

Flexible Solutions

DURAFLEX™ INC.

for Rigid Applications

MULTI-PLY EXHAUST BELLOWS*

BENEFITS OF MULTI-PLY CONSTRUCTION

- **Longer Cycle Life**
- **Larger Motion Capabilities**
- **More Flexible** — Easier Installation!
- **Better Vibration Handling**
- **Softer Spring Rate** — Reduces stress on adjacent Piping, Welds, Flanges, Equipment!
- **More Heat Retention**
- **Corrosive Sacrificial Layer** — For Oxidation or Salt Induced Corrosion.

BENEFITS OF HYDROFORMING FABRICATION

- **Cleaner**—Only Internal Water Pressure is used to form.
- **No Lubricants** used in forming process. **Bright Surface Finish** can be utilized!
- **No Carbon Steel** or other rust initiating ferritic tooling used.
- **Absence of Tool Marks** that can cause:
 - ✓ Increased Stresses
 - ✓ Corrosion Initiation Sites
- **Less Expensive** than other forming methods!
- **Leak Testing** is performed during high pressure internal forming operation
- **All Convolutions created at one time**— Equal in size & performance.
- **Finite Element Analysis (FEA)** — Only effective if the convolutions are uniform.
- **Very Predictable Life Calculations**
- **Predictable Natural Frequency**
- **Wide Variety** — Of End Forms can be created within the tooling including:
 - ✓ Flares
 - ✓ Marmons
 - ✓ Expansions
 - ✓ And more!



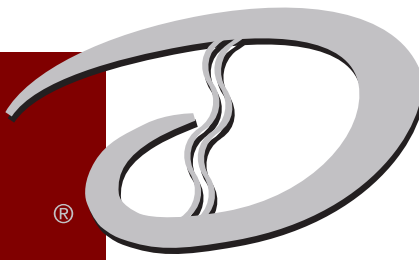
* Bellows ID will fit over nominal TUBE size OD.

DURAFLEX, INC.™ | 765 INDUSTRIAL DRIVE, CARY, IL 60013
 PH 877.462.1007 | FX 847.462.1450 | EM info@duraflexinc.com
 www.duraflexinc.com | 24/7 EMERGENCY | 847.337.9459



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SPECIFICATIONS TUBE SIZE ID*

STANDARD MULTI-PLY EXHAUST BELLOWS*

NOMINAL TUBE SIZE ID *	DURAFLEX PART NUMBERS	LIVE LENGTH	OVERALL LENGTH	AXIAL MOVEMENT	LATERAL MOVEMENT	AXIAL SPRING RATE #/in.	LATERAL SPRING RATE #/in.
2"	020T-MB1-BRW-04	3.0"	4.0"	0.50"	0.20"	134	151
2"	020T-MB1-BRW-06	5.0"	6.0"	1.25"	0.45"	80	36
2"	020T-MB1-BRW-08	7.0"	8.0"	1.75"	0.70"	62	15
2"	020T-MB1-BRW-12	11.0"	12.0"	2.75"	1.00"	67	6
2 ½"	024T-MB1-BRW-04	3.0"	4.0"	0.50"	0.18"	140	234
2 ½"	024T-MB1-BRW-06	5.0"	6.0"	1.25"	0.43"	82	55
2 ½"	024T-MB1-BRW-08	7.0"	8.0"	1.75"	0.65"	60	20
2 ½"	024T-MB1-BRW-12	11.0"	12.0"	2.75"	0.95"	64	9
3"	030T-MB1-BRW-04	3.0"	4.0"	0.50"	0.18"	105	255
3"	030T-MB1-BRW-06	5.0"	6.0"	1.25"	0.40"	66	63
3"	030T-MB1-BRW-08	7.0"	8.0"	1.75"	0.62"	47	23
3"	030T-MB1-BRW-12	11.0"	12.0"	2.75"	0.80"	62	12
3 ½"	034T-MB1-BRW-04	3.0"	4.0"	0.50"	0.15"	108	348
3 ½"	034T-MB1-BRW-06	5.0"	6.0"	1.25"	0.38"	66	83
3 ½"	034T-MB1-BRW-08	7.0"	8.0"	1.75"	0.60"	47	31
3 ½"	034T-MB1-BRW-12	11.0"	12.0"	2.75"	0.80"	78	20
4"	040T-MB1-BRW-04	3.0"	4.0"	0.50"	0.12"	283	1165
4"	040T-MB1-BRW-06	5.0"	6.0"	1.25"	0.35"	154	242
4"	040T-MB1-BRW-08	7.0"	8.0"	1.75"	0.55"	112	94
4"	040T-MB1-BRW-12	11.0"	12.0"	2.75"	0.75"	73	26
5"	050T-MB1-BRW-04	2.5"	4.0"	0.40"	0.10"	280	2475
5"	050T-MB1-BRW-06	4.5"	6.0"	1.10"	0.30"	165	489
5"	050T-MB1-BRW-08	6.5"	8.0"	1.60"	0.40"	183	273
5"	050T-MB1-BRW-12	10.5"	12.0"	2.60"	0.60"	113	65
6"	060T-MB1-BRW-04	2.5"	4.0"	0.40"	0.10"	482	6062
6"	060T-MB1-BRW-06	4.5"	6.0"	1.10"	0.25"	263	1136
6"	060T-MB1-BRW-08	6.5"	8.0"	1.60"	0.30"	193	402
6"	060T-MB1-BRW-12	10.5"	12.0"	2.60"	0.50"	116	92
8"	080T-MB1-BRW-04	2.5"	4.0"	0.25"	0.06"	1003	20635
8"	080T-MB1-BRW-06	4.5"	6.0"	1.00"	0.12"	558	4093
8"	080T-MB1-BRW-08	6.5"	8.0"	1.60"	0.25"	380	1380
8"	080T-MB1-BRW-12	10.5"	12.0"	2.60"	0.35"	235	328
10"	100T-MB1-B-04	2.0"	4.0"	0.20"	0.06"	994	40143
10"	100T-MB1-B-06	4.0"	6.0"	0.60"	0.06"	568	8060
10"	100T-MB1-B-08	6.0"	8.0"	1.50"	0.20"	361	2332
10"	100T-MB1-B-12	10.0"	12.0"	2.50"	0.30"	221	535
12"	120T-MB1-B-04	2.0"	4.0"	0.20"	0.06"	2072	183157
12"	120T-MB1-B-06	4.0"	6.0"	0.60"	0.06"	888	14955
12"	120T-MB1-B-08	6.0"	8.0"	1.50"	0.18"	631	5813
12"	120T-MB1-B-12	10.0"	12.0"	2.50"	0.25"	366	1176

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