



Product information

Intended for sprinkler applications. Protective device type BA with flanged connection for liquid category 4. Lever and worm gear have end position contacts. Mesh width on filter is adapted.

Dimension range (DN)	65 - 200
PN	10
Temperature (°C)	0 - 65
Main material	Compound unit



Area of use

Backflow prevention for sprinkler applications. Used to protect internal and external plumbing systems against backflow and pressure backflow. Protective coverage for liquid up to category 4. The backflow prevention is of type BA in accordance with SSEN 1717.

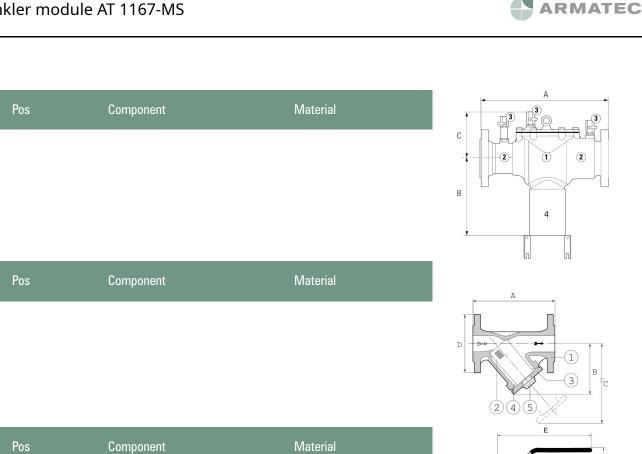
Tender text

PSG.260 Composite backflow prevention devices

Backflow prevention device AT 1167-...MS (or 1167R...MS for stainless steel execution) DN.... Complete protection module consisting of protection device type BA with double check valves and intermediate pressure-controlled chamber with drainage, inlet and outlet valves, and dirt filter with valve for drainage. PN 10 in flanged execution. For maximum protection coverage of liquid category 4 according to SS-EN 1717. AT 1167B is powder-coated inside and out. Lever and worm gear have end position contacts. Mesh width on filter is adapted.

Quality assurance

Fluid category 4, SS-EN 1717 **Product marking:** Manufacturer, DN, PN, flow direction, manufacturer's serial number. Separate inspection tag.



Butterflyvalve List of details

Pos Component	Material
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4

в

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С

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(2)

Measurements and weight

Dimension range (DN): 65 - 200

DN	65	80	100	150	200	
А	738	842	984	1222	1483	
Net weight (kg)	50	66	85	152	258	

Function and design

Backflow preventer type BA covers the risks up to liquid category 4 when connecting tap water, i.e. "Liquid that poses a health risk due to the presence of one or more toxic or highly toxic substances or one or more radioactive, mutagenic or carcinogenic substances".

The protective device has double check valves and an intermediate chamber with drainage. The protective devices work with



three different pressure zones. The pressure in zone 1 is higher than in zone 2, which is higher than in zone 3. A drainage valve is connected in zone 2 and opens when the pressure difference between zone 1 and zone 2 drops to 0.14 bar. The water in zone 2 is drained to the atmosphere. This prevents siphonage or overpressure backflow to the system.

The backflow preventer must be installed as a complete protection module. The protection module includes a protective device type BA together with a separate dirt filter. Shut-off valves are included for inlet and outlet. It is an absolute requirement that the backflow preventer is installed as a protection module.

The sprinkler module is adapted to the requirements for water sprinkler systems. The rotary valve valves are equipped with end position switches for indication of open/closed valve to meet the requirements according to SBF 120. Supplied with a filter insert with a mesh width of 8.0mm.

Technical data

Main material: Compound unit Included materials: Compound unit Temperature (°C): 0 - 65 PN: 10 Connection: Flanged EN1092 ETIM classification: EC004501 - Backflow preventer

Backflow preventer AT 1167B- Technical data

Item number	DN	KVS
1167B65	65	35.8
1167B80	80	54.3
1167B100	100	108
1167B150	150	190.9
1167B200	200	339.3

Item number	DN	KVS	Mesh size (mm)
4028B15	15	6.2	0.6
4028B20	20	9.6	0.6
4028B25	25	14.2	0.6
4028B32	32	23.1	0.6
4028B40	40	36.6	0.6



Item number	DN	KVS	Mesh size (mm)
4028B50	50	53.7	0.6
4028B65	65	95.1	0.6
4028B80	80	137.1	0.6
4028B100	100	206.4	0.6
4028B125	125	268.8	0.6
4028B150	150	401	0.6
4028B200	200	706	0.6
4028B250	250	1229	0.6
4028B350	350	2611	0.6
4028BE50	50	53.7	0.6
4028BE65	65	95.1	0.6
4028BE80	80	137.1	0.6
4028BE100	100	206.4	0.6
4028BE125	125	268.8	0.6
4028BE150	150	401	0.6
4028BE200	200	706	0.6
4028BE250	250	1229	0.6
4028BE300	300	1902	0.6
4028B50P	50	53.7	0.6
4028B80P	80	137.1	0.6
4028B100P	100	206.4	0.6
4028B125P	125	268.8	0.6



ltem number	DN	KVS	Mesh size (mm)
4028B150P	150	401	0.6
4028BE200-10	200	706	0.6
4028B50-1012	50	53.7	0.6
4028B40P	40	36.6	0.6
4028B80-1013	80	137.1	0.6
4028B32P	32	23.1	0.6
4028B32P-1012	32	23.1	0.6
4028B65P-1012	65	95.1	0.6
4028B80-1012	80	137.1	0.6
4028B40-1012	40	36.6	0.6
4028B80P-1012	80	137.1	0.6
4028BE50P	50	53.7	0.6
4028BE80P	80	137.1	0.6
4028B32-1012	32	23.1	0.6
4028B50-1014	50	53.7	0.6
4028B65P	65	95.1	0.6
4028BE65P	65	95.1	0.6
4028BE100P	100	206.4	0.6
4028B100-1012	100	206.4	0.6
4028B40-1014	40	36.6	0.6
4028B50-1013	50	53.7	0.6

Item number

4028B65-1012

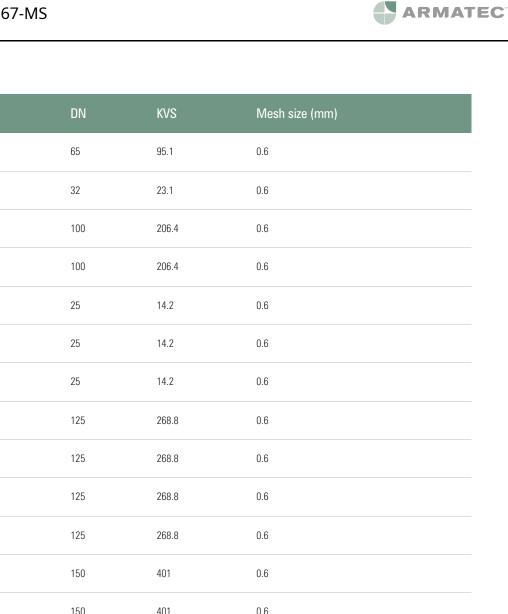
4028B32-1013

4028B100-1013

4028B100-1014

4028B25-1012

4028B25P



4028B25-1013	25	14.2	0.6
4028BE125P	125	268.8	0.6
4028B125-1012	125	268.8	0.6
4028B125-1013	125	268.8	0.6
4028B125P-1012	125	268.8	0.6
4028BE150P	150	401	0.6
4028B150-1012	150	401	0.6
4028B150-1014	150	401	0.6
4028B200P	200	706	0.6
4028BE200P	200	706	0.6
4028B200-1012	200	706	0.6
4028B200-1014	200	706	0.6
4028B250P	250	1229	0.6
4028B250-1012	250	1229	0.6
4028B250-1013	250	1229	0.6
4028B300	300	1902	0.6



Item number	DN	KVS	Mesh size (mm)
4028B400	400	3438	0.6

ltem number	KVS	Connection 1	Connection 1 - spec.	Connection 2	Connection 2 - spec.
3640-10	5.8	Internal thread ISO 228-1 (G, BSPP)	3/8	External thread ISO 228-1 (G, BSPP)	3/8
3640-15	15.7	Internal thread ISO 228-1 (G, BSPP)	1/2	External thread ISO 228-1 (G, BSPP)	1/2
3640-20	30.8	Internal thread ISO 228-1 (G, BSPP)	3/4	External thread ISO 228-1 (G, BSPP)	3/4
3640-25	49.3	Internal thread ISO 228-1 (G, BSPP)	1	External thread ISO 228-1 (G, BSPP)	1
3640-32	79	Internal thread ISO 228-1 (G, BSPP)	1 1/4	External thread ISO 228-1 (G, BSPP)	1 1/4
3640-40	125.3	Internal thread ISO 228-1 (G, BSPP)	1 1/2	External thread ISO 228-1 (G, BSPP)	1 1/2
3640-50	224.2	Internal thread ISO 228-1 (G, BSPP)	2	External thread ISO 228-1 (G, BSPP)	2

Butterflyvalve Technical data

Item number	KVS	Connection according to ISO 5211	Stem measurments	Required torque (Nm)
2313BS40	95	F07	10x10mm	4
2313BV40	95	F07	9x9mm	4
2313BS50	95	F07	10x10mm	6
2313BV50	95	F07	9x9mm	6
2313BS65	231	F07	10x10mm	10
2313BV65	231	F07	9x9mm	10
2313BS80	491	F07	10x10mm	16



ltem number	KVS	Connection according to ISO 5211	Stem measurments	Required torque (Nm)
2313BV80	491	F07	9x9mm	16
2313BS100	690	F07	12x12mm	29
2313BV100	690	F07	11x11mm	29
2313BS125	1450	F07	12x12mm	45
2313BV125	1450	F07	14x14mm	45
2313BS150	1945	F07	16x16mm	65
2313BV150	1945	F07	14x14mm	65
2313BV200	4095	F07	17x17mm	141
2313BV250	6085	F10	22x22mm	276
2313BV300	9570	F10	22x22mm	394
2313BV350	13500	F10	22x22mm	478
2313BV400	16350	F14	27x27mm	824
2313BV450	21550	F14	27x27mm	942
2313BV500	27700	F16	36x36mm	1459
2313BV600	37200	F16	36x36mm	2168
2313B-40	95	F07	9x9mm	4
2313B-50	95	F07	9x9mm	6
2313B-65	231	F07	9x9mm	10
2313B-80	491	F07	9x9mm	16
2313B-100	690	F07	11x11mm	29
2313B-125	1450	F07	14x14mm	45
2313B-150	1945	F07	14x14mm	65



Item number	KVS	Connection according to ISO 5211	Stem measurments	Required torque (Nm)
2313B-200	4095	F07	17x17mm	141
2313B-250	6085	F10	22x22mm	276
2313B-300	9570	F10	22x22mm	394

Installation and maintenance

Flowdirection: Uni-directional

Possible mounting position: Horizontal

A backflow preventer should never be installed alone (as a protective device) but should always be installed as a protection module to allow for control according to the standard SS-EN 1717. The installation drawing shows a protection module with two shut-off valves placed on either side of the protective device. These are needed for maintenance of the unit. A dirt filter must be installed between the shut-off valve on the upstream side (inlet side) and the backflow preventer (for 1168C, the dirt filter is integrated). The filter's cleaning plug should be replaced with a valve for draining.

• The protection module should be installed in a suitable location in the drinking water installation, as close to the potential source of risk as possible.

- The protection module should be mounted horizontally with the drainage opening downwards.
- Ensure that the flow arrow corresponds to the flow direction.
- The protection module should not be installed where flooding is possible.
- The protection module should be installed in a ventilated environment (not contaminated air).
- The protection module should be protected against frost and high temperatures.

• All backflow preventers will drain at some point. The drainage valve outlet is connected with an air gap to a drain with the same dimension as the backflow preventer's pipe holder. The connection dimension for the protective device's drainage is indicated under dimensions and weight.

- The drain should have a capacity that can accommodate the drainage flow.
- The protection module can only be installed for expected backflows that do not exceed the device's drainage capacity.
- The protection module should be installed so that it is not subjected to external tensile or compressive forces.

• The protection module should be easily accessible and should be mounted between 0.5 to 1.5 m above the floor to facilitate inspection and service.

• The installation drawing's H dimension indicates the minimum free dimension of space above the protection device required for accessibility for service and easy access to the pressure measurement outlets on the protective device's top. The H dimension is the total height of the protection module.

• Tap points after the backflow preventer should be marked with "NOT DRINKING WATER" to prevent consumption of drinking water in a contaminated zone. Note that a solenoid valve or a quick-closing valve before or after the backflow preventer or a weak pipe layout in connection with a long stretch can create an imbalance in the system with resulting pressure surges. An



additional check valve installed before or after the backflow preventer may possibly eliminate the problem. After installation, a functional check is performed. The property owner has an obligation to notify the water supplier when connecting a backflow preventer of type BA.



Please feel free to contact us

We answer your questions by e-mail and telephone. No question is too small, no challenge is too big. You are always welcome at Armatec.

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THE COMPANY'S MANAGEMENT SYSTEM IS CERTIFIED BY DNV ISO 9001 • ISO 14001