



FloatValve

English



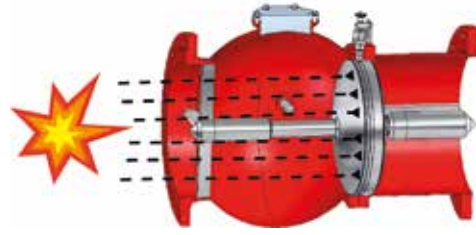
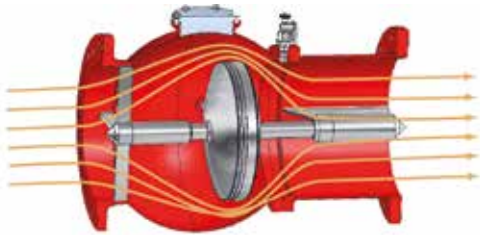
**HENNLICH -
ŽIJEME TECHNIKOU**

o.z. HYDRO-TECH HENNLICH s.r.o.
Českolipská 9, 412 01 Litoměřice

Telefon: +420 416 711 222
E-mail: hydro-tech@hennlich.cz

www.hennlich.cz/hydro-tech

Easy handling – reliable Isolation



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 state of the valve can be indicated by electrical signal transmitters.

Materials

- Aluminium
- Steel 1.0425 painted red
- Stainless steel 1.4301 or 1.4571

Options

- electrical and mechanical position indicator
- additional stainless steel versions
- customized surface finishing
- increased product temperature
- gas-tight design

Available for special requirements:

The double-acting ATEX Floatvalve Explosion protection valves. In this version, the product can flow alongside the inner closing body in both directions. In the event of an explosion, the valve closes reliably in the direction of the explosion due to its special design.

Reliable Explosion Protection Safety for your Installations

Permitted flow velocity

- up to 34 m/s
- easy on-site conversion, can be performed by the plant operator

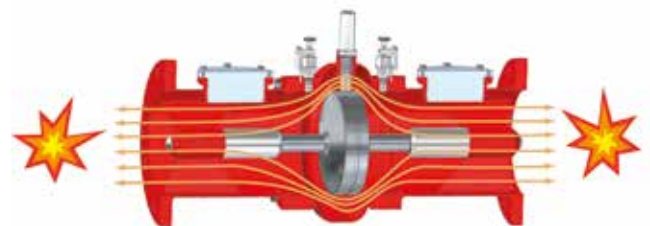
Installation position and explosion direction

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

Product temperature

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

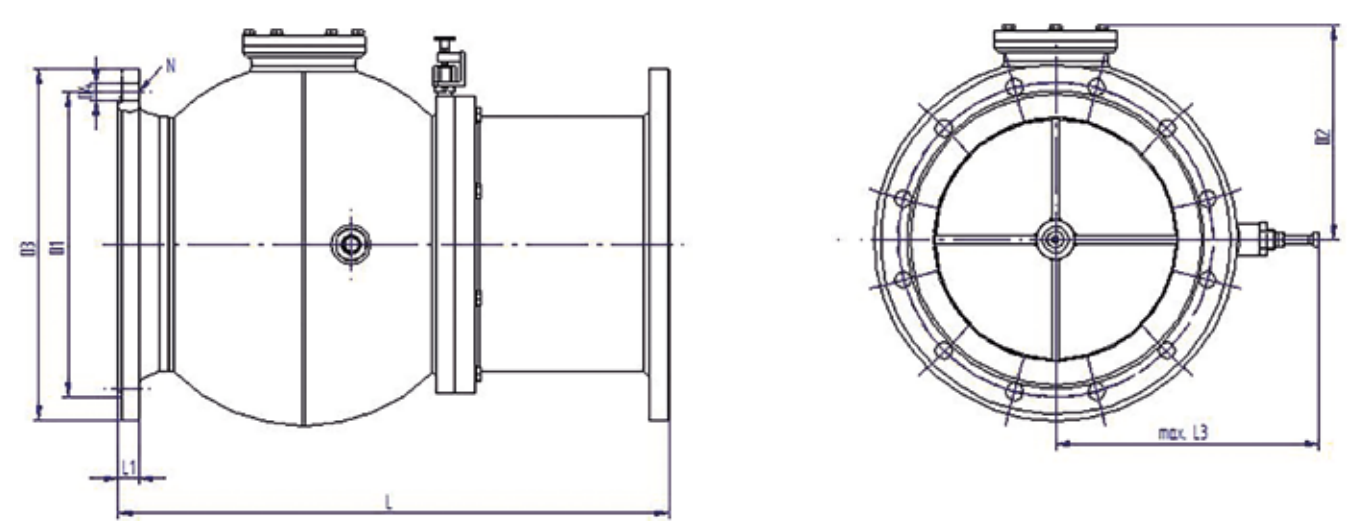
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Dimensions & Weights: ATEX FloatValve single and double acting

Nominal diameter	Reference	Unit	DN100	DN150	DN200	DN250	DN300	DN400	DN500	DN600
Outer flange diameter Ø DIN2576-PN10	D3	mm	220	285	340	395	445	565	640	780
Standard length s-a (single-acting)	L	mm	350	460	515	700	700	875	1150	1250
Alternative length (Ventex compatible)	L	mm	350	500	610	-	780	940	1300	1420
Weight s-a	AL/ST	kg	14	16	55	73	83	165	262	360
	VA	kg	23	37	56	74	87	170	264	365
Standard length d-a (double-acting)	L	mm	430	600	760	840	850	1140	1370	1500
Weight d-a	AL/St	kg	33	50	75	98	125	299	326	395
	VA	kg	56	88	84	108	135	262	340	410

Flange connection according to DIN EN 1032-1-PN10



Features

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

Project planning information

- Housing materials: Painted steel, stainless steel, DN100 und 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 in installed condition adjustable
- Installation position (horizontal/vertical) optional

Installation ATEX FloatValve

		Unit	Size							
Diameter		DN Inch	100 4"	150 6"	200 8"	250 10"	300 12"	400 16"	500 20"	600 24"
Min. explosion pressure		mbar	50							
Max. explosion pressure (20°C)		bar (abs)	12							
Air velocity against explosion direction		m/s	35							
Air velocity in explosion direction		m/s	0 - 34							
flow velocity		m/s	34	34	24 29 34	24 29 34	24 29 34	24 29 34	24 29 34	24 29 34
Organic dusts	Min. distance	m	2	2	3	3	3	3	3	4
	Max. distance		12	12	12	12	12	12	12	8
Gases and steam gas group IIB	Min. distance	m	2	2	3	3	3	3	3	-
	Max. distance		8	8	8	8	8	8	8	-
Hybride mixtures IIA ≤ 120% UEG	Min. distance	m	3	3	3 - -	3 - -	3 5 -	4 - -	4 - -	- - -
	Max. distance		6	6	6 - -	6 - -	8 6 -	6 - -	8 - -	- - -
Hybride mixtures IIA + IIB ≤ 80% UEG	Min. distance	m	3	3	3 - -	3 - -	3 5 -	4 - -	4 - -	- - -
	Max. distance		6	6	6 - -	6 - -	8 6 -	6 - -	8 - -	- - -
Hybride mixtures IIA + IIB ≤ 120% UEG	Min. distance	m	-	-	-	-	5 5 -	-	-	-
	Max. distance						6 6 -			

Germany

ATEX Explosionsschutz GmbH

Auf der Alm 1
59519 Möhnesee
Deutschland

Tel: +49 2924 8790 0
Fax: +49 2924 8790 455

info@atex100.com
www.atex100.com

ATEX Explosionsschutz GmbH

Niederlassung Südwest
Akazienweg 8
64665 Alsbach-Hähnlein
Deutschland

Tel. +49 6257 697 53
Fax +49 6257 697 57

info@atex100.com
www.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 130
2629 Waverly Barn Road
Davenport, FL 33897
USA

Tel. +1 863 424 3000
Fax +1 863 424 9797
sales@atexus.com
www.atexus.com

New Zealand

Atex Fire and Explosion
Protection Ltd. Main Office

630D Great South Rd
Ellerslie 1051
PO Box 58724, Botany 2163
Auckland/New Zealand

Tel: +64 9 215 8885
Fax: +64 9 274 3823

info@atexnz.com
www.atexnz.com

Service Australia

Atex Fire and Explosion
Protection Services Pty Ltd.

2/85 Triholm Avenue
Laverton VIC3028
PO Box 7206, Point Cook VIC3030
Australia

info@atexau.com
www.atexau.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 3 6457 1311
Fax +81 3 6457 1341
t.suzuki@atexjapan.com
www.atexjapan.com

