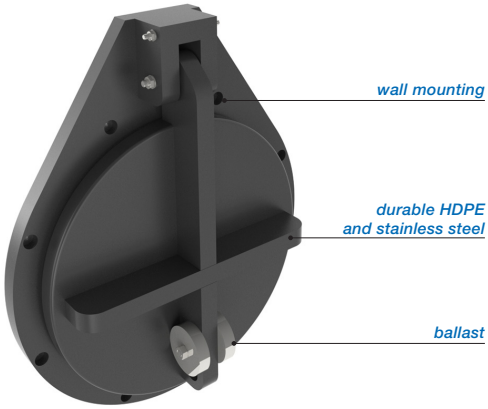
FLAP VALVE - HDPE / SS316L

TYPE WALL MOUNTING (G), Ø110 - 400 MM.



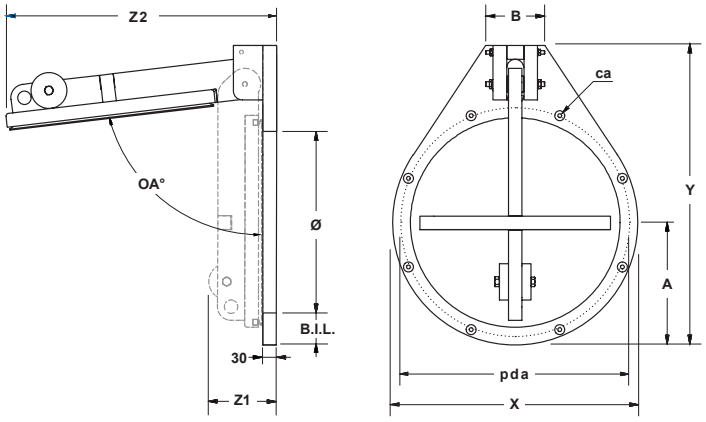
The Freedrain® non-return valve is installed mostly above the waterline (in surface water / sewage / in case of emergency / flood protection), regulating a water flow in a single direction and preventing any back flow. To be applied practically in all kinds of environments with free flow / gravitation. These flap valves are manufactured in our own factory, from high quality HDPE, which is lightweight material and has a high chemical resistance. The flap valve will be equipped with SS316L hinge pins and extra ballast weight to prevent the flap valve door from floating. The larger flap valves will be equipped with SS316L reinforcement profiles.

The On-seating tightening shall be effected by means of a special EDPM lip seal to withstand 1 meter water column (long duration - 50 years) above the culvert and 5 meter water column from bottom invert (short duration – 72 hours) without any visible deformation. The flap valves shall be water tight in on-seating situation.

The standard versions are suitable for wall mounting. But the flap valves can be supplied with a spigot end (model S or Model BS) or with flange connections (model F or PF).

Advantages:

- Made of durable material, HDPE and SS316L.
- Light weight, easy to install.
- Easy to do custom made designs such as square, rectangular or egg shaped.
- Design life of 50 years.
- Maintenance free
- Fast opening moment, no accumulation of dirt in pipe.
- As from Ø 500 mm the flap valve will be equipped with 2 hinge systems.
- Will act as double hung, by means of special designed sleeve in hinge frame.
- Opening angle is limited, so it can't remain open.
- High UV protection.
- Easy replaceable lip seal



Other mounting options:

- Wall mounting with an angle of 10° (model ATK-A).
- Flange connection (model ATK-F or ATK-PF).
- Spigot end for connecting with socket/coupling (model ATK-S) or to be inserted in existing pipe (model ATK-BS).
- Opening moments of the flap valve can be adjusted on request.

Installation:

- The flap valve shall be mounted perpendicularly and free of tension to a flat wall. By preference mounting has to be done with stainless steel A4 fixing anchors. As per our installation instructions.

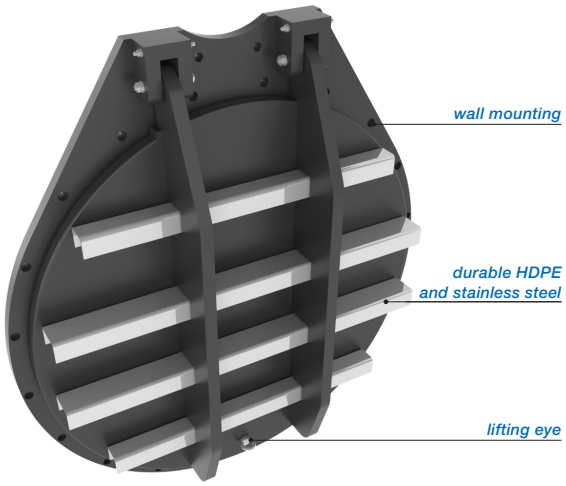
type Freedrain®	Ø mm.	B.I.L. mm.	X mm.	Y mm.	Z1 mm.	Z2 mm.	A mm.	B mm.	opening angle	pda mm.	chemical anchors	approx. weight
AMATK-K.0110	Ø 110	70	250	370	130	±310	126	130	± 78°	Ø 220	M8x110 (4x)	±4 kg.
AMATK-K.0125	Ø 125	88	300	420	130	±360	150	130	± 78°	Ø 270	M8x110 (5x)	±5 kg.
AMATK-K.0160	Ø 160	70	300	420	130	±360	150	130	± 78°	Ø 270	M8x110 (5x)	±5 kg.
AMATK-K.0200	Ø 200	70	340	460	130	±400	170	130	± 78°	Ø 310	M8x110 (6x)	±6 kg.
AMATK-K.0250	Ø 250	70	390	510	130	±440	195	130	± 78°	Ø 360	M8x110 (6x)	±7 kg.
AMATK-K.0300	Ø 300	70	440	560	130	±500	220	130	± 78°	Ø 410	M8x110 (6x)	±8 kg.
AMATK-K.0400	Ø 400	70	540	660	150	±595	270	130	± 78°	Ø 510	M8x110 (8x)	±13 kg.

Dimensions in millimeters, weights in kilograms. Subject to changes in images, dimensions and description. Placement, installation and use in accordance with our regulations.

17/08/2020

FLAP VALVE - HDPE / SS316L

TYPE WALL MOUNTING (G), Ø500 - 1000 MM.



The Freedrain® non-return valve is installed mostly above the waterline (in surface water / sewage / in case of emergency / flood protection), regulating a water flow in a single direction and preventing any back flow. To be applied practically in all kinds of environments with free flow / gravitation. These flap valves are manufactured in our own factory, from high quality HDPE, which is lightweight material and has a high chemical resistance. The flap valve will be equipped with SS316L hinge pins and extra ballast weight to prevent the flap valve door from floating. The larger flap valves will be equipped with SS316L reinforcement profiles.

The On-seating tightening shall be effected by means of a special EDPM lip seal to withstand 1 meter water column (long duration - 50 years) above the culvert and 5 meter water column from bottom invert (short duration – 72 hours) without any visible deformation. The flap valves shall be water tight in on-seating situation.

The standard versions are suitable for wall mounting. But the flap valves can be supplied with a spigot end (model S or Model BS) or with flange connections (model F or PF).

Advantages:

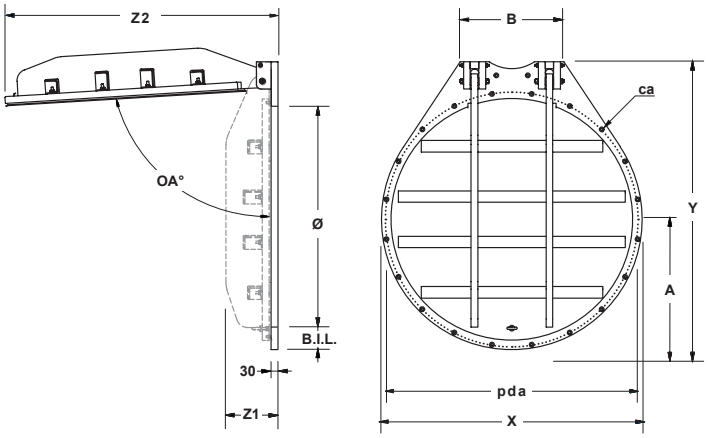
- Made of durable material, HDPE and SS316L.
- Light weight, easy to install.
- Easy to do custom made designs such as square, rectangular or egg shaped.
- Design life of 50 years.
- Maintenance free
- Fast opening moment, no accumulation of dirt in pipe.
- As from Ø 500 mm the flap valve will be equipped with 2 hinge systems.
- Will act as double hung, by means of special designed sleeve in hinge frame.
- Opening angle is limited, so it can't remain open.
- High UV protection.
- Easy replaceable lip seal

Other mounting options:

- Wall mounting with an angle of 10° (model ATK-A).
- Flange connection (model ATK-F or ATK-PF).
- Spigot end for connecting with socket/coupling (model ATK-S) or to be inserted in existing pipe (model ATK-BS).
- Opening moments of the flap valve can be adjusted on request.

Installation:

- The flap valve shall be mounted perpendicularly and free of tension to a flat wall. By preference mounting has to be done with stainless steel A4 fixing anchors. As per our installation instructions.



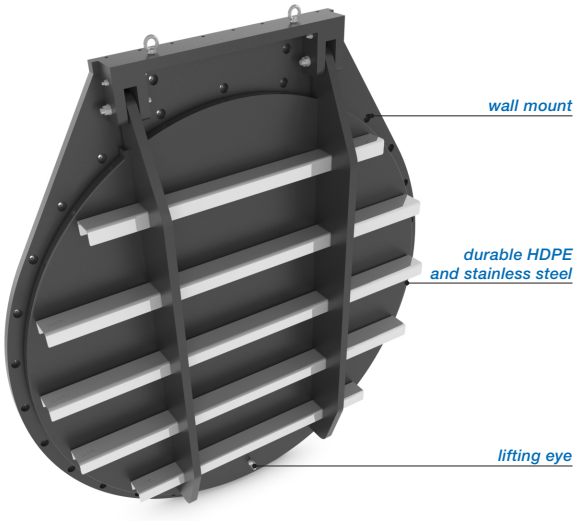
type Freedrain®	Ø mm.	B.I.L. mm.	X mm.	Y mm.	Z1 mm.	Z2 mm.	A mm.	B mm.	opening angle	pda mm.	chemical anchors	approx. weight
AMATK-K.0500	Ø 500	75	650	745	150	± 680	325	378	± 78°	Ø 620	M8x110 (10x)	±18 kg.
AMATK-K.0600	Ø 600	75	750	845	150	± 775	375	378	± 78°	Ø 720	M8x110 (12x)	±25 kg.
AMATK-K.0700	Ø 700	75	850	965	160	± 890	425	398	± 78°	Ø 820	M8x110 (14x)	±32 kg.
AMATK-K.0800	Ø 800	75	950	1065	210	± 995	475	418	± 78°	Ø 920	M8x110 (16x)	±43 kg.
AMATK-K.0900	Ø 900	75	1050	1165	200	± 1085	525	438	± 78°	Ø 1020	M8x110 (20x)	±53 kg.
AMATK-K.1000	Ø 1000	75	1150	1270	230	± 1180	575	458	± 80°	Ø 1120	M8x110 (22x)	±68 kg.

Dimensions in millimeters, weights in kilograms. Subject to changes in images, dimensions and description. Placement, installation and use in accordance with our regulations.

17/08/2020

FLAP VALVE - HDPE / SS316L

TYPE WALL MOUNTING (G), Ø1100 - 2000 MM.



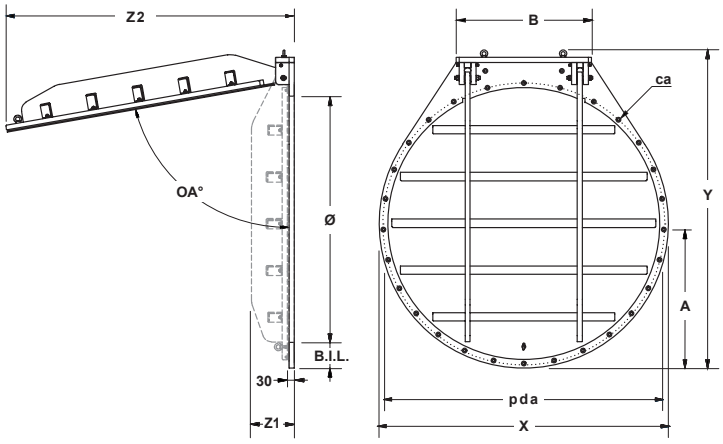
The Freedrain® non-return valve is installed mostly above the waterline (in surface water / sewage / in case of emergency / flood protection), regulating a water flow in a single direction and preventing any back flow. To be applied practically in all kinds of environments with free flow / gravitation. These flap valves are manufactured in our own factory, from high quality HDPE, which is lightweight material and has a high chemical resistance. The flap valve will be equipped with SS316L hinge pins and extra ballast weight to prevent the flap valve door from floating. The larger flap valves will be equipped with SS316L reinforcement profiles.

The On-seating tightening shall be effected by means of a special EDPM lip seal to withstand 1 meter water column (long duration - 50 years) above the culvert and 5 meter water column from bottom invert (short duration – 72 hours) without any visible deformation. The flap valves shall be water tight in on-seating situation.

The standard versions are suitable for wall mounting. But the flap valves can be supplied with a spigot end (model S or Model BS) or with flange connections (model F or PF).

Advantages:

- Made of durable material, HDPE and SS316L.
- Light weight, easy to install.
- Easy to do custom made designs such as square, rectangular or egg shaped.
- Design life of 50 years.
- Maintenance free
- Fast opening moment, no accumulation of dirt in pipe.
- As from Ø 500 mm the flap valve will be equipped with 2 hinge systems.
- Will act as double hung, by means of special designed sleeve in hinge frame.
- Opening angle is limited, so it can't remain open.
- High UV protection.
- Easy replaceable lip seal



Other mounting options:

- Wall mounting with an angle of 10° (model ATK-A).
- Flange connection (model ATK-F or ATK-PF).
- Spigot end for connecting with socket/coupling (model ATK-S) or to be inserted in existing pipe (model ATK-BS).
- Opening moments of the flap valve can be adjusted on request.

Installation:

- The flap valve shall be mounted perpendicularly and free of tension to a flat wall. By preference mounting has to be done with stainless steel A4 fixing anchors. As per our installation instructions.

type Freedrain®	Ø mm.	B.I.L. mm.	X mm.	Y mm.	Z1 mm.	Z2 mm.	A mm.	B mm.	opening angle	pda mm.	chemical anchors	approx. weight
AMATK-K.1100	Ø 1100	100	1300	1470	230	± 1295	650	605	± 80°	1250	M8 x 110 (24x)	±83 kg.
AMATK-K.1200	Ø 1200	100	1400	1570	230	± 1385	700	645	± 80°	1350	M8 x 110 (26x)	±108 kg.
AMATK-K.1300	Ø 1300	100	1500	1660	230	± 1475	750	695	± 80°	1450	M10x130 (26x)	±111 kg.
AMATK-K.1400	Ø 1400	100	1600	1760	230	± 1565	800	745	± 80°	1550	M10x130 (26x)	±126 kg.
AMATK-K.1500	Ø 1500	100	1700	1880	250	± 1695	850	795	± 80°	1650	M10x130 (30x)	±140 kg.
AMATK-K.1600	Ø 1600	100	1800	2010	250	± 1810	900	845	± 80°	1750	M10x130 (32x)	±175 kg.
AMATK-K.1800	Ø 1800	100	2000	2210	320	± 2020	1000	945	± 80°	1950	M10x130 (36x)	±235 kg.
AMATK-K.2000	Ø 2000	100	2200	2410	320	± 2210	1100	1045	± 80°	2150	M10x130 (38x)	±290 kg.

Dimensions in millimeters, weights in kilograms. Subject to changes in images, dimensions and description. Placement, installation and use in accordance with our regulations.

17/08/2020