

The ATEX FloatValve

Easy handling – reliable Isolation

Technical Data

Working principle

Under normal operating conditions the medium flows through the valve with low turbulence, saving energy. The adjusted internal closure element is held in central position by a unique patented ball and spring system. This ensures the safe operation even at higher flow velocities, and if installed before or after pipe bends!

In the event of an explosion the valve closes automatically with the kinetic energy of the pressure wave preceding the flame front. The closing element is pressed axially against the pipe body of the valve and flame propagation proof arrested by a locking device. The closed position of the valve can be indicated by signal generators.

Materials

- Aluminium housing
- Mild steel ST 37, painted red
- Stainless steel W 1.4301 or W 1.4571
- internal parts stainless steel W 1.4301 or W 1.4571

Reliable Explosion Protection Safety for your Installations

Flow velocity limit

- freely adjustable up to 30m/s
- easy on-site conversion, can be performed by the plant operator

Installation position and explosion direction

Easy on-site conversion, can be performed by the plant operator

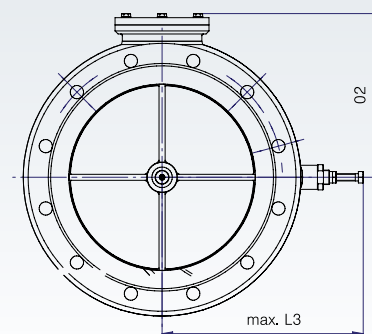
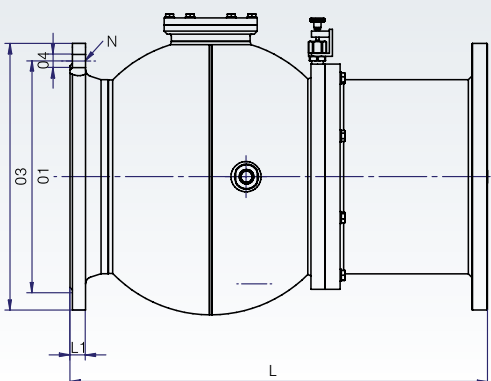
Product temperature

Independent of product temperature by guaranteed flame arresting without internal seals!

Options

- electrical switch contacts for signalling of “closed” position, also suitable for use in explosive areas
- additional stainless steel versions
- customised surface finishing
- increased product temperature
- Gas proof version up to max. operating pressure

Technical changes reserved, E&OE





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		Unit	Size						
		DN	DN100	DN150	DN200	DN250	DN300	DN400	DN500
Diameter		Inch	4"	6"	8"	10"	12"	16"	20"
Min. explosion pressure		mbar	50	50	50	50	50	50	50
Max. explosion pressure (20°C)		bar (abs)	12						
Air velocity in explosion direction		m/s	10-30						
Air velocity against explosion direction		m/s	35						
Organic dusts ≤ 30 m/s	Min. distance	m	2	2	3	3	3	3	3
	Max. distance	m	12	12	12	12	12	12	12
Gases IIB ≤ 30 m/s	Min. distance	m	2	2	3	3	3	3	3
	Max. distance	m	12	12	12	12	12	12	12
Hybride mixtures IIA 120% UEG ≤ 20 m/s	Min. distance	m	3	3	3	3	3	4	4
	Max. distance	m	6	6	8	8	8	8	8
Hybride mixtures IIA+IIB 120% UEG ≤ 25 m/s	Min. distance	m	3	3	4	4	5	5	5
	Max. distance	m	6	6	6	6	6	6	6
Hybride mixtures IIA 80% UEG ≤ 20 m/s	Min. distance	m	3	3	3	3	3	4	4
	Max. distance	m	6	6	8	8	8	8	8
Hybride mixtures IIA 80% UEG ≤ 25 m/s	Min. distance	m	3	3	4	4	5	5	5
	Max. distance	m	6	6	6	6	6	6	6

Dimensions & Weights: ATEX FloatValve

Nominal diameter	Reference	Unit	DN100	DN150	DN200	DN250	DN300	DN400	DN500	DN600
Outer flange diameter DIN2576-PN10	D3	mm	220	285	340	395	445	565	670	780
Bore circle Ø DIN2576-PN10	D1	mm	180	240	295	350	400	515	620	725
Bore hole Ø DIN2576-PN10	D4	mm	18	22	22	22	22	26	26	30
Outer Flange diameter Ø ANSI #150	D3	mm	228,6	279,4	342,9	406,4	482,6	596,9	698,5	812,8
Bore circle Ø ANSI #150	D1	mm	190,5	241,3	298,4	361,7	431,8	529,7	635,0	749,3
Bore hole Ø ANSI #150	D2	mm	19,0	22,2	22,2	25,4	25,4	28,6	31,7	34,9
No. of bore holes	N	pcs.	8	8	8	12	12	16	20	20
Standard length	L	mm	350	460	515	700	700	875	1150	1250
Alternative length (Ventex compatible)	L	mm	350	–	610	–	780	940	1300	1420
Flange width DIN2576-PN10	L1	mm	20	22	24	26	26	26	28	28
Flange width ANSI #150	L1	mm	23,8	25,4	28,6	30,2	31,8	36,5	42,9	47,9
Catching pin	L3	mm	210	230	270	315	350	420	500	550
Inspection lid	D2	mm	163	190	215	250	272	320	420	480
Weight	AL/ST	kg	14/22	16/36	55	73	83	165	262	360
	VA	kg	23	37	56	74	87	170	264	365

Features

- Dust loads permissible
- High temperature resistance
- No wearing parts
- Directly acting
- Product deposits permissible
- No closure by volume flow
- Triggering pressure adjustable
- Short installation length

Project planning information

- Housing materials: Painted steel, stainless steel, DN100 & DN150 additionally aluminium
- Valve prepared for assembly of an initiator M12x1 for signalling CLOSED valve position
- Available with flanges acc. to DIN or ANSI
- Maximum flow velocity infinitely adjustable depending on process and protection concept
- Installation position (horizontal/vertical) optional acc. to previous details, on-site change of installation position

ATEX worldwide



explosionprotection by ATEX

ATEX Protection Systems and Safety Solutions have been developed by Fire and Explosion-Protection experts with extensive experience from industry and safety technologies.

The ATEX Fire and Explosion Protection Concept combines the practical requirements of a production oriented industrial installation with the appropriate safety measures. This guarantees the undisturbed operation of your plant and enhances its productivity. The advantage of using ATEX Systems is recognised world wide.

Germany

ATEX Explosionsschutz GmbH
Auf der Alm 1
59519 Möhnese
Deutschland
Tel: +49 (0) 2924 8790-0
Fax: +49 (0) 2924 8790-455
info@atex100.com
www.atex100.com

**ATEX Explosionsschutz GmbH
Niederlassung NSW**
Akazienweg 8
64665 Alsbach-Hähnlein
Deutschland
Tel. +49 6257 697 53
Fax +49 6257 697 57
info@atex100.com

United Kingdom

**ATEX Explosion Hazards
Limited UK**
Unit 7 Cranford Court
Hardwick Grange, Woolston
Warrington, Cheshire, WA1 4RX
Tel: +44 1925 755153
info@explosionhazards.co.uk
www.explosionhazards.co.uk

USA

ATEX-Explosion Protection, LP
Suite 121
2629 Waverly Barn Road
Davenport, FL 33897
USA
Tel. +1 863 424 3000
Fax +1 863 424 9797
service@atexus.com

New Zealand

**Atex Fire and Explosion
Protection Ltd.**
630D Great South Rd
Ellerslie 1051
Auckland/New Zealand
Tel: +64 (0) 9 215 8885
Fax: +64 (0) 9 274 3823
c.kaars@atexnz.com
www.atexnz.com

Spain

ATEX Iberica
C/ Tirso de Molina nº 36
08940 Cornellá de Llobregat
Barcelona
Spain
Tel: +34 674723209
info@atexiberica.com
www.atexiberica.com

Japan

**ATEX Fire and Explosion
Protection, Ltd.**
TOC Ariake West Tower 7F
3-5-7 Ariake
Koto-ku, Tokyo,
135-0063 Japan
Tel +81 (0)3-6457-1311
Fax +81 (0)3-6457-1341
t.suzuki@atex100.com
www.atex100.com

