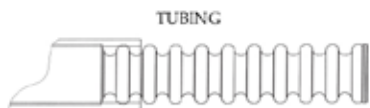


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WARDFLEX CSST



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
CORRUGATED STAINLESS STEEL TUBING (CSST)				
10A(3/8" x 1000 ft ⁺⁺	10A.WF1000	100	N/A	1
10A(3/8" x 500 ft ⁺	10A.WF500	102	N/A	1
10A(3/8" x 250 ft ⁺	10A.WF	104	N/A	1
10A(3/8" x 100 ft ⁺	10A.WF100	106	N/A	3
10A(3/8" x 50 ft ⁺	10A.WF50	108	N/A	5
15A(1/2" x 1000 ft ⁺⁺	15A.WF1000	110	N/A	1
15A(1/2" x 500 ft ⁺	15A.WF500	112	N/A	1
15A(1/2" x 250 ft ⁺	15A.WF	114	N/A	1
15A(1/2" x 100 ft ⁺	15A.WF100	116	N/A	3
15A(1/2" x 50 ft ⁺	15A.WF50	118	N/A	5
20A(3/4" x 500 ft ⁺⁺	20A.WF500	122	N/A	1
20A(3/4" x 250 ft ⁺⁺	20A.WF250	123	N/A	1
20A(3/4" x 180 ft ⁺	20A.WF	125	N/A	1
20A(3/4" x 100 ft ⁺	20A.WF100	126	N/A	2
20A(3/4" x 50 ft ⁺	20A.WF50	128	N/A	4
25A(1" x 250 ft ⁺⁺	25A.WF250	134	N/A	1
25A(1" x 180 ft ⁺	25A.WF	135	N/A	1
25A(1" x 100 ft ⁺	25A.WF100	136	N/A	2
25A(1" x 50 ft ⁺	25A.WF50	138	N/A	3
32A(1 1/4" x 250 ft ⁺⁺	32A.WF250	144	N/A	1
32A(1 1/4" x 100 ft ⁺	32A.WF100	146	N/A	1
32A(1 1/4" x 50 ft ⁺	32A.WF50	148	N/A	2
38A(1 1/2" x 150 ft ⁺⁺	38A.WF150	155	N/A	1
38A(1 1/2" x 100 ft ⁺⁺	38A.WF100	156	N/A	1
38A(1 1/2" x 50 ft ⁺⁺	38A.WF50	157	N/A	1
50A(2" x 150 ft ⁺⁺	50A.WF150	165	N/A	1
50A(2" x 100 ft ⁺⁺	50A.WF100	166	N/A	1
50A(2" x 50 ft ⁺⁺	50A.WF50	167	N/A	1

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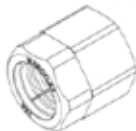
MECHANICAL JOINT FITTINGS MALE



* Note: Specify NPT when placing order

ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
MECHANICAL JOINT FITTINGS MALE				
10M (3/8") x 1/2" NPT	10MXD.WFMJ	201	24	192
10M (3/8") x 3/8" NPT*	10MXC.WFMJ	211	24	192
15M (1/2") x 1/2" NPT	15MXD.WFMJ	202	20	160
15M (1/2") x 3/8" NPT*	15MXC.WFMJ	212	20	160
20M (3/4") x 3/4" NPT	20MXE.WFMJ	203	12	96
25M (1") x 3/4" NPT	25MXE.WFMJ	204	8	64
25M (1") x 1" NPT*	25MX1.WFMJ	205	8	64
32M (1-1/4") x 1-1/4" NPT*	32MX1B.WFMJ	206	4	32
38M (1-1/2") x 1-1/2" NPT*	38MX1D.WFMJ	207	2	16
50M (2") x 2" NPT*	50MX2.WFMJ	208	1	8

MECHANICAL JOINT FITTINGS FEMALE



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
MECHANICAL JOINT FITTINGS FEMALE				
10M (3/8") x 1/2" NPT	10MXD.WFMJF	250	20	160
15M (1/2") x 1/2" NPT	15MXD.WFMJF	251	20	160
15MXC (1/2" x 3/8")	15MXC.WFMJF	258	20	160
20M (3/4") x 3/4" NPT	20MXE.WFMJF	252	12	96
20M (3/4") x 1/2" NPT*	20MXD.WFMJF	442	12	96
25M (1") x 3/4" NPT*	25MXE.WFMJF	253	8	64
25M (1") x 1" NPT*	25MX1.WFMJF	254	8	64

MECHANICAL COUPLING



* Note: Specify NPT when placing order

ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
MECHANICAL COUPLINGS				
10M (3/8")	10M.WFC	260	24	192
15M (1/2")	15M.WFC	261	20	160
20M (3/4")	20M.WFC	262	12	96
25M (1")	25M.WFC	263	6	48
32M (1 1/4")	32M.WFC	264	3	24
38M (1 1/2")	38M.WFC	265	1	8
50M (2")	50M.WFC	266	1	8

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OUTDOOR FLOOR FLANGE
TERMINATION NUT ASSEMBLY



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
OUTDOOR FLOOR FLANGE TERMINATION NUT ASSEMBLY				
10M (3/8")	10MXD.WFOTNA	430	15	60
15M (1/2")	15MXD.WFOTNA	431	15	60
20M (3/4")	20MXE.WFOTNA	432	8	32
25M (1")	25MXE.WFOTNA	433	3	18
32M (1 1/4")	32MXIB.WFOTNA	434	2	12
38M (1 1/2")	38MX1D.WFOTNA	435	1	6
50M (2")	50MX2.WFOTNA	436	1	6

MECHANICAL TEE MALE



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
MECHANICAL TEE MALE				
15M (1/2")	15M.WFT	351	4	32
15M x 10M (1/2" x 3/8")	15MX10M.WFT	362	4	32
15M x 10M x 10M (1/2" x 3/8" x 3/8")	15MX10MX10M.WFT	363	4	32
20M x 15M (3/4" x 1/2")	20MX15M.WFT	365	4	24
20M x 15M x 15M (3/4" x 1/2" x 1/2")	20MX15MX15M.WFT	366	4	24
20M (3/4")	20M.WFT	352	4	24
25M (1")	25M.WFT	353	2	16
25MX20M (1" x 3/4")	25MX20M.WFT	357	2	16
32M (1 1/4")	32M.WFT	354	1	6
38M (1 1/2")	38M.WFT	355	1	4
50M (2")	50M.WFT	356	1	2

APPLIANCE STUB OUT



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
APPLIANCE STUB-OUT				
1/2"	D.WFASO	381	N/A	15
3/4"	E.WFASO	382	N/A	15

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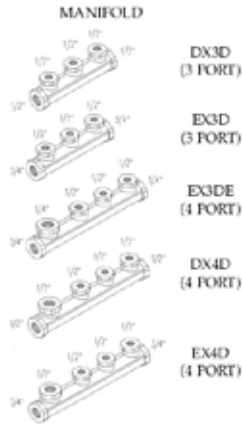
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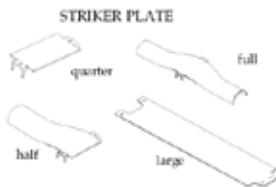
WARDFLEX CSST



MANIFOLD BRACKET



STRIPWOUND HOSE



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
MALLEABLE IRON MANIFOLD				
1/2" with (3) 1/2" outlets	DX3D.WFM	600	15	30
3/4" with (3) 1/2" outlets	EX3D.WFM	601	15	30
1/2" with (4) 1/2" outlets	DX4D.WFM	602	12	24
3/4" with (4) 1/2" outlets	EX4D.WFM	603	12	24
3/4" with (1)3/4" & (3)1/2" outlets	EX3DE.WFM	604	12	24

ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
MANIFOLD BRACKET				
BRACKET ASSEMBLY	1.WFMBRKA	690	N/A	20

ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
STRIPWOUND HOSE				
10A (3/8")	10A.WFGF	620	50 feet	N/A
10A (3/8")	10A.WFGFC	621	12 inch	N/A
15A (1/2")	15A.WFGF	622	50 feet	N/A
15A (1/2")	15A.WFGFC	623	12 inch	N/A
20A (3/4")	20A.WFGF	624	50 feet	N/A
20A (3/4")	20A.WFGFC	625	12 inch	N/A
25A (1")	25A.WFGF	626	50 feet	N/A
25A (1")	25A.WFGFC	627	12 inch	N/A
32A (1 1/4")	32A.WFGF	628	50 feet	N/A
32A (1 1/4")	32A.WFGFC	629	12 inch	N/A

ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
STRIKER PLATE				
QUARTER	Q.WFSP	610	N/A	80
HALF	H.WFSP	611	N/A	40
FULL	F.WFSP	612	N/A	40
LARGE	L.WFSP	613	N/A	20

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WARDFLEX CSST

APPROVED SYSTEM
LINE REGULATOR
for elevated pressure systems



Complies with ANSI Z21.80

ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
SYSTEM LINE REGULATOR				
3253D	3253D.WFREG	640	N/A	18
3255E	3255E.WFREG	641	N/A	4
32571B	32571B.WFREG	642	N/A	1
3253DOP	3253D.WFREGOP	643	N/A	18
3255EOP	3255E.WFREGOP	644	N/A	18

TUBING CUTTER



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
HARDENED WHEEL TUBING CUTTER (WFTC)				
10A - 20A CUTTER (MCC Model)	10A/20A.WFTC	662	1	N/A
REPLACEMENT-WHEEL FOR MCC Model	10A/20A.WFTCW	663	1	N/A
32A CUTTER (Reed Model)	32A.WFTC	666	1	N/A
20A - 32A CUTTER (MCC Model)	20A/32A.WFTC	664	1	N/A
REPLACEMENT-WHEEL FOR MCC Model	20A/32A.WFTCW	665	1	N/A
38A - 50A CUTTER (Ridgid Model)	38A/50A.WFTC	667	1	N/A
REPLACEMENT WHEEL FOR RIDGID model	38A/50A.WFTCW	668	1	N/A

PLASTIC REEL



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
PLASTIC REEL				
REEL	1.WFSPOOL	710	1	N/A

CADDY FOR PLASTIC REEL



ITEM	PRODUCT CODE	ITEM #	INNER BOX QUANTITY	MASTER CARTON QUANTITY
CADDY FOR THE PLASTIC REEL				
CADDY	1.WFCADDY	711	1	N/A

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Table A-9 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in KBTU per Hour for:
Gas Pressure: 2 P.S.I. Pressure Drop: 1 P.S.I. (Based on 1.52 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1 1/4") 37	38A (1 1/2") 48	50A (2") 62
5 feet	798	1562	3045	5846	9545	23724	41907
10 feet	558	1107	2169	4097	6837	16857	30227
15 feet	452	904	1778	3327	5623	13803	24968
20 feet	390	784	1544	2871	4896	11979	21802
25 feet	348	702	1385	2561	4397	10730	19625
30 feet	316	640	1266	2332	4027	9809	18008
40 feet	272	555	1100	2012	3507	8511	15725
50 feet	243	496	986	1794	3149	7624	14154
60 feet	221	454	903	1635	2884	6970	12989
80 feet	190	394	784	1410	2511	6048	11342
100 feet	169	351	703	1257	2256	5417	10210
150 feet	138	288	575	1021	1855	4436	8433
200 feet	119	248	501	880	1616	3849	7363
300 feet	96	204	411	716	1328	3152	6083
500 feet	73	158	319	550	1039	2450	4780

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
L = 1.3 (n) L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

NATURAL GAS

Table A-4 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
Gas Pressure: 2 P.S.I. Pressure Drop: 1 P.S.I. (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1 1/4") 37	38A (1 1/2") 48	50A (2") 62
5 feet	505	988	1926	3698	6038	15008	26511
10 feet	353	700	1372	2592	4325	10664	19122
15 feet	286	572	1125	2105	3557	8732	15795
20 feet	247	496	977	1816	3097	7578	13795
25 feet	220	444	876	1620	2782	6788	12415
30 feet	200	405	801	1475	2547	6205	11392
40 feet	172	351	696	1273	2218	5384	9948
50 feet	154	314	624	1135	1992	4823	8954
60 feet	140	287	571	1034	1825	4409	8217
80 feet	120	249	496	892	1589	3826	7175
100 feet	107	222	445	795	1427	3427	6459
150 feet	87	182	364	646	1173	2806	5335
200 feet	75	157	317	557	1022	2435	4658
300 feet	61	129	260	453	840	1994	3848
500 feet	46	100	202	348	657	1550	3024

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
L = 1.3 (n) L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

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Table A-8 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in KBTU per Hour for:
Gas Pressure: 11-13 Inches W.C. Pressure Drop: 0.5 Inches W.C. (Based on 1.52 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1 1/4") 37	38A (1 1/2") 48	50A (2") 62
5 feet	100	212	427	745	1380	3277	6312
10 feet	70	150	304	522	988	2328	4553
15 feet	57	122	248	424	812	1906	3761
20 feet	49	106	217	365	707	1653	3283
25 feet	43	95	193	326	635	1481	2956
30 feet	40	87	177	297	582	1355	2713
40 feet	33	74	153	256	506	1175	2368
50 feet	30	66	138	228	455	1053	2131
60 feet	27	62	126	207	416	963	1955
80 feet	24	52	109	179	363	835	1707
100 feet	21	47	98	160	325	748	1536
150 feet	16	38	81	130	268	612	1269
200 feet	14	33	70	112	233	531	1108
300 feet	11	27	57	90	191	435	915
500 feet	8	21	44	70	149	338	719

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
L = 1.3 (n) L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

NATURAL GAS

Table A-2 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
Gas Pressure: 7-8 inches W.C. Pressure Drop: 0.5 inches Water Column (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1 1/4") 37	38A (1 1/2") 48	50A (2") 62
5 feet	63	134	270	471	873	2073	3993
10 feet	44	95	192	330	625	1473	2880
15 feet	36	77	157	268	514	1206	2379
20 feet	31	67	137	231	447	1046	2077
25 feet	27	60	122	206	402	937	1870
30 feet	25	55	112	188	368	857	1716
40 feet	21	47	97	162	320	743	1498
50 feet	19	42	87	144	288	666	1348
60 feet	17	39	80	131	263	609	1237
80 feet	15	33	69	113	230	528	1080
100 feet	13	30	62	101	206	473	972
150 feet	10	24	51	82	170	387	803
200 feet	9	21	44	71	147	336	701
300 feet	7	17	36	57	121	275	579
500 feet	5	13	28	44	94	214	455

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
L = 1.3 (n) L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

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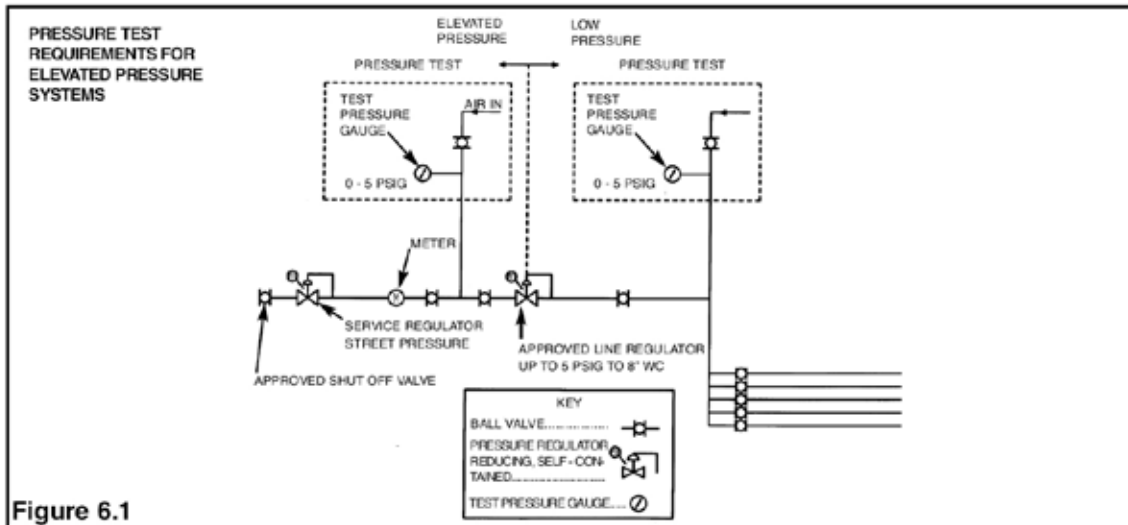
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WARDFLEX CSST

6.1 PRESSURE TESTING AND INSPECTION PROCEDURE

- The final installation is to be inspected and tested for leaks at 1 1/2 times the maximum working pressure, but not less than 3 PSIG, using procedures specified in Chapter 7 "Inspection, Testing and Purging" of the National Fuel Gas Code, NFPA 54/ANSI Z223.1 - 2002 (See Annex D). In Canada, refer to the applicable sections of the CAN/CGA - B149 Installation codes.
- Maximum test pressures recommended -10A-50A-40 PSI MAX.
Excess pressure will permanently distort tubing.
- Do not connect appliances until after pressure test is completed.
- Inspect the installed system to ensure:
 - Presence of listed striker plates and other protective devices at all required locations.
 - Acceptable physical condition of the tubing.
 - Presence of fittings (with nut bottomed out to the body).
 - Correct regulator and manifold arrangement with proper venting requirements.
- All gas outlets for appliance connections should be capped during pressure testing.
- Pressure testing should be performed during rough construction of the facility (before interior walls are finished). This will permit a more complete inspection of the piping system during the pressure testing.
- The elevated pressure system requires a two-part pressure test. (See Figure 6.1)
 - The first part is performed on the elevated pressure section, between the meter connection and the pressure regulator.
 - The second part is performed on the low pressure section, between the pressure regulator and the individual gas appliance outlets.



Appliance Connection and Leakage Check Procedure

- After the pressure test, inspection and final construction is complete (finished interior walls) connect the appliances to the tubing system.
- Turn the gas on at the meter and inspect for leaks before operating the appliance. Regulator adjustment may be necessary on 2 PSIG systems (refer to manufacturer's instruction) to obtain proper appliance line pressure.
- Connections made at each appliance must be checked for leaks with a non-corrosive commercial leak-testing fluid due to lack of sensitivity in solutions using soap buds or household detergents as stated in ASTM E515-05 section 9.3. Any leak detection solution coming in contact with the WARDFLEX System should have a sulfur and halogen content of less than 10 ppm of each (ASTM E515-05 section 7.4).
- Before placing appliances in operation, the piping system should be purged. This displaces the air in the system with fuel gas. Purge into a well ventilated area.

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