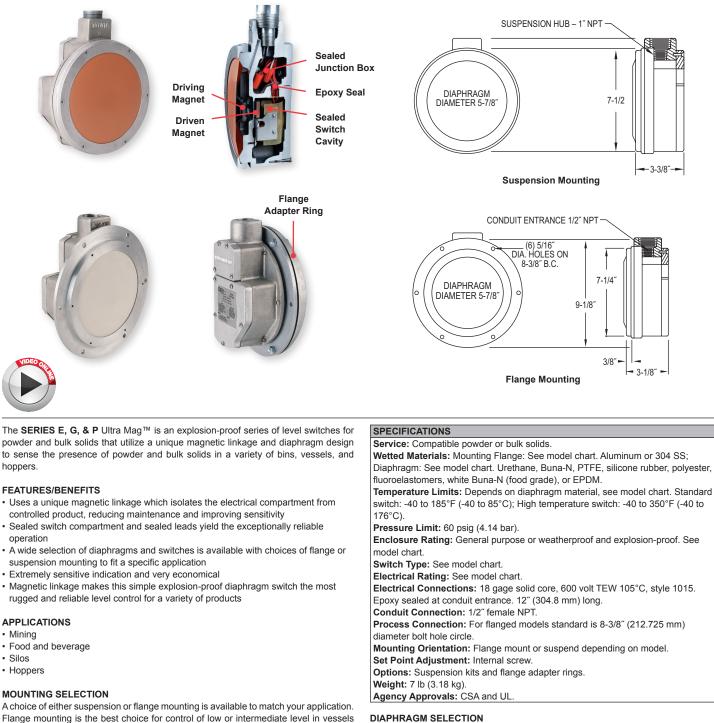
Dwyer. SERIES E, G, & P | PROXIMITY® BY DWYER EXPLOSION-PROOF LEVEL SWITCHES FOR POWDER & BULK SOLIDS



A wide variety of diaphragms are available to match product bulk density, flowability, abrasiveness and temperature requirements while providing maximum sensitivity. The best choice for vessels subject to pressure or vacuum is "breathable" fabric (P Series), requiring no venting. Non-porous elastomer (G Series) type diaphragms are the best choice for more abrasive product and broader temperature range applications. Venting is always required with the G series and if used in pressurized vessels, venting to the tank atmosphere is required to allow pressure equalization. A slide rule "Diaphragm Selector" is available from the factory to help you choose the diaphragm best suited to your application.

for flange which is the second digit in the part number.

operation with "bridging" product.

containing granular product that does not "bridge", "rathole", or otherwise build up on

vessel walls. Choose suspension mounting for high level in vessels and for better

Note: The mounting configuration is represented by the letter "S" for suspension or "F"

evel Switches,

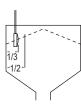
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DIAPHRAGM SELECT	Suggested		Suggested
Product	Diaphragm*	Product	Diaphragm*
Abrasive	3D	Polypropylene Powder	7A
Aggregate	3D	Polypropylene Resin	17
Alumina	3D	Polystyrene Beads	3D
Ash, Dry	3D	PotAsh	3D
Baking Powder	7B	Powdered Metal	3D
Baking Soda	7B	Powdered Ore	3D
Barite	3D	PVC Powder	7A
Bark, Ground	6G	PVC Resin	17
Barley, Ground or Meal	17	Rice	17
Barley, Whole	4B	Rye	3D
Beans, Edible	4B	Salt	3D
Bentonite	3D	Sand, Dry	3D
Bond, Foundry	17	Sand, Dry Silica	3D
Carbon Black	7A	Sand, Foundry Prepared	5A
Cement, Klinker	8A	Sand, Shake Out	3D
Cement, Portland	4B	Sawdust, Dry	6G
Chips, Hogged Fuel	6G	Sea Coal	3D
Coal	3D	Sesame Seed	3D
Compost	5A	Shale, Crushed	3D
Core Sand, Foundry	3D	Silica, Flour	3D
Corn, Shelled	8A	Sludge, Sewage Dried	1A
Diatomaceous Earth	7A	Sludge, Sewage, Ground	1A
Drill Mud	3D	Soda Ash	3D
Flour	7B	Soybeans, Cracked	3D
Fly Ash	3D	Soybean, Flake	7A
Glass Batch	3D	Soybean, Flour	7A
Gravel	3D	Sovbean Meal	3D
Iron Ore, Crushed	3D	Soybean, Whole	3D
Kaolin Clay	3D	Sugar Beets, Whole	6H
Lime, Hydrated	5A	Sugar Refined	7B
Lime, Stone	3D	Sunflower Seed	7A
Oats	4B	Taconite Pellets	3D
Peanuts in Shell	7A	Talcum Powder	3D
Peanuts, Shelled	3D	Walnut Shells, Crushed	3D
Perlite	7A	Wheat	8A
Phosphate, Rock	3D	Wheat, Wet	5A
Polyethylene Powder	7A	Wood, Chips	6G
Polyethylene Resin	17	Wood, Dust	6G
Polypropylene Fluff	7A		
71 17		h characters in model num	ber

Dwyer.

SUSPENSION MOUNTING

Suspension mounting is normally used for high level monitoring in vessels. For product over 20 lb/ft³, the level switch (diaphragm face) should be located about 1/3 of the distance from the vessel wall to the point of entry of the product. For product less than 20 lb/ft³, the unit should be located closer to the point of entry of the product, about 1/2 the distance from the vessel wall to the point of entry. Pressure required to depress the diaphragm and trip the switch is in the range of 5 to 15 oz in the horizontal direction (perpendicular to the diaphragm). Suspension mounting provides the easiest vertical adjustment capability, greatest sensitivity and best maintenance conditions.



SUSPENSION ASSEMBLY KITS

SUSPENSION ASSEMBLY KITS Pre-assembled kits are available from the factory, or you can build your own kits using standard pipe fittings shown in our Proximity Bill of Materials (Form No. 101). Pipes and fittings are normally galvanized steel, but aluminum and SS pipes and fittings are available. Units are secured to a steel cover plate that rests on a rectangular steel flange welded into the top of the vessel. Aluminum and stainless coverplates and flanges are also available. Standard 48[°] L x 1[°] pipe provides working depth (WD) up to 48[°]. Longer pipe (to provide greater WD) is available. GS Series switches have upper (L1 = 28[°] standard) and lower (L2 = 20[°] standard) 1[°] pipes, with a tee (for stilling pot) in between. A stilling pot is required to equalize pressure and keep dirt from building up behind the diaphragm. PS series require a 1/2[°] conduit in 1[°] suspension pipe for explosion-proof applications. The 1/2[°] conduit (56[°] standard length) is a standard part of the GS series assembly. of the GS series assembly.

MODEL CHART - ALUMINUM FLANGE ADAPTER RINGS						
Model	Tank Outside Diameter	Model	Tank Outside Diameter			
126-009 126-010 126-011 126-012 126-013 126-014 126-015	15" 30" 36" 42" 48" 60" 72"	126-016 126-017 126-018 126-019 126-020 126-021	84″ 96″ 10′ 12′ 14′ 24′			

MODEL CHART - "P" AND "G" SERIES SUSPENSION ASSEMBLY KITS Model Description "P Series suspension assembly includes 1/2" pipe (56" std length), 1" pipe (48" std length), 1" pipe coupling, 1-1/2 NPT strain relief on 1" pipe. Galvanized mild steel pipe, explosion proof, 901-409 standard. "G" Series suspension assembly includes 1/2" pipe (56" std length), watertight strain relief and 1" coupling, upper 1" pipe (28" std length), lower 1" pipe (20" std length), strain relief with 1-1/2" NPT, 1"x1"x1" Tee, 1" street ell and 1" pipe-4" long stilling pot. 901-412

NPT, 1^{*}x1^{*}x1⁻ Tee, 1^{*} street ell and 1^{*} pipe-4⁺ long stilling pot. Galvanized steel pipe, explosion proof, standard. Note: Specials include aluminum or stainless steel assemblies. Flange port

and cover assemblies are sold separately. Consult factory for details.

Example	E	-X	-G	-S	-D	-3D	-A		E-X-G-S-D-3D-A*
Certification 1	E								Explosion-proof ultra mag™ level switches
Certification 2		EX X							Explosion-proof (UL & CSA) Class I, Div I & II, Groups C & D; Class II, Div I & II, Groups E, F, & G Explosion-proof (CSA) Class II, Div I & II, Groups F & G General purpose (no code)
Basic Magnetic Pressure Sensing Series			G P						Elastomeric diaphragm-venting required*. (Diaphragms 1A - 8A) Breathable fabric diaphragm-no venting required. (Diaphragms 16 & 17 only)
Mounting (Top = Suspension/ Side = Flanged)				S F T					Suspended (G series require suspension vent fittings)* Subtract 10 lbs./cu. ftgreater sensitivity Flanged, aluminum standard Flanged, 304 SS
Housing Material					D A E				Aluminum Aluminum, anodized Aluminum, epoxy coated
Diaphragm Material (Temperature) (Bulk Density)						3D 3E 4B 5A 6D 6E 6G 7A 7B 8A 16 17			Urethane, .031" thick, (10 to 150° F), (> 30 lb/ft ³) Urethane, orange, .062" thick, (10 to 150° F), (> 90 lb/ft ³) Buna-N, black, .020" thick, (-20 to 212° F), (20 to 90 lb/ft ³) PTFE/glass on silicone rubber, .024" thick, (-40 to 350° F), (> 35 lb/ft ³) Silicone rubber on glass, red, .032" thick, (-40 to 350° F), (> 90 lb/ft ³) "6C" w/urethane overlay, (-40 to 350° F), (wood chips diaphragm with "A2") Silicone rubber on glass (White), .015" thick, (-40 to 350° F), (5 to 40 lb/ft ³) Buna-N (food applications-white), .060" thick, (-20 to 212° F), (30 to 90 lb/ft ³) Polyester filter fabric, white, 150 micron permeability, (-30 to 275° F), (30 to 90 lb/ft ³)
Switch Type							A T V G		Standard, SPDT, 15 A @ 125, 250 VAC High temp, SPDT, 5 A @ 125, 250 VAC; 24 VDC** High vibration, SPDT, 15 A @ 125, 250 VAC Gold contacts, SPDT, 1 A @ 125 VAC, 1/2 A @ 24 VDC
Special Controls									Wood chip control (with "6G" diaphragm only) High sensitivity actuator (for very light product)
*GS - G series suspended controls require suspension vent fittings. **Non-UL/CSA listed									
Note: The "EX" prefix must he added to the 6-digit model number for "explosion-proof standard". General purpose units do not require the "EX" or other prefix.						mber for "explosion-proof standard". General purpose units do not require the "EX" or other prefix.			

LEVEL