

# 577 XF Xtra Filtration Magnetic Dirt Separator

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## **577XF Series**

NA11639

# **Revit Content Instructions Guide**

Manufacturer & Product:	Caleffi 577XF Filtration Magnetic Dirt Separator					
Files:	Magnetic_Dirt_Separator-XF_Xtra-Caleffi-577XF.rfa					
Type Catalog:	Magnetic_Dirt_Separator-XF_Xtra-Caleffi-577XF.txt					
Rendering file:	Not Applicable					
Schedule file:	Not Applicable					

This family contains the following main variations or types:

- Sizes include 1in., 1.25in., 1.5in. and 2in.
- Connection Types include G thread, MNPT, FNPT, Press, Sweat
- 290030/290031 valves are available on inlet and outlet for 1in. types
- NA108 valve is available on inlet and outlet for sizes above 1in. only with FNPT tailpieces

#### **Instance Properties**

Here is a curated list of notable parameters for the Revit user within the Caleffi 577XF Filtration Magnetic Dirt Separator family.

Construction	
Isolation Valve Availability	This shows text information about which valve is available for selection on inlet/outlet
Inlet Isolation Valve (default)	This controls the isolation valve type on the inlet.
(0) No Isolation Valve on Inlet (default)	This is active if no isolation valve is selected on inlet
(1) 290030 Isolation Valve on Inlet (default)	This is active if 290030 isolation valve is selected on inlet
(2) 290031 Isolation Valve on Inlet (default)	This is active if 290031 isolation valve is selected on inlet
(3) NA108 Isolation Valve on Inlet (default)	This is active if NA108 isolation valve is selected on inlet
Outlet Isolation Valve (default)	This controls the isolation valve type on the outlet.
(0) No Isolation Valve on Outlet (default)	This is active if no isolation valve is selected on outlet
(1) 290030 Isolation Valve on Outlet (default)	This is active if 290030 isolation valve is selected on outlet
(2) 290031 Isolation Valve on Outlet (default)	This is active if 290031 isolation valve is selected on outlet
(3) NA108 Isolation Valve on Outlet (default)	This is active if NA108 isolation valve is selected on outlet
Air Separator Installation Angle (default)	This controls the angle of air separator makes with the inlet-outlet connection axis
Mechanical - Flow	
Design Flow Rate (default)	This tells you the flow that this component is reading in the system.
Flow Warning (default)	This tells you a warning if the flow rate exceeds the maximum allowable.
Mechanical - Loads	
Pressure Drop Feet of Water (default)	Specify the pressure drop in feet of water.
System Pressure Drop (default)	This tells you the system pressure drop.

#### **Type Properties**

Here is a curated list of notable parameters for the Revit user within the Caleffi 577XF Filtration Magnetic Dirt Separator family.

Materials	
Valve Body Material	Metal - Caleffi - Brass

Identity Data	
Assembly Code	D3040
Contact URL*	http://www.caleffi.com/usa/en-us/contacts/contact-us
Copyright*	©Caleffi North America
Cost	
Description	Xtra Filtration Magnetic Dirt Separator
Family Version*	1



Caleffi North America

Keynote	
Manufacturer	Caleffi North America, Inc.
Model	577600A
Product Page URL*	https://www.caleffi.com/en-us/x-tra-f-iltration-magnetic-dirt-separator-npt-577- caleffi-577660a
Type Comments	
Type Image	
Series*	577XF Series
Standards*	ASSE 1017, CSA B125.3, UPC, IPC, IRC, NPC, NSF/ANSI/CAN 372
URL	https://www.caleffi.com/usa/en-us

Halftone text in the property tables indicates that the value is locked from editing.

\*Indicates Shared Parameter and can be scheduled

#### Rendering

Note: Standard Caleffi materials are imported. These may be modified, but please ensure that the modification selection matches an actual manufacturer supplied option.

#### Loading and Placing into the Project

To work with the Caleffi 577XF Filtration Magnetic Dirt Separator in Revit, a family is provided. Navigate to the Insert Tab > Load Family button on the Revit ribbon to load the family. If applicable, be sure the type catalog (.txt) file is located in the same folder as the family you are loading.

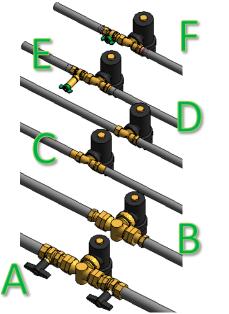
Please ensure that the visibility settings within the project are modified to have the Piping category visible.



Figure 1 - Insert Tab > Load Family

Visibility/Gra	phic Overrides for 3	D View: S	3D Mech
Model Categ	ories Annotation Cat	tegories	Analytical I
Show m	odel categories in this	view	
<u>Filter list:</u>	<multiple> ~</multiple>		
	Architecture		-
	Structure		Pro
	Mechanical	L L	ines
🗹 🗚	Electrical		
A	✓ Piping		

Figure 2 - Visibility/Graphic Overrides



#### Example variations of 577XF

- A. 1.5" FNPT connection, NA108 valve on inlet and outlet (577980A)
- B. 1.25" FNPT connection (577870A)
- C. 1" G thread connection (577660A)
- D. 1" MNPT connection (577600A)
- E. 1" Press connection, 290030 valve on inlet (577669A)
- F. 1" Sweat Connection. 290031 valve on inlet (577666A)

Figure 3 - Caleffi 577XF Filtration Magnetic Dirt Separator



## **Project Behavior**

One way to place a Caleffi 577XF Filtration Magnetic Dirt Separator is to go to the Systems Tab on the Revit ribbon and navigate to the Component button with Place a Component fly-out selected

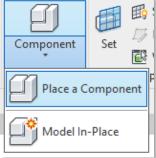


Figure 4 - Systems Tab > Component > Place a Component

			2
Properties			×
1	Magnetic_Dirt_Separator-XF_ 1in. G Thread_577600A	(tra-Caleffi-577)(F	-
Pipe Acce	essories (1)	~ 8	Edit Type
Constraint			* ^
Constructi			\$
Isolation	Valve Availability	290030 or 290031 Valves available on Inlet a	and O
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	8 Valve on Outlet	00.001	
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Mechanica			ŝ
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	m Flow Rate	0.000 GPM	
	n Flow Rate	4.400 GPM	
Critical Pa		128	
Pressure		21	
Mechanica			
	Drop Feet of Water	0.000000	3
	Pressure Drop	0.000 psi	11
Identity Da			2
Image			
Commen	nts		~
Properties	5		×
1	Magnetic_Dirt_Separator-XF_	Ktra-Caleffi-577XF	
	1in. G Thread_577600A		
•			
Pipe Acce	essories (1)	~ 8	Edit Type
Constraint			* ^
Constructi	tion		*
Isolation	Valve Availability	290030 or 290031 Valves available on Inlet a	and O
	ation Valve Selector	0	
	olation Valve on Inlet		
	0 Isolation Valve on Inlet		
(2) 29003	81 Isolation Valve on Inlet		
	8 Valve on Inlet		
	olation Valve Selector	0	
	olation Valve on Outlet		
(1) 29003	0 Isolation Valve on Outlet		
(2) 29003	31 Isolation Valve on Outlet		
(3) NA10	8 Valve on Outlet		
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Graphics			¥
Dimension	ns		*
Size		1"ø-1"ø-1"ø	
Mechanica			\$
Mechanica	al - Flow		*
Design Fl	low Rate	2.000 GPM	
Maximur	m Flow Rate	0.000 GPM	
Minimun	m Flow Rate	4.400 GPM	
Critical P	Path		
Pressure	Drop		
Mechanic	Mechanical - Loads		*
	Drop Feet of Water	0.000000	11
System P	Pressure Drop	0.000 psi	
	Identity Data		*
	Image		
Image			

Figure 5 – The Caleffi 577XF Filtration Magnetic Dirt Separator family can be found under pipe accessories in the project browser and placed directly onto pipe of the same size. It will then read flows and consider pressure drop in the system. In this case, horizontal and vertical configurations with and without isolation valves are shown.

### **Schedule Creation**

Within the type and instance properties dialogues, the Revit user will find useful information for scheduling purposes such as Type, Part Description, Part Number/Model, Family Version, Manufacturer, Series, & Product Page URL. The resulting Mechanical Equipment schedule in your project will show counts/quantities of the Caleffi 577XF Filtration Magnetic Dirt Separator as well as separate quantities/counts of any separately purchased accessory products that do not come in box with the Caleffi 577XF Filtration Magnetic Dirt Separator.



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