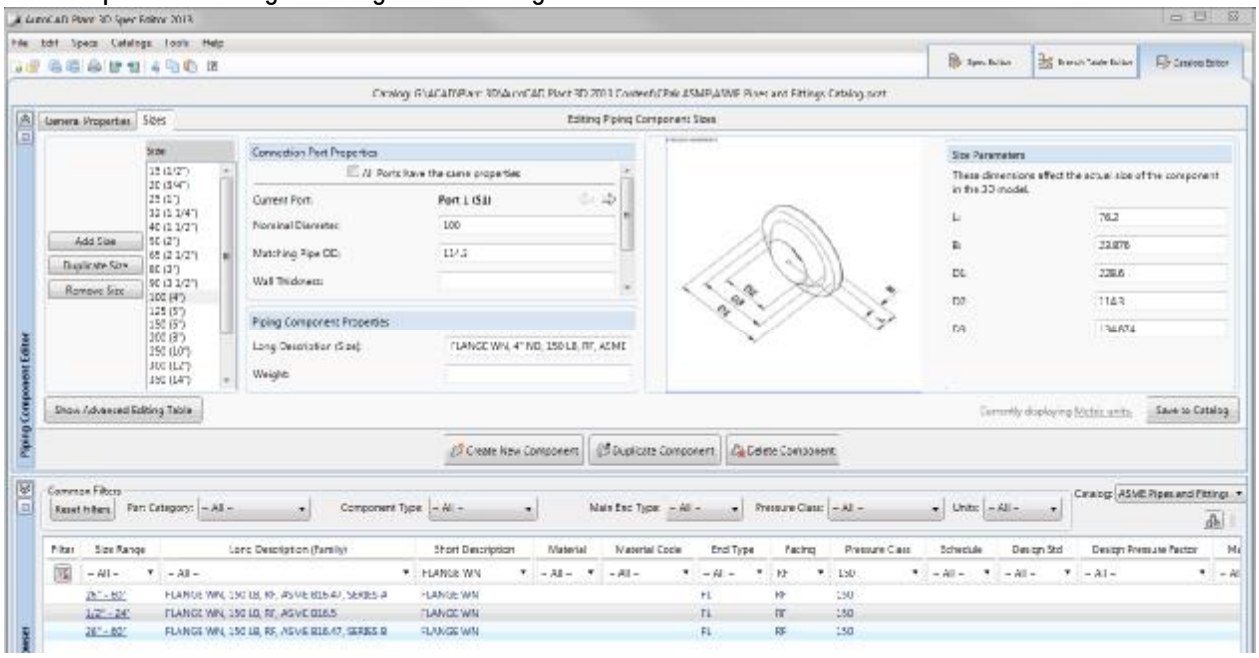
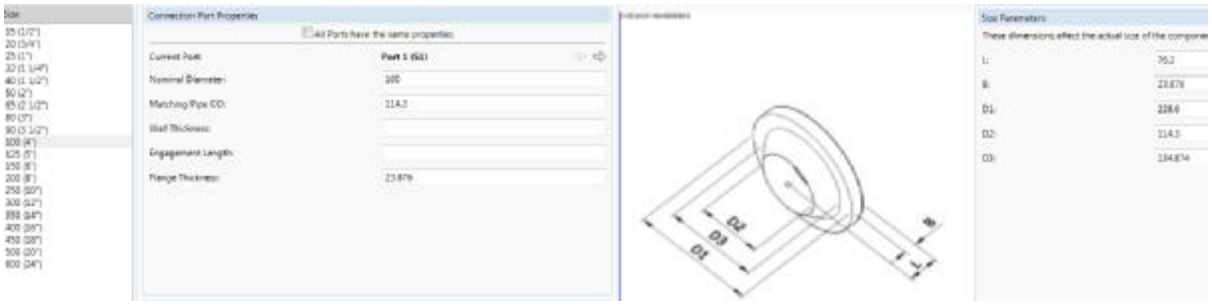
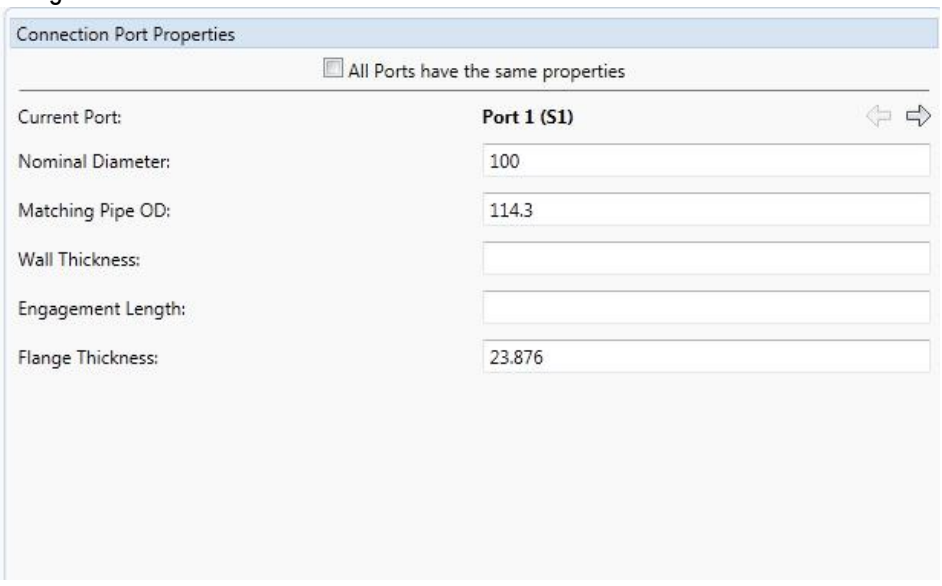
Studbolt Length: I already checked the posted comments about stud bolt length, but for a unknown reason it doesn't work for me.....

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

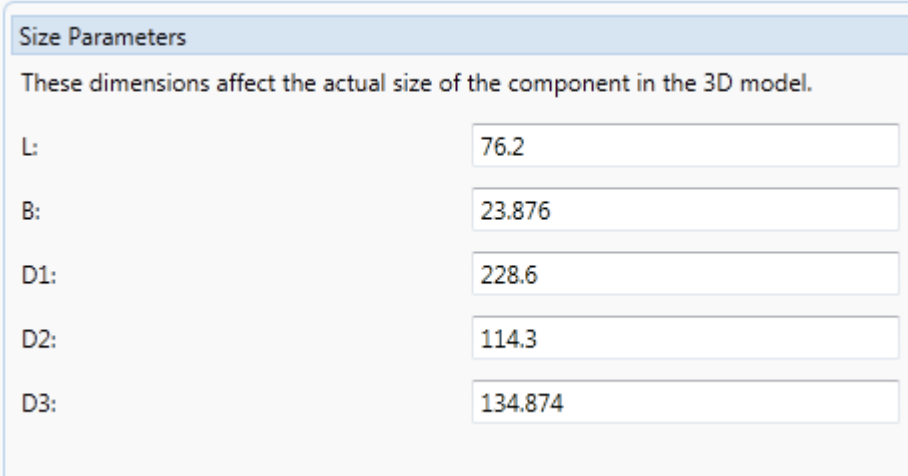




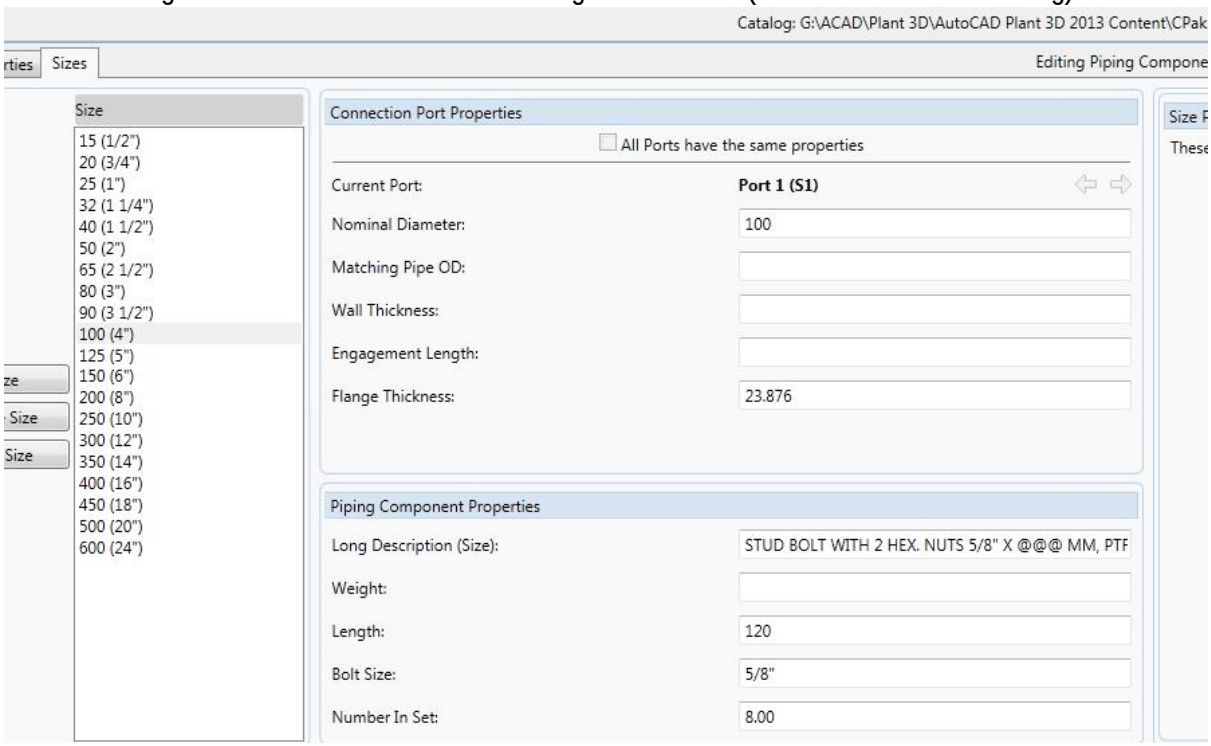
Flange thickness is: 23.876 mm



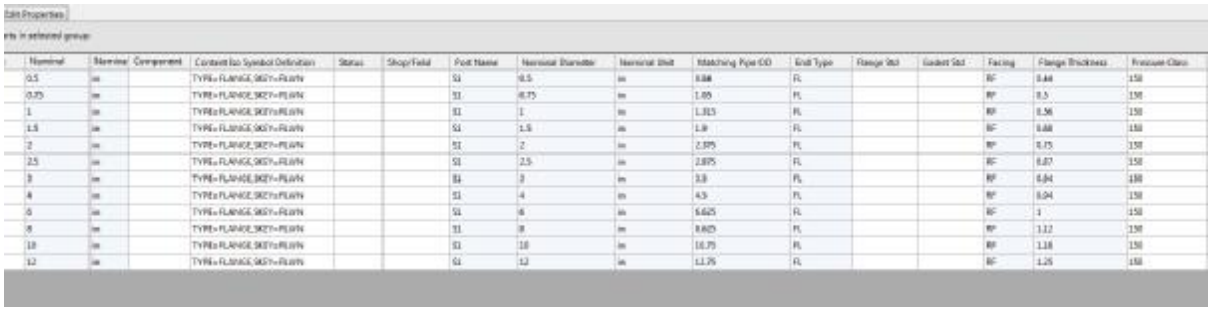
And B: 23.876



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

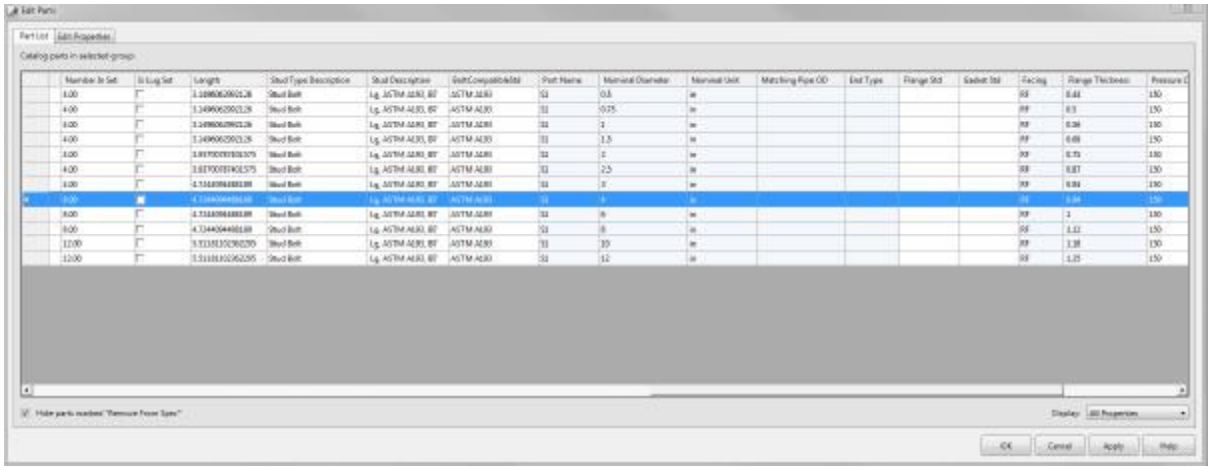


Now in pipe spec:
For the 4" – CL.150 Flange Flange thickness is: 0.94 (")



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:



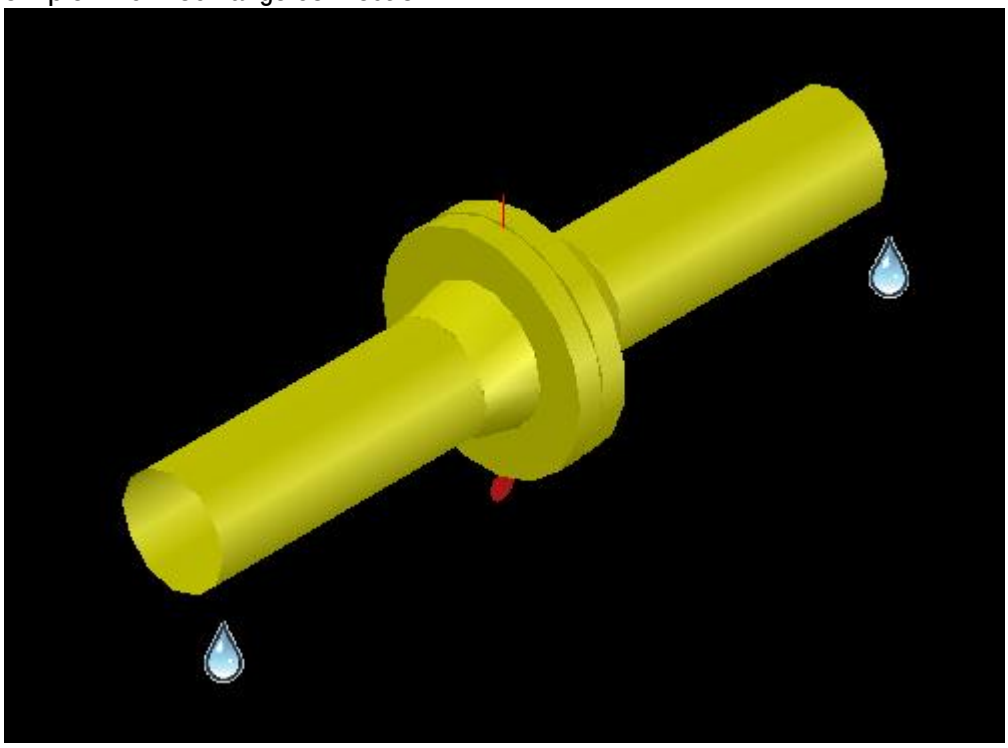
Stud Bolt Length is: 4.7244094488189 (?)

Number In Set	Is Lug Set	Length	Stud Type Description	St
4.00	☐	3.1496062992126	Stud Bolt	Lg
4.00	☐	3.1496062992126	Stud Bolt	Lg
4.00	☐	3.1496062992126	Stud Bolt	Lg
4.00	☐	3.1496062992126	Stud Bolt	Lg
4.00	☐	3.93700787401575	Stud Bolt	Lg
4.00	☐	3.93700787401575	Stud Bolt	Lg
4.00	☐	4.7244094488189	Stud Bolt	Lg
8.00	☐	4.7244094488189	Stud Bolt	Lg
8.00	☐	4.7244094488189	Stud Bolt	Lg
8.00	☐	4.7244094488189	Stud Bolt	Lg
12.00	☐	5.51181102362205	Stud Bolt	Lg
12.00	☐	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	

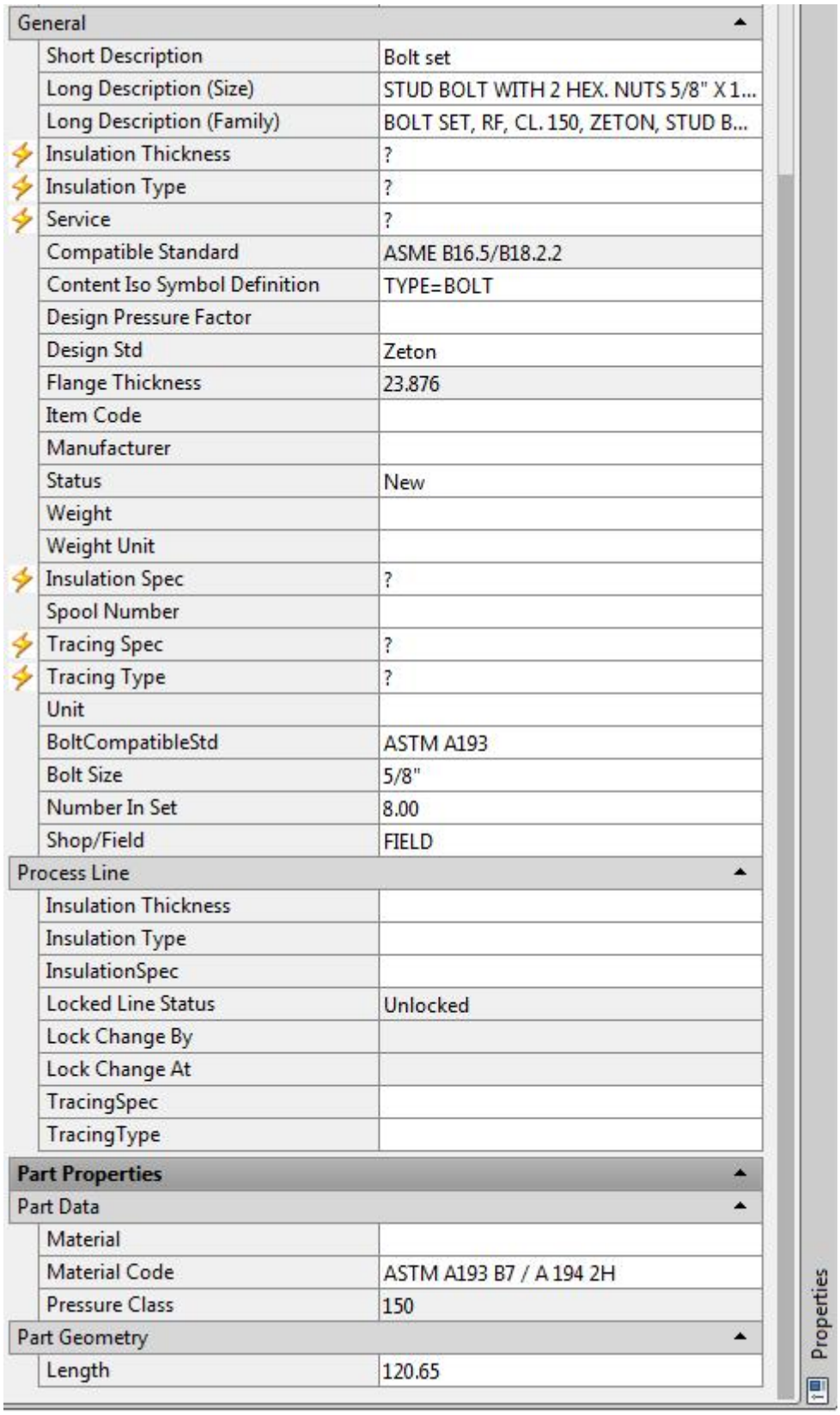
Simple 4”-CL.150 flange Connection:



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	

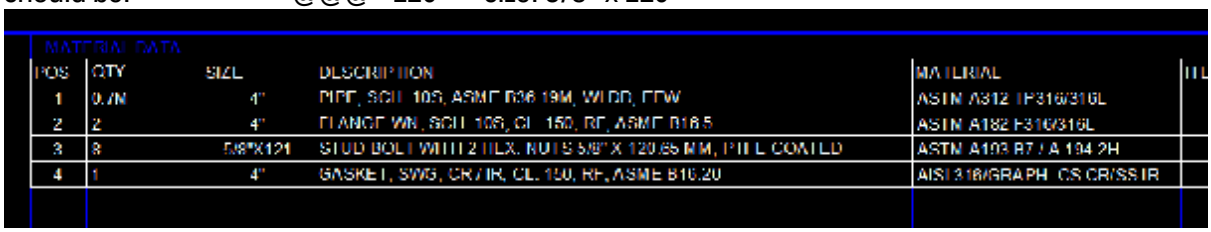
Bolt set properties: Flange thickness is: 23.876 mm
Length is: 120.65 mm (Should be 120 mm)



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

Properties

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
1	0.7N	4"	PIPE, SCH 10S, ASME B36.19M, WI BD, FBW	ASTM A312 TP316/316L
2	2	4"	FLANGE WN, SCH 10S, CL 150, RF, ASME B16.5	ASTM A182 F316/316L
3	8	5/8"X121	STUD BOLT WITH 2 HEX. NUTS 5/8" X 120.65 MM, PTFE COATED	ASTM A193 B7 / A 194 2H
4	1	4"	GASKET, SWG, CR/IR, 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)