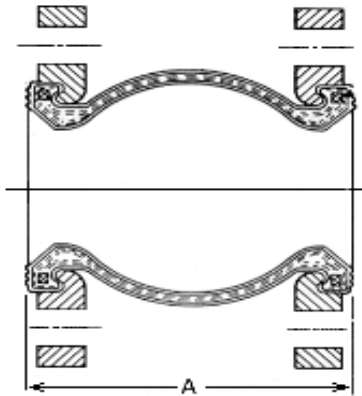


# MDC MODEL 101 SINGLE SPHERE MOLDED RUBBER EXPANSION JOINTS



MATERIALS OF CONSTRUCTION	
FLANGES (150 LBS)	Carbon Steel - Zinc Plated
REINFORCING WIRE	Mild Steel
TUBE	Synthetic Rubber
COVER	Synthetic Rubber
REINFORCING CORD	Synthetic Fiber

**FEATURES:**

- \* Applicable for suction and discharge.
- \* Provides sound and vibration isolation.
- \* Gaskets and packing are not required.
- \* Floating flanges allow for easy installation.
- \* Prevents piping system and equipment breakdown by absorbing elongation and contraction caused by temperature variances.
- \* Absorbs water pulsation and minimizes water hammering.

QTY	MDC P/N	SIZE (IN.)	FACE TO FACE "A" (IN.)	AXIAL COMP (IN.)	AXIAL EXT (IN.)	LATERAL +/- (IN.)	ANGULAR +/- DEG	PRESS. THRUST AREA	WEIGHT (LBS.)
	1.50"-101	1-1/2"	6"	1/2"	3/8"	1/2"	15	6.5	6
	2.00"-101	2"	6"	1/2"	3/8"	1/2"	15	7.1	9
	2.50"-101	2-1/2"	6"	1/2"	3/8"	1/2"	15	11.1	12
	3.00"-101	3"	6"	5/8"	3/8"	1/2"	15	13.4	14
	4.00"-101	4"	6"	5/8"	3/8"	1/2"	15	22.7	18
	5.00"-101	5"	6"	5/8"	3/8"	1/2"	15	30.0	23
	6.00"-101	6"	6"	5/8"	3/8"	1/2"	15	41.3	27
	8.00"-101	8"	6"	5/8"	3/8"	1/2"	15	63.6	41
	10.00"-101	10"	8"	3/4"	1/2"	3/4"	15	103.9	57
	12.00"-101	12"	8"	3/4"	1/2"	3/4"	15	137.9	80
	14.00"-101	14"	8"	3/4"	1/2"	3/4"	15	182.7	115
	16.00"-101	16"	8"	3/4"	1/2"	3/4"	15	240.5	165
	18.00"-101	18"	8"	3/4"	1/2"	3/4"	15	298.7	168
	20.00"-101	20"	8"	3/4"	1/2"	3/4"	15	363.1	170
	24.00"-101	24"	10"	3/4"	1/2"	3/4"	15	510.7	255

**OPERATING CONDITIONS:**

SIZE RANGE	1-1/2" - 12"	14" - 24"
Operating Pressure	214 psig	114 psig
Operating Temp. Range	-20 to 225 deg F (Neoprene)	
	-20 to 240 deg F (EPDM)	
Vacuum Range	26"Hg	
Burst Pressure	850 psig	340 psig

**INSTALLATION TOLERANCES:**

Compression: 3/16"  
 Extension: 1/8"  
 Lateral: 1/4"  
 Angular: 5 deg.  
 Not intended for torsion.

**NOTES:**

- \* Warning: Do not extend rubber expansion joints when installed in vacuum (suction) applications.
- \* To determine Pressure Thrust Force (lbs.), multiply Pressure Thrust Area (in.sq.) by system operating pressure.
- \* Control Units must be used in systems where proper guiding and anchoring might not be possible or verifiable.

**APPLICATIONS:**

- \* Pumps and air compressors in A/C and sanitary equipment.
- \* Refrigeration systems and blowers in industrial plant equipment.
- \* Feed-water and drainage equipment in marine piping systems.
- \* Applicable for use in power generation and chemical plants.
- \* Oil transfer systems (Neoprene only).

ARE CONTROL UNITS REQUIRED ?	
YES	2, 3 or 4-rod Control Units may be specified.
NO	
Contact factory for recommendations.	

CUSTOMER (COMPANY)	
CUSTOMER (INDIVIDUAL)	
CUSTOMER TEL / FAX	
PROJECT	
ENGINEERING COMPANY	
CUSTOMER REFERENCE	
MDC REFERENCE	
MDC DWG. NO.	20701
	2008-01-03
	JMP



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