



A selection of engineered single-level switches

Madison Company offers a complete line of Standard and Configured (slightly modified Standard designs) models. These products continue to meet the needs of applications in many markets, at competitive prices. In addition, Madison Company offers the capability to design specific liquid level switches for OEM applications that require unique considerations in materials, configurations and system interfacing.

Engineered designs incorporate over 45 years of experience in liquid level switch applications in a variety of environments and installation configurations. High reliability of the magnetic reed switch technology assures repeatability at an economical price. Our design experience and flexible manufacturing techniques also offer customers many value-added design and assembly options to reduce their product cost.

Features

- Single-point
- Magnetic reed switch technology
- High reliability
- Wide selection of available materials
- Three basic sizes: full, miniature and subminiature
- Direct interface to controllers available

Product Selection Guide

The first consideration is the type of liquid, temperature and pressure to which the switch will be subjected. Madison manufactures liquid level switches in various styles, in a variety of materials, to cover a broad range of conditions. Following are some basic recommendations for selecting the proper liquid level switch material for your application.



See Approvals pages in Reference Section

Material	Application
316 Stainless Steel	For high-temperature (to 200°C), high-pressure (to 300 PSIG) and corrosive conditions. Commonly used in food processing, medical, heating, and cooling equipment.
Polypropylene	For acidic conditions, such as found in electroplating and metal cleaning. Another choice for lower-temperature (to 105°C) food processing applications (Madison Company uses only polypropylene that is FDA-approved for food contact). Also a good choice for general-purpose applications in commercial or consumer appliances and equipment. Available in white and other colors.
Brass & Buna-N PBT & Buna-N	The selection for petroleum-based liquids, such as lubricating oils, gasoline and diesel fuels. Widely used in storage tanks of vehicles, generators, transmissions and hydraulic systems. Other uses are in lubrication, recovery, refining and fuel processing equipment. <i>Please note: PBT is not suitable for use in water above 65°C.</i>
Kynar	Chemical- and solvent-resistant properties make this material a problem solver for many applications. Its high-purity nature is ideal for food handling and sensitive laboratory or test equipment.

Once a suitable material has been selected, the type of switch and configuration are the next considerations. Madison Company stocks a full line of standard products that can meet the requirements of many applications. For specific designs, Madison can custom-build, to order, switches with an infinite number of variations and options. Please utilize our M & MT Series single-level specification sheet which, when completed, will allow our engineering department to better meet your needs.



Sensor solutions for today and the future™

CERTIFIED
ISO 9001

Madison Company 800-466-5383

27 Business Park Drive, Branford, CT 06405 • 203-488-4477 • Fax: 203-481-5036

www.madisonco.com • E-mail: info@madisonco.com



MODEL NO.	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	FITTING	APPROVALS
M5600	MS5600	1	316SS	316SS	200	200	0.55	60	22 ga. Teflon 24"	1/4" NPT	A,B,C,D,E
M5600-SPDT	MS5600-SPDT	1	316SS	316SS	200	200	0.55	25*	22 ga. Teflon 24"	1/4" NPT	A,B,C,D
M5601	MS5601	1	316SS	316SS	200	200	0.55	100	22 ga. Teflon 24"	1/4" NPT	A,B,C,D
M5917	MS5917	1	316SS	316SS	250	200	0.55	60	18 ga. UL/CSA appr.	1/4" NPT	A,B,C,D
M4600	MS4600	2	Buna-N	316SS	105	150	0.45	60	22 ga. Teflon 24"	1/4" NPT	A,B,C
M4600-SPDT	MS4600-SPDT	2	Buna-N	316SS	105	150	0.45	25*	22 ga. Teflon 24"	1/4" NPT	A,B,C
M4601	MS4601	2	Buna-N	316SS	105	150	0.45	100	22 ga. Teflon 24"	1/4" NPT	A,B,C
M8600	MS8600	2	PP	316SS	105	100	0.75	60	22 ga. Teflon 24"	1/4" NPT	A,B,C,D
M8600-SPDT	MS8600-SPDT	2	PP	316SS	105	100	0.75	25*	22 ga. Teflon 24"	1/4" NPT	A,B,C,D
M8601	MS8601	2	PP	316SS	105	100	0.75	100	22 ga. Teflon 24"	1/4" NPT	A,B,C,D
M5600-PR	MS5600-PR	3	316SS	316SS	200	500	0.70	100	22 ga. Teflon 24"	1/4" NPT	C,D
MSB5600	...	4	316SS	316SS	110	85	0.55	60	Teflon Cable 6 ft.
M3842	...	4	316SS	316SS	100	30	0.64	25*	18 AWG Neoprene Cable 10 ft.

* SPDT switch operation PP= Polypropylene

MODEL
M5000
M4400
M8020

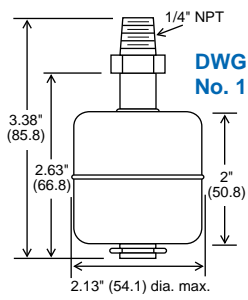
PP= Polypropylene

MODEL
M5900*
M5910*
M5920*
M5970
M5010

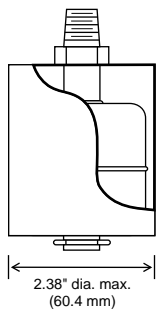
* Available with extended stem length, see drawing No. 19. Consult factory for appropriate model number.

MODEL										
M3827-1										
M3827-2										
M3827-3										
M3827-1NO										
M3827-2NO										
M3827-3NO										

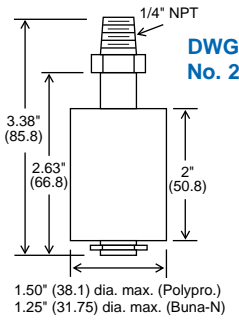
Vertical Switches



DWG No. 1



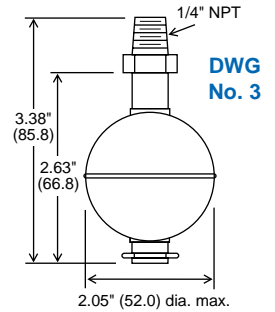
Cutaway Showing Sash Shield Operation



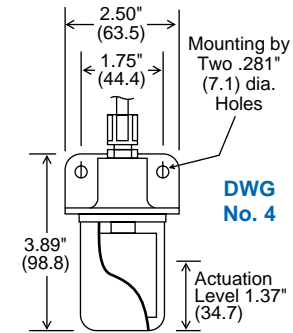
DWG No. 2



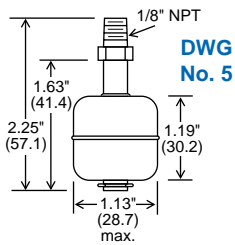
Cutaway Showing Sash Shield Operation



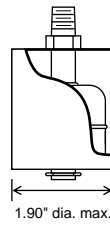
DWG No. 3



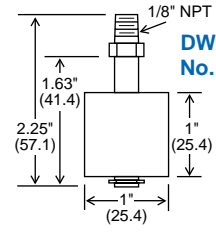
DWG No. 4



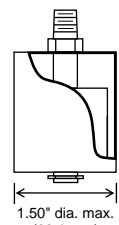
DWG No. 5



Cutaway Showing Sash Shield Operation

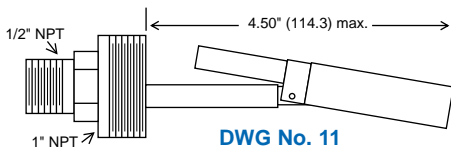


DWG No. 6

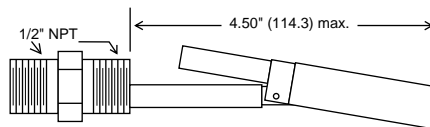


Cutaway Showing Sash Shield Operation

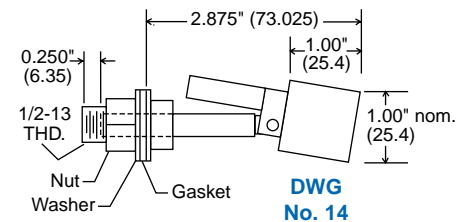
Side-Mounted Switches



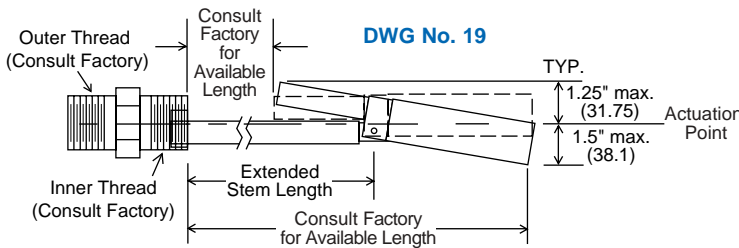
DWG No. 11



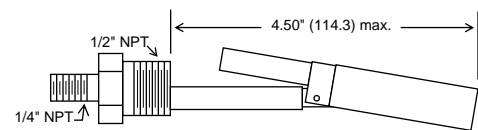
DWG No. 12



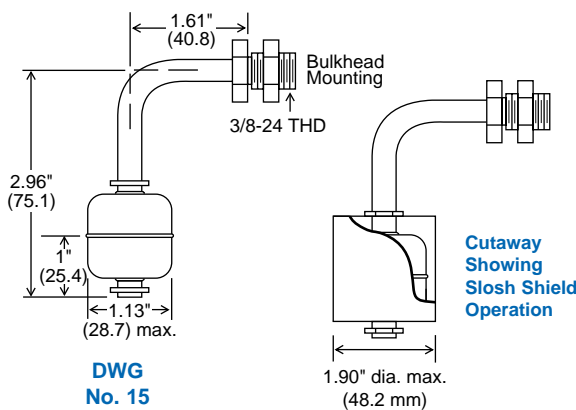
DWG No. 14



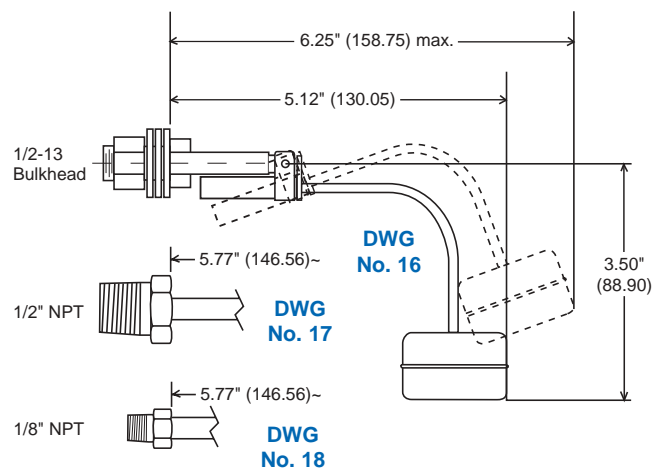
DWG No. 19



DWG No. 13



DWG No. 15



DWG No. 16

DWG No. 17

DWG No. 18



M Series Plastic Liquid Level Switches

Full-size Switches

MODEL NO.	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	FITTING	** APPROVALS
M8800	MS8800	28	PP	PP	105°	100	0.75	60	22 ga. MTW 24"	1/4" NPT	A,B,C,D
M8800-SPDT	MS8800-SPDT	28	PP	PP	105°	100	0.75	25**	22 ga. Teflon 24"	1/4" NPT	A,B,C,D
M8801	MS8801	28	PP	PP	105°	100	0.75	100	22 ga. MTW 24"	1/4" NPT	A,B,C,D
M8800-PR	MS8800-PR	28	PP	PP	105°	100	0.75	360	22 ga. MTW 24"	1/4" NPT	C,D
M7800*	MS7800*	28	Buna-N	PBT	105°	150	0.45	60	22 ga. Teflon 24"	1/4" NPT	A,B,C
M7800-SPDT*	MS7800-SPDT*	28	Buna-N	PBT	105°	150	0.45	25**	22 ga. Teflon 24"	1/4" NPT	A,B,C
M7801*	MS7801*	28	Buna-N	PBT	105°	150	0.45	100	22 ga. Teflon 24"	1/4" NPT	A,B,C
M8060-PR	MS8060-PR	28	PP	CPVC	105°	100	0.75	360	22 ga. MTW 24"	1/4" NPT	C
M9800	MS9800	28	Kynar	Kynar	105°	15	0.75	60	22 ga. Teflon 24"	1/4" NPT	B,C,D
MSB7800*	–	29	Buna-N	PBT	105°	150	0.45	60	Nylon Cable 6 ft.	–	–
MSB8800	–	29	PP	PP	105°	100	0.75	60	PP Cable 6 ft.	–	–

* Not for use in hot water at temperatures above 65°C ** SPDT switch operation PP=Polypropylene

Miniature Switches

MODEL	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	FITTING	** APPROVALS
M8000	MS8000	30	PP	PP	105°	100	0.80	30	22 ga. MTW 24"	1/8" NPT	A,B,C,D
M4008	MS4008	30	Buna-N	PP	105°	150	0.45	30	22 ga. MTW 24"	1/8" NPT	A,B,C
M7000*	MS7000*	30	Buna-N	PBT	105°	150	0.45	30	22 ga. Teflon 24"	1/8" NPT	A,B,C
M9000	MS9000	30	Kynar	Kynar	105°	15	0.85	30	22 ga. Teflon 24"	1/8" NPT	A,B,C,D

* Not for use in hot water at temperatures above 65°C PP=Polypropylene

Side-Mounted Switches

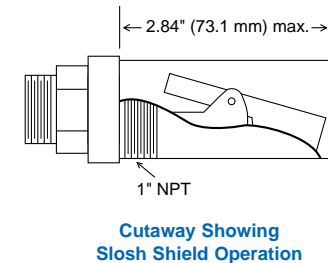
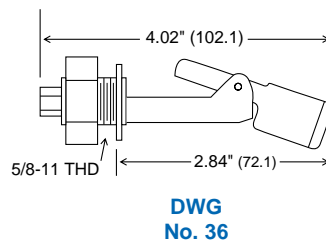
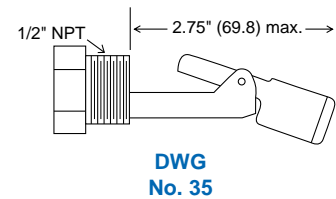
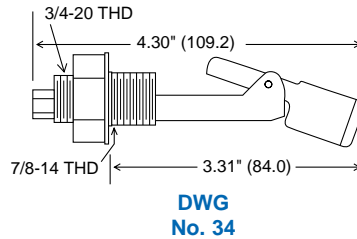
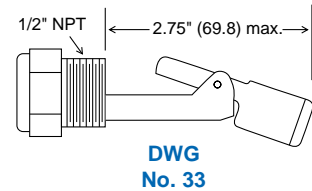
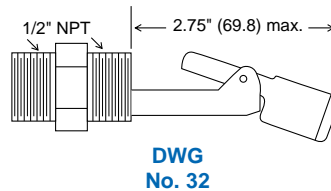
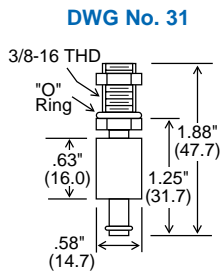
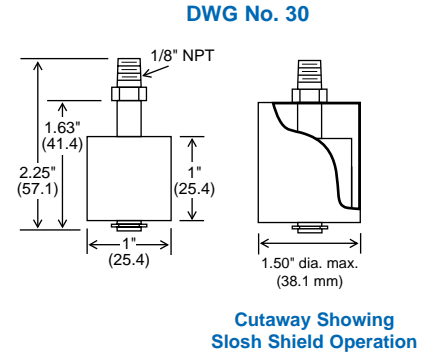
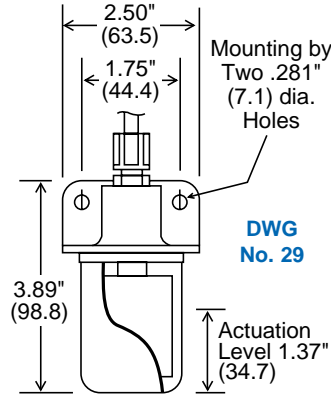
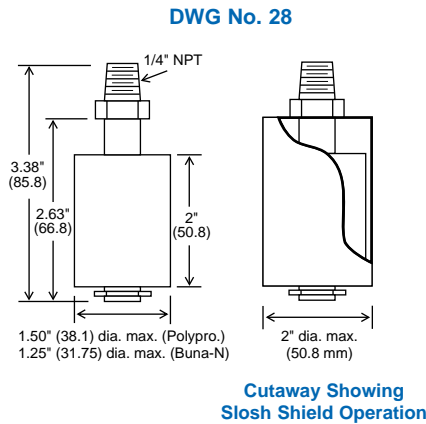
MODEL NO.	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	** APPROVALS
M8700	M8705	32	PP	PP	105°	100	0.60	30	22 ga. MTW 24"	A,B,C,D
M8725	MS8725	33	PP	PP	105°	100	0.60	30	22 ga. MTW 24"	A,B,C,D
M8740	–	34	PP	PP	105°	100	0.60	30	22 ga. Teflon 24"	A,B,C,D
M8750	M8755	35	PP	PP	105°	100	0.60	30	22 ga. MTW 24"	A,B,C,D
M8790	–	36	PP	PP	105°	100	0.60	30	22 ga. MTW 24"	A,B,C,D
M7700*	M7705*	32	PBT	PBT	150°	100	0.70	30	22 ga. Teflon 24"	A,B,C
M7725*	MS7725*	33	PBT	PBT	150°	100	0.70	30	22 ga. Teflon 24"	A,B,C
M7740*	–	34	PBT	PBT	150°	100	0.70	30	22 ga. Teflon 24"	A,B,C
M7750*	M7755*	35	PBT	PBT	150°	100	0.70	30	22 ga. Teflon 24"	A,B,C
M7790*	–	36	PBT	PBT	150°	100	0.70	30	22 ga. Teflon 24"	A,B,C
M9700	M9705	32	Kynar	Kynar	105°	100	0.93	30	22 ga. Teflon 24"	A,B,C,D

* Not for use in hot water at temperatures above 65°C PP=Polypropylene

Subminiature Switches

MODEL	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	FITTING	** APPROVALS
M3326	-	31	PP	PP	105°	50	0.85	15	22 ga. Teflon 24"	3/8-16	A,B,C
M3326-NO	-	31	PP	PP	105°	50	0.85	15	22 ga. Teflon 24"	3/8-16	A,B,C

PP= Polypropylene



Full-Size Switches

MODEL NO.	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	FITTING	** APPROVALS
M4300	MS4300	21	Buna-N	Brass	105°	150	0.45	60	22 ga. MTW 24"	1/4" NPT	A,B,C
M4300-SPDT	MS4300-SPDT	21	Buna-N	Brass	105°	150	0.45	25*	22 ga. Teflon 24"	1/4" NPT	A,B,C
M4301	MS4301	21	Buna-N	Brass	105°	150	0.45	100	22 ga. MTW 24"	1/4" NPT	A,B,C
M5400	MS5400	21	316SS	Brass	200°	200	0.55	60	22 ga. Teflon 24"	1/4" NPT	A,B,C
M5400-SPDT	MS5400-SPDT	21	316SS	Brass	200°	200	0.55	25*	22 ga. Teflon 24"	1/4" NPT	A,B,C
M5401	MS5401	21	316SS	Brass	200°	200	0.55	100	22 ga. Teflon 24"	1/4" NPT	A,B,C
M8400	MS8400	21	PP	Brass	105°	100	0.75	60	22 ga. MTW 24"	1/4" NPT	A,B,C
M8400-SPDT	MS8400-SPDT	21	PP	Brass	105°	100	0.75	25*	22 ga. Teflon 24"	1/4" NPT	A,B,C
M8401	MS8401	21	PP	Brass	105°	100	0.75	100	22 ga. MTW 24"	1/4" NPT	A,B,C

* SPDT switch operation PP=Polypropylene

Miniature Switches

MODEL	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	FITTING	** APPROVALS
M4500	MS4500	22	Buna-N	Brass	200°	300	0.70	30	22 ga. Teflon 24"	1/8" NPT	A,B,C
M5040	MS5040	22	316SS	Brass	105°	150	0.45	30	22 ga. Teflon 24"	1/8" NPT	A,B,C
M8040	MS8040	22	PP	Brass	105°	100	0.80	30	22 ga. Teflon 24"	1/8" NPT	A,B,C

PP=Polypropylene

Side-Mounted Switches

MODEL	With SLOSH SHIELD	DWG NO.	FLOAT MATL	STEM MATL	MAX TEMP (CELSIUS)	MAX PSIG	FLOAT SG	NOMINAL VA	LEAD WIRES	** APPROVALS
M4010	MS4010	23	Buna-N	Brass	105°	100	0.45	30	22 ga. Teflon 24"	A,B,C

