

# Fluid Compatibility

## Fluid compatibility

This chart indicates the suitability of various elastomers and metals for use with fluids to be conveyed. It is intended as a guide only and is not a guarantee. Final selection of the proper hose style, seal, or material of metal components is further dependent on many factors including pressure, fluid and ambient temperature, concentration, duration of exposure, etc.

## How to use the chart

1. The chart has separate sections for rating elastomers for use as hose inner tubes and as seals. Ratings for a given elastomer may not always be the same in both sections.

2. Both the elastomer and the metal must be considered when determining suitability of a combination for a hose assembly, adapter with o-ring, swivel joint or coupling.

3. Locate the fluid to be conveyed and determine the suitability of the elastomeric and metal components according to the resistance ratings shown for each.

4. Specific hose part numbers can be found under the inner tube material groupings in the Hose Tube Identification Chart.

5. Dimensional and operating specifications for each hose can be found on the catalog pages shown with each hose part number.

6. Information on o-rings and seal options for swivel joints and couplings, and how to specify them, are shown in the respective sections of this catalog.

7. For further details on the products shown in this catalog, and their applications, contact:

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## Resistance key rating

- E = Excellent – Fluid has little or no effect.
- G = Good – Fluid has minor to moderate effect.
- C = Conditional – Service conditions should be described to Eaton Aeroquip for determination of suitability for application.
- U = UNSATISFACTORY

The differences between ratings “E” and “G” are relative. Both indicate satisfactory service. Where there is a choice, the materials rated “E” may be expected to give better or longer service than those rated “G”.

**NOTE:** Special precautions are necessary in gaseous applications due to the potential volume of gaseous fluid in the system. Unless the cover is perforated, hose styles with rubber or thermoplastic covers are not suitable for gases above 250 psi. Hose styles with perforated covers are so noted in their construction descriptions.



### WARNING

Compatibility of hose fittings with conveyed fluid is an essential factor in avoiding chemical reactions that may result in release of fluids or failure of the connection with the potential of causing severe personal injury or property damage.

## Hose tube identification chart

### 1. Synthetic Rubber

302A (p.26)	2781 (p.47)	FC606 (p.56)	GH120 (p.45)
303 (p.26)	FC254 (p.53)	FC647 (p.33)	GH466 (p.55)
1503 (p.26)	FC273/ (p.54)	FC735 (p.46)	GH493 (p.51)
2556 (p.34)	FC273B (p.54)	FC736 (p.53)	GH506 (p.55)
2565 (p.34)	FC310 (p.41)	FC849/ (p.43)	GH663 (p.39)
2580 (p.37)	FC466 (p.35)	FC849B (p.44)	GH681 (p.42)
2583 (p.37)	FC579 (p.57)	FC849B (p.43)	GH781 (p.47)
2651 (p.25)	FC619 (p.34)	FC500 (p.52)	GH793 (p.48)
2681 (p.38)	FC639/ (p.42)	GH810 (p.56)	EC850 (p.51)
			EC910 (p.52)

### 2. PTFE

2807 (p.28)	FC363 (p.31)	FC465 (p.29)	FC563 (p.32)
2808 (p.30)	FC364 (p.31)	FC469 (p.30)	S-TW (p.29)

### 3. Synflex Thermoplastic Elastomer

### 4. AQP

2661 (p.35)	FC332 (p.33)	FC350 (p.23)	FC598 (p.36)
FC195 (p.49)	EC525 (p.50)	FC355 (p.23)	FC650 (p.24)
FC234 (p.25)		FC498 (p.36)	FC699 (p.24)
FC300 (p.27)		FC510 (p.41)	GH194 (p.39)
		FC598 (p.36)	GH195 (p.48)

### 5. Special Application Hose (Not Included in Fluid Chart)

FC234	FC650	GH100	Fuel	(pp.25, 24)
CR170	FC321		LPG	(pp.27, 28)
1531	1531A		Railroad Air Brake	(p.22)
EH225	EH226	EC038	Silicone	(p.20)
2550	2554	2570	FC350	Truck Air Brake (pp.21-23)

### 6. EPDM Rubber

FC611 (p.40)	FC636 (p.49)	FC693 (p.46)
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## SEAL ELASTOMER DATA

Seal Elastomer	Application Specification	Max. Operating Temperature Range
Buna-N†	none	-40°C to +121°C [-40°F to +250°F]
Neoprene	none	-54°C to +100°C [-65°F to +212°F]
EPR (Ethylene Propylene Rubber)/EPDM	none	-54°C to +149°C [-65°F to +300°F]
Viton*	MIL-R-25897	-29°C to +204°C [-15°F to +400°F]

†Buna-N temperature range -65°F to +225°F. Also per MIL-R-8855.

\*Viton is a trademark of E.I. DuPont.

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FLUID	Synthetic Rubber						Thermoplastic Elastomer						Special Application Hose						SEALS						METAL										
	PTFE		Thermoplastic Elastomer		AQP		EPDM		Buna-N		Neoprene		EPR		Viton*		Urethane		HyTrel		Steel		Brass		Stainless Steel		Aluminum		Monel						
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5
Acetaldehyde	U	E	C	U	G	U	C	C	U	U	G	U	C	C	U	U	G	G	E	F	E	F	E	E	E	E	E	E	E	E	E				
Acetic Acid, 10%	U	E	C	C	E	U	U	E	G	U	C	U	U	E	G	U	C	U	U	C	C	U	U	C	C	U	U	U	U	U	U				
Acetic Acid, Glacial	U	E	C	C	E	U	U	C	U	U	C	U	U	C	U	C	U	U	C	C	C	U	U	C	C	U	U	U	U	U	U				
Acetone	U	E	G	U	E	U	U	G	U	U	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Acetophenone	U	E	-	U	E	U	U	E	U	U	-	E	E	E	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Acetyl Acetone	U	E	U	U	E	U	U	G	U	U	G	U	C	C	C	C	C	C	C	C	C	U	U	C	C	C	C	C	C	C	C				
Acetyl Chloride	U	E	U	U	E	U	U	U	U	U	E	U	C	C	C	U	E	U	C	C	C	U	U	C	C	U	U	U	U	U	U				
Acetylene <sup>1</sup>	G	E	G	G	E	U	U	G	F	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Air, Hot (Up to +160°F) <sup>1</sup>	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Air, Hot (161°F - 200°F) <sup>1</sup>	C	E	U	E	E	G	G	G	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Air, Hot (201°F - 300°F) <sup>1</sup>	U	E	U	C	E	G	U	G	E	U	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Air Wet, below 160°F <sup>1</sup>	E	E	C	E	E	E	E	E	E	E	G	C	U	G	E	E	E	E	E	E	E	U	G	E	E	E	E	E	E	E	E				
Aluminum Chloride, 10% aq	E	E	E	E	E	E	E	E	E	E	E	G	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Aluminum Fluoride, 10% aq	E	E	E	U	E	E	E	E	E	E	G	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Aluminum Nitrate, 10% aq	E	E	E	C	E	E	E	E	E	E	E	G	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Aluminum Sulfate, 10% aq	E	E	E	G	E	E	E	E	E	E	E	-	G	U	C	E	E	E	E	E	E	U	C	E	E	E	E	E	E	E	E				
Alums, 10% aq	E	E	E	E	E	E	E	E	E	E	E	E	E	U	C	E	E	E	E	E	E	U	C	E	E	E	E	E	E	E	E				
Ammonia, Anhydrous <sup>1</sup>	C	U	U	C	E	E	E	E	U	-	-	E	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Ammonia, Aqueous	G	G	U	C	E	E	E	E	U	-	-	E	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Ammonium Carbonate, 10% aq	U	E	C	U	E	U	E	E	E	U	-	C	U	C	C	C	C	C	C	C	U	U	C	C	C	C	C	C	C	C	C				
Ammonium Chloride, 10% aq	E	E	C	U	E	E	E	E	U	-	-	U	U	C	U	C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Ammonium Hydroxide, 10% aq	U	E	U	U	E	C	C	E	C	U	U	G	U	C	C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Ammonium Nitrate, 10% aq	E	E	C	U	E	E	G	E	U	G	C	G	U	G	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Ammonium Phosphate, 10% aq	E	E	C	U	E	E	E	E	-	G	C	U	C	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Ammonium Sulfate/Sulfide, 10% aq	E	E	C	U	E	E	E	E	U	G	C	U	U	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Amyl Acetate	U	E	U	U	E	U	U	G	U	U	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Amyl Alcohol	G	E	E	C	E	G	C	E	G	C	E	G	E	U	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Aniline, Aniline Oil	U	E	U	U	E	U	U	G	U	U	U	E	U	E	G	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Aniline Dyes	U	E	U	U	E	U	U	G	U	U	U	U	C	G	C	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Asphalt, < 200°F	C	E	G	G	U	G	C	U	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
IRM 901	E	E	E	E	U	E	E	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
ASTM #2	E	E	E	E	U	E	G	U	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
IRM 903	E	E	E	E	U	E	G	U	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E			
Automatic Trans. Fluid <sup>2</sup>	G	E	G	G	U	E	G	U	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Barium Chloride, 10% aq	E	E	C	C	E	E	E	E	E	E	G	C	U	G	G	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Barium Hydroxide, 10% aq	E	E	G	C	E	E	E	E	E	E	E	G	U	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Barium Sulfide, 10% aq	E	E	C	C	E	E	E	E	E	E	G	C	U	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Benzene, Benzol	U	E	U	U	U	U	U	U	U	E	U	C	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Benzoic Acid	U	E	C	U	E	U	U	G	U	E	C	C	U	G	G	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Benzyl Alcohol	U	E	C	U	E	U	U	G	E	C	C	U	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Biodiesel (<180°F)	G	E	G	C	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Biodiesel (>180°F)	C	E	U	U	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Black Sulfate Liquor	G	E	C	C	E	C	C	C	E	U	C	E	C	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Blast Furnace Gas	C	U	C	G	U	U	U	U	E	U	C	E	C	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Borax, 10% aq	E	E	G	C	E	E	G	G	E	E	G	E	E	E	E	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Boric Acid, 10% aq	E	E	C	E	E	G	G	E	G	G	E	G	U	C	C	C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Brine	G	E	C	C	C	E	G	E	E	E	G	C	U	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Bromine, Dry	U	E	U	U	U	U	U	U	E	U	U	U	C	U	C	C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Butane <sup>1</sup>	LPG Approved Hose Only	E	C	U	E	-	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Butyl Acetate	U	E	U	U	E	U	U	G	U	U	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Butyl Alcohol	E	E	G	G	C	E	E	G	E	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G				
Butyl Cellosolve	U	E	U	U	E	U	U	G	U	U	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Butylene (Butene) <sup>1</sup>	C	E	-	C	U	C	U	U	E	U	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Butyl Stearate	U	E	-	U	U	G	U	U	E	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G				
Butyraldehyde	U	E	-	U	E	U	U	G	U	U	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
Calcium Acetate, 10% aq	G	E	C	C	E	G	G	E	U	U	C	G	G	C	G	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Calcium Bisulfate, 10% aq	U	E	C	G	U	E	E	U	E	G	E	U	C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Calcium Chloride, 10% aq	E	E	E	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				

This chart is intended for reference use only.  
The information in this chart pertains strictly to material compatibility and is not intended to be used as an application guide.  
For information on specific applications not included in this catalog, please contact Eaton Aeroquip.

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FLUID	Synthetic Rubber						Thermoplastic Elastomer						Special Application Hose						SEALS						METAL										
	PTFE		Thermoplastic Elastomer		AQP		EPDM		Buna-N		Neoprene		EPR		Viton*		Urethane		HyTrel		Steel		Brass		Stainless Steel		Aluminum		Monel						
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5
Calcium Hydroxide, 10% aq	E	E	C	C	E	U	C	C	U	U	G	U	C	C	U	U	G	G	E	F	E	F	E	E	E	E	E	E	E	E	E				
Calcium Hypochlorite, 10% aq	C	E	C	U	E	U	U	E	G	U	C	U	U	E	G	U	C	U	U	C	C	U	U	C	C	U	U	U	U	U					

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1 FLUID	Synthetic Rubber						Thermoplastic Elastomer						Special Application Hose						SEALS						METAL							
	PTFE		AQP		EPDM		Buna-N		Neoprene		EPR		Viton*		Urethane		Hytel		Steel		Brass		Stainless Steel		Aluminum		Monel					
2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6			
Heptane	E	E	E	C	U	E	G	U	E	G	G	U	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E			
Hexaldehyde	U	E	-	U	E	U	G	G	U	U	-	G	G	F	E	G	G	F	E	F	E	G	F	E	G	F	E	G	F	E		
Hexane	E	E	E	E	U	E	G	U	E	G	G	U	E	G	G	E	F	E	F	E	E	F	E	E	F	E	E	F	E	E		
Hydraulic Oils <sup>2</sup>																																
Ester Blend	C	E	C	G	C	E	U	U	E	U	E	U	E	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
Phos. Ester/Petroleum Blend	U	E	C	U	U	U	U	U	C	U	G	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Silicone Oils	F	F	F	F	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Straight Petroleum Base	E	E	E	E	U	E	G	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Straight Phosphate Ester	U	E	C	U	E	U	G	C	U	G	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Water Glycol	E	E	C	G	E	E	E	E	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Water Petroleum Emulsion	E	E	C	G	U	F	G	U	E	C	C	C	F	E	G	E	F	E	G	E	C	C	F	E	G	E	F	E	G	E	F	E
Hydrobromic Acid	U	E	U	E	G	U	U	E	F	U	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	
Hydrochloric Acid, Cold	U	E	U	U	G	U	U	G	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Hydrocyanic Acid	C	E	-	U	E	C	C	F	E	-	-	E	F	G	F	E	G	F	E	G	F	E	G	F	E	G	F	E	G	F	E	G
Hydrofluoric Acid	U	E	U	U	U	U	U	C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Hydrofluorosilic Acid	F	E	-	G	G	G	G	F	E	-	-	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Hydrogen <sup>1</sup>	G	C	G	G	E	F	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
Hydrogen Peroxide	C	F	G	C	G	G	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	
Hydrogen Sulfide, Dry	C	C	C	U	E	U	G	E	U	-	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	
Isocyanate	U	E	U	U	U	U	U	G	E	U	U	G	-	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iso Octane	G	E	E	G	U	E	G	U	E	G	E	G	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Isopropyl Acetate	U	E	C	U	C	U	U	G	U	U	C	E	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Isopropyl Alcohol	G	E	C	G	E	G	G	E	U	C	E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	
Isopropyl Ether	G	E	-	C	U	G	U	U	C	-	G	G	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>JP-4, JP-5</b>	E	E	G	E	U	E	U	U	E	U	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
<b>Kerosene</b>	G	E	G	E	U	E	U	U	E	U	G	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
<b>Lacquer/Lacquer Solvents</b>	U	E	U	U	E	U	U	U	U	U	U	G	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Lime Sulfur	U	E	C	U	E	U	E	E	C	C	G	U	G	-	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Linseed Oil	E	E	G	G	U	E	E	G	U	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
LPG <sup>1</sup>	LPG Approved Hose Only						E						G						U													
Lubricating Oils <sup>2</sup>	See Hydraulic Oils						See Hydraulic Oils						See Hydraulic Oils																			
<b>Magnesium Chloride, 10% aq</b>	E	E	C	E	E	E	E	E	E	C	C	E	C	C	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Magnesium Hydroxide, 10% aq	G	E	C	G	E	G	G	E	E	C	C	E	G	E	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Magnesium Sulfate, 10% aq	E	E	C	E	E	E	E	E	E	C	C	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Maleic Acid	U	E	C	C	G	U	U	U	E	C	C	E	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Maleic Anhydride	U	E	C	U	C	U	U	U	E	C	C	G	U	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	
Malic Acid	G	E	-	G	U	G	G	U	E	-	-	U	-	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	
Mercuric Chloride	G	E	E	G	G	F	E	E	E	E	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Mercury	F	F	F	F	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Methanol	E	E	C	E	E	G	G	E	U	C	C	G	G	E	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Methyl Bromide	C	E	U	U	U	G	U	U	E	U	E	U	E	G	U	E	G	U	E	G	U	E	G	U	E	G	U	E	G	U	E	
Methyl Chloride	U	E	U	U	U	U	U	U	E	U	U	E	E	E	U	G	E	E	E	U	G	E	E	U	G	E	E	E	U	G	E	
Methyl Butyl Ketone	U	E	U	U	E	U	U	E	U	C	C	E	F	E	-	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone	U	E	U	U	E	U	U	E	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methylene Chloride	U	E	U	U	U	U	U	U	G	U	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methyl Isobutyl Ketone	U	E	U	U	E	U	U	U	U	U	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methyl Isopropyl Ketone	U	E	U	C	E	U	U	U	U	U	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methyl Salicylate	U	E	-	U	C	U	U	C	U	-	-	E	G	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	
MIL-L-2104	E	E	E	E	U	E	G	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
MIL-H-5606	E	E	E	E	U	E	G	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
MIL-H-6083	F	E	F	F	U	E	F	U	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
MIL-L-7808	G	E	G	G	U	G	U	U	E	G	G	G	G	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MIL-L-23699	E	E	-	G	U	G	U	U	E	-	-	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
MIL-H-46170	G	E	-	G	C	E	G	U	E	-	-	E	E	E	-	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MIL-H-83282	G	E	-	G	U	E	U	U	E	-	-	E	E	E	-	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mineral Oils	E	E	G	E	U	E	G	U	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
<b>Naphtha</b>	C	E	G	E	U	C	U	U	E	C	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	U	E	U	U	U	U	U	U	E	C	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthenic Acid	U	E	-	U	U	C	U	U	E	-	-	-	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	

E = EXCELLENT  
G = GOOD  
C = CONDITIONAL  
U = UNSATISFACTORY

1 FLUID	Synthetic Rubber						Thermoplastic Elastomer						Special Application Hose						SEALS						METAL					
	PTFE		AQP		EPDM		Buna-N		Neoprene		EPR		Viton*		Urethane		Hytel		Steel		Brass		Stainless Steel		Aluminum		Monel			
2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	
Natural Gas <sup>1</sup>	LPG Approved Hose Only						E						E						G											
Nickel Acetate, 10% aq	G	C	U	G	E	C	C	E	G	U	U	G	C	E	U	U	G	C	E	U	U	G	C	E	U	U	G	C	E	U
Nickel Chloride, 10% aq	F	E	U	E	F	E	G	E	F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Nickel Sulfate, 10% aq	E	E	U	E	E	E	E	E	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Nitric Acid, to 10%	U	E	U	U	G	U	U	U	E	U	U	E	U	U	E	U	U	E	U											

# Fluid Compatibility

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES

E = EXCELLENT  
G = GOOD  
C = CONDITIONAL  
U = UNSATISFACTORY

FLUID	Synthetic Rubber						Thermoplastic Elastomer						Special Application Hose						SEALS						METAL												
	HOSE						HOSE						HOSE						HOSE						HOSE												
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
Sodium Hypochlorite, 10% aq	C	E	C	G	G	C	C	C	E	C	C	C	C	C	E	C	C	C	C	C	E	C	C	C	C	C	E	C	C	C	U	U	U	U	U	C	
Sodium Metaphosphate, 10% aq	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G	U	G	G	
Sodium Nitrate, 10% aq	G	E	E	G	E	G	G	G	E	-	E	E	G	G	E	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	C	E	E	E	E	
Sodium Perborate, 10% aq	G	E	-	G	E	G	G	G	E	E	-	-	G	G	E	E	-	-	E	E	E	E	E	E	E	E	E	E	E	E	C	U	C	U	C	C	
Sodium Peroxide, 10% aq	G	E	-	G	E	G	G	G	E	E	U	-	G	G	E	E	U	-	E	E	E	E	E	U	E	U	C	U	C	C	U	U	C	C	C	C	
Sodium Phosphates, 10% aq	E	E	E	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	U	E	U	E	E	
Sodium Silicate, 10% aq	E	E	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Sodium Sulfate, 10% aq	E	E	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	C	G	G	G	G	G	
Sodium Sulfide, 10% aq	E	E	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	C	U	C	U	G	G	
Sodium Thiosulfate, 10% aq	G	E	E	G	E	G	E	G	E	E	E	E	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	U	U	C	G	E	E	
Soy Bean Oil	E	E	G	C	U	E	G	U	E	G	G	E	E	G	U	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Stannic Chloride	G	E	C	G	E	E	E	E	E	E	C	C	E	E	E	E	C	C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Steam <sup>1</sup> (up to 388°F)	U	E	U	U	G	U	U	C	C	U	C	U	U	C	C	U	C	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Stearic Acid	G	E	G	G	G	G	G	G	E	G	G	E	G	G	E	G	G	E	G	E	G	E	G	E	E	E	E	E	E	E	C	E	E	E	E		
Stoddard Solvent	G	E	U	C	U	E	G	U	E	U	U	E	E	E	U	U	E	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Styrene	U	E	U	U	U	U	U	U	U	G	U	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Sulfur, Slurry	C	E	G	E	E	U	E	U	E	E	G	G	E	U	E	E	G	G	E	U	E	E	E	E	E	U	E	E	E	E	E	U	E	E	E	E	
Sulfur Chloride, Wet	U	E	-	U	U	U	U	U	U	E	-	-	G	-	G	G	U	G	-	G	G	U	G	-	G	G	U	G	-	G	G	U	G	-	G	G	U
Sulfur Dioxide, Dry <sup>1</sup>	U	E	U	U	E	U	U	G	E	U	U	E	G	E	U	U	E	G	E	U	U	E	G	E	U	U	E	G	E	U	U	E	G	E	U	U	
Sulfuric Acid, to 10%	U	E	U	U	E	U	U	G	U	E	C	C	U	G	C	-	E	U	G	C	-	E	U	G	C	-	E	U	G	C	-	E	U	G	C	-	E
Sulfuric Acid, over 10%	U	E	U	U	E	U	U	G	U	E	C	C	U	G	C	-	E	U	G	C	-	E	U	G	C	-	E	U	G	C	-	E	U	G	C	-	E
Sulfurous Acid	U	E	U	G	G	C	C	U	G	U	U	U	U	C	C	U	U	U	C	C	U	U	U	C	C	U	U	U	C	C	U	U	U	C	C	U	U
Tannic Acid	G	E	G	G	E	G	E	E	E	E	G	G	E	E	E	E	G	G	E	E	E	E	G	G	E	E	E	E	G	G	E	E	E	E	G	G	
Tar (Bituminous)	G	E	G	G	U	G	U	U	E	G	G	E	E	E	E	G	G	E	E	E	E	G	G	E	E	E	E	G	G	E	E	E	E	G	G		
Tartaric Acid	E	E	G	E	G	E	G	E	G	E	G	G	U	C	E	E	U	C	E	E	U	C	E	E	U	C	E	E	U	C	E	E	U	C	E	E	
Tertiary Butyl Alcohol	G	E	G	E	G	G	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G	E	G	G		
Titanium Tetrachloride	U	E	-	U	U	C	U	U	E	-	-	E	U	G	U	E	U	G	U	E	U	G	U	E	U	G	U	E	U	G	U	E	U	G	U		
Toluene (Toluol)	U	E	U	U	U	U	U	U	E	U	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
Trichlorethylene	U	E	U	U	U	U	U	U	E	U	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
Tricresyl Phosphate	U	E	U	U	E	U	E	U	E	G	U	U	E	-	C	-	G	E	-	C	-	G	E	-	C	-	G	E	-	C	-	G	E	-	C	-	G
Triethanolamine	G	E	U	G	E	E	E	U	E	U	U	U	E	U	E	E	E	E	U	E	E	E	E	U	E	E	E	E	U	E	E	E	E	U	E	E	E
Tung Oil	E	E	C	C	U	G	G	U	E	U	C	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	
Turpentine	E	E	G	G	U	G	U	U	E	G	G	E	G	G	G	G	E	G	G	G	G	E	G	G	G	G	E	G	G	G	G	E	G	G	G	G	
Varnish	C	E	G	G	U	G	U	U	E	G	G	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	
Vinyl Chloride	U	E	U	U	U	U	U	U	E	U	U	E	U	C	E	E	E	U	C	E	E	E	U	C	E	E	E	U	C	E	E	E	U	C	E	E	
Water (to +150°F)	E	E	E	G	E	E	E	E	E	E	E	E	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E
Water (+151°F to +200°F)	C	E	U	C	E	E	E	E	E	E	U	U	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E
Water (+201°F to +350°F)	U	E	U	U	E	U	E	U	G	G	U	U	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E	C	G	E	G	E
Water Glycol	E	E	C	E	E	E	E	E	E	E	C	C	E	E	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	E	G	E	E	E	E	G	E
Water Petroleum Emulsion <sup>2</sup>	E	E	C	C	U	E	G	U	E	C	C	C	E	E	G	E	C	E	E	G	E	C	E	E	G	E	C	E	E	G	E	C	E	E	G	E	
Xylene	U	E	C	U	U	U	U	U	E	U	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
Zinc Chloride, 10% aq	E	E	E	E	E	E	E	E	E	E	E	E	E	U	C	G	E	U	C	G	E	U	C	G	E	U	C	G	E	U	C	G	E	U	C	G	
Zinc Sulfate, 10% aq	E	E	-	E	E	E	E	E	E	E	-	-	U	C	G	C	G	U	C	G	C	G	U	C	G	C	G	U	C	G	C	G	U	C	G	C	G

This chart is intended for reference use only

The information in this chart pertains strictly to material compatibility and is not intended to be used as an application guide. For information on specific applications not included in this catalog, please contact Eaton Aeroquip.

\*Viton is a E.I. DuPont trademark.

Note <sup>1</sup> - Rubber-covered hose must be perforated to allow gas to escape.

Note <sup>2</sup> - Due to the widely different additives in these fluids, testing should be done on the actual fluid being considered.

## Hydraulic fluids & lubricating oils

The following is a representative list of fluids and manufacturers. The fluids are grouped under generic "family" heads and arranged alphabetically. For each generic "family" listing we have included maximum fluid temperature recommendations for the four hose classifications on page 349 (1 through 4). Two maximum fluid temperature ratings are listed under designations of "H" and "LP".

The "H" designation is for hydraulic service up to the maximum rated operating pressure of any particular hose in the classification. The "LP" designation is for low-pressure service such as lubricating oil systems or low-pressure hydraulic return lines.

The letter "U" in the box indicates unsatisfactory resistance to the fluid type.

Fluid temperature ratings are predicated on maximum allowable ambient temperatures as follows:

### Classifications 1 and 3 (Synthetic Rubber and Thermoplastic Elastomer)

"H" fluid temp. ratings: +140°F ambient

"LP" fluid temp. ratings: +180°F ambient

### Classification 2 (PTFE)

"H" fluid temp. ratings: +400°F ambient

"LP" fluid temp ratings: +400°F ambient

### Classification 4 (AQP)

"H" fluid temp. ratings: +160°F ambient

"LP" fluid temp. ratings: +250°F ambient

(If "H" fluid temperature is +225°F or less, allowable ambient temperature may be increased to +200°F)

**Ambient temperatures in excess of those recommended, in conjunction with maximum fluid temperatures, can materially shorten the service life of the hose.**

**CAUTION:** The fluid manufacturer's recommended maximum operating temperature for any specific namebrand fluid should be scrupulously observed by the user. These recommended temperatures can vary widely between name brands of different fluid compositions, even though they fall into the same generic "family" of fluids.

Exceeding the manufacturer's recommended maximum temperature can result in fluid breakdown, producing by-products that are harmful to elastomeric products, as well as other materials in the system. If a manufacturer's recommended maximum temperature for his specific fluid is lower than that for the hose rating, it should take precedence over the hose rating for service usage.

# Fluid Compatibility

## STRAIGHT PETROLEUM-BASE

Maximum fluid temperature recommendation. See CAUTION on page 349 for maximum fluid temperatures and limiting ambient temperatures.

### HOSE CLASSIFICATIONS (SEE P. 349)

	1	2	3	4
H	+200°F	+400°F	+200°F	+300°F
LP	+250°F	+450°F	+200°F	+300°F

### Fluid Name

Aircraft Hydraulic Oil AA  
 Ambrex Oils  
 Arco A.T.F. Dexron  
 Arco A.T.F. Dexron IV  
 Arco A.T.F. Type F  
 Arco Fleet Motor  
 Arco H.T.F. C-2 Fluid  
 Arco H.T.C. 100 Fluid  
 Arco 303 Fluid  
 ATF Special  
 Automatic Transmission Fluid (Dexron)  
 Carnea Oils  
 Citgo Amplex  
 Citgo ATF, Type F  
 Citgo ATF, Dexron  
 Citgo Extra Duty Circulating Oils Mineral Oil (Heavy Duty) (R & O)  
 Citgo Motor Oils  
 Citgo Pacemaker Series Mineral Oil (R & O)  
 Citgo Pacemaker T Series Mineral Oil (R & O)  
 Citgo Pacemaker XD Series Mineral Oil (Heavy Duty) (R & O)  
 Citgo Sentry  
 Citgo Tractor Hydraulic Fluid  
 Conoco 303 Fluid  
 Custom Motor Oil  
 Dectol R & O Oils  
 Delo 400 Motor Oils  
 Delvac Oils  
 Delvac SHC  
 Delvac Special 10W-30

Donax T Oils  
 DTE Oils  
 Duro  
 Duro AW  
 EP Hydraulic Oils  
 EP Industrial Oils  
 EP Machine Oils  
 Energol HL68  
 Energol HLP C68  
 Etna Oils  
 Exxon ATF

Factovis 52 – Conventional R & O Hydraulic Fluid

Gulf Harmony AW  
 Gulf Security AW  
 Glide

Hulburt 27 Series  
 Hydraulic Series  
 Hydraulic Oils  
 Hydroil Series

Industron 53 – Anti Wear Hydraulic Fluid

Lubrite Motor 20W-40

Mobil AFT 210  
 Mobil AFT 220  
 Mobilfluid 62  
 Mobilfluid 423  
 Mobil Hydraulic Oils  
 Mobiloil Special  
 Mobiloil Super 10W-40

NUTO Oils

OC Turbine Oils

Peaco Oils  
 Pennbell Oils  
 Power-Tran Fluid

Quadroil Series

Rando Oils  
 Rando Oils HD  
 Redind Oils  
 Regal Oils R & O  
 Rimula Oils  
 Rotella Oils  
 Rotella T Oils  
 RPM Delo 200 Motor Oils  
 RPM Delo 300 Motor Oils  
 RPM Delo Special Motor Oils  
 Rubilene

Shell Brand  
 Special Motor Oils  
 Sun R & O Oils  
 Suntac HP Oils  
 Suntac WR Oils  
 Sunvis 700 Oils  
 Sunvis 800 Oils  
 Sunvis 900 Oils  
 Super Hydraulic Oils  
 Supreme Motor Oils

Tellus Oils  
 Teresstic Oils  
 Torque Fluids  
 Torque Fluid 47  
 Torque Fluid 56  
 Tractor Hydraulic Fluid

Union ATF Dexron  
 Union ATF Type F  
 Union C-2 Fluid  
 Union C-P Oil  
 Union Custom Motor Oil  
 Union Gas Engine Oil  
 Union Guardol Motor Oil  
 Union Heavy Duty Motor Oil  
 Union Hydraulic Oil AW  
 Union Hydraulic Tractor Fluid  
 Union Premium Motor Oil  
 Union S-1 Motor Oil  
 Union Special Motor Oil  
 Union Super Motor Oil

Union Torque Correction Fluid  
 Union Turbine Oil  
 Union Turbine Oil XD  
 Union Unax  
 Union Unax AW  
 Union Unax R & O  
 Union Unax RX  
 Union Unitec Motor Oil  
 Univis J13  
 Univis J26  
 Univis P32  
 Vactra Oils  
 Vitrea Oils  
 Way Lubricants  
 XD-3 Motor Oils

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# Fluid Compatibility

## WATER AND PETROLEUM OIL EMULSION (FR)

Maximum fluid temperature recommendation. See CAUTION on page 349 for maximum fluid temperatures and limiting ambient temperatures.

### HOSE CLASSIFICATIONS (SEE P. 349)

	1	2	3	4
H	+200°F	+250°F	+150°F	+200°F
LP	+200°F	+250°F	+150°F	+200°F

### Fluid Name

Fluid Name  
 Aqualube  
 Astrol #587  
  
 Chevron FR Fluid D  
 Chrysler L-705  
 Citgo Pacemaker Invert FR Fluid  
 Conoco FR Hydraulic Fluid  
  
 Dasco IFR  
 Duro FR-HD  
  
 Fire Resistant Hydrafluid  
 Fire Resistant Hydraulic Fluid B  
 FR 3110 Hydraulic Fluid (invert)  
 Fyre-Safe W/O  
  
 Gulf R & D FR Fluid  
  
 Houghto-Safe 5046  
 Houghto-Safe 5046W  
 Hulsafe 500  
 Hy-Chock Oil  
 Hydrasol A  
  
 Ironsides #814-A  
 Irus Fluid 905  
  
 Kutwell 40  
  
 Masol Fire Resistant Fluid

Meltran FR 900  
 Mine Guard  
 Mobilmet S122  
  
 Penn Drake Hydraqua Fluid  
 Permamul FR  
 Puro FR Fluid  
 Pyrogard C  
 Pyrogard D  
  
 Quintolubric 957 Series  
 Quintolubric 958 Series  
  
 Regent Hydrolube #670  
  
 SAFOIL Hydraulic Fluid Anti-Wear  
 Sinclair Duro FR-HD  
 Solvac 1535G  
 Staysol FR  
 Sunsafef F  
  
 Union FR Fluid  
 Union Soluble Oil HD  
  
 Veedol Auburn FRH  
 Veedol Auburn FRH Concentrate

## WATER AND GLYCOL SOLUTION

Maximum fluid temperature recommendation. See CAUTION on page 349 for maximum fluid temperatures and limiting ambient temperatures.

### HOSE CLASSIFICATIONS (SEE P. 349)

	1	2	3	4
H	+200°F	+250°F	+150°F	C
LP	+200°F	+250°F	+150°F	C

### Fluid Name

Chem-Trend HF-18  
 Chem-Trend HF-20  
 Chevron Glycol FR Fluids  
 Citgo Glycol FR Fluids  
 Citgo Glycol FR-20 XD  
 Citgo Pacemaker  
  
 Dasco FR 150  
 Dasco FR 200  
 Dasco FR 200 B  
 Dasco FR 310  
  
 Fyrguard 150  
 Fyrguard 200  
 Fyre-Safe 225  
  
 Gulf FR Fluid G-200  
 Gulf FR Fluid – G Series  
  
 Houghto-Safe 271  
 Houghto-Safe 416  
 Houghto-Safe 520  
 Houghto-Safe 525  
 Houghto-Safe 616  
 Houghto-Safe 620  
 Houghto-Safe 625  
 Houghto-Safe 640  
 Hydra Safe 620  
 Hydra Safe 625  
 Hydraulic Safety Fluid 200  
 Hydraulic Safety Fluid 300  
 Hyspin AF-1

Hyspin AF-2  
 Hyspin AF-3  
  
 Maxmul  
 Maxmul FR  
 Melsyn 200  
 Melsyn Glycol FR  
  
 Nyvac FR Fluid  
 Nyvac FR 200 Fluid  
 Nyvac 20 (WG)  
 Nyvac 30 (WG)  
  
 Park Water Glycol Hydraulic Fluid  
 Pennzoil Fluid FR 2X  
  
 Quintolubric 700 Series  
  
 Santosafe W/G 15  
 Santosafe W/G 20  
 Santosafe W/G 30  
 Standard Glycol FR #15  
 Standard Glycol FR #20  
 Standard Glycol FR #25  
  
 Ucon Hydrolube 150 CP  
 Ucon Hydrolube 200 CP  
 Ucon Hydrolube 275 CP  
 Ucon Hydrolube 300 CP  
 Ucon Hydrolube 550 CP  
 Ucon Hydrolube 900 CP  
 Ucon Hydrolube 150 DB  
 Ucon Hydrolube 275 DB  
 Ucon Hydrolube 150 LT  
 Ucon Hydrolube 200 LT  
  
 Ucon Hydrolube 275 LT  
 Ucon Hydrolube 300 LT  
 Ucon M-1  
 Ucon Hydrolube 200 NM  
 Ucon Hydrolube 300 NM

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## STRAIGHT PHOSPHATE-ESTER (FR)

Maximum fluid temperature recommendation. See CAUTION on page 349 for maximum fluid temperatures and limiting ambient temperatures.

HOSE CLASSIFICATIONS (SEE P. 349)					
1	2	3	4	5	6
H	U	+400°F	+200°F	U	200
LP	U	+400°F	+200°F	U	200

### Fluid Name

FR Fluids  
Fyrquel 90  
Fyrquel 150  
Fyrquel 220  
Fyrquel 300  
Fyrquel 550  
Fyrquel 1000  
Fyrquel 150 R & O  
Fyrquel 220 R & O  
Fyrquel 550 R & O

Gulf FR Fluid P-37  
Gulf FR Fluid P-40  
Gulf FR Fluid P-43  
Gulf FR Fluid P-45  
Gulf FR Fluid P-47

Houghto-Safe 1010  
Houghto-Safe 1055  
Houghto-Safe 1115  
Houghto-Safe 1120  
Houghto-Safe 1130

Pyrogard 51  
Pyrogard 53  
Pyrogard 55

Safetytex 215

Skydraul 500A  
Skydraul 7000

Univis P12

## ESTER BLEND TURBINE OILS

Maximum fluid temperature recommendation. See CAUTION on page 349 for maximum fluid temperatures and limiting ambient temperatures.

HOSE CLASSIFICATIONS (SEE P. 349)			
1	2	3	4
H	-	-	-
LP	+250°F	+450°F	+200°F +300°F

### Fluid Name

Stauffer Jet I  
Stauffer Jet II

## SILICONE OILS

Maximum fluid temperature recommendation. See CAUTION on page 349 for maximum fluid temperatures and limiting ambient temperatures.

HOSE CLASSIFICATIONS (SEE P. 349)			
1	2	3	4
H	+200°F	+400°F	+200°F +300°F
LP	+250°F	+450°F	+200°F +300°F

### Fluid Name

Dow Corning 200 Fluid (100CS)  
Dow Corning QF1-2023  
Dow Corning 4-3600  
Dow Corning 3-3672

## POLYOL-ESTER

Maximum fluid temperature recommendation. See CAUTION on page 349 for maximum fluid temperatures and limiting ambient temperatures.

HOSE CLASSIFICATIONS (SEE P. 349)			
1	2	3	4
H	+150°F	+400°F	- +150°F
LP	+200°F	+400°F	- +250°F

### Fluid Name

Quintolubric 822 Series

## LUBRICANT COMPATIBILITY CHART

Lubricant	Hose Style						
	FC802	FC800	FC555	FC558	GH134	FC665	FC765
Mineral Oil	Y	Y	Y	N	N	Y	Y
PAG	Y	Y	Y	Y	Y	Y	Y
Ester Oil	Y	Y	Y	Y	Y	Y	Y
Alkylbenzene	Y	Y	Y	N	N	Y	Y

Y = Compatible  
N = Non-compatible

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