



flamco

Sideflow Clean

all-in-one side stream filter
for sealed heating and
cooling systems



that's excellence.

A clean system for maximum efficiency

Dirt in a heating or cooling installation will reduce its performance and cause wear and tear. The Sideflow Clean is a partial flow filter for continuous cleaning of sealed heating and cooling installations.

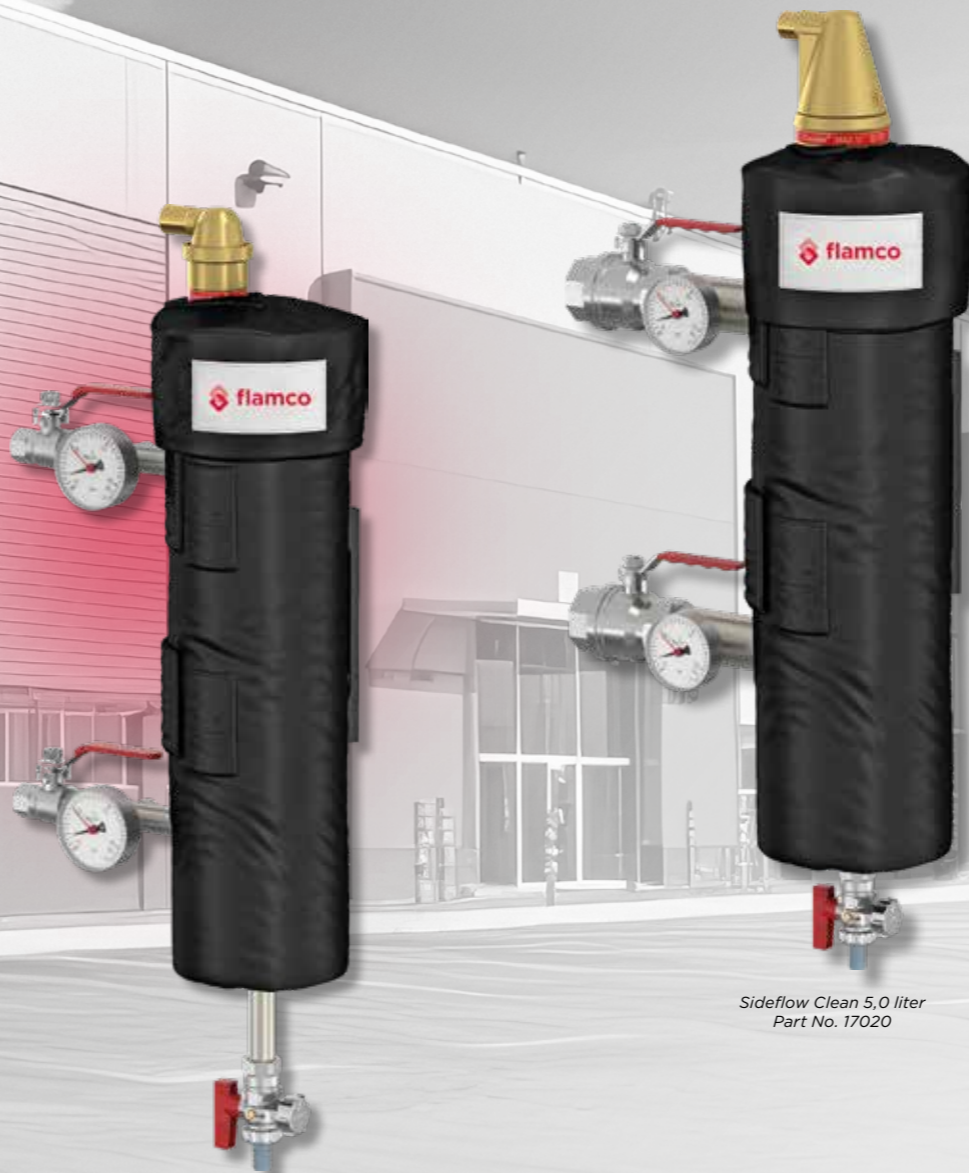
The benefits to using Sideflow Clean technology is that magnetic, and nonmagnetic suspended solids are captured, ensuring optimum system efficiency.

Installing a Sideflow Clean to a system ensures that a proportion (10% PICV) of the main flow is filtered, which means dirt and magnetite are captured through a combination of a filter bag and magnetic filtration. Sideflow Clean ensures that your heating or cooling system operates at its most efficient level!

Flamco offers 2 versions:

- wall mounted 3,5 liter and 5,0 liter, not-pumped
- floor standing, pumped

Building type	Sideflow Clean 3,5 L	Sideflow Clean 5,0 L	Sideflow Clean Pro
large residential	✓	✗	✗
commercial	✗	✓	✓
industrial	✗	✗	✓



Sideflow Clean 3,5 liter
Part No. 17021

Sideflow Clean 5,0 liter
Part No. 17020



Sideflow Clean Pro (pumped)
Part No. 17015



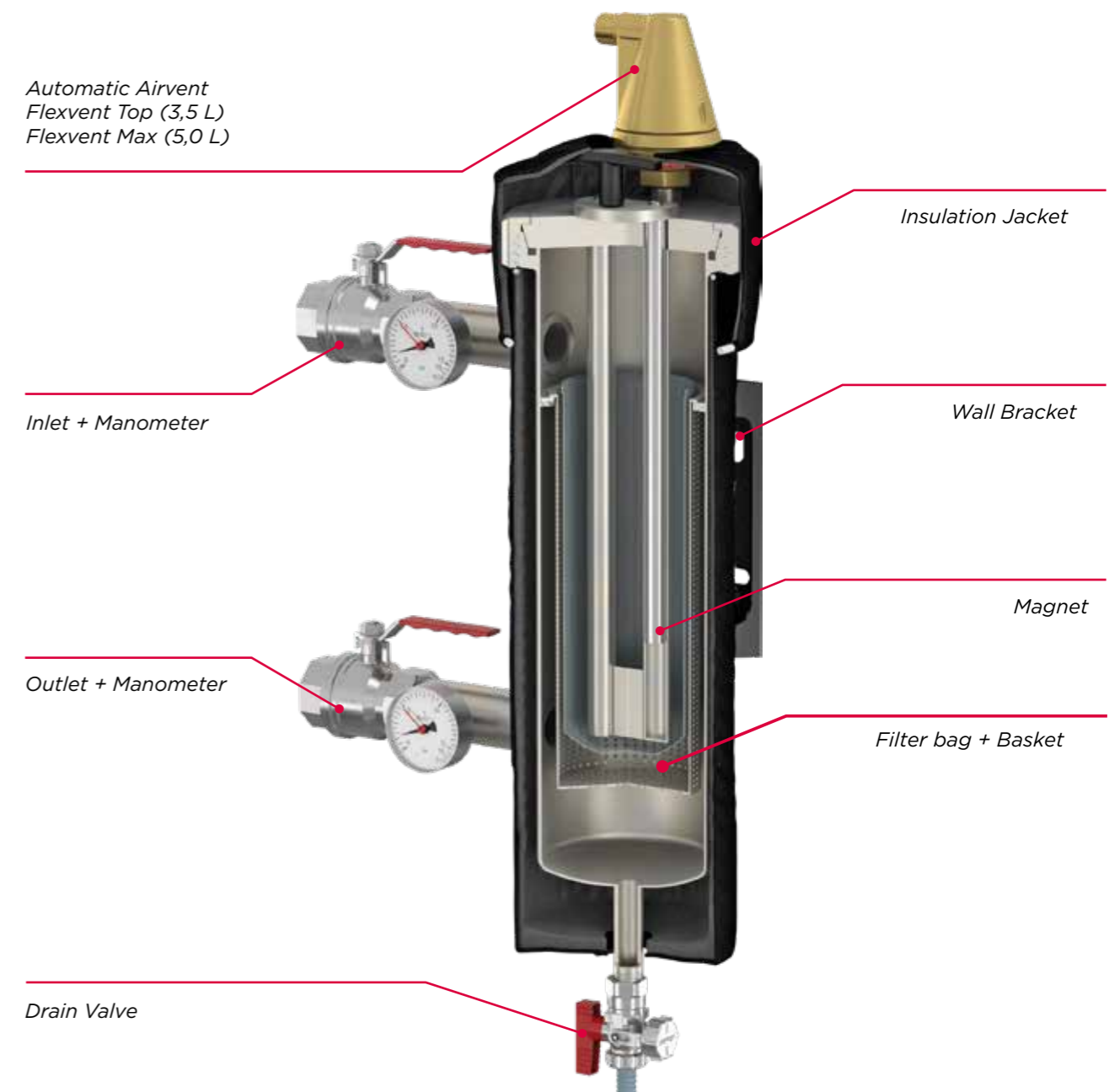
Sideflow Clean

wall mounted, not-pumped

The wall mounted Sideflow Clean consists of a compact stainless-steel vessel. The Sideflow Clean is suitable for installations in many sectors, including industrial and utilities. Installing a Sideflow Clean to a system ensures that a proportion (10% PICV) of the main flow is filtered, which means dirt and magnetite are captured through a combination of a filter bag and magnetic filtration. Sideflow Clean ensures that your heating or cooling system operates at its most efficient level.

main benefits

- 1. highly effective filtration** the magnet holder has one or two fixed magnets inside which produce an optimal magnetic field that is focused inside the vessel and limits unwanted magnetic effects outside it. The magnetic effect is so great that even the smallest magnetic particles are trapped. The vessel has a filter basket for fitting a removable filter bag that can trap solid particles down to 10 microns in size.
- 2. energy saving** the Sideflow Clean comes fitted with a high-quality insulating jacket as standard that ensures heat losses are minimised, which guarantees optimal energy-efficient operation.
- 3. easy retrofitting** thanks to the ease of fitting, the Sideflow Clean can also be easily retrofitted to existing installations and by using the Flamco T-Plus can even be installed on live systems.
- 4. wide range of applications** the Sideflow Clean is suitable for installations in many sectors, including industrial and utilities. It has a maximum working pressure of up to 16 bar, and is able to work on systems of up to 120,000 litres.
- 5. quick and easy to install** the unit can be mounted for either left hand or right hand applications. Standard features include wall mounting brackets, automatic air vent, drain valve with hose connection and two pressure gauges for differential pressure monitoring.
- 5. easy cleaning and maintenance** the Sideflow Clean has an easy access screw-on cap which allows you to easily remove both the magnet holder and the filter bag for cleaning or replacement as well as dosing the system.



Sideflow Clean

wall mounted, not-pumped

article range

Description	Vessel volume	
	3,5 Litre	5,0 Litre
SideFlow Clean, including: - Filter bag 10 micron (1x) - Filter bag 25 micron (1x) - Filter bag 50 micron (2x) - C-Spanner	17021	17020
Consumables		
Filter bag 10 micron	17036	17031
Filter bag 25 micron	17037	17032
Filter bag 50 micron	17038	17033
C-Spanner	17030	17035

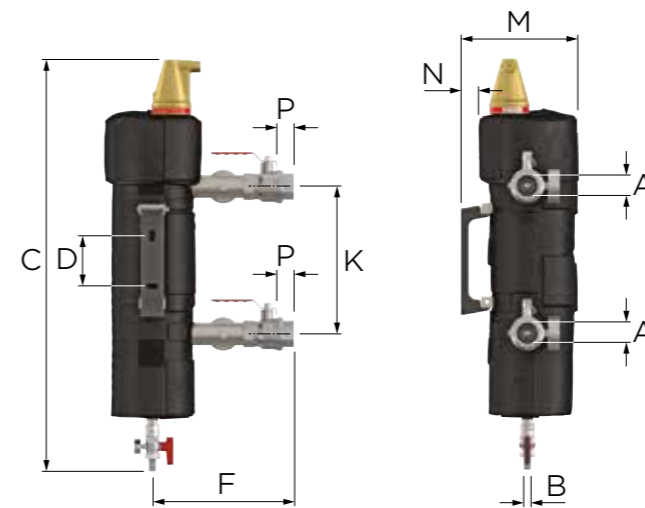


Sideflow Clean 3,5 L
Part No. 17021

Sideflow Clean 5,0 L
Part No. 17020

C-Spanner

technical data



		Vessel volume	
		3,5 Litre	5,0 Litre
System pressure (min / max)	[bar]	0.2 / 10.0	0.2 / 16.0
System size (max)	[l]	70,000	120,000
Flowrate - 10% system flow	[l/s]	0.8	1.3
Kvs Value	[m³/h]	17	67.2
Flow Through Capacity	[m³/h]	2.88	4.68
Fixed magnet bars		1 (10.000 Gauss)	2 (10.000 Gauss each)
Filter bag volume	[l]	1.4	2.4
Medium		water, plus glycol / dosing solutions	
Glycol max. %	[%]	50	
System temperature (min / max)	[° C]	-10 / 100	
Filter particle size (max)	µm	10	
v. min / max	[m/s]	0.2 / 3.0	

Type	A [mm]	B [mm]	C [mm]	D [mm]	F [mm]	K [mm]	M [mm]	N [mm]	P [mm]
SideFlow Clean 3,5 Litre	G ½" F	14,5	728	94	217	275	211	13	15
SideFlow Clean 5,0 Litre	G 1¼" F	14,5	769	94	264	275	238	10	19

Sideflow Clean Pro

floor standing, pumped

The floor standing Sideflow Clean Pro is one of the most powerful magnetite and dirt filters on the market. The unit consists of a powder coated aluminium casing with internal insulation. The SideFlow Clean Pro uses a pump which forces a part of the system water (the 'side stream') to go through a filter and pass a magnet, which means that dirt and magnetite are captured through a combination of a filter bag and magnetic filtration. The Sideflow Clean Pro is suitable for installations in many building types, including a wide range of commercial and industrial buildings.

main benefits

- 1. highly effective dual filtration** the Sideflow Clean Pro includes a highly efficient Dual Filter for magnetic and non-magnetic contaminants. The unit includes 11 powerful magnets (12.000 Gauss) and a high capacity fine filter bag which is able to filter up to 5,000 litres of system water per hour and can filter particles up to 1 µm.
- 2. energy saving** the Sideflow Clean Pro casing is fully and water tight insulated to ensure heat losses are minimised. This guarantees optimal energy-efficient operation.
- 3. plug and play** thanks to its high-end controller with intuitive controller menu with 8 languages installing and commissioning the Sideflow Clean Pro is a matter of plug and play.
- 4. easy operating** the controller offers lots of programming options, Modbus RTU communication, and allows to see all operating statistics in one click.
- 5. wide range of applications** the Sideflow Clean Pro is suitable for installations in many building types, including commercial and utilities. The unit is able to work on systems of up to 200,000 litres.
- 6. easy cleaning and maintenance** the Sideflow Clean Pro Dual Filter has an easy quick lock screw cap which allows you to easily remove both the magnet holder and the filter bag for cleaning or replacement as well as dosing the system.
- 7. easy retrofitting** the Sideflow Clean Pro can be easily retrofitted to existing installations. By using the Flamco T-Plus, the unit can even be installed on live systems!
- 8. automatic switch-off** the Sideflow Clean Pro switches off automatically when the filter is full.



Sideflow Clean Pro

floor standing, pumped

article range

Description	Part No.
Sideflow Clean Pro	17015
Consumable	
Sideflow Clean Pro Filterbag 1µm	17016



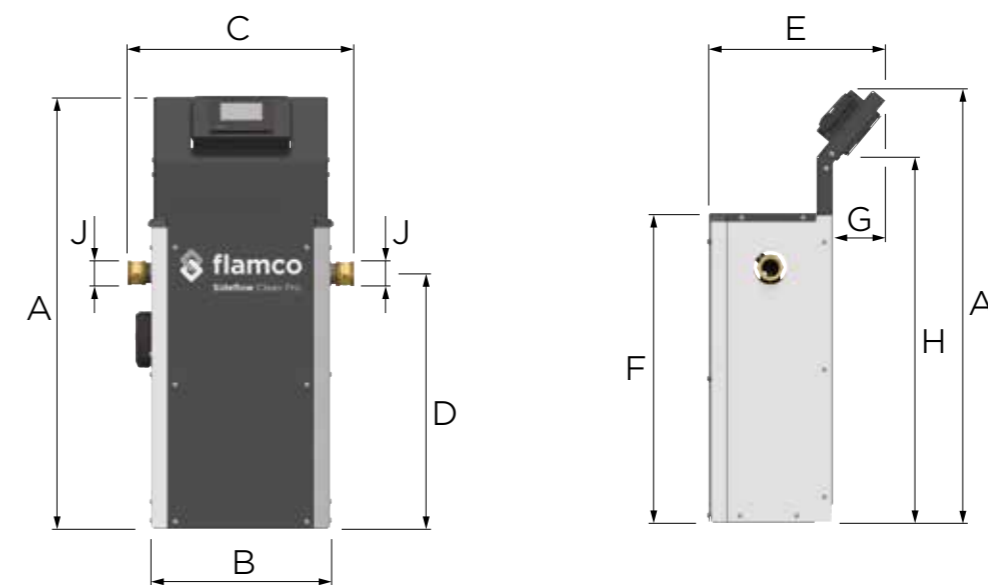
Sideflow Clean Pro
Part No. 17015

Filter bag
Part No. 17016

technical data

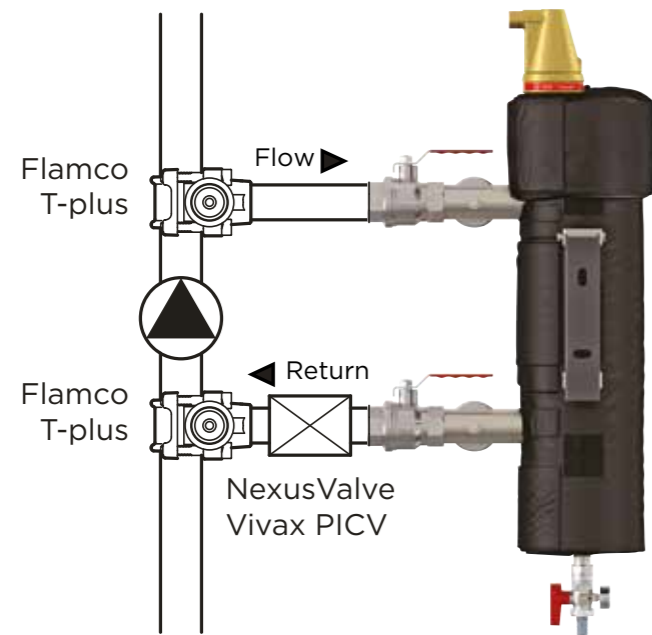
System pressure (min / max)	[bar]	1.3 / 8.0
System size (max)	[l]	200,000
Flowrate - 10% system flow	[l/s]	0,8
Kvs Value at 5m³/h	[m³/h]	13,76
Flow Through Capacity	[m³/h]	5
Fixed magnet bars		11 (12.000 Gauss each)
Filter bag volume	[l]	2
Medium		water, plus glycol / dosing solutions
Glycol max. %	[%]	50
System temperature (min / max)	[° C]	-10 / 80
Filter particle size (max)	µm	1
Sound	dB	45
Power Supply	V	230
v. min / max *	[m/s]	0,24 / 1,0

* For 1.1/2" pipe at flow through capacity 1,2 resp. 5,0 m³/hour

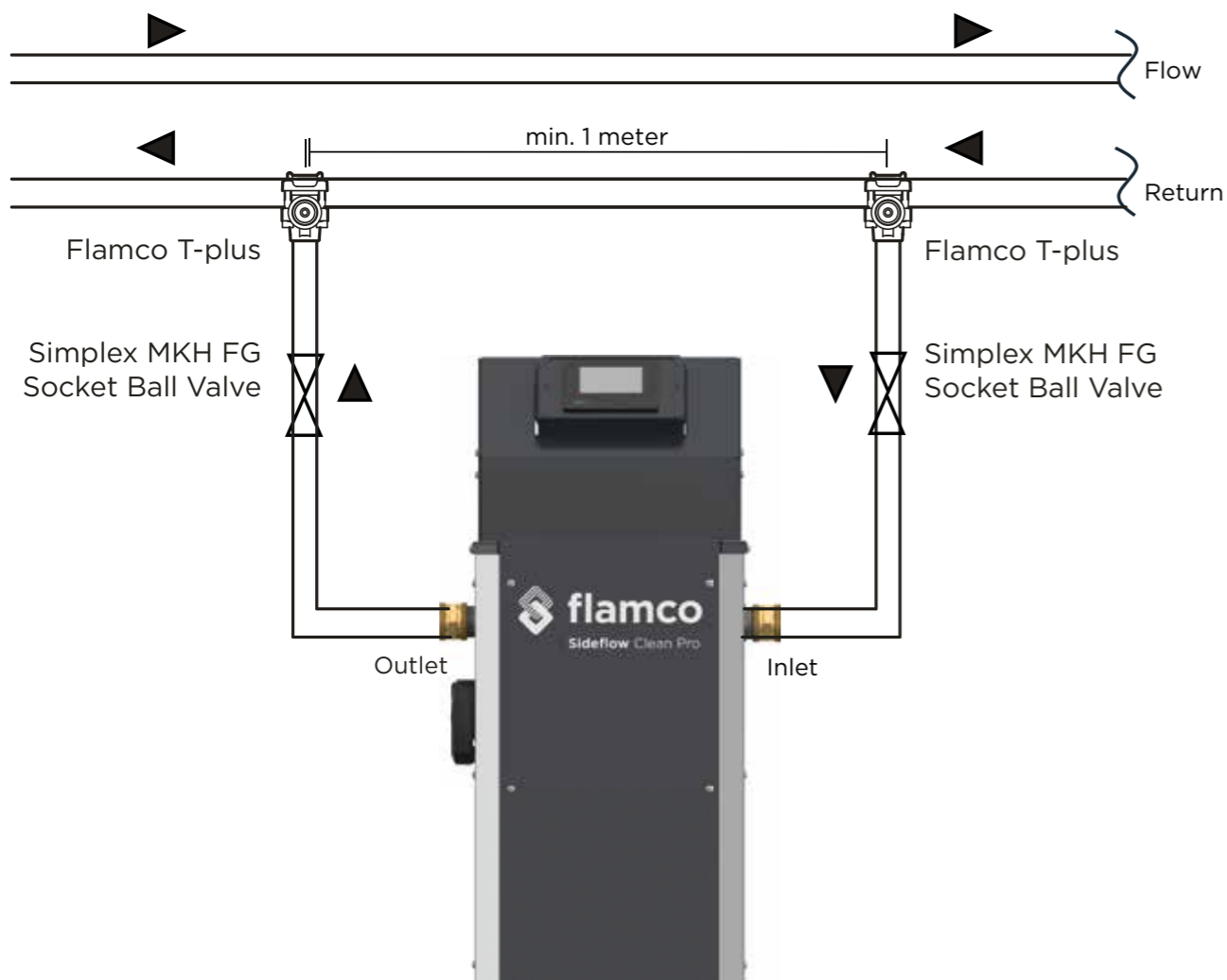


Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	J
Sideflow Clean Pro	988	400	490	584	405	709	120	822	G 1 1/2" F

Application Example: Sideflow Clean



Application Example: Sideflow Clean Pro



Complementary products

For installing a Sideflow Clean even more easily into a central heating or cooling system Flamco offers you the following solutions which will significantly shorten

installation time and improve the flow through the Sideflow Clean.



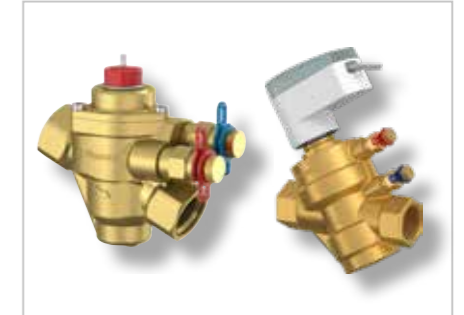
T-plus Pipe Branch Fitting

- For the quick and easy creation of branches in an existing system
- With T-plus the system does not need to be depressurised
- Part No's T-plus for steel pipe:
DN15 = 90615
DN20 = 90620
DN40 = 90640
DN50 = 90650
DN65 = 90665
DN80 = 90680



Simplex MKH FG Socket Ball Valve

- Ball valve with lever handle
- For quick and easy isolation of Sideflow Clean Pro
- Part No's:
1" = F10122
1 1/4" = F10123
1 1/2" = F10115
2" = F10116



NexusValve Vivax G2 EQM PICV

- Pressure Independent Control Valve (PICV) for heating and cooling
- Combination of a balancing valve and a control valve that maintains a constant flow rate regardless of pressure fluctuations
- Slim design, lightweight
- Stable EQM characteristic
- Flow measurement
- High valve authority

NexusValve Vivax product selection depends on the system parameters and customer requirements, see homepage for further details.

- Example selection:
MN80597.060 = for Sideflow Clean 3,5L (17021)
MN80597.0631 = for Sideflow Clean 5,0L (17020)



Other solutions for air and dirt removal

Aalberts hydronic flow control offers a complete range of products from 'source to emitter' which includes a complete range of system conditioning products such as traditional

air & dirt separators as well as products for the mechanical removal of gases using the Vacumat Eco or VacuStream vacuum degassers.



XStream Air- & Dirt Separators



Vacumat Eco Degassing and top-up Automats



VacuStream Degasser



Sentinel X100 and X400 System Conditioners

 Competence & Production Centers

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