A Division of TM Industrial Supply, Inc.

1432 Walnut Street Erie, PA 16502-1746 USA
Phone (814) 456-1448 Fax (814) 452-6573
Email: sales@tmfiltration.com Web: www.tmfiltration.com

Bell-Mouth

A bell-mouth is a bell-shaped extension at the end of a pipe

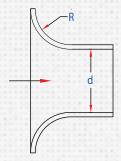
A bell-mouth may also be referred to as a suction bell-mouth. A bell-mouth may be used in gas or liquid applications and is typically placed on the inlet. When placed on the outlet they may be referred to as a diffuser. Bell-mouths are commonly incorporated into a pulsation dampener or anti-surge tank design which contain one or more choke-tubes. The bellmouth configuration reduces entrance pressure losses as the gas or liquid enters into the pipe in which the bell-mouth is attached. This is accomplished because the shape of the bellmouth results in a low resistance coefficient which is also called the K factor. The K factor is one of the variables used in determining entrance and exit pressure drops.



* Special length shown

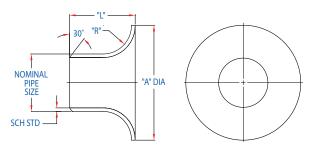
Applications

- Gas Compressor Protection (Reciprocating)
- Pulsation Dampener
- Air/Gas/Water Intake
- Suction Bellmouth
- Anti-surge Tank



PIPE ENTRANCE RESISTANCE TABLE				
R/d	K			
0.00*	0.50			
0.02	0.28			
0.04	0.24			
0.06	0.15			
0.10	0.09			
0.15 & up	0.04			
* Sharp-edged				
K = Resistance Coefficient (unitless)				





SMALL BELL-MOUTHS					
PART NO.	NOMINAL PIPE SIZE	Α	R	L	
BM-600-S	6"	9	1-1/2"	4"	
BM-800-S	8"	12"	2"	4-1/2"	
BM-1000-S	10"	15"	2-1/2"	4-1/2"	
BM-1200-S	12"	18"	3"	5"	
BM-1400-S	14"	18"	3"	5"	
BM-1600-S	16"	24"	4"	8"	
BM-1800-S	18"	24"	4"	6"	
BM-2000-S	20"	30"	5"	10"	
BM-2400-S	24"	36"	6"	11"	
STANDARD BELL-MOUTHS					
PART NO.	NOMINAL PIPE SIZE	Α	R	L	
BM-075	3/4"	2-1/2"	11/16"	2-1/2"	
BM-100	1"	2-1/2"	11/16"	2-1/2"	
BM-125	1-1/4"	3"	13/16"	2-5/8"	
BM-150	1-1/2"	4"	1"	3-1/8"	
BM-200	2"	5"	1-1/4"	3-3/8"	
BM-250	2-1/2"	6	1-1/2"	3-3/4"	
BM-300	3"	7"	1-3/4"	4"	
BM-350	3-1/2"	8"	2"	4-1/4"	
BM-400	4"	10"	2-1/2"	4-1/4"	
BM-500	5"	12"	3"	4-3/8"	
BM-600	6"	12"	3"	5"	
BM-800	8"	16"	4"	6"	
BM-1000	10"	20"	5"	6"	
BM-1200	12	24"	6"	7-1/2"	
BM-1400	14	28"	6-5/8"	10"	
BM-1600	16	32"	7-5/8"	11"	
BM-1800	18	36"	8-5/8"	12"	
BM-2000	20	40"	9-5/8"	14"	
BM-2400	24	48"	11-5/8"	16"	

Note: Dimensions subject to change without notice, apply for certified drawings. Custom designs are available, please consult the TM Sales Department or your local sales representative.