

Metraflex[®]

for pipes in motion



RISER ANCHOR CLAMP

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TRADE PRICES

**MINIMUM ORDER AMOUNT
\$50.00**

The Metraflex Company
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July 2018

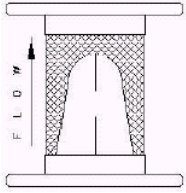
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*Made in America? Most of our products have some foreign content. If you need "Made in USA," contact us!

VANEFLEX™ FLOW STRAIGHTENING PUMP CONNECTORS

ANNULAR CORRUGATED S/S METAL HOSE WITH S/S METAL BRAID AND INTEGRAL STRAIGHTENING VANES



MODEL VF

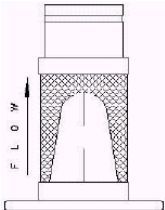
150# DRILLED FLAT FACE FLANGES

S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
OAL (inches)	9	9	9	9	11	11	12	13	14	14
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	156.00	190.00	197.00	252.00	397.00	446.00	930.00	1,235.00	1,975.00	3,056.00
WEIGHT (lbs)	10	14	15	19	27	30	54	77	108	118

Import



MODEL VFFG

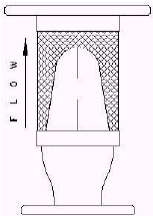
150# DRILLED FLAT FACE FLANGE X SCH. 40 GROOVED END

S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
OAL (inches)	11.75	11.75	11.75	11.75	13.5	13.5	15.25	16.25	17.25	17.25
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	8	12	13	16	23	25	43	65	85	90

Import



MODEL VFR

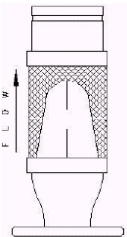
150# FLAT FACE FLANGED CONCENTRIC INCREASER X 150# FLAT FACE FLANGE

S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



INLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
OUTLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
OAL (IN.)	12.25	12.25	12.75	12.25	12.75	15.75	12.75	15.75	16.25	15.75	16.25	17.5	16.25	17.5	17.5	19.5	19.5	21.5
SIZE CODE	0225	0203	0204	2503	2504	2505	0304	0305	0306	0405	0406	0408	0506	0508	0608	0610	0810	1012
LIST PRICE	203.00	255.00	261.00	262.00	352.00	354.00	355.00	500.00	573.00	622.00	672.00	879.00	905.00	925.00	968.00	1,383.00	1,395.00	POA
Wt.(lbs)	16	17	20	18	21	28	22	29	33	32	35	65	39	66	67	99	99	142

Import



MODEL VFRFG

150# FLAT FACE FLANGED CONCENTRIC INCREASER X SCH.40 GROOVE END

S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



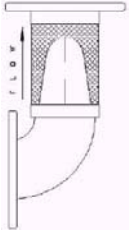
INLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
OUTLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
OAL (in.)	15	15	15.5	15	15.5	18.5	15.5	18.5	19	18.5	19	21	19	21	21	23	24	25
SIZE CODE	0225	0203	0204	2503	2504	2505	0304	0305	0306	0405	0406	0408	0506	0508	0608	0610	0810	1012
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WT.(lbs)	12	13	14	14	16	21	17	24	26	25	29	39	32	43	45	72	84	104

Import

FOR DOMESTIC CONSTRUCTION CONTACT FACTORY

VANEFLEX™ FLOW STRAIGHTENING PUMP CONNECTORS

ANNULAR CORRUGATED S/S METAL HOSE WITH S/S METAL BRAID AND INTEGRAL STRAIGHTENING VANES



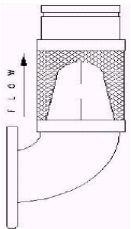
MODEL VF90

150# FLAT FACE FLANGED 90° ELBOW X 150# FLAT FACE FLANGE
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	162.00	196.00	252.00	344.00	496.00	664.00	1,023.00	1,636.00	POA	POA
WEIGHT (lbs)	12	19	21	29	44	56	104	165	233	278

Import



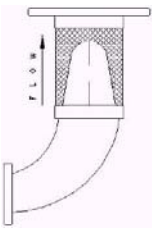
MODEL VF90FG

150# FLAT FACE FLANGED 90° ELBOW X SCH 40 GROOVED END
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	10	15	18	25	38	50	91	150	210	250

Import



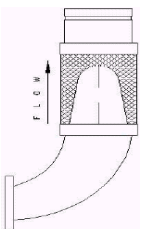
MODEL VF90R

150# FLAT FACE FLANGED 90° INCREASING ELBOW X 150# FLAT FACE FLANGE
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



INLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
OUTLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
SIZE CODE	0225	0203	0204	2503	2504	2505	0304	0305	0306	0405	0406	0408	0506	0508	0608	0610	0810	1012
LIST PRICE	POA	413.00	462.00	469.00	POA	POA	532.00	942.00	POA	662.00	734.00	POA	758.00	POA	1,636.00	POA	POA	POA
WEIGHT(lbs)	17	18	23	20	25	34	26	36	43	39	47	75	52	80	85	127	148	210

Import



MODEL VF90RFG

150# FLAT FACE FLANGED 90° INCREASING ELBOW X SCH. 40 GROOVED END
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



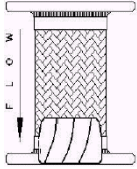
INLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
OUTLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
SIZE CODE	0225	0203	0204	2503	2504	2505	0304	0305	0306	0405	0406	0408	0506	0508	0608	0610	0810	1012
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT(lbs)	13	14	17	16	19	27	21	31	37	33	41	62	45	68	72	115	135	185

Import

FOR DOMESTIC CONSTRUCTION CONTACT FACTORY

SDF FLOW STRAIGHTENING PUMP CONNECTORS

ANNULAR CORRUGATED S/S METAL HOSE WITH S/S METAL BRAID AND INTEGRAL STRAIGHTENING VANES



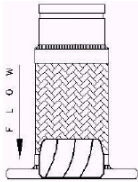
MODEL SDFL

150# DRILLED FLAT FACE FLANGES 321 S/S HOSE & BRAID
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE FOR
ATTACHMENT TO L.R. ELBOWS



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
OAL (inches)	9	9	9	9	11	11	12	13	14	14
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	150.00	181.00	190.00	244.00	387.00	430.00	892.00	1,186.00	1,899.00	2,939.00
WEIGHT (lbs)	10	14	15	19	27	30	54	77	108	118

Import



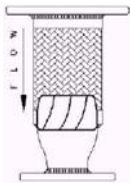
MODEL SDFLGF

SCH. 40 GROOVED END X 150# DRILLED FLAT FACE FLANGE
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE FOR
ATTACHMENT TO L.R. ELBOWS



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
OAL (inches)	11.75	11.75	11.75	11.75	13.5	13.5	15.25	16.25	17.25	17.25
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	8	12	13	16	23	25	43	65	85	90

Import



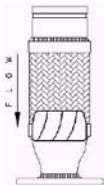
MODEL SDFLR

150# FLAT FACE FLANGE X CONCENTRIC REDUCER WITH 150# FLAT FACE FLANGE,
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE FOR ATTACHMENT TO L.R. ELBOWS



INLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
OUTLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
OAL (IN.)	12.25	12.25	12.75	12.25	12.75	15.75	12.75	15.75	16.25	15.75	16.25	17.5	16.25	17.5	17.5	19.5	19.5	21.5
SIZE CODE	2502	0302	0402	0325	0425	0525	0403	0503	0603	0504	0604	0804	0605	0805	0806	1006	1008	1210
LIST PRICE	193.00	244.00	247.00	251.00	334.00	336.00	339.00	476.00	638.00	639.00	640.00	916.00	677.00	917.00	918.00	1,326.00	1,309.00	POA
WT.(lbs)	16	17	20	18	21	28	22	29	33	32	35	65	39	66	67	99	99	142

Import



MODEL SDFLRGF

SCH.40 GROOVE END X 150# CONCENTRIC REDUCER WITH FLAT FACE FLANGED
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE FOR ATTACHMENT TO L.R. ELBOWS



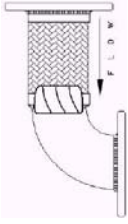
INLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
OUTLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
OAL (in.)	15	15	15.5	15	15.5	18.5	15.5	18.5	19	18.5	19	21	19	21	21	23	24	25
SIZE CODE	2502	0302	0402	0325	0425	0525	0403	0503	0603	0504	0604	0804	0605	0805	0806	1006	1008	1210
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WT.(lbs)	12	13	14	14	16	21	17	24	26	25	29	39	32	43	45	72	84	104

Import

FOR DOMESTIC CONSTRUCTION CONTACT FACTORY

SDF FLOW STRAIGHTENING PUMP CONNECTORS

ANNULAR CORRUGATED S/S METAL HOSE WITH S/S METAL BRAID AND INTEGRAL STRAIGHTENING VANES



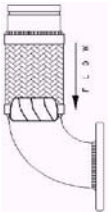
MODEL SDFL90

150# FLAT FACE X FLANGED 90° LR ELBOW 150# FLAT FACE FLANGE
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	162.00	200.00	255.00	349.00	500.00	673.00	1,032.00	1,654.00	POA	POA
WEIGHT (lbs)	12	19	21	29	44	56	104	165	233	278

Import



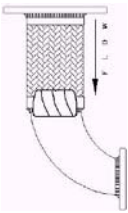
MODEL SDFL90GF

SCHD 40 GROOVED END X 90° LR ELBOW WITH 150# FLAT FACE FLANGE
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	10	15	18	25	38	50	91	150	210	250

Import



MODEL SDFL90R*

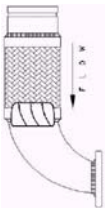
150# FLAT FACE FLANGE X 90° REDUCING ELBOW WITH 150# FLAT FACE FLANGE
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



INLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
OUTLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
SIZE CODE	2502	0302	0402	0325	0425	0525	0403	0503	0603	0504	0604	0804	0605	0805	0806	1006	1008	1210
LIST PRICE	POA	413.00	462.00	469.00	POA	POA	532.00	942.00	POA	662.00	734.00	POA	758.00	POA	1,636.00	POA	POA	POA
WT.(lbs)	17	18	23	20	25	34	26	36	43	39	47	75	52	80	85	127	148	210

*CONTACT FACTORY FOR SHORT RADIUS ELBOW

Import



MODEL SDFL90RGF

SCH. 40 GROOVED END X 150# FLAT FACE FLANGED 90° REDUCING ELBOW
S/S HOSE & BRAID, CARBON STEEL FITTINGS, STAINLESS STEEL VANE



INLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
OUTLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
SIZE CODE	2502	0302	0402	0325	0425	0525	0403	0503	0603	0504	0604	0804	0605	0805	0806	1006	1008	1210
LIST PRICE	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT(lbs)	13	14	17	16	19	27	21	31	37	33	41	62	45	68	72	115	135	185

Import

FLEXIBLE HOSE & BRAID PUMP CONNECTORS

MODEL SST

FOR CUSTOM LENGTHS AND END FITTINGS CONTACT FACTORY

STAINLESS STEEL HOSE AND BRAID WITH CARBON STEEL MALE THREAD ENDS



PIPE SIZE & LENGTH	1/2"X10"	3/4"X10"	1"X10"	1-1/4"X10"	1-1/2"X12"	2"X14"	2-1/2"X16"	3"X16"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300
SSTC (Import)	46.00	47.00	63.00	67.00	82.00	101.00	147.00	181.00
SST (Buy American)	60.00	62.00	82.00	88.00	112.00	133.00	194.00	239.00
WEIGHT (lbs)	1	1	1	1-1/2	2	3	4	6

MODEL SSTT

STAINLESS STEEL HOSE AND BRAID WITH CARBON STEEL MALE THREAD ENDS



PIPE SIZE & LENGTH	3/8"X6"	1/2"X6-1/2"	3/4"X7"	1"X8"	1-1/4"X8-1/2"	1-1/2"X9"	2"X10-1/2"
SIZE CODE	0038	0050	0075	0100	0125	0150	0200
SSTT (Import)	28.00	29.00	29.00	41.00	50.00	61.00	80.00
WEIGHT (lbs)	1	1	1	1	1	1-1/2	2

MODEL BBS

FEMALE SWEAT ENDS



PIPE SIZE & LENGTH	1/2"X10"	3/4"X10"	1"X10"	1-1/4"X10"	1-1/2"X12"	2"X14"	2-1/2"X16"	3"X16"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300
BBSC (Import)	40.00	49.00	72.00	99.00	144.00	209.00	330.00	395.00
BBS (Buy American)	60.00	85.00	113.00	128.00	169.00	299.00	788.00	962.00
WEIGHT (lbs)	1	1	1	2	3	4	5	6

MODEL BBCT

BRONZE HOSE WITH COPPER MALE THREAD ENDS



PIPE SIZE & LENGTH	1/2"X10"	3/4"X10"	1"X10"	1-1/4"X10"	1-1/2"X12"	2"X14"	2-1/2"X16"	3"X16"	4" x 16"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300	0400
BBCT (Buy American)	84.00	118.00	156.00	176.00	240.00	384.00	816.00	1,014.00	1,563.00
WEIGHT (lbs)	1	1	1	1.5	2	4	6	8	10

METRA – MINI

150# DRILLED FLAT FACE PLATE STEEL FLANGES



PIPE SIZE & LENGTH	2"X9"	2-1/2"X9"	3"X9"	4"X9"	5"X11"	6"X11"	8"X12"	10"X13"	12"X14"	14"X14"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400
MMCC (Import)	118.00	162.00	165.00	191.00	299.00	336.00	701.00	904.00	1,448.00	2,236.00
MM (Buy American)	149.00	198.00	232.00	270.00	432.00	482.00	956.00	1,313.00	2,049.00	3,130.00
WEIGHT (lbs)	9	13	14	18	25	28	52	75	105	115

MODEL SLP

150# DRILLED FLAT FACE PLATE STEEL FLANGES



PIPE SIZE & LENGTH	2-1/2"X10-1/4"	3"X10-5/8"	4"X11-3/4"	5"X13-5/8"	6"X14-1/8"	8"X15-3/8"	10"X17-3/4"	12"X18-3/8"
SIZE CODE	0250	0300	0400	0500	0600	0800	1000	1200
SLPC (Import)	251.00	268.00	330.00	574.00	618.00	1,380.00	1,911.00	2,829.00
SLP (Buy American)	290.00	311.00	381.00	663.00	715.00	1,594.00	2,208.00	3,269.00
WEIGHT (lbs)	13	14	19	27	30	62	68	153

FLEXIBLE HOSE & BRAID PUMP CONNECTORS

MODEL MLP



STAINLESS STEEL HOSE & BRAID WITH 150# DRILLED FLAT FACE PLATE STEEL FLANGES

PIPE SIZE & LENGTH	2"X12"	2-1/2"X12"	3"X14"	4"X16"	5"X18"	6"X20"	8"X22"	10"X24"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000
MLPC (Import)	260.00	315.00	339.00	510.00	706.00	831.00	1,404.00	1,925.00
MLP (Buy American)	314.00	380.00	407.00	614.00	850.00	1,001.00	1,688.00	2,317.00
WEIGHT (lbs)	12	13	15	20	30	34	68	75

MODEL GF

STAINLESS STEEL HOSE & BRAID WITH 150# DRILLED FLAT FACE PLATE STEEL FLANGE BY SCHEDULE 40 C/S GROOVED END

PIPE SIZE & LENGTH	2"X12"	2-1/2"X14"	3"X14"	4"X16"	5"X17"	6"X18"	8"X20"	10"X24"	12"X25"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
GFC (Import)	171.00	222.00	238.00	343.00	521.00	634.00	1,309.00	1,783.00	2,427.00
GF (Buy American)	227.00	291.00	312.00	449.00	685.00	830.00	1,721.00	2,342.00	3,186.00
WEIGHT (lbs)	9	13	14	18	25	28	52	75	105

MODEL GG



STAINLESS STEEL HOSE & BRAID WITH SCHEDULE 40 C/S GROOVED ENDS

PIPE SIZE & LENGTH	2"X12"	2-1/2"X14"	3"X14"	4"X16"	5"X17"	6"X18"	8"X20"	10"X24"	12"X25"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
GGC (Import)	141.00	188.00	216.00	265.00	460.00	578.00	1,129.00	1,560.00	2,242.00
GG (Buy American)	183.00	244.00	281.00	344.00	598.00	752.00	1,465.00	2,030.00	2,914.00
WEIGHT (lbs)	9	13	14	18	25	28	52	75	100

MODEL RMF



150# FLAT FACE FLANGE X CONCENTRIC REDUCER WITH 150# C/S FLAT FACE FLANGE, S/S HOSE & BRAID, WT. CONCENTRIC CARBON STEEL REDUCER

INLET	2-1/2"	3"	4"	3"	4"	5"	4"	5"	6"	5"	6"	8"	6"	8"	8"	10"	10"	12"
OUTLET	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	10"
OAL (IN)	12.25	12.25	12.75	12.25	12.75	15.75	12.75	15.75	16.25	15.75	16.25	17.5	16.25	17.5	17.5	19.5	19.5	21.5
SIZE CODE	2502	0302	0402	0325	0425	0525	0403	0503	0603	0504	0604	0804	0605	0805	0806	1006	1008	1210
PRICE	188.00	207.00	225.00	207.00	225.00	354.00	225.00	354.00	393.00	354.00	393.00	706.00	393.00	706.00	706.00	929.00	929.00	1,502.00
WEIGHT (lbs)	16	17	20	18	21	28	22	29	33	32	35	65	39	66	67	99	99	142

Import

MODEL RSSC



REDUCING STAINLESS STEEL HOSE & BRAID WITH 150# CARBON STEEL FLANGES

LARGE DIAMETER	3"	4"			5"		6"		8"		10"		12"	
SMALL DIAMETER	2-1/2"	2-1/2"	3"	3"	4"	4"	4"	5"	5"	6"	6"	8"	8"	10"
F/F	9	9	9	9	9	9	9	11	11	11	11	12	12	13
SIZE CODE	2503	2504	0304	0305	0405	0406	0506	0508	0608	0610	0810	0812	1012	
PRICE	177.00	191.00	200.00	215.00	271.00	274.00	388.00	413.00	533.00	572.00	737.00	779.00	1,017.00	
WEIGHT	14	14	16	22	25	30	35	58	61	80	85	105	132	

Import

ELASTO-FLEX CONNECTORS

EPDM TUBE – STAINLESS STEEL BRAID – MALE & FEMALE SWIVEL

PIPE SIZE	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"***
X 12" LENGTH	26.00	28.00	42.00	79.00	170.00	262.00	430.00
X 18" LENGTH	29.00	34.00	50.00	88.00	183.00	284.00	456.00
X 24" LENGTH	36.00	37.00	59.00	101.00	201.00	306.00	494.00
X 30" LENGTH	41.00	43.00	71.00	112.00	215.00	329.00	498.00
X 36" LENGTH	44.00	46.00	78.00	132.00	231.00	351.00	553.00

** 18" minimum recommended length

Import

FLEXIBLE HOSE & BRAID PUMP CONNECTORS

SUPERFLEX



STAINLESS STEEL SUPER FLEXIBLE HOSE & BRAID – S/S MALE & FEMALE UNION

Model SFLXTU PIPE SIZE	1/2"	Weight (lbs)	3/4"	Weight (lbs)	1"	Weight (lbs)	1-1/4"	Weight (lbs)	1-1/2"	Weight (lbs)	2"	Weight (lbs)
X 12" LENGTH	64.00	2	82.00	3	153.00	3	-	-	-	-	-	-
X 18" LENGTH	66.00	2	104.00	3	175.00	4	190.00	4	294.00	5	382.00	-
X 24" LENGTH	71.00	3	114.00	3	194.00	4	197.00	5	312.00	6	436.00	-
X 30" LENGTH	88.00	3	136.00	4	216.00	4	215.00	5	318.00	7	442.00	-
X 36" LENGTH	98.00	3	151.00	4	258.00	5	230.00	6	333.00	7	444.00	-

Import

GAS CONNECTORS (CSA/AGA Approved ANSI – 536)

STAINLESS STEEL HOSE AND BRAID, CARBON STEEL ENDS, 2" OFFSET

SIZE	1/2"x16-7/8"	3/4"x18-3/8"	1"x19-3/8"	1-1/4"x19-3/8"	1-1/2"x20-1/8"	2"x20-7/8"	2-1/2"x22-1/2"	3"x25-5/8"	4"x30-1/4"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300	0400
MODEL GASCW- WELD END	313.00	336.00	388.00	433.00	490.00	528.00	658.00	710.00	840.00
MODEL GASCT- THREAD END	253.00	276.00	341.00	349.00	421.00	468.00	624.00	771.00	894.00
WEIGHT (lbs.)	1	1	2	2	3	4	5	8	13

Buy American

RAF



FLEXIBLE REFRIGERATION CONNECTORS

TESTED AND RECOGNIZED BY UNDERWRITERS LABORATORIES INC.
INTERNALLY CLEANED AND DEHYDRATED – PACKED IN SEALED POLY BAG.

FEMALE SWEAT ENDS** TO FIT COPPER TUBING

PART #	RAF2	RAF3	RAF4	RAF5	RAF6
SIZE & LENGTH NOM.	1/8"X7-1/2"	1/4"X8-1/4"	3/8"X9"	1/2" X 9-3/4"	5/8"X10"
SIZE & LENGTH O.D.	1/4"X7-1/2"	3/8"X8-1/4"	1/2"X9"	5/8"X9-3/4"	3/4"X10"
PRICE	39.00	44.00	45.00	51.00	56.00
PRESSURE (PSI) AT 70° F	450	450	450	450	475
WEIGHT (lbs)	1/2	1/2	1/2	1/2	1
PART #	RAF7	RAF8	RAF9	RAF10	RAF11
SIZE & LENGTH NOM.	5/8"X11-1/4"	3/4"X11-1/2"	1"X13"	1-1/4"X14-3/4"	1-1/2"X17"
SIZE & LENGTH O.D.	3/4"X11-1/4"	7/8"X11-1/2"	1-1/8"X13"	1-3/8"X14-3/4"	1-5/8"X17"
PRICE	68.00	69.00	97.00	116.00	159.00
PRESSURE (PSI) AT 70° F	340	340	302	280	245
WEIGHT (lbs)	1	1	1-1/2	2-1/2	3-1/2
PART #	RAF12	RAF13	RAF14	RAF15	RAF16
SIZE & LENGTH NOM.	2"X20"	2-1/2"X24"	3"X27"	3-1/2"X32"	4"X33"
SIZE & LENGTH O.D.	2-1/8" X20"	2-5/8"X24"	3-1/8"X27"	3-5/8"X32"	4-1/8"X33"
PRICE	234.00	459.00	549.00	1,046.00	1,058.00
PRESSURE (PSI) AT 70° F	190	320	302	150	150
WEIGHT (lbs)	5	5	7	13	21

Buy American

** Male ends available. Size 1/4" O.D. to 1/2" O.D. are 3/4" longer; 5/8" O.D. to 1-5/8" O.D. are 1" longer; 2-1/8" O.D and above are the same length. Contact Factory.

RUBBER / ELASTOMER TYPE EXPANSION JOINTS / FLEXIBLE CONNECTORS

CABLESPHERE

150# ELECTRO GALVANIZED STEEL FLANGES

STYLE "R" SPHERE WITH CONTROL CABLES - WORKING PRESSURE 150 PSI @ 200°F



MATERIAL		Model	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
TUBE	COVER		0200	0250	0300	0400	0500	0600	0800	1000	1200
EPDM	EPDM	MSRCEE	320.00	376.00	430.00	504.00	562.00	622.00	1,150.00	1,826.00	2,299.00
NEOPRENE	NEOPRENE	MSRCNN	324.00	378.00	433.00	508.00	564.00	630.00	1,163.00	1,847.00	2,319.00
BUTYL	BUTYL	MSRCBB	342.00	418.00	483.00	558.00	630.00	701.00	1,270.00	1,901.00	2,419.00
NITRILE	NEOPRENE	MSRCPN	353.00	430.00	503.00	589.00	646.00	719.00	1,297.00	1,941.00	2,432.00
WEIGHT			9	14	15	19	24	29	44	61	88

Specify drilled or tapped flanges when ordering.

Import

METRASPHERE

150# ELECTRO GALVANIZED STEEL FLANGES

WORKING PRESSURE 1" - 12" 150 PSI @ 200°F; 14" - 20" 95 PSI @ 200°F



MATERIAL		Model	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"
TUBE	COVER		0100	0125	0150	0200	0250	0300	0400	0500
EPDM	EPDM	MSREE	207.00	215.00	220.00	253.00	284.00	354.00	417.00	464.00
NEOPRENE	NEOPRENE	MSRNN	219.00	226.00	230.00	265.00	299.00	373.00	438.00	488.00
BUTYL	BUTYL	MSRBB	226.00	234.00	246.00	293.00	319.00	407.00	470.00	525.00
NITRILE	NEOPRENE	MSRPN	242.00	253.00	268.00	298.00	337.00	417.00	478.00	543.00
WEIGHT			5	6	7	8	13	14	18	23
MATERIAL		Model	6"	8"	10"	12"	14"	16"	18"	20"
TUBE	COVER		0600	0800	1000	1200	1400	1600	1800	2000
EPDM	EPDM	MSREE	504.00	762.00	1,252.00	1,604.00	2,267.00	2,600.00	2,897.00	3,458.00
NEOPRENE	NEOPRENE	MSRNN	531.00	799.00	1,311.00	1,684.00	2,377.00	2,729.00	3,040.00	3,631.00
BUTYL	BUTYL	MSRBB	551.00	833.00	1,362.00	1,743.00	2,473.00	2,827.00	3,174.00	3,846.00
NITRILE	NEOPRENE	MSRPN	581.00	869.00	1,379.00	1,801.00	2,528.00	2,868.00	3,332.00	3,938.00
WEIGHT			28	43	60	87	105	120	145	155

Prices as noted are for style "O" or "R" (Specify "O" or "R" when ordering). (Specify drilled or tapped holes when ordering).

Import

CONTROL UNITS FOR METRASPHERE (2 ROD SET)

SIZE	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PRICE	194.00	194.00	194.00	202.00	202.00	219.00	219.00	230.00	290.00	340.00	370.00	384.00	502.00	542.00	591.00	762.00
WT. (LBS)	5	5	7	7	7	7	9	9	16	26	26	26	31	33	35	45

Import

METRASPHERE STYLE "MSC"*

CONCENTRIC REDUCING SPHERICAL JOINT

EPDM/NYLON BODY-150# ELECTRO GALVANIZED STEEL FLANGES WORKING PRESSURE 150 PSI @ 200°F



LARGE DIAMETER	3"		4"		6"	8"		10"
SMALL DIAMETER	2"	2-1/2"	2"	3"	4"	4"	6"	8"
F/F	8	8	8	8	8	8	8	8
SIZE CODE	3X2X8	3X2.5X8	4X2X8	4X3X8	6X4X8	8X4X8	8X6X8	10X8X8
PRICE	436.00	471.00	485.00	504.00	692.00	946.00	968.00	1,675.00
WEIGHT	15	16	18	19	28	40	46	69

For control units, see 100C – Page 13

Import

RUBBER / ELASTOMER TYPE EXPANSION JOINTS / FLEXIBLE CONNECTORS

DOUBLE CABLESPHERE

150# ELECTRO GALVANIZED PLATE STEEL FLANGES WITH CONTROL CABLES
MAXIMUM WORKING PRESSURE 150 PSI AT 200°F



MATERIAL		Model	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
TUBE	COVER		0200	0250	0300	0400	0500	0600	0800	1000	1200
EPDM	EPDM	DSRCEE	324.00	388.00	442.00	512.00	600.00	684.00	1,248.00	1,859.00	2,349.00
NEOPRENE	NEOPRENE	DSRCNN	333.00	394.00	462.00	527.00	613.00	717.00	1,311.00	1,949.00	2,469.00
BUTYL	BUTYL	DSRCBB	351.00	423.00	489.00	562.00	644.00	727.00	1,374.00	2,002.00	2,555.00
NITRILE	NEOPRENE	DSRCPN	366.00	435.00	511.00	597.00	667.00	745.00	1,391.00	2,035.00	2,608.00
WEIGHT			11	14	15	21	26	35	49	65	88

Import

DOUBLE SPHERE

150# ELECTRO GALVANIZED PLATE STEEL FLANGES
2" - 12" MAXIMUM WORKING PRESSURE 150 PSI AT 200°F / 14" - 20" 95 PSI AT 200°F



MATERIAL		Model	2"	2-1/2"	3"	4"	5"	6"	8"
TUBE	COVER		0200	0250	0300	0400	0500	0600	0800
EPDM	EPDM	DSEE	268.00	299.00	388.00	436.00	523.00	594.00	880.00
NEOPRENE	NEOPRENE	DSNN	279.00	312.00	401.00	449.00	536.00	621.00	922.00
BUTYL	BUTYL	DSBB	289.00	336.00	411.00	470.00	550.00	636.00	968.00
NITRILE	NEOPRENE	DSPN	305.00	343.00	423.00	483.00	579.00	645.00	978.00
WEIGHT			10	12	14	20	24	33	47

MATERIAL		Model	10"	12"	14"	16"	18"	20"
TUBE	COVER		1000	1200	1400	1600	1800	2000
EPDM	EPDM	DSEE	1,311.00	1,656.00	2,357.00	2,710.00	3,067.00	3,594.00
NEOPRENE	NEOPRENE	DSNN	1,379.00	1,737.00	2,474.00	2,841.00	3,217.00	3,775.00
BUTYL	BUTYL	DSBB	1,413.00	1,803.00	2,555.00	2,927.00	3,270.00	4,025.00
NITRILE	NEOPRENE	DSPN	1,442.00	1,839.00	2,603.00	3,264.00	3,307.00	4,122.00
WEIGHT			63	85	135	175	180	195

Import

CONTROL UNITS FOR DOUBLESPIHERE (2 ROD SET)

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
PRICE	213.00	219.00	219.00	237.00	237.00	248.00	317.00	372.00	407.00	424.00	545.00	591.00	647.00
WEIGHT (LBS)	8	10	10	12	12	14	16	18	20	30	32	36	40

Import

DOUBLE SPHERE UNION W/CONTROL CABLES

NEOPRENE / NYLON BODY – FEMALE THREAD ENDS
MAXIMUM WORKING PRESSURE 150 PSI AT 180°F



MATERIAL		Model	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
TUBE	COVER		0075	0100	0125	0150	0200	0250	0300
NEOPRENE	NEOPRENE	TSU	152.00	193.00	225.00	265.00	360.00	603.00	958.00
WEIGHT			2	3	4	5	7	12	18

Import

RUBBER / ELASTOMER TYPE EXPANSION JOINTS / FLEXIBLE CONNECTORS

MIGHTYSPHERE - SINGLE

PEROXIDE CURED EPDM KEVLAR® REINFORCED

WITH 150# ELECTRO GALVANIZED STEEL FLANGES - WORKING PRESSURE 215 PSI @ 250°F



SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
MODEL MSRDKEE	361.00	469.00	568.00	732.00	858.00	1,124.00	1,622.00	1,989.00	2,634.00
WEIGHT	8	13	14	18	23	28	43	60	87

Import

MIGHTYSPHERE - DOUBLE

PEROXIDE CURED EPDM KEVLAR® REINFORCED

WITH 150# ELECTRO GALVANIZED STEEL FLANGES - WORKING PRESSURE 215 PSI @ 250°F



SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
MODEL DSKEE	568.00	809.00	921.00	1,137.00	1,273.00	1,780.00	2,273.00	3,284.00	4,660.00
WEIGHT	10	12	14	20	24	33	47	63	85

Import

MODEL 711FRP

SINGLE WIDE ARCH EPDM, 150# FIXED FLANGES



SIZE	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
SIZE CODE	0400	0500	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400
MODEL 711FRP	1,305.00	1,347.00	1,434.00	1,865.00	2,160.00	2,459.00	3,055.00	3,354.00	3,878.00	4,536.00	4,901.00	5,822.00
WEIGHT (lbs)	17	19	23	30	38	54	64	75	79	91	95	121

Import



MODEL 711

SINGLE WIDE ARCH - 230°F MAX for EPDM, 220°F for Butyl, Neoprene and Hypalon, 190°F for Nitrile

150# FLANGE DRILLING WITH RETAINING RINGS

MATERIAL			2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
TUBE	COVER	Model	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400	1600	1800	2000	2400
BUTYL	BUTYL	711	485.00	518.00	562.00	637.00	716.00	781.00	988.00	1,395.00	1,792.00	2,530.00	2,906.00	3,231.00	3,870.00	4,252.00
EPDM	EPDM	711EE	509.00	548.00	593.00	673.00	753.00	823.00	1,036.00	1,469.00	1,881.00	2,661.00	3,055.00	3,393.00	4,059.00	4,464.00
NEOPRENE	NEOPRENE	711NN	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
NITRILE	NEOPRENE	711PN	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT			5	6	7	10	11	21	26	31	35	42	64	71	82	102

Filled Arch – Contact Factory

Import

RUBBER / ELASTOMER TYPE EXPANSION JOINTS / FLEXIBLE CONNECTORS

MODEL 100HT



BUTYL TUBE & COVER 230°F MAX. – 150# FLANGE DRILLING WITH RETAINING RINGS

SIZE	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
PRICE-6" F/F	POA	623.00	697.00	716.00	781.00	904.00	1,024.00	1,248.00	1,324.00						
PRICE-8" F/F	PRICE ON APPLICATION									1,817.00	2,152.00	2,509.00	3,061.00	3,405.00	POA
PRICE-10" F/F	PRICE ON APPLICATION														
WEIGHT (lbs)	4	6	7	8	11	13	14	20	26	35	53	67	81	86	102

Filled Arch - Contact Factory

Import

CONTROL UNITS FOR 711 AND 100 HT (2 ROD SET)

SIZE	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PRICE	176.00	176.00	176.00	186.00	186.00	201.00	201.00	208.00	266.00	312.00	336.00	354.00	458.00	495.00	542.00	696.00
WEIGHT (lbs)	5	5	7	7	7	7	9	9	16	26	26	26	31	33	35	45

Import

MODEL 100C

BUTYL TUBE & COVER CONCENTRIC REDUCERS, 230°F MAXIMUM,
125# FLANGE DRILLING WITH RETAINING RINGS



LARGE DIAMETER	2"		2-1/2"		3"			4"			5"	
SMALL DIAMETER	1"	1-1/2"	1-1/2"	2"	1-1/2"	2"	2-1/2"	2"	2-1/2"	3"	3"	4"
F/F (in.)	6	6	6	6	6	6	6	6	6	6	6	6
SIZE CODE	2X1X6	2X1.5X6	2.5X1.5X6	2.5X2X6	3X1.5X6	3X2X6	3X2.5X6	4X2X6	4X2.5X6	4X3X6	5X3X6	5X4X6
PRICE	447.00	527.00	637.00	675.00	688.00	787.00	873.00	987.00	1,021.00	1,092.00	1,159.00	1,258.00
WEIGHT (lb) W/RINGS	8	8	10	11	11	12	13	15	16	17	18	18

LARGE DIAMETER	6"					8"					10"					
SMALL DIAMETER	2"	2-1/2"	3"	4"	4"	5"	3"	4"	4"	5"	6"	6"	5"	6"	8"	8"
F/F (in.)	8	6	6	6	8	6	6	6	8	6	6	6	8	8	8	8
SIZE CODE	6X2X8	6X2.5X6	6X3X6	6X4X6	6X4X8	6X5X6	8X3X6	8X4X6	8X4X8	8X5X6	8X6X6	8X6X8	10X5X8	10X6X8	10X8X6	10X8X8
PRICE	POA	1,258.00	1,322.00	1,410.00	POA	1,543.00	1,468.00	1,587.00	POA	1,813.00	1,969.00	2,056.00	2,453.00	2,589.00	2,834.00	3,234.00
WEIGHT (lb) W/RINGS	18	19	19	20	24	26	26	28	30	31	33	34	36	38	40	43

LARGE DIAMETER	12"				14"				16"				18"			
SMALL DIAMETER	8"	8"	8"	10"	8"	10"	12"	10"	12"	14"	12"	14"	16"			
F/F (in.)	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	
SIZE CODE	12X8X6	12X8X6	12X8X8	12X10X8	14X8X8	14X10X8	14X12X8	16X10X8	16X12X8	16X14X8	18X12X8	18X14X8	18X16X8			
PRICE	POA	POA	3,225.00	3,290.00	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	
WEIGHT (lb) W/RINGS	48	50	53	59	65	68	70	78	81	88	89	90	99			

Filled Arch - Contact Factory

Import

CONTROL UNITS FOR 100C (2 ROD SET)

LARGE DIA.	2"		2-1/2"		3"			4"			5"		6"			
SMALL DIA.	1"	1-1/2"	1-1/2"	2"	1-1/2"	2"	2-1/2"	2"	2-1/2"	3"	3"	4"	2-1/2"	3"	4"	5"
PRICE	204.00	214.00	214.00	226.00	214.00	226.00	237.00	230.00	240.00	251.00	230.00	266.00	240.00	248.00	262.00	277.00
WEIGHT	6	6	7	7	7	7	7	7	8	8	10	10	12	12	11	11

LARGE DIA.	8"				10"				12"				14"				16"				18"			
SMALL DIA.	3"	4"	5"	6"	5"	6"	8"	8"	10"	8"	10"	12"	10"	12"	14"	12"	14"	16"						
PRICE	308.00	319.00	336.00	354.00	359.00	375.00	395.00	388.00	412.00	408.00	434.00	452.00	524.00	548.00	579.00	569.00	596.00	625.00						
WEIGHT	19	19	18	18	27	26	25	29	24	29	29	27	36	36	37	37	37	34						

Import

RUBBER / ELASTOMER TYPE EXPANSION JOINTS / FLEXIBLE CONNECTORS

MODEL T1C, T2C



TEFLON CONNECTORS AND EXPANSION JOINTS

SIZE	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0100	0150	0200	0250	0300	0400	0500	0600	0800	1000	1200
T1C PRICE	225.00	280.00	336.00	380.00	504.00	674.00	841.00	976.00	1,304.00	1,683.00	2,522.00
T2C PRICE	280.00	336.00	584.00	674.00	731.00	841.00	1,121.00	1,179.00	1,759.00	2,802.00	3,365.00
WEIGHT (lbs)	6	6	8	9	17	21	23	27	45	73	82

Import

MODEL T1R, T2R



TEFLON CONNECTORS AND EXPANSION JOINTS

SIZE	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0150	0200	0250	0300	0400	0500	0600	0800	1000	1200
T1R PRICE	743.00	853.00	1,053.00	1,226.00	1,513.00	1,981.00	2,244.00	3,589.00	5,438.00	9,557.00
T2R PRICE	881.00	1,160.00	1,336.00	1,522.00	1,913.00	2,284.00	2,563.00	3,860.00	7,536.00	11,200.00
WEIGHT (lbs)	6	8	9	17	21	23	27	45	73	82

Buy American

MODEL 201

NEOPRENE/NYLON BODY – SLIP ON CONNECTOR WITH STAINLESS STEEL CLAMPS
MAXIMUM WORKING PRESSURE 75 PSI AT 225°F



SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
PRICE	643.00	658.00	663.00	794.00	820.00	906.00	950.00	1,051.00	1,135.00
WEIGHT (lbs)	2	2	2	3	3	3-1/4	4	6	6-1/2

Buy American

MODEL 400HT

BUTYL MATERIAL, 150 PSI – 230°F MAX. – 150# FLANGE DRILLING WITH RETAINING RINGS



SIZE	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
PRICE - 12" F/F	545.00	571.00	745.00	827.00	1,021.00	1,201.00	1,371.00	-	-	-
PRICE – 18" F/F	841.00	947.00	1,043.00	1,104.00	1,254.00	1,516.00	1,656.00	1,765.00	2,456.00	3,027.00
ADD-ON PER 6"	30.00	52.00	56.00	69.00	83.00	109.00	118.00	164.00	190.00	228.00
WEIGHT (lbs) MIN. LGT.	7	7	10	12	15	18	21	32	54	72

Import

METRASEAL

MECHANICAL PIPE PENETRATION SEAL

10 LINK BELT



TYPE	BELT OF 10 LINKS	MODEL NUMBER														
		MS-200	MS-275	MS-300	MS-315	MS-325	MS-340	MS-360	MS-400	MS-410	MS-425	MS-475	MS-500	MS-525	MS-575	MS-600
E	PRICE	21.00	27.00	33.00	54.00	67.00	84.00	106.00	127.00	106.00	108.00	114.00	261.00	220.00	177.00	962.00
ES	PRICE	29.00	38.00	56.00	85.00	126.00	130.00	143.00	178.00	151.00	151.00	161.00	358.00	358.00	286.00	1,653.00
P	PRICE	23.00	29.00	36.00	59.00	74.00	95.00	116.00	140.00	115.00	118.00	126.00	287.00	244.00	194.00	1,060.00
PS	PRICE	31.00	42.00	61.00	96.00	138.00	142.00	157.00	197.00	168.00	168.00	177.00	394.00	394.00	316.00	1,819.00
HT	PRICE	73.00	90.00	109.00	169.00	316.00	-	-	468.00	-	471.00	476.00	878.00	880.00	886.00	-
WEIGHT/BELT		1	1	2-1/2	3-1/2	6	-	-	12	10	10	11	23	21	20	62

E=EPDM, P=Nitrile, S=S.S, HT=Silicone

Import

WALL SLEEVES

WITH 2" WATER STOP

NOMINAL PIPE SIZE AND LENGTH	GALVANIZED CARBON STEEL		WEIGHTS (LBS)	PLASTIC PIPE		WEIGHTS (LBS)
	PART #	PRICE		PART #	PRICE	
2" X 12"	WSCSG0200	47.00	6	WSPVC0200	107.00	3
2 1/2" X 12"	WSCSG0250	49.00	8	WSPVC0250	118.00	4
3" X 12"	WSCSG0300	65.00	10	WSPVC0300	124.00	5
3 1/2" X 12"	WSCSG0350	72.00	12	WSPVC0350	129.00	6
4" X 12"	WSCSG0400	78.00	14	WSPVC0400	138.00	7
5" X 12"	WSCSG0500	91.00	18	WSPVC0500	158.00	9
6" X 12"	WSCSG0600	112.00	23	WSPVC0600	185.00	11
8" X 12"	WSCSG0800	172.00	34	WSPVC0800	252.00	17
10" X 12"	WSCSG1000	195.00	47	WSPVC1000	284.00	23
12" X 12"	WSCSG1200	269.00	57	WSPVC1200	310.00	28
14" X 12"	WSCSG1400	346.00	62	WSPVC1400	POA	31
16" X 12"	WSCSG1600	401.00	72	WSPVC1600	POA	36
18" X 12"	WSCSG1800	736.00	80	WSPVC1800	POA	40

Import

Buy American

EXPANSION COMPENSATORS

2 INCH AXIAL COMPRESSION COPPER PIPE MODEL HPFF2

MAXIMUM WORKING PRESSURE 150 PSI @ 500° F

AXIAL: 2.0" COMPRESSION, 0.50" EXPANSION

FEMALE BY FEMALE SWEAT ENDS



SIZES (Nominal)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0075	0100	0125	0150	0200	0250	0300	0400
PRICE	212.00	227.00	257.00	277.00	319.00	362.00	441.00	552.00
WEIGHT (lbs)	1.3	1.5	2	2	3.2	4	4.5	9

Import

STEEL PIPE MODEL HPT2/HPW2 AND HPF2/HPG2

MAXIMUM WORKING PRESSURE 175 PSI @ 750° F, AXIAL:2.0" COMPRESSION, 0.50" EXTENSION

HPT – THREAD ENDS, HPW – WELD ENDS, HPF – 150# PLATE STEEL FLANGED ENDS



SIZES (inches)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0075	0100	0125	0150	0200	0250	0300	0400
HPT2 and HPW2	194.00	209.00	227.00	253.00	272.00	373.00	421.00	552.00
WEIGHT (lbs)	3	4	5	7	10	14	18	25
HPF2/HPG2	217.00	231.00	251.00	288.00	390.00	601.00	654.00	846.00
WEIGHT (lbs)	8	9	12	14	18	29	34	47

Import

3 INCH AXIAL COMPRESSION

COPPER PIPE MODEL HPFF3

MAXIMUM WORKING PRESSURE 150 PSI @ 400° F AXIAL: 3.0" COMPRESSION, 0.50" EXPANSION

FEMALE BY FEMALE SWEAT ENDS



SIZES (Nominal)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0075	0100	0125	0150	0200	0250	0300	0400
PRICE	240.00	259.00	288.00	321.00	372.00	430.00	518.00	660.00
WEIGHT (lbs)	2-1/2	3	4-1/2	6	8	12	16	NA

Import

STEEL PIPE MODEL HPT3/HPW3 AND HPF3/HPG3

MAXIMUM WORKING PRESSURE 175 PSI @ 750° F, AXIAL:3.0" - COMPRESSION, 0.50" EXTENSION

HPT – C/S SCH 40THREAD ENDS, HPW – C/S SCH 40 WELD ENDS, HPF – 150# PLATE STEEL FLANGED ENDS



SIZES (inches)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0075	0100	0125	0150	0200	0250	0300	0400
HPT3 and HPW3	237.00	258.00	275.00	306.00	332.00	448.00	521.00	694.00
WEIGHT (lbs)	4	6	6	8	12	16	21	28
HPF3/HPG3	302.00	319.00	374.00	408.00	522.00	660.00	816.00	881.00
WEIGHT (lbs)	9	10	13	15	20	31	36	49

Import

EXPANSION COMPENSATORS

4 INCH AXIAL COMPRESSION

STEEL PIPE MODEL HPTD4/HPWD4 AND HPFD4

MAXIMUM WORKING PRESSURE 175 PSI @ 750° F, AXIAL:4.0" - COMPRESSION, 1" EXTENSION

HPT – C/S SCH 40 THREAD ENDS, HPW – C/S SCH 40WELD ENDS, HPF – 150# PLATE STEEL FLANGED ENDS



SIZES (inches)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0075	0100	0125	0150	0200	0250	0300	0400
HPTD4 and HPWD4	349.00	369.00	398.00	456.00	714.00	766.00	857.00	1,251.00
WEIGHT (lbs)	4	6	6	8	12	16	21	28
HPFD4	428.00	466.00	499.00	569.00	781.00	834.00	1,085.00	1,558.00
WEIGHT (lbs)	10	16	23	26	29	45	61	72

Import

HPQF3

“HI-RISE” / “QUIET” COMPENSATOR. TO BE USED IN CONJUNCTION WITH (2) PGQ – “HI-RISE” GUIDES
MAXIMUM WORKING PRESSURE 175 PSI @750°F, TRAVERSE: 3.0" COMPRESSION, 0.50" EXTENSION

150# PLATE STEEL FLANGED ENDS



SIZE (inches)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0075	0100	0125	0150	0200	0250	0300	0400
PRICE	453.00	471.00	529.00	582.00	795.00	1,078.00	1,387.00	1,964.00
WEIGHT (lbs)	8	15	15	23	25	38	50	68

Import

HPQT3 OR HPQW3

“HI-RISE” / “QUIET” COMPENSATOR. TO BE USED IN CONJUNCTION WITH (2) PGQ – “HI-RISE” GUIDES
MAXIMUM WORKING PRESSURE 175 PSI @750°F, TRAVERSE: 3.0" COMPRESSION, 0.50" EXTENSION

HPQT3-C/S SCH 40 THREAD ENDS, HPQW3-C/S SCH 40 WELD ENDS



SIZE (inches)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0075	0100	0125	0150	0200	0250	0300	0400
PRICE	410.00	446.00	477.00	528.00	633.00	857.00	1,094.00	1,572.00
WEIGHT (lbs)	6	12	12	18	20	30	40	54

Import

STYLE PGQ

“HI-RISE” VERTICAL SLIDE GUIDE, MAXIMUM TRAVERSE 6" MAXIMUM TEMPERATURE RATING 250°F
TO BE USED IN CONJUNCTION WITH COMPENSATORS*

SIZE (inches)	3/4" – 4" **
PRICE	179.00
WEIGHT (lbs)	14

** For larger pipe sizes or use with other expansion joints, consult factory.

RISER ANCHOR CLAMP

MASSIVELY STRONG RISER ANCHOR CLAMP
TO BE USED IN CONJUNCTION WITH COMPENSATORS

SIZE (inches)	2"	2-1/2"	3"	4"	5"	6"	8"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800
PRICE	397.00	397.00	397.00	576.00	592.00	608.00	608.00

Import

EXTERNALLY PRESSURED EXPANSION JOINTS

EXTERNALLY PRESSURIZED METRAGATOR 150# FLANGED OR GROOVED

EXTERNALLY PRESSURIZED EXPANSION JOINT FOR AXIAL MOVEMENT ONLY
MAXIMUM WORKING PRESSURE 150 PSI @ 700° F
STAINLESS STEEL BELLOW, CARBON STEEL HOUSING AND END FITTINGS



SIZE	2"			2-1/2"			3"			4"			5"		
AXIAL	4"	6"	8"	4"	6"	8"	4"	6"	8"	4"	6"	8"	4"	6"	8"
PRICE	1,338.00	1,457.00	1,601.00	1,484.00	1,635.00	1,751.00	1,539.00	1,724.00	1,885.00	1,783.00	1,990.00	2,245.00	2,117.00	2,496.00	2,534.00
WTlbs	34	47	50	40	45	58	56	60	74	76	89	110	113	136	165

SIZE	6"			8"			10"			12"		
AXIAL	4"	6"	8"	4"	6"	8"	4"	6"	8"	4"	6"	8"
PRICE	2,527.00	2,656.00	2,884.00	3,412.00	3,752.00	4,142.00	4,307.00	5,041.00	5,195.00	6,729.00	7,161.00	7,704.00
WT.(lbs)	144	160	200	201	230	283	248	285	341	315	315	428

Import

METRAGATOR WELD END SCHD 40

EXTERNALLY PRESSURIZED EXPANSION JOINT FOR AXIAL MOVEMENT ONLY
MAXIMUM WORKING PRESSURE 150 PSI @ 700° F
STAINLESS STEEL BELLOW, CARBON STEEL HOUSING AND END FITTINGS



SIZE	2"			2-1/2"			3"			4"			5"		
AXIAL	4"	6"	8"	4"	6"	8"	4"	6"	8"	4"	6"	8"	4"	6"	8"
PRICE	1,130.00	1,239.00	1,438.00	1,239.00	1,390.00	1,491.00	1,306.00	1,497.00	1,675.00	1,521.00	1,797.00	2,096.00	1,768.00	1,957.00	2,286.00
WT.lbs	23	33	45	31	36	46	40	47	63	61	75	94	95	112	142

SIZE	6"			8"			10"			12"		
AXIAL	4"	6"	8"	4"	6"	8"	4"	6"	8"	4"	6"	8"
PRICE	2,096.00	2,248.00	2,473.00	2,828.00	3,167.00	3,561.00	3,593.00	3,696.00	4,149.00	5,294.00	5,742.00	6,297.00
WT.(lbs)	116	139	177	151	185	238	189	227	300	231	273	325

Import

METRAGATOR 300# WELD OR FLANGED

EXTERNALLY PRESSURIZED EXPANSION JOINT FOR AXIAL MOVEMENT ONLY
MAXIMUM WORKING PRESSURE 300 PSI @ 700° F
STAINLESS STEEL BELLOW, CARBON STEEL HOUSING AND SCH 80 END FITTINGS



SIZE	2"		2-1/2"		3"		4"		5"	
AXIAL	4"	8"	4"	8"	4"	8"	4"	8"	4"	8"
WELD	1,329.00	2,168.00	1,391.00	2,360.00	1,670.00	2,678.00	2,066.00	3,375.00	2,260.00	3,606.00
FLANGED	1,644.00	2,567.00	1,824.00	2,791.00	2,192.00	3,207.00	2,617.00	3,878.00	2,823.00	4,174.00
WTlbs	34	50	40	58	56	74	76	110	113	165

SIZE	6"		8"		10"		12"	
AXIAL	4"	8"	4"	8"	4"	8"	4"	8"
WELD	2,479.00	4,338.00	3,781.00	6,275.00	4,687.00	7,932.00	6,506.00	10,112.00
FLANGED	3,039.00	4,904.00	4,712.00	7,206.00	6,238.00	9,470.00	8,527.00	12,132.00
WT.(lbs)	144	200	201	283	248	341	315	428

Import

SEISMIC METRAGATOR

EXTERNALLY PRESSURIZED EXPANSION JOINT FOR SEISMIC +/-4" MOVEMENT
MAXIMUM WORKING PRESSURE 150 PSI @ 700° F
STAINLESS STEEL BELLOW, CARBON STEEL HOUSING AND SCH 40 END FITTINGS



SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
WELD	2,254.00	2,501.00	3,199.00	4,016.00	5,548.00	7,704.00	12,175.00	18,463.00	24,617.00
FLANGED	2,371.00	2,633.00	3,368.00	4,227.00	5,842.00	8,108.00	12,814.00	19,437.00	25,914.00
WT.lbs	46-55	71-89	77-98	132-162	183-217	287-328	485-552	708-799	838-982

Import

METAL BELLOWS PUMP CONNECTOR / EXPANSION JOINT

METAL BELLOWS PUMP CONNECTOR / EXPANSION JOINT

MPTRVS (VANSTONE) FLANGES

MULTI-PLY STAINLESS STEEL PUMP CONNECTOR/EXPANSION JOINTS
150# C/S VANSTONED FLANGES WITH TIE RODS



SIZES	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"
FACE-TO-FACE	6"	6"	6"	6"	6"	6"	6"	8"	8"	8"	8"	10"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400	1600	1800
PRICE	388.00	509.00	701.00	874.00	1,053.00	1,259.00	1,837.00	2,284.00	3,092.00	3,670.00	4,990.00	6,191.00
WEIGHT (lbs)	11	15	16	23	30	34	59	82	104	124	200	211

Import

METRALOOP

MODEL MLT



STAINLESS STEEL HOSE AND BRAID LOOPS WITH **CARBON STEEL THREAD ENDS**

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300
MODEL MLT3 - ± 1.5" MVMT	346.00	469.00	482.00	570.00	624.00	748.00	917.00	1,385.00
MODEL MLT8 - ± 4" MVMT	365.00	484.00	509.00	602.00	697.00	828.00	1,038.00	1,571.00
WEIGHT (lbs)	2	2.5	4.5	6	8	13	22	30

For steam or condensate service, contact factory

Buy American

MODEL MLS*



BRONZE HOSE AND BRAID LOOPS WITH **FEMALE SWEAT ENDS**

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300	0400
MODEL MLS3 - ± 1.5" MVMT	300.00	394.00	617.00	790.00	929.00	1,537.00	1,992.00	2,116.00	3,150.00
MODEL MLS8 - ± 4" MVMT	350.00	456.00	642.00	805.00	1,056.00	1,567.00	2,196.00	2,239.00	3,705.00
WEIGHT (lbs)	2.5	2.5	3	4	4.5	12	18	24	31

*For UPC listing add 5% to standard price

Buy American

MODEL MLF



STAINLESS STEEL HOSE AND BRAID LOOPS WITH **150" PLATE CARBON STEEL FLANGES**

PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
MODEL MLF3 - ± 1.5" MVMT	910.00	1,008.00	1,487.00	1,935.00	2,642.00	3,222.00	6,280.00	10,183.00	13,150.00
MODEL MLF8 - ± 4" MVMT	1,055.00	1,120.00	1,623.00	2,105.00	3,038.00	3,686.00	7,138.00	11,513.00	14,877.00
WEIGHT (lbs)	19	30	38	61	96	139	280	455	668

For steam or condensate service, contact factory

Buy American

MODEL MLW



STAINLESS STEEL HOSE AND BRAID LOOPS WITH **SCH 40 CARBON STEEL WELD ENDS**

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250
MODEL MLW3 - ± 1.5" MVMT	331.00	419.00	443.00	521.00	618.00	726.00	843.00
MODEL MLW8 - ± 4" MVMT	355.00	447.00	489.00	528.00	686.00	814.00	980.00
WEIGHT (lbs)	2	2	3.5	5	7	11	19

PIPE SIZE	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0300	0400	0500	0600	0800	1000	1200
MODEL MLW3 - ± 1.5" MVMT	1,252.00	1,590.00	2,402.00	2,998.00	5,463.00	8,993.00	12,148.00
MODEL MLW8 - ± 4" MVMT	1,452.00	2,154.00	2,502.00	3,326.00	6,268.00	9,785.00	14,218.00
WEIGHT (lbs)	26	45	75	116	235	402	586

For steam or condensate service, contact factory

Buy American

MODEL MLG



STAINLESS STEEL HOSE AND BRAID LOOPS WITH **SCH 40 CARBON STEEL GROOVED ENDS**

PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
MODEL MLG3 - ± 1.5" MVMT	854.00	1,024.00	1,454.00	1,708.00	2,555.00	3,065.00	6,216.00	9,540.00	12,024.00
MODEL MLG8 - ± 4" MVMT	970.00	1,142.00	1,581.00	1,840.00	2,910.00	3,369.00	6,640.00	10,610.00	14,147.00
WEIGHT (lbs)	13	22	30	51	82	126	254	429	619

Buy American

FOR NESTED METRALOOPS, STEAM AND CONDENSATE METRALOOPS, LARGER AND CUSTOM LOOP SIZES, PLEASE CONTACT FACTORY

METRALOOP

IAPMO CERTIFIED DWV METRALOOP – FLANGED

(IAPMO LISTED POOPLOOPS)

STAINLESS STEEL HOSE AND BRAID LOOPS WITH STAINLESS STEEL **FLANGES**

PIPE SIZE	4"	5"	6"	8"	10"	12"
SIZE CODE	0400	0500	0600	0800	1000	1200
MODEL MLFILP8 - ± 4" MVMT	7,121.00	9,641.00	11,053.00	17,081.00	24,820.00	33,643.00
MODEL MLFILP16 - ± 8" MVMT	7,346.00	9,940.00	11,569.00	17,968.00	25,881.00	35,893.00
WEIGHT (lbs)	61	96	139	280	455	668

IAPMO CERTIFIED DWV METRALOOP – NO HUB

(IAPMO LISTED POOPLOOPS)

STAINLESS STEEL HOSE AND BRAID LOOPS WITH STAINLESS STEEL **WELD ENDS**

PIPE SIZE	4"	5"	6"	8"	10"	12"
SIZE CODE	0400	0500	0600	0800	1000	1200
MODEL MLWILP8 - ± 4" MVMT	6,693.00	9,164.00	10,393.00	15,434.00	22,344.00	30,185.00
MODEL MLWILP16 - ± 8" MVMT	6,917.00	9,463.00	10,910.00	16,321.00	23,403.00	32,433.00
WEIGHT (lbs)	45	75	116	235	402	586

GAS METRALOOPS (CSA/AGA Approved ANSI – 536)

CARBON STEEL ENDS, S/S HOSE AND BRAID ± 4" MOVEMENT

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	4050	4075	4100	4125	4150	4200	4250	4300	4400
MODEL MLACW - WELD	736.00	870.00	942.00	1,065.00	1,223.00	1,804.00	1,983.00	2,440.00	2,691.00
MODEL MLACT - THREAD	560.00	665.00	843.00	896.00	1,086.00	1,623.00	1,797.00	2,358.00	2,673.00
WEIGHT (lbs)	2	2.5	4.5	6	8	13	22	30	51

Buy American

PRESS FIT COPPER METRALOOP*

BRONZE HOSE AND BRAID LOOPS WITH **COPPER PRO PRESS ENDS**



PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300	0400
MODEL MLSPF8 - ± 4" MVMT	370.00	475.00	747.00	930.00	1,281.00	1,802.00	2,514.00	2,933.00	4,445.00
WEIGHT (lbs)	2.5	2.5	3	4	4.5	12	18	24	31

*For UPC listing add 5% to standard price

Buy American

PRESS READY COPPER METRALOOP*

BRONZE HOSE AND BRAID LOOPS WITH **COPPER TUBE ENDS**



PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300	0400
MODEL MLSPR8 - ± 4" MVMT	352.00	452.00	711.00	886.00	1,220.00	1,716.00	2,394.00	2,793.00	4,233.00
WEIGHT (lbs)	2.5	2.5	3	4	4.5	12	18	24	31

*For UPC listing add 5% to standard price

Buy American

FIRELOOP*

WET AND DRY SPRINKLER SYSTEMS

MODEL MLUTFM8 (± 4 inch movement)



STAINLESS STEEL HOSE AND BRAID LOOPS WITH SCH 40 CARBON STEEL THREAD ENDS

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SIZE CODE	0050	0075	0100	0125	0150	0200	0250	0300	0400
± 4" MOVEMENT	346.00	458.00	479.00	564.00	657.00	1,045.00	1,236.00	1,617.00	2,051.00
WEIGHT (lbs)	5	5	8	10	14	18	29	43	46

MODEL MLUGFM8 (± 4 inch movement)



STAINLESS STEEL HOSE AND BRAID LOOPS WITH SCH 40 CARBON STEEL GROOVED ENDS

PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800
± 4" MOVEMENT	1,183.00	1,314.00	1,681.00	2,110.00	2,916.00	4,048.00	6,398.00
WEIGHT (lbs)	18	29	43	60	99	150	286

MODEL MLUGFM16 (± 8 inch movement)



STAINLESS STEEL HOSE AND BRAID LOOPS WITH SCH 40 CARBON STEEL GROOVED ENDS

PIPE SIZE	2"	2-1/2"	3"	4"	5"	6"	8"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800
± 8" MOVEMENT	1,266.00	1,409.00	1,800.00	2,260.00	3,121.00	4,292.00	7,770.00
WEIGHT (lbs)	15	24	36	59	94	140	296

SEISMIC BREAKAWAY HANGER

ALUMINUM BODY, 304 STAINLESS STEEL PIN

MODEL	SBH30	SBH45	SBH65	SBH80	SHB130	SBH200	SBH400	SBH500	SBH650	SBH725
PRICE	262.00	302.00	341.00	381.00	420.00	460.00	510.00	563.00	611.00	824.00
WEIGHT (lbs)	1.4	1.4	1.4	1.5	2.8	3.2	3.4	3.4	3.6	4.0

BREAKAWAY SADDLE

SADDLE AND CLEVIS HANGER

MODEL	BACSADL250	BACSADL350	BACSADL450	BACSADL550	BACSADL650	BACSADL850
PRICE	50.00	71.00	81.00	111.00	137.00	206.00
WEIGHT (lbs)	WOA	WOA	WOA	WOA	WOA	WOA

V-LOOPS

MODEL VLT

STAINLESS STEEL HOSE AND BRAID WITH CARBON STEEL THREAD ENDS



	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
±2" Movement	300.00	408.00	422.00	476.00	517.00	625.00	779.00	1,115.00
±3" Movement	309.00	414.00	433.00	488.00	545.00	658.00	828.00	1,190.00
±4" Movement	318.00	421.00	440.00	501.00	576.00	691.00	881.00	1,288.00
Weight (lbs)	2	3	5	7	9	15	22	29

For steam and condensate service contact factory.

Buy American

MODEL VLS

BRONZE HOSE AND BRAID LOOPS WITH FEMALE SWEAT ENDS



	1/2"	3/4"	1"	1-1/4"	1- 1/2"	2"	2-1/2"	3"	4"
±2" Movement	275.00	343.00	537.00	679.00	806.00	1,265.00	1,712.00	1,802.00	2,563.00
±3" Movement	299.00	382.00	563.00	710.00	880.00	1,322.00	1,810.00	1,872.00	2,671.00
±4" Movement	321.00	419.00	589.00	741.00	952.00	1,373.00	1,906.00	1,942.00	2,779.00
Weight (lbs)	2	4	5	7	9	15	18	24	39

For steam and condensate service contact factory.

Buy American

MODEL VLF

STAINLESS STEEL HOSE AND BRAID LOOPS WITH 150" PLATE CARBON STEEL FLANGES



	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
±2" Movement	797.00	898.00	1,256.00	1,678.00	2,232.00	2,797.00	5,780.00	9,370.00	12,098.00
±3" Movement	862.00	949.00	1,310.00	1,752.00	2,399.00	2,999.00	6,171.00	9,980.00	12,892.00
±4" Movement	925.00	1,001.00	1,370.00	1,828.00	2,563.00	3,200.00	6,568.00	10,593.00	13,685.00
Weight (lbs)	19-20-21	27-28-30	34-36-37	51-54-56	73-76-78	109-113-118	217-228-238	352-369-385	500-523-543

For steam and condensate service contact factory.

Buy American

MODEL VLW

STAINLESS STEEL HOSE AND BRAID LOOPS WITH SCH 40 CARBON STEEL WELD ENDS



	1/2"	3/4"	1"	1-1/4"	1- 1/2"	2"	2-1/2"
±2" Movement	323.00	390.00	407.00	456.00	538.00	636.00	756.00
±3" Movement	340.00	406.00	429.00	459.00	566.00	673.00	817.00
±4" Movement	359.00	421.00	449.00	463.00	596.00	712.00	877.00
Weight (lbs)	2	3	4	6	8	13	19

	3"	4"	5"	6"	8"	10"	12"
±2" Movement	1,025.00	1,380.00	2,025.00	2,601.00	5,022.00	8,275.00	11,177.00
±3" Movement	1,142.00	1,624.00	2,070.00	2,746.00	5,395.00	8,638.00	12,635.00
±4" Movement	1,226.00	1,869.00	2,115.00	2,889.00	5,767.00	9,002.00	14,095.00
Weight (lbs)	22-24-25	35-38-40	52-54-57	86-90-94	172-184-193	300-316-332	418-441-461

For steam and condensate service contact factory.

Buy American

MODEL VLG

STAINLESS STEEL HOSE AND BRAID LOOPS WITH SCH 40 CARBON STEEL GROOVED ENDS



	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
±2" Movement	749.00	917.00	1,227.00	1,486.00	2,155.00	2,662.00	5,720.00	8,781.00	11,173.00
±3" Movement	811.00	968.00	1,283.00	1,539.00	2,306.00	2,791.00	5,913.00	9,272.00	12,161.00
±4" Movement	849.00	1,020.00	1,332.00	1,594.00	2,456.00	2,923.00	6,109.00	9,763.00	13,147.00
Weight (lbs)	13-14-15	19-21-22	25-27-29	43-45-47	59-62-64	96-100-104	192-203-212	326-343-359	451-474-494

For steam and condensate service contact factory.

Buy American

EXPANSION JOINTS

MODEL MNLC EXPANSION JOINTS

STAINLESS STEEL BELLOWS

NON-CONTROLLED – 50, 150, & 300 PSI PRESSURE CLASSES



Size	Length	Press. Rating	C/S Flgd Ends*	Sch.40 C/S Weld Ends	S/S Liner Add	C/S Cover Add
2"	Short	50	766.00	958.00	281.00	246.00
		150	773.00	926.00	281.00	246.00
		300	975.00	1,054.00	281.00	246.00
	Long	50	776.00	973.00	314.00	281.00
		150	784.00	983.00	314.00	281.00
		300	1,037.00	1,067.00	314.00	281.00
2.5"	Short	50	817.00	967.00	285.00	246.00
		150	822.00	975.00	285.00	246.00
		300	1,002.00	1,079.00	285.00	246.00
	Long	50	849.00	978.00	314.00	281.00
		150	855.00	988.00	314.00	281.00
		300	1,080.00	1,111.00	314.00	281.00
3"	Short	50	892.00	1,056.00	281.00	246.00
		150	1,007.00	1,059.00	281.00	246.00
		300	1,008.00	1,156.00	281.00	246.00
	Long	50	905.00	1,063.00	314.00	281.00
		150	908.00	1,065.00	314.00	281.00
		300	1,090.00	1,102.00	314.00	281.00
4"	Short	50	1,016.00	1,233.00	315.00	357.00
		150	1,027.00	1,237.00	315.00	357.00
		300	1,175.00	1,352.00	315.00	357.00
	Long	50	1,075.00	1,287.00	341.00	392.00
		150	1,082.00	1,293.00	341.00	392.00
		300	1,265.00	1,390.00	341.00	392.00
5"	Short	50	1,136.00	1,438.00	408.00	381.00
		150	1,147.00	1,446.00	408.00	381.00
		300	1,602.00	1,779.00	408.00	381.00
	Long	50	1,212.00	1,486.00	442.00	408.00
		150	1,222.00	1,499.00	442.00	408.00
		300	1,777.00	1,520.00	442.00	408.00
6"	Short	50	1,200.00	1,546.00	440.00	424.00
		150	1,205.00	1,554.00	440.00	424.00
		300	1,628.00	1,694.00	440.00	424.00
	Long	50	1,296.00	1,634.00	485.00	471.00
		150	1,298.00	1,641.00	485.00	471.00
		300	1,792.00	1,759.00	485.00	471.00
8"	Short	50	1,504.00	1,813.00	568.00	522.00
		150	1,514.00	1,825.00	568.00	522.00
		300	2,247.00	2,072.00	568.00	522.00
	Long	50	1,624.00	1,931.00	636.00	568.00
		150	1,629.00	1,936.00	636.00	568.00
		300	2,592.00	2,281.00	636.00	568.00
10"	Short	50	1,763.00	2,105.00	618.00	586.00
		150	1,773.00	2,120.00	618.00	586.00
		300	3,216.00	2,988.00	618.00	586.00
	Long	50	2,060.00	2,391.00	695.00	637.00
		150	2,065.00	2,574.00	695.00	637.00
		300	3,761.00	3,297.00	695.00	637.00
12"	Short	50	2,015.00	2,486.00	715.00	719.00
		150	2,480.00	2,651.00	715.00	719.00
		300	3,914.00	3,631.00	715.00	719.00
	Long	50	2,255.00	2,689.00	784.00	784.00
		150	2,923.00	3,127.00	784.00	784.00
		300	5,049.00	4,557.00	784.00	784.00

Size	Length	Press. Rating	C/S Flgd Ends*	Sch.40 C/S Weld Ends	S/S Liner Add	C/S Cover Add
14"	Short	50	3,124.00	2,632.00	837.00	830.00
		150	3,758.00	3,243.00	837.00	830.00
		300	8,614.00	5,879.00	837.00	830.00
	Long	50	3,807.00	3,083.00	892.00	862.00
		150	4,420.00	3,925.00	892.00	862.00
		300	9,912.00	7,539.00	892.00	862.00
16"	Short	50	3,172.00	2,787.00	899.00	920.00
		150	4,641.00	4,278.00	899.00	920.00
		300	9,898.00	7,102.00	899.00	920.00
	Long	50	4,462.00	4,086.00	932.00	989.00
		150	5,837.00	5,645.00	932.00	989.00
		300	12,161.00	9,681.00	932.00	989.00
18"	Short	50	4,581.00	3,502.00	947.00	1,032.00
		150	5,704.00	5,191.00	947.00	1,032.00
		300	12,736.00	8,269.00	947.00	1,032.00
	Long	50	5,199.00	4,331.00	1,057.00	1,084.00
		150	7,005.00	6,574.00	1,057.00	1,084.00
		300	14,869.00	10,661.00	1,057.00	1,084.00
20"	Short	50	4,872.00	4,959.00	1,033.00	1,154.00
		150	6,260.00	6,340.00	1,033.00	1,154.00
		300	15,724.00	10,274.00	1,033.00	1,154.00
	Long	50	5,924.00	5,501.00	1,114.00	1,235.00
		150	7,599.00	7,726.00	1,114.00	1,235.00
		300	18,273.00	12,934.00	1,114.00	1,235.00
22"	Short	50	6,313.00	5,916.00	1,167.00	1,321.00
		150	7,766.00	7,880.00	1,167.00	1,321.00
		300	18,850.00	11,419.00	1,167.00	1,321.00
	Long	50	7,298.00	7,358.00	1,325.00	1,486.00
		150	9,413.00	9,700.00	1,325.00	1,486.00
		300	20,694.00	13,257.00	1,325.00	1,486.00
24"	Short	50	7,298.00	7,320.00	1,447.00	1,614.00
		150	8,730.00	8,837.00	1,447.00	1,614.00
		300	21,388.00	12,054.00	1,447.00	1,614.00
	Long	50	7,995.00	8,028.00	1,651.00	1,863.00
		150	10,062.00	10,260.00	1,651.00	1,863.00
		300	24,446.00	15,317.00	1,651.00	1,863.00

*Note: 50# Class Bellows include 150# A36 Plate Steel Flanges

150# Class Bellows include 150# A105 Forged Steel Flanges

300# Class Bellows include 300# A105 Forged Steel Flanges

LARGER SIZES and MATERIALS OF CONSTRUCTION ARE AVAILABLE

Buy American

EXPANSION JOINTS

MODEL MN EXPANSION JOINTS

STAINLESS STEEL BELLOWS – HYDROFORMED, HIGH CORRUGATION
NON-CONTROLLED – 50# AND 150# PRESSURE CLASSES



Size	No. of convolutions	50 lb Class Base Price		150 lb Class Base Price		Internal SSteel Liner Add	External Steel Covers Add	Size	No. of convolutions	50 lb Class Base Price		150 lb Class Base Price		Internal SSteel Liner Add	External Steel Covers Add	
		150-lb Steel Flngs	Std. Weld Ends	150-lb Steel Flngs	Std. Weld Ends					150-lb Steel Flngs	Std. Weld Ends	150-lb Steel Flngs	Std. Weld Ends			
3"	2							12"	2							
	3								3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
									9							
4"	2								14"	2						
	3							3								
	4							4								
	5							5								
	6							6								
	7							7								
	8							8								
								9								
5"	2							16"		2						
	3									3						
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
									9							
6"	2								18"	2						
	3									3						
	4							4								
	5							5								
	6							6								
	7							7								
	8							8								
	9							9								
	10							10								
	8"	2								20"	2					
3								3								
4								4								
5								5								
6								6								
7								7								
8								8								
								9								
10"	2							10								
	3															
	4															
	5															
	6															
	7															
	8															

POA

POA

Refer to separate table for tie rod and anchor base prices.

Buy American

EXPANSION JOINTS

MODEL MC EXPANSION JOINTS

STAINLESS STEEL BELLOWS – CAST IRON RING-CONTROLLED



Size	No. of convolutions	Base Price 150-lb Steel Flanges	300 lb Steel Flngs Add	Base Price Std. Weld Ends	Internal SSteel Liner Add	External Steel Covers Add
3"	2	POA				
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	4"					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
5"		2	POA			
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	6"	2				
3						
4						
5						
6						
7						
8						
9						
10						
8"		2	POA			
3						
4						
5						
6						
7						
8						
9						
10						

Size	No. of convolutions	Base Price 150-lb Steel Flanges	300-lb Steel Flngs Add	Base Price Std. Weld Ends	Internal SSteel Liner Add	External Steel Covers Add
10"	2	POA				
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	12"					
3						
4						
5						
6						
7						
8						
9						
10						
14"		2	POA			
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	16"	2				
3						
4						
5						
6						
7						
8						
18"		2	POA			
3						
4						
5						
6						
7						
8						
20"	2	POA				
	3					
	4					
	5					
	6					
	7					
	8					

Seven or more convolutions, cover required for all sizes.

Buy American

EXPANSION JOINTS

TIE RODS OR LIMIT STOPS

CARBON STEEL

TABLE A

Quote size corresponding to size of bellows when required for expansion joints with oversize bellows. If working pressure exceeds that listed at top of column, regardless of amount, quote from next higher pressure column.

SIZE (inches)	FLANGED ENDS						WELDED ENDS					
	UP TO 50 PSIG		UP TO 150 PSIG		UP TO 300 PSIG		UP TO 50 PSIG		UP TO 150 PSIG		UP TO 300 PSIG	
	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE
3	504.00	659.00	508.00	691.00	580.00	755.00	540.00	726.00	545.00	755.00	616.00	825.00
4	540.00	715.00	551.00	755.00	616.00	838.00	580.00	799.00	590.00	806.00	647.00	870.00
5	580.00	755.00	593.00	826.00	659.00	901.00	616.00	844.00	630.00	870.00	709.00	967.00
6	616.00	653.00	639.00	895.00	713.00	976.00	635.00	915.00	654.00	1,136.00	727.00	1,266.00
8	656.00	868.00	693.00	976.00	758.00	1,050.00	752.00	1,015.00	877.00	1,216.00	942.00	1,404.00
10	689.00	938.00	743.00	1,116.00	819.00	1,190.00	975.00	1,237.00	1,116.00	1,548.00	1,164.00	1,774.00
12	721.00	1,045.00	799.00	1,263.00	870.00	1,346.00	1,190.00	1,524.00	1,431.00	1,958.00	1,449.00	2,244.00
14	752.00	1,190.00	868.00	1,408.00	1,093.00	1,639.00	1,263.00	1,646.00	1,449.00	2,097.00	1,545.00	2,398.00
16	794.00	1,408.00	938.00	1,548.00	1,228.00	1,829.00	1,331.00	1,799.00	1,688.00	2,292.00	1,979.00	2,596.00
18	854.00	1,535.00	1,093.00	1,695.00	1,447.00	2,075.00	1,404.00	1,958.00	1,886.00	2,640.00	2,176.00	3,080.00
20	975.00	1,717.00	1,346.00	2,075.00	1,695.00	2,444.00	1,486.00	2,210.00	2,264.00	2,897.00	2,501.00	3,272.00

Buy American

WELDING ENDS, ANCHOR BASES

TABLE B

NOMINAL PIPE SIZE (inches)	Add for Extra Strong Welding Ends	Add for 300-Lb. Flanges	Add for Anchor Bases	Add For Combination Nipple & Flange Construction
3	81.00	125.00	274.00	271.00
4	86.00	159.00	276.00	297.00
5	109.00	306.00	328.00	308.00
6	169.00	351.00	338.00	375.00
8	216.00	520.00	387.00	472.00
10	247.00	828.00	494.00	612.00
12	280.00	972.00	511.00	635.00
14	328.00	1,774.00	606.00	647.00
16	346.00	2,108.00	644.00	806.00
18	366.00	3,316.00	689.00	868.00
20	387.00	4,680.00	972.00	1,038.00

FOR LARGER SIZES AND ACCESSORIES NOT LISTED – CONTACT FACTORY
SEE COVER SHEET FOR TERMS OF SALE.

Buy American

EXHAUST JOINTS

MODEL EX10

EXHAUST PIPE EXPANSION JOINTS, 150# FIXED FLANGES

SIZE	4"	5"	6"	8"	10"	12"
SIZE CODE	0400	0500	0600	0800	1000	1200
MODEL EX10	1,268.00	1,309.00	1,394.00	1,813.00	2,021.00	2,302.00
S/S FLOW LINER ADD	308.00	392.00	453.00	533.00	612.00	675.00
WEIGHT (LBS)	17	19	23	30	38	54

SIZE	14"	16"	18"	20"	22"	24"
SIZE CODE	1400	1600	1800	2000	2200	2400
MODEL EX10	2,860.00	3,140.00	3,698.00	4,327.00	4,675.00	5,302.00
S/S FLOW LINER ADD	770.00	834.00	928.00	1,003.00	1,053.00	1,112.00
WEIGHT (LBS)	64	75	79	91	95	121

MODEL EX20

EXHAUST PIPE EXPANSION JOINTS, 150# FLOATING FLANGES

SIZE	4"	5"	6"	8"	10"	12"
SIZE CODE	0400	0500	0600	0800	1000	1200
MODEL EX20	1,507.00	1,563.00	1,673.00	2,093.00	2,372.00	2,650.00
S/S FLOW LINER ADD	308.00	392.00	453.00	533.00	612.00	675.00
WEIGHT (LBS)	18	20	24	32	40	56

SIZE	14"	16"	18"	20"	22"	24"
SIZE CODE	1400	1600	1800	2000	2200	2400
MODEL EX20	3,350.00	3,768.00	4,465.00	5,162.00	5,582.00	6,278.00
S/S FLOW LINER ADD	770.00	834.00	928.00	1,003.00	1,053.00	1,112.00
WEIGHT (LBS)	67	78	82	95	99	126

MODEL EX30

EXHAUST PIPE EXPANSION JOINTS, 150# FIXED X FLOATING FLANGES

SIZE	4"	5"	6"	8"	10"	12"
SIZE CODE	0400	0500	0600	0800	1000	1200
MODEL EX30	1,394.00	1,436.00	1,535.00	1,954.00	2,162.00	2,442.00
S/S FLOW LINER ADD	308.00	392.00	453.00	533.00	612.00	655.00
WEIGHT (LBS)	17	20	23	31	39	55

SIZE	14"	16"	18"	20"	22"	24"
SIZE CODE	1400	1600	1800	2000	2200	2400
MODEL EX30	3,069.00	3,488.00	4,047.00	4,743.00	5,092.00	5,790.00
S/S FLOW LINER ADD	770.00	834.00	928.00	1,003.00	1,053.00	1,112.00
WEIGHT (LBS)	66	77	80	93	97	124

MODEL EX40

EXHAUST PIPE EXPANSION JOINTS, 150# SCH 40 WELD ENDS

SIZE	4"	5"	6"	8"	10"	12"
SIZE CODE	0400	0500	0600	0800	1000	1200
MODEL EX40	1,227.00	1,268.00	1,394.00	1,744.00	1,883.00	2,093.00
S/S FLOW LINER ADD	308.00	392.00	453.00	533.00	612.00	675.00
WEIGHT (LBS)	7	9	11	14	19	24

SIZE	14"	16"	18"	20"	22"	24"
SIZE CODE	1400	1600	1800	2000	2200	2400
MODEL EX40	2,720.00	2,930.00	3,418.00	3,768.00	4,184.00	4,603.00
S/S FLOW LINER ADD	770.00	834.00	928.00	1,003.00	1,053.00	1,112.00
WEIGHT (LBS)	27	34	41	47	53	62

PIPE ALIGNMENT GUIDES

NYLON GUIDES

3/4" FURNISHED WITH 3" X 3" BRACKETS. 1" + 1-1/4" WITH 4" X 5" BRACKETS

PIPE SIZE	3/4"	1"	1-1/4"
PRICE	66.00	70.00	71.00
WEIGHT (lbs)	1	1	1

Buy American

COPPER ANCHORS

3/4" FURNISHED WITH 3" X 3" BRACKETS. 1" + 1-1/4" WITH 4" X 5" BRACKETS

PIPE SIZE	3/4"	1"	1-1/4"
PRICE	70.00	71.00	72.00
WEIGHT (lbs)	1	1	1

Buy American

STYLE IV

MODEL NO.	23	24	25	26	27	28	29	30	31	32	33	34	35	36
PRICE/STEEL	129.00	133.00	148.00	163.00	216.00	270.00	444.00	523.00	642.00	774.00	926.00	1,024.00	1,157.00	1,265.00
WEIGHT (lbs)	6	8	9	12	22	36	45	52	55	65	95	115	135	150
PRICE/COPPER	136.00	152.00	168.00	205.00	255.00	301.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Buy American

MODEL SELECTION CHART - IV GUIDES							
INSULATION THICKNESS (INCHES)							
PIPE SIZE (INCHES)	0" TO 1"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.
1/2"	23	23	24	25	26	26	27
3/4"	23	24	25	26	26	27	27
1"	23	24	25	26	26	27	27
1-1/4"	23	24	25	26	26	27	27
1-1/2"	24	24	25	26	26	27	27
2"	24	25	26	26	27	27	28
2-1/2"	25	25	26	26	27	27	28
3"	25	26	26	27	27	28	28
4"	26	26	27	27	28	28	29
5"	27	27	27	28	28	29	30
6"	27	27	28	28	29	30	30
8"	28	28	29	30	30	31	31
10"	30	30	30	31	31	32	32
12"	31	31	31	32	32	33	33
14"	32	32	32	32	33	33	34
16"	33	33	33	33	34	34	35
18"	34	34	34	34	35	35	36
20"	35	35	35	35	36	36	36
24"	36	36	36	36	N	N	N

PIPE ALIGNMENT GUIDES

SLIDE GUIDES

4" TRAVERSE, PTFE SLIDES

SIZE	1" thru 4"	5" thru 8"	10" thru 24"
MODEL SGW – Weld Down Base	245.00	257.00	349.00
MODEL SGB – Bolt Down Base	259.00	280.00	373.00
WEIGHT (lbs) Weld/Bolt	2.5 / 4	4/5	12/16

OPTIONAL STYLES AND SIZES AVAILABLE – CONTACT FACTORY

Buy American

10" TRAVERSE, PTFE SLIDES

SIZE	1" thru 4"	5" thru 8"	10" thru 24"
MODEL SGW – Weld Down Base	301.00	319.00	441.00
MODEL SGB – Bolt Down Base	316.00	335.00	469.00
WEIGHT (lbs) Weld/Bolt	6/7	8/9	22/26

OPTIONAL STYLES AND SIZES AVAILABLE – CONTACT FACTORY

Buy American

GLIDE RISER GUIDE

"HI-RISE" VERTICAL SLIDE GUIDE, MAXIMUM TRAVERSE 6"
MAXIMUM TEMPERATURE RATING 250° F

SIZE (inches)	3/4" – 4" *
PART NUMBER	PGQ
PRICE	168.00
WEIGHT (lbs)	14

* For larger pipe sizes, consult factory.

Import

I-BEAM PIPE ANCHOR

ANCHOR W/BASE FOR WELDING TO PIPE

MIN. DIA.	ITEM	12"	18"	24"	36"	48"
2	PAI-1	1,754.00	1,778.00	1,807.00	1,855.00	1,913.00
2.5	PAI-2	1,820.00	1,855.00	1,877.00	1,955.00	2,027.00
3	PAI-3	1,938.00	1,992.00	2,051.00	2,175.00	2,289.00
3	PAI-4	1,970.00	2,027.00	2,085.00	2,212.00	2,325.00
4	PAI-5	2,201.00	2,244.00	2,289.00	2,366.00	2,467.00
4	PAI-6	2,325.00	2,393.00	2,448.00	2,580.00	2,624.00
6	PAI-7	2,350.00	2,439.00	2,527.00	2,703.00	2,887.00
6	PAI-8	2,661.00	2,771.00	2,872.00	3,081.00	3,286.00
6	PAI-9	2,940.00	3,056.00	3,172.00	3,398.00	3,630.00
8	PAI-10	3,134.00	3,263.00	3,398.00	3,661.00	3,928.00
8	PAI-11	3,321.00	3,470.00	3,619.00	3,919.00	4,208.00
10	PAI-12	3,594.00	3,810.00	4,031.00	4,455.00	4,878.00
10	PAI-13	3,892.00	4,189.00	4,491.00	5,073.00	5,670.00
10	PAI-14	4,145.00	4,474.00	4,797.00	5,460.00	6,110.00
10	PAI-15	4,227.00	4,532.00	4,816.00	5,415.00	6,010.00
16	PAI-16	4,717.00	5,105.00	5,496.00	6,260.00	7,043.00

Buy American

SILENT CHECK VALVES

BSN

FEMALE SCREW ENDS, BRONZE BODY

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
SIZE CODE	0050	0075	0100	0125	0150	0200
PRICE	59.00	70.00	81.00	106.00	133.00	246.00
WEIGHT (lbs)	1/2	1/2	1	1	1-1/2	2

BSNPW

FEMALE SCREW ENDS, LEAD FREE BRONZE BODY



SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
SIZE CODE	0050	0075	0100	0125	0150	0200
PRICE	165.00	207.00	266.00	340.00	375.00	521.00
WEIGHT (lbs)	1/2	1/2	1	1	1-1/2	2

STYLE 700

WAFER STYLE – 125/250# - CAST IRON BODY



SIZE	2"	2-1/2"	3"	4"	5"	6"	8" *	10" *
MODEL NUMBER	702	7025	703	704	705	706	708	710
CVODINC***	368.00	414.00	432.00	577.00	848.00	1,019.00	1,814.00	2,768.00
W/ STAINLESS STEEL TRIM	468.00	526.00	549.00	737.00	1,080.00	1,295.00	2,306.00	3,519.00
W/ S/S & BUNA TRIM **	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	6	8	11	20	29	44	79	120

* 125 lb RATING ONLY

** BUNA TRIM REQUIRED FOR BUBBLE TIGHT SEAL

*** DUCTILE IRON NICKEL COATED TRIM W/EPDM O-RING FOR BUBBLE TIGHT SEAL

Import

STYLE 700

WAFER – 250# - CAST IRON BODY



SIZE	8"	10"
MODEL NUMBER	758	760
W/STAINLESS STEEL TRIM	POA	POA
W/ S/S & BUNA TRIM **	POA	POA
WEIGHT (lbs)	84	93

**BUNA TRIM REQUIRED FOR BUBBLE TIGHT SEAL

Import

SILENT CHECK VALVES

STYLE 900



GLOBE PATTERN – 125# - CAST IRON BODY

SIZE	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
MODEL NUMBER	9025	903	904	905	906	908	910	912	914	916
CVODINC***	739.00	821.00	1,058.00	1,438.00	1,735.00	2,684.00	3,954.00	6,283.00	-	-
W/STAINLESS STEEL TRIM	944.00	1,045.00	1,343.00	1,827.00	2,203.00	3,410.00	5,024.00	7,983.00	POA	POA
W/ S/S & BUNA TRIM **	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	21	27	43	64	81	140	218	298	408	513

** BUNA TRIM REQUIRED FOR BUBBLE TIGHT SEAL

*** DUCTILE IRON NICKEL COATED TRIM W/EPDM O-RING VALVE FOR BUBBLE TIGHT SEAL
SIZES 18" AND LARGER – CONTACT FACTORY

Import

STYLE 900



GLOBE PATTERN – 250# - CAST IRON BODY

SIZE	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
MODEL NUMBER	9525	953	954	955	956	958	960	962	964	966
W/STAINLESS STEEL TRIM	1,556.00	1,663.00	2,187.00	2,747.00	3,521.00	6,102.00	8,824.00	9,268.00	18,796.00	26,760.00
W/ S/S & BUNA TRIM **	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	30	33	58	143	102	180	265	401	510	700

** BUNA TRIM REQUIRED FOR BUBBLE TIGHT SEAL

VALVE SIZES 18" AND LARGER – CONTACT FACTORY

Import

CHECK VALVES

CVXXK VALVES

WAFER SPLIT DISC CHECK VALVES

ANSI 125 – 2" TO 12"

BODY-CAST IRON, DISC 316S/S, SEAT – EPDM, SHAFT & SPRING – 316S/S



SIZE	2"	2-1/2"	3"	4"	5"	6"	8"
MODEL CVXXK	317.00	362.00	393.00	503.00	767.00	782.00	1,174.00
WEIGHT (lbs)	4	6	8	11	14	20	34

SIZE	10"	12"	14"	16"	18"	20"	24"
MODEL CVXXK	2,268.00	3,061.00	5,590.00	7,787.00	POA	POA	POA
WEIGHT (lbs)	54	92	139	184	230	291	590

Import

ANSI 125 – 14" TO 30"

BODY-CAST IRON/DISC-ELECTROLESS NICKEL COATED DUCTILE IRON

SEAL-NITRILE (BUNA-n) / SHAFT & SPRING-316S/S

SIZE	14"	16"	18"	20"	24"	30"
PRICE	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	170	225	280	390	590	1050

Import



STYLE 700

WAFER STYLE SILENT CHECK VALVE – 125# - CAST IRON BODY



SIZE	2"	2-1/2"	3"	4"	5"	6"	8" *	10" *
MODEL CVROSSFM	702	7025	703	704	705	706	708	710
STAINLESS STEEL TRIM	476.00	537.00	560.00	752.00	1,100.00	1,322.00	2,351.00	3,584.00
WEIGHT (lbs)	6	8	11	20	29	44	79	120

Import



STYLE 900

GLOBE STYLE SILENT CHECK VALVE – 125# - CAST IRON BODY



SIZE	2-1/2"	3"	4"	5"	6"	8" *	10"	12"
MODEL CVROSSFM	9025	903	904	905	906	908	910	912
STAINLESS STEEL TRIM	960.00	1,063.00	1,371.00	1,863.00	2,244.00	3,474.00	5,119.00	8,133.00
WEIGHT (lbs)	21	27	43	64	81	140	218	298

Import



METRAVENT*

AUTOMATIC AIR VENT



MODEL NUMBER	SIZE CODE	SIZE	PRICE	WEIGHT (lbs)
MVC15	0050 OR 0075	1/2" OR 3/4"	212.00	5-1/2
MVC15	0100	1"	227.00	5-1/2
MVC30	0050 OR 0075	1/2" OR 3/4"	350.00	7-1/2
MVC30	0100	1"	364.00	7-1/2

Import

Only MVC-15 is FM Approved

CHECK VALVES

BUTTERFLY VALVES



DESIGN CONDITIONS – 200 PSI, EPDM SEAT - 40°F TO 250°F, DINC DISC

DINC Disc, EPDM Seat, 416ss Stems, Cast Iron Wafer Body									
STYLE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
10 POS/LEVER	161.00	171.00	197.00	246.00	307.00	315.00	-	-	-
GEAR OPERATOR	-	-	-	-	-	-	795.00	1,081.00	1,375.00

Import

DINC Disc, EPDM Seat, 416ss Stems, Cast Iron Lug Body									
STYLE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
10 POS/LEVER	169.00	184.00	199.00	267.00	324.00	326.00	-	-	-
GEAR OPERATOR	-	-	-	-	-	-	830.00	1,110.00	1,523.00

Import

SHIPPING WEIGHTS (LBS)									
TYPE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
WAFER STYLE W/LEVER	7	12	13	17	20	24	-	-	-
WAFER STYLE W/GEAR OP	--	-	-	-	-	-	54	70	100
LUG STYLE W/LEVER	11	13	16	20	24	28	-	-	-
LUG STYLE W/GEAR OP	-	-	-	-	-	-	58	73	112

STRAINERS

MODEL LPD



Y TYPE – 125# – CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
STANDARD SCREEN*	161.00	208.00	248.00	371.00	651.00	763.00	1,279.00	2,380.00	3,480.00
OPTIONAL SCREEN	89.00	106.00	126.00	144.00	214.00	290.00	375.00	487.00	690.00
MESH LINED SCREEN	96.00	98.00	100.00	103.00	121.00	132.00	150.00	188.00	202.00
WEIGHT (lbs)	20	30	50	75	115	154	273	464	565

*Standard screen for water only. For steam service 2" to 3" price as standard.

For steam 4" and larger use optional screen price.

MODEL TFC



Y TYPE – 125# – CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400	1600
STANDARD SCREEN*	POA	POA	POA	POA	POA	POA	POA	POA	POA	6,137.00	8,116.00
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	24	36	49	75	114	147	266	403	602	950	1035

*Standard screen for water only. For steam service 2" to 3" price as standard.

For steam 4" and larger use optional screen price.

Import

MODEL TFC2



Y TYPE – 250# – RAISED FACE CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400	1600
STANDARD SCREEN*	162.00	200.00	245.00	364.00	549.00	750.00	1,205.00	1,988.00	2,595.00	9,395.00	12,386.00
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	30	51	63	99	135	202	316	465	806	WOA	WOA

*Standard screen for water only. For steam service 2" to 3" price as standard.

For steam 4" and larger use optional screen price.

Import

MODEL TSC



Y TYPE – SCREWED – CAST IRON BODY – STAINLESS STEEL SCREEN

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
SIZE CODE	0025	0038	0050	0075	0100	0125	0150	0200	0250	0300
PRICE	18.00	19.00	21.00	24.00	30.00	44.00	48.00	83.00	162.00	237.00
WEIGHT (lbs)	1-1/4	1-1/4	2	2-1/2	4	7	8	13	24	34

Import

MODEL S



Y TYPE – SCREWED – CAST IRON BODY – STAINLESS STEEL SCREEN

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
SIZE CODE	0025	0038	0050	0075	0100	0125	0150	0200	0250	0300
STANDARD SCREEN*	30.00	32.00	38.00	40.00	53.00	71.00	84.00	141.00	268.00	418.00
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	1-1/4	1-1/4	1-3/4	2-1/2	4-1/2	7	9	15-1/2	24-1/2	35-1/4

*Standard screen for water only. For steam service 2" to 3" price as standard.

For steam 4" and larger use optional screen price.

Buy American

STRAINERS

MODEL SSFT



Y-TYPE , LEAD FREE STAINLESS STEEL STRAINER WITH THREAD ENDS

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
SIZE CODE	0050	0075	0100	0125	0150	0200
PRICE	39.00	47.00	65.00	133.00	136.00	243.00
WEIGHT (lbs)	0.4	0.6	1.0	1.5	2.3	3.5

Import

MODEL SSFS



Y-TYPE, LEAD FREE STAINLESS STEEL STRAINER WITH COPPER SWEAT ENDS

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
SIZE CODE	0050	0075	0100	0125	0150	0200
PRICE	40.00	48.00	66.00	134.00	137.00	245.00
WEIGHT (lbs)	0.6	0.8	1.2	1.9	2.7	4.3

Import

MODEL M1K



Y-TYPE – 125# CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"
SIZE CODE	0200	0250	0300	0400	0500	0600
MODEL M1K**	244.00	298.00	464.00	550.00	969.00	1,217.00
OPTIONAL SCREEN**	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	30	35	45	60	140	150

SIZE	8"	10"	12"	14"	16"	18"
SIZE CODE	0800	1000	1200	1400	1600	1800
MODEL M1K**	2,518.00	4,804.00	6,928.00	POA	POA	POA
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	270	370	605	POA	POA	POA

**Standard screen for water only. For steam service 2" to 3" price as standard.

Buy American

For steam 4" and larger use optional screen price.

MODEL M2K



Y-TYPE – 250# CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"
SIZE CODE	0200	0250	0300	0400	0500	0600
MODEL M2K**	723.00	817.00	926.00	1,584.00	2,293.00	2,377.00
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	34	50	72	130	192	220

SIZE	8"	10"	12"	14"	16"	18"
SIZE CODE	0800	1000	1200	1400	1600	1800
MODEL M2K**	4,903.00	10,450.00	15,687.00	POA	POA	POA
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	425	600	750	WOA	WOA	WOA

**Standard screen for water only. For steam service 2" to 3" price as standard.

Buy American

For steam 4" and larger use optional screen price.

STRAINERS

MODEL B1K



BASKET STRAINERS – 125# CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800
STANDARD SCREEN**	664.00	800.00	842.00	1,078.00	1,586.00	1,864.00	3,031.00
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	21	45	50	80	160	115	215

SIZE	10"	12"	14"	16"	18"	20"
SIZE CODE	1000	1200	1400	1600	1800	2000
STANDARD SCREEN**	5,815.00	9,408.00	POA	POA	POA	POA
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	320	520	POA	POA	POA	POA

**Standard screen for water only. For steam service 2" to 3" price as standard.
For steam 4" and larger use optional screen price.

Buy American

MODEL B1KC



BASKET STRAINERS, CLAMP COVER – 125# CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800
STANDARD SCREEN**	818.00	847.00	937.00	1,300.00	1,756.00	2,187.00	3,538.00
OPTIONAL SCREEN	POA	POA	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA	POA	POA
WEIGHT (lbs)	27	51	60	90	175	195	245

SIZE	10"	12"	14"	16"	18"
SIZE CODE	1000	1200	1400	1600	1800
STANDARD SCREEN**	6,320.00	10,954.00	POA	POA	POA
OPTIONAL SCREEN	POA	POA	POA	POA	POA
MESH LINED SCREEN	POA	POA	POA	POA	POA
WEIGHT (lbs)	425	785	WOA	WOA	WOA

**Standard screen for water only. For steam service 2" to 3" price as standard.
For steam 4" and larger use optional screen price.

Buy American

MODEL B1T



BASKET STRAINERS - 125# CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200	1400	1600
PRICE	215.00	291.00	418.00	540.00	840.00	942.00	1,779.00	2,408.00	3,814.00	7,622.00	11,148.00
WEIGHT (lbs)	29	34	47	85	92	136	242	372	520	900	1250

Import

MODEL B1TC



BASKET STRAINERS, CLAMP COVER - 125# CAST IRON FLANGED – STAINLESS STEEL SCREEN

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
PRICE	254.00	341.00	479.00	614.00	919.00	1,045.00	2,010.00	2,752.00	4,437.00
WEIGHT (lbs)	26	37	50	74	97	131	236	382	783

Import

STRAINERS

REPLACEMENT SCREENS FOR ALL Y STRAINERS

SIZE	20 MESH STAINLESS STEEL	PERFORATED SS	20-30-40-60-80-100 MESH LINED SS
1/4" – 3/8" – 1/2"	POA	POA	POA
3/4"	POA	POA	POA
1"	POA	POA	POA
1-1/4"	POA	POA	POA
1-1/2"	POA	POA	POA
2"	POA	POA	POA
2-1/2"		POA	POA
3"		POA	POA
3-1/2"		POA	POA
4"		POA	POA
5"		POA	POA
6"		POA	POA
8"		POA	POA
10"		POA	POA
12"		POA	POA
14"		POA	POA
16"		POA	POA
18"		POA	POA
20"		POA	POA
24"		POA	POA

Buy American

REPLACEMENT BASKETS

SIZE	PERFORATED SS	20-30-40-60-80-100 MESH LINED SS PERF. SS
1/2" -3/4"	POA	
1"	POA	
1-1/4"	POA	
1-1/2"	POA	
2"	POA	POA
2-1/2"	POA	POA
3"	POA	POA
3-1/2"	POA	POA
4"	POA	POA
5"	POA	POA
6"	POA	POA
8"	POA	POA
10"	POA	POA
12"	POA	POA
14"	POA	POA
16"	POA	POA
18"	POA	POA
20"	POA	POA
24"	POA	POA

OPTIONAL PERFORATED SCREENS – LIST FOR PERFORATED STAINLESS STEEL SCREENS ARE FOR OUR STANDARD PERFORATIONS .033 .045 .123 .156. PRICES FOR OTHERS ON APPLICATION

Buy American

GROOVED BY 150# FLANGED ADAPTOR

MODEL GAD

MATERIAL - DUCTILE IRON

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800
PRICE	52.00	79.00	101.00	156.00	183.00	245.00	417.00
WEIGHT (lbs)	6	9	11	18	23	28	47

SIZE	10"	12"	14"	16"	18"	20"	24"
SIZE CODE	1000	1200	1400	1600	1800	2000	2400
PRICE	660.00	1,221.00	POA	POA	POA	POA	POA
WEIGHT (lbs)	67	136	POA	POA	POA	POA	POA

Import

TRANSITION FLANGE

TRANSITION FLANGE FOR METRASPHERE AND FLANGE ADAPTER

SIZE	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
SIZE CODE	0200	0250	0300	0400	0500	0600	0800	1000	1200
PRICE	51.00	54.00	68.00	76.00	93.00	107.00	133.00	186.00	275.00
WEIGHT (lbs)	0.7	1.0	1.1	1.7	2.0	2.3	3.2	4.4	6.5

METRAFLEX TERMS and CONDITIONS

1. All quotations are subject to approval, acceptance and correction at the home office. Any errors in quotations resulting in orders will be corrected and resubmitted to the customer for their acceptance or refusal.

No prices may be made up from information other than that shown in the tables.
2. All prices are f.o.b. factory, Chicago, Illinois, and are quoted exclusive of any taxes.

Shipments boxed for trans-ocean export add 10% to total trade price.

Terms: Net 30 days from date of invoice.
3. Non-stock items are non-cancelable and non-returnable.
4. Cancellations or alteration of an order or return of any product by Buyer may not be made without advance written consent of manufacturer and shall be subject to a cancellation charge.

A \$25 or 35% minimum restocking charge, whichever is greater, shall be placed on any returned goods.
5. We will not be responsible for delays in shipping due to conditions beyond our control such as strikes, fires, or accidents.
6. Any claims for shortages or damaged products must be made in writing within 10 days after receipt of shipment.
7. Prices subject to change without notice

MINIMUM ORDER AMOUNT
\$50.00

LIMITED WARRANTY

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitations below.

If the purchaser believes a product is defective, the purchaser shall; (a) Notify the manufacturer, state the alleged defect and request permission to return the product; (b) If permission is given, return the product with transportation prepaid. If the product is accepted for return and found to be defective, the manufacturer will, at its discretion, either repair or replace the product, f.o.b. factory, within 60 days of receipt, or refund the purchase price. Other than to repair, replace or refund as described above, purchaser agrees that manufacturer shall not be liable for any loss, costs, expense or damages of any kind arising out of the product, its use, installment or replacement, labeling, instructions, information or technical data of any of the foregoing. NO OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE MADE OR AUTHORIZED. NO AFFIRMATION OF FACT, PROMISE, DESCRIPTION OF PRODUCT OF USE OR SAMPLE OR MODEL SHALL CREATE ANY WARRANTY FROM MANUFACTURER, UNLESS SIGNED BY THE PRESIDENT OF MANUFACTURER. These products are not manufactured, sold or intended for personal, family or household purposes.

In today's highly technical piping design environment, it is necessary to have a quality set of piping specifications. As a professional courtesy to our customers, we are pleased to be able to present the following educational information:

1.5.1 All pipe is to be made of a long hole, surrounded by metal centered around the hole.

1.5.2 All pipe is to be hollow throughout the entire length.

1.5.3 All pipe is to be made of the very best quality, preferably tubular or pipular.

1.5.4 All acid proof pipe is to be made of acid proof metal.

1.5.5 The O.D. of all pipe must exceed the ID. Otherwise the hole will be on the outside of the pipe.

1.5.6 All pipe is to be supplied with nothing in the hole so that water, steam, or other stuff can be put inside at a later date.

1.5.7 All pipe is to be supplied without rust, because this is always put on at the job site.

1.5.8 All pipe is to be cleaned free of any covering such as mud, tar, barnacles, or any form of manure before putting up, otherwise it will make lumps under the paint.

1.5.9 All pipe over 500 feet in length must have the words "Long Pipe" clearly painted on each end so that the fitter will know it is long pipe.

1.5.10 All pipe over two miles long must also have these words painted in the middle so that the fitter will not have to walk the full length of pipe to determine if it is long pipe or not.

1.5.11 All pipe over six inches in diameter is to have the words "Large Pipe" painted on it, so that the fitter will not use it for small pipe.

1.5.12 All pipe fittings are to be made of the same stuff as the pipe.

1.5.13 All pipe closers are to be open on one end.

1.5.14 No fittings are to be put on unless specified, if you do, straight pipe becomes crooked pipe.