

SpeedWey® HSI High-Speed Isolation Valve

Description

The SpeedWey HSI valve is designed to prevent the propagation of an explosion in a pipe system. By triggering the pneumatic quick-action control valve with an electrical signal from an explosion detector, the gate will be closed quickly by compressed air released from an integrated and permanently pressurized tank. Integrated solenoid valves enable functional tests of the valve at any time. The SpeedWey HSI valve may be mounted at any angle in a pipeline. A suitable cover is mandatory if the valve is outside and installed vertically.

Fike offers an optional Field Test Module, which can be installed adjacent to the HSI valve to provide a means to conduct low-pressure cycle testing of the valve. (Refer to Fike data sheet P26837.) Periodic low-pressure cycle testing is a mandatory part of the valve service requirements and must be accomplished via end-user PLC programming if not utilizing a Fike test module.

Ordering

PART NUMBER	SIZE	FLANGE STANDARD	HYGIENIC
F0299342-S	DN65	EN 1092-1	No
F0299343-S	DN80	EN 1092-1	No
F0299344-S	DN100	EN 1092-1	No
F0299345-S	DN125	EN 1092-1	No
F0299346-S	DN150	EN 1092-1	No
F0299347-S	DN200	EN 1092-1	No
F0299348-S	DN250	EN 1092-1	No
F0299349-S	DN300	EN 1092-1	No
F0299350-S	DN400	EN 1092-1	No
F0299351-S	DN65	DIN 11864-2	Yes
F0299352-S	DN80	DIN 11864-2	Yes
F0299353-S	DN100	DIN 11864-2	Yes
F0299354-S	DN200	DIN 11864-2	Yes



Specifications

STANDARD MATERIALS OF CONSTRUCTION	Body:	1.4408 SST
	Flange:	1.4404 SST
	Seat Ring:	1.4404 SST
	Gate:	Titanium 3.7165
	Seal (primary):	PTFE (silicone for FDA)
	Seal (secondary):	NBR
	Actuator:	Aluminum
	Tank tube:	DN 60 – 200 Aluminum DN 250-400 GFK, 1.4306
NOMINAL (WORKING) PRESSURE	230 psi (16 bar), pressure-resistant construction	
EXPLOSION PRESSURE	350 psi (24 bar) max., shock-pressure resistant construction	
MEDIUM TEMPERATURE (OPERATION)	32°F - 212°F (0° - 100°C)	
AIR TANK PRESSURE	90 – 155 psi (6 – 8 bar)	
AMBIENT TEMPERATURE	-4°F - 131°F (-20° - 55°C)	
EXPLOSION NOMINAL DATA	Inner area (inside the pipeline)  II 1D 1G IIA 135°C (Zone 20, 0) Outer area (surrounding the valve)  II 3D 3G IIB 135°C (Zone 22, 2) Actuator  II 3D Ex tc IIIC T135°C Dc IP66 X  II 3G Ex nR IIB T4 Gc X Examination certificate: FSA 10 ATEX 1606 X	
EXPLOSION ATMOSPHERE	Dust/air mixtures ST1-ST2, KST max. 300 bar m/s Gas/air mixtures (explosion class IIA), KG max. 500 bar m/s	
ELECTRICAL NOMINAL DATA	Quick action solenoid coil (V3): 24VDC / 24 Watt Triggering voltages: 24VDC 50 VDC short-term condenser voltage 300 VDC short-term condenser voltage Solenoid (V1, V2a/b): 24VDC / 5 Watt Sensors (open, close): <200 mA @ 24VDC Pressure switch: 24VDC Terminal clamps (plug-in): 14 AWG (2.5 mm ²) max. Control cable gland: M25 x 1.5 for cables 14-18 mm Alarm cable gland: M16 x 1.5 for cables 6-10 mm	
INSTALLATION DISTANCE	Must be calculated by Fike EP Applications.	

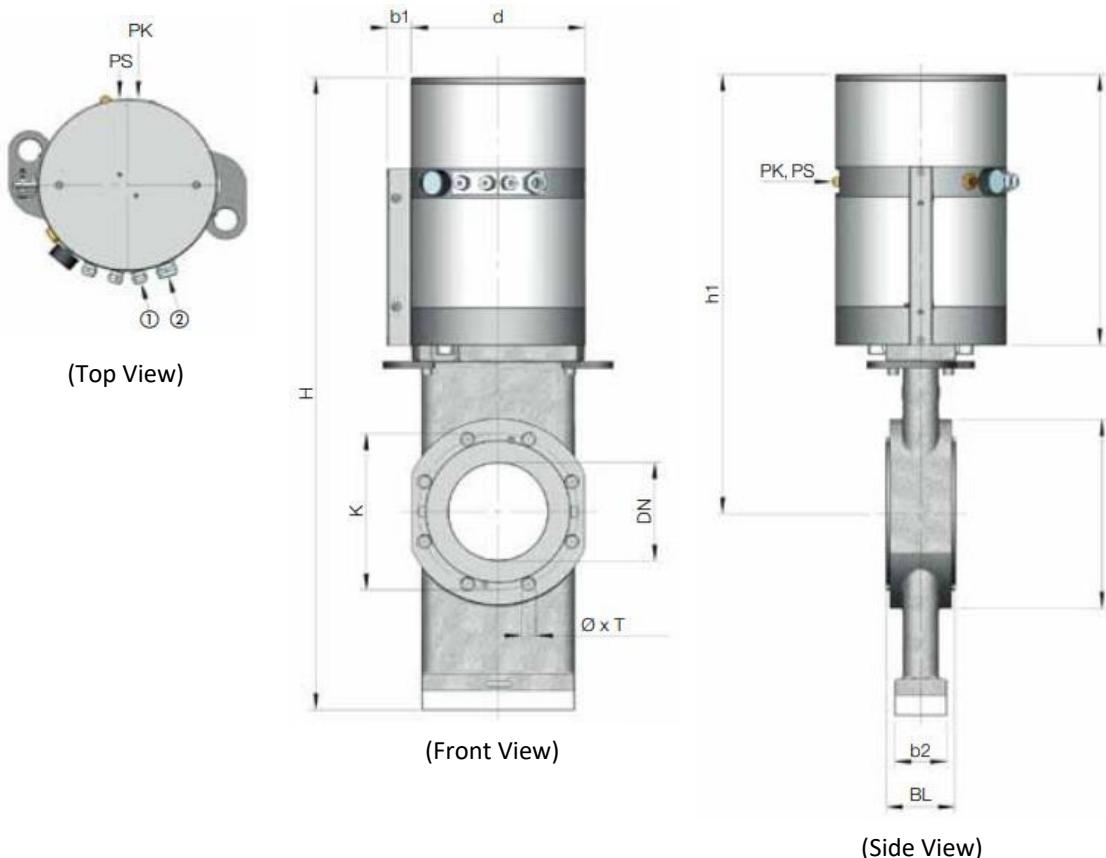
Valve Sizes, Weights, Dimensions

Measurements in (mm) unless noted. Refer to diagram below.

DN	D	K	BL	H	h1	h2	d	b1	b2	Ø	T	Bolts	PK	PS	Weight (kg/lbs)
100*	220	180	86	761	550	359	210	35	35	M16	24	8 pcs.	G1/8"	G1/8"	47 (104)
150**	285	240	106	970	666	411	262	35	35	M20	27	8 pcs.	G1/8"	G1/8"	75 (165)
200	340	295	112	1166	773	465	312	35	35	M20	30	12 pcs.	G1/8"	G1/8"	132 (291)
250	405	355	130	1390	915	519	365	35	100	M24	34	12 pcs.	G1/8"	G1/8"	512 (1,129)
300	475	410	134	1580	1024	570	415	35	100	M24	34	12 pcs.	G1/8"	G1/8"	280 (617)
400	580	525	154	2077	1352	711	520	35	140	M27	38	16 pcs.	G1/8"	G1/8"	570 (1,257)

* DN 65/80 valves share same dimensions as DN100

** DN 125 valve share the same dimension as DN150.



Contact Information

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