



Direct-acting 2/2-way solenoid valve

- Block screwed coil system
- Up to DN 12
- Brass or stainless steel valve body
- Wide range of applications



Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with



Type 2518

Cable plug,
form A according to
DIN EN 175301-803



Type 1087

Timer,
form A according to
DIN EN 175301-803

Type description

This direct-acting plunger solenoid valve Type 0256 can be used in many ways. It is delivered with brass or stainless steel bodies for a wide range of orifices and connections.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 5.
Material	
Seal	NBR, FKM (others on request)
Body	Brass, stainless steel 1.4581
Coil	Epoxy
Orifice	DN 2.0...DN 12.0
Circuit function	A Further information can be found in chapter "2. Circuit functions" on page 3.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	100 % continuous rating
Switching time¹⁾	
AC	Opening: 10...20 ms Closing: 20...30 ms
DC	Opening: 20...80 ms Closing: 20...30 ms
Electrical data	
Operating voltage	24 V DC, 24 V 50 Hz, 110 V 50 Hz, 230 V 50 Hz (further voltages on request)
Voltage tolerance	± 10 %
Medium data	
Operating medium	
With NBR	Neutral media, compressed air, water, oil
With FKM	Hot air, hot oils, oils with additives
All materials	Technical vacuum
Medium temperature	
With NBR (EPDM on request)	- 10 °C...+ 80 °C
With FKM	- 10 °C...+ 130 °C
Viscosity	Max. 21 mm ² /s (21 cSt)
Product connections	
Electrical connection	Plug contacts according to DIN EN 175 301 - 803 form A for cable plug Type 2518 ▶ Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 10 (supplied as standard).
Port connection	G ¼, G ⅜, G ½, NPT on request
Approvals and conformities	
Degree of protection	IP65 with cable plug
North America (USA/Canada)	Further information can be found in chapter "3.4. North America (USA/Canada)" on page 4.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. + 55 °C

1.) Measurement at + 20 °C, 6 bar at the valve inlet and free outlet, opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %

2. Circuit functions

Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid valve Direct-acting Normally closed

3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

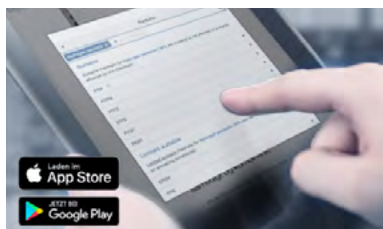
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. North America (USA/Canada)

Approval	Description
	Optional: UL Recognized for the USA and Canada The coils are UL Recognized for the USA and Canada according to: • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139

4. Materials

4.1. Bürkert resistApp

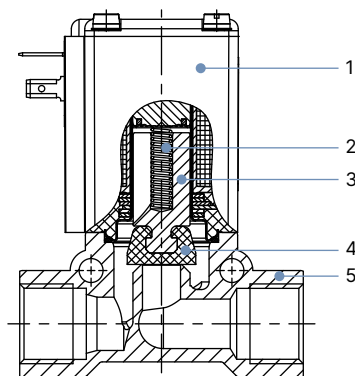


Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

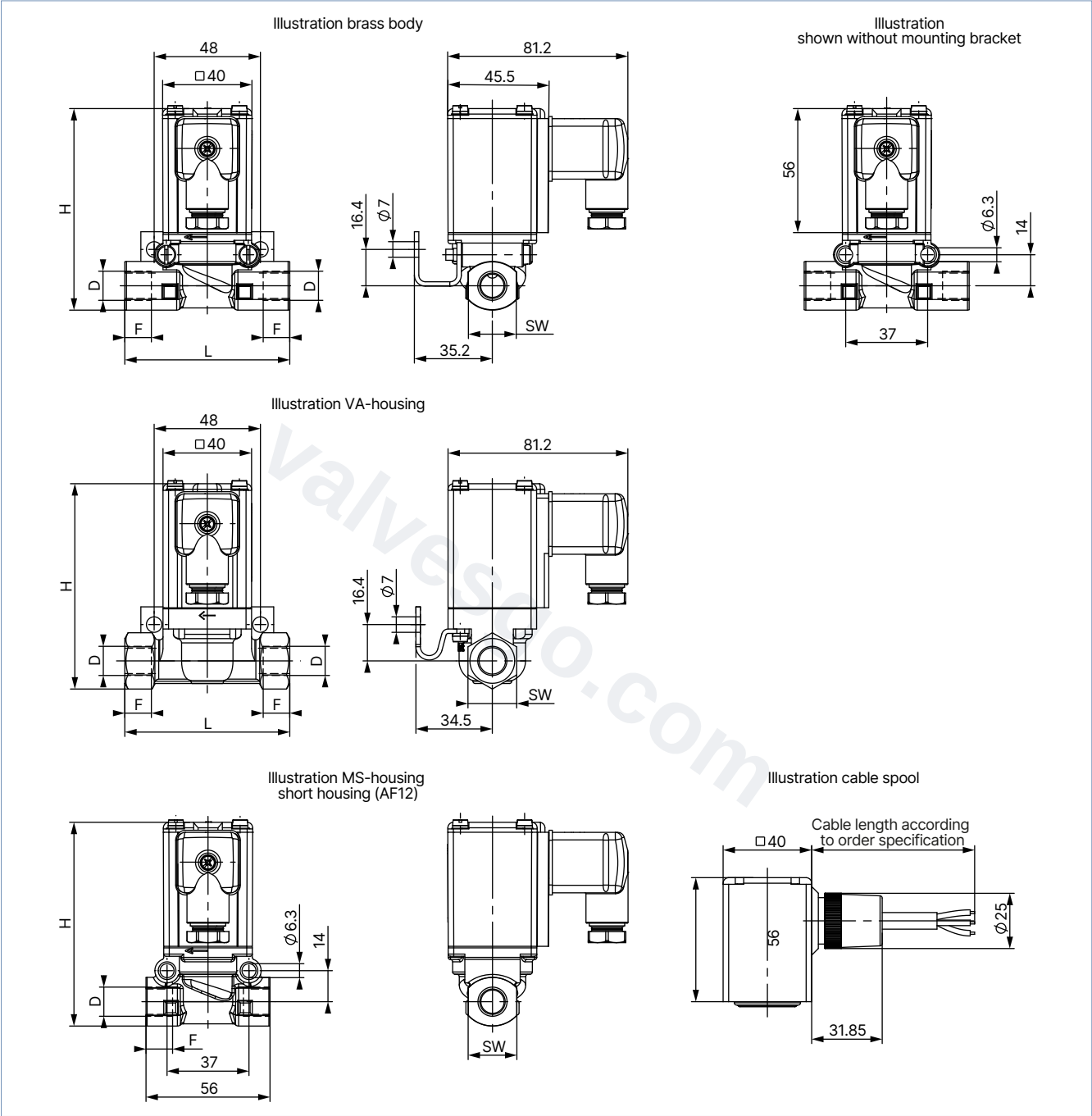
4.2. Material specifications



No.	Element	Material
1	Coil	Epoxy
2	Spring	Stainless steel 1.4310
3	Core	Stainless steel 1.4105
4	Seal	NBR/FKM (EPDM on request)
5	Body	Brass, stainless steel 1.4581

5. Dimensions

Note:
Dimensions in mm



Body material	D	F [mm]	H [mm]	L [mm]	SW [mm]
Brass	G ¼	12	91	74.5	22
Brass	G ⅜	12	91	74.5	22
Brass	G ½	14	94	74.5	27
Stainless steel	G ¼	12	92	74.5	22
Stainless steel	G ½	14	95.6	74.5	27
Brass	G ¼	12	92	56	22
Brass	G ⅜	12	92	56	22

6. Ordering information

6.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

6.2. Bürkert product filter

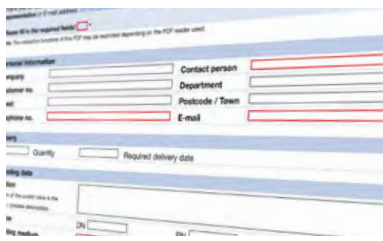


Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

6.3. Bürkert Product Enquiry Form



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

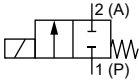
[Fill out the form now](#)

6.4. Ordering chart

Brass body AF12 - 56 mm

Note:

- A cable plug is included in the delivery.
- The mounting bracket is included in the delivery for variants with VAR KC74.
- The mounting bracket can be ordered separately (see "6.5. Ordering chart accessories" on page 10).

Circuit function	Port connection	Orifice	K _v value water ¹⁾	Pressure range ²⁾			Article no. per voltage/frequency			
				Liquids and gases	Liquids	Gases				
		[mm]	[m ³ /h]	DC	AC		024/DC	024/50	110/50	230/50
				[bar]	[bar]	[bar]	[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Seal material NBR									
	G 1/4	3	0.25	0...10	0...22	0...22	145725 ☒	045819 ☒	–	145803 ☒
		4	0.5	0...6	0...12	0...16	145727 ☒	145728 ☒	145730 ☒	145731 ☒
		5	0.65	0...2.5	0...6	0...12	145747 ☒	145748 ☒	145749 ☒	145750 ☒
		6	0.8	0...2	0...4	0...8	145759 ☒	145761 ☒	–	145764 ☒
	G 3/8	3	0.25	0...10	0...22	0...22	–	–	–	–
		4	0.5	0...6	0...12	0...16	145733 ☒	145734 ☒	145735 ☒	145736 ☒
		5	0.65	0...2.5	0...6	0...12	145752 ☒	145753 ☒	–	145755 ☒
		6	0.8	0...2	0...4	0...8	145766 ☒	145767 ☒	145768 ☒	145769 ☒
		8	0.9	0...0.5	0...1.5	0...2.5	145778 ☒	145779 ☒	145780 ☒	145781 ☒
	Seal material FKM									
	G 1/4	3	0.25	0...10	0...22	0...22	047627 ☒	–	–	–
		4	0.5	0...6	0...12	0...16	044092 ☒	041014 ☒	–	056970 ☒
		5	0.65	0...2.5	0...6	0...12	066997 ☒	–	–	041694 ☒
		6	0.8	0...2	0...4	0...8	052431 ☒	145774 ☒	–	057189 ☒
	G 3/8	3	0.25	0...10	0...22	0...22	151023 ☒	–	–	056772 ☒
		4	0.5	0...6	0...12	0...16	145739 ☒	–	–	145740 ☒
		5	0.65	0...2.5	0...6	0...12	054157 ☒	042514 ☒	–	040942 ☒
		6	0.8	0...2	0...4	0...8	056636 ☒	145775 ☒	045873 ☒	056544 ☒
		8	0.9	0...0.5	0...1.5	0...2.5	043389 ☒	–	–	145783 ☒

– = not available

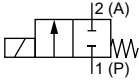
1.) Measurement at + 20 °C, 1 bar at the valve inlet and free outlet

2.) Overpressure to atmospheric pressure (the pressure rates for liquids are specified on the type plate)

Brass body 74 mm

Note:

- A cable plug is included in the delivery.
- The mounting bracket is included in the delivery for variants with VAR KC74.
- The mounting bracket can be ordered separately (see [“6.5. Ordering chart accessories” on page 10](#)).

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Pressure range ^{2.)}			Article no. per voltage/frequency			
				DC	AC		024/DC	024/50	110/50	230/50
				Liquids and gases	Liquids	Gases				
		[mm]	[m ³ /h]	[bar]	[bar]	[bar]	[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Seal material NBR									
	G ¼	4	0.5	0...6	0...12	0...16	055418 ☒	145729 ☒	–	054569 ☒
		6	0.8	0...2	0...4	0...8	145760 ☒	054924 ☒	054729 ☒	145763 ☒
	G ¾	6	0.8	0...2	0...4	0...8	055963 ☒	053680 ☒	–	054360 ☒
		10	1.5	0...0.4	0...1	0...1.5	145784 ☒	145805 ☒	040521 ☒	145786 ☒
	G ½	6	0.8	0...2	0...4	0...8	145771 ☒	057212 ☒	065499 ☒	145772 ☒
		8	0.9	0...0.5	0...1.5	0...2.5	040532 ☒	043220 ☒	065361 ☒	056421 ☒
		10	1.5	0...0.4	0...1	0...1.5	145788 ☒	145789 ☒	145790 ☒	120133 ☒
		12	1.8	0...0.1	0...0.5	0...1	145796 ☒	145797 ☒	–	145799 ☒
	Seal material FKM									
	G ¼	4	0.5	0...6	0...12	0...16	056010 ☒	–	–	145738 ☒
		6	0.8	0...2	0...4	0...8	043084 ☒	–	085459 ☒	054484 ☒
	G ¾	6	0.8	0...2	0...4	0...8	–	–	–	145804 ☒
		10	1.5	0...0.4	0...1	0...1.5	054672 ☒	058912 ☒	–	054673 ☒
	G ½	6	0.8	0...2	0...4	0...8	145776 ☒	051894 ☒	054696 ☒	055163 ☒
		8	0.9	0...0.5	0...1.5	0...2.5	058779 ☒	064865 ☒	–	045502 ☒
		10	1.5	0...0.4	0...1	0...1.5	145806 ☒	145792 ☒	–	054983 ☒
		12	1.8	0...0.1	0...0.5	0...1	057676 ☒	241863 ☒	–	145801 ☒

– = not available

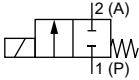
1.) Measurement at + 20 °C, 1 bar at the valve inlet and free outlet

2.) Overpressure to atmospheric pressure (the pressure rates for liquids are specified on the type plate)

Stainless steel body 74 mm

Note:

- A cable plug is included in the scope of delivery.
- The mounting bracket is included in the scope of delivery for variants with VAR KC74.
- The mounting bracket can be ordered separately (see [“6.5. Ordering chart accessories” on page 10](#)).

Circuit function	Port connection	Orifice	K _v value water ^{1.)}	Pressure range ^{2.)}			Article no. per voltage/frequency			
				DC	AC		024/DC	024/50	110/50	230/50
				Liquids and gases	Liquids	Gases				
		[mm]	[m ³ /h]	[bar]	[bar]	[bar]	[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Seal material NBR									
	G ¼	3	0.25	0...10	0...22	0...22	313500 ☹	–	–	–
		4	0.5	0...6	0...12	0...16	024477 ☹	079293 ☹	120222 ☹	043678 ☹
		6	0.8	0...2	0...4	0...8	–	087486 ☹	–	–
	G ½	6	0.8	0...2	0...4	0...8	051592 ☹	–	–	049949 ☹
		10	1.5	0...0.4	0...1	0...1.5	049824 ☹	–	–	046026 ☹
		12	1.8	0...0.1	0...0.5	0...1	087647 ☹	–	–	044823 ☹
	Seal material FKM									
	G ¼	4	0.5	0...6	0...12	0...16	145742 ☹	126470 ☹	–	087901 ☹
		6	0.8	0...2	0...4	0...8	050518 ☹	066200 ☹	–	025056 ☹
	G ½	6	0.8	0...2	0...4	0...8	062494 ☹	046313 ☹	–	048700 ☹
		8	0.9	0...0.5	0...1.5	0...2.5	052594 ☹	–	–	048318 ☹
		10	1.5	0...0.4	0...1	0...1.5	063671 ☹	145793 ☹	023942 ☹	048699 ☹
		12	1.8	0...0.1	0...0.5	0...1	179410 ☹	054103 ☹	059267 ☹	145802 ☹

– = not available

1.) Measurement at + 20 °C, 1 bar at the valve inlet and free outlet

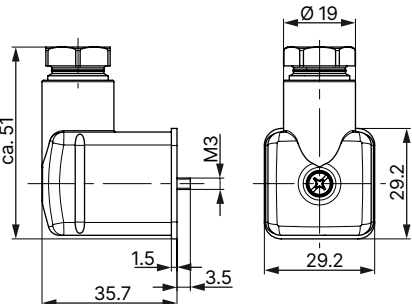
2.) Overpressure to atmospheric pressure (the pressure rates for liquids are specified on the type plate)

6.5. Ordering chart accessories

Cable plug Type 2518, form A according to DIN EN 175301 - 803

Note:

- Dimensions in mm
- For further variants see data sheet [Type 2518](#) ▶.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring (AC/DC)	0...250 V AC/DC	314802 
		With LED (AC/DC)	12...24 V AC/DC	314812 
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820 
		With rectifier, LED and varistor	12...24 V AC/DC	314816 
		Without wiring (AC/DC) with silicone seal for higher ambient temperature, e.g. steam variant (NA07)	0...250 V AC/DC	361687 

Timer Type 1087, form A according to DIN EN 175301 - 803

Note:

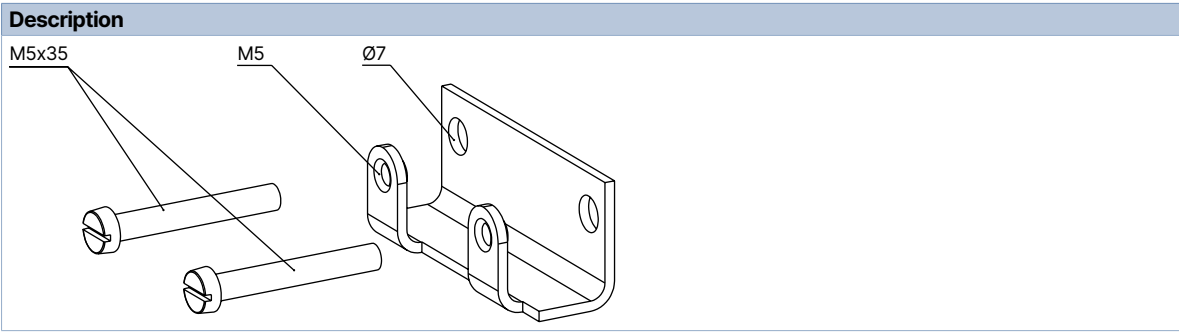
Refer to data sheet [Type 1087](#) ▶ for more information about the timer.

Timer	Approval	Product code	Voltage range	Article no.
Analogue variant 	–	1087-A-BCH-UC - 28	10...30 V AC/DC	348828 
	–	1087-A-BDK-UC - 28	24...240 V AC/DC	348829 
	cURus	1087-A-BCH-UC- 28*PU01	10...30 V AC/DC	348906 
	cURus	1087-A-BDK-UC- 28*PU01	24...240 V AC/DC	348907 
Digital variant 	–	1087-A-BFW-UC - 29	10...48 V AC/DC	348830 
	–	1087-A-BDX-UC - 29	110...240 V AC/DC	348831 
	cURus	1087-A-BFW-UC- 29*PU01	10...48 V AC/DC	348908 
	cURus	1087-A-BDX-UC- 29*PU01	110...240 V AC/DC	348909 

Mounting set brass body

Note:

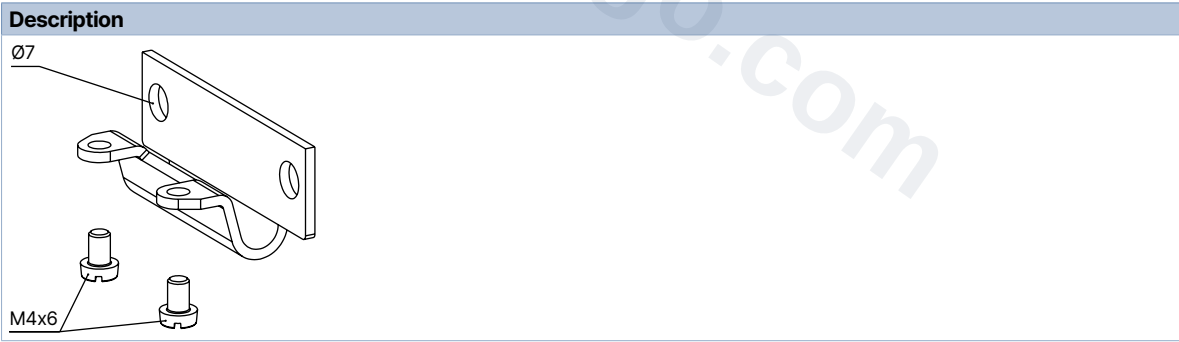
- A mounting clamp and 2 cheese head screws M5 × 35 are included in the scope of delivery.
- Only for brass variant
- 37 mm separation between the M5 threaded holes
- 48 mm separation between the Ø 7 bores
- Valve mounting with mounting set see “5. Dimensions” on page 5

Description	Article no.
	151287 

Mounting set stainless steel body

Note:

- A mounting clamp and 2 cheese head screws M4 × 6 are included in the scope of delivery.
- Only for stainless steel variant
- 29 mm separation between the M4 threaded holes
- 48 mm separation between the Ø 7 bores
- Valve mounting with mounting set see “5. Dimensions” on page 5

Description	Article no.
	260250 

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