



# INSTRUMENTS SPECIFICATION SPECIFICA STRUMENTI

Specification N° : 1E35-80-1135

Specifica N°

Customer - Cliente :

Sheet : 1 of 5

Plant - Impianto : SABIZ 25000 Kg / h

Foglio

Job - Commessa : 1E35Z

Rev. : 2

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## FLOAT LEVEL SWITCHES

*Interruttori di livello tipo a galleggiante*

### Desmet Ballestra Supply

#### REVISIONS INDEX - INDICE DELLE REVISIONI

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2	ISSUE FOR ORDER n. 101914 - COLIMA	RCL	25.10.10
1	ISSUE FOR BID - Sh.5	RCL	06.10.10
0	ISSUE FOR ORDER n. 101654 - COLIMA	RCL	27.09.10
REV	Issue Description	Author	Date
Rev.	Descrizione	Autore	Data

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BALLESTRA S.p.A.  
MILANO (ITALIA)

## INSTRUMENT SPECIFICATION

DWG. 1E35-80-1135

CUSTOMER:

SH. 2

PLANT: SABIZ 25000 Kg/h

REV. 0

JOB: 1E35 Z

Computer code:

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### FLOAT LEVEL SWITCHES

1	Strumento	Electric	<input type="checkbox"/>	Pneumatic	<input type="checkbox"/>	28	Esecuzione cassa	Normal	<input type="checkbox"/>	Wproof	<input type="checkbox"/>
2	Description	Buoyan. type	<input checked="" type="checkbox"/>	Pressure type	<input type="checkbox"/>	29	Housing type	IP 55	<input checked="" type="checkbox"/>	Tropical	<input checked="" type="checkbox"/>
3		Displac. type	<input type="checkbox"/>		<input type="checkbox"/>	30	Tipo interruttore	Mercury	<input type="checkbox"/>	Micro	<input checked="" type="checkbox"/>
4	Elem. sensibile	Float	<input checked="" type="checkbox"/>	Diaphragm	<input type="checkbox"/>	31	Switch type				
5	Detector	Rotary paddle	<input type="checkbox"/>	Other	<input type="checkbox"/>	32	Contatti tipo	SPDT	<input checked="" type="checkbox"/>	SPST	<input type="checkbox"/>
6	Trasmissione	Torque tube	<input type="checkbox"/>	Flexible link	<input type="checkbox"/>	33	Contacts type				
7	Transmission	Magnetic	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	34	Capacità contatti	5 A - 24 V dc		N° 1	
8	Materiali	Detector		AISI 316	<input checked="" type="checkbox"/>	35	Contacts rating				
9	Materials	Wetted parts		AISI 316	<input checked="" type="checkbox"/>	36	Differenziale	Fixed		Adjustab.	<input checked="" type="checkbox"/>
10		Flexible cable			<input type="checkbox"/>	37	Differential				
11		Stuffing box			<input type="checkbox"/>	38	Taratura	Internal	<input checked="" type="checkbox"/>	External	<input type="checkbox"/>
12		Case		STD 1/4"	<input checked="" type="checkbox"/>	39	Setting				
13		Transmission		AISI 316	<input checked="" type="checkbox"/>	40	Minimo differenziale				
14		Stem		AISI 316	<input checked="" type="checkbox"/>	41	Minimum differential				
15		Supp. spring			<input type="checkbox"/>	42	Interv. interrutt.	High limit	<input type="checkbox"/>	Low limit	<input type="checkbox"/>
16		Body			<input type="checkbox"/>	43	Switch operating				
17		External screws		AISI 304	<input checked="" type="checkbox"/>	44	Contatto - Contact	Open	<input type="checkbox"/>	Closed	<input type="checkbox"/>
18					<input type="checkbox"/>	45	Campo - Range			ON-OFF	
19		Detector lining			<input type="checkbox"/>	46	Con spia luminosa-With warning light				
20	Alimentazione			110 V - 50 Hz	<input type="checkbox"/>	47	Dati di processo - Process data				
21	Feeding			24 V dc	<input type="checkbox"/>	48	Stato - State			LIQUID	
22	Connections	Electrical		1/2" GAS-F		49	Viscosità - Viscosity			500 CP	
23	Attacchi	Process		3" ANSI 150 RF		50	Peso specif. - Specific weight			1,1 Kg/dm3	
24	Motore tipo - Motor type					51	Pressione - Pressure			ATM	
25	Dimensioni	B1		mm 52		52	Temperatura - Temperature			85 °C	
26	Dimensions	B2		mm > 150		53	Tendenza a ricoprire - Coating tendency			NO	
27						54					

Sigla Tag	Serbatoio Vessel	Fluido Product	Note Notes	Manufacturer Model Order n°
LSH 62.8	62A2	Slurry		<p>(*) Contact switching</p>
LSL 62.8	62A2	Slurry		

Notes:

MEC-AID. /316

SUPPLIER: COLIMA

ORDER N. 101654



DWG. 1E35-80-1135

SH. 3

REV. 0

Computer code: LSWF2A09.xls

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## FLOAT LEVEL SWITCHES

1	Strumento	Electric	<input type="checkbox"/>	Pneumatic	<input type="checkbox"/>	28	Esecuzione cassa	Normal	<input type="checkbox"/>	Wproof	<input type="checkbox"/>
2	Description	Buoyan. type	<input checked="" type="checkbox"/>	Pressure type	<input type="checkbox"/>	29	Housing type	IP 55	<input checked="" type="checkbox"/>	Tropical.	<input checked="" type="checkbox"/>
3		Displac. type	<input type="checkbox"/>		<input type="checkbox"/>	30	Tipo interruttore	Mercury	<input type="checkbox"/>	Micro	<input checked="" type="checkbox"/>
4	Elem. sensibile	Float	<input checked="" type="checkbox"/>	Diaphragm	<input type="checkbox"/>	31	Switch type				
5	Detector	Rotary paddle	<input type="checkbox"/>	Other	<input type="checkbox"/>	32	Contatti tipo	SPDT	<input checked="" type="checkbox"/>	SPST	<input type="checkbox"/>
6	Trasmissione	Torque tube	<input type="checkbox"/>	Flexible link	<input type="checkbox"/>	33	Contacts type				
7	Transmission	Magnetic	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	34	Capacità contatti	5 A - 24 V dc		N° 1	
8	Materiali	Detector		AISI 316	<input checked="" type="checkbox"/>	35	Contacts rating				
9	Materials	Wetted parts		AISI 316	<input checked="" type="checkbox"/>	36	Differenziale	Fixed	<input checked="" type="checkbox"/>	Adjustab.	<input type="checkbox"/>
10		Flexible cable			<input type="checkbox"/>	37	Differential				
11		Stuffing box			<input type="checkbox"/>	38	Taratura	Internal	<input type="checkbox"/>	External	<input type="checkbox"/>
12		Case		STD Mfr.	<input checked="" type="checkbox"/>	39	Setting				
13		Transmission		AISI 316	<input checked="" type="checkbox"/>	40	Minimo differenziale				
14		Stern		AISI 316	<input checked="" type="checkbox"/>	41	Minimum differential				
15		Supp. spring			<input type="checkbox"/>	42	Interv.interrutt.	High limit	<input type="checkbox"/>	Low limit	<input type="checkbox"/>
16		Body			<input type="checkbox"/>	43	Switch opening				
17		External screws		AISI 304	<input checked="" type="checkbox"/>	44	Contatto - Contact	Open	<input type="checkbox"/>	Closed	<input type="checkbox"/>
18					<input type="checkbox"/>	45	Campo - Range			ON-OFF	
19		Detector lining			<input type="checkbox"/>	46	Con spia luminosa-With warning light				
20	Alimentazione			110 V - 50 Hz	<input type="checkbox"/>	47	Dati di processo - Process data				
21	Feeding			24 V dc	<input checked="" type="checkbox"/>	48	Stato - State			LIQUID	
22	Connections	Electrical	:	1/2" GAS-F		49	Viscosità - Viscosity			10000 CP	
23	Attacchi	Process	:	3" ANSI 150 RF		50	Peso specif. - Specific weight			1,1-1,3 Kg/dm3	
24	Motore tipo - Motor type					51	Pressione - Pressure			ATM	
25	Dimensioni	B1	:	mm	52	52	Temperatura - Temperature			65 °C	
26	Dimensions	B2	:	mm	148	53	Tendenza a ricoprire - Coating tendency			NO	
27						54					

[illegible]

Manufacturer :  
Model :  
Order n° :

Technical drawing of the B1/B2 contactor. The drawing shows a side view of the device with a cylindrical body and a mounting bracket. Dimensions are indicated: a vertical dimension of 63 mm for the mounting hole, a horizontal dimension of 145 mm for the body length, a horizontal dimension of 345 mm for the total length, and a horizontal dimension of 90 mm for the mounting bracket. A mounting hole is located 145 mm from the left end of the body. A mounting bracket is attached to the right end of the body. The contactor is labeled B1 and B2. A note (\*) indicates contact switching.

63  
 $\pm 7,30^{\circ} (*)$   
B2  
145  
345  
B1  
90  
(\*) Contact switching

**Notes :**

MEC-A.1 / 316 - 10.1087.5

SUPPLIER: COLIMA

ORDER n. 101654

# INSTRUMENT SPECIFICATION

DWG. 1E35-80-1135

CUSTOMER:

SH.

PLANT: SABIZ 25000 Kg/h

REV.

JOB: 1E35Z

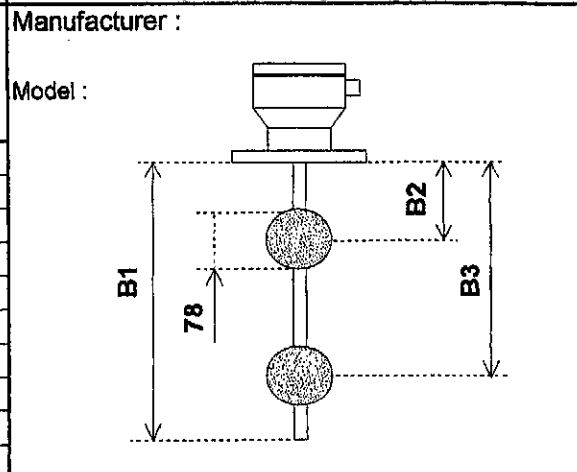
Computer code: L8WF2A09.xls

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## FLOAT LEVEL SWITCHES

1	Strumento	Electric	<input type="checkbox"/> Pneumatic	<input type="checkbox"/>	28	Esecuzione cassa	Normal	<input type="checkbox"/> Wproof	<input type="checkbox"/>
2	Description	Buoyan. type	<input checked="" type="checkbox"/> Pressure type	<input type="checkbox"/>	29	Housing type	IP 55	<input checked="" type="checkbox"/> Tropical.	<input checked="" type="checkbox"/>
3		Displac. type	<input type="checkbox"/>	<input type="checkbox"/>	30	Tipo interruttore	Mercury	<input type="checkbox"/> Micro	
4	Elem. sensibile	Float	<input checked="" type="checkbox"/> Diaphragm	<input type="checkbox"/>	31	Switch type	Reed	<input checked="" type="checkbox"/> 60VA	
5	Detector	Rotary paddle	<input type="checkbox"/> Other	<input type="checkbox"/>	32	Contatti tipo	SPDT	<input checked="" type="checkbox"/> SPST	<input type="checkbox"/>
6	Trasmissione	Torque tube	<input type="checkbox"/> Flexible link	<input type="checkbox"/>	33	Contacts type			
7	Transmission	Magnetic	<input checked="" type="checkbox"/> Other	<input type="checkbox"/>	34	Capacità contatti	5 A - 24 V dc	N° 2	
8	Materiali	Detector	AISI 316	<input checked="" type="checkbox"/>	35	Contacts rating			
9	Materials	Wetted parts	AISI 316	<input checked="" type="checkbox"/>	36	Differenziale	Fixed	<input checked="" type="checkbox"/> Adjustab.	<input type="checkbox"/>
10		Flexible cable		<input type="checkbox"/>	37	Differential			
11		Stuffing box		<input type="checkbox"/>	38	Taratura	Internal	<input type="checkbox"/> External	<input type="checkbox"/>
12		Case	STD	<input checked="" type="checkbox"/>	39	Setting			
13		Transmission	AISI 316	<input checked="" type="checkbox"/>	40	Minimo differenziale			
14		Stem	AISI 316	<input checked="" type="checkbox"/>	41	Minimum differential			
15		Supp. spring		<input type="checkbox"/>	42	Interv. interrutt.	High limit	<input checked="" type="checkbox"/> Open	<input checked="" type="checkbox"/>
16		Body		<input type="checkbox"/>	43	Switch opening			<input type="checkbox"/> Closed
17		External screws	AISI 304	<input checked="" type="checkbox"/>	44		Low limit	<input checked="" type="checkbox"/> Open	<input checked="" type="checkbox"/>
18				<input type="checkbox"/>	45				<input type="checkbox"/> Closed
19		Detector lining		<input type="checkbox"/>	46	Campo - Range			ON-OFF
20	Alimentazione		110 V - 50 Hz	<input type="checkbox"/>	47				
21	Feeding		24 V dc	<input checked="" type="checkbox"/>	48	Dati di processo - Process data			
22	Connections	Electrical	1/2" GAS-F		49	Stato - State		LIQUID	
23	Attacchi	Process	3" ANSI 150 RF		50	Viscosità - Viscosity		20 CP	
24	Motore tipo - Motor type				51	Peso specif. - Specific weight		1 Kg/dm3	
25	Dimensioni	B1	1100 mm (HOLD)		52	Pressione - Pressure		ATM	
26	Dimensions	B2	mm		53	Temperatura - Temperature		35 °C	
27		B3	mm		54	Tendenza a ricoprire - Coating tendency			NO

Sigla Tag	Serbatoio Vessel	Fluido Product	Note Notes
LSHL 63.6	Collecting Vessel	Waste water	




Notes :

MOD. TOR-2/151

SUPPLIER: COLIMA

ORDER n. 101654

	<b>INSTRUMENT SPECIFICATION</b>		Specification N°	<b>1E35-80-1135</b>
	<b>SPECIFICA STRUMENTI</b>		Specifica N°	
	Customer - Cliente	:	Sheet	<b>5</b> of <b>5</b>
	Plant - Impianto	:	Foglio	
	Job - Commessa	:	Rev.	<b>2</b>

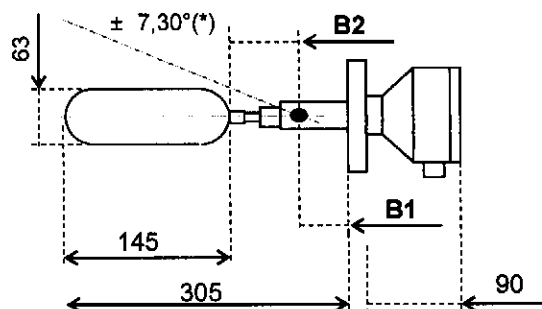
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### FLOAT LEVEL SWITCHES

1	Strumento	Electric	<input type="checkbox"/>	Pneumatic	<input type="checkbox"/>	29	Esecuzione cassa	Normal	<input type="checkbox"/>	Wproof	<input checked="" type="checkbox"/>
2	Description	Buoyan. type	<input checked="" type="checkbox"/>	Pressure type	<input type="checkbox"/>	30	Housing type	IP 67	<input checked="" type="checkbox"/>	Tropical.	<input type="checkbox"/>
3		Displac. type	<input type="checkbox"/>		<input type="checkbox"/>	31	Tipo interruttore	Mercury	<input type="checkbox"/>	Micro	<input checked="" type="checkbox"/>
4	Elem. sensibile	Float	<input checked="" type="checkbox"/>	Diaphragm	<input type="checkbox"/>	32	Switch type				
5	Detector	Rotary paddle	<input type="checkbox"/>	Other	<input type="checkbox"/>	33	Contatti tipo	n.1 SPDT	<input checked="" type="checkbox"/>	SPST	<input type="checkbox"/>
6	Trasmissione	Torque tube	<input type="checkbox"/>	Flexible link	<input type="checkbox"/>	34	Contacts type				
7	Transmission	Magnetic	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	35	Capacità contatti	<b>5A - 110VAC</b>			
8	Materiali	Float		AISI 316	<input checked="" type="checkbox"/>	36	Contacts rating				
9	Materials	Wetted parts		AISI 316	<input checked="" type="checkbox"/>	37	Differenziale	Fixed	<input checked="" type="checkbox"/>	Adjustab.	<input type="checkbox"/>
10		Flexible cable			<input type="checkbox"/>	38	Differential				
11		Stuffing box			<input type="checkbox"/>	39	Taratura	Internal	<input type="checkbox"/>	External	<input type="checkbox"/>
12		Case		MFR.STD.	<input checked="" type="checkbox"/>	40	Setting				
13		Transmission		AISI 316	<input checked="" type="checkbox"/>	41	Minimo differenziale				
14		Stem		AISI 316	<input checked="" type="checkbox"/>	42	Minimum differential				
15		Supp. spring		MFR.STD.	<input type="checkbox"/>	43	Interv.interrutt.	High limit	<input type="checkbox"/>	Low limit	<input type="checkbox"/>
16		Body		MFR.STD.	<input checked="" type="checkbox"/>	44	Switch operating				
17		External screws		AISI 316	<input checked="" type="checkbox"/>	45	Contatto - Contact	Open	<input type="checkbox"/>	Closed	<input type="checkbox"/>
18		Detector lining			<input type="checkbox"/>	46	Campo - Range	: <b>ON-OFF</b>			
19					<input type="checkbox"/>	47	Con spia luminosa-With warning light	:			
20	Alimentazione			110 V - 50 Hz	<input type="checkbox"/>	48	<b>Dati di processo - Process data</b>				
21	Feeding			24 V dc	<input type="checkbox"/>	49					
22	Attacchi	Electrical :	<b>1/2" NPT-F</b>			50	Stato -State	: <b>LIQUID</b>			
23	Connections	Process :	<b>3" ANSI 150# RF</b>			51	Viscosità - Viscosity	: <b>5 Cp</b>			
24	Motore tipo - Motor type	:				52	Peso specif. - Specific weight	: <b>0,84 Kg/dm3</b>			
25	Dimensioni	B1 :	<b>56 mm</b>			53	Pressione - Pressure	: <b>ATM</b>			
26	Dimensions	B2 :	<b>104 mm</b>			54	Temperatura - Temperature	: <b>50 °C</b>			
27						55	Tendenza a ricoprire - Coating tendency :	<b>NO</b>			
28	P & I drawing	:	<b>1E35.10.1105</b>			56					

Sigla Tag	Serbatoio Vessel	Fluido Product	Note Notes
LSH 64.10	64V10	DIESEL OIL	
LSL 64.10	64V10	DIESEL OIL	

(\*) Contact switching



Notes :

#### PURCHASING DATA

Manufacturer : COLIMA  
Model : MEC A  
Supplier : COLIMA  
Order n° : 101914