



UniversalReporter

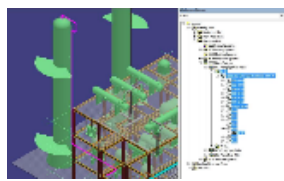
Use Case 1: Create Smart 3D piping MTO summary report

CHALLENGE

It is always a challenge to create a piping MTO report where all components are listed and summarised (per area, unit and/or pipeline system) with the appropriate associations to pipe run, area, unit etc.

WORKFLOW STEPS

1. Extract data from the source application by using your own filter



2. View data in **UniversalReporter**

Area	Unit	Pipeline	Commodity Type	First Size Schedule	Industry Commodity	Npd 1	Npd Un	SUM_ofj	Quantity	Short Material Descriptio	Spec Name
NOT-											
A2	U01	1002-P	E90LR	S-STD	MCMZZB0ZZAAE	6.00	in	3.00	pcs	90 deg LR elbow, S-STD,	1C0031
A2	U01	1002-P	PIPE	S-STD	FAAZZB0ZZABA	6.00	in	18194.80	mm	Pipe, S-STD, BE, ASTM-	1C0031
A2	U01	1002-P	Shop weld			6.00	in	9.00	pcs	Shop weld	1C0031
A2	U01	1002-P	T	S-STD	MDJZZB0ZZAAE	6.00	in	1.00	pcs	Tee, S-STD, BE, ASTM-	1C0031
A2	U02	2001-P	E90LR	S-STD	MCMZZB0ZZAAE	6.00	in	4.00	pcs	90 deg LR elbow, S-STD,	1C0031
A2	U02	2001-P	FWN	Undefined	FAAAHDCZZAAD	8.00	in	2.00	pcs	Flange, CL150, RFFE/BE	1C0031
A2	U02	2001-P	PIPE	S-STD	FAAZZB0ZZABA	6.00	in	16491.20	mm	Pipe, S-STD, BE, ASTM-	1C0031
A2	U02	2001-P	REDC	S-STD	MBCZZB0ZZAAE	8.00	in	2.00	pcs	Concentric reducer, S-ST	1C0031
A2	U02	2001-P	Shop weld			6.00	in	12.00	pcs	Shop weld	1C0031
A2	U02	2001-P	Spiral wound, one		GMAHACABXBEP	6.00	in	2.00	pcs	Gasket, CL150, 0.125" th	1C0031

3. Create piping MTO summary report using a report template which includes built-in summary functions

Piping Material Take-OFF										CAXperts
Area	Unit	Pipeline	Commodity	First Size	Industry Commodity Code	Quantity	[pcs/mm]	Short Material Description	Spec Name	
System	System	System	Type	Schedule						
A2	U01	1002-P	E90LR	S-STD	MCMZZB0ZZAAEADCCZUS	3.00	pcs	90 deg LR elbow, S-STD, BE, ASTM-A:1C0031		
			PIPE	S-STD	PAAZZB0ZZABAABOAAZZUS	18194.80	mm	Pipe, S-STD, BE, ASTM-A53-B Type S 1C0031		
			Shop weld			9.00	pcs	Shop weld 1C0031		
			T	S-STD	MDJZZB0ZZAAEADCCZUS	1.00	pcs	Tee, S-STD, BE, ASTM-A234-WPB, AS 1C0031		
A2	U02	2001-P	E90LR	S-STD	MCMZZB0ZZAAEADCCZUS	4.00	pcs	90 deg LR elbow, S-STD, BE, ASTM-A:1C0031		
			FWN	Undefined	FAAAHDCZZAADABQZZUS	2.00	pcs	Flange, CL150, RFFE/BE, ASTM-A105, 1C0031		
			PIPE	S-STD	PAAZZB0ZZABAABOAAZZUS	16491.20	mm	Pipe, S-STD, BE, ASTM-A53-B Type S 1C0031		

SOLUTION

- **3D ReportAdapter** adds the hierarchy information to the pipe parts, so **UniversalReporter** is able to use the relation to pipeline, area, unit etc. for grouping the output
- This type of report gives you a quick - up to date - overview of the material used in your plant

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