

MODULA

Pro-series, DN15-DN25

Description

MODULA Pro-series is a compact and versatile valve system that combines the Frese range of Pressure Independent Control Valves with isolation, flushing, draining and measurement components within a prefabricated, tested and ready to install terminal bypass unit.

MODULA Pro-series integrates one of the following Frese valve solutions:

- OPTIMA Compact and OPTIMA Compact Veriflow-series (Pressure Independent Control Valve - PICV)

Each unit is supplied with isolation valves, strainer, drain & P/T plug.



Benefits

The MODULA Pro-series Bypass Unit combines the many benefits of the OPTIMA Compact range in addition to:

Installation benefits

- Compact design for limited space availability
- Minimized installation and commissioning costs
- Allows easy flushing and coil isolation

Operation benefits

- High comfort with minimized operation and maintenance costs
- Efficient flow, temperature and pressure control
- 5 modes of operation (see pages 6 and 7)

For further information on the OPTIMA Compact valves please refer to the relevant Technotes.

Features

- Available in DN15, DN20 and DN25
- Available with 100 mm centre to centre distance
- Integrated union joints for easy valve alignment
- Three T-handle isolation valves for flow, return and bypass
- Full flow ball valves on flow and return
- Spindle extensions
- Combinations with strainer, drain connection, P/T plug
- P/T plug on the flow for measuring the DP across the terminal unit
- Coupling with female connection standard

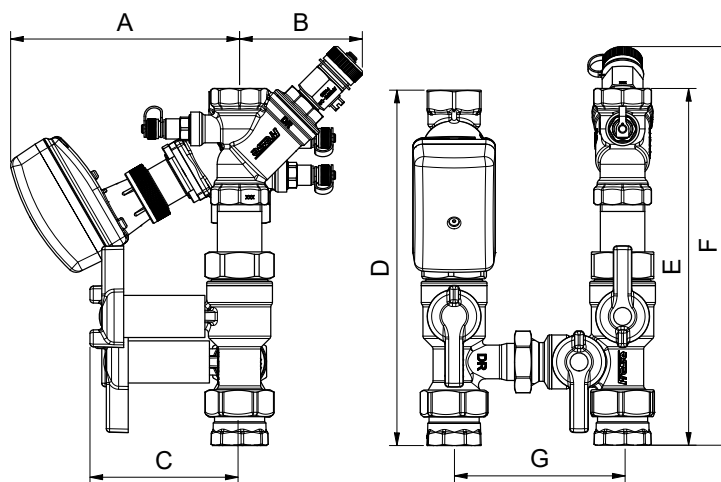
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Technical data

Material:	DZR Brass, CW602N
O-rings:	EPDM
Pressure class:	PN25
Strainer filter:	
Mesh:	32 (0.5 mm)
Strainer material:	Stainless steel AISI304
Ball valves:	
Ball material:	DZR Brass, CW602N nickel plated
Seat ring material:	PTFE
Medium temperature range:	0°C to 120°C

Dimensions



MODULA Pro-series · OPTIMA Compact / OPTIMA Compact, Veriflow-series

mm	DN15	DN20	DN25	DN25L
A	117	117	120	135
B	74	86	92	92
C	88			
D	155	160	164	181
E	136	150	165	165
F	176	188	204	204
G	100			
KV-bypass	5.2	6.3	7.1	

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Product Code Builder

60	MODULA Pro-series					
	1	Right hand version and extension handles cooling				
		Left hand version and extension handles cooling				
		Right hand version and extension handles heating				
		Left hand version and extension handles heating				
	2	DN15 - 100 mm				
		DN20 - 100mm				
		DN25 - 100mm				
	3	Strainer with drain 1" P/T- plug				
	AV	DN15 LF 2.5 Veriflow	AP	DN15 LF 2.5 PT	AB	DN15 LF 2.5
		DN15 HF 2.5 Veriflow	BP	DN15 HF 2.5 PT	BB	DN15 HF 2.5
		DN15 LF 5.0 Veriflow	CP	DN15 LF 5.0 PT	CB	DN15 LF 5.0
DN15 HF 5.0 Veriflow		DP	DN15 HF 5.0 PT	DB	DN15 HF 5.0	
DN20 2.5 Veriflow		EP	DN20 2.5 PT	EB	DN20 2.5	
DN20 5.0 Veriflow		FP	DN20 5.0 PT	FB	DN20 5.0	
DN20 5.5 Veriflow		GP	DN20 5.5 PT	GB	DN20 5.5	
DN25 5.5 Veriflow		HP	DN25 5.5 PT	HB	DN25 5.5	
DN25L 5.5 Veriflow		IP	DN25L 5.5 PT	IB	DN25L 5.5	
A Couplings on piping side						

60	X	X	1	XX	A
MODULA Pro-series	Valve type	Size/Center distance	Flow side component	OPTIMA Compact valve	Couplings

Example of product code: 602-11-DV-A

- MODULA Pro-series
- Left hand version and extension handle cooling
- DN15 -100 mm center distance
- Strainer with drain 1" P/T- plug
- OPTIMA Compact DN15 HF 5.0 Veriflow
- Couplings on piping side

* When using the KV-signal for flow measurement, the accuracy is ±5% (See OPTIMA Compact Veriflow Technote for detailed specifications)

OPTIMA Compact codes for MODULA Pro-series and corresponding item numbers

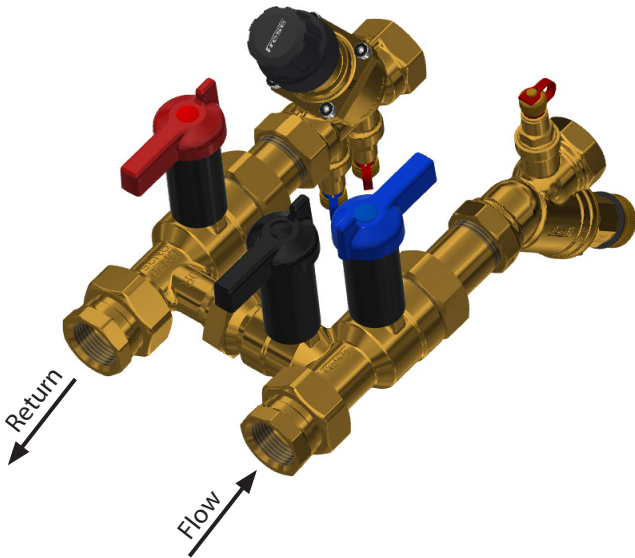
OPTIMA Compact Veriflow-series			OPTIMA Compact F/F PT-plugs			OPTIMA Compact F/F		
Code	Item no.	Valve	Code	Item no.	Valve	Code	Item no.	Valve
AV	53-5362	DN15 LF 2.5 Veriflow	AP	53-1362	DN15 LF 2.5 PT	AB	53-1342	DN15 LF 2.5
BV	53-5364	DN15 HF 2.5 Veriflow	BP	53-1364	DN15 HF 2.5 PT	BB	53-1344	DN15 HF 2.5
CV	53-5370	DN15 LF 5.0 Veriflow	CP	53-1370	DN15 LF 5.0 PT	CB	53-1350	DN15 LF 5.0
DV	53-5365	DN15 HF 5.0 Veriflow	DP	53-1365	DN15 HF 5.0 PT	DB	53-1345	DN15 HF 5.0
EV	53-5372	DN20 2.5 Veriflow	EP	53-1372	DN20 2.5 PT	EB	53-1352	DN20 2.5
FV	53-5368	DN20 5.0 Veriflow	FP	53-1368	DN20 5.0 PT	FB	53-1348	DN20 5.0
GV	53-5338	DN20 5.5 Veriflow	GP	53-1338	DN20 5.5 PT	GB	53-1318	DN20 5.5
HV	53-5339	DN25 5.5 Veriflow	HP	53-1339	DN25 5.5 PT	HB	53-1319	DN25 5.5
IV	53-5373	DN25L 5.5 Veriflow	IP	53-1373	DN25L 5.5 PT	IB	53-1353	DN25L 5.5

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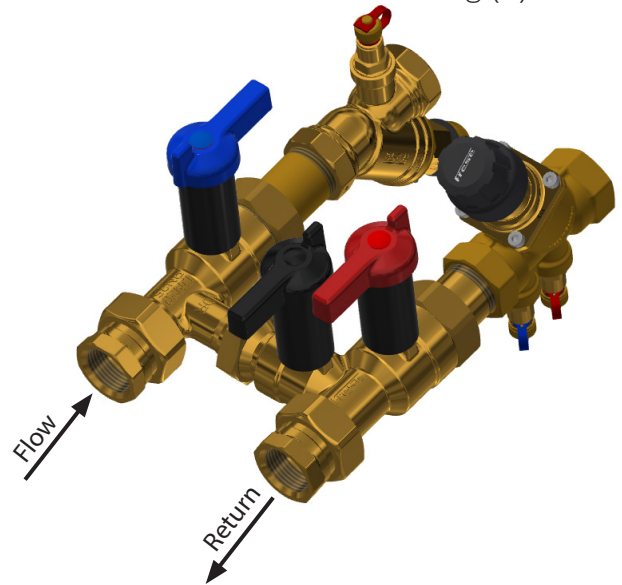
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Versions

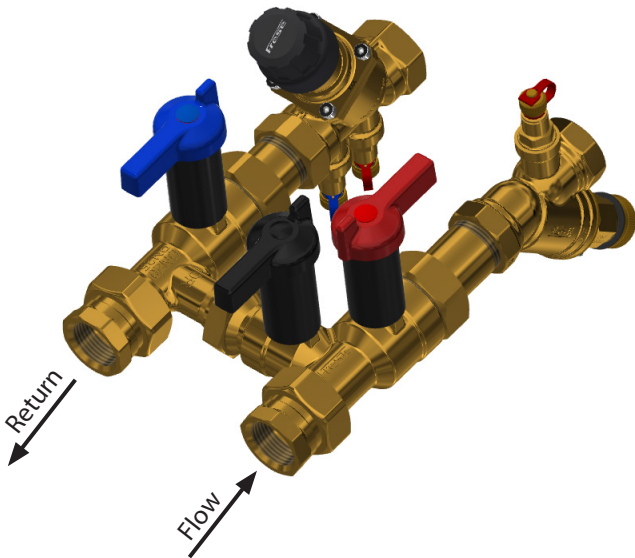
Right hand version cooling (1)



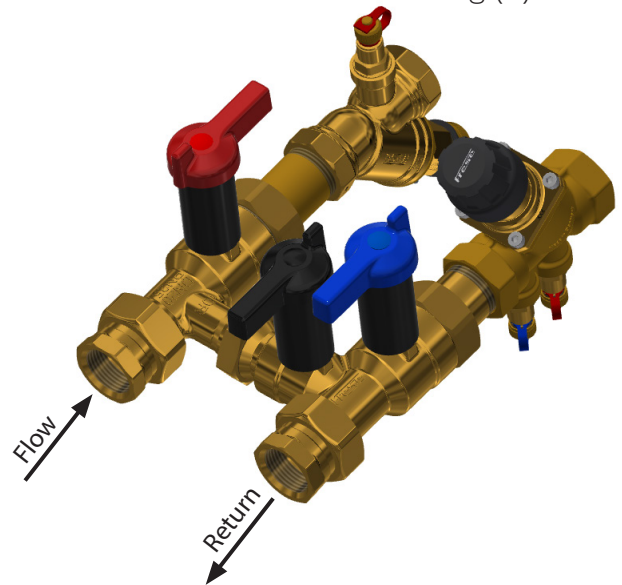
Left hand version cooling (2)



Right hand version heating (3)



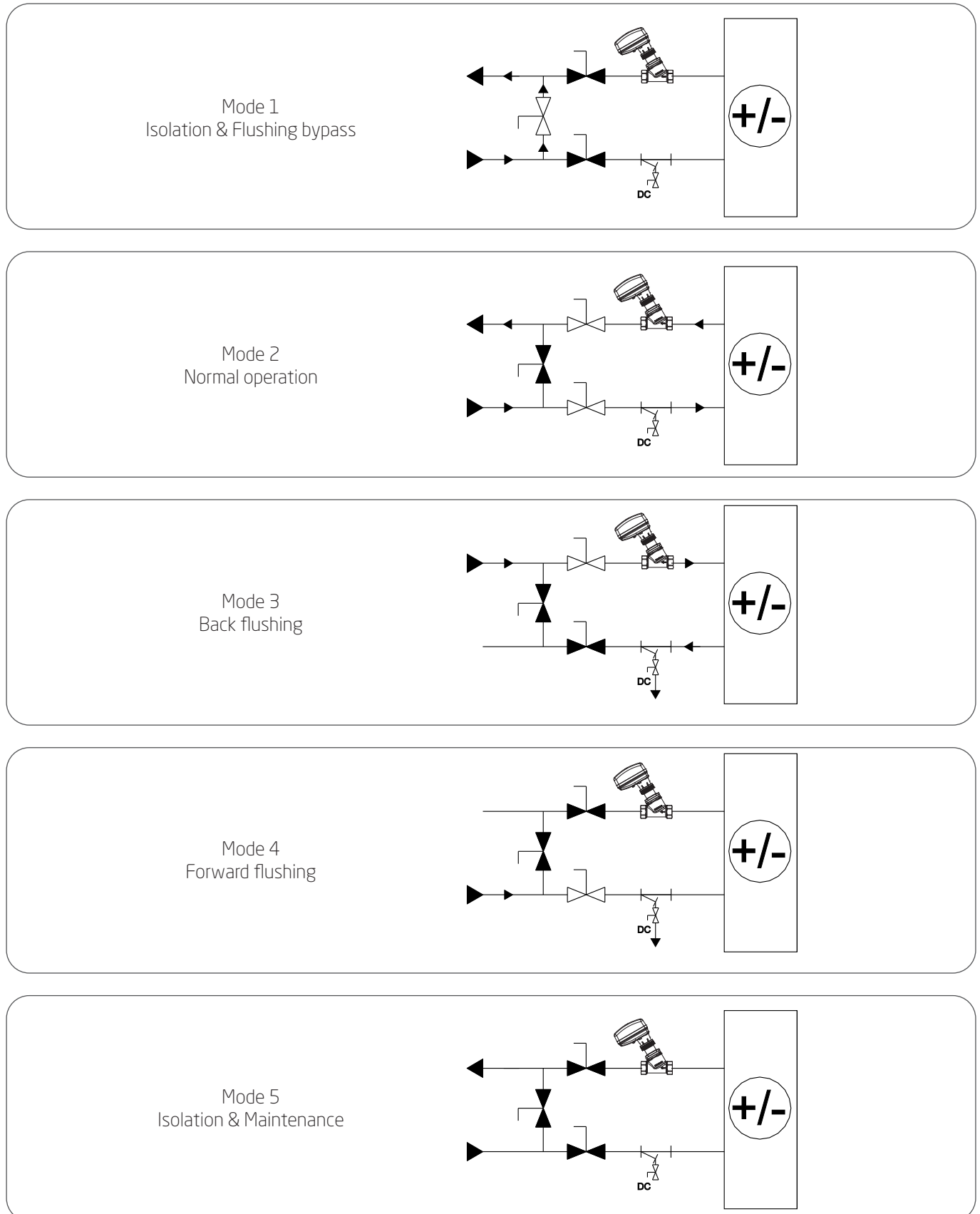
Left hand version heating (4)



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Modes of Operation - Right Hand Version




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Accessories

MODULA Pro-series insulation	MODULA dimension	Insulation Covers Frese no.
	DN15	38-0883
	DN20	38-0884
	DN25-DN2525L	38-0885

Frese Flexible Hose	Dimension	Length [mm]	Frese no.
	DN15	300	48-0050
		450	48-0051
		600	48-0052
	DN20	300	48-0053
		450	48-0054
		600	48-0055
	DN25	300	48-0056
		450	48-0057
		600	48-0058

For more details please refer to the Frese Flexible Hose Technote.

Hose Connection	Dimension	Frese no.
	DN15	46-9012

Specification Text - MODULA Pro-series

- The valve system shall combine a dynamic or a static balancing valve with a fixed 100mm distance between supply and return
- The bypass unit shall have three integral isolation valves and a PT strainer/drain on the supply side
- The bypass unit shall have a pressure class of PN25
- The medium temperature range shall be 0°C to 120°C
- All material shall be DZR brass, CW602N

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