

**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 below.
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 Eaton Aeroquip Inc., Industrial Division, Maumee, Ohio, 419-867-2600.

**RESISTANCE RATING KEY**

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.

**HOSE TUBE IDENTIFICATION CHART**

1 Synthetic Rubber		
302A (p. 44)	2781 (p. 28)	FC639 (p. 31)
303 (p. 44)	FC136 (p. 33)	FC647 (p. 40)
1503 (p. 43)	FC211 (p. 24)	FC659 (p. 34)
1529 (p. 30)	FC212 (p. 29)	FC735 (p. 32)
2555 (p. 49)	FC254 (p. 34)	FC736 (p. 32)
2556 (p. 41)	FC273 (p. 35)	GH120 (p. 31)
2565 (p. 41)	FC310 (p. 26)	GH466 (p. 38)
2575 (p. 41)	FC318 (p. 20)	GH493 (p. 33)
2580 (p. 21)	FC414 (p. 48)	GH506 (p. 37)
2583 (p. 22)	FC466 (p. 20)	GH663 (p. 24)
2651 (p. 44)	FC579 (p. 53)	GH681 (p. 25)
2681 (p. 23)	FC606 (p. 37)	GH683 (p. 25)
2766 (p. 30)	FC616 (p. 53)	GH781 (p. 28)
	FC619 (p. 19)	GH793 (p. 29)

  

2 PTFE		
2807 (p. 65)	FC363 (p. 63)	FC469 (p. 67)
2808 (p. 67)	FC364 (p. 64)	FC563 (p. 64)
FC186 (p. 65)	FC465 (p. 66)	FC645 (p. 66)

  

3 Thermoplastic Elastomer		
FC372 (p. 57)	FC375 (p. 58)	FC690 (p. 60)
FC373 (p. 57)	FC376 (p. 59)	
FC374 (p. 58)	FC377 (p. 59)	

**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.

4 AQP		5 Special Application Hose (Not Included in Fluid Chart)	
2661 (p. 19)		FC234 Fuel (pp. 45-46)	
FC194 (p. 22)		FC650	
FC195 (p. 27)		CR170	
FC300 (p. 43)		FC321 LPG (p. 47)	
FC323 (p. 35)		1531 Railroad Air Brake	
FC324 (p. 36)		1531A (p. 49)	
FC325 (p. 36)		Recoil Air Hose (p. 42)	
FC332 (p. 40)		1540 FC665 Refrigeration/	
FC350 (p. 46)		FC505 FC765 Air Conditioning	
FC355 (p. 45)		FC555 GH134 (pp. 54-56)	
FC498 (p. 21)		FC558 FC802	
FC510 (p. 26)		FC701 Sewer Cleaning (pp. 62-63)	
FC699 (p. 47)		FC702	
GH194 (p. 23)		FC252 Silicone (pp. 51-52)	
GH195 (p. 27)		FC352	
		2550	
		2554 Truck Air Brake (p. 50)	
		2570	
		FC350	

6 EPDM Rubber		
FC611 (p. 38)	FC636 (p. 39)	FC693 (p. 39)

**SEAL ELASTOMER DATA**

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

<sup>†</sup>Buna-N temperature range -65°F to +225°F. Also per MIL-R-6855.  
<sup>\*</sup>Viton is a DuPont trademark.

FLUID	HOSE						SEALS				METAL						
	1 Synthetic Rubber	2 PTFE	3 Thermoplastic Elastomer	4 AQP	5 Special Application Hose	6 EPDM	Buna-N	Neoprene	EPR	Viton*	Urethane	Hytrek	Steel	Brass	Stainless Steel	Aluminum	Monel
Acetaldehyde	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetic Acid, 10%	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetic Acid, Glacial	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetophenone	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetyl Acetone	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetyl Chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acetylene	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Air, Hot (Up to +160°F)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Air, Hot (161°F – 200°F)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Air, Hot (201°F – 300°F)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Air Wet	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aluminum Chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aluminum Fluoride	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aluminum Nitrate	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aluminum Sulfate	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Alums	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonia, Cold	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonia, Hot	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonia, Anhydrous	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonia, Aqueous	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonium Carbonate	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonium Chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonium Hydroxide	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonium Nitrate	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonium Phosphate	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ammonium Sulfate/Sulfide	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Amyl Acetate	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

<sup>\*</sup>Viton is a DuPont trademark.  
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E = EXCELLENT  
G = GOOD  
C = CONDITIONAL  
U = UNSATISFACTORY

FLUID	HOSE						SEALS						METAL					
	1	2	3	4	5	6	Buna-N	Neoprene	EPR	Viton*	Urethane	Hytrel	Steel	Brass	Stainless Steel	Aluminum	Monel	
Palmitic Acid	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Para-Dichlorobenzene	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Pentane	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Perchloric Acid	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Perchloroethylene	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Phenol (Carbolic Acid)	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Phos. Ester/Petroleum Blend	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Phosphoric Acid	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Phosphorous Trichloride	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Potassium Acetate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Potassium Chloride	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Potassium Cyanide	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Potassium Dichromate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Potassium Hydroxide, to 10%	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Potassium Hydroxide, over 10%	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Potassium Nitrate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Potassium Sulfate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Propane	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Propyl Acetate	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Propyl Alcohol	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Propylene	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Refrigerant R-12	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Refrigerant R-13	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Refrigerant R-22	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Refrigerant R-134a	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sewage	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Silicone Oils	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Soap (Water Solutions)	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Acetate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Bicarbonate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Borate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Carbonate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Chloride	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Cyanide	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Hydroxide, to 10%	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sodium Hydroxide, over 10%	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sodium Hypochlorite	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sodium Metaphosphate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Nitrate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Perborate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Peroxide	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	

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FLUID	HOSE						SEALS						METAL					
	1	2	3	4	5	6	Buna-N	Neoprene	EPR	Viton*	Urethane	Hytrel	Steel	Brass	Stainless Steel	Aluminum	Monel	
Sodium Phosphates	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Silicate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Sulfate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Sulfide	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Sodium Thiosulfate	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Soy Bean Oil	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Stannic Chloride	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Steam (up to 388°F)	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Stearic Acid	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Stoddard Solvent	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Straight Petroleum Base	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Straight Phosphate Ester	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Styrene	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sulfur	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sulfur Chloride	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sulfur Dioxide	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sulfur Trioxide	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sulfuric Acid, to 10%	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sulfuric Acid, over 10%	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sulfurous Acid	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Tannic Acid	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Tar (Bituminous)	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Tartaric Acid	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Tertiary Butyl Alcohol	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Titanium Tetrachloride	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Toluene (Toluol)	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Trichloroethylene	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Tricresyl Phosphate	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Triethanolamine	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Tung Oil	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Turpentine	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Varnish	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Vinyl Chloride	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Water (to +150°F)	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Water (+151°F to +200°F)	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Water (+201°F to +350°F)	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Water Glycol	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Water Petroleum Emulsion	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Xylene	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Zinc Chloride	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Zinc Sulfate	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	

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**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 400 (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 name-brand 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.*

**STRAIGHT PETROLEUM-BASE**

**Maximum fluid temperature recommendation\*\***

Hose classifications (see page 400)				
	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. 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
- Teresttic 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

**WATER AND PETROLEUM OIL EMULSION (FR)**

**Maximum fluid temperature recommendation\*\***

Hose classifications (see page 400)				
	1	2	3	4
H	+200°F	+250°F	+150°F	+200°F
LP	+200°F	+250°F	+150°F	+200°F

**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
- Hydrosol 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
- Sunsafe F
  
- Union FR Fluid
- Union Soluble Oil HD
  
- Veedol Auburn FRH
- Veedol Auburn FRH Concentrate

\*\*See CAUTION on page 402 for maximum fluid temperatures and limiting ambient temperatures.

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**WATER AND GLYCOL SOLUTION**

**Maximum fluid temperature recommendation\*\***

Hose classifications (see page 400)				
	1	2	3	4
H	+200°F	+250°F	+150°F	+200°F
LP	+200°F	+250°F	+150°F	+200°F

**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

Fyrtek 290  
Fyrtek MF  
Pydraul 230-C  
Pydraul 312-C  
Pydraul 540-C

Stauffer SCC 7204

**STRAIGHT PHOSPHATE-ESTER (FR)**

**Maximum fluid temperature recommendation\*\***

Hose classifications (see page 400)				
	1	2	3	4
H	U	+400°F	+200°F	+180°F
LP	U	+400°F	+200°F	+200°F

**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

Pydraul 10E  
Pydraul 29-E-LT  
Pydraul 30-E  
Pydraul 50-E  
Pydraul 65-E  
Pydraul 115-E

Pyrogard 51  
Pyrogard 53  
Pyrogard 55

Safetytex 215

Univis P12

**PHOSPHATE-ESTER AND PETROLEUM-OIL**

**Maximum fluid temperature recommendation\*\***

Hose classifications (see page 400)				
	1	2	3	4
H	U	+400°F	+200°F	+180°F
LP	U	+400°F	+200°F	+200°F

**Fluid Name**

Citgo Synthetic Oil-Fire Resistant

**ESTER BLEND TURBINE OILS**

**Maximum fluid temperature recommendation\*\***

Hose classifications (see page 400)				
	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\*\***

Hose classifications (see page 400)				
	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\*\***

Hose classifications (see page 400)				
	1	2	3	4
H	+200°F	+400°F	-	+225°F
LP	+200°F	+400°F	-	+250°F

**Fluid Name**

Quintolubric 822 Series

\*\*See CAUTION on page 402 for maximum fluid temperatures and limiting ambient temperatures.

**Lubricant Compatibility Chart**

Lubricant	Hose Style						
	FC802	FC505	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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