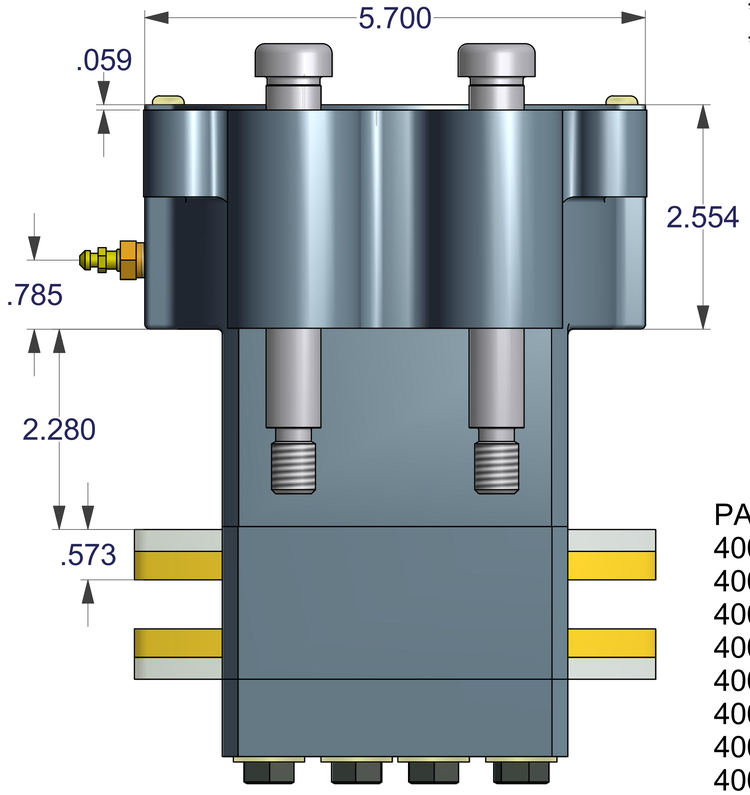
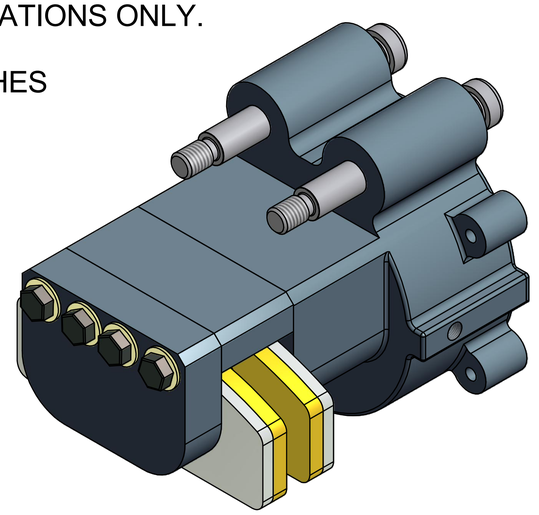


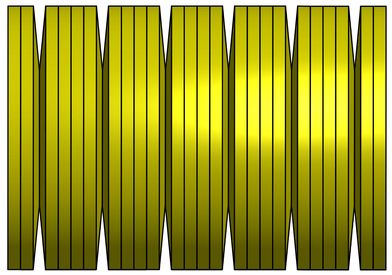
* FS410 SERIES BRAKES ARE FOR EMERGENCY STOP & HOLDING APPLICATIONS ONLY.
* SPACERS ARE AVAILABLE FOR OTHER DISC THICKNESSES.
* TORQUE, IN. LBS. = TANGENTIAL FORCE (LBS.) X BRAKING RADIUS, INCHES
* BRAKING RADIUS, INCHES = SQ. ROOT OF (DIM.'C' SQUARED + .8789)
* TWO 1/8-27 NPTF PORTS

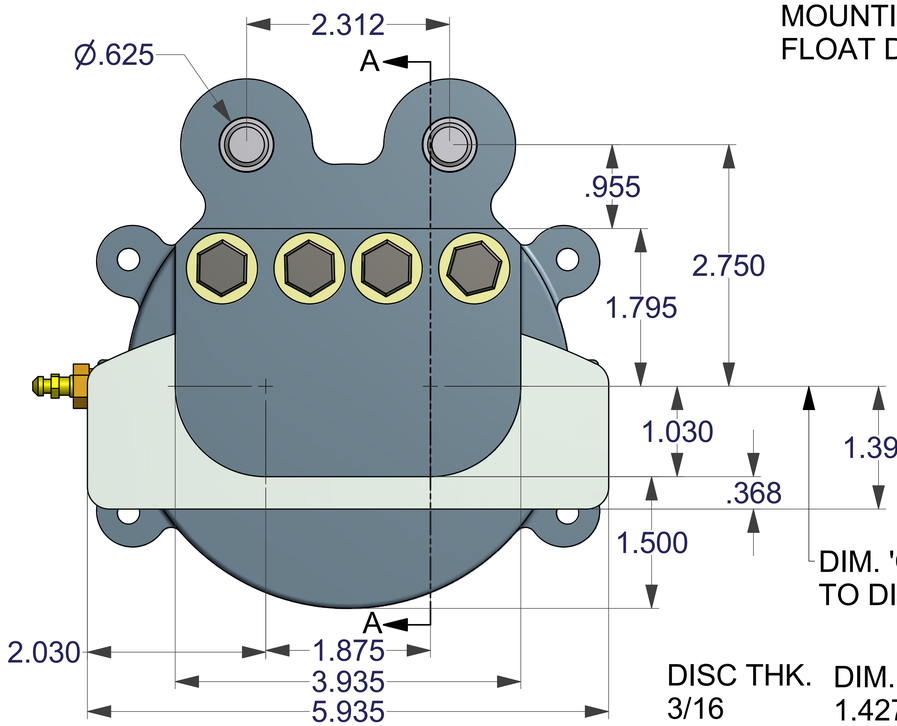
* 288 PSI RELEASE PRESSURE
* 400 PSI MAX. PRESSURE
* 12 INCH MINIMUM DISC DIAMETER
* 4,130 LBS. OF CLAMPING FORCE
* .45 COFF. OF FRICTION
* DUAL BELLEVILLE DISC SPRING STACKS 24 EACH
* NON ASBESTOS FRICTION MATERIAL
* 23.89 SQ. INCHES TOTAL PAD SURFACE AREA
* 7.72 CUBIC INCHES OF WEARABLE MATERIAL
* CAST ALUMINUM CONSTRUCTION
* HARDCOATED HOUSINGS
* NITRILE SEALS

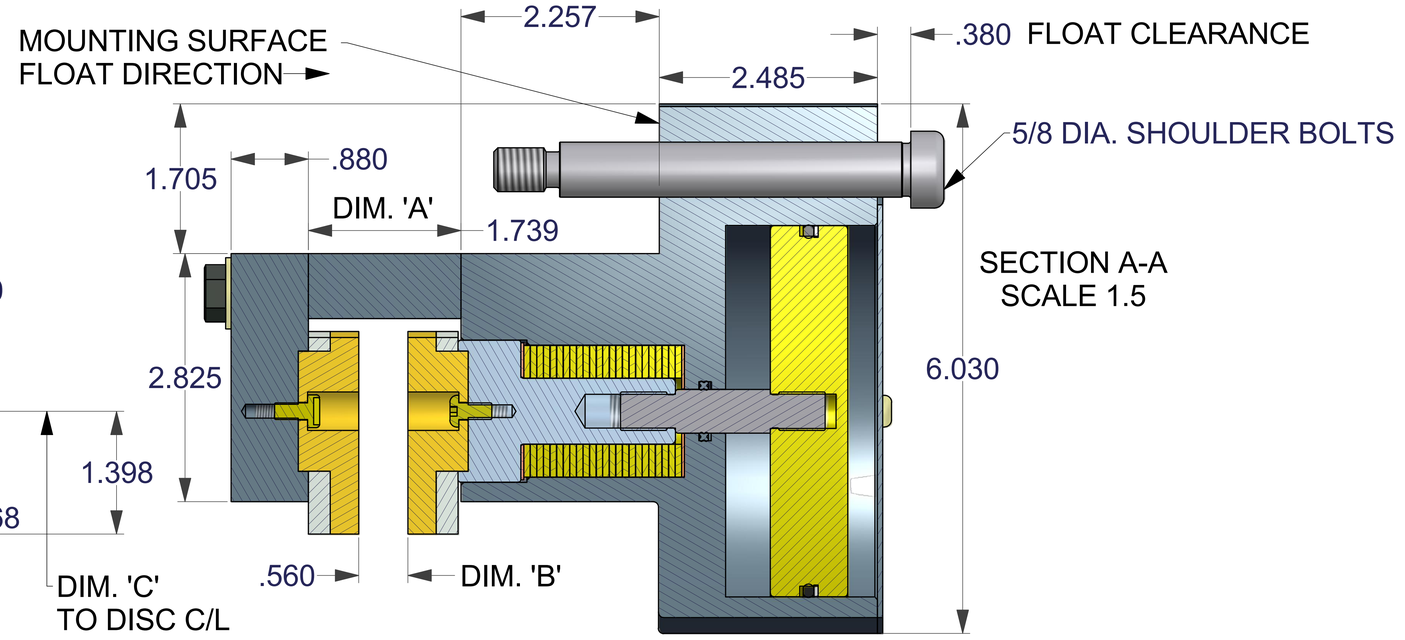


PART NO.	MODEL	DISC THK.
4005-0117	FS410IF-EP	3/16
4005-0118	FS410BF-EP	1/4
4005-0119	FS410LF-EP	3/8
4005-0120	FS410EF-EP	1/2
4005-0121	FS410JF-EP	5/8
4005-0122	FS410TF-EP	3/4
4005-0123	FS410OF-EP	1.0
4005-0124	FS410QF-EP	1.125

TOTAL PAD WEAR, INCHES	TANGENTIAL FORCE, LBS.
0	1,859
.06	1,594
.12	1,329
.18	1,064
.24	799
.30	534
.36	269
.42	0







DISC THK.	DIM. 'A'	DIM. 'B'
3/16	1.427	.247
1/4	1.498	.310
3/8	1.614	.435
1/2	1.739	.560
5/8	1.864	.685
3/4	1.989	.810
1.0	2.239	1.06
1.125	2.364	1.185

DISC DIA.	DIM. 'C'	BRAKING RADIUS
12	5.033	5.120
14	6.033	6.105
16	7.033	7.095
18	8.033	8.088
20	9.033	9.082
30	14.033	14.064
40	19.033	19.056
50	24.033	24.051

SIZE E

UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DRAWING
REMOVE ALL BURRS
TAP DEPTHS FULL THD.
DRILL DEPTHS FULL DIA.
TOLERANCES
2 PLACE +/-.010
3 PLACE +/-.005
THREADS
EXTERNAL CLASS 2A
INTERNAL CLASS 2B

THIRD ANGLE PROJECTION

DESIGNER WCB 12/25/10 DATE
CHECKER DATE
SCALE
CLASS

W.C. BRANHAM INC.
RIVER FALLS, WI.

TITLE
FS410-EP SERIES
FAILSAFE CALIPERS

DRAWING NO.
REVISION