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Technical Datasheet

Multi Control Valve



The GF Multi Control Valve is a compact integrated solution for liquid cooling applications. It combines flow control, ultrasonic flow measurement, pressure and temperature sensing, thermal energy monitoring, and communication in one device. The integrated design simplifies system layout, installation, commissioning and operation while enabling continuous hydraulic monitoring and control.

- Suitable for liquid cooling applications
- Integrated solution with flow, pressure and temperature sensing
- Continuous thermal energy monitoring
- Closed-loop control of flow, differential pressure, differential temperature and thermal power
- Wear-resistant linear ceramic disc valve
- Ultrasonic flow measurement
- 2-way valve for closed water systems
- Compact design with single connection cable
- IO-Link, Modbus RTU and BACnet MS/TP

10/2026-A 2142142

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Technical data

Multi Regulating Valve

Functions

Functions		Flow control, flow measurement, pressure and temperature measurement, calculation functions
Measured values		Flow, P2, T2, bubble detection
Calculated values		ΔP, ΔT, thermal power, thermal energy (with Multi Sensor Fitting)
Control functions		Position control, flow control, thermal power control, differential pressure control, differential temperature control

General

Body dimensions		DN25, DN50
Flow classes l/h (Kv 100)		8'000, 28'000, 36'000, 51'000
Integrated valve		Linear ceramic disc control valve
Actuator		Stepper motor
Manual override		Integrated
Status indicators	Display	LED display
	Status LED	Green, blue, red
Fail-safe	Depending on version	Without fail-safe
		Fail-safe open/close (Factory setting Fail-safe open)
Open-to-close time		5 s

Flow

Flow sensor		Ultrasonic transit-time flow sensor
Flow accuracy		±2 %, according to EN 1434 class 2
Min. flow measurement		0.2% of V_{100}

Temperature

Temperature sensor		Pt1000, according to EN 60751
Temperature deviation absolute		±0.3 K
Temperature differential	With Multi Sensor Fitting	±0.17 K @ ΔT = 5 K ±0.22 K @ ΔT = 10 K ±0.32 K @ ΔT = 20 K

Pressure

Pressure sensor		Monolithic ceramic pressure sensor
Pressure range		0 ... 10 bar
Pressure resolution		1 mbar
Pressure deviation absolute		±0.15 % full scale
Pressure differential	With Multi Sensor Fitting	±0.03 bar @ ΔP = 0.1 / 0.5 / 1.0 bar

Materials

Media-contacting components	Body, measuring tube	PPS GF
	Valve disc, valve seat	Ceramic
	Shaft, temperature sensor	Stainless steel
	Pressure-sensing element	Ceramic
	Seals, gaskets	EPDM
Other parts		Stainless steel

Electrical and Communication

Electrical connection	Power/Communication	M12 5-pin, female
	Multi Sensor Fitting	M12, 5-pin, male
Supply voltage	AC	19.2 ... 28.8 V AC
	DC	18.0 ... 28.8 V DC
	Frequency	50/60 Hz, for AC supply
	Required supply type	SELV/PELV
Power consumption max.		1.4 A / 25.2 W
Power consumption max.	Valve and Fitting	1.45 A / 26.1 W
Pollution degree		3
Communication interfaces		IO-Link[1)], Modbus RTU, BACnet MS/TP
Default active interface		Depending on type

Multi Regulating Valve	
Analog output	0–10 V / 4–20 mA

[1] Modbus TCP, EtherNet/IP and PROFINET can be connected via IO-Link and our IO-Link Master

Multi Sensor Fitting

Functions

Functions	Pressure and temperature sensing
Measured values	P1, T1

General

Body dimensions	DN25, DN50
Flow classes l/h (Kv 100)	40'000, 113'000
Pressure sensor	Ceramic pressure sensor
Temperature sensor	Pt1000, according to EN 60751

Measurement error

Temperature absolute	±0.3 K
Pressure absolute	±0.15 % full scale

Materials

Media-contacting components	Body	PPS GF
	Temperature sensor	Stainless steel
	Pressure-sensing element	Ceramic
	Seals, gaskets	EPDM
Other parts		Stainless steel

Electrical and Communication

Electrical connection		M12, 5-pin, female
Connection cable to Multi Regulating Valve		M12, 5-pin to M12, 5-pin, 1 m
Supply voltage	AC	19.2 ... 28.8 V AC
	DC	18.0 ... 28.8 V DC
	Frequency	50/60 Hz, for AC supply
	Required supply type	SELV/PELV
Pollution degree		3
Power consumption max.		0.25 A / 7.0 W
Communication/power transfer	Communication with Multi Regulating Valve	Modbus RTU
	Stand-alone communication	Modbus RTU or IO-Link

Shared data

Application

Temperatures	Medium temperature	0 ... +60 °C
	Ambient temperature	0 ... +50 °C
	Storage temperature	-20 ... +90 °C
Ambient humidity	Max. 98 % RH, non-condensing	
Protection class	IP68 according to EN 60529[1)]	
Pressure rating	PN10	
Operating altitude	2,000 meters above sea level (AMSL)	
Shock	EN60068-2-64	

Medium

Properties	Water, DI water, water-glycol mixtures up to 60 % vol. For chemical compatibility see Chemical Resistance Tool	
Water quality	For use in closed hydronic circuits. Use only media that comply with the applicable water quality requirements. Install an upstream strainer to protect the sensor and valve components from contamination.	

Connection Ends

Dimensions	Body dimension DN25	DN15 - DN25
	Body dimension DN50	DN25 - DN50
Connection end types	Mechanical connection ends	Tri-Clamp Stainless steel (Sanitary clamp connection), SS304/1.4301
	Weldable connection ends	Fusion Spigots PP-H

Standards and Approvals

Directives and standards	Machinery Directive	2006/42/EC (until 19 January 2027)
	Machinery Regulation	(EU) 2023/1230 (from 20 January 2027)
	Pressure equipment Directive	2014/68/EU
	EMC Directive	2014/30/EU
	Product standard	EN ISO 16135
	Applied standards	EN ISO 12100, EN 61326-1, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021
Test standards	Leakage rate	Leakage class V per EN/IEC 60534-4
Approvals	CE, cULus (pending)	

[1)] Immersion in water with 1m depth for 2 hours. Designed for wet & dry locations (NEC)

[2)] Modbus TCP, EtherNet/IP and PROFINET can be connected via IO-Link and our IO-Link Master

Flow characteristics

The Kv 100 value specifies the flow rate of water through the fully open component at a pressure loss of 1 bar. The Cv 100 value specifies the corresponding US flow coefficient at a pressure loss of 1 psi and a temperature of 60 °F.
The values apply to water and fully open flow conditions. Pressure loss depends on the actual flow rate and can be calculated using the pressure loss diagrams in the following chapter.

Kv 100 values – Multi Regulating Valve

Multi Regulating Valve body					Connection Ends			Flow characteristics				
Type	Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Kv 100 (l/min)	Cv 100 (US gal/min)	Kv 100 (m^3/h)	Flow rate Q100 (l/h)	PN (bar)
MCV2-1	Standard	25	32	1	25	32	1	133.3	9.2	8	8'000	10
MCV5-2	High	50	63	2	25	32	1	466.6	32.4	28	28'000	10
MCV5-3	Standard	50	63	2	50	63	2	600.0	41.6	36	36'000	10
MCV5-5	High	50	63	2	50	63	2	850.0	58.9	51	51'000	10

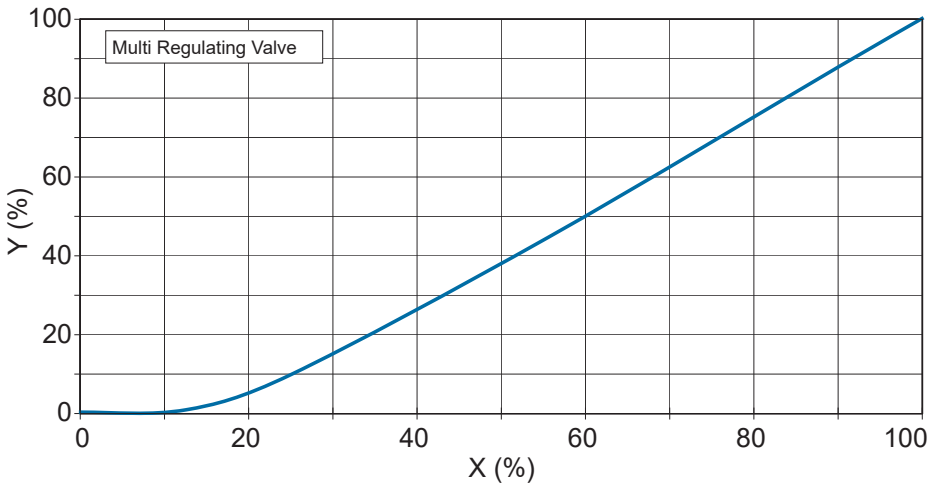
Kv 100 values – Multi Sensor Fitting

Multi Sensor Fitting body					Connection Ends			Flow characteristics				
Type	Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Kv 100 (l/min)	Cv 100 (US gal/min)	Kv 100 (m^3/h)	Flow rate Q100 (l/h)	PN (bar)
MSF2-4	High	25	32	1	25	32	1	666.7	46.2	40	40'000	10
MSF5-6	High	50	63	2	50	63	2	1883.3	130.6	113	113'000	10

Flow characteristics diagram – Multi Regulating Valve

The diagram shows the relative flow characteristic of the valve. The absolute Kv and Cv values for each valve size are listed in the respective table.

Flow characteristics Multi Regulating Valve



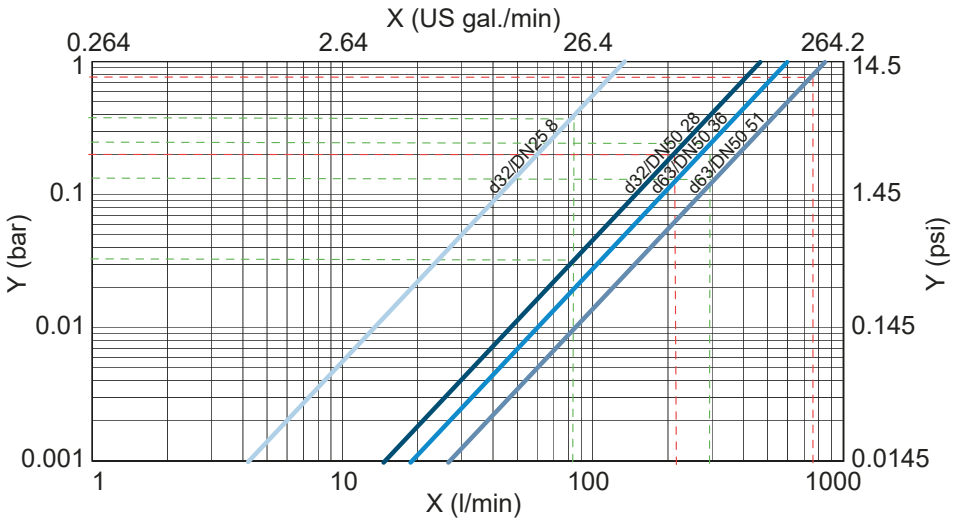
X Valve position (%)
Y Relative Kv/Cv value (%)

Pressure losses

For the total pressure loss of the complete Multi Control Valve system, add the pressure loss of the Multi Regulating Valve and the Multi Sensor Fitting.

Pressure loss – Multi Regulating Valve

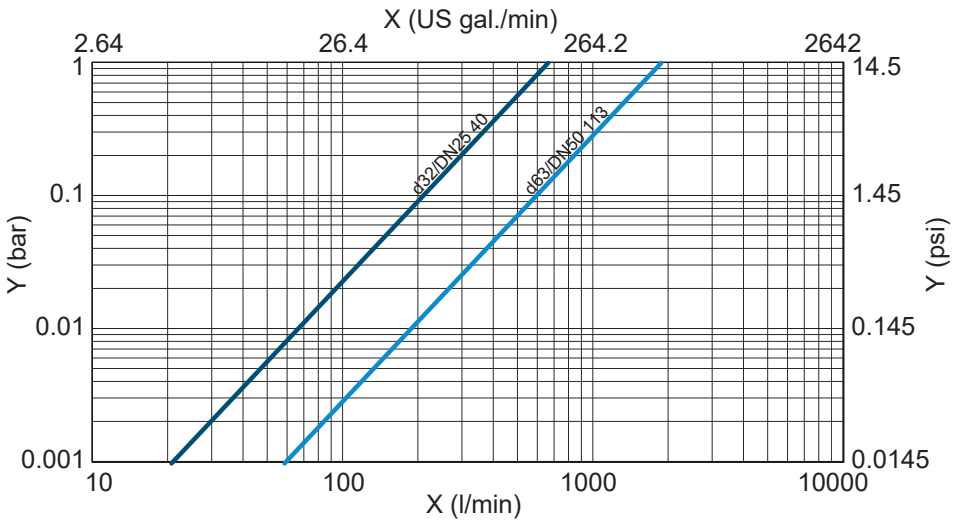
Multi Regulating Valve



X Flow rate Q (l/min, US gal/min)
Y Pressure loss Δp (bar, psi)
--- V = 2 m/s
--- V = 5 m/s

Pressure loss – Multi Sensor Fitting

Multi Sensor Fitting

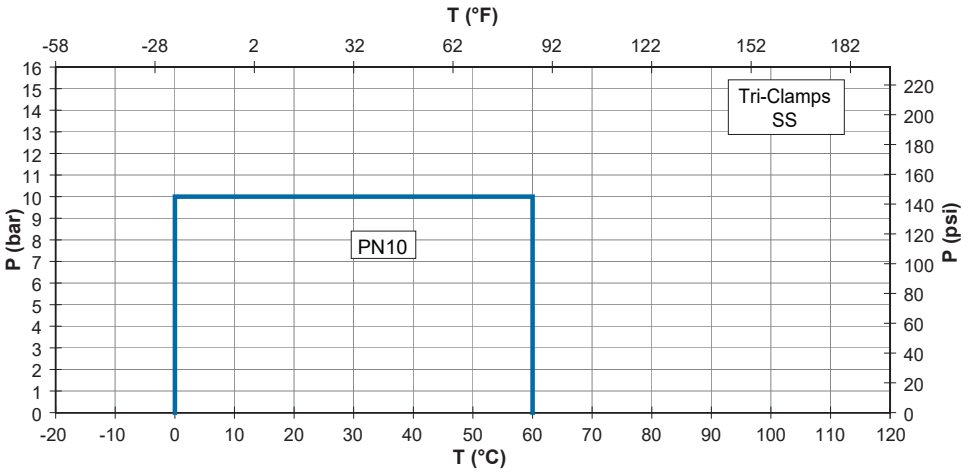


X Flow rate Q (l/min, US gal/min)
Y Pressure loss Δp (bar, psi)

Pressure-temperature diagrams

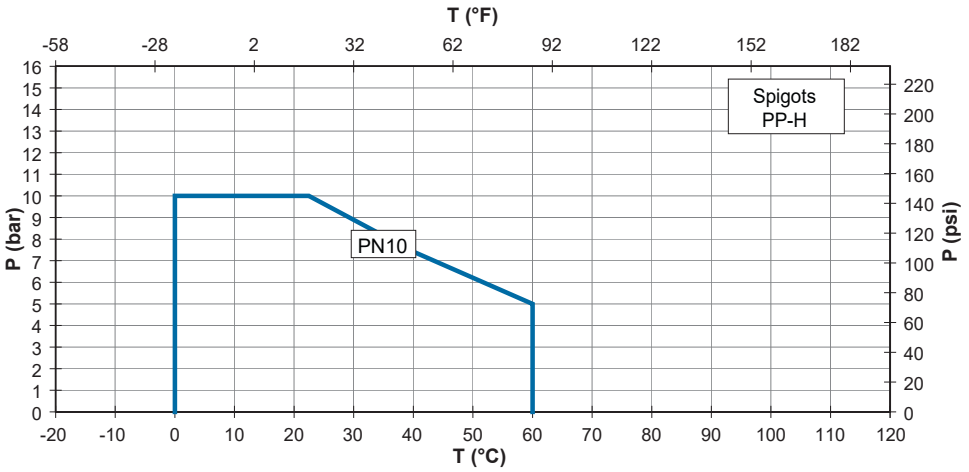
The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media. No service life is guaranteed. The permissible operating pressure is limited to PN10 within the specified medium temperature range.
The permissible pressure of the complete piping system is determined by the component with the lowest pressure rating. For piping components and connection ends made of plastic, the material-specific pressure-temperature limits according to the GF Planning Fundamentals must be observed.

Tri-Clamps Stainless Steel



T Temperature (°C, °F)
P Permissible pressure (bar, psi)

Spigots PP-H



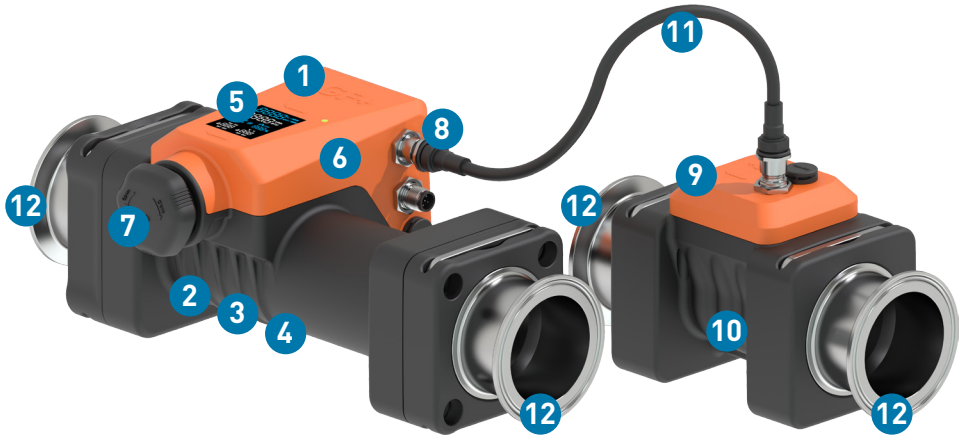
T Temperature (°C, °F)
P Permissible pressure (bar, psi)

Product description

Design and main components

The GF Multi Control Valve is a compact integrated solution for liquid cooling applications. It combines flow control, flow measurement, pressure and temperature sensing, thermal energy monitoring, and communication in one device. By integrating these functions into a single system, it reduces piping complexity, simplifies installation and commissioning, and enables continuous monitoring of the hydronic circuit. The system consists of four main elements: the Multi Regulating Valve, the Multi Sensor Fitting, the connection cable, and the modular connection ends.
All supported communication interfaces are integrated in the device. The ordered interface is factory preset, allowing direct access via the selected protocol without first reconfiguring the device through another, unfamiliar interface. Supported interfaces include IO-Link (Modbus TCP, EtherNet/IP and PROFINET can be connected via IO-Link and our IO-Link Master), Modbus RTU and BACnet MS/TP.

Overview

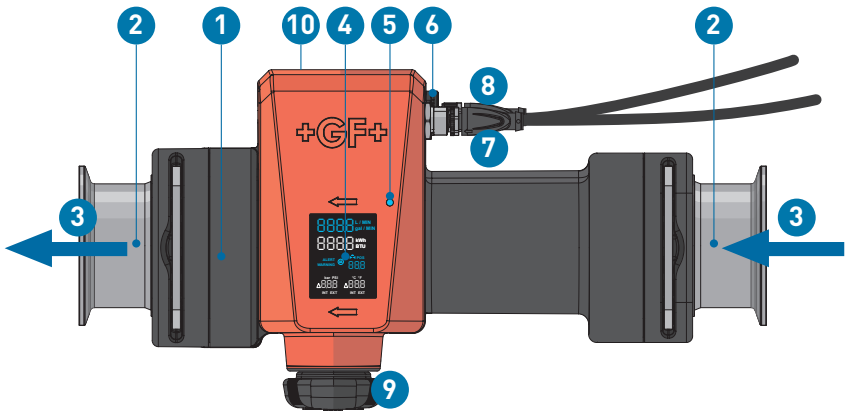


1 Multi Regulating Valve
2 Electric actuated ceramic disc valve with linear flow characteristics
3 Temperature and Pressure sensors
4 Ultrasonic flowmeter
5 Display
6 Status LED
7 Manual Override
8 Power/Communication port
9 Multi Sensor Fitting
10 Temperature and Pressure Sensor
11 Multi Sensor Fitting communication cable
12 Modular Connection Ends

Multi Regulating Valve

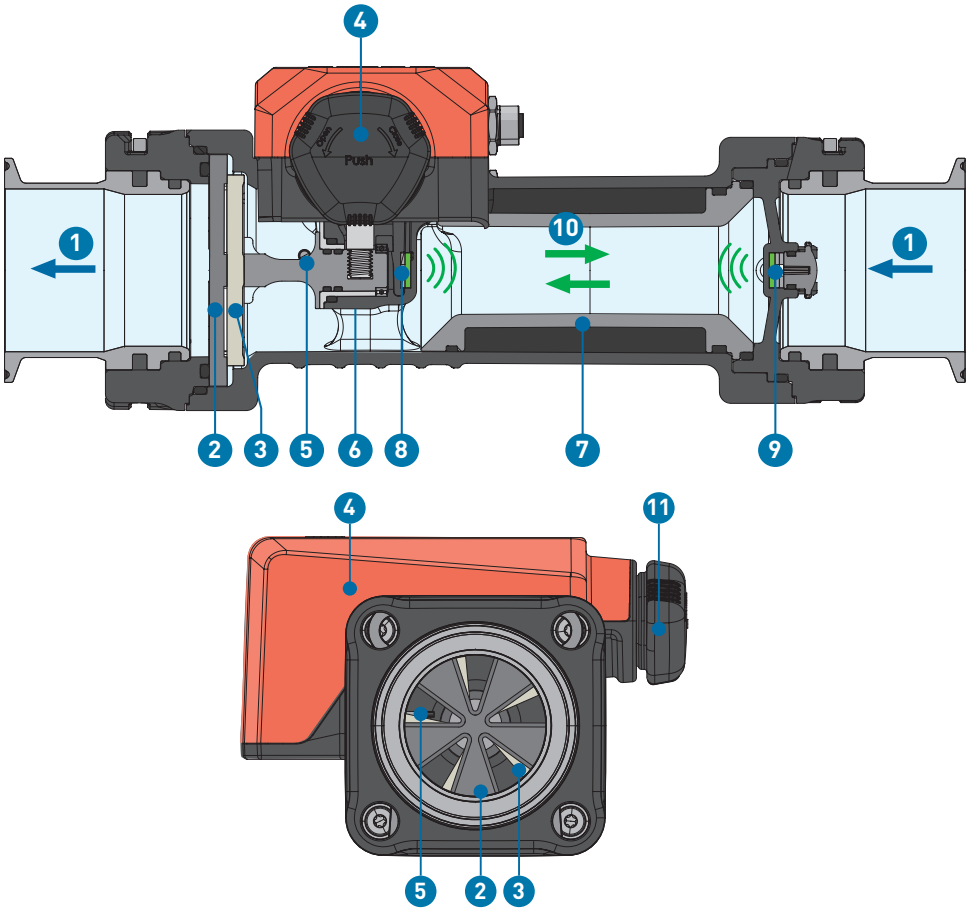
The Multi Regulating Valve is the central unit of the system. It combines flow control, flow measurement, pressure and temperature sensing, local indication, and communication in one compact device. Together with the Multi Sensor Fitting, it enables differential pressure, differential temperature, and thermal energy calculation.

Multi Regulating Valve



1 Multi Regulating Valve body
2 Connection Ends
3 Flow direction
4 Display
5 Status LED
6 Vent valve
7 Connection to Multi Sensor Fitting
8 Electrical connection
9 Manual override
10 Identification label

Multi Regulating Valve

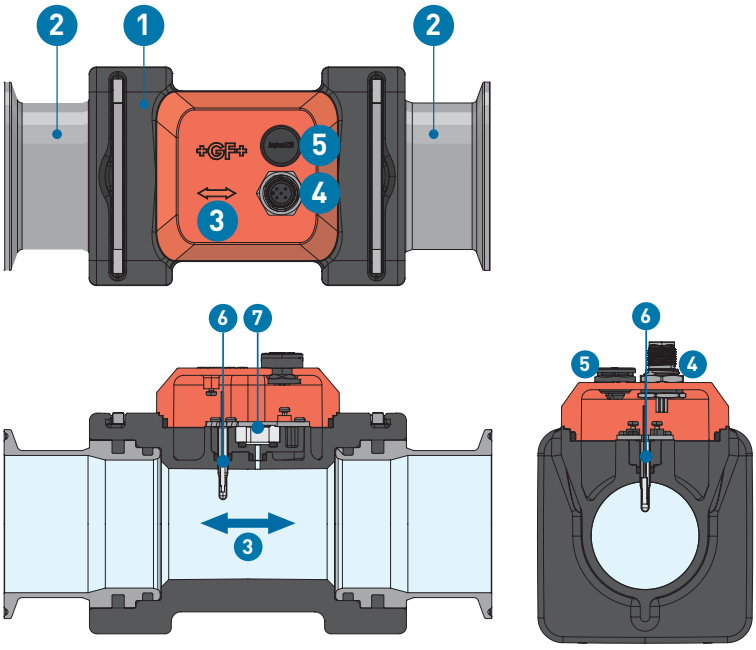


1 Flow direction
2 Fixed ceramic seat
3 Rotary ceramic disc
4 Manual override
5 Temperature Sensor (Pt1000)
6 Ceramic pressure sensor
7 Measuring tube
8 Ultrasonic transducer (downstream)
9 Ultrasonic transducer (upstream)
10 Ultrasonic signal path

Multi Sensor Fitting

The Multi Sensor Fitting provides a measuring point for the system and integrates a pressure sensor and a Pt1000 temperature sensor to measure pressure and temperature. Together with the values measured by the Multi Regulating Valve, these signals enable the calculation of differential pressure (ΔP), differential temperature (ΔT), thermal power, and thermal energy. The resulting process values are used for monitoring and for control functions such as differential pressure control, differential temperature control, and thermal power control.

Multi Sensor Fitting

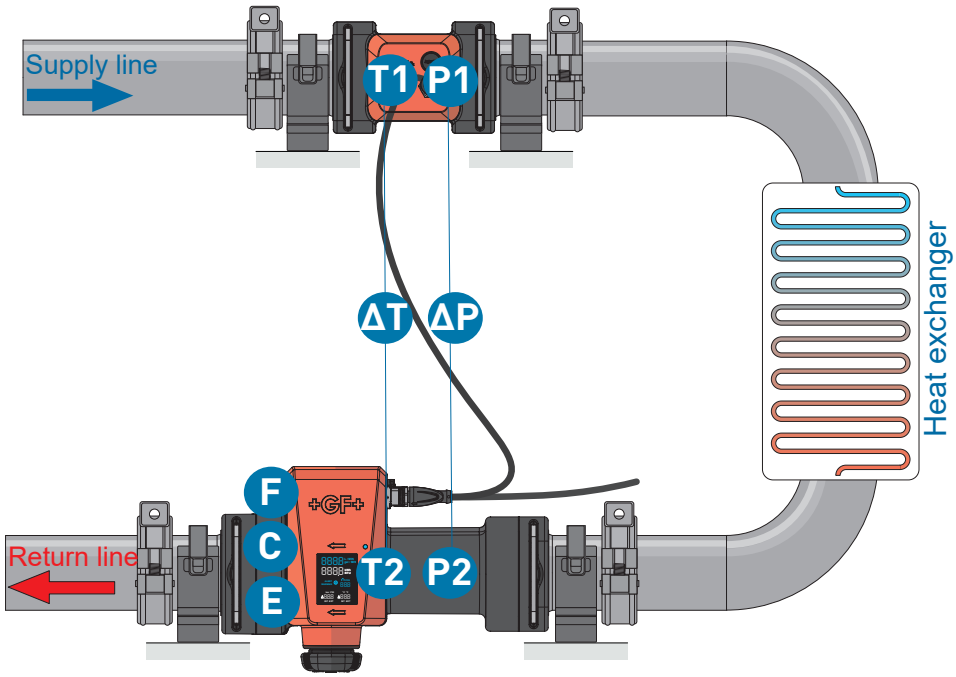


1 Multi Sensor Fitting body
2 Connection Ends
3 Flow direction
4 Connection to Multi Regulating Valve
5 Vent valve
6 Temperature Sensor (Pt1000)
7 Ceramic pressure sensor

Typical Application

The typical application shown illustrates the Multi Control Valve installed in a liquid cooling circuit of a server rack. The Multi Sensor Fitting is installed in the supply line upstream of the heat source and measures the supply pressure (P1) and supply temperature (T1). The Multi Regulating Valve is installed in the return line downstream of the heat exchanger. It measures the return pressure (P2), return temperature (T2), and Flow rate (F), while regulating the flow through the integrated ceramic disc control valve. The wear-resistant ceramic disc technology provides precise, stable flow control with high durability and minimal maintenance.
By combining the measured values from both units, the Multi Control Valve continuously calculates the differential pressure (ΔP), differential temperature (ΔT), and transferred thermal energy (E). These values form the basis for advanced control functions such as flow control, differential pressure control, differential temperature control, thermal power control, and energy monitoring.
The integrated measurement, control, and communication concept reduces the number of required system components, simplifies installation and commissioning, and enables reliable monitoring and efficient operation of the cooling circuit.

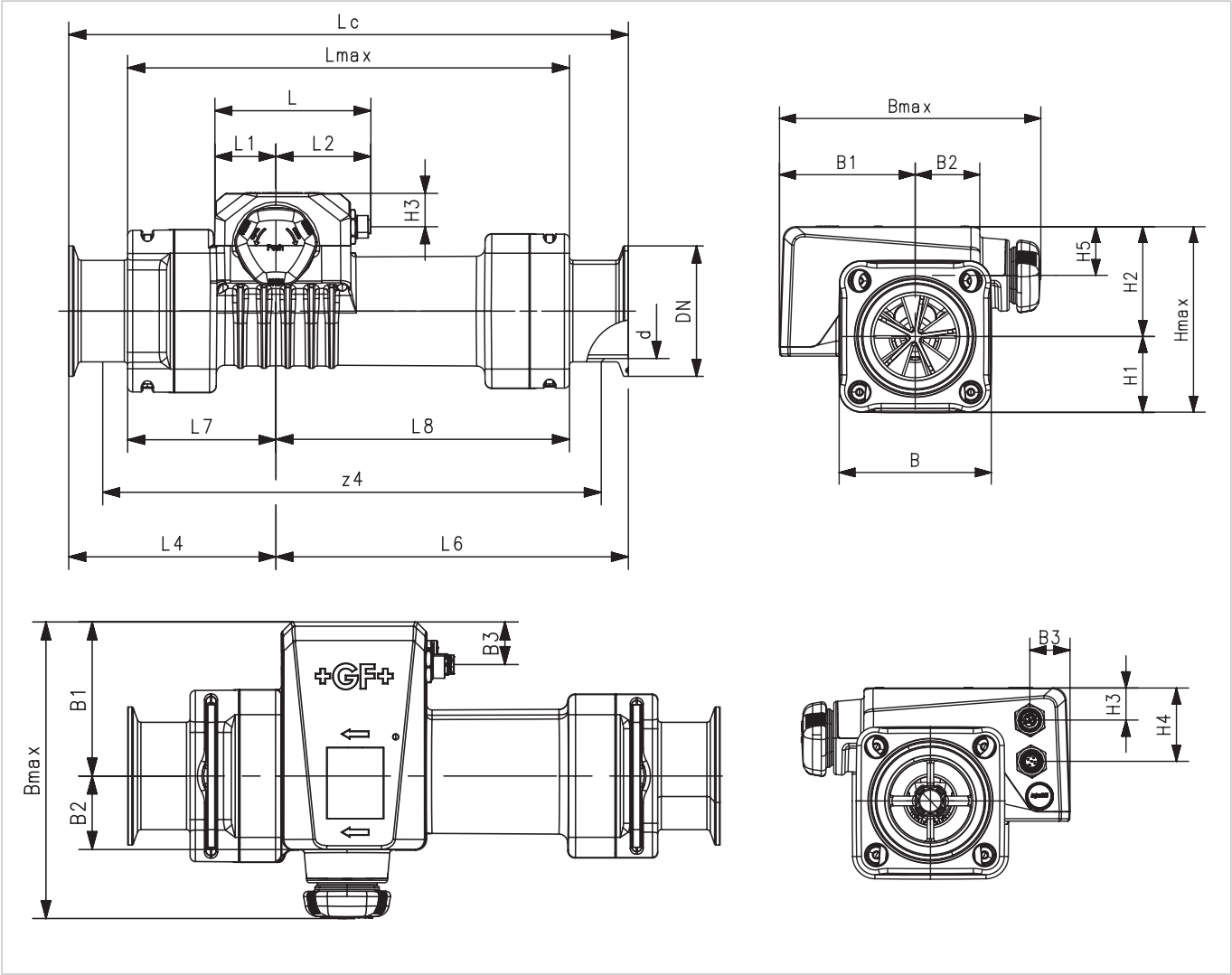
Multi Regulating Valve



T1 Temperature supply line
T2 Temperature return line
ΔT Temperature difference
P1 Pressure supply line
P2 Pressure return line
ΔP Pressure difference
F Flow rate
E Thermal energy
C Valve position

Dimensions - Tri-Clamps

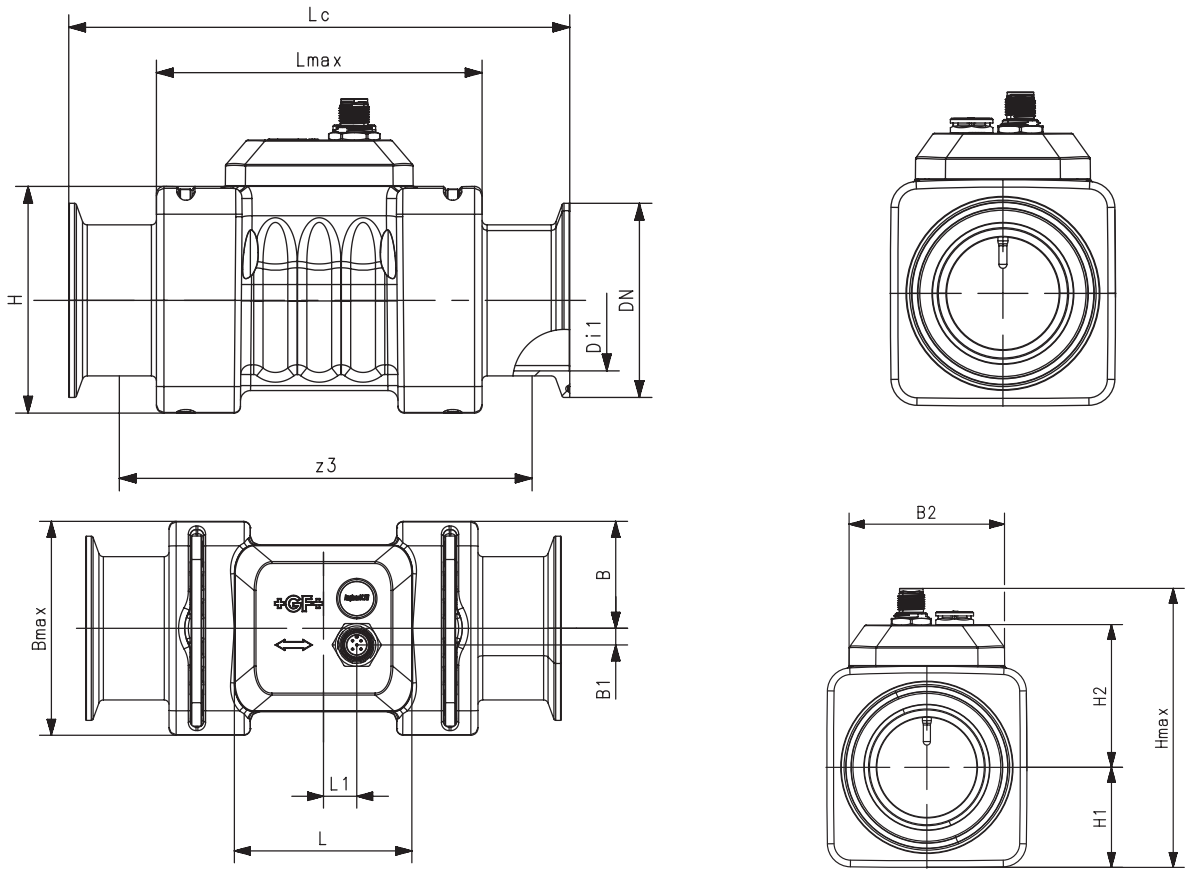
Multi Regulating Valve with Tri-Clamps



DN (mm)	d (mm)	Inch (")	Lmax (mm)	Lc (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z4 (mm)	B (mm)	B1 (mm)	B2 (mm)	B3 (mm)	Bmax (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	Hmax (mm)
25	32	1	185	255	92.9	36.4	56.5	94	161	59	126	216	55	86.5	27.5	22.5	165.5	27.5	63.5	20	46	31	91
25*	32*	1*	262.5	302.3	92.9	36.4	56.5	93.1	209.2	58.1	204.4	293.8	97	86.5	41.5	25	165.5	48.5	70	20	46	31	118.5
50	63	2	262.5	332.2	92.9	36.4	56.5	123	209.2	58.1	204.4	293.2	97	86.5	41.5	25	165.5	48.5	70	20	46	31	118.5

*high cooling capacity

Multi Sensor Fitting with Tri-Clamps

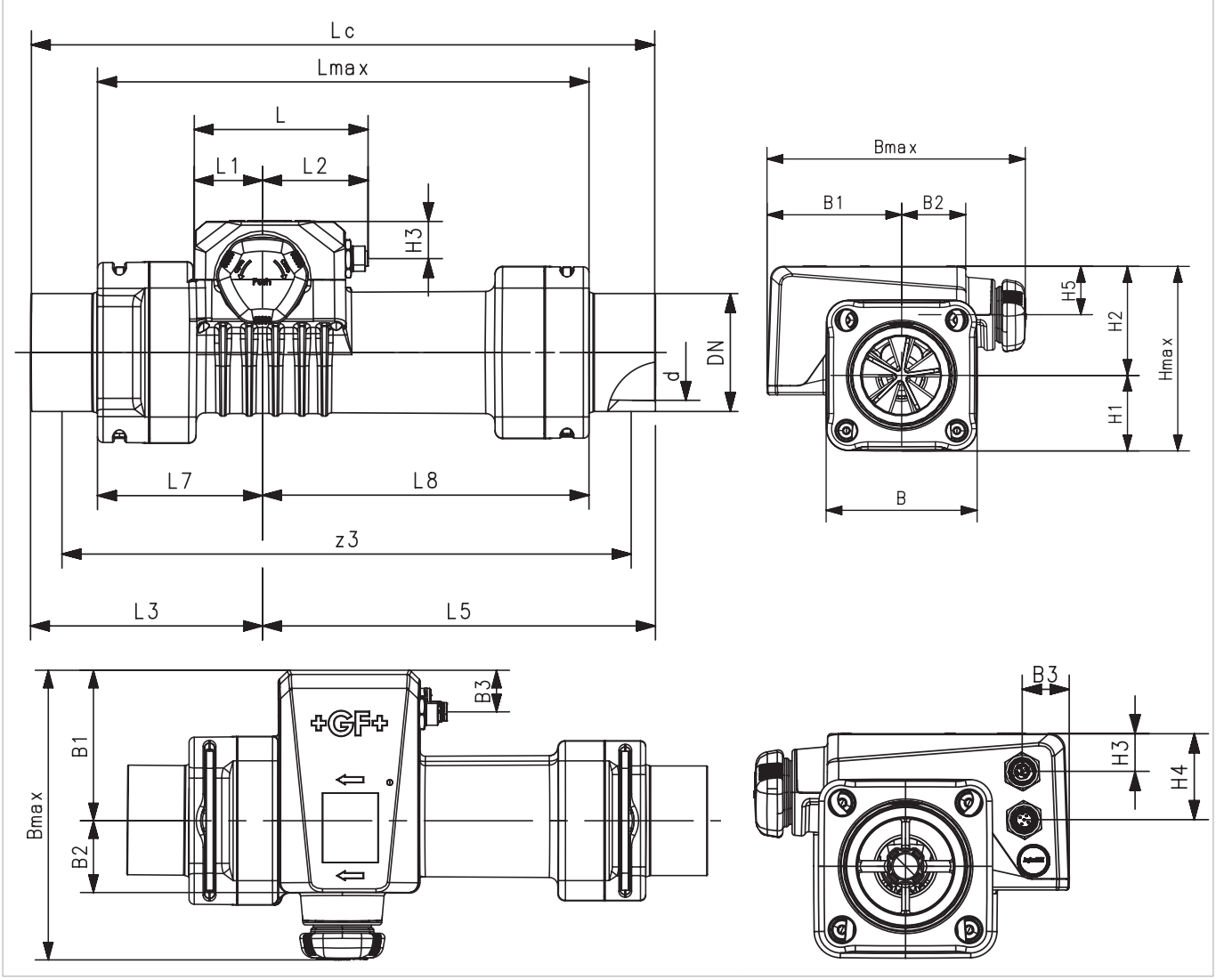


DN (mm)	d (mm)	Inch (")	Di1 (mm)	Lmax (mm)	Lc (mm)	L (mm)	L1 (mm)	z3 (mm)	B (mm)	B1 (mm)	Bmax (mm)	H (mm)	H1 (mm)	H2 (mm)	Hmax (mm)
25	32	1	29.7	110	180	75	14	139	27.5	7	60	55	27.5	48	92
25*	32*	1*	29.7	130	200	75	14	160	45	7	90	90.6	45	64	126
50	63	2	56.3	130	200	75	14	160	45	7	90	90.6	45	64	126

*high cooling capacity

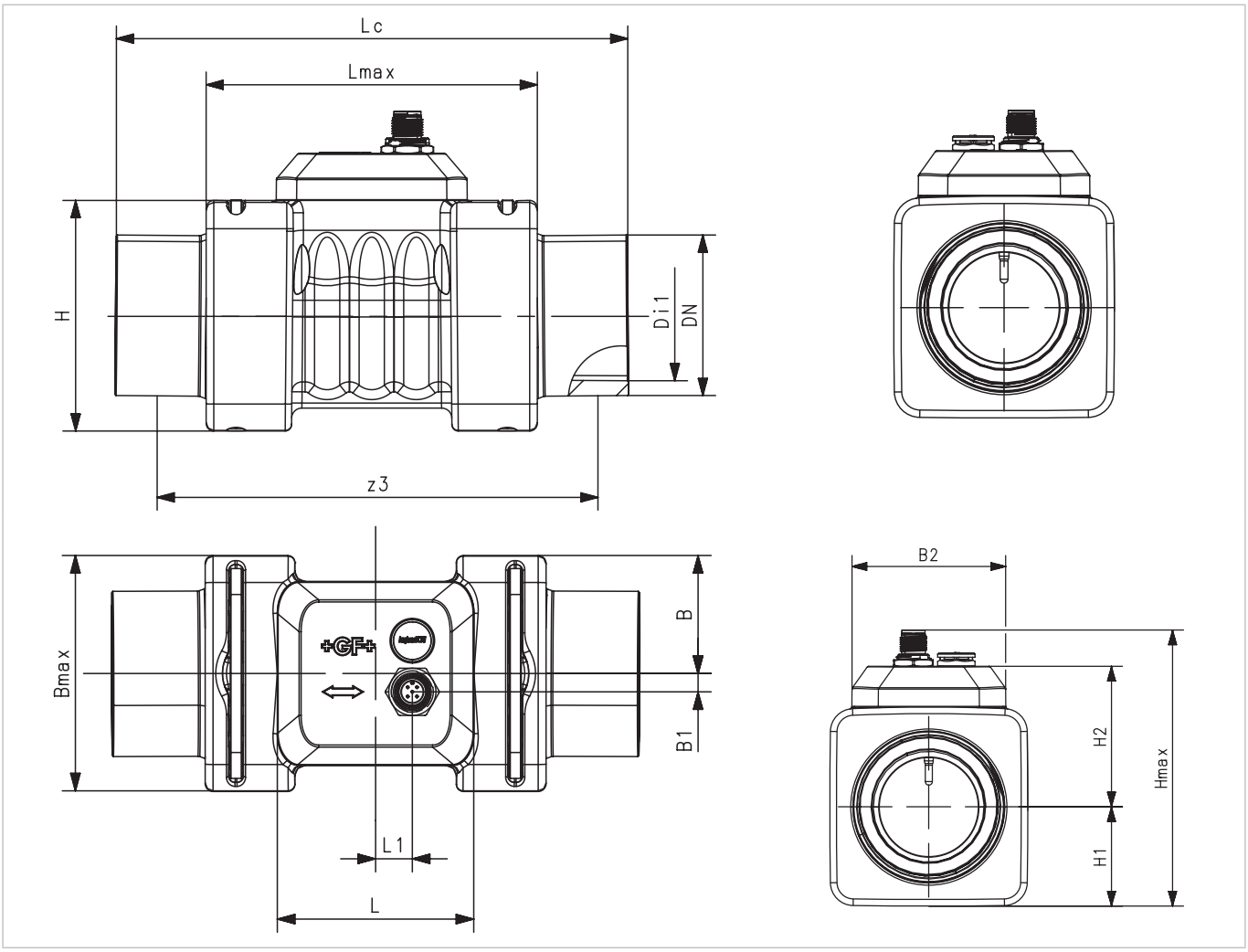
Dimensions - Spigots

Multi Regulating Valve with fusion spigots



DN (mm)	d (mm)	Inch (")	Lmax (mm)	Lc (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L5 (mm)	L7 (mm)	L8 (mm)	z3 (mm)	B (mm)	B1 (mm)	B2 (mm)	B3 (mm)	Bmax (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	Hmax (mm)
25	32	1	185	259	92.9	36.4	56.5	96	163	59	126	225	55	86.5	27.5	22.5	165.5	27.5	63.5	20	46	31	91
50	63	2	262.5	333.2	92.9	36.4	56.5	123.3	209.9	58.1	204.4	298.2	97	86.5	41.5	25	165.5	48.5	70	20	46	31	118.5

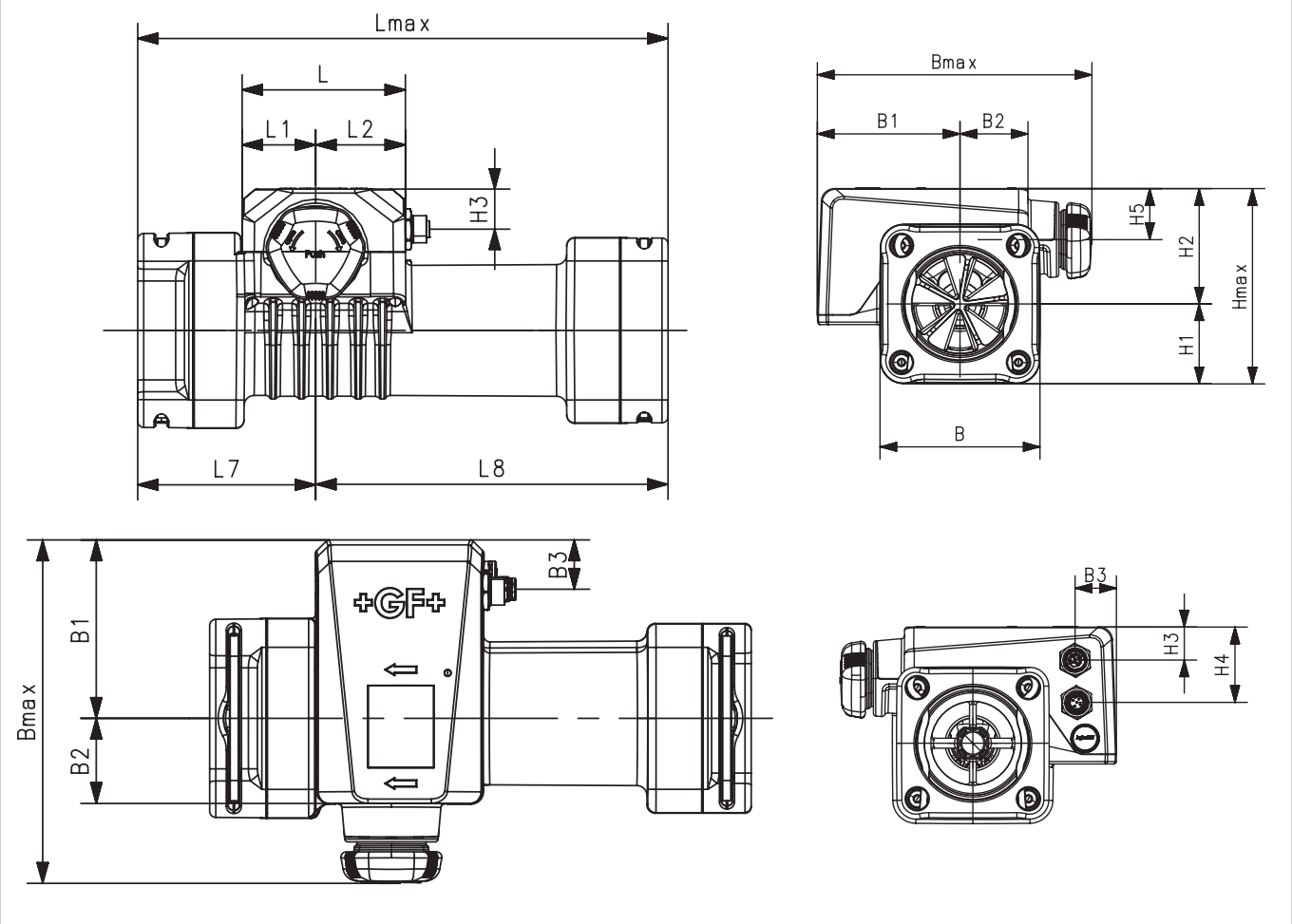
Multi Sensor Fitting with fusion spigots



DN (mm)	d (mm)	Inch (")	Di1 (mm)	Lmax (mm)	Lc (mm)	L (mm)	L1 (mm)	z (mm)	z3 (mm)	B (mm)	B1 (mm)	Bmax (mm)	H (mm)	H1 (mm)	H2 (mm)	Hmax (mm)
25	32	1	26.2	110	184	75	14	x	150	27.5	7	60	55	27.5	48	92
50	63	2	51.4	130	200	75	14	x	170	45	7	90	90.6	45	64	126

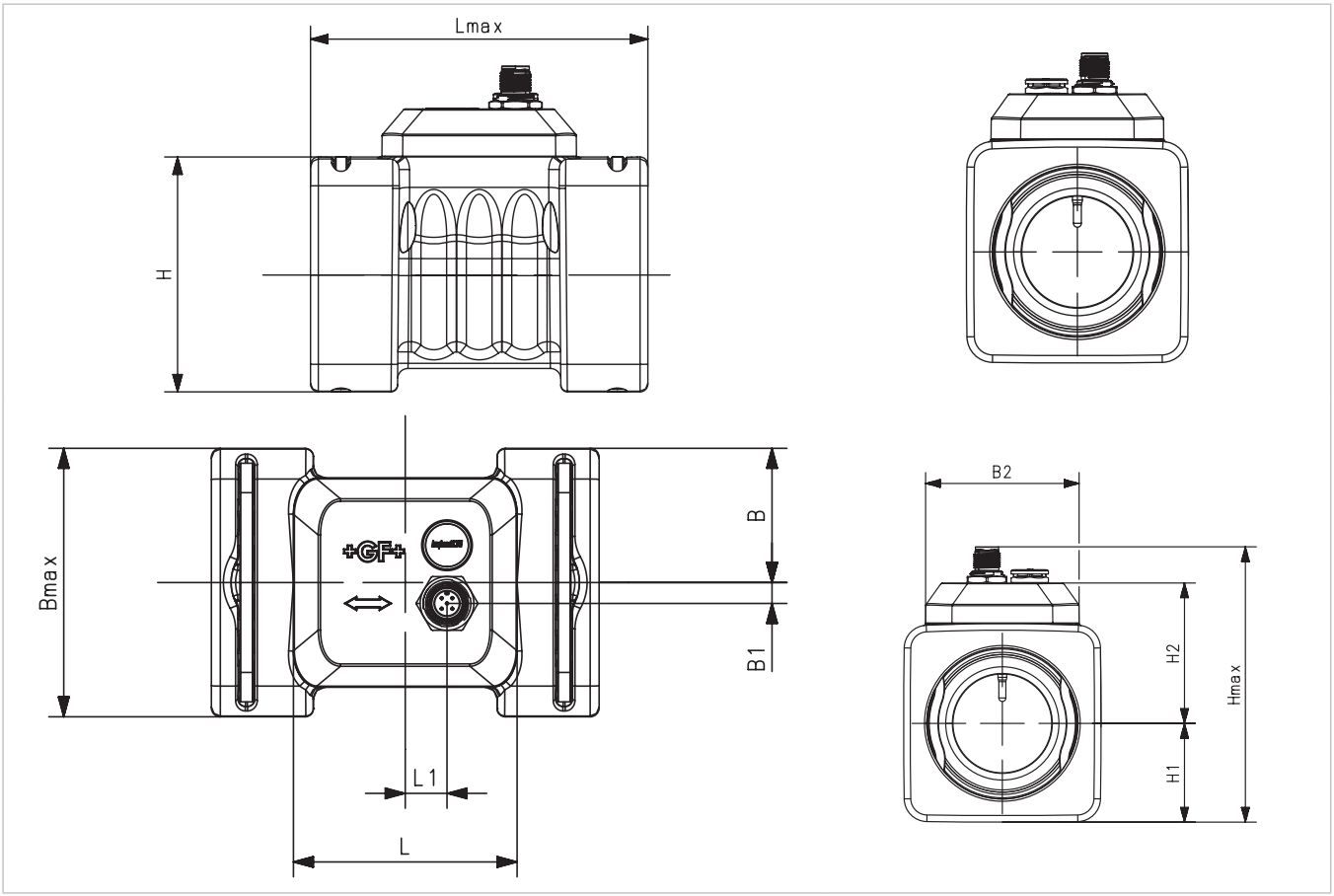
Dimensions - Without Connection Ends

Multi Regulating Valve without Connection Ends



DN (mm)	d (mm)	Inch (")	L (mm)	L1 (mm)	L2 (mm)	Lmax (mm)	z1 (mm)	z2 (mm)	B (mm)	B1 (mm)	B2 (mm)	B3 (mm)	Bmax (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	Hmax (mm)	M (mm)	Y (mm)
25	32	1	92.9	36.4	56.5	185	38.5	103.5	55	86.5	27.5	22.5	165.5	55	27.5	63.5	20	46	31	91	48.9	15.32
50	63	2	92.9	36.4	56.5	262.5	69.1	155.4	97	86.5	46	25	165.5	97	48.5	70	20	46	31	118.5	48.9	15.32

Multi Sensor Fitting without Connection Ends



DN (mm)	d (mm)	Inch (")	L (mm)	L1 (mm)	Lmax (mm)	z1 (mm)	z2 (mm)	B (mm)	B1 (mm)	B2 (mm)	Bmax (mm)	H (mm)	H1 (mm)	H2 (mm)	Hmax (mm)
25	32	1	75	14	110	42.4	42.4	27.5	7	60	60	55	27.5	48	92
50	63	2	75	14	130	46	46	45	7	70	90	90.6	45	64	126

Ordering Overview

Type key

Additional possible configurations are listed below. For variants, combinations, and orders, please contact the local GF sales company.

Example Part Number
MCV5-3P0501T2T3T4TRTDI12WFWM

	Family	Dimension	Body material	Connection size	Connection side A fitting	Connection side B fitting	Connection side A Valve	Connection side B Valve	Communication / output	Display	Electrical connection	Safety function (Valve)	Certification
	MCV5 -	3	P	050	1T	2T	3T	4T	RT	DI	12	WF	WM
Family													
Multi Control Valve DN25	**MCV2**												
Multi Control Valve DN50	**MCV5**												
Multi Regulating Valve DN25	**MRV2**												
Multi Regulating Valve DN50	**MRV5**												
Multi Sensor Fitting DN25	**MSF2**												
Multi Sensor Fitting DN50	**MSF5**												
Dimension													
8 (Valve DN25)		**1**											
24 (Valve Hyperscaler DN25 (DN50 Body))		**2**											
36 (Valve DN50)		**3**											
40 (Fitting DN25)		**4**											
51 (Valve Hyperscale DN50)		**5**											
113 (Fitting DN50)		**6**											
Body material													
PPS			**P**										
Connection size													
without				**000**									
DN15/ d20 / ½"				**015**									
DN20 / d25 / ¾"				**020**									
DN25 / d32 / 1"				**025**									
DN25 / d32 / 1" (reducer DN50>DN25)				**R50**									
DN32 / d40 / 1 ¼"				**032**									
DN40 / d50 / 1 ½"				**040**									
DN50 / d63 / 2"				**050**									
End connection side A fitting													
End connection side B fitting													
End connection side A Valve													
End connection side B Valve													
Without					**1W**	**2W**	**3W**	**4W**					
SS Sanitary Clamp (Tri Clamp)					**1T**	**2T**	**3T**	**4T**					
PP-H Welding Spigots					**1H**	**2H**	**3H**	**4H**					
Communication / output													
Modbus RTU / IO-Link /BACnet									**RT**				
BACnet / Modbus RTU /IO-Link									**BA**				
IO-Link / Modbus RTU / BACnet									**IO**				
Display													
With										**DI**			
Without										**ND**			
Electrical connection													
M12 5 Pin											**12**		
Safety function (Valve)													
Fail-safe open/close												**OC**	
Without Fail-safe function												**WF**	
Certification													
MID Certified													**MI**
Without MID certification													**WM**

NOTE

Not all combinations shown in this type key are available. Availability depends on the selected product configuration.

Multi Control Valve with Tri-Clamps

Multi Control Valve, Factory preset: Modbus RTU, without Fail-safe, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 208	MCV2-1P0251T2T3T4TRTDI12WFWM
High	50	63	2"	25	32	1"	28'000	199 000 209	MCV5-2PR501T2T3T4TRTDI12WFWM
Standard	50	63	2"	50	63	2"	36'000	199 000 210	MCV5-3P0501T2T3T4TRTDI12WFWM
High	50	63	2"	50	63	2"	51'000	199 000 211	MCV5-5P0501T2T3T4TRTDI12WFWM



Multi Control Valve, Factory preset: Modbus RTU, Fail-safe open/close, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 250	MCV2-1P0251T2T3T4TRTDI12OCWM
High	50	63	2"	25	32	1"	28'000	199 000 252	MCV5-2PR501T2T3T4TRTDI12OCWM
Standard	50	63	2"	50	63	2"	36'000	199 000 256	MCV5-3P0501T2T3T4TRTDI12OCWM
High	50	63	2"	50	63	2"	51'000	199 000 260	MCV5-5P0501T2T3T4TRTDI12OCWM



Multi Control Valve, Factory preset: IO-Link, without Fail-safe, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 229	MCV2-1P0251T2T3T4TIODI12WFWM
High	50	63	2"	25	32	1"	28'000	199 000 230	MCV5-2PR501T2T3T4TIODI12WFWM
Standard	50	63	2"	50	63	2"	36'000	199 000 231	MCV5-3P0501T2T3T4TIODI12WFWM
High	50	63	2"	50	63	2"	51'000	199 000 232	MCV5-5P0501T2T3T4TIODI12WFWM



Multi Control Valve, Factory preset: IO-Link, Fail-safe open/close, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 251	MCV2-1P0251T2T3T4TIODI12OCWM
High	50	63	2"	25	32	1"	28'000	199 000 253	MCV5-2PR501T2T3T4TIODI12OCWM
Standard	50	63	2"	50	63	2"	36'000	199 000 257	MCV5-3P0501T2T3T4TIODI12OCWM
High	50	63	2"	50	63	2"	51'000	199 000 261	MCV5-5P0501T2T3T4TIODI12OCWM



Multi Control Valve with PP-H Spigots

Multi Control Valve, Factory preset: Modbus RTU, without Fail-safe, with PP-H Spigot Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 205	MCV2-1P0251H2H3H4HRTDI12WFWM
Standard	50	63	2"	50	63	2"	36'000	199 000 206	MCV5-3P0501H2H3H4HRTDI12WFWM
High	50	63	2"	50	63	2"	51'000	199 000 207	MCV5-5P0501H2H3H4HRTDI12WFWM



Multi Control Valve, Factory preset: Modbus RTU, Fail-safe open/close, with PP-H Spigot Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 248	MCV2-1P0251H2H3H4HRTDI12OCWM
Standard	50	63	2"	50	63	2"	36'000	199 000 254	MCV5-3P0501H2H3H4HRTDI12OCWM
High	50	63	2"	50	63	2"	51'000	199 000 258	MCV5-5P0501H2H3H4HRTDI12OCWM



Multi Control Valve, Factory preset: IO-Link, without Fail-safe, with PP-H Spigot Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 269	MCV2-1P0251H2H3H4HIODI12WFWM
Standard	50	63	2"	50	63	2"	36'000	199 000 270	MCV5-3P0501H2H3H4HIODI12WFWM
High	50	63	2"	50	63	2"	51'000	199 000 271	MCV5-5P0501H2H3H4HIODI12WFWM



Multi Control Valve, Factory preset: IO-Link, Fail-safe open/close, with PP-H Spigot Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 249	MCV2-1P0251H2H3H4HIODI12OCWM
Standard	50	63	2"	50	63	2"	36'000	199 000 255	MCV5-3P0501H2H3H4HIODI12OCWM
High	50	63	2"	50	63	2"	51'000	199 000 259	MCV5-5P0501H2H3H4HIODI12OCWM



Multi Control Valve without Connection Ends

Multi Control Valve, Factory preset: Modbus RTU, without Fail-safe, without Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 287	MCV2-1P0001W2W3W4WRTDI12WFWM
Standard	50	63	2"	50	63	2"	36'000	199 000 291	MCV5-3P0001W2W3W4WRTDI12WFWM
High	50	63	2"	50	63	2"	51'000	199 000 295	MCV5-5P0001W2W3W4WRTDI12WFWM



Multi Control Valve, Factory preset: Modbus RTU, Fail-safe open/close, without Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 288	MCV2-1P0001W2W3W4WRTDI12OCWM
Standard	50	63	2"	50	63	2"	36'000	199 000 292	MCV5-3P0001W2W3W4WRTDI12OCWM
High	50	63	2"	50	63	2"	51'000	199 000 296	MCV5-5P0001W2W3W4WRTDI12OCWM



Multi Control Valve, Factory preset: IO-Link, without Fail-safe, without Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 289	MCV2-1P0001W2W3W4WIODI12WFWM
Standard	50	63	2"	50	63	2"	36'000	199 000 293	MCV5-3P0001W2W3W4WIODI12WFWM
High	50	63	2"	50	63	2"	51'000	199 000 297	MCV5-5P0001W2W3W4WIODI12WFWM



Multi Control Valve, Factory preset: IO-Link, Fail-safe open/close, without Connection Ends

Multi Regulating Valve body				Connection Ends				Ordering	
Flow class	DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
Standard	25	32	1"	25	32	1"	8'000	199 000 290	MCV2-1P0001W2W3W4WIODI12OCWM
Standard	50	63	2"	50	63	2"	36'000	199 000 294	MCV5-3P0001W2W3W4WIODI12OCWM
High	50	63	2"	50	63	2"	51'000	199 000 298	MCV5-5P0001W2W3W4WIODI12OCWM



Multi Regulating Valve

Multi Regulating Valve, Factory preset: Modbus RTU, without Fail-safe, without Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 200	MRV2-1P0001W2W3W4WRTDI12WFWM
50	63	2"	50	63	2"	36'000	199 000 201	MRV5-3P0001W2W3W4WRTDI12WFWM
50 HC	63	2"	50	63	2"	51'000	199 000 202	MRV5-5P0001W2W3W4WRTDI12WFWM



Multi Regulating Valve, Factory preset: Modbus RTU, Fail-safe open/close, without Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 223	MRV2-1P0001W2W3W4WRTDI12OCWM
50	63	2"	50	63	2"	36'000	199 000 224	MRV5-3P0001W2W3W4WRTDI12OCWM
50 HC	63	2"	50	63	2"	51'000	199 000 225	MRV5-5P0001W2W3W4WRTDI12OCWM



Multi Regulating Valve, Factory preset: IO-Link, without Fail-safe, without Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 272	MRV2-1P0001W2W3W4WIODI12WFWM
50	63	2"	50	63	2"	36'000	199 000 273	MRV5-3P0001W2W3W4WIODI12WFWM
50 HC	63	2"	50	63	2"	51'000	199 000 274	MRV5-5P0001W2W3W4WIODI12WFWM



Multi Regulating Valve, Factory preset: IO-Link, Fail-safe open/close, without Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 226	MRV2-1P0001W2W3W4WIODI12OCWM
50	63	2"	50	63	2"	36'000	199 000 227	MRV5-3P0001W2W3W4WIODI12OCWM
50 HC	63	2"	50	63	2"	51'000	199 000 228	MRV5-5P0001W2W3W4WIODI12OCWM



Multi Regulating Valve, Factory preset: Modbus RTU, without Fail-safe, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 215	MRV2-1P0251W2W3T4TRTDI12WFWM
50 HC	63	2"	25	32	1"	28'000	199 000 216	MRV5-2PR501W2W3T4TRTDI12WFWM
50	63	2"	50	63	2"	36'000	199 000 217	MRV5-3P0501W2W3T4TRTDI12WFWM
50 HC	63	2"	50	63	2"	51'000	199 000 218	MRV5-5P0501W2W3T4TRTDI12WFWM



Multi Regulating Valve, Factory preset: Modbus RTU, Fail-safe open/close, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 305	MRV2-1P0251W2W3T4TRTDI12OCWM
50 HC	63	2"	25	32	1"	28'000	199 000 306	MRV5-2PR501W2W3T4TRTDI12OCWM
50	63	2"	50	63	2"	36'000	199 000 307	MRV5-3P0501W2W3T4TRTDI12OCWM
50 HC	63	2"	50	63	2"	51'000	199 000 308	MRV5-5P0501W2W3T4TRTDI12OCWM



Multi Regulating Valve, Factory preset: IO-Link, without Fail-safe, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 309	MRV2-1P0251W2W3T4TIODI12WFWM
50 HC	63	2"	25	32	1"	28'000	199 000 310	MRV5-2PR501W2W3T4TIODI12WFWM
50	63	2"	50	63	2"	36'000	199 000 311	MRV5-3P0501W2W3T4TIODI12WFWM
50 HC	63	2"	50	63	2"	51'000	199 000 312	MRV5-5P0501W2W3T4TIODI12WFWM



Multi Regulating Valve, Factory preset: IO-Link, Fail-safe open/close, with Stainless Steel Tri-Clamp Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 263	MRV2-1P0251W2W3T4TIODI12OCWM
50 HC	63	2"	25	32	1"	28'000	199 000 264	MRV5-2PR501W2W3T4TIODI12OCWM
50	63	2"	50	63	2"	36'000	199 000 266	MRV5-3P0501W2W3T4TIODI12OCWM
50 HC	63	2"	50	63	2"	51'000	199 000 268	MRV5-5P0501W2W3T4TIODI12OCWM



Multi Regulating Valve, Factory preset: Modbus RTU, without Fail-safe, with PP-H Spigot Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 212	MRV2-1P0251W2W3H4HRTDI12WFWM
50	63	2"	50	63	2"	36'000	199 000 213	MRV5-3P0501W2W3H4HRTDI12WFWM
50	63	2"	50	63	2"	51'000	199 000 214	MRV5-5P0501W2W3H4HRTDI12WFWM



Multi Regulating Valve, Factory preset: Modbus RTU, Fail-safe open/close, with PP-H Spigot Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 299	MRV2-1P0251W2W3H4HRTDI12OCWM
50	63	2"	50	63	2"	36'000	199 000 300	MRV5-3P0501W2W3H4HRTDI12OCWM
50	63	2"	50	63	2"	51'000	199 000 301	MRV5-5P0501W2W3H4HRTDI12OCWM



Multi Regulating Valve, Factory preset: IO-Link, without Fail-safe, with PP-H Spigot Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 302	MRV2-1P0251W2W3H4HIODI12WFWM
50	63	2"	50	63	2"	36'000	199 000 303	MRV5-3P0501W2W3H4HIODI12WFWM
50	63	2"	50	63	2"	51'000	199 000 304	MRV5-5P0501W2W3H4HIODI12WFWM



Multi Regulating Valve, Factory preset: IO-Link, Fail-safe open/close, with PP-H Spigot Connection Ends

Multi Regulating Valve body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	8'000	199 000 262	MRV2-1P0251W2W3H4HIODI12OCWM
50	63	2"	50	63	2"	36'000	199 000 265	MRV5-3P0501W2W3H4HIODI12OCWM
50	63	2"	50	63	2"	51'000	199 000 267	MRV5-5P0501W2W3H4HIODI12OCWM



Multi Sensor Fitting

Multi Sensor Fitting, Factory preset: Modbus RTU, without Connection Ends

Multi Sensor Fitting body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	40'000	199 000 203	MSF2-4P0001W2W3W4WRTND12WFWM
50	63	2"	50	63	2"	113'000	199 000 204	MSF5-6P0001W2W3W4WRTND12WFWM



Multi Sensor Fitting, Factory preset: IO-Link, without Connection Ends

Multi Sensor Fitting body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	40'000	199 000 279	MSF2-4P0001W2W3W4WIOWD12WFWM
50	63	2"	50	63	2"	113'000	199 000 280	MSF5-6P0001W2W3W4WIOWD12WFWM



Multi Sensor Fitting, Factory preset: Modbus RTU, with Stainless Steel Tri-Clamp Connection Ends

Multi Sensor Fitting body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	40'000	199 000 221	MSF2-4P0251T2T3W4WRTWD12WFWM
50	63	2"	50	63	2"	113'000	199 000 281	MSF5-6PR501T2T3W4WRTWD12WFWM
50	63	2"	50	63	2"	113'000	199 000 222	MSF5-6P0501T2T3W4WRTWD12WFWM



Multi Sensor Fitting, Factory preset: IO-Link, with Stainless Steel Tri-Clamp Connection Ends

Multi Sensor Fitting body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	40'000	199 000 277	MSF2-4P0251T2T3W4WIOWD12WFWM
50	63	2"	50	63	2"	113'000	199 000 282	MSF5-6PR501T2T3W4WIOWD12WFWM
50	63	2"	50	63	2"	113'000	199 000 278	MSF5-6PR501T2T3W4WIOWD12WFWM



Multi Sensor Fitting, Factory preset: Modbus RTU, with PP-H Spigot Connection Ends

Multi Sensor Fitting body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	40'000	199 000 219	MSF2-4P0251H2H3W4WRTWD12WFWM
50	63	2"	50	63	2"	113'000	199 000 220	MSF5-6P0501H2H3W4WRTWD12WFWM



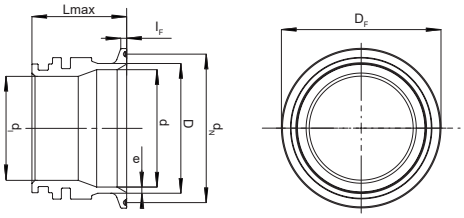
Multi Sensor Fitting, Factory preset: IO-Link, with PP-H Spigot Connection Ends

Multi Sensor Fitting body			Connection Ends				Ordering	
DN (mm)	d (mm)	Size (inch)	DN (mm)	d (mm)	Size (inch)	Flow Rate (l/h)	Ordering Code	Material Name
25	32	1"	25	32	1"	40'000	199 000 275	MSF2-4P0251H2H3W4WIOWD12WFWM
50	63	2"	50	63	2"	113'000	199 000 276	MSF5-6P0501H2H3W4WIOWD12WFWM



Spare parts

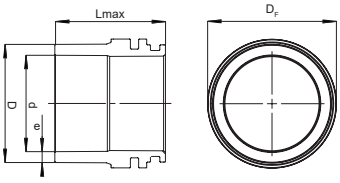
Tri-Clamps



For valve/fitting body			Dimensions										Ordering
DN (mm)	d (mm)	Size (inch)	DN (mm)	Size (inch)	d (mm)	d_1 (mm)	d_N (mm)	D (mm)	e (mm)	D_F (mm)	l_F (mm)	Lmax (mm)	Ordering Code
25	32	1“	15	½“	18.1		43.5	21.3	1.6	50.5	2.85		199 000 239
25	32	1“	20	¾“	23.7		43.5	26.9	1.6	50.5	2.85		199 000 240
25	32	1“	25	1“	29.7	27.2	43.5	33.7	2.0	50.5	2.85	55.7	199 000 241
50	63	2“	32	1 ¼“	38.4		56.5	42.4	2.0	64.0	2.85		199 000 243
50	63	2“	40	1 ½“	44.3		56.5	48.3	2.0	64.0	2.85		199 000 244
50	63	2“	50	2“	56.3	50.5	72.1	60.3	2.0	77.5	2.85	64.0	199 000 245
50	63	2“	25	1“	29.7	50.5	43.5	33.7	2.0	50.5	2.85	64.0	199 000 242



PP-H Fusion Spigots



For valve/fitting body			Dimensions								Ordering
DN (mm)	d (mm)	Size (inch)	DN (mm)	Size (inch)	d (mm)	d_1 (mm)	D (mm)	e (mm)	D_F (mm)	Lmax (mm)	Ordering Code
25	32	1“	15	½“	16.2		20	1.9			199 000 233
25	32	1“	20	¾“	20.4		25	2.3			199 000 234
25	32	1“	25	1“	26.2	27.2	32	2.9	41.9	57.7	199 000 235
50	63	2“	32	1 ¼“	32.6		40	3.7			199 000 236
50	63	2“	40	1 ½“	40.8		50	4.6			199 000 237
50	63	2“	50	2“	51.4	50.5	63	5.8	68.7	64.5	199 000 238



Safety Clip for Connection Element

For valve/fitting body			Ordering
DN (mm)	d (mm)	Size (inch)	Ordering Code
25	32	1“	199 000 285
50	63	2“	199 000 285



O-Ring for end connections

For valve/fitting body			Ordering
DN (mm)	d (mm)	Size (inch)	Ordering Code
25	32	1“	199 000 283
50	63	2“	199 000 284



Connection Cable, M12-M12, 5-Pins, PUR for Multi Regulating Valve to Multi Sensor Fitting

Code	Designation	Description	Length
199 000 087	CAB-M12AP5-M12S-1M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	1 m
199 000 088	CAB-M12AP5-M12S-2M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	2 m
199 000 089	CAB-M12AP5-M12S-10M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	10 m
199 000 090	CAB-M12AP5-M12S-20M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	20 m

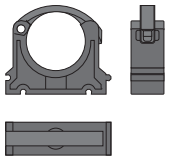


Accessories

KLIP-it Pipe Clamps

- Material: clip and safety clip made of black PP or PE, UV-resistant
- d16 - d63: height designed for ball valves types 546 Pro and 543 Pro
- Standard package10 pcs.

For valve/fitting body			PP Ordering	PE Ordering
DN (mm)	d (mm)	Size (inch)	Code	Ordering Code
25	32	1"	167 061 037	173 061 007
50	63	2"	167 061 040	173 061 010



Connection Cable, M12-M12, 5-Pins, PUR

Code	Designation	Description	Length
199 000 087	CAB-M12AP5-M12S-1M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	1 m
199 000 088	CAB-M12AP5-M12S-2M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	2 m
199 000 089	CAB-M12AP5-M12S-10M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	10 m
199 000 090	CAB-M12AP5-M12S-20M0PUR	Connection Cable, M12-M12, 5-Pins, PUR	20 m



Cable Connector, M12-Open End, 5-Pins, PUR

Code	Designation	Description	Length
199 000 050	CAB-M12LS5-OE-2M0PUR	Cable Connector, M12-Open End, 5-Pins, PUR	2 m
199 000 051	CAB-M12LS5-OE-3M0PUR	Cable Connector, M12-Open End, 5-Pins, PUR	3 m
199 000 052	CAB-M12LS5-OE-5M0PUR	Cable Connector, M12-Open End, 5-Pins, PUR	5 m
199 000 053	CAB-M12LS5-OE-10M0PUR	Cable Connector, M12-Open End, 5-Pins, PUR	10 m
199 000 054	CAB-M12LS5-OE-15M0PUR	Cable Connector, M12-Open End, 5-Pins, PUR	15 m



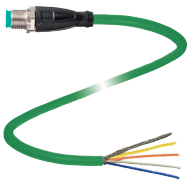
Ethernet Connection Cable, M12-M12, 4 Pins, PUR

Code	Designation	Description	Length
199 000 059	CAB-M12DP4-M12P-1.5MSPUR	Ethernet Connection Cable, M12-M12, 4 Pins, PUR	1,5 m
199 000 060	CAB-M12DP4-M12P-3MSPUR	Ethernet Connection Cable, M12-M12, 4 Pins, PUR	3 m
199 000 061	CAB-M12DP4-M12P-5MSPUR	Ethernet Connection Cable, M12-M12, 4 Pins, PUR	5 m
199 000 062	CAB-M12DP4-M12P-10MSPUR	Ethernet Connection Cable, M12-M12, 4 Pins, PUR	10 m
199 000 063	CAB-M12DP4-M12P-15MSPUR	Ethernet Connection Cable, M12-M12, 4 Pins, PUR	15 m
199 000 064	CAB-M12DP4-M12P-20MSPUR	Ethernet Connection Cable, M12-M12, 4 Pins, PUR	20 m



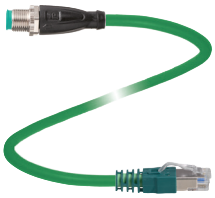
Ethernet Connection Cable, M12-Open End, 4 Pins, PUR

Code	Designation	Description	Length
199 000 065	CAB-M12DP4-OE-1MSPUR	Ethernet Connection Cable, M12-Open End, 4 Pins, PUR	1 m
199 000 066	CAB-M12DP4-OE-2MSPUR	Ethernet Connection Cable, M12-Open End, 4 Pins, PUR	2 m
199 000 067	CAB-M12DP4-OE-5MSPUR	Ethernet Connection Cable, M12-Open End, 4 Pins, PUR	5 m
199 000 068	CAB-M12DP4-OE-10MSPUR	Ethernet Connection Cable, M12-Open End, 4 Pins, PUR	10 m
199 000 069	CAB-M12DP4-OE-15MSPUR	Ethernet Connection Cable, M12-Open End, 4 Pins, PUR	15 m
199 000 070	CAB-M12DP4-OE-20MSPUR	Ethernet Connection Cable, M12-Open End, 4 Pins, PUR	20 m



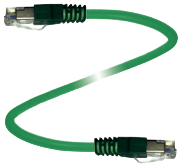
Ethernet Connection Cable, M12-RJ45, 4 Pins, PUR

Code	Designation	Description	Length
199 000 071	CAB-M12DP4-RJ45P-1MSPUR	Ethernet Connection Cable, M12-RJ45, 4 Pins, PUR	1 m
199 000 072	CAB-M12DP4-RJ45P-2MSPUR	Ethernet Connection Cable, M12-RJ45, 4 Pins, PUR	2 m
199 000 073	CAB-M12DP4-RJ45P-5MSPUR	Ethernet Connection Cable, M12-RJ45, 4 Pins, PUR	5 m
199 000 074	CAB-M12DP4-RJ45P-10MSPUR	Ethernet Connection Cable, M12-RJ45, 4 Pins, PUR	10 m
199 000 075	CAB-M12DP4-RJ45P-15MSPUR	Ethernet Connection Cable, M12-RJ45, 4 Pins, PUR	15 m
199 000 076	CAB-M12DP4-RJ45P-20MSPUR	Ethernet Connection Cable, M12-RJ45, 4 Pins, PUR	20 m



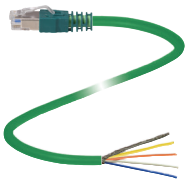
Ethernet Connection Cable, RJ45-RJ45, 8 Pins, PUR

Code	Designation	Description	Length
199 000 081	CAB-RJ45P8-RJ45P-1MSPUR	Ethernet Connection Cable, RJ45-RJ45, 8 Pins, PUR	1 m
199 000 082	CAB-RJ45P8-RJ45P-3MSPUR	Ethernet Connection Cable, RJ45-RJ45, 8 Pins, PUR	3 m
199 000 083	CAB-RJ45P8-RJ45P-5MSPUR	Ethernet Connection Cable, RJ45-RJ45, 8 Pins, PUR	5 m
199 000 084	CAB-RJ45P8-RJ45P-10MSPUR	Ethernet Connection Cable, RJ45-RJ45, 8 Pins, PUR	10 m



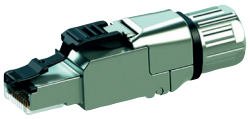
Ethernet Connection Cable, RJ45-Open End, 8 Pins, PUR

Code	Designation	Description	Length
199 000 077	CAB-RJ45P8-OE-1MSPUR	Ethernet Connection Cable, RJ45-Open End, 8 Pins, PUR	1 m
199 000 078	CAB-RJ45P8-OE-3MSPUR	Ethernet Connection Cable, RJ45-Open End, 8 Pins, PUR	3 m
199 000 079	CAB-RJ45P8-OE-5MSPUR	Ethernet Connection Cable, RJ45-Open End, 8 Pins, PUR	5 m
199 000 080	CAB-RJ45P8-OE-10MSPUR	Ethernet Connection Cable, RJ45-Open End, 8 Pins, PUR	10 m



Male connector RJ45 straight 8-pin

Code	Designation	Description
199 000 091	CON-RJ45P8-ZN	Male connector RJ45 straight 8-pin



IO-Link Master with Fieldbus

Code	Designation	Description
199 000 002	IOM-A4B4-PN-PA66	PROFINET and Modbus TCP IO-Link master with 4 x IO-Link Class A and 4 x IO-Link Class B ports
199 000 003	IOM-A4B4-EIP-PA66	EtherNet/IP and Modbus TCP IO-Link master with 4 x IO-Link Class A and 4 x IO-Link Class B ports



IO-Link Master with USB

Code	Designation	Description
199 000 008	IOM-M12A5-USB	IO-Link master, powered via USB port or separate power supply, indicator LEDs, M12 plug for sensor connection



For further information on accessories, refer to the online product catalog at www.gfps.com

Mobile apps and online tools to support configuration and calculation at
www.gfps.com/tools