CAT 1

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BSPT & SPECIALTY

BSPT

TYPE **A**
TYPE **B**
TYPE **D**
TYPE **F**

SPECIALTY

TYPE **AW**
TYPE **DW**
TYPE **FA**
TYPE **FC**
TYPE **DCL**
TYPE **SA, SA-**
TYPE **DD, DD-**
TYPE **DA, DA-**
TYPE **AR**
TYPE **BR**
TYPE **BLN**
TYPE **CR**
TYPE **DR**
TYPE **ER**
TYPE **HA**
THREAD REDUCERS
INCREASER
PIPE CAP



SEALFAST
THE SIMPLE SOLUTION





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TERMS OF SALE

TERMS:

1/2% 10 Days, net 30 Days

FREIGHT:

All shipments are made FOB Seal Fast Inc. or Point of Manufacturer. (Applies to shipments from Houston Warehouse Only) Freight prepaid on $1500 Net Couplings and accessories, $2500 PVC Tubing, Braided Tubing, Fire & Mill hose. Freight prepaid on $4000 Net Couplings, Rubber Hose, PVC Hose and Sheet Rubber with the exclusion of all PVC Suction including 6" and 8" PVC Suction ONLY orders. If combined with other items freight is prepaid at $3000 Net, otherwise these items will Not be applied toward prepaid freight. **Effective immediately, regardless of invoice value, all uncoupled cut lengths of hoses are shipped FOB Seal Fast Inc.** Seal Fast Inc. reserves the right to determine the most Economical shipping method on all prepaid shipments. **In addition, Seal Fast Inc. reserves the right to refuse any prepaid shipments exceeding 6% freight cost of the order unless items are added or subtracted to keep said freight cost at or below 6%.** Applies to Continental United States, excluding Alaska and Hawaii. **Any evidence of shortage must be reported to Seal Fast Inc. within 10 days. Any Damage to hose/hoses, etc. customer is responsible for filing a claim with the delivery carrier within 10 days. Seal Fast Inc. will not issue credit.**

ALL UPS prepay and add or collect shipments will endure a **$7.50** shipping and handling fee including All backorders. All drop shipments will endure a $5.00 fee.

WARRANTY:

Products are warranted against defects in workmanship and defects in material. Products having such defects will be replaced or credited as Seal Fast elects. Liability is limited to the invoice value of the defective item. Our responsibility shall not exceed the original purchase price of the defective product. In any event, Seal Fast, Inc. shall not be held responsible for any special or consequential damages.

RETURNED GOODS:

If for any reason you wish to return goods, please contact Seal Fast Inc. for prior authorization number. Goods must be returned within 30 days and must be in new and resaleable condition. Minimum handling charge is 15%.

All discrepancies in shipment / invoice must be reported within 10 days of receipt of goods.

PROMPT PAYMENT:

Orders receive preferred treatment when the account is paid promptly. Orders may be held up if any unpaid invoice exceeds 30 days.

MINIMUM INVOICE:

All invoices are subject to a minimum billing charge of 50.00 net. Returned checks are subject to a $25.00 service charge.

GENERAL:

Orders will be accepted subject to delays caused by accident, strike, fire or other causes beyond the control of the seller including failure of seller's suppliers to deliver. Prices, discounts and other specifications are subject to change without notice. All prices are subject to any applicable taxes imposed. The possessions of this price schedule is not to be construed as an offer to sell at the prices shown. Special price for volume quotes will be accepted in writing only.

PLEASE NOTE:

Extra care is taken in the preparation of this literature but Seal Fast, Inc. is not responsible for any inadvertent typographical errors or omissions.

SEAL FAST, INC.

8609 City Park Loop,
Houston, TX 77013

(713) 675-6324 or 800-231-0734 | FAX (713) 675-0146 or 800-681-1515 | E-mail sales@sealfast.com

DISCLAIMERS

Product Images

- Seal Fast makes every reasonable effort to show accurate product representation, however pictures are for reference only, and do not necessarily reflect the exact product you will receive.
- Seal Fast reserves the right to alter product appearance without notice. Some product features shown in pictures may no longer be available.

Product Specifications

- Seal Fast is continuously working to provide the best quality for the best price.
- We reserve the right to alter product specifications without notice.

Product Usage

- Our Sales Team will do their best to assist in choosing the best product for a particular application. However, it is ultimately the customer's responsibility to determine the correct product for the correct application.
- Seal Fast will not be held liable for the abuse or misuse of our products in a manner in which they are not designed.
- Seal Fast cannot guarantee the integrity of an assembly if other manufacturers parts are used.

Product Availability

- Seal Fast reserves the right to discontinue products at any time without prior notice.

Product Pricing

- Seal Fast is constantly doing our best to maintain pricing levels. However, circumstances change and while many prices go down, others will increase.
- Please contact your sales associate for current pricing.

Custom Made Products

- All custom made product sales are final and Non-Refundable.



TYPE A

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
1-1/2”	150	A 150IALBSP		A 150SSBSP	
2”	150	A 200IALBSP		A 200SSBSP	
3”	150	A 300IALBSP		A 300SSBSP	
4”	150	A 400IALBSP		A 400SSBSP	
6”	75	A 600IALBSP		---	



TYPE B

ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
B 150IALBSP		B 150SSBSP	
B 200IALBSP		B 200SSBSP	
B 300IALBSP		B 300SSBSP	
B 400IALBSP		B 400SSBSP	
B 600IALBSP		---	



TYPE AW

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM Bore	ALUMINUM List	316 SS Part #	316 SS Bore	316 SS List
2”	150	AW 200AL	2.40”		AW 200SSI	2.40”	
3”	150	AW 300AL	3.535”		AW 300SSI	3.535”	
4”	150	AW 400AL	4.530”		AW 400SSI	4.530”	

The Bore Size is for Schedule 40 Pipe Only

TYPE DW

ALUMINUM Part #	ALUMINUM Bore	ALUMINUM List	316 SS Part #	316 SS Bore	316 SS List
DW 200AL	2.390”		DW 200SSI	2.390”	
DW 300AL	3.530”		DW 300SSI	3.530”	
DW 400AL	4.530”		DW 400SSI	4.530”	

The Bore Size is for Schedule 40 Pipe Only

FEMALE COUPLER X FEMALE BSPT



TYPE D

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
1-1/2”	150	D 150IALBSP		D 150SSBSP	
2”	150	D 200IALBSP		D 200SSBSP	
3”	150	D 300IALBSP		D 300SSBSP	
4”	150	D 400IALBSP		D 400SSBSP	
6”	75	D 600IALBSP		---	

MALE ADAPTER X MALE BSPT



TYPE F

ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
F 150IALBSP		F 150SSBSP	
F 200IALBSP		F 200SSBSP	
F 300IALBSP		F 300SSBSP	
F 400IALBSP		F 400SSBSP	
F 600IALBSP		---	

** Available as:1-1/4 adapter or coupler X 1-1/4 NPT | Please specify: 1-1/2 adapter or coupler X 1-1/4 NPT | 1-1/2 adapter or coupler X 1-1/2 NPT
Note: All Seal Fast Cam & Groove Stainless Bodies are 316 Investment with 304 Handles. * **Dust Caps** and **Dust Plugs** are **not** designed for pressure applications.

WARNING: Cam & Groove Couplings should **NOT** be used with any compressed gas, including steam or air. Metal fittings should not be used with Polypropylene Cam & Groove.

FLANGED ADAPTER - 150



TYPE FA

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
1”	150	---	---	FA 100SS	
1 -1/2"	150	---	---	FA 150SS	
2”	150	FA 200AL		FA 200SS	
3”	150	FA 300AL		FA 300SS	
4”	150	FA 400AL		FA 400SS	
6”	75	FA 600AL		FA 600SS	
8”	75	*FA 800ALPTK		*PTK is “Small Body”	

FLANGED COUPLER - 150



TYPE FC

ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
---	---	FC 100SS	
---	---	FC 150SS	
FC 200AL		FC 200SS	
FC 300AL		FC 300SS	
FC 400AL		FC 400SS	
FC 600AL		FC 600SS	
*FC 800ALPTK		*PTK is “Small Body”	

LOCKABLE DUST CAP – NOT DESIGNED FOR PRESSURE APPLICATIONS – REPLACEMENT HANDLE



TYPE DCL

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	BRASS Part #	BRASS List	316 SS Part #	316 SS List
1-1/2”	0	DCL 150IAL		---		DCL 150SS	
2”	0	DCL 200IAL		DCL 200IBR		DCL 200SS	
3”	0	DCL 300IAL		DCL 300IBR		DCL 300SS	
4”	0	DCL 400IAL		DCL 400IBR		DCL 400SS	
6”	0	DCL 600IAL		---		---	

316 SS Part #	316 SS List

LH 200SS	
LH 300SS	
LH 400SS	
LH 600SS	

** Available as:1-1/4 adapter or coupler X 1-1/4 NPT | Please specify: 1-1/2 adapter or coupler X 1-1/4 NPT | 1-1/2 adapter or coupler X 1-1/2 NPT
Note: All Seal Fast Cam & Groove Stainless Bodies are 316 Investment with 304 Handles. * **Dust Caps** and **Dust Plugs** are **not** designed for pressure applications.

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SPOOL ADAPTERS - MALE ADAPTER X MALE ADAPTER w/PIPE TAP



TYPE SA

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	BRASS Part #	BRASS List	316 SS Part #	316 SS List
3/4”	150	---		---		SA 075SS	
1”	150	SA 100AL		SA 100BR		SA 100SS	
1-1/4”	150	SA 125AL		SA 125BR		SA 125SS	
1-1/2”	150	SA 150AL		SA 150BR		SA 150SS	
1-1/2” X 2”	150	SA 1520AL		---		SA 1520SS	
2”	150	SA 200AL		SA 200BR		SA 200SS	
2” X 2-1/2”	150	SA 2025AL		---		SA 2025SS	
2” x 3”	150	SA 2030AL		---		SA 2030SS	
2” x 4”	150	SA 2040AL		---		---	
2-1/2”	150	SA 250AL		SA 250BR		SA 250SS	
3”	150	SA 300AL		SA 300BR		SA 300SS	
3” X 4”	150	SA 3040AL		---		SA 3040SS	
4”	150	SA 400AL		SA 400BR		SA 400SS	
4” X 1-1/2”	150	SA 4015AL		---		---	
4” X 2”	150	SA 4020AL		---		---	
4” X 5”	150	SA 4050AL					
4” X 6”	150	SA 4060AL		---		SA 4060SS	
5”	75	SA 500AL		---		---	
6”	75	SA 600AL		---		SA 600SS	



TYPE SA

Size	WORKING PSI	316 SS Part #	316 SS List
2” X 2” X 1/2” NPT	150	SA 200-1SS	
2” X 2” X 3/4” NPT	150	SA 200-2SS	
3” X 3” X 1/2” NPT	150	SA 300-1SS	
3” X 3” X 3/4” NPT	150	SA 300-2SS	
3” X 3” X 1” NPT	150	SA 300-3SS	

SPOOL COUPLERS - FEMALE COUPLER X FEMALE COUPLER W /PIPE TAP



TYPE DD

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	BRASS Part #	BRASS List	316 SS Part #	316 SS List
1-1/2”	150	DD 150AL		---		DD 150SS	
2”	150	DD 200AL		---		DD 200SS	
2” X 3”	150	DD 2030AL				---	
2-1/2”	150	---		---		DD 250SS	
3”	150	DD 300AL		---		DD 300SS	
3” X 2”	150	DD 3020AL		---		DD 3020SS	
3” X 2-1/2”	150	DD 3025AL				---	
3” X 4”	150	DD 3040AL		---		DD 3040SS	
4”	75	DD 400AL		DD 400BR		DD 400SS	
4-1/2”	75	DD 4015AL		---		---	
5” X 4”	75	--		---		DD 5040SS	
6”	75	DD 600AL		---		---	



TYPE DD-

Size	WORKING PSI	316 SS Part #	316 SS List
2” X 2” X 1/2” NPT	150	DD 200-1SS	
2” X 2” X 3/4” NPT	150	DD 200-2SS	
3” X 3” X 1/2” NPT	150	DD 300-1SS	
3” X 3” X 3/4” NPT	150	DD 300-2SS	

** Available as:1-1/4 adapter or coupler X 1-1/4 NPT | Please specify: 1-1/2 adapter or coupler X 1-1/4 NPT | 1-1/2 adapter or coupler X 1-1/2 NPT
Note: All Seal Fast Cam & Groove Stainless Bodies are 316 Investment with 304 Handles. * **Dust Caps** and **Dust Plugs** are **not** designed for pressure applications.

WARNING: Cam & Groove Couplings should **NOT** be used with any compressed gas, including steam or air. Metal fittings should not be used with Polypropylene Cam & Groove.

REDUCING DA - FEMALE COUPLER X MALE ADAPTER w/PIPE TAP



TYPE DA

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	BRASS Part #	BRASS List	316 SS Part #	316 SS List
1-1/2” x 1”	150	DA 1510AL		---		DA 1510SS	
1-1/2” X 2”	150	DA 1520AL		---		DA 1520SS	
2” X 1”	150	---		---		DA 2010SS	
2” X 1-1/2”	150	DA 2015AL		---		DA 2015SS	
2” X 2”	150	---		---		DA 2020SS	
2” X 3”	150	DA 2030AL		DA 2030BR		DA 2030SS	
2” X 4”	150	DA 2040AL		---		DA 2040SS	
2-1/2” x 2”	150	---		---		DA 2520SS	
3” X 1-1/2”	150	DA 3015AL		---		DA 3015SS	
3” X 2”	150	DA 3020AL		DA 3020BR		DA 3020SS	
3” X 2-1/2”	150	DA 3025AL		---		---	
3” X 3”	150	---		---		DA 3030SS	
3” X 4”	150	DA 3040AL		DA 3040BR		DA 3040SS	
3” X 6”	150	DA 3060AL		---		---	
4” X 1-1/2”	150	DA 4015AL		---		---	
4” X 2”	150	DA 4020AL		DA 4020BR		DA 4020SS	
4” X 2.5”	150	---		---		DA 4025SS	
4” X 3”	150	DA 4030AL		DA 4030BR		DA 4030SS	
4” X 5”	150	DA 4050AL		---		---	
4” X 6”	150	DA 4060AL		---		DA 4060SS	
5” X 4”	150	DA 5040AL		---		---	
6” X 3”	75	DA 6030AL		---		---	
6” X 4”	75	DA 6040AL		DA 6040BR		DA 6040SS	
6” X 5”	75	DA 6050AL		---		---	
8” X 6”	75	*DA 8060ALPTK		*PTK is *“Small Body”*		--	

TYPE DA-

Size	WORKING PSI	316 SS Part #	316 SS List
2” X 2” X 1/2” NPT	150	DA 2020-1SS	
2” X 2” X 1/2” NPT	150	DA 2020-2SS	
3” X 2” X 1/2” NPT	150	DA 3020-1SS	
3” X 2” X 3/4” NPT	150	DA 3020-2SS	
3” X 2” X 1” NPT	150	DA 3020-3SS	
3” X 3” X 1/2” NPT	150	DA 3030-1SS	
3” X 4” X 1/2” NPT	150	DA 3040-1SS	
3” X 4” X 3/4” NPT	150	DA 3040-2SS	
4” X 3” X 1/2” NPT	150	DA 4030-1SS	
4” X 3” X 3/4” NPT	150	DA 4030-2SS	

REDUCING A - M X F NPT | REDUCING BR - F X M NPT | LONGNECK BLN - F X M NPT



TYPE AR

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List
1-1/2” x 2”	150	AR 1520AL	
2” X 1-1/2”	150	AR 2015AL	
2” x 3”	150	AR 2030AL	
3” X 2”	150	AR 3020AL	
3” X 4”	150	AR 3040AL	
4” X 3”	150	AR 4030AL	
4” X 6”	150	AR 4060AL	
6” X 4”	75	AR 6040AL	



TYPE BR

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List
1-1/2” X 1”	150	BR 1510AL	
2” x 1-1/2”	150	BR 2015AL	
2” X 3”	150	BR 2030AL	
3” X 2”	150	BR 3020AL	
3” X 4”	150	BR 3040AL	
4” X 3”	150	BR 4030AL	
6” X 4”	75	BR 6040AL	



TYPE BLN

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
1-1/2” X 1-1/2”	150	BLN 150AL		BLN 150SS	
2” X 2”	150	BLN 200AL		BLN 200SS	
3” X 3”	150	BLN 300AL		BLN 300SS	
4” X 4”	150	BLN 400AL		BLN 400SS	
6” X 6”	75	BLN 600AL			
8” X 8”	75	*BLN 800ALNAE		*NAE is “Large Body”	
8” X 8”	75	**BLN 800ALPTK		**PTK is “Small Body”	

Brass

COMING SOON

** Available as:1-1/4 adapter or coupler X 1-1/4 NPT | Please specify: 1-1/2 adapter or coupler X 1-1/4 NPT | 1-1/2 adapter or coupler X 1-1/2 NPT
Note: All Seal Fast Cam & Groove Stainless Bodies are 316 Investment with 304 Handles. * **Dust Caps** and **Dust Plugs** are **not** designed for pressure applications.

WARNING: Cam & Groove Couplings should **NOT** be used with any compressed gas, including steam or air. Metal fittings should not be used with Polypropylene Cam & Groove.

SPECIALTY

REDUCING C - FEMALE COUPLER X SHANK



TYPE **CR**

Size	WORKING PSI	ALUMINUM * Part #	ALUMINUM List	316 SS * Part #	316 SS List
1-1/2" X 1"	150	CR 1510AL		CR 1510SS	
2" X 1"	150	CR 2010AL		---	
2" X 1-1/4"	150	CR 2012AL		---	
2" X 1-1/2"	150	CR 2015AL		CR 2015SS	
2-1/2" x 1-1/2"	150	CR 2515AL		---	
2-1/2" x 2"	150	CR 2520AL		---	
3" x 2"	150	CR 3020AL		CR 3020SS	
3" x 2-1/2"	150	CR 3025AL		CR 3025SS	
3" x 4"	150	CR 3040AL		---	
4" x 3"	150	CR 4030AL		CR 4030SS	

REDUCING D - FEMALE COUPLER X FEMALE NPT



TYPE **DR**

Part #	ALUMINUM List
DR 1510AL	

DR 2015AL	

DR 3020AL	

DR 3040AL	
DR 4030AL	

REDUCING E - MALE ADAPTER X SHANK



TYPE **ER**

Size	WORKING PSI	ALUMINUM * Part #	ALUMINUM List	316 SS * Part #	316 SS List
1-1/2" x 1"	150	ER 1510AL		ER 1510SS	
*1-1/2" x 1-1/2"	100	---		---	
1-1/2" x 2"	---	---		---	
1-1/2" x 3"	150	ER 1530AL		---	
2" x 1"	150	ER 2010AL		---	
2" x 1-1/2"	150	ER 2015AL		ER 2015SS	
2" x 2-1/2"	150	ER 2025AL		---	
*2-1/2" x 2-1/2"	100	---		---	
2" x 3"	150	ER 2030AL		---	
3" x 2"	150	ER 3020AL		ER 3020SS	
3" x 1-1/2"	---	---		---	
3" x 2-1/2"	150	---		ER 3025SS	
3" x 2-1/2"	150	ER 3025AL		---	
3" x 4"	150	ER 3040AL		---	
4" x 2"	150	ER 4020AL		---	
4" x 3"	150	ER 4030AL		ER 4030SS	
4" x 6"	---	---		---	

HYDRANT ADAPTER

w/NST Fire Threads



TYPE **HA**

WORKING PSI	ALUMINUM Part #	ALUMINUM List
150	---	
100	HA150AL	

150	---	
150	---	
150	---	
150		
100	HA250AL	

*WARNING: Working Pressures may vary depending on how the couplings are attached to the hose assembly. Before operation, always check the hose assembly for proper attachment and that couplings are in working order.

** Available as:1-1/4 adapter or coupler X 1-1/4 NPT | Please specify: 1-1/2 adapter or coupler X 1-1/4 NPT | 1-1/2 adapter or coupler X 1-1/2 NPT
Note: All Seal Fast Cam & Groove Stainless Bodies are 316 Investment with 304 Handles. * **Dust Caps** and **Dust Plugs** are **not** designed for pressure applications.

WARNING: Cam & Groove Couplings should **NOT** be used with any compressed gas, including steam or air. Metal fittings should not be used with Polypropylene Cam & Groove.

THREAD REDUCER

FEMALE NPSM X MALE NPT

THREAD REDUCER - FEMALE BSPS X MALE NPT

FEMALE BSPS X MALE NPT



Size	WORKING PSI	316 SS Part #	316 SS List	304 SS Part #	304 SS List
3" Female NPSM X 2" Male NPT	150	3020N		3020BN 304SS	
PTFE 3" Gasket	---	300TG		300TG	

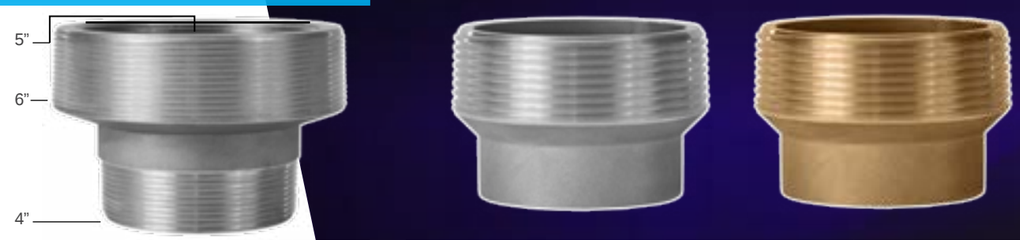
Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	316 SS Part #	316 SS List
*3" Female BSPS X 2" Male NPT	150	3020ALBN		3020BN	
*3" Female BSPS X 3" Male NPT	150	3030ALBN		3030BN	
PTFE 3" Gasket	---	300TG		300TG	

*Threads: BSP Straight

THREAD INCREASER

MALE NPT X FEMALE NPT X MALE NPT

THREAD REDUCER - MALE NPT X FEMALE NPT



Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List
6" NPT-M X 5" NPT-F X 4"NPT-M	100	6540AL	

Size	WORKING PSI	ALUMINUM Part #	ALUMINUM List	BRASS Part #	BRASS List
3" NPT-M X 2" NPT-F	150	3020AL		3020BR	
4" NPT-M X 3" NPT-F	150	4030AL		4030BR	
6 -1/2" NPT-M X 4" NPT-F	100	6540AL		---	

PIPE CAP



Size	WORKING PSI	316 SS Part #	316 SS List
3" Female NPSM Pipe Cap	0	PC 300SS	
3" SS Cap w/BSP Straight Thread	0	PC 300SSBSP	
PTFE 3" Gasket	0	300TG	
Pipe Cap Hook (10 pcs per bag)	0	HC 300SS	

** Available as:1-1/4 adapter or coupler X 1-1/4 NPT | Please specify: 1-1/2 adapter or coupler X 1-1/4 NPT | 1-1/2 adapter or coupler X 1-1/2 NPT
Note: All Seal Fast Cam & Groove Stainless Bodies are 316 Investment with 304 Handles. * **Dust Caps** and **Dust Plugs** are **not** designed for pressure applications.

WARNING: Cam & Groove Couplings should **NOT** be used with any compressed gas, including steam or air. Metal fittings should not be used with Polypropylene Cam & Groove.

CORROSION RESISTANCE OF COUPLING MATERIALS

CAUTION: The following data has been compiled from generally available sources end should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

RATINGS: 1. Excellent 2. Good 3. Fair Conditional x. Not Satisfactory **NOTES:** No rationg indicates no data available

AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Acetate, Solvents, Crude		3				2	1	1	2
Acetate, Solvents, Pure		1	1	1		1	1	1	1
Acetic Acid	X	X	X	2	1	X	2	2	2
Acetic Acid Vapor	X	X		3		X	2	2	3
Acetic Anhydride	X	X		2		X	2	2	2
Acetone	1	1	1	1	1	1	1	1	1
Acetylene	1	2		1		1	1	1	2
Alcohols	1	2		1		1	1	1	1
Aluminum Sulfate	X	3	3	3	1	X	3	2	2
Alums	X	3	2	3	1	X	3	2	2
Ammonia Gas	1	X	3	1	3	1	1	1	X
Ammonium Chloride	1	3		1*		3	3	1	1
Ammonium Hydroxide	2	X		2		1	1	1	3
Ammonium Nitrate	1	X		2		1	1	1	3
Ammonium Phosphate (Ammoniacal)		X				1	1	1	2
Ammonium Phosphate (Neutral)		3				1	1	1	2
Ammonium Phosphate (Acid)		3				3	2	1	2
Ammonium Sulfate	1	3				2	1	1	2
Asphalt	1	2				2	1	1	1
Beer	2	2	1	1		X	1	1	1
Beet SugarLiquors	1	2		1		2	1	1	1
Benzene, Benzol	1	1	1	1	1	1	1	1	1
Benzine (petroleum-naphtha)	1	1		1		1	1	1	1
Borax	2	2				1	1	1	1
Boric Acid	X	3		1		3	2	1	1
Butane, Butylene	1	1	1	1		1	1	1	1
Butadiene		1				1	1	1	1
Calcium Bisulfate		X				X	2	1	X
Calcium Hypochlorite	3	3	3	X	3	X	3	2	3
Cane Sugar Liquors	1	2		1		2	1	1	1
Carbon Dioxide (Dry)	1	1		1		1	1	1	1
Carbon Dioxide (Wet & Aqueous Sol)	2	3		2		2	1	1	2
Carbon Disulfide	2	3		2		2	1	1	3
Carbon Tetrachloride	3	1	2	3	1	1	1	1	1
Chlorine (Dry)	2	2	2	1	2	2	2	2	1
Chlorine (Wet)	X	X	3	X	2	X	X	3	3
Chromic Acid		X	X	X	1	3	2	2	3
Citric Acid	X	3		1		3	X	1	2
Coke Oven Gas	1	3		2		1	1	1	2
Copper Sulfate	X	X		X		1	1	1	3
Core Oils		1	1			1	1	1	1
Cottonseed Oil	1	1	1	1		1	1	1	1
Creosote	2	3		1		1	1	1	1
Ethers	2	1		1		1	1	1	1
Ethylene Glycol	2	2				1	1	1	1
Ferric Chloride	X	X	X	X	1	X	X	X	X
Ferric Sulfate	X	X		X		1	1	1	3
Formaldehyde	2	2		2		1	1	1	1

*3 to X at high temperatures. Chemical Chart is reprinted from 1996 RMA Hose Handbook

TECHNICAL DATA

CORROSION RESISTANCE OF COUPLING MATERIALS

CAUTION: The following data has been compiled from generally available sources end should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

RATINGS: 1. Excellent 2. Good 3. Fair Conditional x. Not Satisfactory **NOTES:** No rationg indicates no data available

AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Formic Acid	X	2		X		X	2	1	2
Freon	3	1	1	1		1	1	1	1
Furfural	1	2		1		1	1	1	1
Gasoline (Sour)	3	3		3		3	1	1	X
Gasoline (Refined)	1	1	1	1		1	1	1	1
Gelatin	1	3		1		1	1	1	1
Glucose	1	1		1		1	1	1	1
Glue	1	3		1		1	1	1	1
Glycerine or Glycerol	1	2		1		1	1	1	1
Hydrochloric Acid	X	X	X	X	1	X	X	X	X
Hydrocyanic Acid	3	X		1		3	1	1	2
Hydrofluoric Acid	X	3	3	X	X	X	X	X	X
Hydrogen Fluoride		3				X	X	3	1
Hydrogen	1	1		1		1	1	1	1
Hyrogen Peroxide	X	X		1		1	2	1	2
Hydrogen Sulfide (Dry)	3	3		2		3	2	1	3
Hydrogen Sulfide (Wet)	3	3		2		3	2	1	3
Lacquers and Lacquer Solvents	3	2		1		1	1	1	1
Lactic Acid	X			3			3	2	1
Lime-Sulfur	2	X		2		1	1	2	
Linseed Oil	1	1		1			1	1	1
Magnesium Chloride	3	3		X		3	2	1	1
Magnesium Hydroxide	1	2		X		1	1	1	1
Magnesium Sulfate	2	2		3		1	1	1	1
Mercuric Chloride	3	X		X		X	X	3	X
Mercury	1	X		X		1	1	1	2
Milk	3	3		1		2	1	1	3
Molasses	2	X		2		2	1	1	1
Natural Gas	1	2		1		1	1	1	1
Nickel Chloride		X		X		X	3	2	2
Nickel Sulfate		3		X		3	2	1	1
Nitric Acid	X	X	X	3	1	2	2	2	X
Oleic Acid	2	3		1		2	2	1	1
Oxalic Acid	3	3		2		3	2	1	1
Oxygen	1	1	1	1		1	1	1	1
Palmitic Acid	1	3		1		2	2	1	1
Petroleum Oils (Sour)		3				3	1	1	X
Petroleum Oils (Refined)	1	1	1	1		1	1	1	1
Phosphoric Acid 25%	3	X		3	3	X	3	1	2
Phosphoric Acid 25-50%	X	X		X	3	X	X	2	2
Phosphoric Acid 50-85%	X	X		X	X	X	X	2	2
Picric Acid	3	X		3		2	1	1	X
Potassium Chloride	2	3		3		3	2	1	1
Potassium Hydroxide	3	X		X		1	1	1	1
Potassium Sulfate	2	2		1		1	1	1	1
Propane	1	1				1	1	1	1
Rosin (Dark)	1	2			1	1	1	1	1
Rosin (Light)		X		1		1	1	1	2

*3 to X at high temperatures. Chemical Chart is reprinted from 1996 RMA Hose Handbook

CORROSION RESISTANCE OF COUPLING MATERIALS

CAUTION: The following data has been compiled from generally available sources end should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

RATINGS: 1. Excellent 2. Good 3. Fair Conditional x. Not Satisfactory **NOTES:** No rationg indicates no data available

AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Shellac		2		2		1	1	1	1
Sludge Acid		X				X	X	3	2
Soda Ash (Sodium Carbonate)	1	2		X		1	1	1	1
Sodium Bicarbonate	3	1		X		1	1	1	1
Sodium Bisulfate	X	3		3		X	1	1	1
Sodium Chloride	2	3	2	X	1	3	2	1	1
Sodium Cyanide	2	X		X		1	1	1	2
Sodium Hydroxide	3	X	3	X	X	2	2	2	1
Sodium Hypochlorite	X	X		X		X	3	2	3
Sodium Metaphosphate	X	3		1		2	1	1	1
Sodium Nitrate	1	3		1		1	1	1	1
Sodium Perborate	3	3		1		1	1	1	1
Sodium Peroxide	3	3		1		1	1	1	1
Sodium Phosphate (Alkaline)		3				1	1	1	1
Sodium Phosphate (Neutral)		2				1	1	1	1
Sodium Phosphate (Acid)		2				X	2	1	1
Sodium Silicate	1	3		X		1	1	1	1
Sodium Sulfate	1	2		3		1	1	1	1
Sodium Sulfide	1	X				1	1	1	2
Sodium Thiosulfate (Hypo)	3	X		X		1	1	1	2
Stearic Acid	3	3		3		2	2	1	1
Sulfate Liquors		X				1	1	1	2
Sulfur	2	X		2		2	2	1	3
Sulfur Chloride	X	X				X	3	2	2
Sulfur Dioxide (Dry)	2	1		1		1	1	1	1
Sulfur Dioxide (Wet)		X				X	2	1	X
Sulfuric Acid 10%	X	X	3	3		X	X	2	2
Sulfuric Acid 10-75%	X	X	X	X		X	X	X	2
Sulfuric Acid 75-95%	3	X	X	X		3	3	2	3
Sulfuric Acid 95%	2	X	X			2	2	2	X
Surlfurous Acid	X	X		X		X	3	2	X
Tannic Acid	3	3	1	X			1	1	1
Tar	1	2		1		2	1	1	1
Toluene, Toluol	1	1		1		1	1	1	1
Trichlorethylene	3	1		3		1	1	1	1
Turpentine		3		1		3	1	1	1
Varnish	2	2				1	1	1	1
Vegetable Oils	1	2		1		1	1	1	1
Vinegar	3	3		3		3	2	1	2
Water (Acid Mine Water)	3	X		3		2	1	1	3
Water (Fresh)	3	1		1		1	1	1	1
Water (Salt)	3	3	2	X		3	2	2	1
Whiskey	X	2				3	1	1	2
Wines	X	2				3	1	1	2
Xylene, Xylol	2	1		1		1	1	1	1
Zinc Chloride	X	X		X		3	2	1	1
Zinc Sulfate	3	3		3		3	2	1	1

*3 to X at high temperatures.

Chemical Chart is reprinted from 1996 RMA Hose Handbook

TECHNICAL DATA

OIL & GASOLINE RESISTANCE

Rubber hose is used to convey petroleum products both in the crude and refined stages. The aromatic content of refined gasoline is often adjusted to control the octane rating. The presence of aromatic hydrocarbons in this fuel generally has a greater effect on rubber components than do aliphatic hydrocarbons. Aromatic materials in contact with rubber tend to soften it and reduce its physical properties. For long lasting service, the buyer of gasoline hose should inform the hose manufacturer of the aromatic content of the fuel to be handled so that the proper tube compound can be recommended for the specific application.

The effects of oil on rubber depend on a number of factors that include the type of rubber compound, the composition of the oil, the temperature and time of exposure. Rubber compounds can be classified as to their degree of oil resistance based on their physical properties after exposure to a standard test fluid. In this RMA classification, the rubber samples are immersed in IRM 903 oil at 100°C for 70 hours. (See ASTM Method D-471 for a detailed description of the oil and the testing procedure.) As a guide to the user of hose in contact with oil, the oil resistance classes and a corresponding description are listed.

PHYSICAL PROPERTIES AFTER EXPOSURE TO OIL:

		VOLUME CHANGE MAXIMUM	TENSILE STRENGTH RETAINED
CLASS A	(HIGH OIL RESISTANCE)……....	**+25%**	**80%**
CLASS B	(MEDIUM/HIGH OIL RESISTANCE)……....	**+65%**	**50%**
CLASS C	(MEDIUM OIL RESISTANCE)……....	**+100%**	**40%**

CHEMICAL RECOMMENDATIONS

The materials being handled by flexible rubber hose are constantly increasing in number and diversity. T o assist in the selection of the proper elastomer for the service conditions encountered, the following table has been prepared. The reader is cautioned that it is only a guide and should be used as such, as the degree of resistance of an elastomer with a particular fluid depends upon such variables as temperature, concentration, pressure, velocity of flow, duration of exposure, aeration, stability of the fluid, etc. Also variations in elastomer types and special compounding of stocks to meet specific service conditions have considerable influence on the results obtained. When in doubt, it is always advisable to test the tube compound under actual service conditions. If this is not practical, tests should be devised that simulate service condtions or the hose manufacturer contacted for Recommendations.

The following table lists the more commonly used materials, chemicals, solvents, oils, etc. The recommendation are based on room temperature and pressure conditions normally recommended for the particular type of hose being used. Where conditions beyond this can be met readily, they have been so indicated; where conditions are not normal and cannot be readily met, the hose manufacturer should always be consulted. The table does not imply conformance to the Food & Drug Administration requirements of Federal or State Laws when handling food products.

TABLE OF CHEMICAL, OIL & SOLVENT RESISTANCE OF HOSE:

WARNING: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill its intended purpose, and may result in possible damage to property and serious bodily injury.

RESISTANCE RATING

A - Good Resistance, usually suitable for service.

F - Fair Resistance, the chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.

C- Depends on Condition, moderate service may be possible if chemical exposure is limited or infrequent.

X- Not recommended, unsuitable for service.

I - Insufficient Information, not enough data available at the time of publication to determine rating.

RELASTOMERS/PLASTICS

NR- Natural Rubber
IR - Isoprene, synthetic
SBR - Styrene-butadiene
CR- Chloroprene
NBR - Nitrile-butadiene
IIR- Isobutene-isoprene
CSM - Chloro-sulfonyl-polyethylene
EPDM - Ethylene-propylene-diene-terpolymer
MQ - Dimethyl-polysiloxane
FKM- Fluoracarbon rubber
CM - Chloro-polyethylene
ECO/CO- Ephichlorohydrin
EXLPE- Chloro-sulfonyl-polyethylene

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