



Application	Typical Hoses
▪ Labs	FX, FM, FJ, FL, T, B, X, C, 7R, 8R, PB
▪ University Research	FX, FM, FJ, FL, T, B, X, C, 7R, 8R, PB

Materials of Construction

Fluoropolymer Hose			
Series	Core	Reinforcement	Cover
T	Smooth-Bore PTFE*	304 SS Braid Standard; 316L SS and Alloy 400 Braid Available	—
B	Smooth-Bore PTFE	304 SS Braid	—
X	Smooth-Bore PTFE*	Fiber Braid with 304 SS Braid	—
C	Convuluted PTFE*	300 Series SS Braid	No Cover Standard; Silicone Cover Available

Rubber Hose			
PB	Smooth-Bore Buna N	Synthetic Fiber Braid	Blue Buna N (Other Colors Available)

Metal Hose			
FX	Convuluted 316L SS	321 SS Braid Standard; 316L Braid Available	—
FM	Convuluted 316L SS	316L SS Braid	—
FJ	Convuluted 316L SS	304 SS Braid Standard; 316L SS Braid Available	—
FL	Convuluted 316L SS	321 SS Braid	—

Nylon Hose			
7R	Smooth-Bore Nylon	Fiber Braid	Perforated Black Polyurethane
8R	Smooth-Bore Nylon	Fiber Braid	Perforated Black Polyurethane

RESEARCH & DEVELOPMENT *(continued)*



Series	Nominal Hose Size, in.										Temperature Range °F (°C)
			Working Pressure at 70°F (20°C), psig (bar)								
	1/8	3/16	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	

Fluoropolymer Hose											
T	—	—	3000* (206)	2500 (172)	2000 (137)	1500 (103)	1000 (68.9)	—	—	—	-65 to 450** (-53 to 230)
B	3000 (206)	—	—	—	—	—	—	—	—	—	
X	—	—	3500 (241)	3000 (206)	1800 (124)	1250 (86.1)	1000 (68.9)	—	—	—	
C	—	—	—	—	1500 (103)	1100 (75.7)	750 (51.6)	—	700 (48.2)	525 (36.1)	

Rubber Hose											
PB	—	—	350 (24.1)	300 (20.6)	300 (20.6)	300 (20.6)	300 (20.6)	—	—	—	-40 to 200*** (-40 to 93)

Metal Hose											
FX	—	—	6000 (413)	5000 (344)	4500 (310)	3600 (248)	3000 (206)	2600 (178)	2200 (151)	1675 (115)	-325 to 1000 (-200 to 537)
FM	—	—	3100 (213)	2000 (137)	1800 (124)	1500 (103)	1200 (82.6)	950 (65.4)	900 (62.0)	500 (34.4)	-325 to 850 (-200 to 454)
FJ	—	—	1600 (110)	1470 (101)	1110 (76.4)	860 (59.2)	680 (46.8)	680 (46.8)	520 (35.8)	450 (31.0)	-325 to 800 (-200 to 426)
FL	—	—	1500 (103)	—	1200 (82.6)	—	—	—	—	—	-325 to 850 (-200 to 454)

Nylon Hose											
7R	—	—	2750 (189)	2250 (155)	2000 (137)	—	—	—	—	—	-40 to 200 (-40 to 93)
8R	—	—	5000 (344)	4000 (275)	3500 (241)	2250 (155)	2000 (137)	—	—	—	-40 to 200 (-40 to 93)

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* T series hose with alloy 400 braid is rated to 1500 psig (103 bar).

** C series hose is rated from -20 to 340°F (-28 to 171°C) in the 1 1/2 and 2 in. nominal hose sizes.

*** PB series hose is rated from -20 to 200°F (-28 to 93°C) in the 1 in. nominal hose size.