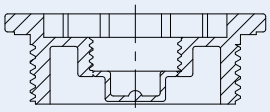
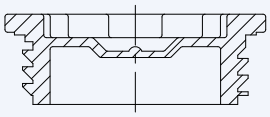
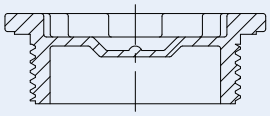
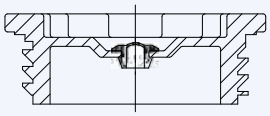
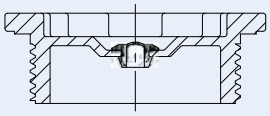
SIZE	PART #	A	B	C	D	E	F
1-1/2"	SE015PP	1-1/2 - 11.5 NPT	1.06	4.53	12.03	1.89	1.75
2"	SE002PP	2 - 11.5 NPT	1.06	4.53	12.03	2.35	1.75
2"	SE002PPS	2 - 11.5 NPT	0.80	2.54	3.82	2.38	0.77
3"	SE003PP	3 - 8 NPT	1.65	4.45	12.03	3.50	2.28
4"	SE004PP	4 - 8 NPT	2.00	6.75	8.50	4.50	N/A



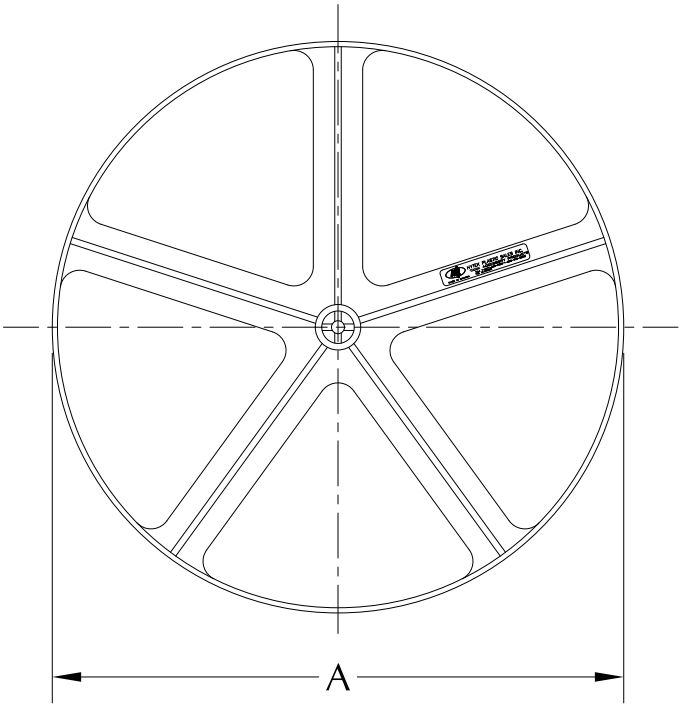
PART #	ITEM DESCRIPTION	QTY PER BOX
SE015PP	1+1/2" X 12" SIPHON TUBE	40
SE002PP	2" X 12" SIPHON TUBE	20
SE002PPS	2" NPT SHORT SIPHON TUBE	20
SE003PP	3" X 12" SIPHON TUBE	12
SE004PP	4" X 12" SIPHON TUBE	7

FEATURES

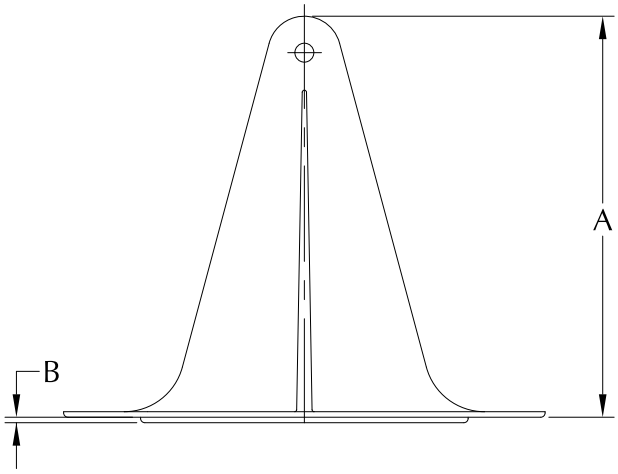
AIK's Poly Plugs are tough and durable drum-plugs for various types of closure applications. Poly Plugs are molded from a High-Density Polyethylene which contains UV stabilizers and meet FDA guidelines for food applications

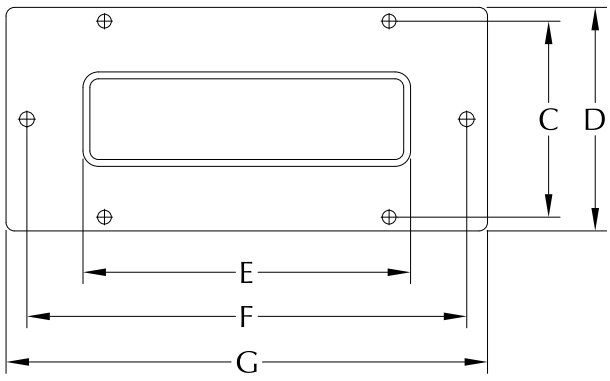
PART DRAWINGS	PART #	VACUUM
	BP001	2" BUTTRESS THREAD C/W 3/4" STANDARD THREAD OPENING
	BP002	2" NPS THREAD C/W 3/4" STANDARD THREAD OPENING
	BP003	2" BUTTRESS THREAD CLOSED
	BP004	2" NPS THREAD CLOSED
	BP005	2" BUTTRESS THREAD C/W PRESSURE RELIEF MEMBRANE
	BP006	2" NPS THREAD C/W PRESSURE RELIEF MEMBRANE
	BP007-E BP007-B BP007-V	STANDARD O-RING # AS568-332. MATERIAL : EPDM STANDARD O-RING # AS568-332. MATERIAL : BUNA STANDARD O-RING # AS568-332. MATERIAL : VITON
	BP008-E BP008-B BP008-V	GASKET FOR NPS THREAD. MATERIAL : EPDM GASKET FOR NPS THREAD. MATERIAL : BUNA GASKET FOR NPS THREAD. MATERIAL : VITON
	BP008-E BP008-B BP008-V	GASKET FOR BUTTRESS THREAD. MATERIAL : EPDM GASKET FOR BUTTRESS THREAD. MATERIAL : BUNA GASKET FOR BUTTRESS THREAD. MATERIAL : VITON

LICK WHEEL & STAND



PART #	ITEM DESCRIPTION	A	H
LWW022	22" LICK WHEEL	22”	1.92”
LW022	22" LICK WHEEL ASSEMBLY		

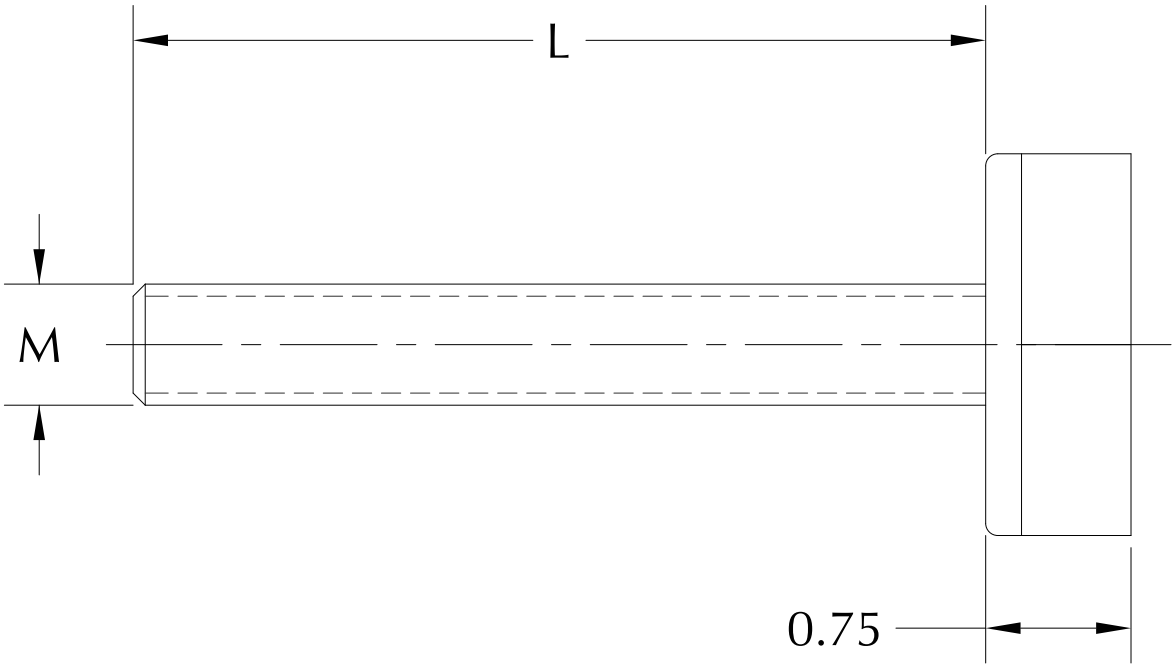




PART #	ITEM DESCRIPTION	A	H	C	D	E	F	G
LWW022	LICK WHEEL STAND	11.68”	0.16”	5.69”	6.5”	8.25”	12.62”	14”
LW022	5/64” LICK WHEEL STAND STAINLESS STEEL COTTER PIN							

FEATURES

- AIK's PE Encapsulated Bolts are Insert-molded with High Density Polyethylene.
- Provides excellent resistance to chemicals and corrosion in aggressive chemical environment.
- The threads are available in Stainless Steel (SS316), Hastelloy-C and Titanium.
- PE Encapsulated bolts come standard with SS316 threads.



PART #	ITEM DESCRIPTION	THREAD SIZE (M)	LENGTH (L)
EBPE005 / AIK500PE	1/2" X 3" PE ENCAPSULATED BOLTS SS316	1/2 - 13 UNC	3"
AIK625PE	5/8" X 3" PE ENCAPSULATED BOLTS SS316	5/8" - 11 UNC	3"
AIK750PE	3/4" X 3" PE ENCAPSULATED BOLTS SS316	3/4 - 10 UNC	3"
CUSTOM CONFIGURATIONS AVAILABLE ON REQUEST			

PE THREADED COUPLINGS

FEATURES

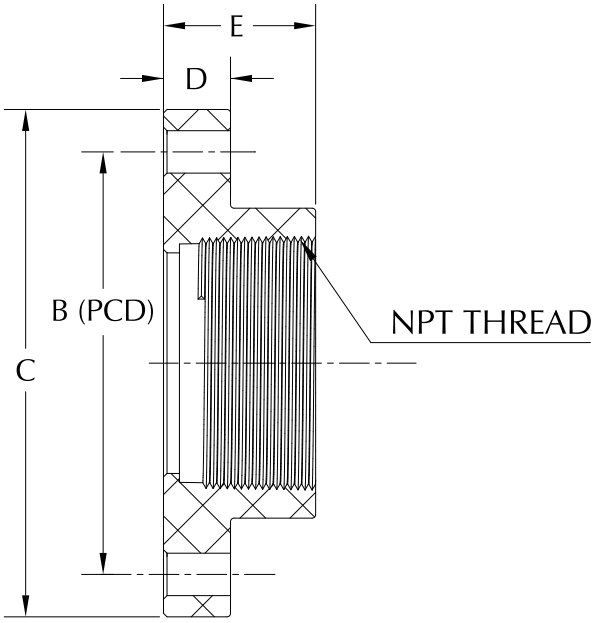
- Our PE threaded couplings are made of Rotational Molding grade Polyetylene which allows it to be welded to a Rotomolded Tank
- This is an example of our capability to provide custom molded products to suit our customers' needs.

PART #	ITEM DESCRIPTION
E8460005	1/2" PE/NAT S80 THD X THD COUPLING
E8460007	3/4" PE/NAT S80 THD X THD COUPLING
E8460010	1" PE/NAT S80 THD X THD COUPLING
E8460012	1-1/4" PE/NAT S80 THD X THD COUPLING
E8460015	1-1/2" PE/NAT S80 THD X THD COUPLING
E8460020	2" PE/NAT S80 THD X THD COUPLING
E8460025	2-1/2" PE/NAT S80 THD X THD COUPLING
E8460030	3" PE/NAT S80 THD X THD COUPLING
E8460040	4" PE/NAT S80 THD X THD COUPLING
E8460060	6" PE/NAT S80 THD X THD COUPLING

THREADED FLANGES WITH ENCAPSULATED BOLTS

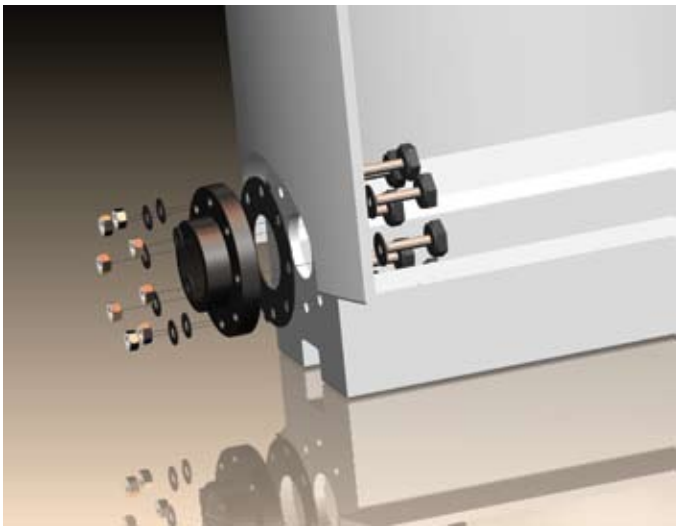
FEATURES

- AIK's Threaded flanges are molded using Glass filled (20%) Polypropylene.
- Provides excellent resistance to chemicals and corrosion in aggressive chemical environment.
- The threads are available in 2", 3" & 4" NPT sizes.



SPECIFICATIONS

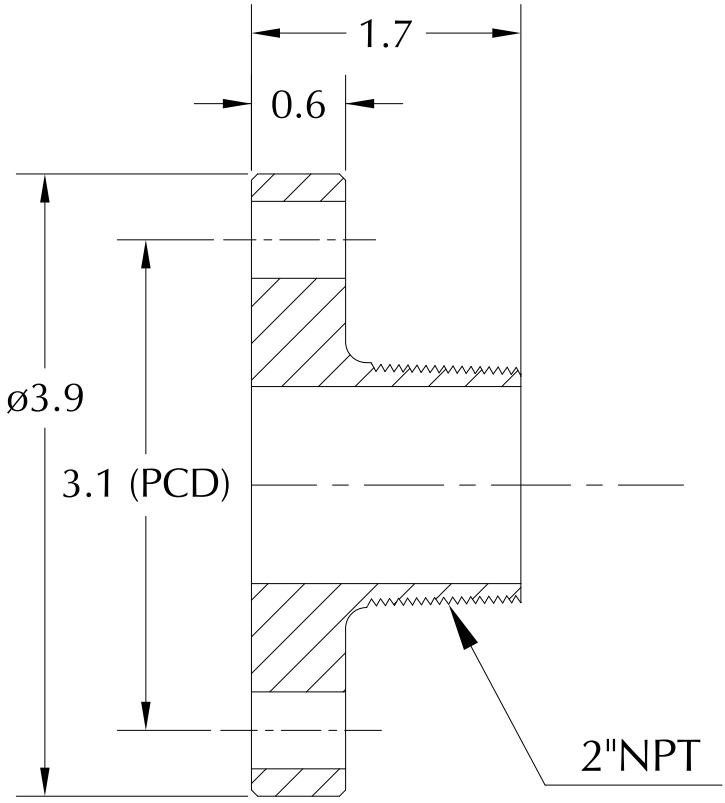
NPT THREAD SIZE	B	C	D	E
2" NPT	4.7	6.0	0.9	1.7
3" NPT	6.0	7.5	1.1	2.2
4" NPT	7.5	9.0	1.1	2.6



ADAPT-A-FLANGE® WITH ENCAPSULATED BOLTS

FEATURES

- AIK's Adapt-a-flange is molded from Glass filled (20%) Polypropylene.
- The flange comes with a 2" male NPT thread



FLOW CONVERSION TABLE

	Liters per second	Liters per minute	Liters per hour	Cubic feet per second	Cubic feet per minute	Gallons (US) per second	Gallons (US) per minute	Million gallons (US) per day
	(l/s)	(l/m)	(l/hr)	(CFS)	(CFM)	(GPS)	(GPM)	(MGD)
l/s	1	60.0000	3600.00	0.0353157	2.11894	0.264179	15.85077	0.0228251
l/m	0.01666667	1	60.0000	5.88594e-4	0.0353157	0.00440299	0.264179	3.80418e-4
l/hr	2.77778e-4	0.01666667	1	9.80990e-6	5.88594e-4	7.33832e-5	0.00440299	6.34031e-6
CFS	28.3161	1698.963	101937.8	1	60.0000	7.48052	448.831	0.646317
CFM	0.471934	28.3161	1698.963	0.01666667	1	0.1246753	7.48052	0.01077195
GPS	3.78531	227.118	13627.10	0.1336806	8.02083	1	60.0000	0.0864000
GPM	0.0630884	3.78531	227.118	0.00222801	0.1336806	0.01666667	1	0.001440000
MGD	43.8114	2628.68	157721.1	1.547229	92.8337	11.57407	694.444	1

VOLUME CONVERSION TABLE

	Liter	Cubic cm (cc)	Cubic meters	Gallons (US)	Cubic in. (cu in).	Cubic ft. (cu ft)	Acre ft	Cu ft per sec day (CFSD)
Liter	1	1000.028	0.001000028	0.264179	61.0255	0.0353157	8.10736e-7	4.08746e-7
cc	9.99972e-4	1	1e-6	2.64172e-4	0.0610237	3.53147e-5	8.10713e-10	4.08735e-10
cu meters	999.972	1e6	1	264.172	61023.7	35.3147	8.10713e-4	4.08735e-4
Gal.(US)	3.78531	3785.41	0.00378541	1	2310.1336806	3.06888e-6	1.547229e-6	
cu in.	0.01638661	16.38706	1.638706e-5	0.00432900	1	5.78704e-4	1.328521e-8	6.69796e-9
cu ft.	28.3161	28316.8	0.0283168	7.48052	1728	1	2.29568e-5	1.157407e-5
Acre ft	1.233447e6	1.233482e9	1233.482	325851	7.52717e7	43560.0	1	0.504167
CFSD	2.44651e6	2.44658e9	2446.58	646317	1.492992e8	86400	1.983471	1

MASS CONVERSION TABLE ("WEIGHT")

	Kilogram (kg)	Grams (g)	Pounds (lb)	Ounce (oz)
kilograms (kg)	1	1000	2.20462	35.2740
grams (g)	0.001	1	0.00220462	0.0352740
pounds (lb)	0.453592	453.592	1	16
ounces (oz)	0.0283495	28.3495	0.0625000	1

Example

To convert pounds into ounces, find the row that is labeled "lb." Look across to the column labeled "ounce." The number at that intersection is 16. Multiply pounds by 16 to convert to ounces. **22 x 16 = 352 |** Therefore 22 pounds is the same as 352 ounces.

CHEMICAL RESISTANCE GUIDE FOR PIPES, VALVES & FITTINGS

This chemical resistance guide has been compiled to assist the piping system designer in selecting chemical resistant materials. The information given is intended as a guide only. Many conditions can affect the material choices. Careful consideration must be given to temperature, pressure and chemical concentrations before a final material can be selected. Thermoplastics and elastomers physical characteristics are more sensitive to temperature than metals. For this reason, a rating chart has been developed for each.

MATERIAL RATING FOR THERMOPLASTICS & ELASTOMERS

- Temp. in °F = "A" rating, maximum temperature which material is recommended, resistant under normal conditions.
- B to Temp. in °F = Conditional resistance, consult factory.
- C = Not recommended.
- Blank = No data available.

MATERIAL RATINGS FOR METALS

- A = Recommended, resistant under normal conditions.
- B = Conditional, consult factory.
- C = Not recommended.
- Blank = No data available.

Temperature maximums for thermoplastics, elastomers and metals should always fall within published temp / pressure ratings for individual valves. THERMOPLASTICS ARE NOT RECOMMENDED FOR COMPRESSED AIR ORGAS SERVICE. This guide considers the resistance of the total valve assembly as well as the resistance of individual trim and fitting materials. The rating assigned to the valve body plus trim combinations is always that of the least resistant part. In the cases where the valve body is the least resistant, there may be conditions under which the rate of corrosion is slow enough and the mass of the body large enough to be usable for a period of time. Such use should always be determined by test before installation of the component in a piping system. In the selection of a butterfly valve for use with a particular chemical, the liner, disc, and stem must be resistant. All three materials should carry a rating of "A". The body of a properly functioning butterfly valve is isolated from the chemicals being handled and need not carry the same rating.

ABS — (Acrylonitrile-Butadiene-Styrene) Class 4-2-2 conforming to ASTM D1788 is a time proven material. The smooth inner surface and superior resistance to deposit formation makes ABS drain, waste, and vent material ideal for residential and commercial sanitary systems. The residential DWV system can be exposed in service to a wide temperature span. ABS-DWV has proven satisfactory for use from -40°F to 180°F. These temperature variations can occur due to ambient temperature or the discharge of hot liquids into the system. ABS-DWV is very resistant to a wide variety of materials ranging from sewage to commercial household chemical formulations. ABS-DWV is joined by solvent cementing or threading and can easily be connected to steel, copper, or cast iron through the use of transition fittings.

CPVC — (Chlorinated Polyvinyl Chloride) Class 23447- B, formerly designated Type IV, Grade 1 conforming to ASTM D-1784 has physical properties at 73°F similar to those of PVC, and its chemical resistance is similar to or generally better than that of PVC. CPVC, with a design stress of 2000 psi and maximum service temperature of 210°F, has proven to be an excellent material for hot corrosive liquids, hot and cold water distribution, and similar applications above the temperature range of PVC. CPVC is joined by solvent cementing, threading or flanging.

P.P. (Polypropylene) — (PP) Type 1 Polypropylene is a polyolefin which is lightweight and generally high in chemical resistance. Although Type 1 polypropylene conforming to ASTM D-2146 is slightly lower in physical properties compared to PVC, it is chemically resistant to organic solvents as well as acids and alkalies. Generally, polypropylene should not be used in contact with strong oxidizing acids, chlorinated hydrocarbons, and aromatics. With a design stress of 1000 psi at 73°F, polypropylene has gained wide acceptance where its resistance to sulfur-bearing compounds is particularly useful in salt water disposal lines, crude oil piping, and low pressure gas gathering systems. Polypropylene has also proved to be an excellent material for laboratory and industrial drainage where mixtures of acids, bases, and solvents are involved. Polypropylene is joined by the thermo-seal fusion process, threading or flanging. At 180°F., or when threaded, P.P. should be used for drainage only at a pressure not exceeding 20 psi.

PVC — (Polyvinyl Chloride) Class 12454-B, formerly designated Type 1, Grade 1. PVC is the most frequently specified of all thermoplastic materials. It has been used successfully for over 30 years in such areas as chemical processing, industrial plating, chilled water distribution, deionized water lines, chemical drainage, and irrigation systems. PVC is characterized by high physical properties and resistance to corrosion and chemical attack by acids, alkalies, salt solutions, and many other chemicals. It is attacked, however, by polar solvents such as ketones, some chlorinated hydrocarbons and aromatics. The maximum service temperature of PVC is 140°F. With a design stress of 2000 psi, PVC has the highest long term hydrostatic strength at 73°F of any of the major thermoplastics being used for piping systems. PVC is joined by solvent cementing, threading, or flanging.

PVDF — (KYNAR®) (Polyvinylidene Fluoride) is a strong, tough and abrasion resistant fluorocarbon material. It resists distortion and retains most of its strength to 280°F. It is chemically resistant to most acids, bases, and organic solvents and is ideally suited for handling wet or dry chlorine, bromine and other halogens. No other solid thermoplastic piping components can approach the combination of strength, chemical resistance and working temperatures of PVDF. PVDF is joined by the thermo-seal fusion process, threading or flanging.

EPDM — EPDM is a terpolymer elastomer made from ethylenepropylene diene monomer. EPDM has good abrasion and tear resistance and offers excellent chemical resistance to a variety of acids and alkalies. It is susceptible to attack by oils and is not recommended for applications involving petroleum oils, strong acids, or strong alkalies. It has exceptionally good weather aging and ozone resistance. It is fairly good with ketones and alcohols and has an excellent temperature range from -20°F to 250°F.

HYPALON® (CSM) — Hypalon has very good resistance to oxidation, ozone, and good flame resistance. It is similar to neoprene except with improved acid resistance where it will resist such oxidizing acids as nitric, hydrofluoric, and sulfuric acid. Abrasion resistance of Hypalon is excellent, about the equivalent of the nitriles. Oil and solvent resistance is somewhat between that of neoprene and nitrile Salts have little if any effect on Hypalon. Hypalon is not recommended for exposure to concentrated oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons. Hypalon has a normal temperature range of -20°F to 200°F.

NEOPRENE (CR) — Neoprenes were one of the first synthetic rubbers developed. Neoprene is an all purpose polymer with many desirable characteristics and features high resiliency with low compression set, flame resistance, and is animal and vegetable oil resistant. Neoprene is principally recommended for food and beverage service. Generally, neoprene is not affected by moderate chemicals, fats, greases, and many oils and solvents. Neoprene is attacked by strong oxidizing acids, most chlorinated solvents, esters, ketones, aromatic hydrocarbons, and hydraulic fluids. Neoprene has a moderate temperature range of -20°F to 160°F.

NITRILE (NBR) — (BUNA-N) is a general purpose oil resistant polymer known as nitrile rubber. Nitrile is a copolymer of butadiene and acrylonitrile and has a moderate temperature range of -20°F to 180°F. Nitrile has good solvent, oil, water, and hydraulic fluid resistance. It displays good compression set, abrasion resistance and tensile strength. Nitrile should not be used in highly polar solvents such as acetone and methyl ethyl ketone, nor should it be used in chlorinated hydrocarbons, ozone or nitro hydrocarbons.

FLUOROCARBON (FKM) (VITON®) (FLUOREL®) — Fluorocarbon elastomers are inherently compatible with a broad spectrum of chemicals. Because of this extensive chemical compatibility, which spans considerable concentration and temperature ranges, fluorocarbon elastomers have gained wide acceptance as a material of construction for butterfly valve O-rings and seats. Fluorocarbon elastomers can be used in most applications involving mineral acids, salt solutions, chlorinated hydrocarbons, and petroleum oils. They are particularly good in hydrocarbon service. Fluorocarbon elastomers have one of the broadest temperature ranges of any of the elastomers, -20°F to 300°F, however, are not suitable for steam service.

TEFLON® (PTFE) — Polytetrafluoroethylene has outstanding resistance to chemical attack by most chemicals and solvents. PTFE has a temperature rating of -20°F to 400°F in valve applications. PTFE, a self-lubricating compound, is used as a seat material in ball valves.

VITON is a registered trademark of the DuPont Company
TEFLON is a registered trademark of the DuPont Company
HYPALON is a registered trademark of the DuPont Company
KYNAR is a registered trademark of the Pennwalt Company
FLUOREL is a registered trademark of the 3M Company

Alphabetical Listing of Materials	Concentration + Weight %	ABS	Acetal	Acrylic	CAB	CPVC	ECTFE (Halar®)	HDPE	Nylon®, Type 6/6	PEEK	PET	Polycarbonate	Polypropylene	Polysulfone	PPS	PVC, Type I	PVC, Type II	PVDF	PTFE
Acetaldehyde Aq.	40	D	A	D	*	D	*	C	B	A	A	*	C	*	A	D	D	D	A
Acetic Acid Aq.	10	*	B	B	C	A	A	*	C	A	B	D	*	A	A	A	A	B	A
Acetone		D	B	D	*	D	A	A	A	B	B	C	A	B	A	D	D	D	A
Alcohols, Aliphatic		*	A	D	*	*	A	*	B	A	A	*	*	*	A	*	*	A	A
Aluminum Chloride Aq.	10	*	*	*	A	A	*	B	*	A	A	A	A	*	A	A	A	A	A
Aluminum Sulphate Aq.	10	*	*	*	A	A	A	A	*	A	*	A	A	*	A	A	A	A	A
Ammonia Gas		*	*	*	*	A	A	A	C	A	A	*	A	*	*	A	A	D	A
Ammonium Carbonate Aq.	10	*	*	*	*	A	A	A	A	A	A	D	A	*	A	A	A	A	A
Ammonium Chloride Aq.	10	*	*	*	A	A	A	A	A	A	A	C	A	*	A	A	A	A	A
Amyl Acetate		D	*	D	*	*	*	D	A	A	*	*	D	*	A	D	D	B	A
Aniline		*	A	D	*	D	A	A	C	A	A	*	C	*	A	D	D	C	A
Antimony Trichoride Aq.	10	*	*	A	*	A	A	A	C	A	*	*	A	*	*	A	A	*	A
Barium Chloride Aq.	10	*	*	A	*	A	A	A	A	A	*	*	A	*	A	A	A	A	A
Barium Sulphate Aq.	10	*	*	*	*	A	A	A	*	A	*	*	A	*	*	A	A	*	A
Benzene		D	A	D	D	D	A	D	A	A	A	D	D	D	A	D	D	C	A
Benzene Sulphonic Acid	10	*	*	*	*	*	A	A	D	A	*	*	*	*	A	*	*	B	A
Bleaching Lye	10	C	*	*	*	A	A	B	C	A	*	*	B	*	*	A	A	A	A
Boric Acid Aq.	10	*	*	*	*	A	A	A	A	A	A	*	A	*	A	A	A	A	A
Boron Trifluoride		*	*	*	*	A	*	A	D	*	*	*	A	*	*	A	A	A	*
Bromine Aq.	30	*	*	*	*	D	A	D	D	B	*	*	D	*	A	A	D	A	*
Butanol		*	*	*	*	A	*	A	B	A	B	*	*	C	A	A	D	*	A
Butyric Acid Aq.	20	*	*	C	*	*	*	D	B	A	*	*	D	*	A	*	*	A	A
Butyric Acid	COINC	D	*	D	*	*	*	D	C	A	*	*	D	*	A	A	D	A	A
Calcium Hypochlorite		*	*	*	C	*	A	A	D	A	A	C	A	*	A	A	A	A	A
Camphor		*	*	*	*	*	*	*	A	A	*	*	*	*	A	*	*	*	A
Carbon Tetrachloride		D	A	*	C	C	A	D	A	A	A	*	D	A	A	C	D	A	A
Chloral Hydrate		*	*	*	*	A	*	D	D	A	*	*	D	*	*	A	A	A	A
Chlorine Aq.	10	*	*	*	*	A	*	C	D	A	*	*	B	D	*	A	A	B	A
Chloroform		D	*	*	D	D	A	C	D	A	D	D	D	D	A	D	D	B	A
Chlorosulphonic Acid Aq.	10	*	*	D	*	*	A	D	D	A	*	*	C	*	D	C	C	D	A
Chrome Alum Aq.	10	*	*	*	*	*	*	*	A	A	*	*	*	*	*	A	A	A	A
Chromic Acid Aq.	10	*	*	D	A	A	A	A	C	A	A	C	A	D	B	A	D	B	A
Citric Acid Aq.	10	B	*	C	B	A	A	A	C	A	A	A	A	A	A	A	A	A	A
Creosote		*	*	*	*	*	*	*	A	A	*	*	*	*	*	*	*	A	A
Cresylic Acid		*	*	*	*	A	A	D	D	A	*	*	D	*	*	A	C	A	A
Cyclohexanol		*	*	*	*	D	A	D	B	A	A	*	D	*	A	D	D	A	A
Cyclohexanone		*	*	*	D	D	A	D	A	A	A	*	D	D	*	D	D	A	A
Detergents, Organic		*	*	*	*	A	A	*	A	A	A	*	*	*	A	A	A	*	A
Dibutylphthalate		*	*	*	*	*	*	*	A	A	*	*	*	*	*	*	*	D	A
Diesel Oil		*	*	A	*	*	A	*	A	A	A	*	*	*	A	*	*	*	A
Dioxan		*	A	*	*	*	A	*	A	A	A	*	*	*	*	*	*	*	A
Edible Oils		*	A	*	*	*	*	*	A	A	A	*	*	*	A	*	*	A	A
Ether, Diethyl		*	A	*	*	*	*	*	A	A	A	*	*	*	A	*	*	*	A
Ethyl Acetate		D	*	D	*	*	A	C	A	A	*	D	A	*	A	D	D	D	A
Ethylene Dichloride		D	*	*	*	D	A	D	B	A	A	*	D	*	A	D	D	A	A
Ethylene Glycol Aq.	96	*	*	A	D	A	A	A	B	A	*	C	A	A	A	A	A	A	A
Ferrous Chloride Aq.	10	*	*	A	*	A	A	*	C	A	*	*	*	*	A	A	A	A	A

Alphabetical Listing of Materials	Concentration + Weight %	ABS	Acetal	Acrylic	CAB	CPVC	ECTFE (Halar®)	HDPE	Nylon®, Type 6/6	PEEK	PET	Polycarbonate	Polypropylene	Polysulfone	PPS	PVC, Type I	PVC, Type II	PVDF	PTFE
Fluorine		*	*	*	*	A	A	C	D	D	*	*	C	*	*	A	A	A	C
Fluosilicic Acid Aq.	10	*	*	*	A	*	A	A	D	*	*	*	A	*	A	*	*	A	*
Freon 12 (Arcton 12)		*	*	*	B	A	A	A	A	A	A	A	A	*	B	A	A	*	A
Formaldehyde Aq.	40	*	A	A	A	A	A	A	B	A	A	C	A	A	A	A	B	A	A
Formic Acid Aq.	3	*	D	D	*	A	A	*	B	B	B	A	*	*	A	A	A	A	A
Fruit Juices	COINC	A	*	*	*	A	A	A	B	A	A	C	A	*	A	A	A	A	A
Glycerine		A	*	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Heptane		*	A	*	*	*	A	*	A	A	A	C	*	A	A	A	A	A	A
Hydrobromic Acid Aq.	10	A	*	*	*	*	A	*	D	D	*	*	C	A	A	A	A	A	A
Hydrochloric Acid Aq.	0.4	*	*	A	B	A	A	A	*	A	A	A	A	A	A	A	A	A	A
Hydrofluoric Acid Aq	4	*	D	C	C	*	A	B	C	D	B	B	A	B	D	A	A	A	*
Hydrogenated Vegetable Oils		*	*	*	*	*	*	*	A	A	A	*	*	*	A	*	*	A	A
Hydrogen Peroxide Aq.	0.5	*	*	*	A	*	A	A	C	A	A	A	A	A	A	A	A	B	A
Hydrogen Peroxide Aq.	1	*	*	*	*	*	A	*	*	A	A	A	*	A	A	*	*	B	A
Hydrogen Peroxide Aq.	3	*	D	*	*	*	A	*	D	A	A	A	*	A	A	*	*	B	A
Hydrogen Sulphide Aq.	SAT	*	C	A	A	A	A	A	B	A	C	*	A	*	A	A	A	A	A
Hydroquinone		*	*	*	B	*	A	A	B	A	*	*	A	*	*	A	A	A	A
Iodine (in Alcohol)		*	*	*	*	*	A	D	D	A	*	*	B	*	*	*	*	B	A
Iodine (in Pot Iodine) Aq.	3	*	*	*	*	*	A	D	D	A	*	*	B	*	*	*	*	A	A
Isopropylalcohol		C	A	*	C	*	A	A	B	A	A	*	A	*	A	*	*	A	A
Lactic Acid Aq.	10	*	B	*	A	*	A	A	C	A	A	A	A	*	A	A	A	A	A
Lactic Acid Aq.	90	*	*	*	*	*	A	*	*	A	*	*	*	*	A	*	*	A	A
Lead Acetate Aq.	10	*	*	*	*	A	A	A	B	A	*	*	A	*	A	A	A	A	A
Linseed Oil		*	A	*	*	A	A	D	A	A	*	A	*	A	A	A	A	A	*
Lubricating Oils (Petroleum)		*	A	*	*	A	*	C	A	A	A	B	C	*	A	A	A	A	A
Magnesium Chloride Aq.	10	*	A	*	*	A	A	A	A	A	A	A	A	*	A	A	A	A	A
Maleics Acid	COINC	*	*	*	*	A	A	A	*	A	*	*	A	*	*	A	A	A	*
Malonic Acid Aq.	COINC	*	*	*	*	*	*	*	*	A	*	*	*	A	*	*	*	*	A
Mercuric Chloride Aq.	6	*	B	A	*	A	A	A	C	A	*	*	A	*	*	A	A	A	A
Methyl Acetate		*	B	*	D	*	*	*	A	A	A	*	*	*	A	*	*	A	A
Methyl Ethyl Ketone		D	B	D	D	D	A	D	A	A	A	D	D	D	A	D	D	D	A
Methyl Chloride		*	C	*	D	D	A	D	C	A	D	D	D	D	A	D	D	A	A
Milk		B	A	*	*	A	A	A	A	A	A	A	A	*	A	A	A	A	A
Mineral Oils		*	A	*	*	A	A	B	A	A	*	C	C	*	A	A	A	A	A
Naphthalene		D	*	*	*	D	A	B	A	A	A	*	B	*	A	D	D	C	A
Nickel Sulphate Aq.	10	*	*	A	*	A	A	A	A	A	*	A	A	*	A	A	A	A	A
Nitric Acid Aq.	0.1	B	D	A	D	A	A	A	C	A	*	A	A	A	*	A	A	A	A
Nitric Acid Aq.	10	*	D	*	*	A	A	*	D	A	C	*	*	A	A	A	A	B	A
Oleic Acid		*	C	*	A	*	A	A	A	A	*	C	B	A	A	A	A	A	A
Oxalic Acid Aq.	10	*	C	A	*	A	A	A	C	A	*	*	A	A	A	A	A	C	A
Ozone		*	C	*	B	A	A	D	C	A	A	D	C	A	*	A	A	B	A
Paraffin		*	A	*	*	*	A		A	A	A	*	*	*	A	A		A	A
Perchloric Acid Aq.	10	*	C	*	*	A	A	B	D	A	A	*	C	*	*	A	A	A	A
Petrol		*	A	*	*	*	A	A	A	A	A	*	*	*	A	*	*	A	A
Phenol Aq.	75	*	D	*	*	*	A	*	D	D	C	*	*	*	*	*	*	C	A
Phosphoric Acid Aq.	0.3	*	*	A	A	A	A	A	*	A	A	C	A	A	A	A	A	A	A
Phosphoric Acid Aq.	3	*	C	*	*	A	A	*	*	A	A	*	*	A	A	A	A	A	A
Phosphoric Acid Aq.	10	*	C	*	*	A	A	*	D	A	B	*	*	A	A	A	A	A	A
Phthalic Acid Aq.	SAT	*	*	*	*	*	*	*	B	A	*	*	*	*	*	*	*	B	A

Alphabetical Listing of Materials	Concentration + Weight %	ABS	Acetal	Acrylic	CAB	CPVC	ECTFE (Halar®)	HDPE	Nylon®, Type 6/6	PEEK	PET	Polycarbonate	Polypropylene	Polysulfone	PPS	PVC, Type I	PVC, Type II	PVDF	PTFE
Potassium Bicarb. Aq.	60	*	*	*	*	A	*	A	A	A	A	*	A	*	A	A	A	A	A
Potassium Chloride Aq.	90	A	*	A	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A
Potassium Ferrocyanide Aq.	30	*	*	A	*	A	A	*	A	A	*	*	*	*	*	A	A	A	A
Propane Gas		*	*	*	A	A	A	D	A	B	A	*	C	*	A	A	A	A	A
Salicylic Acid		*	*	*	*	*	A	*	A	A	A	*	*	*	*	*	*	A	A
Silicone Fluids		D	*	*	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A
Silver Nitrate		*	A	*	A	A	A	A	A	A	A	*	A	*	A	A	A	A	A
Soap Solutions		B	A	*	*	A	A	A	A	A	A	*	A	*	A	A	A	A	A
Sodium Acetate Aq.	60	*	*	A	A	A	A	A	B	A	A	*	A	*	A	A	A	A	A
Sodium Bicarbonate Aq.	50	*	A	A	A	A	A	A	A	A	A	A	B	*	A	A	A	A	A
Sodium Hypochlorite 15% (Chlorine Bleach)		*	C	A	*	*	A	A	D	A	A	A	A	A	B	A	A	A	A
Sodium Nitrate Aq.	50	*	A	A	*	A	A	A	A	A	A	*	A	*	A	A	A	A	A
Stannic Chloride Aq.	10	*	*	*	*	*	*	A	C	A	*	*	A	*	A	*	*	A	A
Stearic Acid		*	*	*	*	A	A	A	A	A	*	*	A	*	*	A	A	A	A
Styrene (Monomer)		*	*	*	D	*	A	*	A	A	C	*	*	*	A	*	*	A	A
Sulphur Dioxide (Dry Gas)	100	D	B	A	C	A	A	A	B	A	B	*	A	*	A	A	A	B	A
Sulphuric Acid Aq.	2	B	D	D	*	A	A	A	C	A	A	A	A	A	A	A	A	B	A
Sulphuric Acid Aq.	5	*	D	*	*	*	A	*	D	A	A	*	*	A	A	A	A	B	A
Sulphurous Acid Aq.	10	*	C	A	*	A	A	A	D	A	C	*	A	*	*	A	A	*	A
Tallow		*	*	*	*	*	*	A	A	A	*	*	*	*	A	*	*	A	A
Tar		*	*	*	*	*	A	*	B	A	*	*	*	*	A	*	*	A	A
Toluene		D	A	*	D	D	*	D	A	A	A	D	D	D	A	D	D	B	A
Transformer Oil		*	*	D	*	*	A	*	A	A	*	*	*	*	A	*	*	A	A
Trichlorethylene		*	B	*	D	D	A	D	B	A	B	*	D	D	A	D	D	A	A
Triethanolamine		*	*	*	*	*	A	A	A	A	B	*	A	*	A	A	A	A	A
Turpentine		D	A	*	*	A	A	D	A	A	*	D	D	B	A	A	C	A	A
Trisodium Phosphate Aq.	95	*	*	A	*	A	A	A	*	A	A	*	A	*	A	A	A	*	A
Urea		*	A	*	*	A	A	A	A	A	A	*	A	*	A	A	A	A	A
Vaseline		B	A	*	*	A	A	A	A	A	A	A	*	*	A	A	A	A	A
Vegetable Oils		C	A	*	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A
Vinegar		A	B	*	*	A	A	A	C	A	A	*	A	*	A	A	A	A	A
Vinyl Chloride		*	*	*	*	*	*	*	A	A	*	*	*	*	A	*	*	A	A
Water		A	A	*	*	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Wax (Molten)		C	A	*	*	*	A	*	A	A	A	*	*	*	A	*	*	*	A
White Spirit		*	A	*	*	A	A	*	A	A	*	*	*	*	A	*	*	A	A
Wines and Spirits		B	*	*	*	A	A	*	B	A	A	A	*	*	A	A	A	A	A
Xylene		D	*	D	D	D	A	D	D	A	A	*	D	D	A	D	D	A	A
Xylenol		*	*	*	*	A	*	*	D	A	*	*	*	*	*	*	*	*	A
Zinc Chloride Aq.	10	*	*	A	A	A	*	A	C	A	*	C	A	A	A	A	A	A	A

Legend:
A = No Attack, possibly slight absorption. Negligible effect on mechanical properties.
B = Slight attack by absorption. Some swelling and a small reduction in mechanical likely.
C =Moderate attack of appreciable absorption. Material will have limited life.
D = Material will decompose or dissolve in a short.

Aq. = Aqueous Solution
CONC = Concentrated Aqueous Solution
SAT = Saturated Aqueous Solution
* = No data available

Where Aqueous Solutions are Shown the concentration as a weight % is given.

KEMFLO CANADA INC. SALES POLICY

CONDITIONS

All orders accepted are subject to these conditions unless otherwise agreed to in writing. In all cases of conflict between these conditions and the requirements of the purchase order, these conditions shall prevail.

PRICE LISTS

Prices are subject to change without notice. Products listed hereon will be invoiced at the price prevailing at the time of shipment. Since all orders are individually entered for processing immediately upon receipt, Kemflo Canada Inc. reserves the right to consider all add-ons as separate and new orders subject to all terms and conditions of sales outlined. Kemflo Canada reserves the right to charge back to the customer all costs incurred for partial or complete cancellation of orders already entered.

TAXES

Any and all sales, manufacturer's taxes and/or other charges levied or imposed by any governmental authority, foreign, or domestic, upon any merchandise sold or contracted to be sold, shall be paid by the Customer and added to the purchase price unless satisfactory and appropriate tax exemption certificates are supplied to the Seller.

DELIVERY

Customers are advised that quoted delivery dates or schedules are based on estimates at time of quotation. It must be noted that the Seller assumes no liability for additional costs or damages resulting from late deliveries. All goods shall be deemed shipped or delivered to the Customer when placed in the hands of a carrier for delivery to the Customer and all responsibility for loss, damage, or destruction of the said goods is thereupon assumed by the Customer.

RETURNED MATERIALS

Seller reserves the right to refuse acceptance of any materials returned without the express written authority in the form of an RMA (Returned Materials Authorization). In no case will written authority be given for return of those products supplied with any accessories not regularly stocked. The Seller's Quality Control Department will, in its sole discretion, determine the acceptability of returned materials on a stockable and resalable basis. Credit will be issued on resalable material only. PLEASE NOTE THAT JOB-SITE SHIPMENTS ARE NOT RETURNABLE FOR CREDIT.

DAMAGE, LOSS OR SHORTAGE CLAIMS

This subject is covered by the Kemflo Canada Inc. Shipping Claims and Damages Form. Please refer to this form. Seller reserves the right to alter, modify, or re-design its products without any obligation to replace products shipped with such modified or re-designed products.

PRODUCT CHANGES

Seller reserves the right to alter, modify, or re-design its products without any obligation to replace products shipped with such modified or re-designed products.

LIMITED WARRANTY

The Seller's products are guaranteed against defects resulting from faulty workmanship or materials. The Seller will replace or allow credit, at the Seller's option, for products found to be defective, provided the purchaser gives the seller immediate written notice of defects, and provided that inspection by the Seller establishes the validity of the claim. Defective Products will be replaced by the Seller free of charge, including shipping charges for the replacement product. Claims for labor costs and any other expenses required to replace such defective products or to repair any damage resulting from the use thereof will not be allowed by the Seller.

KemFlo Canada Inc.

APPLICATION FOR CREDIT

NAME: _____ DATE: _____

ADDRESS: _____ A/P CONTACT: _____

_____ A/P TELEPHONE # _____

_____ A/P FAX # _____

SALES TAX #'s GST # _____ PST # _____

TYPE OF FIRM PROPRIETORSHIP ___ PARTNERSHIP ___ CORPORATION ___ COMMENCEMENT OF BUS. ___

COMPANY OFFICERS: TITLE NAME

_____ _____

TRADE REFERENCES: (SUPPLIERS WITH WHOM YOU ARE CURRENTLY DOING BUSINESS)

1 NAME: _____ PHONE: _____

ADDRESS: _____

_____ FAX: _____

2 NAME: _____ PHONE: _____

ADDRESS _____

_____ FAX: _____

3 NAME: _____ PHONE: _____

ADDRESS: _____

_____ FAX: _____

BANK REFERENCE: NAME: _____

ADDRESS: _____

PHONE# _____ FAX: _____

OUR TERMS OF PAYMENT ARE NET 30 DAYS. BY SIGNING BELOW YOU AGREE TO ABIDE BY THESE TERMS. A SERVICE CHARGE OF 2% PER MONTH (24% ANNUM) MAY BE ASSESSED ON PAST DUE AMOUNTS.

SIGNATURE: _____ TITLE:: _____

FOR OFFICE USE ONLY: DATE: _____ APPROVED BY: _____

CREDIT LIMIT _____ CUSTOMER # _____

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