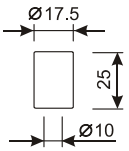
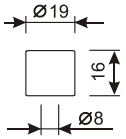
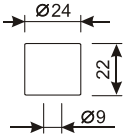
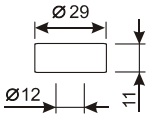
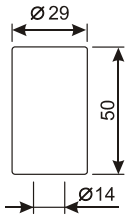
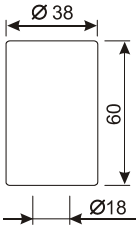
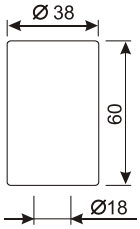
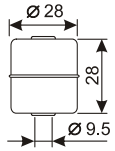
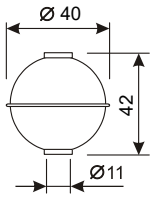
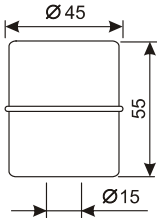
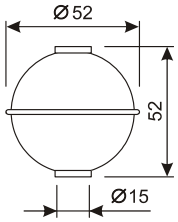
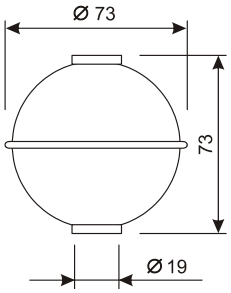
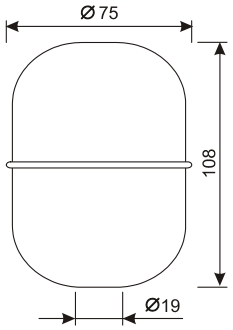
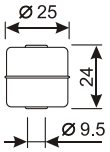
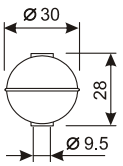
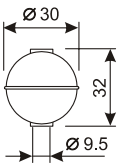
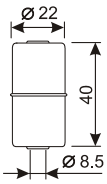
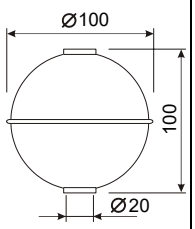
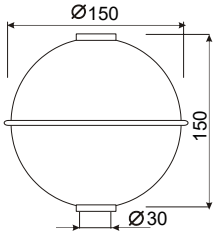
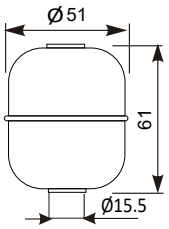
Float Switch Technology

FLOAT TYPES

plastic	N1	P0	P1	P10	P2	P3	P4
Specifications							
Material	NBR	PP	PP	PP	PP	PP	PVDF
Specific gravity	0.60 g/cm^3	0.73 g/cm^3	0.60 g/cm^3	0.72 g/cm^3	0.60 g/cm^3	0.50 g/cm^3	0.70 g/cm^3
Temperature range	-20…100 °C	-20…80 °C	-20…80 °C	-20…80 °C	-10…80 °C	-10…80 °C	-30…125 °C
Maximum pressure	0 bar	5 bar	5 bar	5 bar	3 bar	3 bar	2 bar
Dimensions	17.5x25 mm	19x16 mm	24x22 mm	29x11 mm	29x50 mm	38x60 mm	38x60 mm
Internal diameter	10 mm	8 mm	9 mm	12 mm	14 mm	18 mm	18 mm
Weight	2.5 g	2.8 g	5 g	4.4 g	14 g	23 g	37.5 g

stainless steel	S1	S2	S3	S4	S5	S6
Specifications						
Material	SS 316	SS 316	SS 316	SS 316	SS 304	SS 304
Specific gravity	0.70 g/cm^3	0.70 g/cm^3	0.65 g/cm^3	0.55 g/cm^3	0.65 g/cm^3	0.50 g/cm^3
Temperature range	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C
Maximum pressure	10 bar	30 bar	12 bar	30 bar	30 bar	10 bar
Dimensions	28x28 mm	40x42 mm	45x55 mm	52x52 mm	73x73 mm	75x108 mm
Internal diameter	9.5 mm	11 mm	15 mm	15 mm	19 mm	19 mm
Weight	8 g	19 g	37 g	33 g	105 g	147 g

stainless steel	S0	S7	S10	S20	S8	S9	S11
Specifications							
Material	SS 316	SS 316	SS 316	SS 316	SS 304	SS 304	SS 316
Specific gravity	0.72 g/cm^3	0.82 g/cm^3	0.82 g/cm^3	0.75 g/cm^3	0.5 g/cm^3	0.45 g/cm^3	0.45 g/cm^3
Temperature range	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-40…200 °C
Maximum pressure	8 bar	30 bar	50 bar	30 bar	30 bar	30 bar	15 bar
Dimensions	25x24 mm	30x28 mm	30x32 mm	22x40 mm	100x100 mm	150x150 mm	51x61 mm
Internal diameter	9.5 mm	9.5 mm	9.5 mm	8.5 mm	20 mm	30 mm	15.5 mm
Weight	6 g	8 g	8.6 g	10 g	250 g	534 g	37 g

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CHEMICAL COMPATIBILITY OF LEVEL SENSOR MATERIALS

Chemical	Concentration [%]	Temperature [°C]	PVC	PP	PVDF	PTFE	NBR	SS 304	SS 316
Ammonia Water NH_4OH	10	40	●	●	●	●	○		
		80		○	●	●			
Aqua Regia $3HCL + HNO_3$	10	40	□	□	●	●			
		80			●	●			
Benzene C_6H_6	pure	40	X	□	○	●			
		80			□	●			
Bleaching Liquor $Ca(ClO)_2$	<20	40	●		●	●			
		80			●	●			
Potassium Chromate K_2CrO_4		40	●	●	●	●	●		
		80		○	●	●	○		
Boric Acid H_3BO_3	sat	40	●	●	●	●	●		
		80		●	●	●	○		
Brine		40	●	●	●	●	●		
		80		●	●	●			
Butadiene $CH_2=CH_2=CH_2=CH_2$	gas	40	●		●	●			
		80			●	●			
Butane $CH_3(CH_2)_2CH_3$	gas	40	●	●	●	●			
		80		●	●	●			
Nitric Acid HNO_3	10	40	●	●	●	●	●	●	●
		80	X	○	●	●		●	
	30	40	●	●	●	●		●	●
		80	X	○	●	●		●	●
	50	40	○	○	●	●		●	●
		80	X	X	○	●			
	70	40	○	X	●	●		○	●
		80	X		○	●			
	98	40			○	○			
		80				□			
Oxalic Acid HOOCCOOH	<50	40	●	●	●	●			□
		80		●	●	●			
Kerosene		40	●	○	●	●			□
		80			●	●			
Phosphoric Acid H_3PO_4	10	40	●	●	●	●	●	●	●
		80		○	●	●	□	●	●
	50	40	●	●	●	●	●	●	●
		80		□	●	●	X	●	●
	80	40	●	●	●	●	○	●	●
		80		□	●	●		●	●
Toluene $C_6H_5CH_3$		40		□	□	●			
		80				○			
Sodium Hydroxide NaON	15	40	●	●	●	●	●	●	●
		80		○	□	●	□	X	X
	30	40	●	●	●	●	●	●	●
		80		○	□	●	●	X	X
	50	40	●	●	○	●	●	●	●
		80		○	X	●	●	X	X
	70	40	○	○	○	●			
		80		○	X	●			
Hydrochloric Acid HCl	15	40	●	●	●	●	○		
		80		●	●	●			
	25	40	●	●	●	●	X		
		80		●	●	●			
	38	40	●	●	●	●	X		
		80		○	●	○			
Citric Acid $C_6H_8O_7$	10	40	●	●	●	●	●	●	●
		80		○	●	●	●		
Sea water		40	●	●	●	●	●	□	□
		80	●	●	●	●	●	□	□

Chemical	Concentration [%]	Temperature [°C]	PVC	PP	PVDF	PTFE	NBR	SS 304	SS 316
Sodium Hypochlorite NaClO	3	40	●	○	●	●		□	○
		80							
	13	40	●	□	●	●		X	X
		80							
Sulfuric Acid H_2SO_4	10	40	●	●	●	●	●	●	●
		80		●	●	●	○	○	○
	30	40	●	●	●	●	●	X	X
		80		●	●	●	○	X	X
	50	40	●	●	●	●	○	X	X
		80		●	●	●	□	X	X
	60	40	●	●	●	●	●	X	X
		80		○	●	●	○	X	X
	70	40	●	●	●	●	○	X	X
		80		○	●	●	□	X	X
	80	40	●	●	●	●	●	X	X
		80		○	●	●	□		
	90	40	○	●	●	●	□	X	X
		80		○	●	●	□		
	98	40	□		●	○		○	○
		80			□	○			
Chlorine gas Cl_2	wet	40	○		●	●			
		80			□	●			
	dry	40	●		●	●			
		80			●	●			
Chromic Acid H_2CrO_4	10	40	●		●	●			
		80			●	●			
	30	40	□		●	●			
		80			●	●			
	50	40	X		●	●			
		80			□	●			
Gasoline	10	40	●		●	●			
		80			●	●			
Diesel Fuel		40			●	●		●	●
		80			●	●		●	●
Ethyl Alcohol C_2H_5OH	pure	40	●	●	●	●	●	○	○
		80		○	●	●	○		
Formic Acid HCOOH	90	40	○	○	●	●			
		80			●	●			
Hydrofluoric Acid HF	dilute	40	●	○	●	●			
		80		○	●	●			
	30	40	○	○	●	●			
		80	X	○	●	●			
	50	40	□	○	●	●			
		80		○	●	●			
Hydrogen Peroxide H_2O_2	5	40	●	●	●	●		○	●
		80		○	●	●			
	30	40	○	○	●	●			
		80		□	●	●			
	50	40	□	X	●	●			
		80			●	●			
	90	40			●	●			
		80			●	●			
Isopropyl Alcohol $(CH_3)CHOH$	pure	40	●	●	●	●	○		
		80			●	●			
Methyl Alcohol CH_3OH		40	○	●	●	●	□		
		80		○	●	●			
Urea $CO(NH_2)_2$		40	X	●	●	●	○	○	○
		80	X	●	●	●	○	○	○

● excellent ○ good □ fair X corroded

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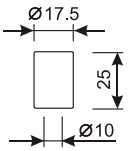
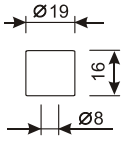
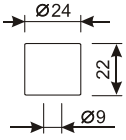
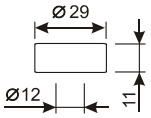
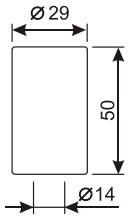
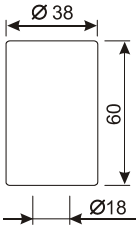
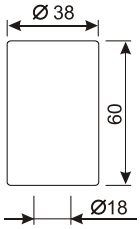
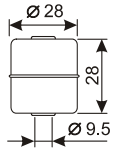
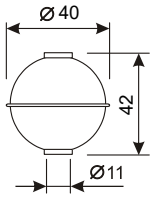
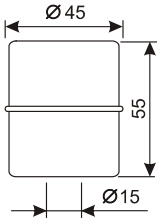
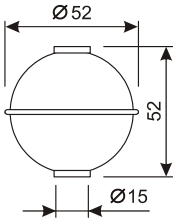
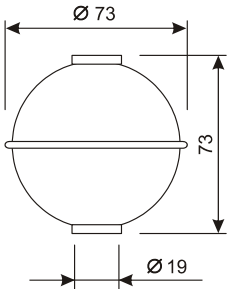
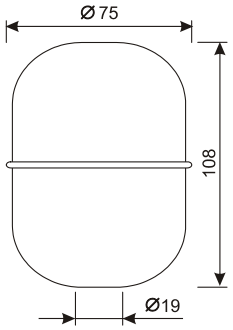
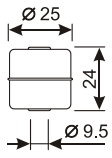
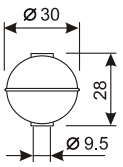
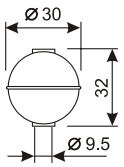
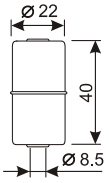
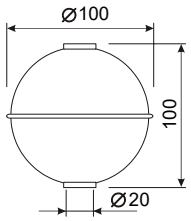
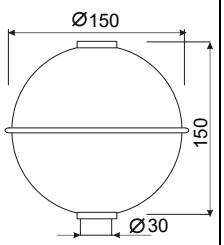
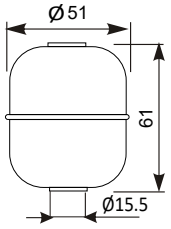
Технология на поплавковите нивосонди

ПОПЛАВЪЦИ

пластмасови	N1	P0	P1	P10	P2	P3	P4
Спецификации							
Материал	NBR	PP	PP	PP	PP	PP	PVDF
Плътност	0,60 g/cm^3	0,73 g/cm^3	0,60 g/cm^3	0,72 g/cm^3	0,60 g/cm^3	0,50 g/cm^3	0,70 g/cm^3
Темп. обхват	-20…100 °C	-20…80 °C	-20…80 °C	-20…80 °C	-10…80 °C	-10…80 °C	-30…125 °C
Макс. налягане	0 bar	5 bar	5 bar	5 bar	3 bar	3 bar	2 bar
Габаритни размери	17,5x25 mm	19x16 mm	24x22 mm	29x11 mm	29x50 mm	38x60 mm	38x60 mm
Вътр. диаметър	10 mm	8 mm	9 mm	12 mm	14 mm	18 mm	18 mm
Тегло	2,5 g	2,8 g	5 g	4,4 g	14 g	23 g	37,5 g

неръждаеми	S1	S2	S3	S4	S5	S6
Спецификации						
Материал	SS 316	SS 316	SS 316	SS 316	SS 304	SS 304
Плътност	0,70 g/cm^3	0,70 g/cm^3	0,65 g/cm^3	0,55 g/cm^3	0,65 g/cm^3	0,50 g/cm^3
Темп. обхват	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C
Макс. налягане	10 bar	30 bar	12 bar	30 bar	30 bar	10 bar
Габаритни размери	28x28 mm	40x42 mm	45x55 mm	52x52 mm	73x73 mm	75x108 mm
Вътр. диаметър	9,5 mm	11 mm	15 mm	15 mm	19 mm	19 mm
Тегло	8 g	19 g	37 g	33 g	105 g	147 g

неръждаеми	S0	S7	S10	S20	S8	S9	S11
Спецификации							
Материал	SS 316	SS 316	SS 316	SS 316	SS 304	SS 304	SS 316
Плътност	0,72 g/cm^3	0,82 g/cm^3	0,82 g/cm^3	0,75 g/cm^3	0,5 g/cm^3	0,45 g/cm^3	0,45 g/cm^3
Темп. обхват	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-20…200 °C	-40…200 °C
Макс. налягане	8 bar	30 bar	50 bar	30 bar	30 bar	30 bar	15 bar
Габаритни размери	25x24 mm	30x28 mm	30x32 mm	22x40 mm	100x100 mm	150x150 mm	51x61 mm
Вътр. диаметър	9,5 mm	9,5 mm	9,5 mm	8,5 mm	20 mm	30 mm	15,5 mm
Тегло	6 g	8 g	8,6 g	10 g	250 g	534 g	37 g

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ХИМИЧЕСКА СЪВМЕСТИМОСТ НА МАТЕРИАЛИТЕ ЗА НИВОСОНДИ

Химикал	Концентрация [%]	Температура [°C]	PVC	PP	PVDF	PTFE	NBR	неръжд. стомана 304	неръжд. стомана 316
Амонячна вода NH_4OH	10	40	●	●	●	●	○		
		80		○	●	●			
Царска вода $3HCL + HNO_3$	10	40	□	□	●	●			
		80			●	●			
Бензол C_6H_6	чист	40	X	□	○	●			
		80			□	●			
Белина $Ca(ClO)_2$	< 20	40	●		●	●			
		80			●	●			
Калиев хромат K_2CrO_4		40	●	●	●	●	●		
		80		○	●	●	○		
Борна киселина H_3BO_3	наси-тена	40	●	●	●	●	●		
		80		●	●	●	○		
Солна луга		40	●	●	●	●	●		
		80		●	●	●			
Бутадиен $CH_2=CH_2=CH_2=CH_2$	газ	40	●		●	●			
		80			●	●			
Бутан $CH_3(CH_2)_2CH_3$	газ	40	●	●	●	●			
		80		●	●	●			
Азотна киселина HNO_3	10	40	●	●	●	●	●	●	●
		80	X	○	●	●		●	
	30	40	●	●	●	●		●	●
		80	X	○	●	●		●	●
	50	40	○	○	●	●		●	●
		80	X	X	○	●			
	70	40	○	X	●	●		○	●
		80	X		○	●			
	98	40			○	○			
		80				□			
Оксалова киселина HOOCCOOH	< 50	40	●	●	●	●			□
		80		●	●	●			
Керосин		40	●	○	●	●			□
		80			●	●			
Фосфорна киселина H_3PO_4	10	40	●	●	●	●	●	●	●
		80		○	●	●	□	●	●
	50	40	●	●	●	●	●	●	●
		80		□	●	●	X	●	●
	80	40	●	●	●	●	○	●	●
		80		□	●	●		●	●
Толуол $C_6H_5CH_3$		40		□	□	●			
		80				○			
Натриева основа NaON	15	40	●	●	●	●	●	●	●
		80		○	□	●	□	X	X
	30	40	●	●	●	●	●	●	●
		80		○	□	●	●	X	X
	50	40	●	●	○	●	●	●	●
		80		○	X	●	●	X	X
	70	40	○	○	○	●			
		80		○	X	●			
Солна киселина HCl	15	40	●	●	●	●	○		
		80		●	●	●			
	25	40	●	●	●	●	X		
		80		●	●	●			
	38	40	●	●	●	●	X		
		80		○	●	○			
Лимонена киселина $C_6H_8O_7$	10	40	●	●	●	●	●	●	●
		80		○	●	●	●		
Морска вода		40	●	●	●	●	●	□	□
		80	●	●	●	●	●	□	□

Химикал	Концентрация [%]	Температура [°C]	PVC	PP	PVDF	PTFE	NBR	неръжд. стомана 304	неръжд. стомана 316
Натриев хипохлорит NaClO	3	40	●	○	●	●		□	○
		80							
	13	40	●	□	●	●		X	X
		80							
Сярна киселина H_2SO_4	10	40	●	●	●	●	●	●	●
		80		●	●	●	○	○	○
	30	40	●	●	●	●	●	X	X
		80		●	●	●	○	X	X
	50	40	●	●	●	●	○	X	X
		80		●	●	●	□	X	X
	60	40	●	●	●	●	●	X	X
		80		○	●	●	○	X	X
	70	40	●	●	●	●	○	X	X
		80		○	●	●	□	X	X
	80	40	●	●	●	●	●	X	X
		80		○	●	●	□		
	90	40	○	●	●	●	□	X	X
		80		○	●	●	□		
	98	40	□		●	○		○	○
		80			□	○			
Хлорен газ Cl_2	мокър	40	○		●	●			
		80			□	●			
	сух	40	●		●	●			
		80			●	●			
Хромена киселина H_2CrO_4	10	40	●		●	●			
		80			●	●			
	30	40	□		●	●			
		80			●	●			
	50	40	X		●	●			
		80			□	●			
Бензин	10	40	●		●	●			
		80			●	●			
Дизелово гориво		40			●	●		●	●
		80			●	●		●	●
Етанол C_2H_5OH	чист	40	●	●	●	●	●	○	○
		80		○	●	●	○		
Мравчена киселина HCOOH	90	40	○	○	●	●			
		80			●	●			
Флуороводородна киселина HF	раз-редена	40	●	○	●	●			
		80		○	●	●			
	30	40	○	○	●	●			
		80	X	○	●	●			
	50	40	□	○	●	●			
		80		○	●	●			
Водороден перокис H_2O_2	5	40	●	●	●	●		○	●
		80		○	●	●			
	30	40	○	○	●	●			
		80		□	●	●			
	50	40	□	X	●	●			
		80			●	●			
	90	40			●	●			
		80			●	●			
Изопропилов алкохол $(CH_3)CHOH$	чист	40	●	●	●	●	○		
		80			●	●			
Метанол CH_3OH		40	○	●	●	●	□		
		80		○	●	●			
Карбамид $CO(NH_2)_2$		40	X	●	●	●	○	○	○
		80	X	●	●	●	○	○	○

● отлична ○ добра □ задоволителна X не се препоръчва

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