

PHOSPHATE-ESTER 304, 774, 424, F42



If getting aircraft into the air is your job, Parker's family of phosphate-ester compatible hoses is the choice for you. Our hose selection offers the industry's largest selection of low-, medium- and high-pressure hoses specifically designed to resist aggressive airline hydraulic fluids. Parker's phosphate-ester hose line, together with the proper EPDM O-ring face seal and 37° Flare fittings and pipe adapters, means your leak-free assemblies will be the last thing you'll need to worry about.



424 hose

- Up to 1000 psi
- Dimensionally conforms to SAE 100R1 Type AT specification
- Uses Parkrimp 43 Series fittings, providing the widest selection of end configurations available anywhere

304 hose

- Up to 5000 psi
- Dimensionally conforms to SAE 100R2 Type AT specification
- Uses Parkrimp 43 Series fittings, providing the widest selection of end configurations available anywhere

774 hose

- Up to 4000 psi
- Dimensionally conforms to SAE 100R12 and EN 856 Type R12 specifications
- Uses Parkrimp 71 Series fittings

F42 hose

- 6000 psi maximum working pressure
- Compatible with phosphate ester based hydraulic fluids with a temperature range of -40°C to +80°C (-40°F to +176°F)
- Uses Parkrimp 70 / 79 Series fittings

424 Hydraulic – Phosphate-Ester Base Fluids



Application: Phosphate-ester base hydraulic fluids.
Inner Tube: EPDM rubber.
Reinforcement: One braid steel wire.
Cover: EPDM rubber, green.
Temperature Range: -40°F to +176°F (-40°C to +80°C).
Fittings: 43 Series - pg. B-27.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	
424-16	1	25	1.40	36	1000	6,9	12	300	0.63	0,94	20	68	●
424-20	1-1/4	31,5	1.73	44	625	4,3	16-1/2	420	0.80	1,19	20	68	●
424-24	1-1/2	38	2.00	51	500	3,5	20	500	1.00	1,49	15	51	●
424-32	2	51	2.50	64	375	2,6	25	630	1.50	2,23	11	37	●

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

304 Hydraulic – Phosphate-Ester Base Fluids



Application: Phosphate-ester base hydraulic fluids.
Inner Tube: EPDM rubber.
Reinforcement: Two braids steel wire.
Cover: EPDM rubber, green.
Temperature Range: -40°F to +176°F (-40°C to +80°C).
Fittings: 43 Series - pg. B-27.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
304-4	1/4	6,3	0.59	15	5000	34,5	4	100	0.26	0,39	●
304-6	3/8	10	0.75	19	4000	27,5	5	130	0.37	0,55	●
304-8	1/2	12,5	0.88	22	3500	24	7	180	0.45	0,67	●
304-10	5/8	16	0.61	16	2750	19	8	200	0.53	0,79	●
304-12	3/4	19	1.16	29	2250	15,5	9-1/2	240	0.67	1,00	●
304-16	1	25	1.50	38	2000	13,8	12	300	1.00	1,49	●
304-20	1-1/4	31,5	1.86	47	1625	11,2	16-1/2	420	1.16	1,73	●
304-24	1-1/2	38	2.14	54	1250	8,6	20	500	1.44	2,14	●
304-32	2	51	2.64	67	1125	7,8	25	630	1.99	2,96	●

774 Hydraulic – Phosphate-Ester Base Fluids



Application: Phosphate-ester base hydraulic fluids.
Inner Tube: EPDM rubber.
Reinforcement: Four spiral steel wire.
Cover: EPDM rubber, green.
Temperature Range: -40°F to +176°F (-40°C to +80°C).
Fittings: 71 Series - pg. B-71.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 71 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
774-12	3/4	19	1.21	31	4000	28,0	9-1/2	240	0.94	1,40	●
774-16	1	25	1.50	38	4000	28,0	12	300	1.34	1,99	●
774-20	1-1/4	31,5	1.84	46	3000	21,0	16-1/2	420	1.74	2,59	●
774-24	1-1/2	38	2.07	53	2500	17,5	20	500	2.01	2,99	●
774-32	2	51	2.59	66	2500	17,5	25	630	2.75	4,09	●

F42 Hydraulic – Phosphate-Ester Base Fluids



Application: Phosphate-ester base hydraulic fluids.
Inner Tube: EPDM rubber.
Reinforcement: Four or six-spiral steel wire.
Cover: EPDM rubber, green.
Temperature Range: -40°F to +176°F (-40°C to +80°C).
Fittings: 70 Series - pg. B-61.
 79 Series - pg. B-121.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 70 Series	Parkrimp 79 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	●	●
F42-8	1/2	12,5	0.97	25,0	6000	42,0	8.0	200	0.56	0,83	●	
F42-12	3/4	19	1.26	31,9	6000	42,0	10.5	265	1.03	1,53		●
F42-16	1	25	1.52	38,5	6000	42,0	13.0	330	1.40	2,08		●
F42-20	1-1/4	31,5	1.97	50	6000	42,0	17.5	445	2.66	3,96		●

• See Section C for Parkrimp Assembly Instructions.
 • Temperature Range of other media listed in Section E.