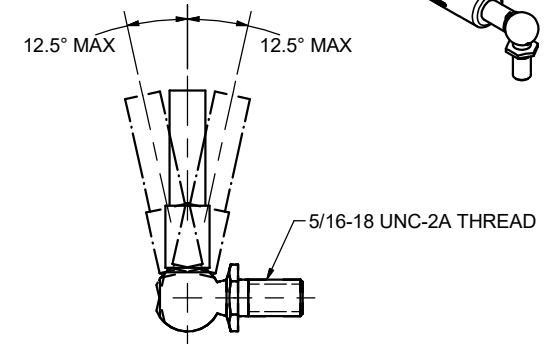
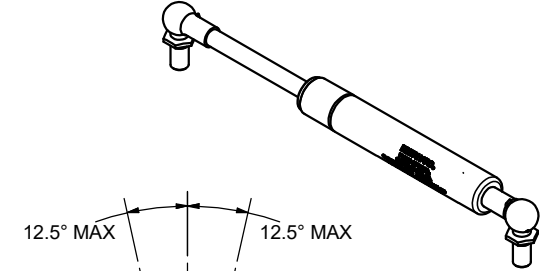
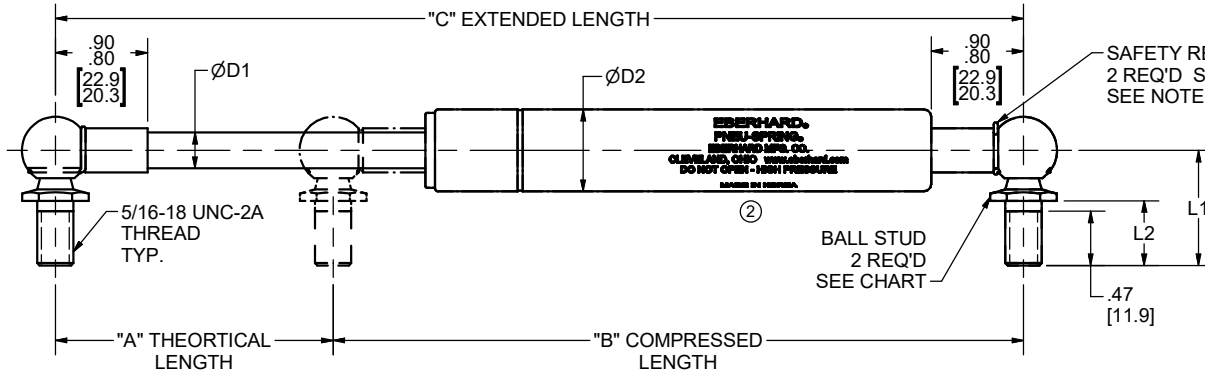


CONFIDENTIAL NOTICE: This drawing and the designs, specifications and engineering information disclosed hereon are the property of Eberhard Manufacturing Company and are not to be disseminated or reproduced without express written consent. The drawing is loaned in confidence and then only for consideration of the matter disclosed hereon. In accepting loan of this drawing, recipient agrees to keep it and the matter disclosed hereon in confidence and not to use nor permit their use in any way detrimental to Eberhard Manufacturing Company, Division of the Eastern Company, 21944 Drake Road, Cleveland, Ohio 44149-9712 © 2015 EBERHARD MFG. CO.

REVISION HISTORY					
REV	DESCRIPTION	EN	DATE	REV. BY	APVD. BY
	REVISSED AND REDRAWN	5664	7/25/2014	FLP	MR
1	7.11.78 [18.0/20.0] WAS .78 [19.0]	5679	11-7-14	FLP	MR
2	REVISSED LABEL TO DETAIL	5696	3-27-15	FLP	MR
3	CORRECTED CHART	5765	8-12-16	FLP	MR



① EAA/EBB SERIES GAS SPRING						
MODEL	D1	D2	"A" STROKE	"B" COMPRESSED	"C" EXTENDED	FORCES
EAA-8200	.31 [8.0]	.71/.78 [18.0/20.0]	2.00 [50.8]	6.40 [162.6]	8.40 [213.5]	20, 30, 60, 90, 130, 150
EAA-8350	.31 [8.0]	.71/.78 [18.0/20.0]	3.550 [88.9]	8.34 [211.9]	11.84 [301.0]	20, 30, 60, 90, 120
EAA-8500	.31 [8.0]	.71/.78 [18.0/20.0]	5.00 [127.0]	10.18 [258.6]	15.18 [385.5]	20, 30, 60, 90, 120
EAA-8600	.31 [8.0]	.71/.78 [18.0/20.0]	6.00 [152.4]	10.99 [279.2]	16.99 [431.5]	20, 30, 40, 60, 90, 120
EAA-8700	.31 [8.0]	.71/.78 [18.0/20.0]	7.00 [177.8]	12.57 [319.3]	19.57 [497.0]	20, 30, 50, 60, 90, 120, 150
EBB-10100	.39 [10.0]	.90 [22.0]	10.00 [254.0]	17.81 [452.5]	27.81 [706.5]	100, 120, 150, 200, 250

BALL STUD AND SAFETY CLIP INFORMATION				
GAS SPRING SERIES	BALL STUD	L1	L2	SAFETY CLIP
EAA SERIES	16298 (10 MM)	.97 [24.7]	.56 [14.2]	16299
EBB SERIES	16301 (13MM)	1.14 [29.0]	.62 [15.7]	16302-SS



- NOTES:
- SAFETY RETAINING CLIPS MUST BE INSERTED THRU TWO HOLES IN END SOCKET FITTINGS AND SNAPPED INTO PLACE AS SHOWN.
 - RECOMMENDED MAXIMUM ROTATON OF BALL STUDS TO BE 12° 30' OR LESS IN ANY DIRECTION
 - GAS SPRING NOT TO BE USED IN TEMPERATURES ABOVE 176° F OR BELOW -22° F
 - INSTALLATION TORQUE FOR BALL STUDS: 12-15 LBS-FT [16.3-20.3 N-M]
 - CONSULT FACTORY FOR DESIGN ASSISTANCE AND MOUNTING BRACKET INFORMATION
 - FINISH: ROD: OXY NITRIDING; BARREL: BLACK PAINT; BALL STUD: ZINC
 - ALL MODELS ENDING IN "U" INCLUDE: (1) PNEU-SPRING, (2) BALL STUDS, AND (2) SAFETY CLIPS.
 - ALL MODELS ENDING IN "C" INCLUDE: (1) PNEU-SPRING AND (2) SAFETY RETAINING CLIPS.
 - ORDER PART NUMBER WITH SPECIFIC FORCES: EXAMPLE EAA-8200-20U FOR 20 LBS. FORCE

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.15-2009		DATE	7/25/2014
LINEAR MEASURE: INCH		DR BY	FLP
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE AS FOLLOWS:		SCALE	NONE
ANGLES:	± 2° ± 2'	CHK BY	
2 PLACE DEC.:	± .03 ± .76		
3 PLACE DEC.:	± .015 ± .38		
ALL HOLES:	± .005 ± .13		

CUSTOMER PRINT

EBERHARD MANUFACTURING CO.
DIVISION OF
THE EASTERN COMPANY
CLEVELAND, OHIO 44149-9712

NAME
PNEU-SPRING WITH BALL STUDS AND RETAINING CLIPS

MATERIAL: _____ PART NUMBER: _____ CHART: _____
EAA-8200-U

SUPERSEDES DRAWING EAA-8200-U CHART DATED 11-17-2012.

C:\TEMP\cc2680a9-d4e5-4770-a847-2f9615a0c31a1\FASTER\GAS SPRINGS\EAA-8200-U.CH.dwg