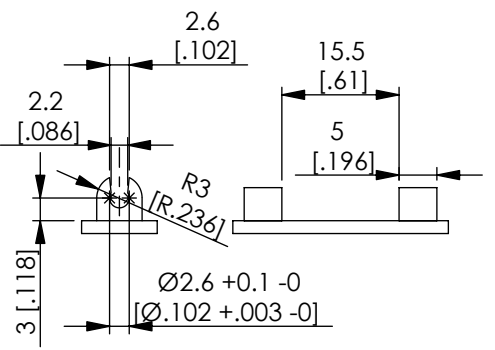


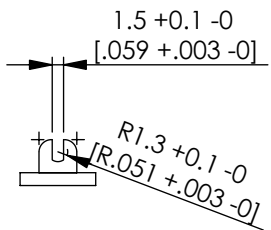
REV.	MODIFICATION.	DATE	DRN
01	NEW DRAWING	10/07/04	NJB
02	IMPERIAL DIMENSIONAL VALUES ADDED	06/09/04	NJB
03	ECN2006-049	20/02/06	OW
04	ECN2007-091	02/05/07	SF
05	CO2010162	27/03/08	SF



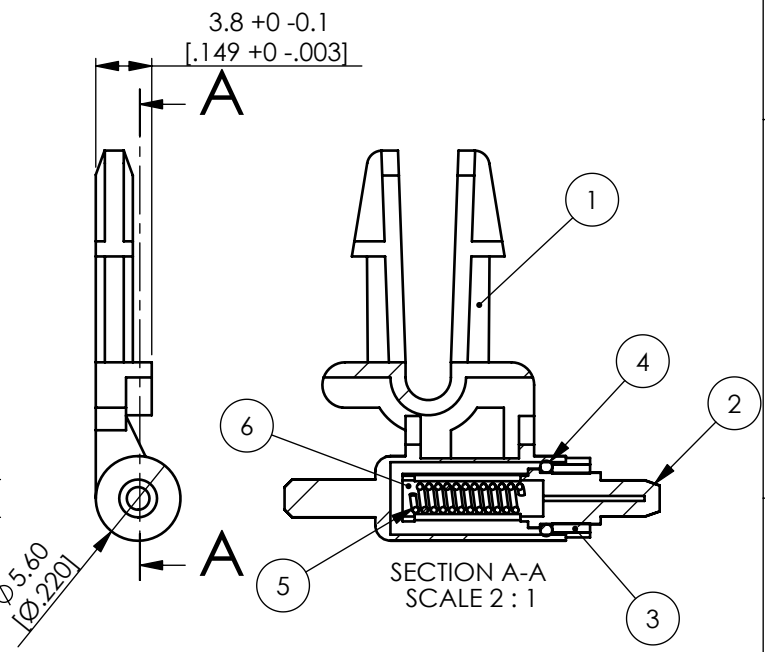
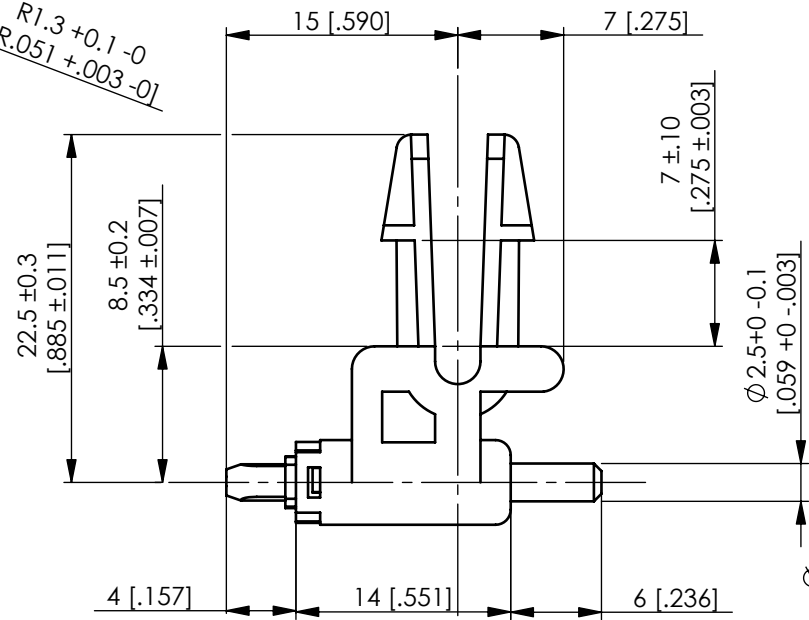
RECOMENDED SHAFT FIXTURE SHAPE

NOTES:

- 1a) METRIC PRIMARY UNITS:mm
- 1b) IMPERIAL SECONDARY UNITS: [inches]
- 2) LOAD TORQUE ON AXIS AT HORIZONTAL POSITION & 90° OPENING TIME, SEE TABLE.
- 3) DURABILITY:
  - 1 CYCLE = 90°- 0- 90°
  - WHEN OPERATED FOR 1 CYCLE REPEATEDLY THE CHANGE OF OPERATION TIME IS <± 20%.
- 4) OPERATING TEMPERATURE: 0 TO 40°C.
- 5) STORAGE TEMPERATURE: -20°C TO 60°C.
- 6) HEAT CYCLE:
  - 1 CYCLE = 6 HOURS @ 60°C & 6 HOURS @ -20°C
  - AFTER 2 HEAT CYCLES THE CHANGE OF OPERATION TIME AT ROOM TEMPERATURE SHOULD BE < ±20%.
- 7) REVOLUTION ANGLE 90°.
- 8) MAX REVOLUTION ANGLE: 130° ±10°
- 9) COLOUR CODED NEXT TO INJECTION POINT TO IDENTIFY.



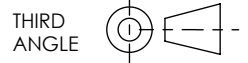
RECOMENDED HOLE SHAPE



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GENERAL TOLERANCES ±0.25 [0.010] UNLESS OTHERWISE STATED  
 1 DECIMAL PLACE ±  
 2 DECIMAL PLACES ±  
 ANGULAR ±1°



MATERIAL: SEE TABLE		COLOUR: SEE TABLE	
DESCRIPTION: RAD-XX		PART No: SEE TABLE	
DRG No: 04-073	NPR No: 2001-302	SHEET SIZE A4	
DRN OW	DATE 20/02/06	CHKD TC	DATE 20/02/06
SCALE NTS		SHEET No. 1 OF 1	

CASE	PC	BLACK	161	1
SHAFT	PC	BLACK	161	2
CAP	POM	BLUE	160	3
O-RING	SILICON RUBBER	RED	296	4
SPRING	SWP-B	N/A	309	5
SILICONE OIL	SILICONE OIL	TRANSPARENT	209	6
COLOUR	N/A	N/A	239	7
MARKING				
PART NAME	MATERIAL	COLOUR	RMS No.	No.
RAD-30	RED	30 gf.cm	0.6 ±0.4 sec	
RAD-25	WHITE	25 gf.cm	0.6 ±0.4 sec	
RAD-20	NO MARKING	20 gf.cm	0.6 ±0.4 sec	
PART NUMBER	COLOUR CODE	LOAD TORQUE	90° OPENING TIME	

