

SAFETY DETENT PLUNGER

|                                 | <u>CURRENT</u><br>120° | <u>PROPOSED</u><br>100°    |
|---------------------------------|------------------------|----------------------------|
| NOSE ANGLE                      |                        |                            |
| SURFACE AREA (in <sup>2</sup> ) | .0302                  | .0314<br>(Increase of 39%) |
| SAFE OFF FORCE (lbs)            | 1.75                   | 2.50<br>(Increase of 39%)  |

**MODEL 780  
SAFETY LEVER AND DETENT SYSTEM**

SAFETY DETENT PLUNGER SPRING

|                    | <u>CURRENT</u> | <u>PROPOSED</u> |
|--------------------|----------------|-----------------|
| O.A.L. (in)        | .370           | .253            |
| W.D. (in)          | .015           | .018            |
| RATE (lbs)         | 10.6           | 59.6            |
| LOAD @ .205" (lbs) | 1.75 ± .2      | 2.85 ± .2       |

**MODEL 788 SAFETY IMPROVEMENTS**

- **INCREASED SAFETY OFF FORCE**
- **IMPROVED LOCATION OF SAFETY BUTTON**
- **ONE PIECE DESIGN SAFETY LEVER**
- **COST SAVINGS**

**INVESTIGATION STAGES**

• **SAFETY DETENT PLUNGER**

• **SAFETY DETENT SPRING**

• **SAFETY LEVER**  
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**MODEL 788 SAFETY**

- **POTENTIAL PROBLEM**
- **SAFETY INVESTIGATION**
- **SOLUTION**