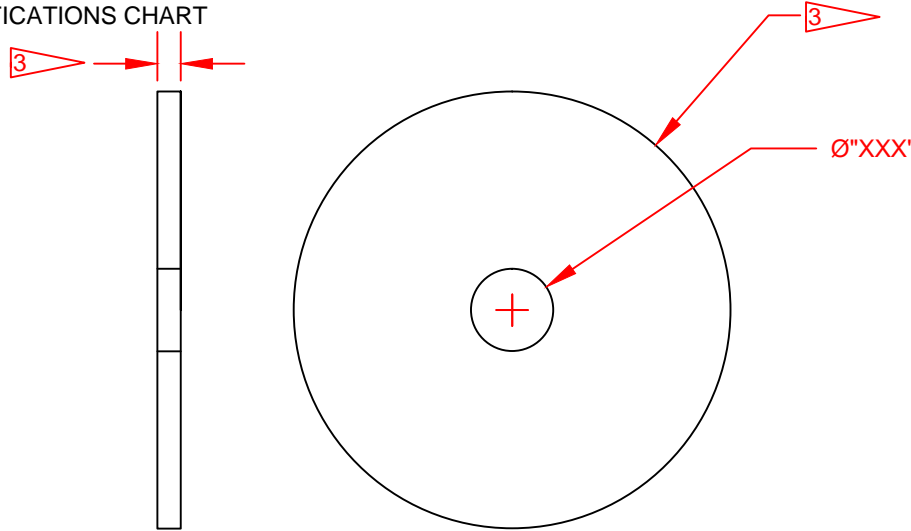


**NOTES:**

1. LAST DASH NO. "XXX" INDICATES MICRON SIZE OF THRU HOLE.  
Ex. XX-3/8-DISC-200 -INDICATES 200 MICRON THRU HOLE
2. "XX" INDICATES MATERIAL.  
Ex. GA-3/8-DISC-XXX -INDICATES GLASS AS MATERIAL
3. REFER TO SPECIFICATIONS CHART

REV	DESCRIPTION	INCORP BY	DATE



**MATERIAL "XX" SPECIFICATIONS**

MATERIAL	SS-302/304 PER ASTM A666	SS-302/304 PER ASTM A666 (BLACKENED FINISH PER SOP 037-BLACK)	SS-302/304 PER ASTM A666 (FLAT WHITE FINISH PER SOP 037-WHITE)	SS-302/304 PER ASTM A666 (TIGHTER TOLERANCES)	GLASS (BOROSILICATE)	PTFE TEFLON																																																																				
DESIGNATION	SS	BSS	IR-SS	OSS	GA	TF																																																																				
DIAMETER	9.5mm +0.025 / -0.050mm (0.374in +0.000984 / -0.00197in)	9.5mm +0.025 / -0.050mm (0.374in +0.000984 / -0.00197in)	9.5mm +0.025 / -0.050mm (0.374in +0.000984 / -0.00197in)	9.5mm +0.025 / -0.050mm (0.374in +0.000984 / -0.00197in)	9.5mm +0.025 / -0.050mm (0.374in +0.000984 / -0.00197in)	9.5mm +0.025 / -0.050mm (0.374in +0.000984 / -0.00197in)																																																																				
THICKNESS	0.013 - 0.050mm (0.000512 - 0.00197in)	0.013 - 0.050mm (0.000512 - 0.00197in)	0.013 - 0.050mm (0.000512 - 0.00197in)	0.013mm (0.000512in)	0.200 - 0.250mm (0.007874 - 0.00984in)	0.254 - 0.381mm (0.01000 - 0.01500in)																																																																				
CENTERING	±0.125mm (±0.00492in)	±0.125mm (±0.00492in)	±0.125mm (±0.00492in)	±0.125mm (±0.00492in)	±0.250mm (±0.00984in)	±0.125mm (±0.00492in)																																																																				
APERTURE TOLERANCES	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Tolerance +/-</th> </tr> </thead> <tbody> <tr> <td>0.5-1µ</td> <td>50%</td> </tr> <tr> <td>2µ</td> <td>40%</td> </tr> <tr> <td>3µ</td> <td>20%</td> </tr> <tr> <td>4-7µ</td> <td>15%</td> </tr> <tr> <td>8-100µ</td> <td>10%</td> </tr> <tr> <td>150µ+</td> <td>5%</td> </tr> </tbody> </table>	Diameter	Tolerance +/-	0.5-1µ	50%	2µ	40%	3µ	20%	4-7µ	15%	8-100µ	10%	150µ+	5%	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Tolerance +/-</th> </tr> </thead> <tbody> <tr> <td>5µ</td> <td>15%</td> </tr> <tr> <td>10 - 100µ</td> <td>10%</td> </tr> <tr> <td>250 - 1000µ+</td> <td>5%</td> </tr> </tbody> </table>	Diameter	Tolerance +/-	5µ	15%	10 - 100µ	10%	250 - 1000µ+	5%	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Tolerance +/-</th> </tr> </thead> <tbody> <tr> <td>20 - 100µ</td> <td>10%</td> </tr> <tr> <td>150µ+</td> <td>5%</td> </tr> </tbody> </table>	Diameter	Tolerance +/-	20 - 100µ	10%	150µ+	5%	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Tolerance +/-</th> </tr> </thead> <tbody> <tr> <td>1 - 2µ</td> <td>40%</td> </tr> <tr> <td>3µ</td> <td>30%</td> </tr> <tr> <td>4 - 5µ</td> <td>10%</td> </tr> <tr> <td>6 - 9µ</td> <td>6%</td> </tr> <tr> <td>10 - 17µ</td> <td>7%</td> </tr> <tr> <td>20 - 75µ</td> <td>5%</td> </tr> <tr> <td>100 - 200µ</td> <td>3%</td> </tr> <tr> <td>1000µ+</td> <td>1%</td> </tr> </tbody> </table>	Diameter	Tolerance +/-	1 - 2µ	40%	3µ	30%	4 - 5µ	10%	6 - 9µ	6%	10 - 17µ	7%	20 - 75µ	5%	100 - 200µ	3%	1000µ+	1%	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Tolerance +/-</th> </tr> </thead> <tbody> <tr> <td>5 - 9µ</td> <td>+/- 2µ</td> </tr> <tr> <td>10 - 19µ</td> <td>20%</td> </tr> <tr> <td>20 - 50µ</td> <td>15%</td> </tr> <tr> <td>51 - 300µ</td> <td>10%</td> </tr> <tr> <td>301µ+</td> <td>7.5%</td> </tr> </tbody> </table>	Diameter	Tolerance +/-	5 - 9µ	+/- 2µ	10 - 19µ	20%	20 - 50µ	15%	51 - 300µ	10%	301µ+	7.5%	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Tolerance +/-</th> </tr> </thead> <tbody> <tr> <td>10 - 15µ</td> <td>20%</td> </tr> <tr> <td>20 - 100µ</td> <td>15%</td> </tr> <tr> <td>150 - 300µ</td> <td>10%</td> </tr> <tr> <td>300µ+</td> <td>7.5%</td> </tr> </tbody> </table>	Diameter	Tolerance +/-	10 - 15µ	20%	20 - 100µ	15%	150 - 300µ	10%	300µ+	7.5%
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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DECIMAL VALUES ARE SHOWN WITH DECIMAL TOLERANCE VALUES  
 DECIMAL X = ± .1 TOLERANCES APPLIED  
 PLACES .XX = ± .01 TO THE PRINT  
 IN THE .XXX = ± .005 TO THE PRINT  
 PRINT .XXX = ± .005 TO THE PRINT  
 FRACTIONAL AND ANGULAR VALUES ARE SHOWN WITH FRACTIONAL OR ANGULAR TOLERANCE VALUES.  
 FRACTIONS = ± 1/16  
 ANGLES = ± 1°

**Material**  
REFER TO CHART

**Used On**  
-

APPROVALS	DATE
DRAWN C. DRAPER	1/13/2016
CHK J. SCHUSTER	1/13/2016
ENGR J. SCHUSTER	1/13/2016

SHEET: 1 OF 1 DO NOT SCALE

**Drawing Number**  
A XX-3/8-DISC-XXX

**Drawing Name**  
STANDARD APERTURE

**REV**  
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