

Frese Modula/C Complete solutions for balancing and temperature control

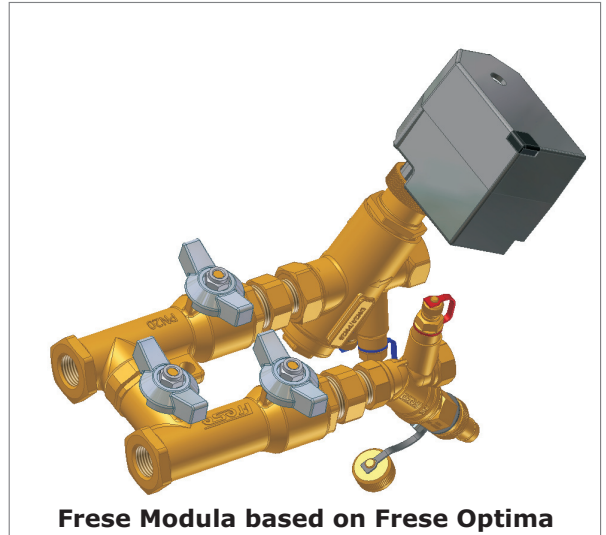
Application

The Frese Modula is a compact and versatile valve system that combines the Frese range of automatic flow, pressure and temperature control valves with the isolation, flushing, draining and measurement components within a prefabricated, tested and ready to install terminal connection assembly.

The Frese Modula integrates one of the following Frese pressure independent solutions:

- Frese Alpha (Dynamic balancing valve).
- Frese Eva (Combined dynamic balancing and 2 port on/off valve).
- Frese Optima (Pressure independent, control valve PICV).

With isolation valves, strainer, drain/hose connection & P/T plug.



Frese Modula based on Frese Optima

Features

- Available in 1/2", 3/4" and 1" end connections.
- Patented Frese Alpha, Frese Eva or Frese Optima technology.
- Compact 80mm supply/return centres,
- Integrated union joints for easy valve alignment.
- 3/4" T-handle ball-valves for flow, return and bypass. Full port valves on flow and return.
- Spindle extensions available.
- Combinations with strainer, drain/hose connection, P/T plug available.
- Construction site oriented packaging.

Benefits

All benefits from the use of Frese Alpha, Frese Eva and Frese Optima valves (see corresponding technotes) and furthermore:

Design

- Minimized design time and risks due to complete solution.
- Guaranteed performance of the complete system.
- Compact design for limited available space.

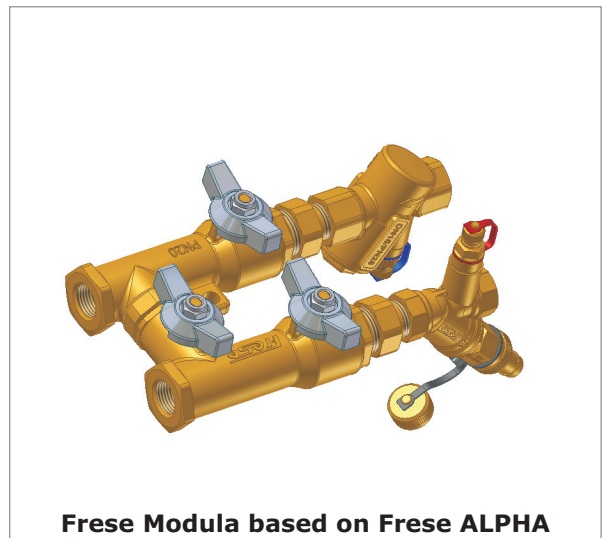
Installation

- Minimized installation and commissioning costs.
- Allows easy flushing and coil isolation.
- Easy lagging of spindle extensions.
- Simple attachment to existing hangers.

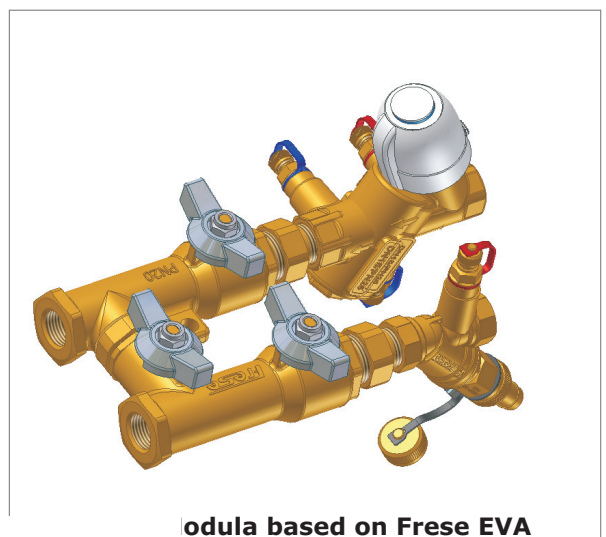
Operation

- High comfort with minimized operation and maintenance costs.

For a full understanding of ALPHA, EVA and Optima solutions please refer to the relevant Technotes



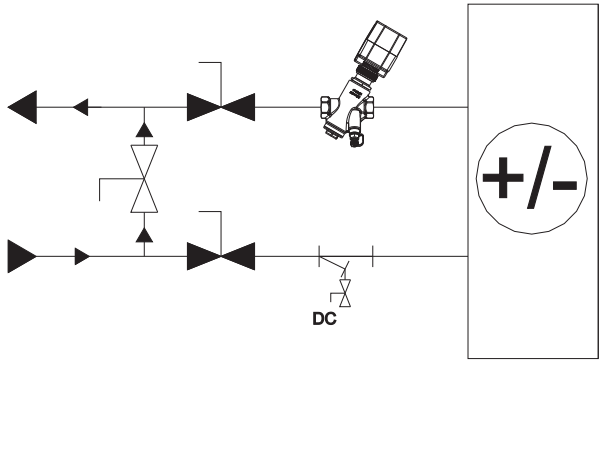
Frese Modula based on Frese ALPHA



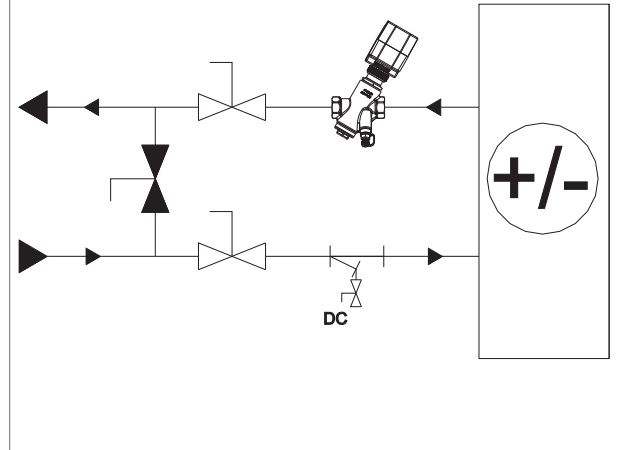
Frese Modula based on Frese EVA

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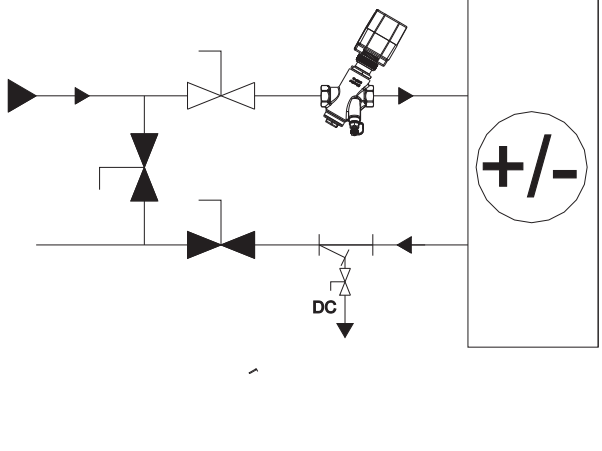
Mode 1
Isolation & Flushing bypass



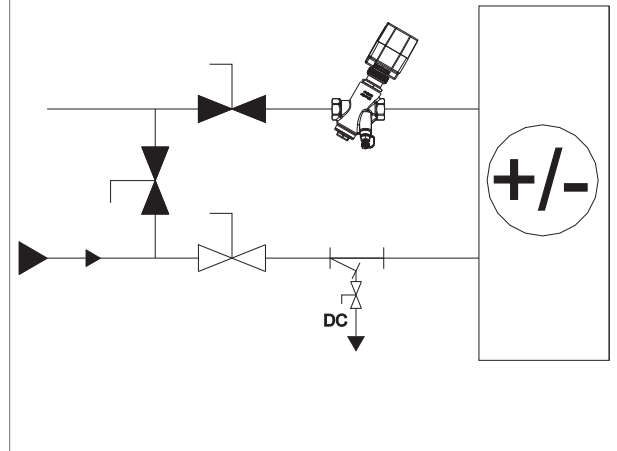
Mode 2
Normal Operation



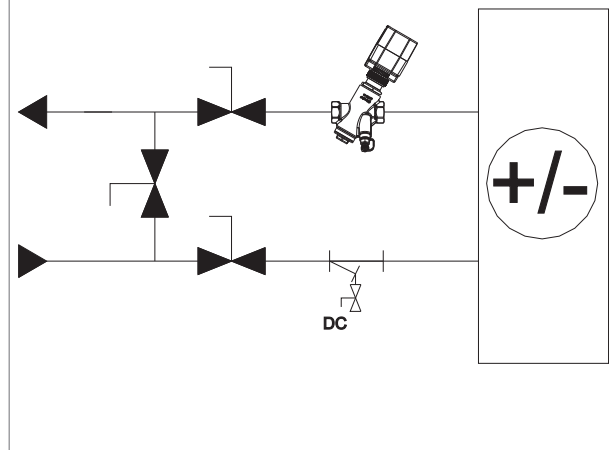
Mode 3
Back Flushing



Mode 4
Forward Flushing



Mode 5
Isolation & Maintenance



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Modula II kit configuration table

						55	Modula II Kit
						1	Optima
						2	ALPHA
						3	EVA High Flow
						4	EVA Basic High Flow
						1	DN 15
						2	DN 20
						3	DN 25
						1	T-Piece with 1" P/T-Plug + drain and hose
						2	T-Piece with 1" P/T-Plug + drain, hose and extension handle
						3	Strainer with 1" P/T-Plug + drain and hose
						4	Strainer with 1" P/T-Plug + drain, hose and extension handle
						5	T-Piece with 1" P/T-Plug/Plug
						6	T-Piece with 1" P/T-Plug/Plug and extension handle
						7	Strainer with 1" P/T-Plug/Plug
						8	Strainer with 1" P/T-Plug/Plug and extension handle
						A	T-Piece with 1" P/T-Plug + drain and hose (Left hand mount)
						B	T-Piece with 1" P/T-plug + drain, hose and extension handle (Left hand mount)
						C	Strainer with 1" P/T-plug + drain and hose (Left hand mount)
						D	Strainer with 1" P/T-plug + drain,hose and extension handle (Left hand mount)
						E	T-piece with 1" P/T-Plug/Plug (Left hand mount)
						F	T-piece with 1" P/T-Plug/Plug and extension handle (Left hand mount)
						G	Strainer with 1" P/T-Plug/Plug (Left hand mount)
						H	Strainer with 1" P/T-Plug/Plug and extension handle (Left hand mount)
						1	1" P/T Plug on valve
						2	2" P/T Plug on valve
						3	Plug
						L	Low Flow
						H	High Flow
						4	Low Pressure
						5	High Pressure
						XXXX	Flow in l/sec. (X.XXX)
55	X	X	X	X	X	XXXX	
	Valve	Size Modula II combination	Valve plug	Flow/Pressure	Cartridge		

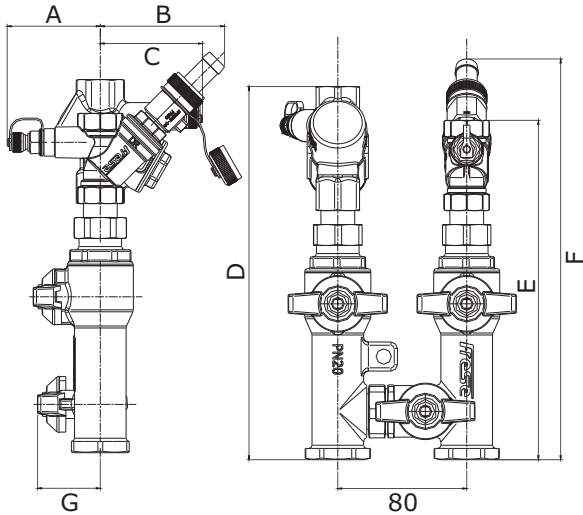
You have now completed Modula Kit 55 and should end up with a combination selection of six items. Example of order combination will hence be: 55-1-1-2-1-L-XXXX

Specification text Frese Modula

The valve system shall combine an dynamic balancing valve with a fixed 80mm distance supply/return component. The balancing valve can also be a combination valve for dynamic balancing and control. Frese ALPHA, Frese EVA, Frese ALPHA cartridges, Frese OPTIMA (see corresponding technote).

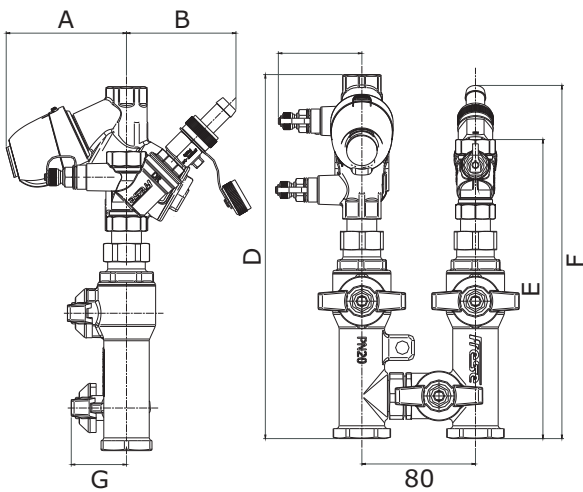
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Frese MODULA with Frese ALPHA



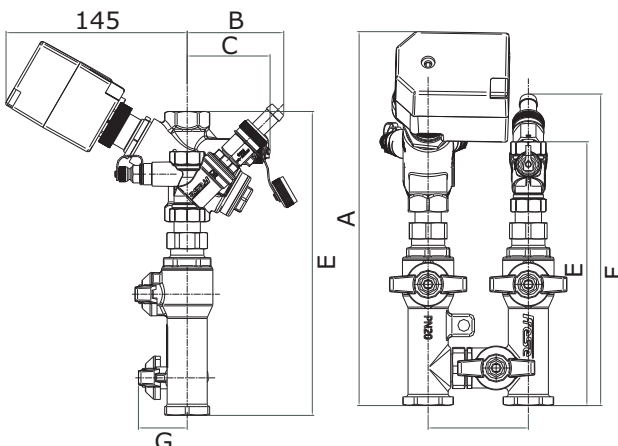
Modula - ALPHA				
	DN 15	DN 20	DN 25	
A	58	62	66	
B	79	87	97	
C	63/102	63/102	63/102	1" PT/2" PT
D	231	231	239	
E	211	230	257	
F	249	266	293	
G	41/88	41/88	41/88	Std Handle / Ext handle

Frese MODULA with Frese EVA



Modula - EVA				
	DN 15	DN 20	DN 25	
A	85	85	85	
B	79	87	97	
C	59/98	59/98	59/98	1" PT/2" PT
D	256	256	264	
E	211	230	257	
F	249	266	293	
G	41/88	41/88	41/88	Std Handle / Ext handle

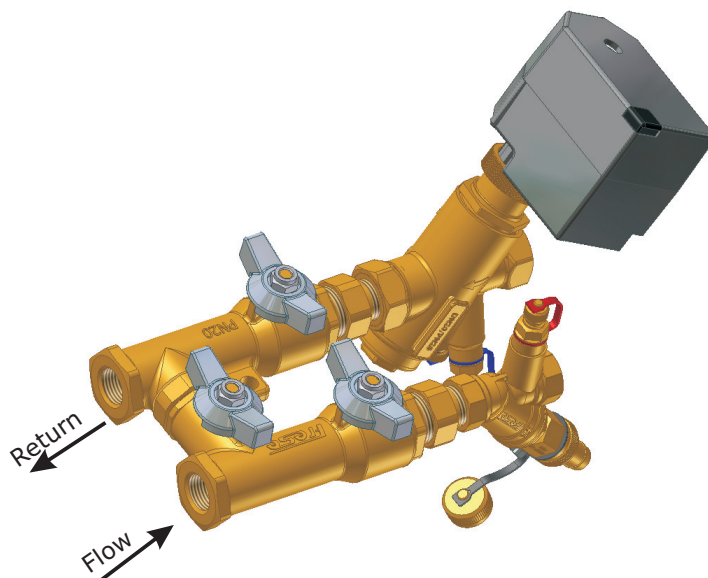
Frese MODULA with Frese OPTIMA



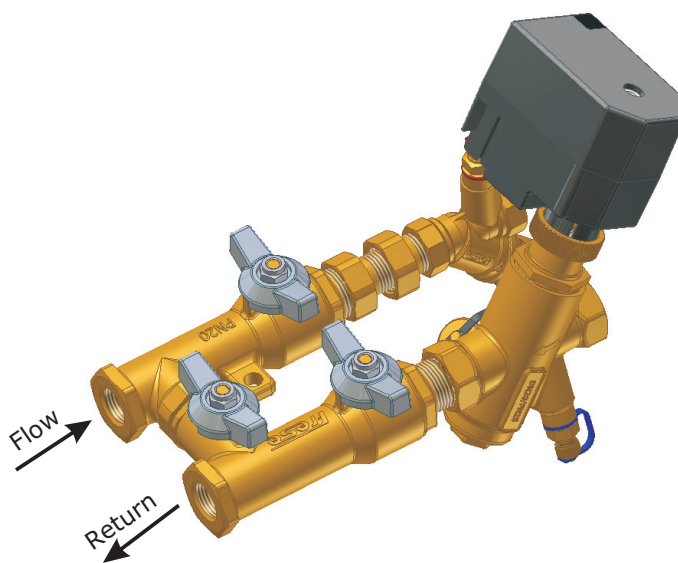
Modula - OPTIMA				
	DN 15	DN 20	DN 25	
A	298	298	311	
B	79	87	97	
C	66/100	66/100	56/100	1" PT/2" PT
D	243	243	251	
E	211	230	257	
F	249	266	293	
G	41/88	41/88	41/88	Std Handle / Ext handle

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Right hand version Optima



Left hand version Optima



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