

# Swagelok Hose and Flexible Tubing Selection Guide\*

See individual hose series sections for additional technical information.

Series	Nominal Hose Size, in.										Temperature Range °F (°C) <sup>④</sup>
	Working Pressure at 70°F (20°C), psig (bar) <sup>④</sup>										
	1/8	3/16	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
<b>Metal Hose</b>											
FX	—	—	6000 (413)	5000 (344)	4500 (310)	3600 (248)	3000 (206)	2600 (179)	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)	1470 (101)	1200 (82.6)	860 (59.2)	680 (46.8)	645 (44.4)	520 (35.8)	380 (26.1)	-325 to 850 (-200 to 454)
AH	—	—	—	—	1110 (76.4)	860 (59.2)	680 (46.8)	—	520 (35.8)	450 (31.0)	-325 to 800 (-200 to 426)
<b>Metal Flexible Tubing</b>											
Convolved Tube	—	—	100 (6.8)	25 (1.7)	25 (1.7)	25 (1.7)	25 (1.7)	—	25 (1.7)	—	70 to 1000 (20 to 537)
<b>Fluoropolymer Hose</b>											
T	—	—	3000 <sup>①</sup> (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)	—	—	—	
S	3000 (206)	—	3500 (241)	3000 (206)	1800 (124)	1250 (86.1)	1000 (68.9)	—	—	—	-65 to 400 (-53 to 204)
C	—	—	—	—	1500 (103)	1100 (75.7)	750 (51.6)	—	700 (48.2)	525 (36.1)	-65 to 450 <sup>②</sup> (-53 to 230)
N	—	—	—	1250 (86.1)	750 (51.6)	375 (25.8)	—	—	—	—	
W	—	—	—	750 (51.6)	750 (51.6)	500 (34.4)	—	—	—	—	-65 to 400 (-53 to 204)
F	—	—	800 (55.1)	650 (44.7)	450 (31.0)	325 (22.3)	—	—	—	—	-65 to 450 (-53 to 230)
U	—	—	—	—	300 (20.6)	300 (20.6)	250 (17.2)	—	200 (13.7)	150 (10.3)	-65 to 400 (-53 to 204)
<b>PFA Tubing</b>											
PFA	275 (18.9)	—	275 (18.9)	180 (12.4)	125 (8.6)	83 (5.7)	61 (4.2)	—	—	—	70 to 400 (20 to 204)
<b>Vinyl Tubing</b>											
LT	40 (2.7)	30 (2.0)	25 (1.7)	15 (1.0)	10 (0.68)	—	—	—	—	—	-40 to 165 (-40 to 73)
<b>Nylon Hose</b>											
NG	—	—	5000 (344)	5000 (344)	5000 (344)	—	—	—	—	—	-40 to 150 (-40 to 65)
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)
7N	—	—	2750 (189)	2250 (155)	2000 (137)	—	—	—	—	—	-40 to 200 (-40 to 93)
8N	—	—	—	—	—	2250 (155)	—	—	—	—	-40 to 200 (-40 to 93)
<b>Polyethylene Hose</b>											
7P	—	—	2750 (189)	2250 (155)	2000 (137)	1500 (103)	1500 (103)	—	—	—	-10 to 150 (-23 to 65)
<b>Rubber Hose</b>											
PB	—	—	350 (24.1)	300 (20.6)	300 (20.6)	300 (20.6)	300 (20.6)	—	—	—	-40 to 200 <sup>③</sup> (-40 to 93)

① T series hose with alloy 400 braid is rated to 1500 psig (103 bar).

② 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.

C series hose is rated from -65 to 400°F (-53 to 204°C) for hose with a silicone cover.

③ PB series hose is rated from -20 to 200°F (-28 to 93°C) in the 1 in. nominal hose size.

④ Pressure-temperature ratings may be limited by the end connections.

— Indicates that the series of hose is not currently available in that size