

CAT 1

24

TYPE A

TYPE B

TYPE C

TYPE D

TYPE E

TYPE F

TYPE DC

TYPE DP

PREMIUM

TYPE A

TYPE B

TYPE C

TYPE D

TYPE E

TYPE F

TYPE DC

TYPE DP



BANJO



INDEX

○	BANJO CAM & GROOVE	2, 3
○	BANJO VALVES	4, 5
○	BANJO PIPE FITTINGS	6, 7
○	BANJO STRAINERS	8
○	BANJO FLANGES	9
○	TECHNICAL DATA	10-13

TERMS OF SALE

DISCLAIMERS

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 1000 net couplings and accessories, \$1500 Net Couplings, PVC Tubing, Braided Tubing and Fire Hose. Freight prepaid on \$3000 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.**

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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.

STOCKING WAREHOUSES

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DISCLAIMERS

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- Please contact your sales associate for current pricing.

BANJO CAM & GROOVE



BANJO CAM & GROOVE

ADAPTERS & COUPLERS

*Please Note: 4" Banjo Poly couplers B-C-D have 3 handles

Male Adapter x Female NPT

Size	Polypropylene	
	Part #	List
3/4"	075A PP	
1"	100A PP	
1-1/4"	125A PP	
1-1/2"	150A PP	
2"	200A PP	
3"	300A PP	
4"	400A PP	

*Coupler x Male NPT

Size	Polypropylene	
	Part #	List
3/4"	075B PP	
1"	100B PP	
1-1/4"	125B PP	
1-1/2"	150B PP	
2"	200B PP	
3"	300B PP	
4"	400B PP	

*Coupler x Hose Shank

Size	Polypropylene	
	Part #	List
3/4"	075C PP	
1"	100C PP	
1-1/4"	125C PP	
1-1/2"	150C PP	
2"	200C PP	
3"	300C PP	
4"	400C PP	

*Coupler x Female NPT

Size	Polypropylene	
	Part #	List
3/4"	075D PP	
1"	100D PP	
1-1/4"	125D PP	
1-1/2"	150D PP	
2"	200D PP	
3"	300D PP	
4"	400D PP	

Adapter x Hose Shank

Size	Polypropylene	
	Part #	List
3/4"	075E PP	
1"	100E PP	
1-1/4"	125E PP	
1-1/2"	150E PP	
2"	200E PP	
3"	300E PP	
4"	400E PP	

Adapter x Male NPT

Size	Polypropylene	
	Part #	List
3/4"	075F PP	
1"	100F PP	
1-1/4"	125F PP	
1-1/2"	150F PP	
2"	200F PP	
3"	300F PP	
4"	400F PP	

*Dust Cap

Size	Polypropylene	
	Part #	List
3/4"	075DC PP	
1"	100DC PP	
1-1/4"	125DC PP	
1-1/2"	150DC PP	
2"	200DC PP	
3"	300DC PP	
4"	400DC PP	

Dust Plug

Size	Polypropylene	
	Part #	List
3/4"	075DP PP	
1"	100DP PP	
1-1/4"	125DP PP	
1-1/2"	150DP PP	
2"	200DP PP	
3"	300DP PP	
4"	400DP PP	

Dust Caps & Dust Plugs are NOT recommended for pressure applications.

Metal fittings should not be used with Polypropylene Cam & Groove

SPOOL ADAPTER

Male Adapter x Male Adapter

Size	Part #	List
2" x 2"	200FF	
3" x 2"	300F200F	
3" x 3"	300FF	

LONGNECK "B"

Female Coupler x Extended Male Thread

Size	Part #	List
2" x 2"	201B	
3" x 3"	303B	

DA - 3" w/3 ARMS

Female Coupler x Male Adapter

Size	Part #	List
3" x 2"	303B200A	

ELBOW 90°

TYPE 90° A Male Adapter x Female NPT

Size	POLYPROPYLENE	
	Part #	List
1-1/2"	150A90	
2"	200A90	

ELBOW 90°

TYPE 90° C Female Coupler x Shank

POLYPROPYLENE	
Part #	List
150C90	
200C90	

ELBOW 90°

TYPE 90° D Female Coupler x Female NPT

Size	POLYPROPYLENE	
	Part #	List
1/2"	150D90	
1/2 x 3/4"	200D90	

ELBOW 90°

TYPE 90° F Male Adapter x Male NPT

POLYPROPYLENE	
Part #	List
150F90	
200F90	

Metal fittings should not be used with Polypropylene Cam & Groove

BANJO VALVES



BANJO VALVES

DRY DISCONNECT - DRY MATE®

► Spillage Data: 1-1/2" = 2ml. 2" = 2ml.



User Friendly:
Operating Dry-Mate is simple. The handles interlock making it easy to identify which handle opens or closes first. No guessing involved! The two Dry-Mate halves couple together with cam levers for positive engagement.



Design:
The Banjo Dry-Mate is designed for safe and easy spill free connections. The "double ball" design allows maximum flow, while the cam lever style of connection is the most recognized fluid connector.

Size		Part #	List	Features
1-1/2"	Male Dry Mate x FNPT	DM 150A		<ul style="list-style-type: none">- Lightweight- Unrestricted 1-1/2" flow- Minimal fluid spillage- Easy to use- Economical- Reduces risk of exposure- Wide range of chemical resistance- Cannot be uncoupled in open position- 100 psi @ 75°F- 70 psi @ 150°F
1-1/2"	Female Dry Mate x FNPT	DM 150D		
2"	Male Dry Mate x FNPT	DM 200A		
2"	Female Dry Mate x FNPT	DM 200D		
2"	Dust Cap	DM 200CAP		
2"	Dust Plug	DM 200PL		

DRY DISCONNECT-STUBBY VALVE™



Size	Details	Part #	List	Features
2"	2" Male Adapter x 2" Female NPT Thread	VSF200		<ul style="list-style-type: none">- All PTFE, Seals- Stainless steel bolts- Glass filled polypropylene- Maximum operating pressure- 100 P.S.I. @ 70°F, 75 P.S.I. @ 150°F- Unique patented compact design- Lightweight- Three design options
2"	2" Male NPT Thread x 2" Female NPT Thd	VSMT200		
2"	2" Male Adapter x 2" Male NPT Thread	VSFMT200		

Metal fittings should not be used with Polypropylene Cam & Groove

BALL VALVES & NOZZLES

Size	Polypropylene	
	Part #	List
1/2"	V 050	
3/4"	V 075	
1"	V 100	
1"	V 100 FP	
1-1/4"	V 125	
1-1/4"	V 125 FP	
1-1/2"	V 150 FP	
2"	V 200	
2"	V 200 FP	
3"	V 300	
3"	V 300 FP	
4"	V 400	
1"	VA 100	
1-1/2"	VA 150	
2"	VA 200	
2 x 1-1/2"	VA 200/150	
2"	VA 200 FP	

- Features:**
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
 - Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
 - Ball is diamond turned after molding to make it spheriy perfect, which provides the right contact between ball and seats.
 - Viton "O" ring stem seal.
 - PTFE self-lubricating stem bushings and seats cannot stick or rust.
 - Stainless steel nuts and bolts are used to insure easy disassembly in corrosive conditions.
 - Maximum operating pressure 100 P.S.I.
 - Sizes 1/2" thru 2" have a four bolt construction. 2" full port, and 3" full port have six bolt construction. All have Viton O-Rings and PTFE seats as a standard.
 - Lightweight hose end valve for convenient transfer of liquids. Angle and flange with 8" long poly propylene fill spout. Same features as straight through valve.



BALL VALVES - 6 & 4 BOLT DESIGN



6 Bolt Design

Detail	Bolt Design	Polypropylene	
		Part #	List
2" Valve 2" Male Adapter X 2" Male NPT Thread	6	VFMT200FP	
2" Valve 2" Male NPT Thread X 2" Male Adapter	4	VFMT204FP	

- Features:**
- 6 BOLT DESIGN**

 - All stainless steel hardware
 - Precision molded in glass filled polypropylene
 - Self-aligning ball moves freely against the PTFE seats for smooth operation.
 - Ball is spheriy perfect
 - Viton "O" ring stem seal.
 - PTFE self-lubricating stem bushings & seats cannot stick or bind.
 - 100 P.S.I maximum @ 70°F & 75 P.S.I. @ 150°F
- 2" FULL PORT, 4 BOLT DESIGN**

 - All stainless steel hardware
 - Precision molded in glass filled polypropylene
 - Viton seals
 - 100% PTFE ball seats
 - 100 P.S.I maximum @ 70°F & 75 P.S.I. @ 150°F



4 Bolt Design

VALVE LOCKING

Size	Polypropylene	
	Part #	List
Handle for V125-FP, V150, VA150, V200, VA200	V20153	
Handle for FMT200FP, V300, V300FP, V400	V25153	
Locking Device for V125FP, V150, V200	VL20153	
Locking Handle for V200FP, V300, V300FP, V400, VFMT200FP	VL25153	



POLYPROPYLENE NOZZLE

Details	Pipe Size	Female NPT Thread	Polypropylene		
			Part #	List	Features
Poly Nozzle Valve	1"	1"	VN 100		<ul style="list-style-type: none">- Glass filled polypropylene.- Stainless steel handle, spring & pin.- Viton® rubber parts.- Resists corrosion.- Padlock capability- 75 P.S.I. maximum.- 40 G.P.M.



Metal fittings should not be used with Polypropylene Cam & Groove

BANJO PIPE FITTINGS

STREET ELBOW 90°



Size	Polypropylene	
	Part #	List
3/8"	SL038-90	
1/2"	SL050-90	
3/4"	SL075-90	
1"	SL100-90	
1-1/4"	SL125-90	
1-1/2"	SL150-90	
2"	SL200-90	
3"	SL300-90	

STREET ELBOW 45°



Size	Polypropylene	
	Part #	List
3/8"	---	
1/2"	---	
3/4"	SL075-45	
1"	SL100-45	
1-1/4"	SL125-45	
1-1/2"	SL150-45	
2"	SL200-45	
3"	SL300-45	

PIPE ELBOW 90°



Size	Polypropylene	
	Part #	List
3/8"	EL038-90	
1/2"	EL050-90	
3/4"	EL075-90	
1"	EL100-90	
1-1/4"	EL125-90	
1-1/2"	EL150-90	
2"	EL200-90	
3"	EL300-90	

PIPE ELBOW 45°



Size	Polypropylene	
	Part #	List
3/8"	---	
1/2"	---	
3/4"	---	
1"	EL100-45	
1-1/4"	---	
1-1/2"	---	
2"	---	
3"	---	

NIPPLE



Size	Nipple Size	Polypropylene	
		Part #	List
3/8"	Short	NIP038-SH	
1/2"	Short	NIP050-SH	
1/2" X 3"	Poly Pipe	NIP050-3	
3/4"	Short	NIP075-SH	
3/4" X 4"	Poly Pipe	NIP075-4	
3/4" X 6"	Poly Pipe	NIP075-6	
1"	Short	NIP100-SH	
1" X 4"	Poly Pipe	NIP100-4	
1" X 6"	Poly Pipe	NIP100-6	
1-1/4"	Short	NIP125-SH	
1-1/4" X 4"	Poly Pipe	NIP125-4	
1-1/4" X 6"	Poly Pipe	NIP125-6	
1-1/2"	Short	NIP150-SH	
1-1/2" X 3"	Poly Pipe	NIP150-3	
1-1/2" X 4"	Poly Pipe	NIP150-4	
1-1/2" X 5"	Poly Pipe	NIP150-5	
1-1/2" X 6"	Poly Pipe	NIP150-6	
2" X 2"	Short	NIP200-SH	
2" X 4"	Poly Pipe	NIP200-4	
2" X 6"	Poly Pipe	NIP200-6	
3"	Short	NIP300-SH	
3" X 4"	Poly Pipe	NIP300-4	
3" X 6"	Poly Pipe	NIP300-6	
4"	Short	NIP400-SH	

Metal fittings should not be used with Polypropylene Cam & Groove

NPT X FPT POLY REDUCER BUSHINGS



Size	Polypropylene	
	Part #	List
3/8" NPTx1/4" FPT	RB038-025	
1/2" NPTx1/4" FPT	RB050-025	
1/2" NPTx3/8" FPT	RB050-038	
3/4" NPTx1/8" FPT	RB075-018	
3/4" NPT x1/4" FPT	RB075-025	
3/4" NPTx3/8" FPT	RB075-038	
3/4" NPTx1/2" FPT	RB075-050	
1" NPTx1/8" FPT	RB100-018	
1" NPTx1/4" FPT	RB100-025	
1" NPTx1/2" FPT	RB100-050	
1" NPTx3/4" FPT	RB100-075	
1-1/4" NPTx3/4" FPT	RB125-075	
1-1/4" NPTx1" FPT	RB125-100	
1-1/2" NPTx3/4" FPT	RB150-075	
1-1/2" NPTx1" FPT	RB150-100	
1-1/2" NPTx1-1/4" FPT	RB150-125	
2" NPTx3/4" FPT	RB200-075	
2" NPTx1" FPT	RB200-100	
2" NPTx1-1/4" FPT	RB200-125	
2" NPTx1-1/2" FPT	RB200-150	
3" NPTx1-1/2" FPT	RB300-150	
3" NPTx2" FPT	RB300-200	
4" NPTx3" FPT	RB400-300	
---	---	

TEES



Size	Polypropylene	
	Part #	List
3/8"	TEE038	
1/2"	TEE050	
3/4"	TEE075	
1"	TEE100	
1-1/4"	TEE125	
1-1/2"	TEE150	
2"	TEE200	
3"	TEE300	

COUPLINGS



Size	Polypropylene	
	Part #	List
3/8"	CPLG038	
1/2"	CPLG050	
3/4"	CPLG075	
1"	CPLG100	
1-1/4"	CPLG125	
1-1/2"	CPLG150	
2"	CPLG200	
3"	CPLG300	

PIPE PLUG



Size	Polypropylene	
	Part #	List
3/8"	---	
1/2"	PLUG050	
3/4"	PLUG075	
1"	PLUG100	
1-1/4"	PLUG125	
1-1/2"	PLUG150	
2"	PLUG200	
3"	PLUG300	

PIPE CAP



Size	Polypropylene	
	Part #	List
3/8"	---	
1/2"	CAP050	
3/4"	CAP075	
1"	CAP100	
1-1/4"	CAP125	
1-1/2"	CAP150	
2"	CAP200	
3"	CAP300	

REDUCER NIPPLES



Size	Polypropylene	
	Part #	List
1/2" x 3/8"	RN050-038	
3/4" x 1/2"	RN075-050	
1" x 1/2"	RN100-050	
1" x 3/4"	RN100-075	
1-1/4" x 3/4"	RN125-075	
1-1/4" x 1"	RN125-100	
1-1/2" x 1"	RN150-100	
1-1/2" x 1-1/4"	RN150-125	
2" x 1-1/4"	RN200-125	
2" x 1-1/2"	RN200-150	
3" x 2"	RN300-200	

Metal fittings should not be used with Polypropylene Cam & Groove

HOSE MENDER



Size	Polypropylene	
	Part #	List
1/2"	HM050	
3/4"	HM075	
1"	HM100	
1-1/4"	HM125	
1-1/2"	HM150	
2"	HM200	
3"	HM300	
---	---	
---	---	
---	---	
---	---	
---	---	

PIPE CROSS



Size	Polypropylene	
	Part #	List
3/4"	CR075	
1"	CR100	
1-1/4"	CR125	
1-1/2"	CR150	
2"	CR200	
---	---	
---	---	
---	---	
---	---	
---	---	
---	---	

HOSE BARBS



Features:
- Precision molded in polypropylene.
- Hose Barbs are designed specifiy to fit properly when inserted into hose.
- Polypropylene is glass filled for rugged strength & durability.
Male Thread x Hose Shank

Size	Polypropylene	
	Part #	List
3/8"	HB038	
3/8" x 1/2"	HBO38-050	
1/2" x 3/8"	HB050-038	
1/2"	HB050	
1/2" x 3/4"	HB050-075	
3/4" x 3/8"	HB075-038	
3/4" x 1/2"	HB075-050	
3/4" x 5/8"	HB075-058	
3/4"	HB075	

Size	Polypropylene	
	Part #	List
3/4" x 1"	HB075-100	
1" x 3/4"	HB100-075	
1"	HB100	
1" x 1-1/4"	HB100-125	
1-1/4" X 3/4"	HB125-075	
1-1/4" X 1"	HB125-100	
1-1/4"	HB125	
1-1/4" x 1-1/2"	HB125-150	
1-1/2" x 1"	HB150-100	

Size	Polypropylene	
	Part #	List
1-1/2" x 1-1/4"	HB150-125	
1-1/2"	HB150	
1-1/2" x 2"	HB150-200	
2" x 1-1/2"	HB200-150	
2"	HB200	
3"	HB300	
4"	HB400	
---	---	
---	---	

BANJO STRAINERS

LINE STRAINERS



- Features:
- Precision molded construction.
 - Corrosion resistant.
 - Lightweight.
 - Easy grip end cap.
 - 304 Stainless steel screen (polypropylene screens optional)
 - EPDM gasket.
 - Heavy duty end cap threads.
- Note: Last 2 digits of part # is the mesh of the screen.

Size	Polypropylene	
	Part #	List
3/4"	LS075-20	
3/4"	LS075-40	
3/4"	LS075-80	
1"	LS100-20	
1"	LS100-40	
1"	LS100-80	
1-1/2"	LS150-06	
1-1/2"	LS150-12	
1-1/2"	LS150-20	
1-1/2"	LS150-30	
1-1/2"	LS150-50	
1-1/2"	LS150-80	
2"	LS200-06	
2"	LS200-12	
2"	LS200-20	
2"	LS200-30	
2"	LS200-50	
2"	LS200-80	

"T" STRAINERS



Size	Polypropylene	
	Part #	List
3/4"	LST075-16	
3/4"	LST075-30	
3/4"	LST075-50	
3/4"	LST075-80	
3/4"	LST075-100	
1"	LST100-16	
1"	LST100-30	
1"	LST100-50	
1"	LST100-80	
1"	LST100-100	
1-1/2"	LST150-16	
1-1/2"	LST150-30	
1-1/2"	LST150-50	
1-1/2"	LST150-80	
1-1/2"	LST150-100	
---	---	
---	---	
---	---	

"Y" STRAINERS

▶ WARNING: 3" Polypropylene "Y" Strainer to be used on suction side or non-pressure side in all applications.



Polypropylene		
Size 3" X 3"		
STRAINER Mesh Screen	Part #	List
4	LSM300-04	
8	LSM300-08	
12	LSM300-12	
20	LSM300-20	
50	LSM300-50	
Features:		
· Lightweight.		
· High Volume		
· Constructed of glass filled polypropylene.		
· Stainless steel "T" handle clamp.		
· 1/2" drain plug in bottom of cap.		
· Reinforced stainless steel screen.		

CLASS 150 ANSI FLANGES

▶ EPDM Gasket Included



Details	Part #	List	Features
1" X 1-1/2" Threaded Flange	BF100PP		- Glass reinforced for stability, strength and durability. - Precision molded solid, one-piece construction. - 150 P.S.I. maximum operating pressure.
1-1/2" X 2" Threaded Flange	BF150PP		
2" X 2" Threaded Flange	BF200PP		
3" X 3" Threaded Flange	BF300PP		

Metal fittings should not be used with Polypropylene Cam & Groove

THREADED FLANGE

▶ Gasket sold separately



BLIND FLANGE

▶ Gasket sold separately (Blank Flange)



REPLACEMENT MESH - LST



Size	304 SS	
	Part #	List
3/4" & 1"	LST116 *	
3/4" & 1"	LST130 *	
3/4" & 1"	LST150 *	
3/4" & 1"	LST180 *	
3/4" & 1"	LST1100 *	
1-1/4" & 1-1/2"	LST1516 *	
1-1/4" & 1-1/2"	LST1530 *	
1-1/4" & 1-1/2"	LST1550 *	
1-1/4" & 1-1/2"	LST1580 *	
1-1/4" & 1-1/2"	LST15100 *	
2"	LST204SS **	
2"	LST206SS **	
2"	LST208SS **	
2"	LST210SS **	
2"	LST216SS **	
2"	LST230SS **	
2"	LST250SS **	
2"	LST280SS **	
2"	LST2100SS **	

*304 Stainless Steel **LS300 Reinforced Stainless Screen

REPLACEMENT MESH - LS

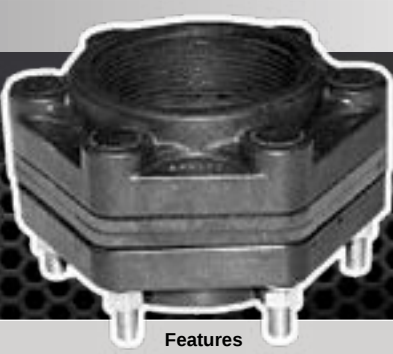


Size	304 SS	
	Part #	List
1/2" to 3/4"	LS720	
1/2" to 3/4"	LS740	
1/2" to 3/4"	LS780	
1" to 1-1/4"	LS120	
1" to 1-1/4"	LS140	
1" to 1-1/4"	LS180	
1-1/2" to 2"	LS206	
1-1/2" to 2"	LS212	
1-1/2" to 2"	LS220	
1-1/2" to 2"	LS230	
1-1/2" to 2"	LS250	
1-1/2" to 2"	LS280	
3" X 3"	*LS304	
3" X 3"	*LS308	
3" X 3"	*LS312	
3" X 3"	*LS320	
3" X 3"	*LS350	
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304 Stainless Steel *LS300 Reinforced Stainless Screen

MESH	MICRONS	WIRE DIAMETER	OPENING	% OPEN AREA	MESH	MICRONS	WIRE DIAMETER	OPENING	% OPEN AREA
4 Mesh	4760	.047	.203	65.9	20 Mesh	841	.016	.034	46.2
6 Mesh	3360	.035	.132	62.7	30 Mesh	595	.012	.021	40.8
8 Mesh	2380	.028	.097	60.2	50 Mesh	297	.009	.011	30.3
10 Mesh	2000	.025	.075	56.3	80 Mesh	177	.0055	.007	31.4
12 Mesh	1680	.023	.060	51.8	100 Mesh	149	.0045	.005	30.3
16 Mesh	1190	.018	.044	50.7					

BANJO FLANGES



Metal fittings should not be used with Polypropylene Cam & Groove

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
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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

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

TECHNICAL DATA

CORROSION RESISTANCE OF COUPLING MATERIALS

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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

TECHNICAL DATA

OIL & GASOLINE RESISTANCE

Rubber hose is used to convey petroleum products both in the crude and refined stages. The aromatic content of re-fined 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	RELASTOMERS/PLASTICS	
A - Good Resistance, usually suitable for service.	NR - Natural Rubber	EPDM - Ethylene-propylene-diene-terpolymer
F - Fair Resistance, the chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.	IR - Isoprene, synthetic	MQ - Dimethyl-polysiloxane
	SBR - Styrene-butadiene	FKM - Fluoracarbon rubber
C - Depends on Condition, moderate service may be possible if chemical exposure is limited or infrequent.	CR -Chloroprene	CM - Chloro-polyethylene
	NBR - Nitrile-butadiene	ECO/CO - Ephichlorohydrin
X -Not recommended, unsuitable for service.	IIR -Isobutene-isoprene	EXLPE - Chloro-sulfonyl-polyethylene
I - Insufficient Information, not enough data available at the time of publication to determine rating.	CSM - Chloro-sulfonyl-polyethylene	

NOTES

[illegible]