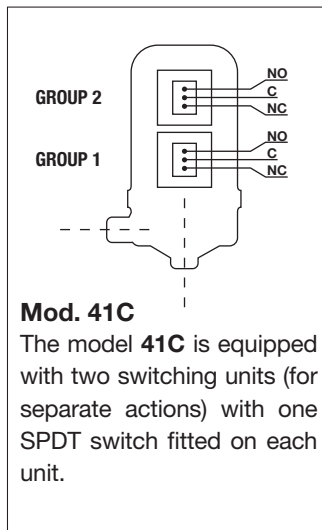
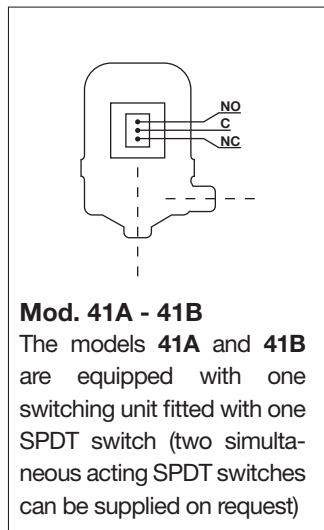


40 SERIES LEVEL SWITCHES

MODELS 41A - 41B - 41C - 41E

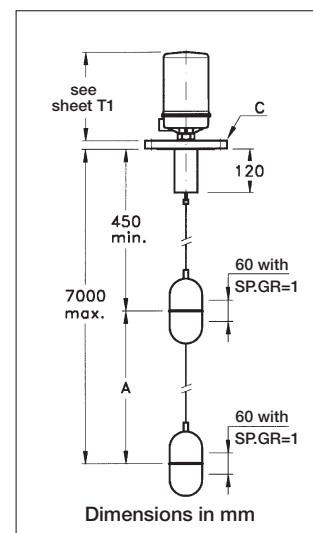
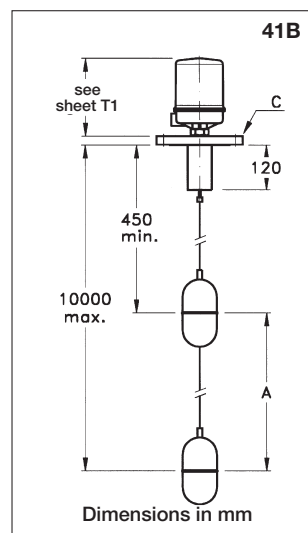
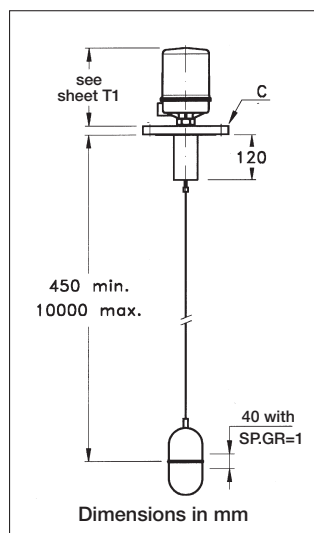
Buoyancy level switch for top mounting with one or two switching units. For pressure up to 50 Bar, for temperatures between -10°C and 135°C max. and for fluids with a specific gravity of 0.6 kg/dm³ min. Set point accuracy: ± 7 mm.



Mod. 41 A (SP.GR. 0,6 Kg/dm ³ min)	
Components	1 displacer 1 switch
Weight in kg. 1)	12
1) Refers to metallic type	

Mod. 41 B (SP.GR. 0,8 Kg/dm ³ min)	
Components	2 displacer 1 switch
Weight in kg. 1)	13,5
1) Refers to metallic type	

Mod. 41 C (SP.GR. 0,85 Kg/dm ³ min)	
Components	2 displacer 2 switch
Weight in kg. 1)	14
1) Refers to metallic type	



On request, type 41 E level switches can be made with 3 displacers and 3 switching units, similar in all respects to 41 C but with specific gravity 1 kg/dm³ min.

METALLIC VERSION			PLASTIC VERSION		
STD. FLANGE CONNECTION "C"	DISPLACERS	A min.	STD. FLANGE CONNECTION "C"	DISPLACERS	A min.
UNI DN 80 PN 10-16 /3" ANSI 150 RF	ø 76 x 240 mm	270 mm	UNI DN 80 PN 10-16/ 3" ANSI 150 FF	ø 75 x 290 mm	410 mm
UNI DN 80 PN 25-40 /3" ANSI 300 RF	ø 76 x 240 mm	270 mm			
UNI DN 100 PN 10-16 /4" ANSI 150 RF	ø 94 x 180 mm	210 mm	UNI DN 100 PN 10-16/4" ANSI 150 FF	ø 90 x 200 mm	320 mm
UNI DN 100 PN 25-40 /4" ANSI 300 RF	ø 94 x 180 mm	210 mm			

On request, 3" NPT-M threaded connections and flanges with a higher rating can be supplied.

On request, special versions can be supplied for working at temperatures below -10°C and over 135°C.



MATERIALS

CODE FOR:	Materials	Carbon steel	AISI 304	AISI 316	PVC (1)	MOPLN (1)	PVDF (1)
	Body	A	I	J	P	M	PF
	Displacers	-	-	2	5	6	PF
(1) Internal parts in AISI 316 (on request, in Hastelloy c)							

TOLERANCE LIMITS OF PLASTIC VERSION SWITCHES

MATERIALS	PVC	from 0° C to + 60° C; pressure 6 bar at 25° C; 4 bar at 35° C; 1 bar at 60° C
	MOPLN	from 0° C to + 80° C; pressure 6 bar at 25° C; 4 bar at 45° C; 1 bar at 80° C
	PVDF	from -10° C to + 135° C; pressure 6 bar at 20° C; 4 bar at 65° C; 1 bar at 135° C

SWITCHES

Type	Mercury switch	Dry microswitch				
Load rating	220 V a. c. 10 A 110 V d. c. 1,5 A	250 V a. c. 10 A 125 V d. c. 0,5 A	125 V d. c. 10 A	250 V a. c. 10 A 125 V d. c. 0,5 A waterproof	125 V a. c. 1 A 28 V d. c. 1 A waterproof with gold contacts	250 V a. c. 1 A 24 V d. c. 3 A sealed with inert gas
CODE	VD	M2	M3	M4	M6	M14
Pneumatic switch (PN) on request						

ENCLOSURES

Type	Waterproof	Explosion-proof	The (WP) enclosures can be supplied whit gland or with a 3 or 7 pole connector as per MIL standards. The (EP) enclosures can be supplied whit explosion-proof gland. 1) CESI certificate N. 02-ATEX-126
Material	Aluminium	Aluminium	
Electrical connection	1/2" NPT-F/GAS 3/4" NPT-F/GAS ISO M20x1.5	1/2" UNI 6125/NPT-F 3/4" UNI 6125/NPT-F ISO M20x1.5	
Protection degree	IP 66	ATEX II 2 G Ex d IIC T6 o T5 Gb ATEX II 1/2 D Ex ta/tb IIIC T85° o T100° C Da/Db IP 66	
CODE	WP	EP	

The level switch is supplied with 5 m of rope in the standard version.

HOW TO ORDER

Example: 41A - A - 2 - M2 - WP

- 41A
- model
- A
- body in carbon steel
- 2
- displacers in S/steel AISI 316
- M2
- dry microswitch 250 V a.c. - 10 A
- WP
- waterproof enclosure

The following data are required: type of fluid, specific gravity, operating temperature and pressure.



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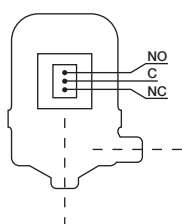
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www.officineorobiche.it e-mail: info@officineorobiche.it

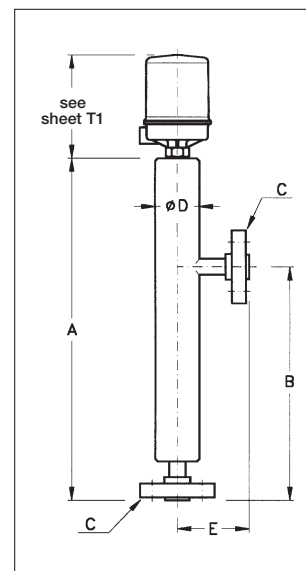
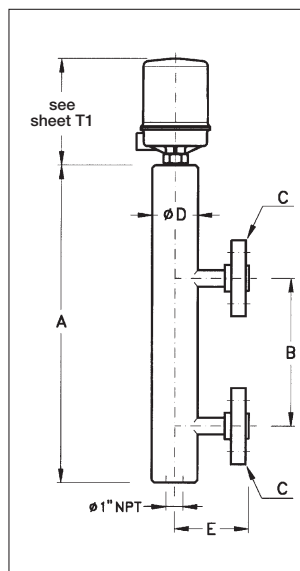
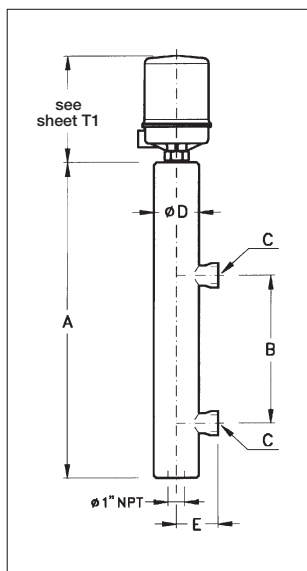
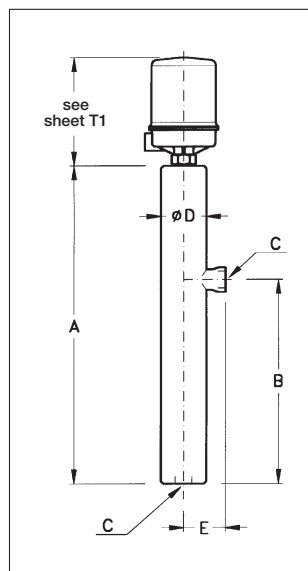
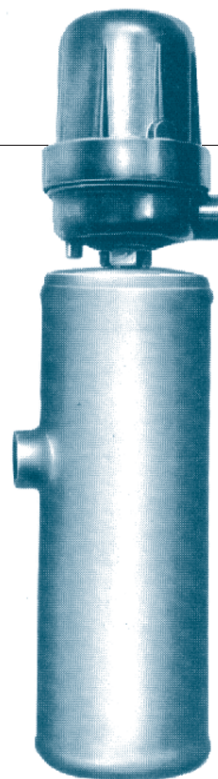
Information subject to change without prior warning

6000 SERIES LEVEL SWITCHES

Buoyancy level switch for external side mounting with a single switching unit. For pressure from 100 Bar to 400 Bar, for temperatures up to 135°C max. and for fluid with a specific gravity of 0.55 kg/dm³ min. Non-inspectable body. Minimum differential of switch, with SP.GR. 1 kg/dm³, 75 mm. This means that if the change-over takes place by increased (or decreased) contact level, the following change-over will take place when the level falls (or rises) by 75 mm. Set point accuracy: ± 7 mm.



The switching unit is fitted with one SPDT switch (two simultaneous acting SPDT switches can be supplied on request).



NOTE. The set points are supplied on request, since these change according to the specific gravity and working conditions.

Standard "C" connections: Threading 1" NPT-F; Flange UNI PNDN 25/1" ANSI.....RF; 1" S.W.
On request, non-standard threads and flanges can be supplied.

On request, special versions can be supplied for working at temperatures below -10°C and over 135°C.



CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	630	89	82	16	480	710	89	145	20
SIDE/SIDE	178	515	89	82	14	178	515	89	145	18
SIDE/SIDE	292	630	89	82	16	292	630	89	145	20
SIDE/SIDE	330	670	89	82	17	330	670	89	145	21
SIDE/SIDE	356	695	89	82	17	356	695	89	145	21
6100 Series										

CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	630	89	82	20	480	710	89	145	27
SIDE/SIDE	292	630	89	82	20	292	630	89	145	27
SIDE/SIDE	330	670	89	82	21	330	670	89	145	28
SIDE/SIDE	356	695	89	82	21	356	695	89	145	28
6150 Series										

CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	630	89	82	34	480	710	89	145	37
SIDE/SIDE	292	630	89	82	34	292330	630	89	145	37
SIDE/SIDE	330	670	89	82	35	356	670	89	145	38
SIDE/SIDE	356	695	89	82	35	356	695	89	145	38
6250 Series										

CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	640	114	155	45	490	730	114	200	47
SIDE/SIDE	292	640	114	155	45	292	640	114	200	47
SIDE/SIDE	330	680	114	155	50	330	680	114	200	52
SIDE/SIDE	356	705	114	155	50	356	705	114	200	52
6400 Series										

WORKING CONDITIONS

MODEL		6100			6150			6250			6400		
STD "C" FLANGE		1" ANSI 600 RF			1" ANSI 900 RJ			1" ANSI 1500 RJ			1" ANSI 2500 RJ		
VERSION		A	I	J	A	I	J	A	I	J	A	I	J
Temperatures	38° C	104	101	101	156	151	151	260	253	253	439	422	422
	100° C	95	84	87	142	126	130	237	211	217	395	351	362
	135° C	93	79	83	140	119	124	234	198	207	390	330	345
	BODY RATING	ANSI 600			ANSI 900			ANSI 1500			ANSI 2500		

Max pressure
in bar

MATERIALS

CODE FOR:	Materials	Carbon steel	AISI 304	AISI 316
	Body	A	I	J
	displacer	-	-	2

SWITCHES

Type	Mercury switch	Dry microswitch					Pneumatic switch*
Load rating	220 V a. c. 10 A 110 V d. c. 1,5 A	250 V a. c. 10 A 125 V d. c. 0,5 A	125 V d. c. 10 A	250 V a. c. 10 A 125 V d. c. 0,5 A waterproof	125 V a. c. 1 A 28 V d. c. 1 A waterproof with gold contacts	250 V a. c. 1A 24 V d.c. 3A sealed with inert gas	Output: 0 ÷ 40 psi max.
CODE	VD	M2	M3	M4	M6	M14	PNA (aluminium)

*Air inlet and output connection 1/4" NPT-F - No bleed type

ENCLOSURES

Type	Waterproof	Explosion-proof	The (WP) enclosures can be supplied whit gland or with a 3 or 7 pole connector as per MIL standards. The (EP) enclosures can be supplied whit explosion-proof gland. 1) CESI certificate N. 02-ATEX-126
Material	Aluminium	Aluminium	
Electrical Connection	1/2" NPT-F 3/4" NPT-F ISO M20X1.5	1/2" UNI 6125/NPT-F 3/4" UNI 6125/NPT-F ISO M20X1.5	
Protection degree	IP 66	ATEX II 2 G Ex d IIC T6 o T5 Gb ATEX II 1/2 D Ex ta/tb IIIC T85° o T100° C Da/Db IP 66	
CODE	WP	EP	

HOW TO ORDER

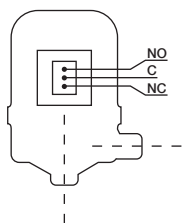
Example: 6100 - A - 2 - M2 - WP

- 6100
- model
- A
- body in carbon steel
- 2
- displacer in S/steel AISI 316
- M2
- dry micro. 250 V a.c. - 10 A
- WP
- waterproof enclosure

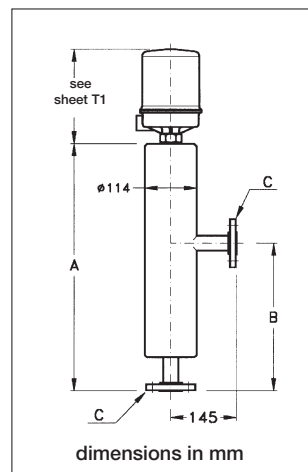
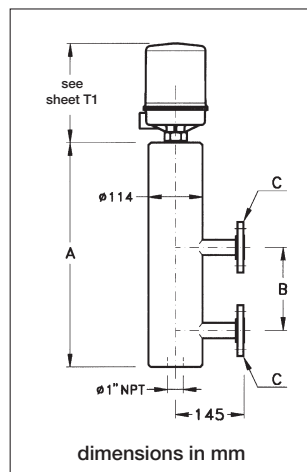
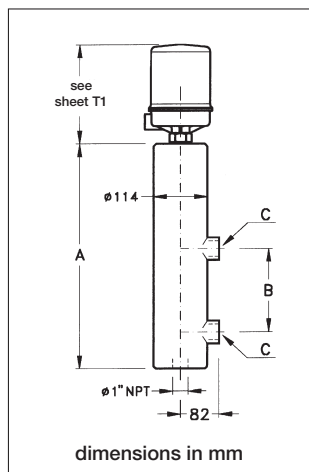
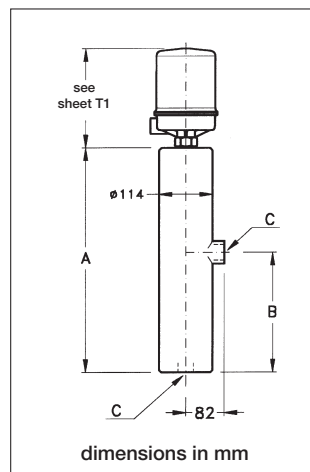
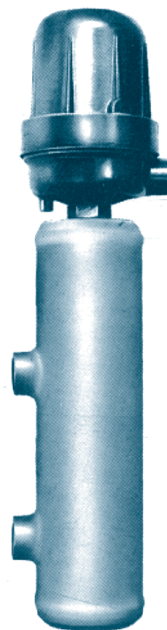
The following data are required: type of fluid, specific gravity, operating temperature and pressure.

4060 SERIES LEVEL SWITCHES

Buoyancy level switch for external mounting on tank, with a single switching unit. For pressure up to 50 Bar and temperatures up to 135°C max. Specific gravity of 0.4 kg/dm³ min. Non-inspectable body. Minimum differential of switch, with SP.GR. 0.4 kg/dm³, 70 mm. Set point accuracy: ± 7 mm.



The switching unit is fitted with one SPDT switch (two simultaneous acting SPDT switches can be supplied on request).



NOTE. The set points are supplied on request, since these change according to the specific gravity and working conditions.

CONNECTIONS	THREADED			FLANGED		
	B CONNECTIONS DISTANCE mm	A mm	WEIGHT ~ kg	B CONNECTIONS DISTANCE mm	A mm	WEIGHT ~ kg
SIDE/BOTTOM	270	500	20	330	555	25
SIDE/SIDE	178	480	20	178	480	25
SIDE/SIDE	292	595	22	292	595	27
SIDE/SIDE	330	635	23	330	635	28
SIDE/SIDE	356	660	25	356	660	30

Standard “C” connections: Threading 1” NPT-F; Flange UNI PNDN 25/1” ANSI.....RF; 1” S.W.
On request, non-standard threads and flanges can be supplied.

On request, special versions can be supplied for working at temperatures below -10°C and over 135°C.



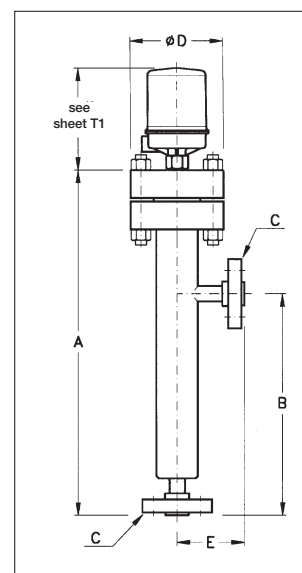
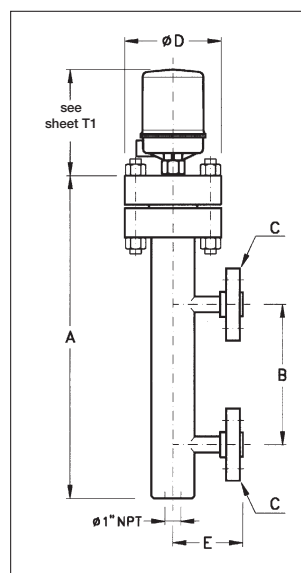
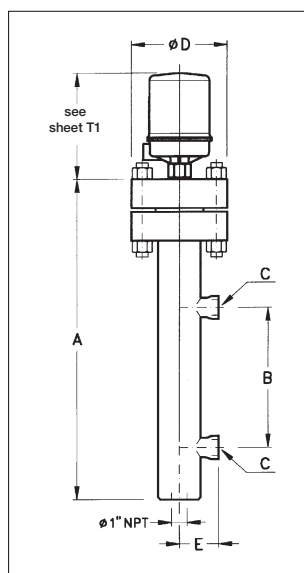
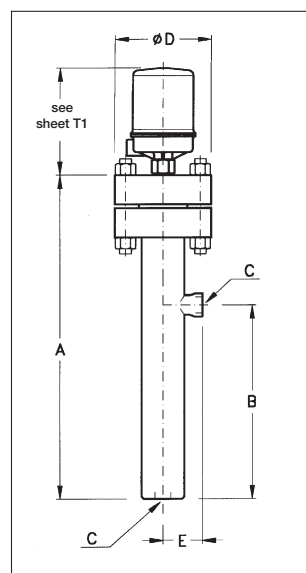
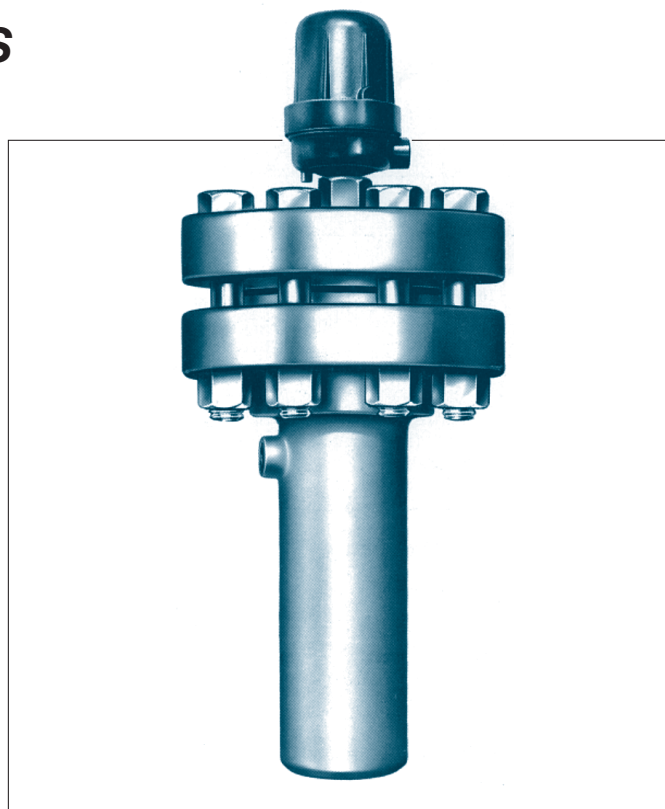
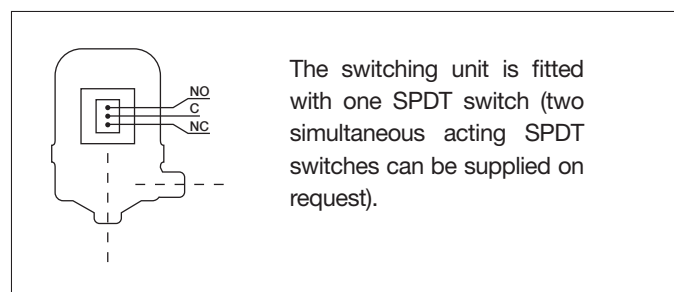
WORKING CONDITIONS

MODEL		4062			4064			4066		
STD "C" FLANGE		1" ANSI 150 RF UNI DN 25 PN 16			1" ANSI 300 RF UNI DN 25 PN 40			1" ANSI 600 RF UNI DN 25 PN 64		
VERSION		A	I	J	A	I	J	A	I	J
Tempera- tures	38° C	20	19	19	40	40	40	52	50	50
	100° C	17	15	16	35	30	31	46	40	42
	135° C	16	14	15	35	28	29	46	37	39
	BODY RATING	ANSI 150			PN 40			ANSI 300		

7000 SERIES LEVEL SWITCHES

Buoyancy level switch for external side mounting with a single switching unit. For pressure from 100 Bar to 400 Bar, for temperatures up to 135°C max. and for fluid with a specific gravity of 0.55 kg/dm³ min.

Inspectable body. Minimum differential of switch, at SP.GR. 1 kg/dm³, 75 mm. This means that if the change-over takes place by increased (or decreased) contact level, the following change-over will take place when the level falls (or rises) by 75 mm. Set point accuracy: ± 7 mm.



NOTE. The set points are supplied on request, since these change according to the specific gravity and working conditions.

Standard "C" connections: Threading 1" NPT-F; Flange UNI PNDN 25/1" ANSI.....RF; 1" S.W.
On request, non-standard threads and flanges can be supplied.

On request, special versions can be supplied for working at temperatures below -10°C and over 135°C.



CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	630	165	82	26	480	710	165	145	30
SIDE/SIDE	178	515	165	82	24	178	515	165	145	28
SIDE/SIDE	292	630	165	82	26	292	630	165	145	30
SIDE/SIDE	330	670	165	82	27	330	670	165	145	31
SIDE/SIDE	356	695	165	82	27	356	695	165	145	31
7100 Series										

CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	635	170	82	31	480	715	170	145	35
SIDE/SIDE	292	635	170	82	31	292	635	170	145	35
SIDE/SIDE	330	675	170	82	32	330	675	170	145	36
SIDE/SIDE	350	700	170	82	32	356	700	170	145	36
7150 Series										

CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	665	200	82	55	480	745	200	145	57
SIDE/SIDE	292	665	200	82	55	292	665	200	145	57
SIDE/SIDE	330	705	200	82	56	330	705	200	145	58
SIDE/SIDE	356	730	200	82	56	356	730	200	145	58
7250 Series										

CONNECTIONS	THREADED					FLANGED				
POSITION	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg	B CONNECTIONS DISTANCE mm	A mm	D mm	E mm	WEIGHT ~ Kg
SIDE/BOTTOM	400	675	185	100	80	480	755	200	156	83
SIDE/SIDE	292	710	185	100	81	292	710	200	156	84
SIDE/SIDE	330	745	185	100	83	330	745	200	156	86
SIDE/SIDE	356	770	185	100	83	356	770	200	156	87
7400 Series										

WORKING CONDITIONS

MODEL		7100			7150			7250			7400			
STD “C” FLANGE		1” ANSI 600 RF			1” ANSI 900 RJ			1” ANSI 1500 RJ			1” ANSI 2500 RJ			
VERSION		A	I	J	A	I	J	A	I	J	A	I	J	Max pressure in bar
Temperatures	38° C	104	101	101	156	151	151	260	253	253	439	422	422	
	100° C	95	84	87	142	126	130	237	211	217	395	351	362	
	135° C	93	79	83	140	119	124	234	198	207	390	330	345	
	BODY RATING	ANSI 600			ANSI 900			ANSI 1500			ANSI 2500			

MATERIALS

CODE FOR	Materials	Carbon steel	AISI 304	AISI 316
	Body	A	I	J
	displacer	-	-	2

SWITCHES

Type	Mercury switch	Dry microswitch					Pneumatic switch*
Load rating	220 V a. c. 10 A 110 V d. c. 1,5 A	250 V a. c. 10 A 125 V d. c. 0,5 A	125 V d. c. 10 A	250 V a. c. 10 A 110 V d. c. 0,5 A waterproof	125 V a. c. 1 A 28 V d. c. 1 A waterproof with gold contacts	250 V a. c. 1A 24 V d. c. 5A sealed with inert gas	Output: 0 ÷ 40 psi max.
CODE	VD	M2	M3	M4	M6	M14	PNA (aluminium)
*Air inlet and output connection 1/4" NPT-F - No bleed type							

ENCLOSURES

Type	Waterproof	Explosion-proof	The (WP) enclosures can be supplied whit gland or with a 3 or 7 pole connector as per MIL stand-ards. The (EP) enclosures can be supplied whit explosion-proof gland. 1) CESI certificate N. 02-ATEX-126.
Material	Aluminium	Aluminium	
Electrical Connection	1/2" NPT-F 3/4" NPT-F ISO M20x1.5	1/2" UNI 6125/NPT-F 3/4" UNI 6125/NPT-F ISO M20x1.5	
Protection degree	IP 66	ATEX II 2 G Ex d IIC T6 o T5 Gb ATEX II 1/2 D Ex ta/tb IIIC T85° o T100° C Da/Db IP 66	
CODE	WP	EP	

HOW TO ORDER

Example: 7100 - A - 2 - M2 - WP

- 7100 model
- A body in carbon steel
- 2 displacer in S/steel AISI 316
- M2 dry micro. 250 V a.c. - 10 A
- WP waterproof enclosure

The following data are required: type of fluid, specific gravity, operating temperature and pressure.