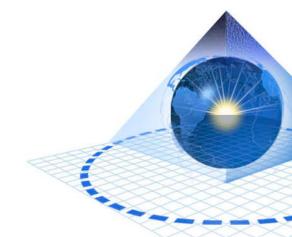
# Populating the DDP Default Library



### **Topics**

- Engineering Data re-use
- Purpose of Default
- Default vs. Vendor
- Building Excel libraries
- Importing to Default Library
- Using the Default Library

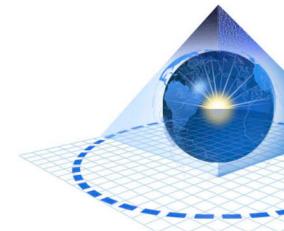




### **Engineering Data Re-use**

- Previous project information sufficient as "Preliminary".
- Library built from past projects. Kept in Excel.
- Less data entry by designers.
- Quicker transfer to piping for preliminary iso's.





#### **Default Dimensional Data**

"This feature enables you to store and manage preliminary dimensional data for your instrumentation design. You can use standard (default) dimensions of known manufacturers who are likely to supply the instruments. This Default data is stored in the Default Library which allows you browse through the data, modify it, and copy it to the Working data as needed. Once sufficient Default data is available, the DDP designer can provide this data to the piping designers for their preliminary design. The Default data will then be replaced or modified according to the actual dimensional data received from the manufacturers.

Note that you must first define the appropriate dimensional group, the process connection data, and the manufacturer before you can start entering default data. Remember that only one set of default dimensional data can exist for a domain."



#### **Default vs. Vendor Libraries**

- Default Library Store and manage preliminary dimensional data for your instrumentation design. You can use standard (default) dimensions of known manufacturers who are likely to supply the instruments.
- Vendor Library Store and manage certified vendor dimensional data. Vendor data is used for data validation and verification purposes of dimensional data for piping design. You use Vendor data to certify the Working data prior to its release to piping.

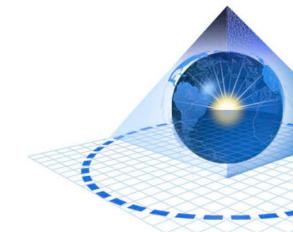


# **Building MS Excel Libraries**

Previous project information saved as MS Excel.

e Modules	Edit Actions Sma	rtPlant To	ols Window	Help																											
Close Gen		dex Sp.	<b>Æ</b> aco ∀iring	Proc. Da	f <sub>e</sub> ¥Y sta Calculat		& Hook-Ups	DDP	<b>%</b> Help																						
Browse	r View - New Worl	cing Data	[ Filtered	]																											
Tag Numbe	er Manufacture	r Model	Dimensional Group		Inlet Class	Inlet End Preparation			Outlet Class	Outlet End Preparation	Dry Weight	Unit of Outle	t V1	V2	V3	∨4	A1	A2	H1	H2	НЗ	H4	P1	P2	P3	P4	P5	P6	11	12	13
56XV 3703	300A CCI	100D	SDG1	20	150	RF		20	150	RF		in	930	1860.6	548	648	2654	450	270	1	1	1	0	750	375	668	3302	765	200	900	9
E01/14 070/	300B CCI	100D	SDG1	20	150	RF	in	20	150	RF	4536	in	930.3	1860.6	548	648	2654	450	270	1	1	1	180	750	375	668	3302	765	200	900	9
156XV 37U3					000	RF	in	12	300	RF	1451	in	559	1120.6	338	453	1730	450	270	1	1	1	180	750	375	1790	3302	675	200	900	9
	350A CCI	100D	SDG1	12	300	PAF .	11.1									450	4720	450	270	4	1	1	0	750	375	1790	3302	675	200	000	-
56XV 3703		100D 100D	SDG1 SDG1		300	RF	in	12	300	RF	1451	in	559	1120.6	338	453	1730	430	210	1				730			3302	010	200	900	9
56XV 3703 56XV 3703	350B CCI		SDG1	12				12 6	300 600	RF RF		in in	559 254	1120.6 508	338 135	453 589	833	483	270	1	1	1	0	298.4	149.2	184.4	773.4	411	321	603.75	
56XV 3703 56XV 3703 56PV 3703	350B CCI 300 FISHER	100D	SDG1	12 6	300	RF		12 6 8	300 600 600		327					589 365		483 350	270 270	1	1	1	0	298.4 650	149.2 325	184.4 1567		411 625			8
56XV 3703 56XV 3703 56XV 3703 56PV 3704 56XV 3704	350B CCI 300 FISHER 400B CCI	100D EWS-C	SDG1 SDG1	12 6 8	300 600	RF RF		12 6 8	600	RF	327 1134	in	254	508	135	589 365 365	833	483 350 350	270 270 270 270	1 1 1	1 1	1 1 1	0 0 180			184.4 1567 1567	773.4	411	321	603.75	8





#### **Building MS Excel Libraries**

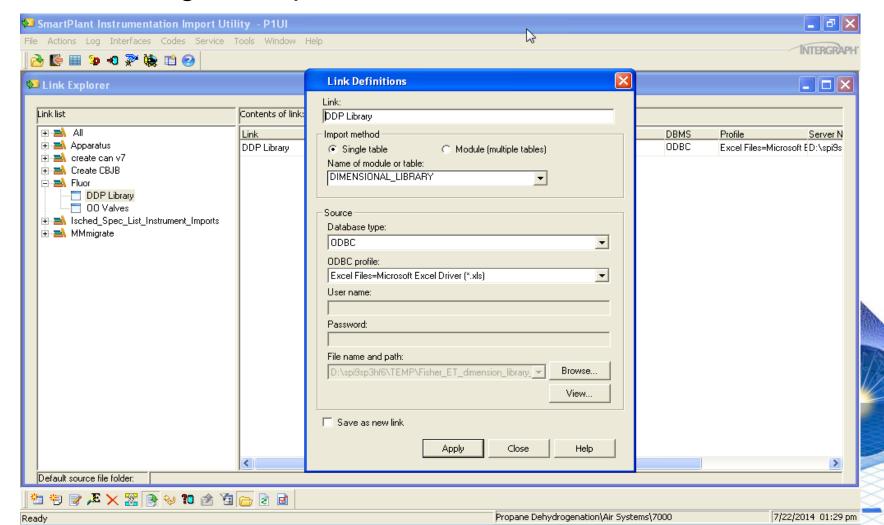
- Dump added to library MS Excel file.
- Separate tabs for Imperial and Metric.
- Separate files for each Group.

	Α	ВС	D	E	F	G	Н			K		M	N	0	Р	Q	R	S	Т	U	V	W	Y	Y Z	ΔΔ	AB	AC	AD	AE AF	F AG
1	A	ЬС		_		0	- 11	- '	J	IX	L	IVI	IV D			D3	D4	D5		07 D	8 1			011 D12		D14	D15	D16 [	17 D18	
2 TagN	lumber I	Item Rev	Manufacture	e Model	Type	InlSize	InIClass	InlPrep	OutlSize	OutlClass	OutlPrep	Weight I	JOM V			V3	V4	A1	A2 H	H1 H	2 F			P1 P2	P3	P4	P5	P6 I	12	13
3 E-1-1			Fisher	ET 667 DVC w/ HW	SDG1	1	150		1	150		117 i		3.63		2.38	5.03	22.56	13.12	0 1	1.14	12	8.44		9 7.4		11.48	8.1	5	14 19.24
4 E-1-3		Α	Fisher	ET 667 DVC w/ HW	SDG1	1	300		1	300		117 i		3.88		2.38			13.12	0 1	1.14	12	8.44	0 9.1	9 7.4	4 8.3	11.48	8.1		14 19.24
5 E-1-6		Α	Fisher	ET 667 DVC w/ HW	SDG1	1	600		1	600		122 i		4.13		2.38			13.12	0 1	1.14	12	8.44	0 9.1	9 7.4	4 8.3	11.48	8.1	5	14 19.24
6 E-1.5	5-150	Α	Fisher	ET 667 DVC w/ HW	SDG1	1.5	150	RF	1.5	150	RF	131 ii	n	4.38	8.75	2.81	4.91	22.56	13.12	0 1	1.14	12	8.44	0 9.1	9 7.4	4 8.3	11.48	8.1	5	14 19.24
7 E-1.5	5-300	Α	Fisher	ET 667 DVC w/ HW	SDG1	1.5	300	RF	1.5	300	RF	138 ii	n	4.63	9.25	2.81	4.91	22.56	13.12	0 1	1.14	12	8.44	0 9.1	9 7.4	4 8.3	11.48	8.1	5	14 19.24
8 E-1.5	5-600	Α	Fisher	ET 667 DVC w/ HW	SDG1	1.5	600	RF	1.5	600	RF	146 ii	n	4.94	9.88				13.12	0 1	1.14	12	8.44	0 9.1	9 7.4	4 8.3	11.48	8.1	5	14 19.24
9 E-2-1	150	Α	Fisher	ET 667 DVC w/ HW	SDG1	2	150	RF	2	150	RF	247 ii	n	5.00	10	3.06	6.5	30.25	18.62	0 1	4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
10 E-2-3	300	Α	Fisher	ET 667 DVC w/ HW	SDG1	2	300	RF	2	300	RF	344 ii	n	5.25	10.5	3.06	6.5	30.25	18.62	0 1	4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
11 E-2-6	600	Α	Fisher	ET 667 DVC w/ HW	SDG1	2	600	RF	2	600	RF	262 ii	n	5.63	11.25	3.06	6.5	30.25	18.62	0 1	4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
12 E-3-1	150	Α	Fisher	ET 667 DVC w/ HW	SDG1	3	150	RF	3	150	RF	318 ii	n	5.88	11.75	3.81	7.53	30.25	18.62	0 1	4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
13 E-3-3		Α	Fisher	ET 667 DVC w/ HW	SDG1	3			3	300		344 ii	n	6.25	12.5	3.81	7.53	30.25	18.62	0 1	4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
14 E-3-6	600	Α	Fisher	ET 667 DVC w/ HW	SDG1	3	600	RF	3	600	RF	344 ii	n	6.63	13.25	3.81	7.53	30.25	18.62	0 1	4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
15 E-4-1		Α	Fisher	ET 667 DVC w/ HW	SDG1	4	150		4	150		345 ii	n	6.94	13.88	5.06	8.72	30.25	18.62		4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
16 E-4-3		Α	Fisher	ET 667 DVC w/ HW	SDG1	4	300		4	300		370 ii	n	7.25	14.5	5.06	8.72	30.25	18.62		4.72	14	14.24	0 9.1	9 7.4	4 8.3	14.79	8.6	5.88 18.6	62 24.03
17 E-4-6		Α	Fisher	ET 667 DVC w/ HW	SDG1	4	600		4	600		408 ii		7.75	15.5	5.06	8.72	30.25	18.62	0 1	4.72	14	14.24				14.79	8.6	5.88 18.6	62 24.03
18 E-6-1		Α	Fisher	ET 667 DVC w/ HW	SDG1	6			6	150		602 ii			17.75		9.91		21.12			17.25	17.56	0 6.5				10.1	9.12 21.	92 22.31
19 E-6-3		Α	Fisher	ET 667 DVC w/ HW	SDG1	6			6	300		672 ii			18.62		9.91		21.12			17.25		0 6.5						92 22.31
20 E-6-6		Α	Fisher	ET 667 DVC w/ HW	SDG1	6	600		6	600		872 ii		10.00		5.31			21.12			17.25				4 8.3				92 22.31
21 E-8-1		Α	Fisher	ET 667 DVC w/ HW	SDG1	8	150		8	150		916 ii			21.38				21.12				17.56	0 6.5						92 22.31
22 E-8-3		Α	Fisher	ET 667 DVC w/ HW	SDG1	√g 8			8	300		916 ii			22.38							17.25		0 6.5						92 22.31
23 E-8-6		Α	Fisher	ET 667 DVC w/ HW	SDG1	8			8			1086 ii		12.00			14.75			0 1	1.75	17.25	17.56	0 6.5				10.1		92 22.31
24 E-1-1		Α	Fisher	ET 667 DVC w/o HW		1	150		1	150		117 ii		3.63		2.38			13.12	0	0	0	0	0 9.1						14 19.24
25 E-1-3		Α	Fisher	ET 667 DVC w/o HW		1	300		1	300		117 ii		3.88		2.38			13.12	0	0	0	0				11.48		_	14 19.24
26 E-1-6		Α	Fisher	ET 667 DVC w/o HW		1	600		1	600		122 ii		4.13	8.25				13.12	0	0	0	0				11.48	8.1		14 19.24
27 E-1.5		Α	Fisher	ET 667 DVC w/o HW		1.5			1.5			131 ii		4.38	8.75		4.91		13.12	0	0	0	0	0 9.1						14 19.24
28 E-1.5		Α	Fisher	ET 667 DVC w/o HW		1.5			1.5			138 ii		4.63	9.25			22.56		0	0	0	0				11.48		_	14 19.24
29 E-1.5	5-600	Α	Fisher	ET 667 DVC w/o HW	SDG1	1.5	600	RF	1.5			146 ii	n	4.94	9.88	2.81	4.91	22.56	13.12	0	0	0	0	0 9.1	9 7.4	4 8.3	11.48	8.1	5	14 19.24
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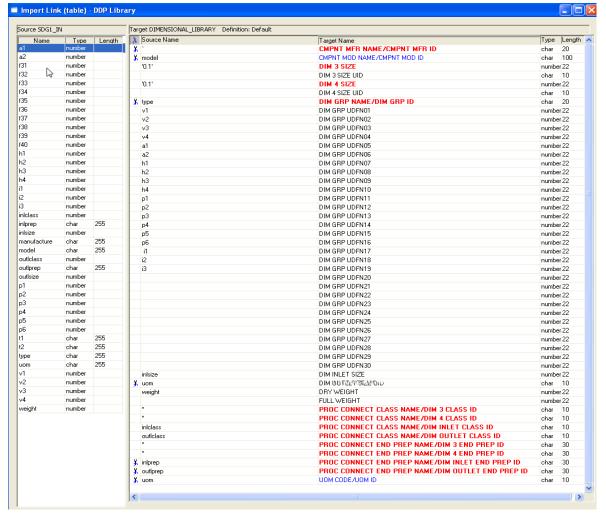
#### **Importing to Default Library**

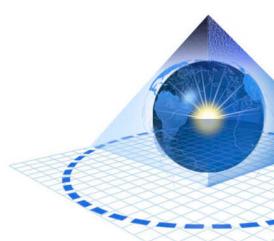
Creating the import link.



### **Importing to Default Library**

Mapping the import fields





#### **Populated Default Library**

- Some "tweaking" may be necessary
- Clearing of Default library recommended at EOP

Manufacturer	Model	Group	Inlet Size	Unit of Inlet Size	Inlet Class	Inlet End Prep	Inlet End Prep Design Code	Outlet Size	Unit of Outlet Size	Outlet Class	Outlet End Prep	Outlet End Prep Design Code	Dry Weight	Full Weight	Unit of Measure
Fisher 🔻		SDG1	1	in	300	RF	ASME-B16.5	1	in	300	RF	ASME-B16.5	117		lb
Fisher		SDG1	1.5	in	300	RF	ASME-B16.5	1.5	in	300	RF	ASME-B16.5	138		lb
Fisher		SDG1	2	in	300	RF	ASME-B16.5	2	in	300	RF	ASME-B16.5	344		lb
Fisher		SDG1	3	in	300	RF	ASME-B16.5	3	in	300	RF	ASME-B16.5	344		lb
Fisher		SDG1	4	in	300	RF	ASME-B16.5	4	in	300	RF	ASME-B16.5	370		lb
Fisher		SDG1	6	in	300	RF	ASME-B16.5	6	in	300	RF	ASME-B16.5	672		lb
Fisher		SDG1	8	in	300	RF	ASME-B16.5	8	in	300	RF	ASME-B16.5	916		lb
Fisher		SDG1	1	in	600	RF	ASME-B16.5	1	in	600	RF	ASME-B16.5	122		lb
Fisher		SDG1	1.5	in	600	RF	ASME-B16.5	1.5	in	600	RF	ASME-B16.5	146		lb
Fisher		SDG1	2	in	600	RF	ASME-B16.5	2	in	600	RF	ASME-B16.5	262		lb
Fisher		SDG1	3	in	600	RF	ASME-B16.5	3	in	600	RF	ASME-B16.5	344		lb
Fisher		SDG1	4	in	600	RF	ASME-B16.5	4	in	600	RF	ASME-B16.5	408		lb
Fisher		SDG1	6	in	600	RF	ASME-B16.5	6	in	600	RF	ASME-B16.5	872		lb
Fisher		SDG1	8	in	600	RF	ASME-B16.5	8	in	600	RF	ASME-B16.5	1086		lb
Fisher	8580D/2052	SDG1	1	in	150	RF	ASME-B16.5	1	in	150	RF	ASME-B16.5	117		lb
Fisher	8580D/2052	SDG1	1.5	in	150	RF	ASME-B16.5	1.5	in	150	RF	ASME-B16.5	131		lb
Fisher	8580D/2052	SDG1	2	in	150	RF	ASME-B16.5	2	in	150	RF	ASME-B16.5	247		lb
Fisher	8580D/2052	SDG1	3	in	150	RF	ASME-B16.5	3	in	150	RF	ASME-B16.5	318		lb
Fisher	8580D/2052	SDG1	4	in	150	RF	ASME-B16.5	4	in	150	RF	ASME-B16.5	345		lb
Fisher	8580D/2052	SDG1	6	in	150	RF	ASME-B16.5	6	in	150	RF	ASME-B16.5	602		lb
Fisher	8580D/2052	SDG1	8	in	150	RF	ASME-B16.5	8	in	150	RF	ASME-B16.5	916		lb



# Questions



