



M-100 PRESSURE HOSE



DESCRIPTION

Penflex M-100 pressure hose is a high quality, heavy duty, fully interlocked metal hose designed to withstand the abuses of many industrial applications. The inclusion of a quality packing into a specially formed groove during manufacturing serves as a continuous gasket to make the hose pressure tight. Such media as air and non-searching fluids can be conveyed by M-100 hose at moderate pressures and temperatures. For technical data refer to the appropriate specification tables.

END FITTINGS

The high temperatures encountered in welding pipe and flanges to M-100 hose destroys the packing within the convolutions adjacent to the weld area. Penflex "Titepak" and "Packed & Welded" fittings were developed to seal this damaged section by providing a box and gland arrangement for the application of corrective packing after the fitting has been welded onto the hose. These fittings are available as rigid or floating flanges and as beveled, and NPT threaded pipe ends.

SPECIFICATIONS

M-100 pressure hose is produced in type 304 stainless steel. sizes range from DN20 through DN700. In addition to the column headings defined in the "Guide To Interlocked Hose Specification Tables," the following terms are included in the specifications tables for M-100 pressure hose.

Nominal Burst Pressure is the PSIG pressure at which the hose can be expected to rupture. This rating is predicated upon the hose being installed straight and motionless, and subjected to internal hydrostatic pressure at 21°C.

Maximum Working Pressure is the PSIG pressure at 21°C to which the hose should be subjected while operating under moderate bending, motion and flow conditions. This rating represents the application of a 3 to 1 safety factor against the nominal burst pressure. If more severe operating conditions are anticipated, the use of a 4 to 1 or a 5 to 1 safety factor is recommended.

Elevated operating temperatures require the application of a temperature adjustment factor to the maximum working pressure at 21°C. Refer to the "Temperature Adjustment Factor Table" in the "Technical Information" section of the main products catalog posted on our website: <http://www.penflex.com/penflexcatalog>.

APPLICATIONS

M-100 pressure hose is an ideally suited hose for metal expansion joints, boiler relief valve sealing, pulverized coal cyclone feeders, boiler draft systems and BOF lance hose assemblies. Additionally, M-100 pressure hose can be used in applications involving diesel exhaust, tank car unloading, barge unloading, fuel oil transfer, oven exhaust, suction lines and air intake lines.



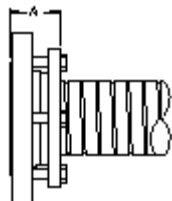
M-100 PRESSURE HOSE

SIZE QT D	NOMINAL OD QT D	MAXIMUM WORKING PRESSURE ØARD	NOMINAL BURST PRESSURE ØARD	MINIMUM CENTERLINE BEND ÜÖÖÜ QT D	STRIP THICKNESS QT D	WEIGHT PER METER (KÖD)
12	16.51	34.47	103.42	152.40	0.381	0.6
20	23.62	34.13	83.56	177.80	0.381	0.67
25	29.97	25.17	62.88	254.00	0.381	0.7
40	42.93	16.55	41.37	355.60	0.381	1.2
50	55.63	13.10	37.23	482.60	0.457	1.8
65	68.33	9.65	28.96	558.80	0.457	2.2
80	85.09	8.27	24.82	685.80	0.457	2.5
100	110.74	12.07	36.20	914.40	0.889	6.8
125	135.89	13.79	41.37	1,168.40	1.270	8.3
150	164.59	11.38	34.13	1,219.20	1.270	10.0
200	214.88	10.34	31.03	1,625.60	1.270	20.4
250	269.24	8.27	24.82	2,286.00	1.524	30.1
300	322.58	7.93	23.79	2,895.60	1.778	35.9
350	373.38	6.89	20.68	3,352.80	1.778	46.6
400	424.18	6.69	17.93	3,810.00	1.778	53.1
450	474.98	5.31	15.86	4,292.60	1.778	59.5
500	525.78	4.83	14.48	4,978.40	1.778	66.1
550	576.58	4.41	13.24	5,181.60	1.778	72.5
600	627.38	3.86	11.65	5,689.60	1.778	79.0
650	678.18	3.65	10.96	6,096.00	1.778	85.6
700	728.98	3.45	10.34	6,604.00	1.778	92.0

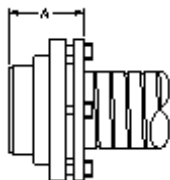
M-100 FITTINGS

Penflex manufactures M-100 hose assemblies with the following fittings. All M-100 assemblies are factory produced.

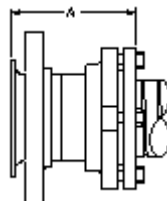
Titepak Rigid Flange TRF



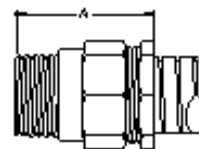
Titepak Weld End TWM



Titepak Floating Flange TFF



Male NPT End HM



Female NPT End HF

