



Ex II 2GD
Ex d IIB T6

Model Ex-2113



Doc: Ex/2113/01
Mar 2010



IP67 Electrically operated 2 way 316SS ball valve for use in Zone 1 or 2 hazardous areas

Full bore 2 way 316 stainless steel ball valve, designed for automation with integrally cast ISO5211 actuator mounting platform fitted via a stainless steel mounting kit with an Ex electric actuator. Supplied assembled and dry bench function tested.

Full size range from 1/4" to 4". Supplied fully assembled and tested.

Type	Power supply & function
Ex-2113-240	220/1ph/50Hz (or 60Hz) On-off
Ex-2113-110	110/1ph/50Hz (or 60Hz) On-off
Ex-2113-24AC	24/1ph/50Hz (or 60Hz) On-off
Ex-2113-24VDC	24VDC On-off

Failsafe or modulating versions available, contact us for details



Applications:

Water, oil and many corrosive medias, subject to compatibility with wetted parts in contact with media.

Actuators sized on a maximum differential pressure of 10 bar wet service, if the intended duty is above this differential, or dry (air or gas) call to check actuator sizing as a larger output actuator may be required.

Maximum working temperature of assembly is +130C. If the intended duty is a higher temperature than this, contact us for options.

Valve Specifications:

Body	CF8M Cast 316SS
Ball	CF8M Cast 316SS
Seats	RTFE
Pressure rating	UT1 2" 1000psi CWP
Valve temp limits	-20 to +200°C
Actuator temp limits	-20 to + 70°C



Quick guide to the Ex electric actuator standard features :

IP67 Weatherproof epoxy painted aluminium housing.

(Can be submerged for a maximum of 30 minutes under a maximum of 1m of water.)

Torque output Max 45Nm

Available supply voltages:

220V AC / 1ph

110V AC / 1ph

24V AC / 1ph

24V DC

4W Anti-condensation heater

Manual override facility

2 End of travel SPDT switches

2 x M20 Conduit cable entries (Ex rated glands must be used - not supplied)

Terminal strip inside

-20 to +70C Ambient temperature range

Duty cycle S4 = 50%

Serial numbered

Weight 4kgs





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WIRING DIAGRAMS



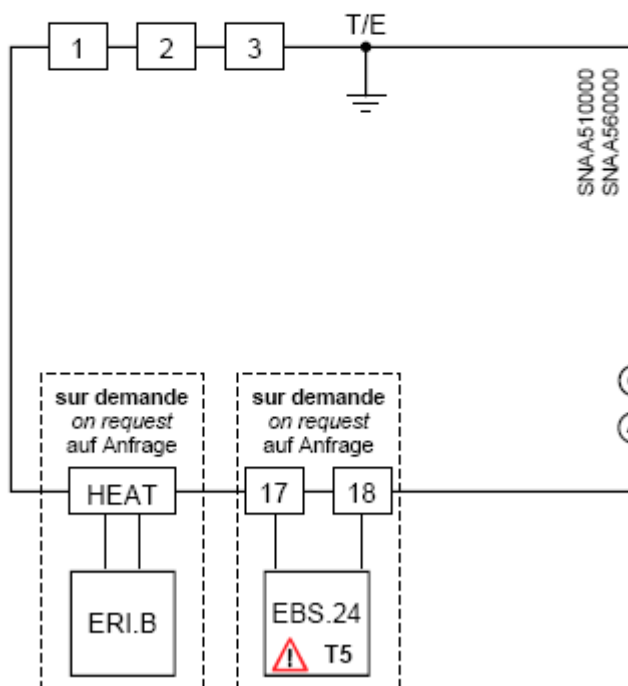
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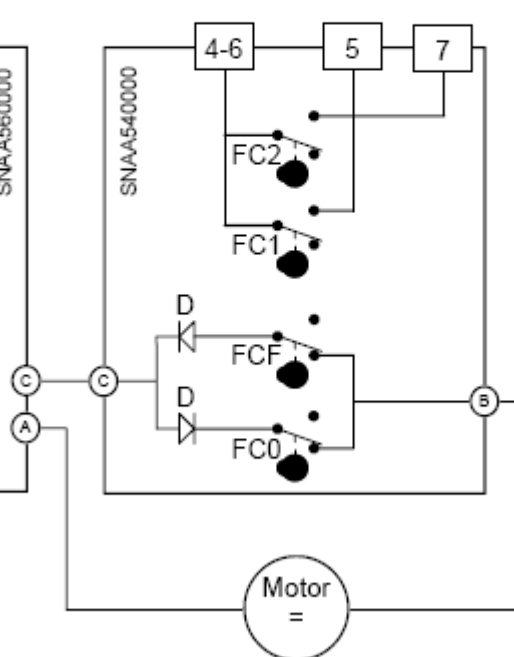


TENSION INDIQUEE SUR L'ACTIONNEUR : 24V AC/DC ou 100-240V AC (120-350V DC)
INDICATED VOLTAGE ON ACTUATOR : 24V AC/DC or 100-240V AC (120-350V DC)
SPANNUNG, DIE AUF ANTRIEBE GEZEIGT IST : 24V AC/DC ODER 100-240V AC (120-350V DC)

ALIMENTATION ET COMMANDE
POWER SUPPLY AND COMMAND
SPANNUNGSVERSORGUNG UND STEUERUNG

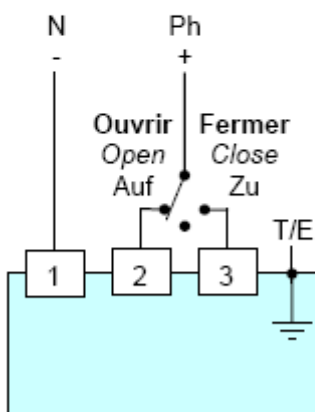


RECOPIE
FEEDBACK
RÜCKMELDUNG

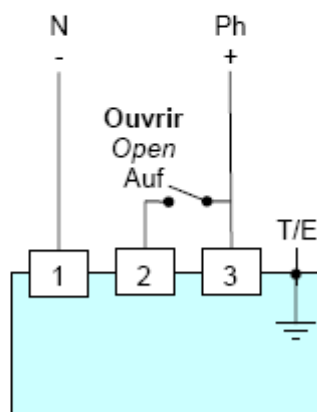


CABLAGE CLIENT SUGGERE
SUGGESTED CUSTOMER WIRING
EMPFOHLEN VERDRAHTUNG

Mode 3 points modulants
3-points modulating mode
3 Modulationspunkte Modus



Mode Tout ou rien
On-Off mode
Auf-Zu Modus



REP	DESIGNATION BESCHREIBUNG
FC0	Fin de course ouverture Open limit switch Endschalter AUF
FCF	Fin de course fermeture Close limit switch Endschalter ZU
FC1	Fin de course auxiliaire 1 Auxiliary limit switch 1 Zusätzlicher Endschalter 1
FC2	Fin de course auxiliaire 2 Auxiliary limit switch 2 Zusätzlicher Endschalter 2

IMPORTANT NOTE: Each actuator should be powered through its own individual switch or relay contacts to prevent cross feed between two or more actuators



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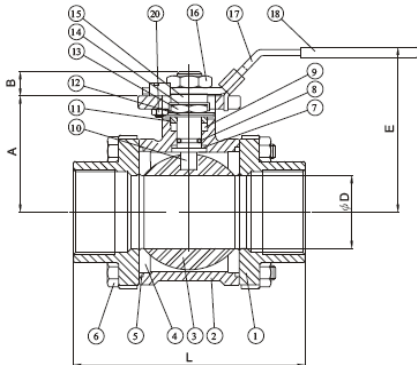
DIMENSIONS



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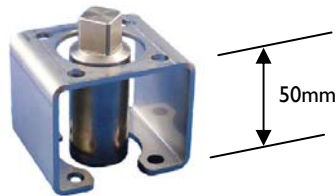
Typical valve dimensions



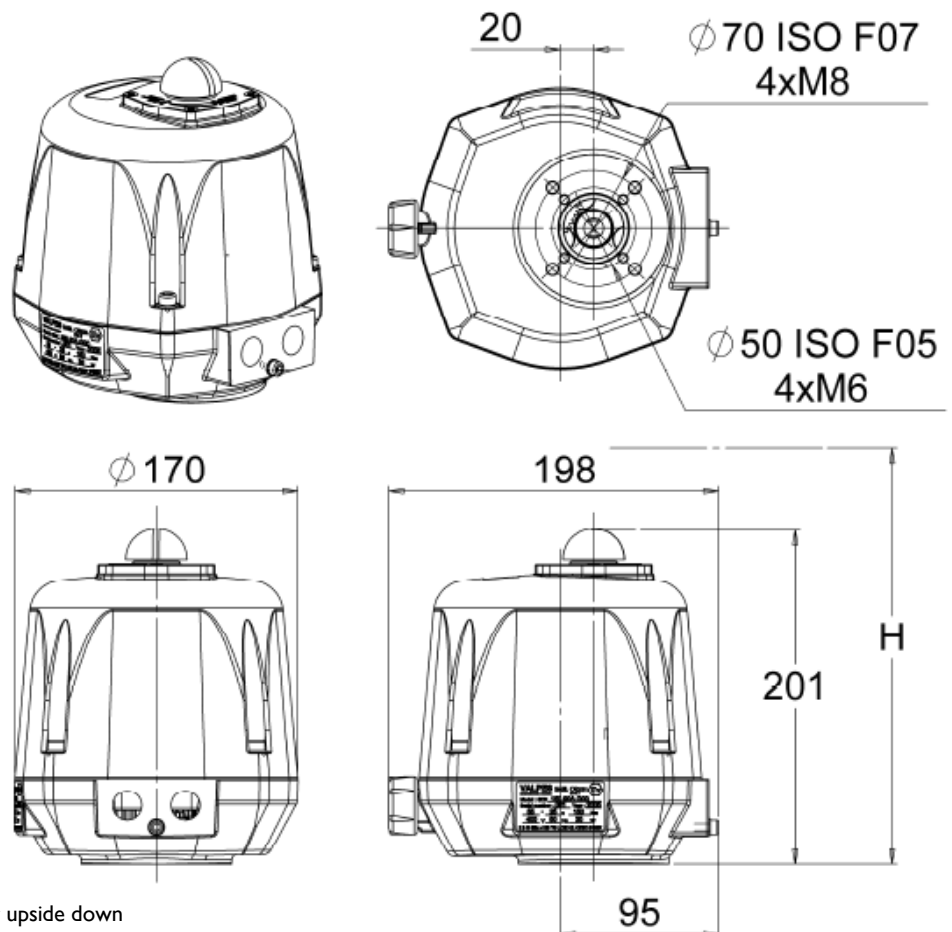
SIZE	A	B	C	D	d1	d2	E	F	G	H	L	S	T	P	Q	L1	V	W
1/4"	37	11	130	11	6.0	6.0	58	36	42	9	60.5	14.2	11.1	10	12.5	60.5	19	44
3/8"	37	11	130	12.5	6.0	6.0	58	36	42	9	60.5	17.5	11.1	12	14.5	60.5	19	44
1/2"	37	11	130	15	6.0	6.0	58	36	42	9	63.5	21.8	12.7	15	17.5	63.5	19	44
3/4"	40	11	130	20	6.0	6.0	64	36	42	9	75.5	27.1	14.3	20	22.5	75.5	19	44
1"	48	14	155	25	6.0	7.0	77	42	50	11	86	33.8	15.9	25	28	86	24	52
1 1/4"	53.5	14	155	32	6.0	7.0	83	42	50	11	96	42.5	17.5	32	35	104	24	52
1 1/2"	63.5	18	205	38	7.0	9.0	92	50	70	14	111	48.7	19.1	38	41	117	28	53
2"	72	18	205	50	7.0	9.0	100	50	70	14	129	61.1	22.2	50	54	138	28	53
2-1/2"	92	22	290	65	9.0	11.3	140	70	102	17	152.5	73.9	22.2	65	70	170	-	-
3"	102	22	290	80	9.0	11.3	150	70	102	17	168.5	89.9	25.4	80	85	192	-	-
4"	32	26	335	100	11.3	13.5	195	102	125	22	212.5	115.2	32	100	105	226	-	-

Mounting kit dimensions:

(for 4" valve height = 70mm)



Actuator dimensions:



Notes

- 1 Do NOT mount the actuator upside down
- 2 'H' = 300mm of clear space above actuator required to remove