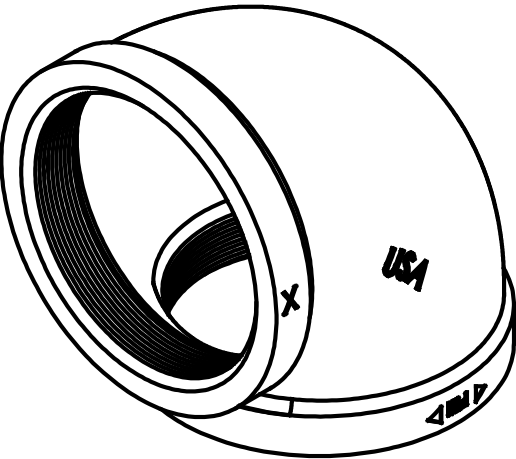
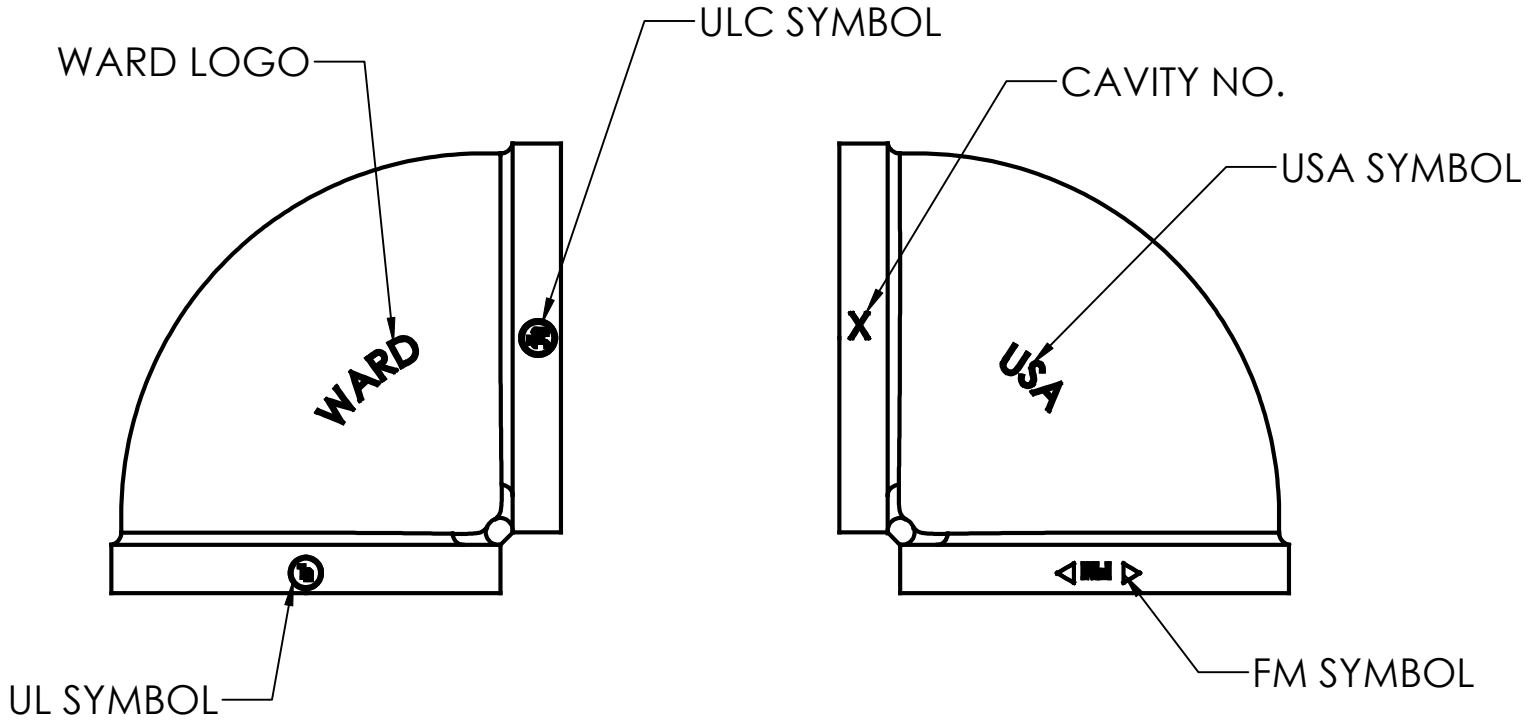
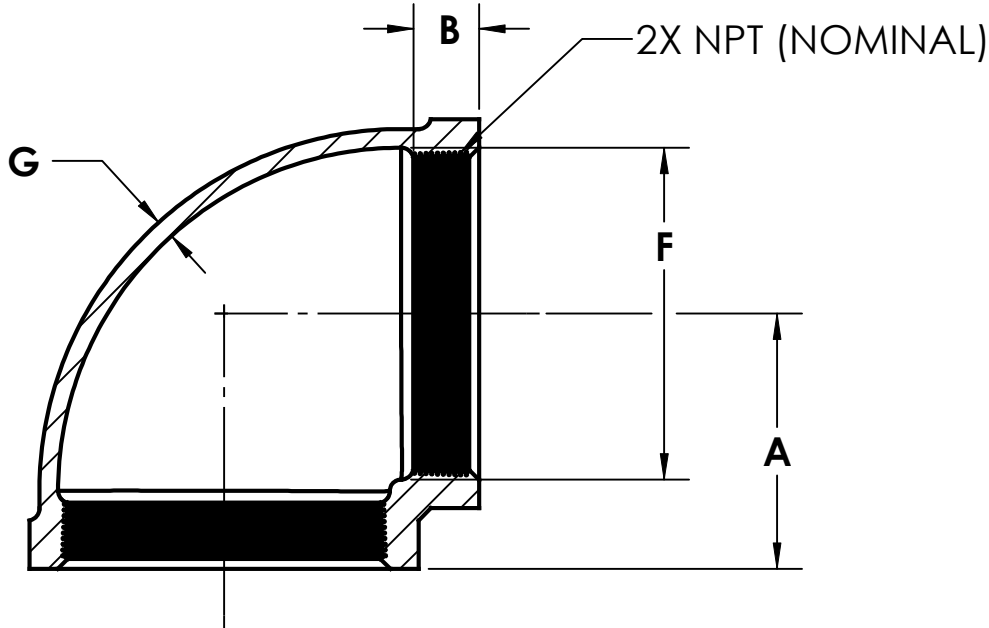
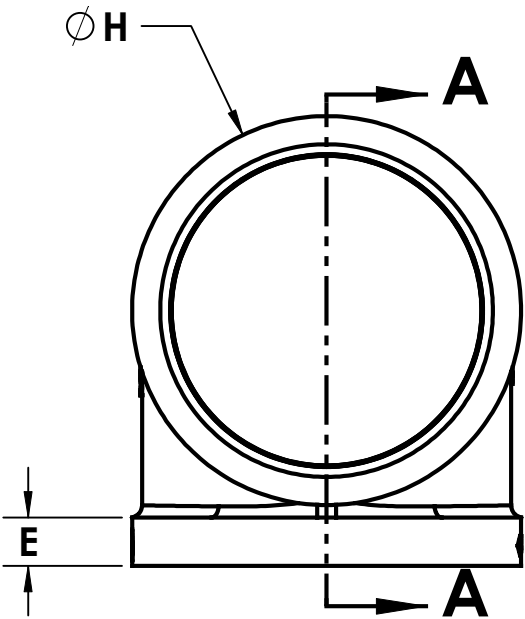


PART NO.	NOMINAL PIPE SIZE	CENTER TO END A	CENTER TO END TOLERANCES	LENGTH OF THREAD B, MIN.	WIDTH OF BAND E, MIN.	INSIDE DIA. OF FITTING F		METAL THICKNESS G, MIN.	O.D. OF BAND H, MIN.
						MIN.	MAX.		
A.BML	1/8	.69	±.03	.25	.20	.40	.43	.09	.69
B.BML	1/4	.81	±.04	.32	.21	.54	.58	.09	.84
C.BML	3/8	.95	±.05	.36	.23	.67	.72	.10	1.01
D.BML	1/2	1.12	±.06	.43	.25	.84	.90	.10	1.20
E.BML	3/4	1.31	±.06	.50	.27	1.05	1.11	.12	1.46
1.BML	1	1.50	±.07	.58	.30	1.31	1.38	.13	1.77
1B.BML	1¼	1.75	±.07	.67	.34	1.66	1.73	.14	2.15
1D.BML	1½	1.94	±.08	.70	.37	1.90	1.97	.15	2.43
2.BML	2	2.25	±.08	.75	.42	2.37	2.44	.17	2.96
2D.BML	2½	2.70	±.10	.92	.48	2.87	2.97	.21	3.59
3.BML	3	3.08	±.10	.98	.55	3.50	3.60	.23	4.28
3D.BML	3½	3.42	±.10	1.03	.60	4.00	4.10	.25	4.84
4.BML	4	3.79	±.12	1.08	.66	4.50	4.60	.26	5.40
5.BML	5	4.50	±.12	1.18	.78	5.56	5.66	.30	6.58
6.BML	6	5.13	±.14	1.28	.90	6.62	6.72	.34	7.77

TABLE IS BASED ON ASME B16.3 TABLE 2, AND 3



REF. VIEW ONLY



SECTION A-A

- NOTES:
- PARTS COMPLY WITH ASME B16.3.
 - REGULATORY AGENCY LOGOS MUST NOT BE APPLIED TO THE PRODUCT UNTIL PRODUCT APPROVAL STATUS IS CONFIRMED BY ENGINEERING.
 - LOCATION OF MARKINGS IS APPROXIMATE AND SHOWN FOR REF. ONLY.
 - METAL THICKNESSES SHALL NOT BE LESS THAN 90% OF THE VALUE GIVEN IN THE TABLE.
 - THREADS PER ASME B1.20.1
 - OPTIONAL COATINGS PER ASME B16.3, PART NO.: X.NML
 - FACE BEVEL (RADIAL DRAFT) IS 5° MAX.
 - CHAMFER SHALL BE APPROX. 45° WITH AXIS OF THREAD, C'SUNK NOT LESS THAN 1/2 THE PITCH OF THE THREAD. PER ASME B16.3, PARAGRAPH 7.3

02	07/26/13	20130726-01	ADD 5.BML TO CHART	GCC
01	07/05/07	20070629-03	NEW SOLIDWORKS CHARTED DRAWING	MK
REV.	DATE	E.C.O.#	DESCRIPTION	APR.

<div>THIS IS A CAD DRAWING, NO HAND WRITTEN EDITS ALLOWED</div> <div>ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED DRAWN IN ACCORDANCE WITH ASME Y14.5 REMOVE ALL BURRS AND SHARP EDGES DRAFT ANGLE IS 2° UNLESS NOTED OTHERWISE</div>		<div>All information contained within this document is intended for the sole use of Ward Manufacturing and may not be released, used, copied, or distributed without the express written permission of.....</div> <div>WARD MANUFACTURING LLC</div> <div>BLOSSBURG, PA. 16912, USA (570) 638-2131</div>			
TOLERANCES AND SPECIFICATIONS UNLESS OTHERWISE NOTED:		TITLE: 90° M.I. ELBOW, CLASS 150 CHARTED		PART NO.: X.BML	
THREADS: UN THREADS - EXTERNAL: CLASS 2A, INTERNAL: CLASS 2B					
AS-CAST SURFACE	MACHINED SURFACE				
±.031 FOR THE FIRST INCH, AND AN ADDITIONAL ±.005 FOR EACH ADDITIONAL INCH	DECIMAL PLACE: X ±.03 .XX ±.01 XXX ±.005 SURFACE FINISH: 63 ANGULARITY: ±1°	MATERIAL: Malleable Iron ASTM A197			
		DWN BY: MAK	DATE: 07/05/2007	CKD BY: JRZ	DATE: 04/16/2008
		SHEET: 1 OF 1	SCALE: NONE	SIZE: C	SMARTEAM I.D.: SWD-00001213
		REV. 02			