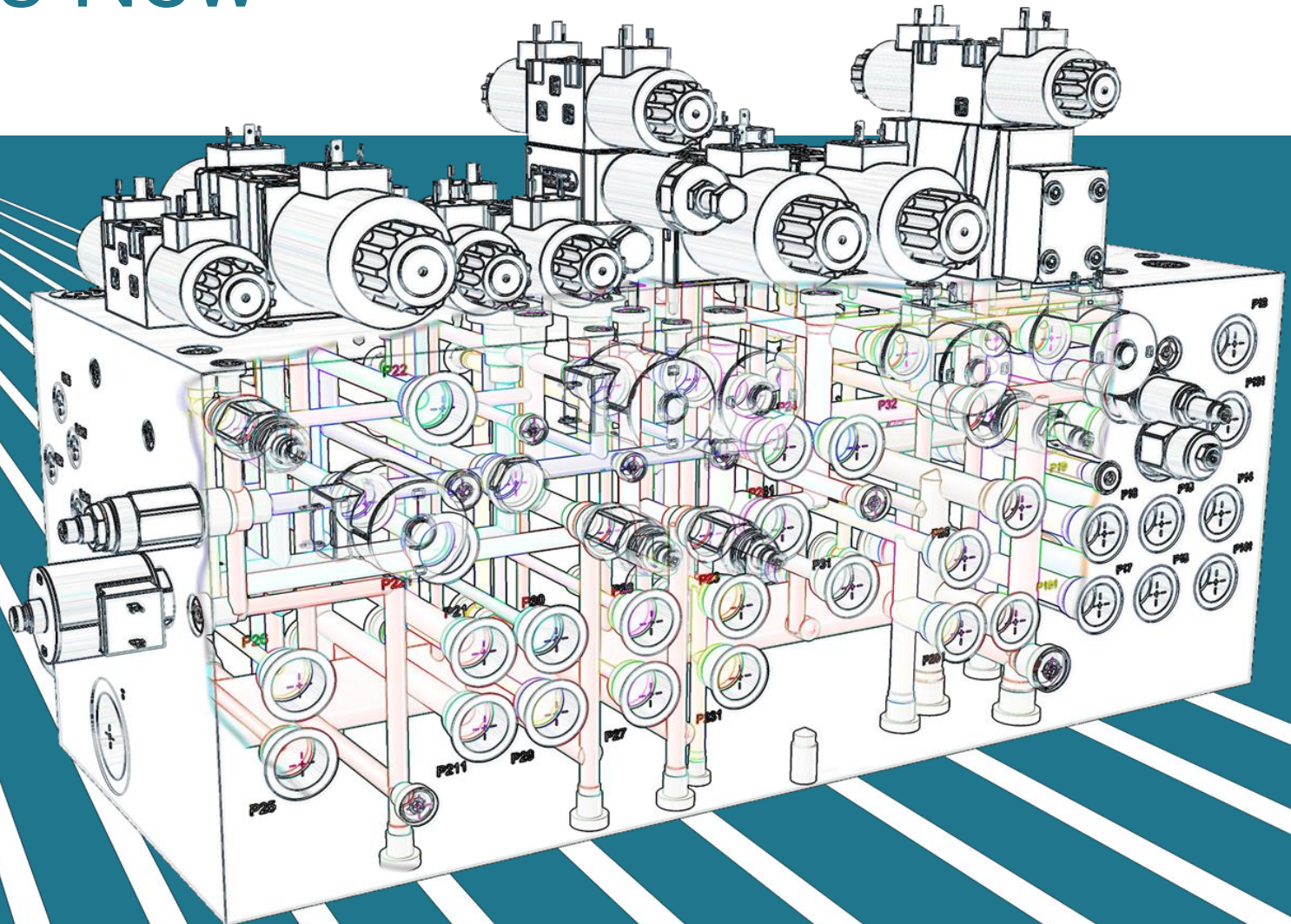


# MDTools® 955



## What's New

CERTIFIED  
Solution  
Partner



# MDTools® 955 What's New?

Design manifolds faster in Virtual Cavity Design Mode

Group Cavities by Face in MDTools Browser

Show Engraved Text in MDTools Browser

Compare two Manifolds and List the Differences

Specify Net Operating Pressure

Validate Construction Port Pressure Rating per Net Operating Pressure

Automatic Machining Drawing supports AutoCAD drawing files(.dwg) templates

Place drawing view name outside the view boundary

Show/Hide Undercuts in Drawing

Machining Callout Position Retained

Set Drill Depths in Settings

Control Text Height of Annotations in a Drawing

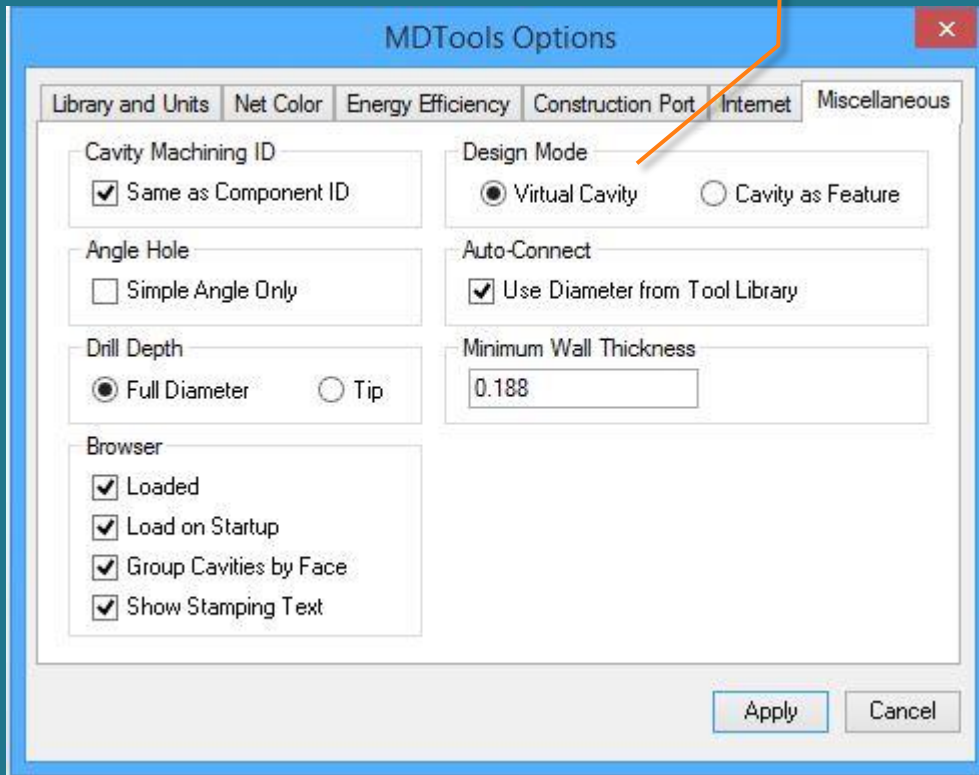
Modify Component ID of Parent Cavity while inserting Orific Plug

Use \$STEP in O-ring Machining Sequence



# Design manifolds faster in Virtual Cavity Design Mode

Select Virtual Cavity Design Mode in Options

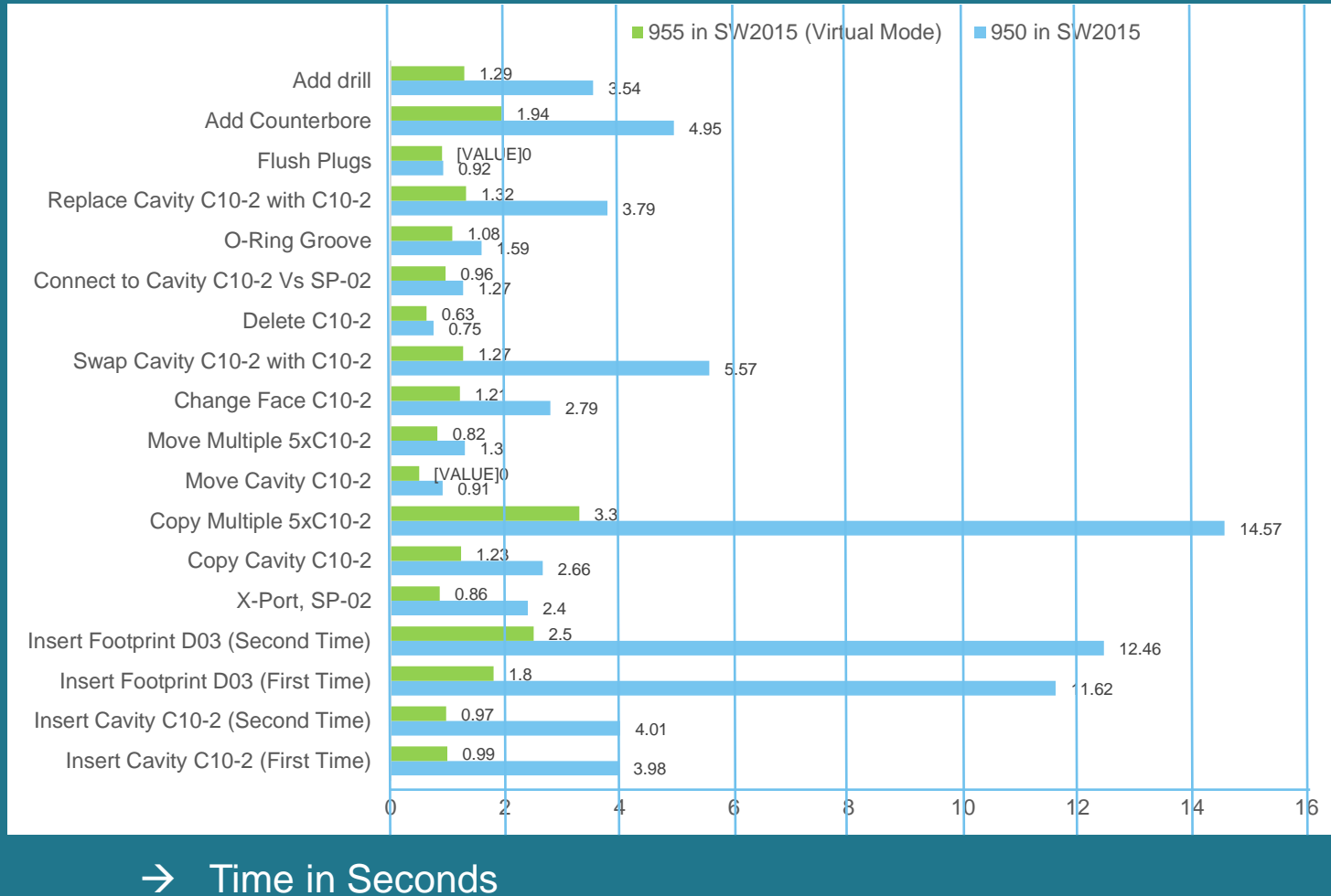


Virtual design must be converted into feature design to use in drawing and assembly environments

You can also convert manifolds designed with older versions of MDTools, into virtual designs using the *Convert* command.



# Performance Chart 955 Virtual Vs 950 Feature\*



↑ Commands

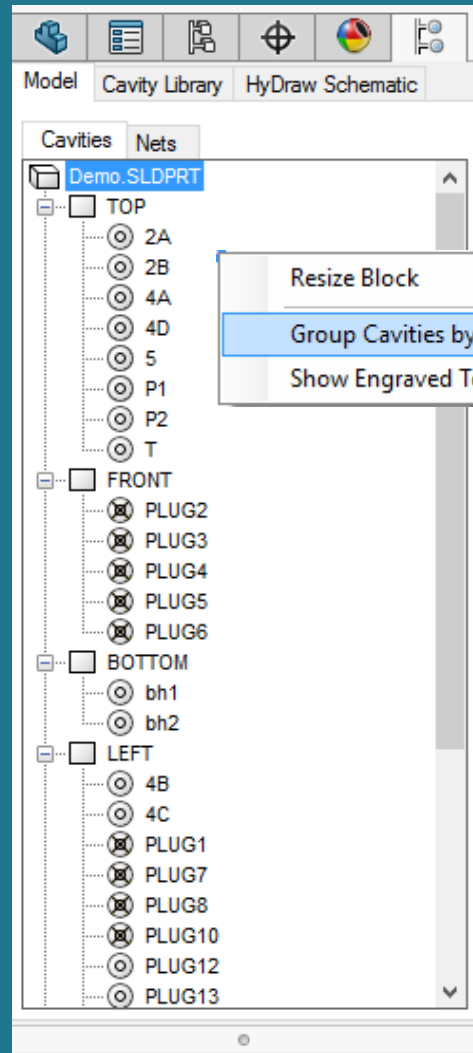
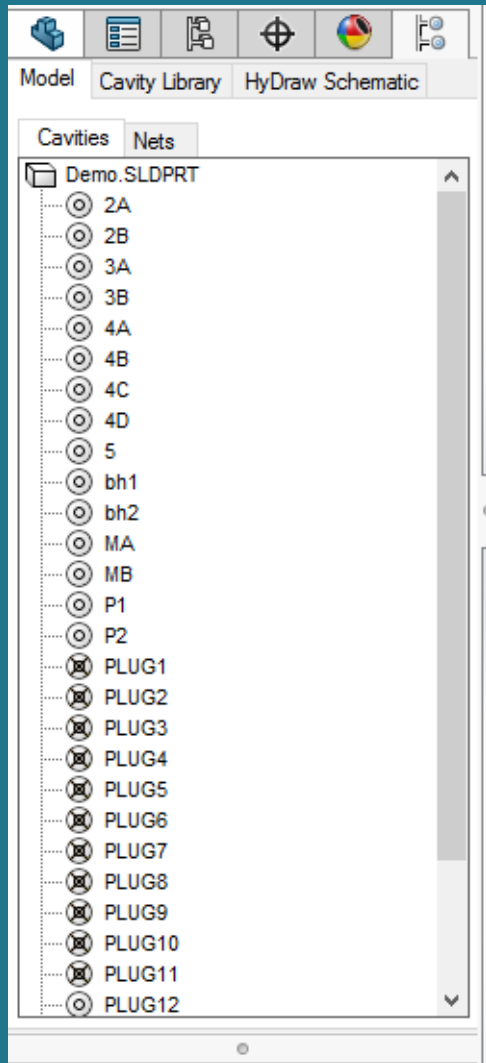
→ Time in Seconds

\* Tested on Empty Block with AMD 4.0 Ghz Octacore System, RAM – 8 GB RAM and may vary on different hardware.





# Group Cavities by Face in the MDTools Browser

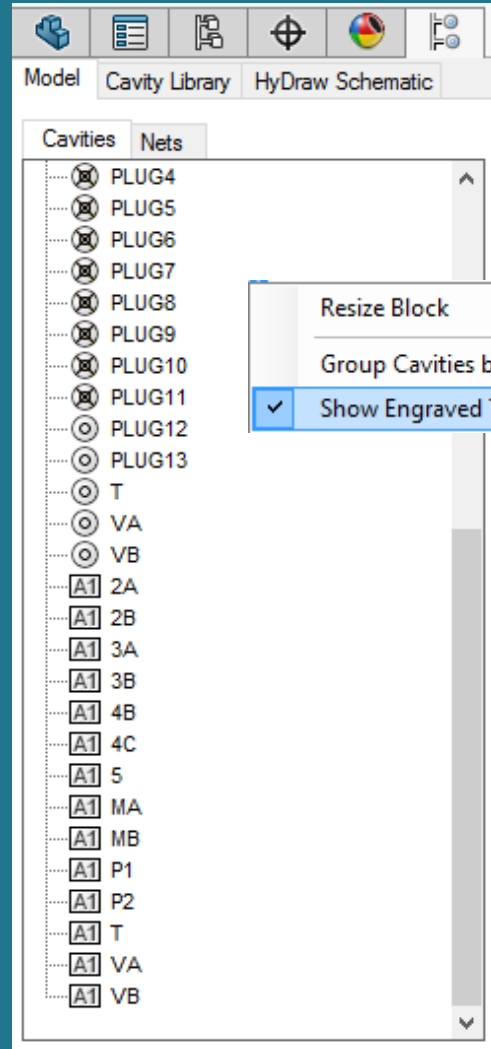


Option to group cavities by face

Note: This option is already available in the Miscellaneous tab of MDTools *Options*.



# Show Engraved Text in the MDTools Browser



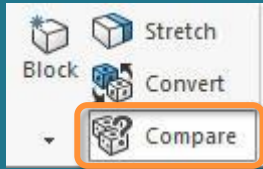
Option to show stamping text in MDTools browser

Note: This option is already available in the Miscellaneous tab of MDTools *Options*.



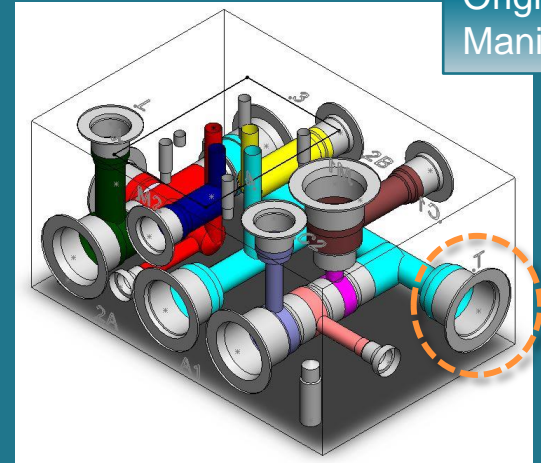
# Compare Two Manifolds and List the Differences

Location In MDTools Ribbon

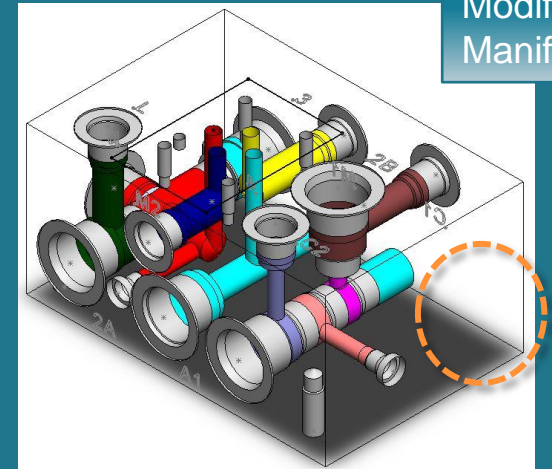


Differences are listed in the report

Original Manifold

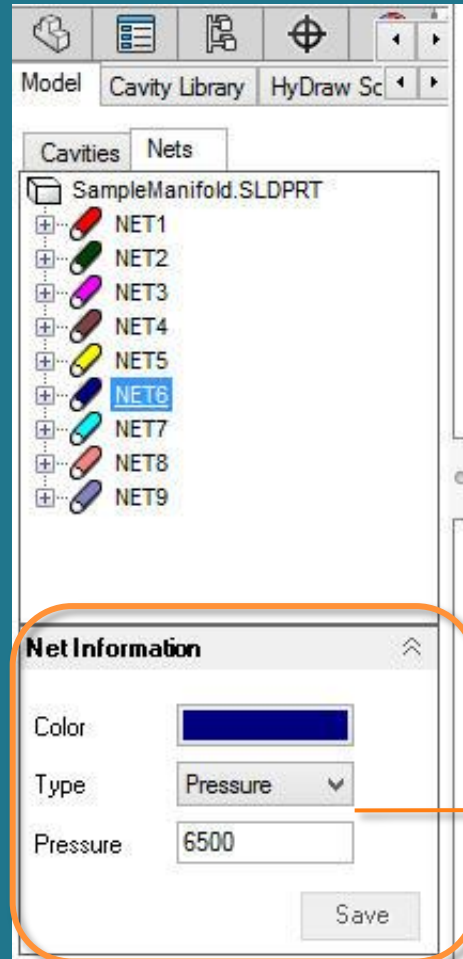


Modified Manifold





# Specify Net Operating Pressure



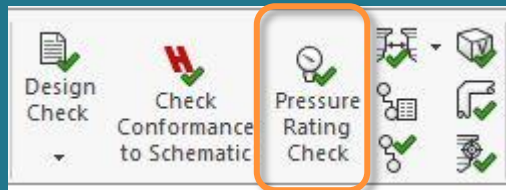
Specify net operating pressure to validate X-Ports pressure rating when making connections to the net



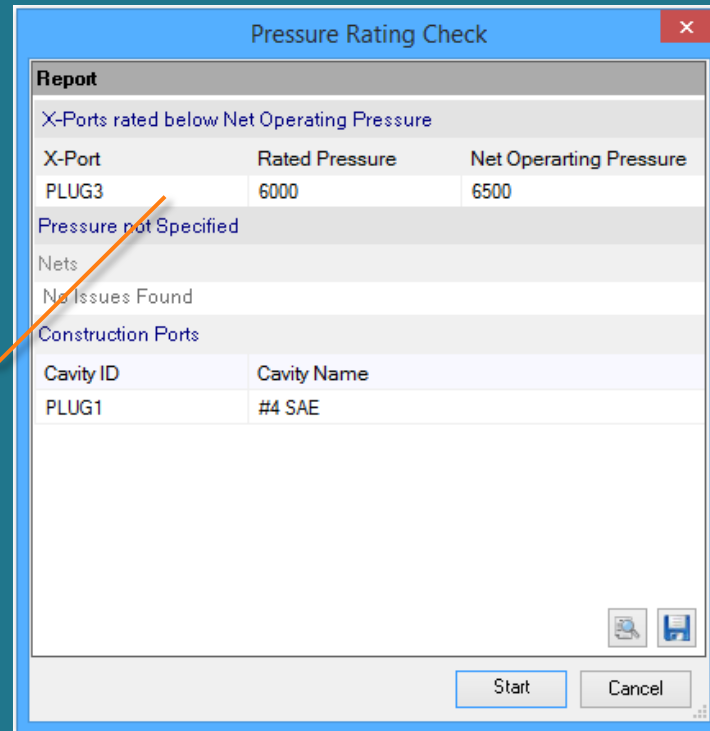


# Validate Construction Ports Pressure Rating per Net Operating Pressure

## Location In MDTools Ribbon



X-Ports listed whose Rated Pressure is below Net Operating Pressure

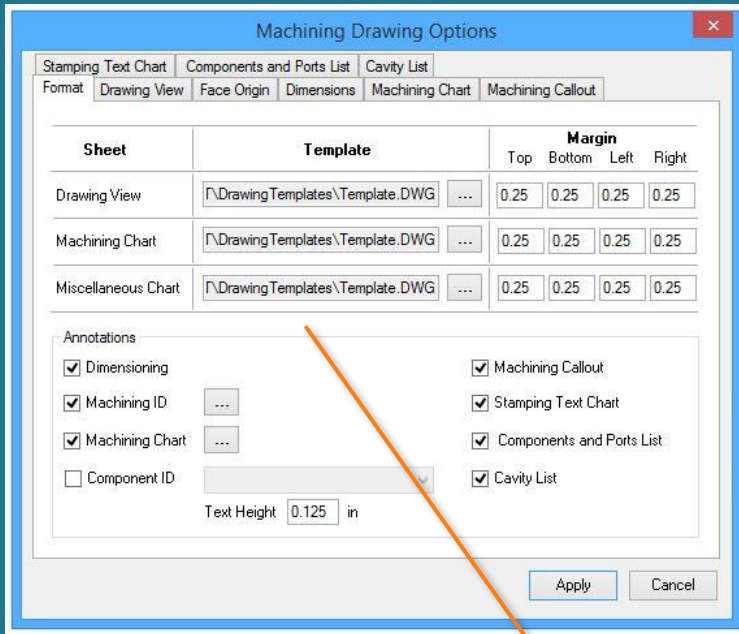


Note: 1. MDTools will also validate construction ports at the time of connection.

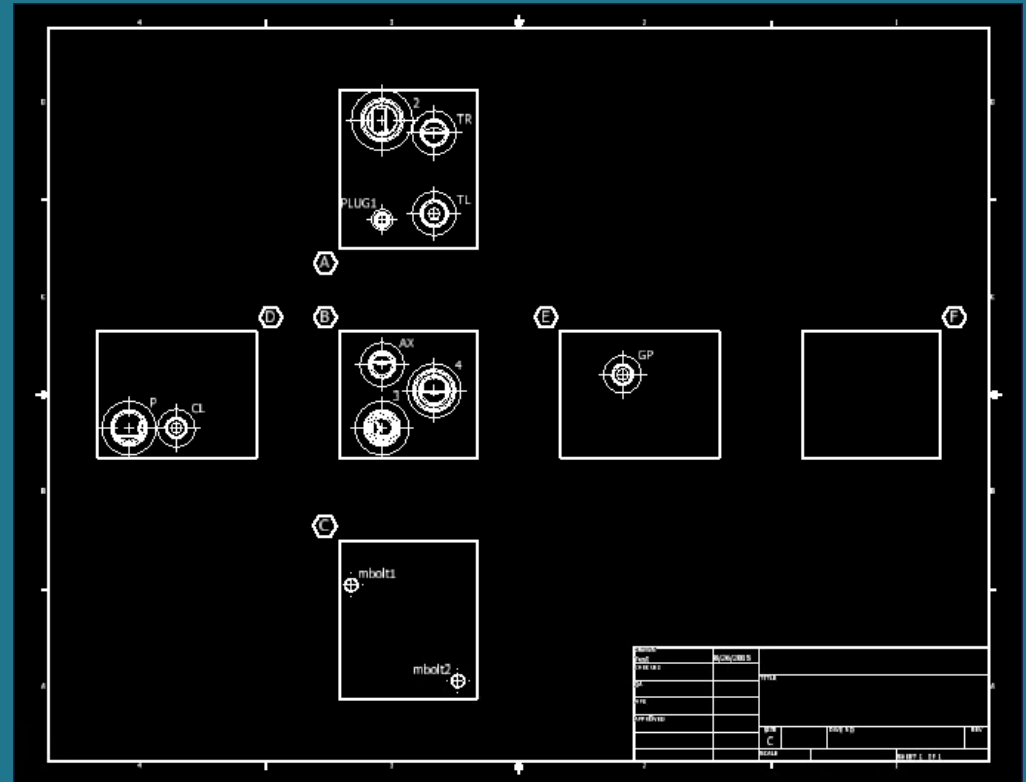
2. Change construction port pressure in the MDTools *Edit Cavity* command and Net operating pressure in MDTools Connectivity browser.



# Automatic Machining Drawing supports AutoCAD drawing file (.dwg) templates



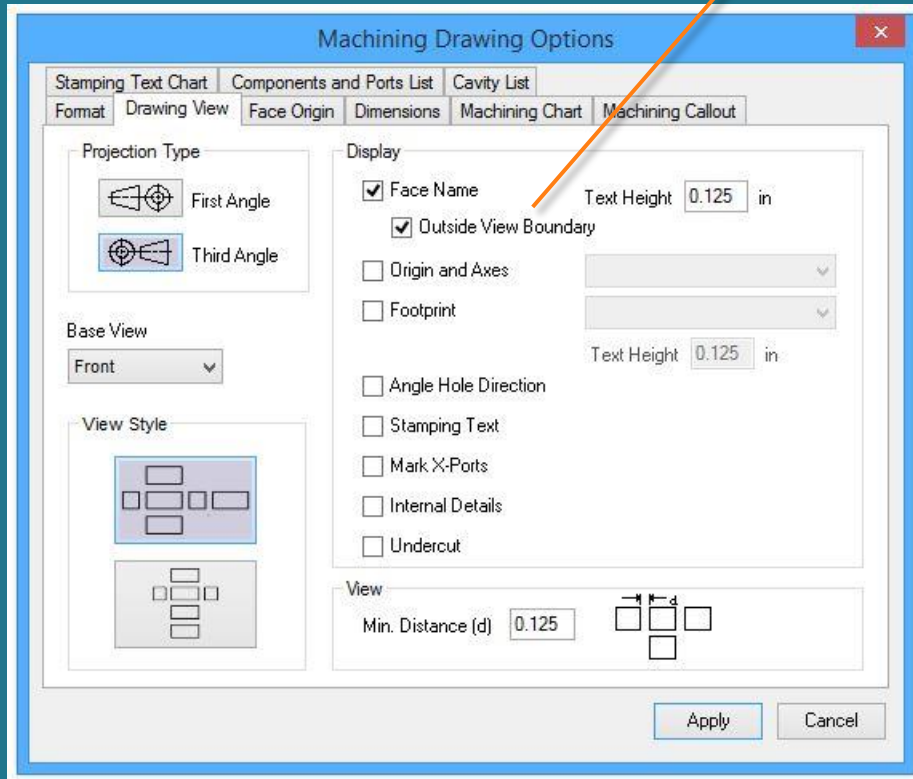
Use AutoCAD drawing files (.dwg) as templates for Automatic Machining Drawing



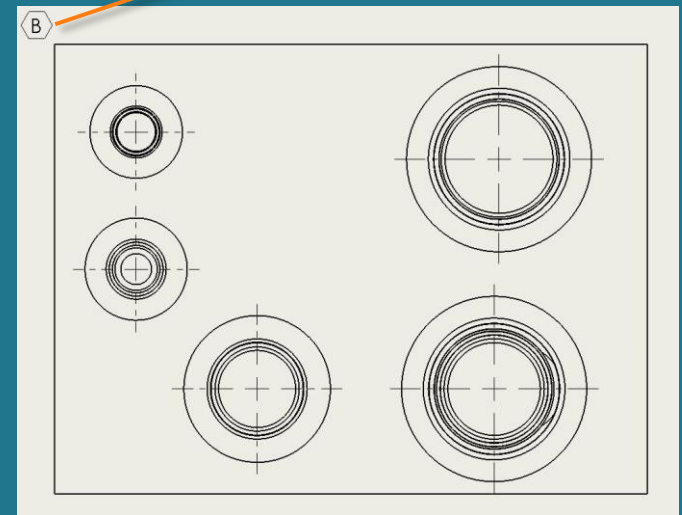


# New Drawing Display Option

Face Name location option



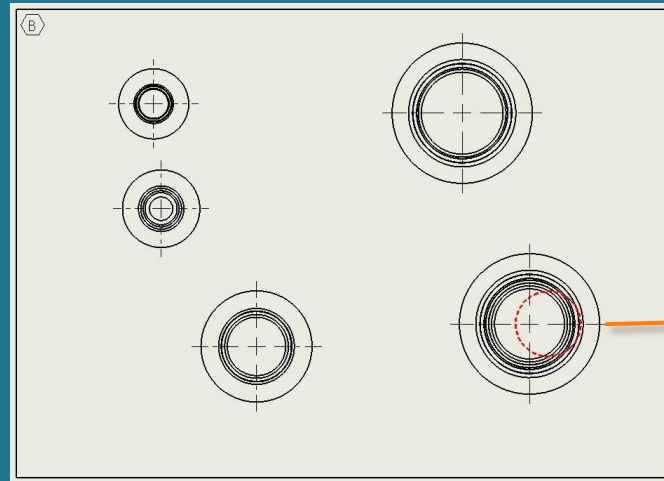
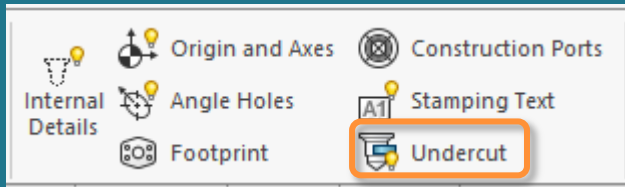
Face Name outside view boundary



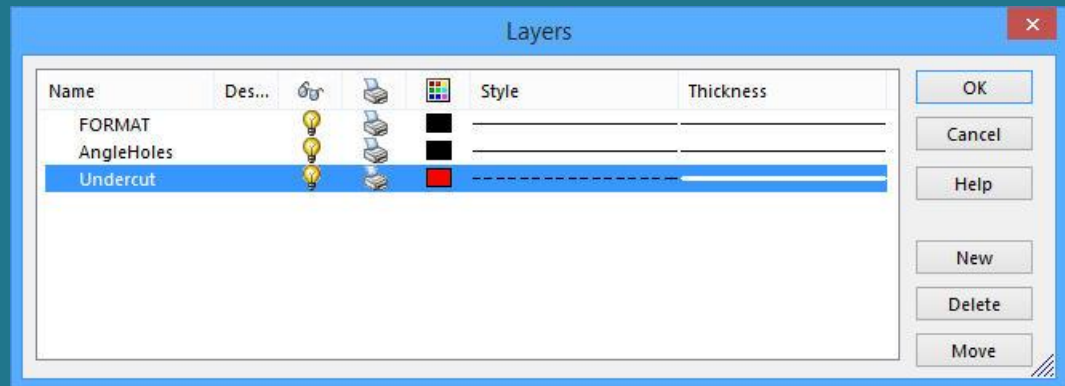


# Show/Hide Undercuts in a Drawing

Location In MDTools Ribbon



Top view of undercut



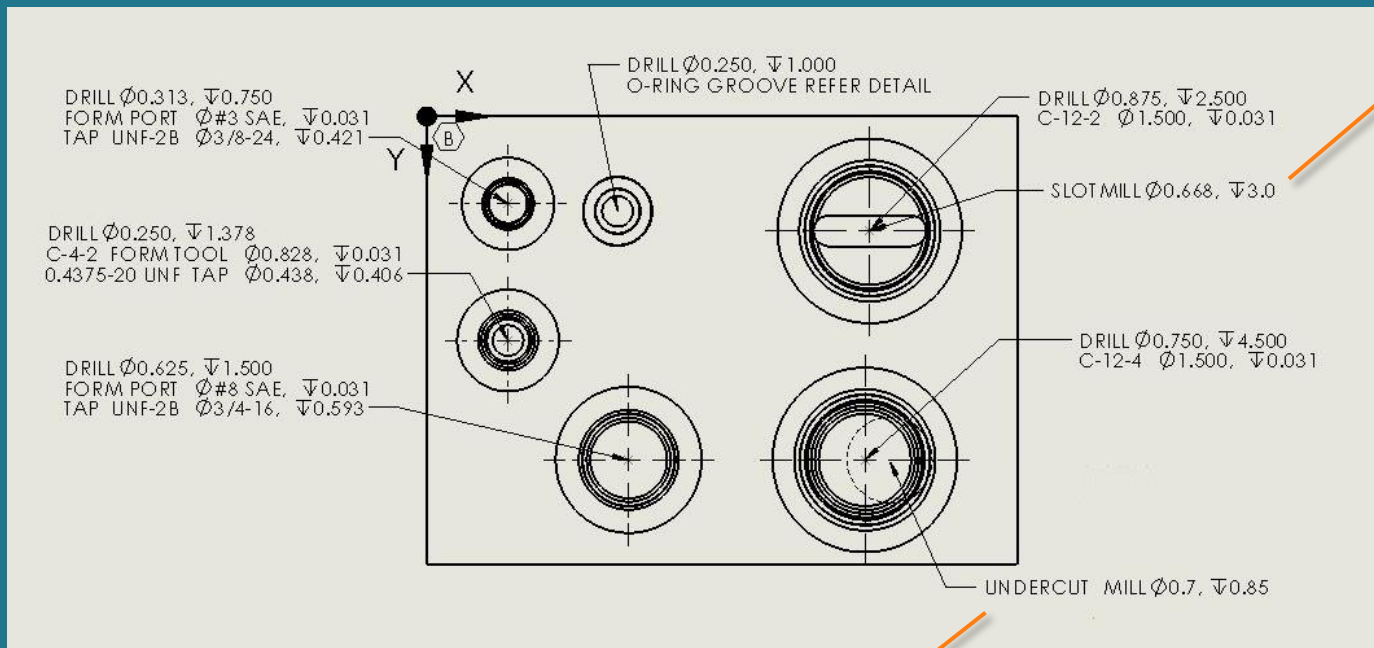
Note: Undercuts will be placed on a separate layer.



# Machining Callout Position Retained

When the command is re-run, the location of existing callouts are maintained

Machining callout for slot

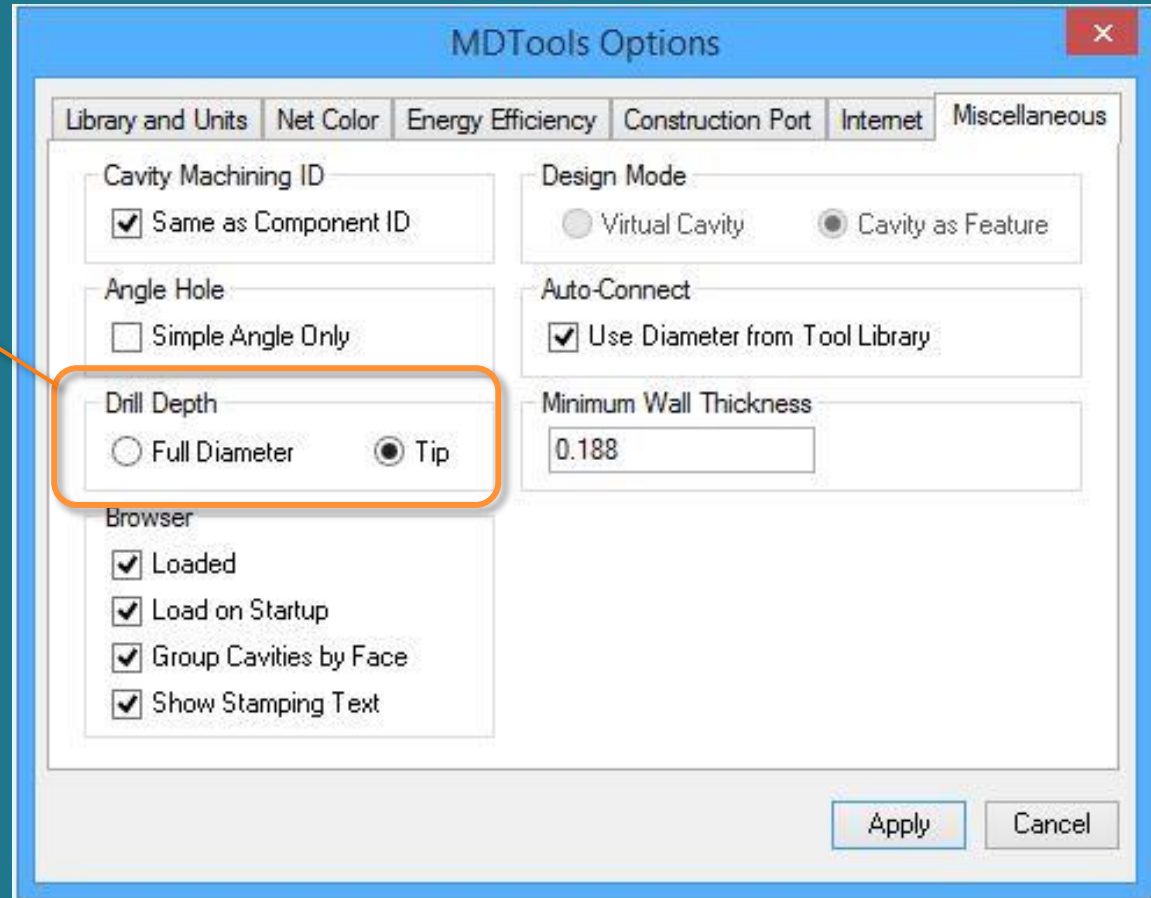


Machining callout for undercut



# Global Setting for Drill Depth Measurement

Select global Drill Depth preference in Options

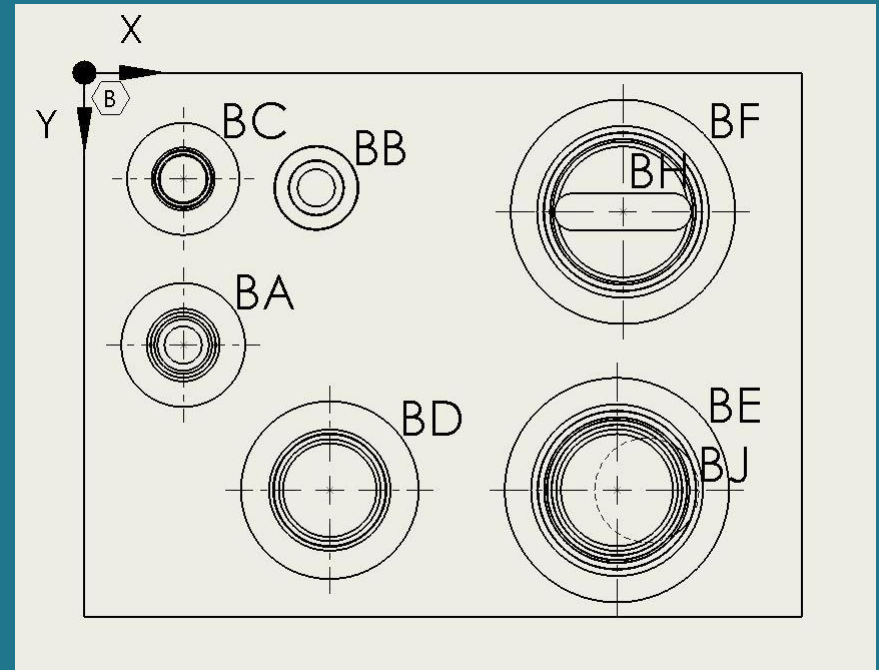
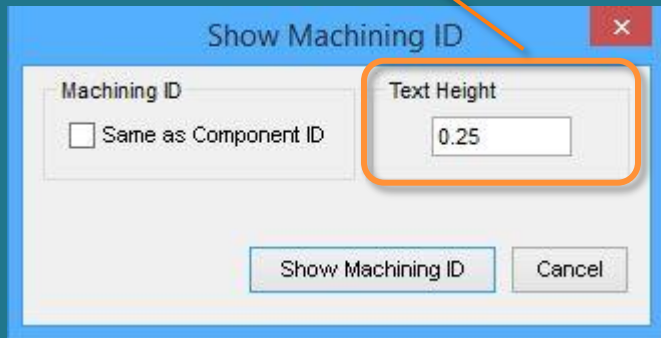


Note: You can override the Drill Depth settings locally while using the relevant commands.



# Control Text Height of Annotations in a Drawing

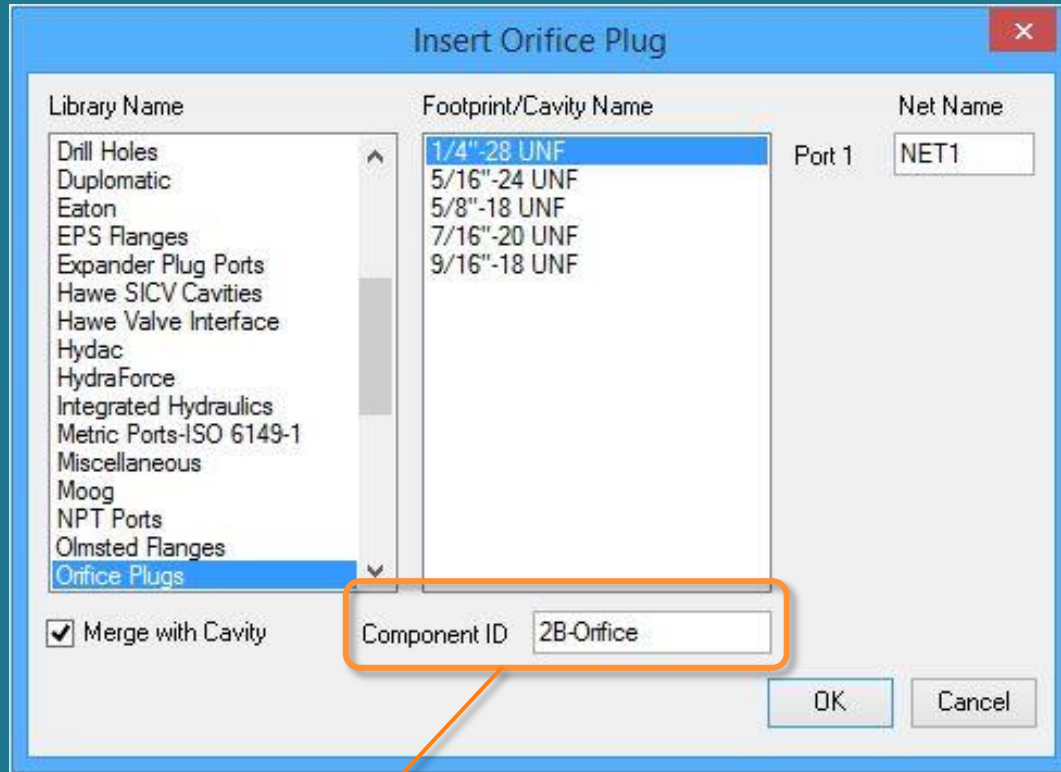
Enter Text Height for Machining ID



Note: Option to define Text Height is also available for *Show Component ID* and *Footprint* commands.



# Modify the Component ID of Parent Cavity when Inserting an Orifice Plug



Edit the Component ID of the parent cavity when merged with an orifice





# Use \$STEP in O-ring Machining Sequence

**Edit O-ring Groove**

Groove     Counter bore

Dash #	ID	OD	Width
-011	5/16	7/16	1/16
-012	3/8	1/2	1/16
-013	7/16	9/16	1/16
-014	1/2	5/8	1/16
-015	9/16	11/16	1/16
-016	5/8	3/4	1/16

Show All

Operation	Tool Name	Diameter	Depth
O-RING GROOVE	REFER DET.	\$STEP	\$STEP

OK    Cancel

Values appear in Machining Chart

Name	Operation	Tool/Remarks	Diameter	Depth
AC1	DRILL		1/4	1.000
	O-RING GROOVE	REFER DETAIL	1/2	0.050
AC2	DRILL		1/4	1.000
	O-RING GROOVE	REFER DETAIL	1/2	0.050
AD	DRILL		1/4	2.025
	O-RING GROOVE	REFER DETAIL	1/2	0.050
AE	DRILL		1/4	2.000
	O-RING GROOVE	REFER DETAIL	1/2	0.050

\$STEP specified for Diameter and Depth

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 [VESTusa.com](http://VESTusa.com)