Pressure Switch Setup Dimensions

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PURPOSE

To outline the trip screw height, leaf spring height and stem travel at set pressure which are set using gauges and fixturing. The stem travel at test pressure is not user controlled but is provided here to ensure the equipment is performing as expected. The set and test pressures are also outlined as per TB-PS-007 for the Argus Pressure Switches.

1.0 SCOPE

These dimensions apply to Argus Pressure Switch Models AEF/MBF 1.0 – 50.0 including the high temperature (HT) options.

2.0 DIMENSIONS

Table 1: Dimensional Summary of Pressure Switch Setup Values

Model	Trip Screw Height	Stem Travel at Set Pressure	Stem Travel at Test Pressure	Leaf Spring Height
	h (in)	t (in)	t (in)	y(in)
Date of Manufacture: 2025 to Present [1,2] (SN's: after PS173784)				
AEF/MBF -1.0, -2.0, -20.0, -50.0	.040 ± .005	.004 - .006	.011 - .018	.245±.010
AEF/MBF -8.0, -14.0		.009 - .011	.018 - .020	
Date of Manufacture: 2018 – 2025 [1,3] (SN's: PS136291 - PS174000)				
AEF/MBF -1.0, -2.0, -20.0, -50.0	.040-.050	.004 - .006	.011 - .018	.245±.020
AEF/MBF -8.0, -14.0		.009 - .011	.018 - .020	

Notes:

1) The Pressure Switch Serial Number range is approximate, for reference only.
2) The Spacer height changed from .185±.005 to .160±.001
3) The Leaf Spring was bent down to ensure contact on trip screw

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PERMIT TO PRACTICE
ARGUS MACHINE CO LTD
RM SIGNATURE:
RM APEGA ID #: 146156
DATE: 26 Feb 2025
PERMIT NUMBER: P008389
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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Table 2: Dimensional Summary of Historical Pressure Switch Setup Values

Model	Trip Screw Height	Stem Travel at Set Pressure	Stem Travel at Test Pressure
	h (in)	t (in)	t (in)
Date of Manufacture: 2015 – 2017 [4] (SN's: PS120425 - PS136290)			
AEF/MBF -1.0, -2.0, -20.0, -50.0	.055 - .060	.004 - .006	.011 - .018
AEF/MBF -8.0, -14.0	.055 - .060	.009 - .011	.018 - .020
Date of Manufacture: 2013 – 2014 [4] (SN's: PS106169 - PS120424)			
AEF/MBF -1.0, -2.0, -20.0, -50.0	.060-.065	.004 - .006	.011 - .018
AEF/MBF -8.0, -14.0	.060-.065	.009 - .011	.018 - .020

Notes:

4) The Pressure Switch Serial Number range is approximate, for reference only.

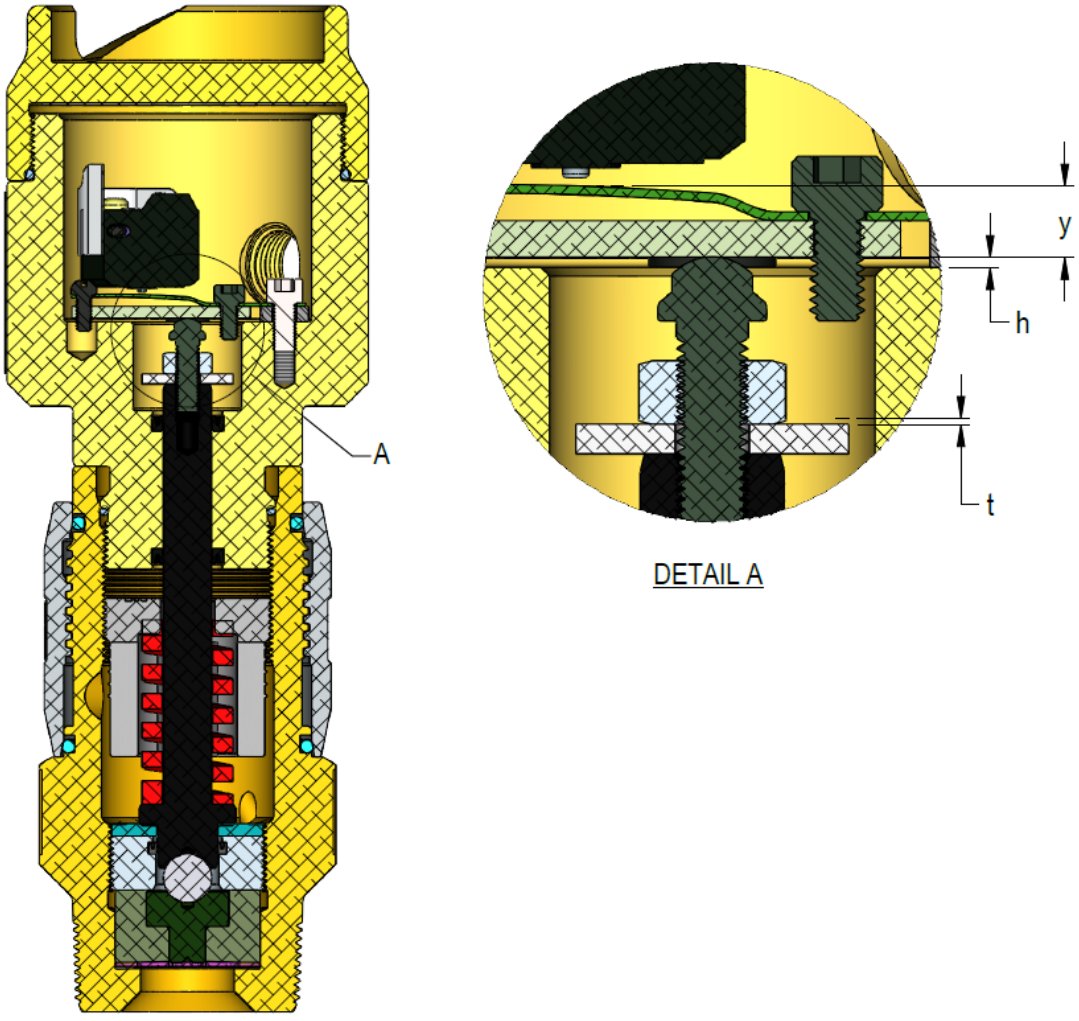


Figure 1: Pressure Switch Components