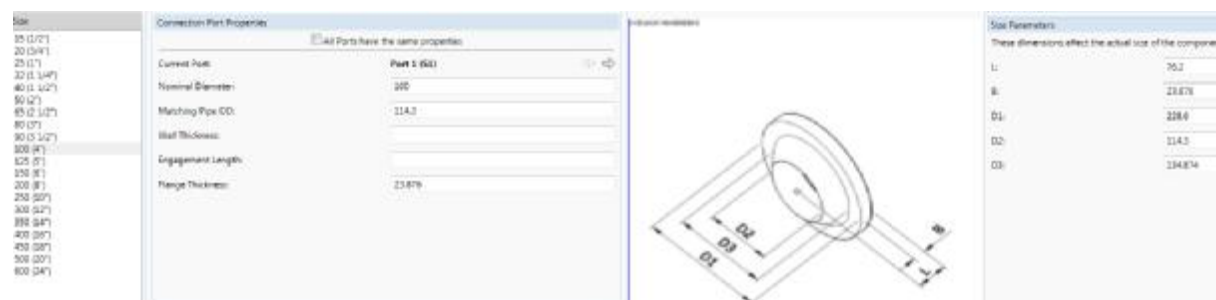
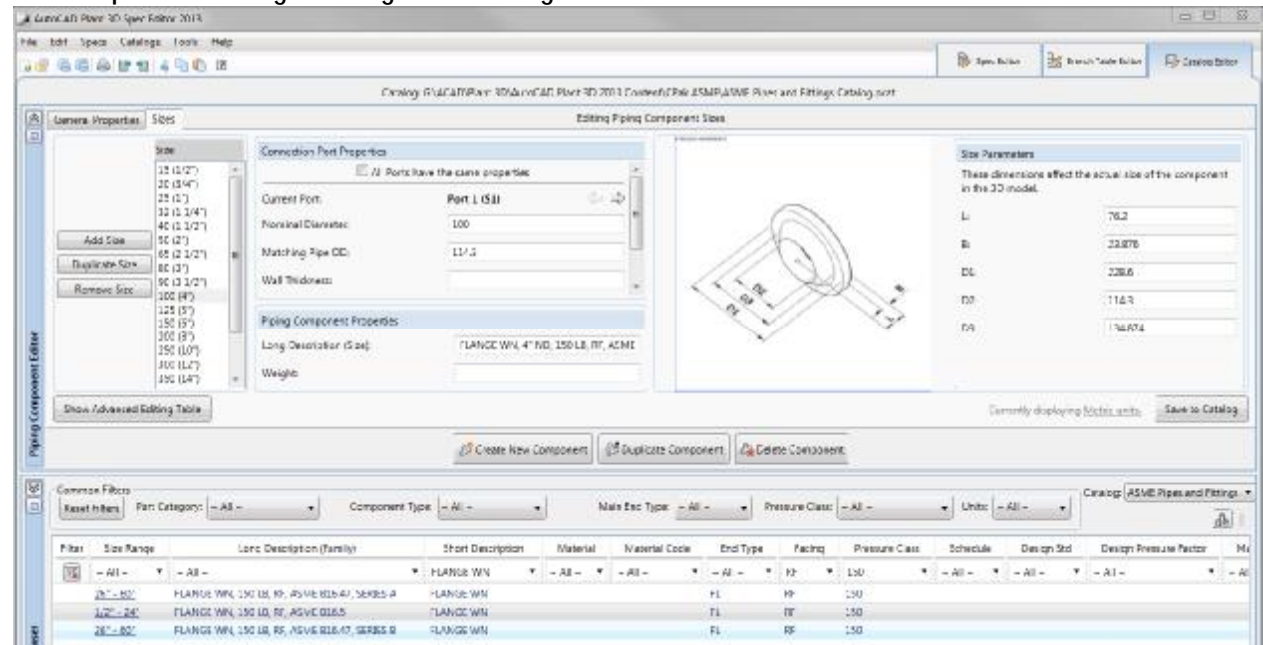


Studbolt Length: I already checked the posted comments about stud bolt length, but for a unknown reason it doesn't work for me.....

For example Weld Neck RF Flange Connection 4"- CL.150
ASME Pipes and Fittings Catalog: WNRF Flange



Flange thickness is: 23.876 mm

Connection Port Properties	
<input type="checkbox"/> All Ports have the same properties	
Current Port:	Port 1 (S1)
Nominal Diameter:	100
Matching Pipe OD:	114.3
Wall Thickness:	
Engagement Length:	
Flange Thickness:	23.876

And B: 23.876

Size Parameters	
These dimensions affect the actual size of the component in the 3D model.	
L:	76.2
B:	23.876
D1:	228.6
D2:	114.3
D3:	134.874

Bolt Set: Flange thickness is 23.876 mm Bolt length is 120 mm (120 mm is Custom setting)

Catalog: G:\ACAD\Plant 3D\AutoCAD Plant 3D 2013 Content\CPak

Editing Piping Component

Properties	Sizes
<p>Size</p> <p>15 (1/2")</p> <p>20 (3/4")</p> <p>25 (1")</p> <p>32 (1 1/4")</p> <p>40 (1 1/2")</p> <p>50 (2")</p> <p>65 (2 1/2")</p> <p>80 (3")</p> <p>90 (3 1/2")</p> <p>100 (4")</p> <p>125 (5")</p> <p>150 (6")</p> <p>200 (8")</p> <p>250 (10")</p> <p>300 (12")</p> <p>350 (14")</p> <p>400 (16")</p> <p>450 (18")</p> <p>500 (20")</p> <p>600 (24")</p>	<p>Connection Port Properties</p> <p><input type="checkbox"/> All Ports have the same properties</p> <p>Current Port: Port 1 (S1)</p> <p>Nominal Diameter: 100</p> <p>Matching Pipe OD:</p> <p>Wall Thickness:</p> <p>Engagement Length:</p> <p>Flange Thickness: 23.876</p> <p>Piping Component Properties</p> <p>Long Description (Size): STUD BOLT WITH 2 HEX. NUTS 5/8" X @@@ MM, PTF</p> <p>Weight:</p> <p>Length: 120</p> <p>Bolt Size: 5/8"</p> <p>Number In Set: 8.00</p>

Now in pipe spec:

For the 4" – CL.150 Flange Flange thickness is: 0.94 (")

Data Properties												
Data in selected group:												
Nominal	Alternate	Component	Content (See Symbol Definition)	Status	Shop/Field	Port Name	Nominal Diameter	Nominal Unit	Matching Pipe OD	Grid Type	Flange Std	Gasket Std
0.5	in		TYRFL-FLANGE, 90°-FLANG			S1	0.5	in	0.84	FL		
0.75	in		TYRFL-FLANGE, 90°-FLANG			S1	0.75	in	1.05	FL		
1	in		TYRFL-FLANGE, 90°-FLANG			S1	1	in	1.315	FL		
1.5	in		TYRFL-FLANGE, 90°-FLANG			S1	1.5	in	1.9	FL		
2	in		TYRFL-FLANGE, 90°-FLANG			S1	2	in	2.875	FL		
2.5	in		TYRFL-FLANGE, 90°-FLANG			S1	2.5	in	2.875	FL		
3	in		TYRFL-FLANGE, 90°-FLANG			S1	3	in	3.9	FL		
4	in		TYRFL-FLANGE, 90°-FLANG			S1	4	in	4.9	FL		
5	in		TYRFL-FLANGE, 90°-FLANG			S1	5	in	5.625	FL		
6	in		TYRFL-FLANGE, 90°-FLANG			S1	6	in	6.625	FL		
8	in		TYRFL-FLANGE, 90°-FLANG			S1	8	in	8.875	FL		
10	in		TYRFL-FLANGE, 90°-FLANG			S1	10	in	10.75	FL		
12	in		TYRFL-FLANGE, 90°-FLANG			S1	12	in	12.75	FL		

Std	Facing	Flange Thickness	Pressure Class	Sc
	RF	0.44	150	
	RF	0.5	150	
	RF	0.56	150	
	RF	0.68	150	
	RF	0.75	150	
	RF	0.87	150	
	RF	0.94	150	
	RF	0.94	150	
	RF	1	150	
	RF	1.12	150	
	RF	1.18	150	
	RF	1.25	150	

For Studbolt:

Number in Set	In Lug Set	Length	Stud Type Description	Stud Description	Bolt Commodity	Bolt Name	Nominal Diameter	Nominal Unit	Matching Pipe OD	End Type	Flange Std	Gasket Std	Facing	Flange Thickness	Pressure Class
4.00	1"	1.189062592126	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	0.5	in					RF	0.44	150
4.00	1"	1.149062592126	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	0.75	in					RF	0.5	150
4.00	1"	1.149062592126	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	1	in					RF	0.56	150
4.00	1"	1.149062592126	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	1.5	in					RF	0.68	150
4.00	1"	1.181000000000	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	2	in					RF	0.75	150
4.00	1"	1.181000000000	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	2.5	in					RF	0.87	150
4.00	1"	1.144094488189	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	3	in					RF	0.94	150
4.00	1"	1.144094488189	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	3.5	in					RF	1	150
4.00	1"	1.144094488189	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	4	in					RF	1.12	150
12.00	1"	1.111810000000	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	10	in					RF	1.18	150
12.00	1"	1.111810000000	Stud Bolt	1/4" ASTM A307, B7	ASTM A307	34	12	in					RF	1.25	150

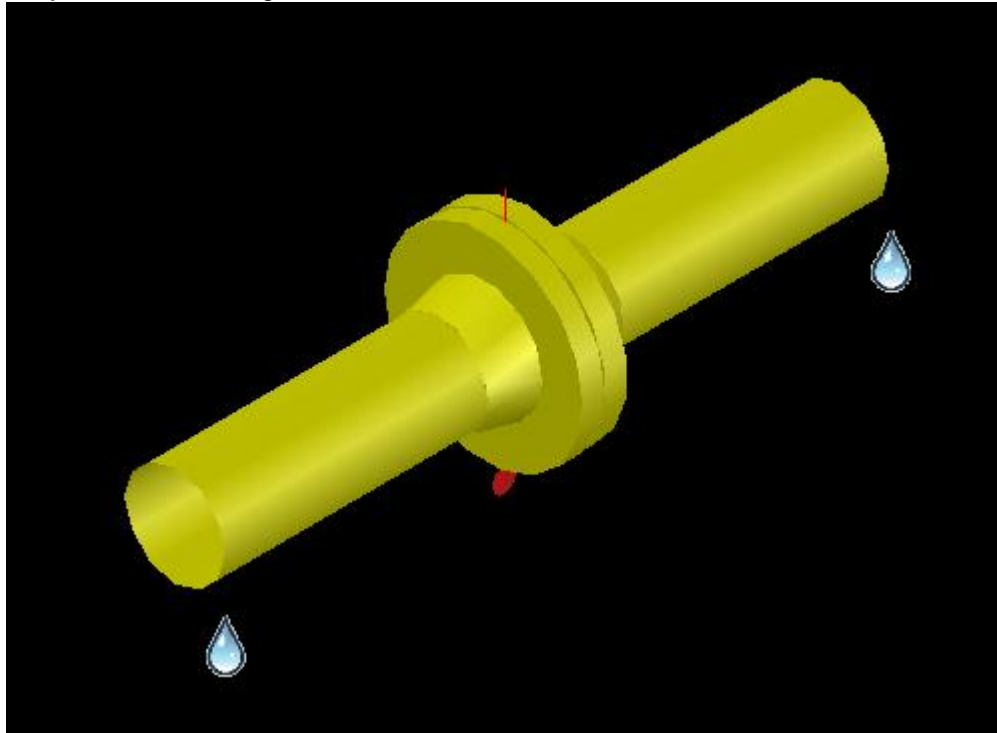
Stud Bolt Length is: 4.7244094488189 (?)

Number In Set	Is Lug Set	Length	Stud Type Description	St
4.00	<input type="checkbox"/>	3.1496062992126	Stud Bolt	Lg
4.00	<input type="checkbox"/>	3.1496062992126	Stud Bolt	Lg
4.00	<input type="checkbox"/>	3.1496062992126	Stud Bolt	Lg
4.00	<input type="checkbox"/>	3.1496062992126	Stud Bolt	Lg
4.00	<input type="checkbox"/>	3.93700787401575	Stud Bolt	Lg
4.00	<input type="checkbox"/>	3.93700787401575	Stud Bolt	Lg
4.00	<input type="checkbox"/>	4.7244094488189	Stud Bolt	Lg
8.00	<input type="checkbox"/>	4.7244094488189	Stud Bolt	Lg
8.00	<input type="checkbox"/>	4.7244094488189	Stud Bolt	Lg
8.00	<input type="checkbox"/>	4.7244094488189	Stud Bolt	Lg
12.00	<input type="checkbox"/>	5.51181102362205	Stud Bolt	Lg
12.00	<input type="checkbox"/>	5.51181102362205	Stud Bolt	Lg

And flange thickness in bolt set is: 0.94

Std	Facing	Flange Thickness	Pressure Class	S
	RF	0.44	150	
	RF	0.5	150	
	RF	0.56	150	
	RF	0.68	150	
	RF	0.75	150	
	RF	0.87	150	
	RF	0.94	150	
	RF	0.94	150	
	RF	1	150	
	RF	1.12	150	
	RF	1.18	150	
	RF	1.25	150	

Simple 4"-CL.150 flange Connection:



Properties Flange: flange thickness is: 23.876 mm

Plant 3D	
Class	Flange
Size	4"
Spec	022AWNRFK
Tag	
Line Number Tag	4
Tag	
General	
Short Description	FLANGE WN
Long Description (Size)	FLANGE WN, SCH. 10S, CL. 150, RF, AS...
Long Description (Family)	FLANGE WN, CL. 150, RF, ASME B16.5
Insulation Thickness	?
Insulation Type	?
Service	?
Compatible Standard	ASME B16.5
Content Iso Symbol Definition	TYPE=FLANGE,SKEY=FLWN
Design Pressure Factor	
Design Std	
Flange Thickness	23.876
Item Code	
Manufacturer	
Status	New
Weight	7.26
Weight Unit	
Insulation Spec	?
Shop/Field	SHOP
Spool Number	
Tie In Number	
Tracing Spec	?
Tracing Type	?
Unit	

Bolt set properties: Flange thickness is: 23.876 mm
Length is: 120.65 mm (Should be 120 mm)

General	
Short Description	Bolt set
Long Description (Size)	STUD BOLT WITH 2 HEX. NUTS 5/8" X 1...
Long Description (Family)	BOLT SET, RF, CL. 150, ZETON, STUD B...
⚡ Insulation Thickness	?
⚡ Insulation Type	?
⚡ Service	?
Compatible Standard	ASME B16.5/B18.2.2
Content Iso Symbol Definition	TYPE=BOLT
Design Pressure Factor	
Design Std	Zeton
Flange Thickness	23.876
Item Code	
Manufacturer	
Status	New
Weight	
Weight Unit	
⚡ Insulation Spec	?
Spool Number	
⚡ Tracing Spec	?
⚡ Tracing Type	?
Unit	
BoltCompatibleStd	ASTM A193
Bolt Size	5/8"
Number In Set	8.00
Shop/Field	FIELD
Process Line	
Insulation Thickness	
Insulation Type	
InsulationSpec	
Locked Line Status	Unlocked
Lock Change By	
Lock Change At	
TracingSpec	
TracingType	
Part Properties	
Part Data	
Material	
Material Code	ASTM A193 B7 / A 194 2H
Pressure Class	150
Part Geometry	
Length	120.65

Results on Isometric: @@@= 120.65 Size: 5/8" x 121
 Should be: @@@= 120 Size: 5/8" x 120

MATERIAL DATA					
POS	QTY	SIZE	DESCRIPTION	MATERIAL	UNIT
1	0.7M	4"	PIPE, SCH 10S, ASME B36.19M, WOOD, FFW	ASTM A312 TP316/316L	
2	2	4"	FLANGE WN, SCH 10S, CL 150, RF, ASME B16.5	ASTM A182 F316/316L	
3	3	5/8"x121	STUD BOLT WITH 2 TILX, NUTS 5/8" X 120.65 MM, FULL CONFLD	ASTM A193 B7 / A 194 2H	
4	1	4"	GASKET, SWG, CR/NR, CL 150, RF, ASME B16.20	AISI 316/GRAPH CS CR/SS IR	

STANDARD STUDBOLT LENGTH'S SHOULD BE 80 mm, 100 mm, 120 mm, 140 mm and so on.....(+20)