

Technical Data

Welding Hose

Effect of Hose Diameter and Length on Flow and Pressure at Torch

Hose Diameter	Hose Length (Feet/Meter)	Cutting Tip Size	Reg. PSIG Static	Reg. PSIG Flowing	Inlet PSIG Torch	PSIG Drop In Hose	Flow SCFH
3/16" (5mm)	50 (15.2m)	3	50	47	37-1/2	9-1/2	169
3/16" (5mm)	100* (30.4m)	3	51	47	26	21	129
3/16" (5mm)	50 (15.2m)	5	84-1/2	78	44	34	370
3/16" (5mm)	100* (30.4m)	5	83-1/2	78	22	56	215
3/16" (5mm)	50 (15.2m)	7	108	100	24	76	510
3/16" (5mm)	100* (30.4m)	7	106-1/2	100	9	91	270
3/16" (5mm)	50 (15.2m)	9	138-1/2	130	19-1/2	110-1/2	735
3/16" (5mm)	100* (30.4m)	9	136-1/2	130	7	123	405
1/4" (6mm)	50 (15.2m)	3	50-1/2	47	44-1/2	2-1/2	194
1/4" (6mm)	100* (30.4m)	3	50	47	42-1/2	4-1/2	188
1/4" (6mm)	50 (15.2m)	5	86	78	68-1/2	9-1/2	540
1/4" (6mm)	100* (30.4m)	5	85	78	58-1/2	19-1/2	470
1/4" (6mm)	50 (15.2m)	7	114	100	68	32	1140
1/4" (6mm)	100* (30.4m)	7	110	100	49	51	870
1/4" (6mm)	50 (15.2m)	9	149-1/2	130	65	65	2010
1/4" (6mm)	100* (30.4m)	9	144	130	36-1/2	93-1/2	1290
1/4" (6mm)	100** (30.4m)	3	50	47	36	11	164
1/4" (6mm)	100** (30.4m)	5	84-1/2	78	42	36	360
1/4" (6mm)	100** (30.4m)	7	108	100	25	75	560
1/4" (6mm)	100** (30.4m)	9	140	130	18	112	795
3/8" (10mm)	50 (15.2m)	3	51	47	46	1	190
3/8" (10mm)	50 (15.2m)	5	86	78	74-1/2	3-1/2	580
3/8" (10mm)	50 (15.2m)	7	117	100	86	14	1400
3/8" (10mm)	50 (15.2m)	9	163-1/2	130	89-1/2	40-1/2	2700
3/8" (10mm)	100* (30.4m)	3	51	47	46	1	198
3/8" (10mm)	100* (30.4m)	5	86	78	72	6	570
3/8" (10mm)	100* (30.4m)	7	115	100	77	23	1280
3/8" (10mm)	100* (30.4m)	9	155	130	75	55	2280

* Two 50 ft. (15.2m) lengths of hose connected together with standard hose unions

** Four 25 ft. (6.1m) lengths of hose connected together with standard hose unions

Warning: Do not exceed the maximum rated working pressure for any hose.

Oxygen150 PSIG Maximum

Acetylene15 PSIG Maximum

Propane, Propylene, Liquid Air, MPS and all other Fuel Gases40 PSIG Maximum

In-Service Caution: The user is first cautioned to shut off the gases at the torch and then at the regulators or supply source when the torch will not be used for periods in excess of 30 minutes, in order to limit permeation of gas through the hose wall.