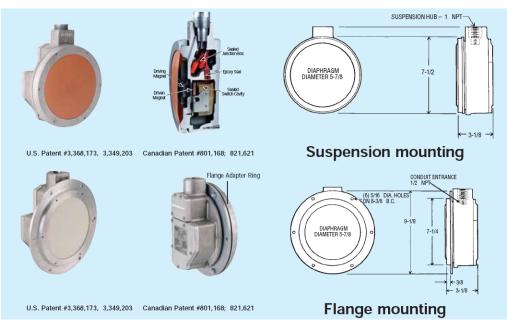
MODEL DLS ULTRA MAGTM LEVEL SWITCH



Perfect for Sensing Bulk Solids and Powders





Bulk Pro Systems Model DLS Diaphragm Level Switch is ideal for level control of bulk solids and powders. The DLS Diaphragm Level Switch has a unique, patented Magnetic Linkage that isolates the electrical compartment from the controlled product, reducing maintenance and improving sensitivity. The sealed switch compartment and sealed leads yield the upmost in reliable operation. A wide selection of diaphragms and switches are available with choices of flange or suspension mounting to fit your specific application. The dry level Ultra MagTM level switch is extremely sensitive and very economical. The magnetic linkage makes this simple explosion proof diaphragm switch the most rugged and reliable level control for a variety of products.

Mounting Selection: A choice of either suspension or flange mount is available to apply to your application. Flange mounting is the best choice for control of low and intermediate level in vessels containing granular product that does not "bridge", "rat hole" or otherwise build-up on the vessel walls. Choose suspension mounting for high level in vessels and for better operation with "bridging" product. See next page for more information on suspension and flange mounting kits. Note that the Mounting configuration is represented by the letter "S" for suspension or "F" for flange which is the second digit in the part number on the next page.

Diaphragm Selection: 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 products and broader temperature range applications. Venting is always required with the G Series and is used in pressurized vessels, venting to the tank pressure 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 you application.

SPECIFICATIONS:

Service: Compatible with bulk solids or powders.

Wetted Materials:

Mounting flange: See model chart. Aluminum or 304 SS Diaphragm: See model chart. Urethane, Buna-N, PTFE, Silicone Rubber, Polyester, Fluoroelastomers, White Buna (food grade) or EPDM.

Temperature Limits: Depends on diaphragm material, see model chart. Standard switch: -40 to 185°F (-40 to 85°C), High temperature switch: -40 to 350°F (-40 to 176°C).

Pressure Limit: 60 PSIG (4.14 bar)

Enclosure Rating: general purpose or weatherproof and ex-

plosion proof. See model chart. **Switch Type:** See model chart. **Electrical Rating:** See model chart

Electrical Connections: 18 guage solid core, 600 volt TEW

105°C, style 1015. Epoxy sealed at conduit entrance.

12" (304.8mm) long.

Conduit Connection: 1/2" female NPT

Process Connection: For flanged model standard is 8-

3/8" (212.725mm) diameter bolt hole circle.

Mounting Orientation: Flange mount or suspend depending

on application.

Set-Point Adjustment: Internal screw

Weight: 7lb (3.18 kg)

Options: Suspension kits and flange adapter rings

Agency Approvals: UL and CSA

SELECTION GUIDE

Diaphragm Selection Guide

	Suggested		Suggested		Suggested
Product	Diaphragm*	Product	Diaphragm*	Product	Diaphragm*
Abrasive	3D	Gravel	3D	Sand, Four	ndry Prepared5A
Aggregate	3D	Iron Ore, C	rushed3D	Sand, Shak	ke Out3D
Alumina	3D	Kaolin Clay	3D	Sawdust, E	Dry6G
Ash, Dry	3D	Lime, Hydr	ated5A	Sea Coal	3D
Baking Powder	r7B	Lime, Stone	e3D	Sesame Se	ed3D
Baking Soda	7В		4B	Shale, Crus	shed3D
Barite	3D	Peanuts in	Shell7A	Silica, Flour	r3D
Bark, Ground .	6G	Peanuts, S	helled3D	Sludge, Se	wage Dried1A
Barley, Ground	or Meal17	Perlite	7A	Sludge, Se	wage, Ground1A
Barley, Whole	4B	Phosphate	, Rock3D		3D
Beans, Edible,.		Polyethyler	ie Powder7A		Cracked3D
Bentonite	3D	Polyethyler	ıe Resin17	Soybean, F	Take7A
Bond, Foundry			ene Fluff7A		lour,7A
Carbon Black.	7A	Polypropyle	ene Powder7A		leal3D
Cement, Klinke	er8A	Polypropyle	ene Resin17		Vhole3D
	nd4B	Polystyrene	e Beads3D		ts, Whole6H
Chips, Hogged			3D		ned7B
Coal	3D	Powdered	Metal3D	Sunflower :	Seed7A
	5A	Powdered	Ore3D		ellets3D
	undry3D		er7A		wder3D
Corn, Shelled.	A8	PVC Resin	17	Walnut She	ells, Crushed3D
Diatomaceous	Earth7A		17	Wheat	A8A
Drill Mud		Rye	3D	Wheat, We	t5A
Flour			3D		ps6G
Fly Ash			3D	Wood, Dus	t6G
Glass Batch	3D	Sand, Dry :	Silica3D		

^{*}Diaphragm codes become 4th and 5th characters in model number.

Suspension Mounting is normally used for high level mounting in vessels. For product over 20 lb/ft3, the level switch (diaphragm face) should be located about 1/8 of the distance from the vessel wall to the fill point of the product. For product less than 20 lb/ft3, the unit should be located closer to the fill point of the product. One half the distance from the vessel wall to the fill point. Pressure required to depress the diaphragm and trip the switch is in the range of 5-15 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: Pre-assembled kits are available from the factory or you can build your own kits using standard pipe fittings. Pipes and fittings are normally galvanized steel, but aluminum and stainless steel pipes and fittings are available. Units pictured on the previous page are secured to a steel cover plate that rests on a rectangular steel flange welded to the vessel. Aluminum and stainless cover plates and flanges are also available. Standard 48" long x 1" pipe provides a working depth up to 48", longer pipe is available. GS series switches have upper (L1 = 28" standard) and lower ($L^1 = 20$ " standard) 1" pipes, with a tee (for stilling pot) in between. A stilling pot is required to equalize the 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.

Complete Model Chart Consult factory for pricing on UltraMag⁻ switches

PREFIX - Certification X - Explosion-proof (UL & CSA) Class II, Div I & II, Groups C & D; Class II, Div I & II, Groups E, F, & G. X - Explosion-proof (UC & CSA) Class II, Div I & II, Groups F & G. General Purpose (No Code) 1ST DIGIT-Basic Magnetic Pressure Sensing Series G - Elastomenic Diaphragm-Venting required*. (Diaphragms 1A - 8A) P - Breathable Fabric Diaphragm-No venting required*. (Diaphragms 16 & 17 only) 2ND DIGIT-MOUNTING (Top = Suspension/Side-Flanged) S - Suspended G Series require suspension vent fittings)* Subtract 10 lbs./cu.ftgreater sensitivity. F - Flanged, Aluminum standard T - Flanged, 304 SS 3RD DIGIT-HOUSING MATERIAL D - Aluminum Anodized E - Aluminum, Epoxy Coated 4TH a STH DIGITS-DIAPHRAGM MATERIAL (TEMPERATURE) (BULK DENSITY) TA - Hucroelastomer, black, .025* thick, (25 to 300*F), (>30 lbs/cu. ft.) G 2 A - Neoprene, black, .025* thick, (30 to 220*F), (>30 lbs/cu. ft.) G 3 D - Urethane, .031* thick, (10 to 150*F), (>30 lbs/cu. ft.) G 3 C - Urethane, .031* thick, (10 to 150*F), (>30 lbs/cu. ft.) G 3 F - Urethane, .030* elastomer w/bumper for removable overlays, orange, (10 to 150*F), (>30 lbs/cu. ft.) G 4 B - Buna-N, black, .020* thick, (-20 to 212*F), (20 to 90 lbs./cu. ft.) G 5 A - PITE/Glass on Sil Rubber, .024* thick, (-40 to 350*F), (>35 lbs./cu. ft.) G 6 C - SC* w/brethane overlay, .062* thick, (-40 to 350*F), (>35 lbs./cu. ft.) G 6 C - SC* w/brethane overlay, .062* thick, (-40 to 350*F), (>50 lbs/cu. ft.) G 7 A - Silicone Rubber on Glass, red, .02* thick, (-40 to 350*F), (50 to 90 lbs/cu. ft.) G 6 C - SC* w/brethane overlay, .40* thick, .40* to 350*F), (50 to 90 lbs./cu. ft.) G 7 A - Silicone Rubber on Glass, red, .02* thick, .40* to 350*F), (50 to 90 lbs./cu. ft.) G 7 A - Silicone Rubber on Glass (White), .015* thick, .40* to 350*F), (50 to 90 lbs./cu. ft.) G 7 A - Silicone Rubber on Glass (White), .015* thick, .40* to 350*F), (50 to 90 lbs./cu. ft.) G 7 A - Silicone Rubber on Glass (White), .015* thick, .40* to 350*F), (50 to 90 lbs./cu. ft.) G 7				
X = Explosion-proof (CSA) Class II, Div I & II, Groups F & G. General Purpose (No Code) IST DIGIT-Basic Magnetic Pressure Sensing Series G = Elastomeric Diaphragm-Venting required*. (Diaphragms 1A - 8A) P = Breathable Fabric Diaphragm-No venting required (Chaphragms 16 & 17 only) 2ND DIGIT-MOUNTING (Top = Suspension/Side=Flanged) S = Suspended (G series require suspension vent fittings)* Subtract 10 lbs./cu. ftgreater sensitivity. F = Flanged, Aluminum standard T = Flanged, Aluminum standard T = Flanged, 304 SS 3RD DIGIT-HOUSING MATERIAL D = Aluminum, Anodized E = Aluminum, Epoxy Coated 4TH & STH DIGITS-DIAPHRAGM MATERIAL (TEMPERATURE) (BULK DENSITY) T A = Fluoroelastomer, Diack, 025* thick, (25 to 300*F), (>30 lbs/cu. ft.) G 3 D = Urethane, 031* thick, (10 to 150*F), (>30 lbs/cu. ft.) G 3 E = Urethane, 031* thick, (10 to 150*F), (>30 lbs/cu. ft.) G 3 E = Urethane, 031* op. 602* thick, (10 to 150*F), (>90 lbs/cu. ft.) G 4 B = Bura-N, black, 0.20* thick, (-20 to 212*F), (20 to 90 lbs./cu. ft.) G 5 A = PTEF/Glass on Sil Rubber, 024* thick, (-40 to 350*F), (>30 lbs/cu. ft.) G 6 D = Silicone Rubber on Glass, red, 0.32* thick, (-40 to 350*F), (>90 lbs/cu. ft.) G 6 C = Silicone Rubber on Glass, red, 0.32* thick, (-40 to 350*F), (>90 lbs/cu. ft.) G 6 G = Silicone Rubber on Glass, red, 0.32* thick, (-40 to 350*F), (>90 lbs/cu. ft.) G 7 A = Sitone Rubber on Glass (White), 0.15* thick, (-40 to 350*F), (>90 lbs/cu. ft.) G 7 A = Sitone Rubber on Glass (White), 0.15* thick, (-40 to 350*F), (so to 90 lbs./cu. ft.) G 7 A = Sitone Rubber on Glass (White), 0.15* thick, (-40 to 350*F), (>10 to 150*F), (>90 lbs/cu. ft.) G 8 A = EPCM, black, 0.36* thick, (-40 to 275*F), (40 to 90 lbs./cu. ft.) G 7 A = Sitone Rubber on Glass (White), 0.15* thick, (-40 to 350*F), (>00 to 275*F), (30 to 90 lbs./cu. ft.) F B = Buna-N (Food Applications-white), 050* thick, (-20 to 212*F), (30 to 90 lbs./cu. ft.) G 7 A = Sitone Rubber on Glass (White), 0.15* thick, (-40 to 90 lbs./cu. ft.) G 8 A = EPCM, black, 050* thick, (-40 to 275*F), (40 to 90				
- General Purpose (No Code) IST DIGIT-Rasic Magnetic Pressure Sensing Series G - Elastomeric Diaphragm-Neming required", (Diaphragms 1A - 8A) P - Breathable Fabric Diaphragm-No venting required. (Diaphragms 16 & 17 only) 2ND DIGIT-MOUNTING (Top = Suspension/Side=Flanged) S - Suspended (G series require suspension vent fittings)* Subtract 10 lbs./cu.ftgreater sensitivity. F - Flanged, Aluminum standard T - Flanged, Aluminum, Anodized E - Aluminum, Anodized ATH & STH DIGITS-DIAPHRAGM MATERIAL (TEMPERATURE) (BULK DENSITY) TA - Fluoroelastomer, black, 025* thick, (25 to 300*F), (>30 lbs/cu. ft.) G A - Neoprene, black, 025* thick, (25 to 300*F), (>30 lbs/cu. ft.) G A - Neoprene, black, 025* thick, (-30 to 220*F), (>30 lbs/cu. ft.) G B - Urethane, 031* thick, (10 to 150*F), (>30 lbs/cu. ft.) G B - Urethane, orange, .062* thick, (-10 to 150*F), (>90 lbs/cu. ft.) G A - PIFF/Class on Sil Rubber, .024* thick, (-40 to 350*F), (>35 lbs./cu. ft.) G A - PIFF/Class on Sil Rubber, .024* thick, (-40 to 350*F), (>35 lbs./cu. ft.) G B - Silicone Rubber on Glass, red, .032* thick, (-40 to 350*F), (>35 lbs./cu. ft.) G C 6 - "GC* Wulterhane overlay, (-40 to 350*F), (5 to 30 lbs/cu. ft.) G A - Silicone Rubber on Glass, red, .032* thick, (-40 to 350*F), (5 to 40 lbs./cu. ft.) G A - Buna-N (Food Applications-white), .060* thick, (-20 to 212*F), (30 to 90 lbs./cu. ft.) G A - Silicone Rubber on Glass (White), .015* thick, (-40 to 350*F), (5 to 40 lbs./cu. ft.) G A - Silicone Rubber on Glass (White), .015* thick, (-20 to 212*F), (30 to 90 lbs./cu. ft.) G A - Silicone Rubber on Glass (White), .015* thick, (-30 to 275*F), (30 to 90 lbs./cu. ft.) G A - Silicone Rubber on Glass (White), .015* thick, (-30 to 275*F), (30 to 90 lbs./cu. ft.) G H B Buna-N (Food Applications-white), .060* thick, (-30 to 275*F), (30 to 90 lbs./cu. ft.) G H B Buna-N (Food Applications-white), .060* thick, (-30 to 275*F), (30 to 90 lbs./cu. ft.) G H B Bina-N (Food Applications-white), .060* thick, (-30 to 275*F), (30 to 90 lbs./cu. ft.) G				
ST DIGIT-Basic Magnetic Pressure Sensing Series G = Elastomenic Diaphragm-No venting required." (Diaphragms 1A - 8A) P - Breathable Fabric Diaphragm-No venting required. (Diaphragms 16 & 17 only)				
G - Elastomeric Diaphragm-Venting required.", (Diaphragms 14 - 8A) P - Breathable Fabric Diaphragm-No venting required. (Diaphragms 16 & 17 only) S - Breathable Fabric Diaphragm-No venting required. (Diaphragms 16 & 17 only) S - Suspended (G series require suspension/Side=Flanged) S - Suspended (G series require suspension vent fittings)* Subtract 10 lbs./cu. ftgreater sensitivity. F - Flanged, Aluminum standard T - Flanged, Aluminum standard T - Flanged, Ost Side (S S S S S S S S S S S S S S S S S S S	1 7 7			
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S - Suspended (G series require suspension vent fittings)* Subtract 10 lbs./cu. ftgreater sensitivity. F - Flanged, Aluminum standard T - Flanged, 304 SS 3RD DIGIT-HOUSING MATERIAL D - Aluminum, Anodized E - Aluminum, Anodized E - Aluminum, Epoxy Coated	P = Breathable Fabric Diaphragm-No venting required. (Diaphragms 16 & 17 only)			
F - Flanged, Aluminum standard T - Flanged, 304 SS				
T = Flanged, 304 SS				
SRD DIGIT-HOUSING MATERIAL D = Aluminum				
D = Aluminum A = Aluminum, Anodized E = Aluminum, Anodized E = Aluminum, Epoxy Coated 4TH & STH DIGITS-DIAPHRAGM MATERIAL (TEMPERATURE) (BULK DENSITY) T A = Fluoroelastomer, black, .025" thick, (25 to 300"F), (>30 lbs/cu. ft.) 3 D = Urethane, black, .025" thick, (30 to 220"F), (>30 lbs/cu. ft.) 3 D = Urethane, orange, .062" thick, (10 to 150"F), (>90 lbs/cu. ft.) 3 E = Urethane, orange, .062" thick, (10 to 150"F), (>90 lbs/cu. ft.) 4 B = Buna-N, black, .020" thick, (10 to 150"F), (>90 lbs/cu. ft.) 5 A = PTFE/Glass on Sil Rubber, .024" thick, (-40 to 350"F), (>35 lbs/cu. ft.) 6 D = Silicone Rubber on Glass, red, .032" thick, (-40 to 350"F), (>90 lbs/cu. ft.) 6 E = Silicone Rubber on Glass, red, .032" thick, (-40 to 350"F), (>90 lbs/cu. ft.) 6 G = "6C" wiDumper for removable overlays 901-120, -132, -134, gray, (-40 to 350"F), (90 lbs/cu. ft.) 7 A = Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (50 to 40 lbs/cu. ft.) 7 B = Buna-N (Food Applications-white), .060" thick, (-40 to 350"F), (30 to 90 lbs/cu. ft.) 8 A = EPOM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu. ft.) 17 Polyester Nitex, white, 15 micron permeability, (-30 to 275"F), (30 to 90 lbs/cu. ft.) 8 T = Standard, SPOI, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High Temp, SPOI, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High tibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VAC; 24 VDC("") V = High vibration, SPOIT, 15A ⊕ 125, 250 VA				
A - Aluminum, Anodized E - Aluminum, Epoxy Coated 4TH & STH DIGITS-DIAPHRAGM MATERIAL (TEMPERATURE) (BULK DENSITY) TA - Fluoroelastomer, black, .025" thick, (25 to 300"F), (>30 lbs/cu. ft.) 2 A - Neoprene, black, .025" thick, (-30 to 220"F), (>30 lbs/cu. ft.) 3 D - Urethane, .031" thick, (10 to 150"F), (>30 lbs/cu. ft.) 3 E - Urethane, .73D" elastomer w/bumper for removable overlays, orange, (10 to 150"F), (>90 lbs/cu. ft.) 4 B - Buna-N, black, .020" thick, (-20 to 212"F), (20 to 90 lbs./cu. ft.) 5 A - PTEF/Glass on Sil Rubber, .024" thick, (-40 to 350"F), (>35 lbs./cu. ft.) 6 D - Silicone Rubber, gray, .082" thick, (-40 to 350"F), (>30 lbs/cu. ft.) 6 G - Silicone Rubber on Glass, red, .032" thick, (-40 to 350"F), (>90 lbs/cu. ft.) 6 G - Silicone Rubber on Glass, red, .032" thick, (-40 to 350"F), (>90 lbs/cu. ft.) 6 G - Silicone Rubber on Glass (White), .015" thick, (-40 to 350"F), (500 lbs/cu. ft.) 7 A - Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (500 lbs/cu. ft.) 7 B - Buna-N (Food Applications-white), .060" thick, (-20 to 212"F), (30 to 90 lbs./cu. ft.) 8 A - EPDM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu. ft.) 1 G - Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275"F), (30 to 90 lbs./cu. ft.) 6 T - High Temp, SPDT, 5A @ 125, 250 VAC; 24 VDC("") 7 High vibration, SPDT, 15A @ 125, 250 VAC; 24 VDC("") 7 High vibration, SPDT, 15A @ 125, 250 VAC; 24 VDC("") 7 High vibration, SPDT, 15A @ 125, 250 VAC; 24 VDC("") 8 JEFIX-SPECIAL CONTROLS 8 JEFIX-SPECIAL CONTROLS 8 JEFIX-SPECIAL CONTROLS 9 JEFIX-S				
4TH & STH DIGITS-DIAPHRAGM MATERIAL (TEMPERATURE) (BULK DENSITY) T A - Fluoroelastomer, black, .025" thick, (25 to 300"F), (>30 bs/cu. ft.) 3 A - Neoprene, black, .025" thick, (10 to 150"F), (>30 bs/cu. ft.) 3 D - Urethane, .031" thick, (10 to 150"F), (>30 bs/cu. ft.) 3 E - Urethane, .031" thick, (10 to 150"F), (>30 bs/cu. ft.) 3 E - Urethane, .031" thick, (10 to 150"F), (>30 bs/cu. ft.) 3 F - Urethane, .030" elastomer w/bumper for removable overlays, orange, (10 to 150"F), (>90 bs/cu. ft.) 4 B - Buna-N, black, .020" thick, (-20 to 212"F), (20 to 90 bs./cu. ft.) 6 D - Silicone Rubber, .082" thick, (-40 to 350"F), (>35 bs./cu. ft.) 6 D - Silicone Rubber on Glass, red, .032" thick, (-40 to 350"F), (>90 bs/cu. ft.) 6 E - Silicone Rubber on Glass, red, .032" thick, (-40 to 350"F), (>90 bs/cu. ft.) 6 G - "6C" w/Urethane overlay, (-40 to 350"F), (wood chips diaphragm with "A2") 6 H - "6C" w/bumper for removable overlays 901-120, -132, -134, gray, (-40 to 350"F), (.90 bs/cu. ft.) 7 A - Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (30 to 90 bs./cu. ft.) 7 B - Buna-N (Food Applications-white), .060" thick, (-20 to 212"F), (30 to 90 bs./cu. ft.) 8 A - EPOM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu. ft.) 10 F B - Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275"F), (30 to 90 bs./cu. ft.) 11 - Polyester Nitex, white, 15 micron permeability, (-30 to 275"F), (30 to 90 bs./cu. ft.) 12 - High Temp, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPOT, 15A @ 125, 250 VAC; 24 VDC("")				
T.A Fluoroelastomer, black, .025 'thick, (25 to 300'F), (>30 lbs/cu. ft.)	E - Aluminum, Epoxy Coated			
G				
P 3 F = Urethane, "3D" elastomer w/bumper for removable overlays, orange, (10 to 150°F), (>90 lbs/cu. ft.) G 4 B = Buna-N, black, 0.20° thick, (-20 to 212°F), (20 to 90 lbs./cu. ft.) 5 A = PTFE/Glass on Sil Rubber, 0.24° thick, (-40 to 350°F), (>35 lbs./cu. ft.) 6 D = Silicone Rubber, gray, 0.62° thick, (-40 to 350°F), (>90 lbs/cu. ft.) 6 E = Silicone Rubber on Glass, red, .032° thick, (-40 to 350°F), (>90 lbs/cu. ft.) 6 G = "6C" w/brethane overlay, (-40 to 350°F), (wood chips diaphragm with "A2") 6 H = "6C" w/bumper for removable overlays 901-120, -132, -134, gray, (-40 to 350°F), (>90 lbs/cu. ft.) 7 A = Silcone Rubber on Glass (White), .015° thick, (-40 to 350°F), (5 to 40 lbs./cu. ft.) 7 B = Buna-N (Food Applications-white), .050° thick, (-20 to 212°F), (30 to 90 lbs./cu. ft.) 8 A = EPOM, black, .036° thick, (-40 to 275°F), (40 to 90 lbs./cu. ft.) 1 6 = Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275°F), (30 to 90 lbs./cu. ft.) 9 (30 to 90 lbs./cu. ft.) 6 T + Polyester Nitex, white, 15 micron permeability (-30 to 275°F), (30 to 90 lbs./cu. ft.) 6 T + High Temp, SPDT, 5A Ø 125, 250 VAC 7 T - High Temp, SPDT, 5A Ø 125, 250 VAC G - Gold contacts, SPDT, 1A Ø 125, 250 VAC G - Gold contacts, SPDT, 1A Ø 125, 250 VAC SUFFIX-SPECIAL CONTROLS -A1 = DVP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product)	G 1 A = Fluoroelastomer, black, .025 thick, (25 to 300 F), (>30 lbs/cu. ft.)			
P 3 F = Urethane, "3D" elastomer w/bumper for removable overlays, orange, (10 to 150°F), (>90 lbs/cu. ft.) G 4 B = Buna-N, black, 0.20° thick, (-20 to 212°F), (20 to 90 lbs./cu. ft.) 5 A = PTFE/Glass on Sil Rubber, 0.24° thick, (-40 to 350°F), (>35 lbs./cu. ft.) 6 D = Silicone Rubber, gray, 0.62° thick, (-40 to 350°F), (>90 lbs/cu. ft.) 6 E = Silicone Rubber on Glass, red, .032° thick, (-40 to 350°F), (>90 lbs/cu. ft.) 6 G = "6C" w/brethane overlay, (-40 to 350°F), (wood chips diaphragm with "A2") 6 H = "6C" w/bumper for removable overlays 901-120, -132, -134, gray, (-40 to 350°F), (>90 lbs/cu. ft.) 7 A = Silcone Rubber on Glass (White), .015° thick, (-40 to 350°F), (5 to 40 lbs./cu. ft.) 7 B = Buna-N (Food Applications-white), .050° thick, (-20 to 212°F), (30 to 90 lbs./cu. ft.) 8 A = EPOM, black, .036° thick, (-40 to 275°F), (40 to 90 lbs./cu. ft.) 1 6 = Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275°F), (30 to 90 lbs./cu. ft.) 9 (30 to 90 lbs./cu. ft.) 6 T + Polyester Nitex, white, 15 micron permeability (-30 to 275°F), (30 to 90 lbs./cu. ft.) 6 T + High Temp, SPDT, 5A Ø 125, 250 VAC 7 T - High Temp, SPDT, 5A Ø 125, 250 VAC G - Gold contacts, SPDT, 1A Ø 125, 250 VAC G - Gold contacts, SPDT, 1A Ø 125, 250 VAC SUFFIX-SPECIAL CONTROLS -A1 = DVP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product)	G 2 A = Neoprene, Black, 025 thick, (-30 to 220°F), (>30 lbs/cu. ft.)			
P	G 3 E = Urethane, orange, .062" thick, (10 to 150"F), (>90 lbs/cu, ft.)			
G	P 3 F = Urethane, "3D" elastomer w/bumper for removable overlays, orange,			
G G = "6C" w/Urethane overlay. (-40 to 350"F), (wood chips diaphragm with "A2") G H = "6C" w/Urethane overlay. (-40 to 350"F), (wood chips diaphragm with "A2") G H = "6C" w/Urethane overlay. 901-120, -132, -134, gray. (-40 to 350"F), (90 lbs/cu, ft.) T A = Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (5 to 40 lbs/cu, ft.) T B = Buna-N (Food Applications-white), .050" thick, (-20 to 212"F), (30 to 90 lbs./cu, ft.) B A = EPOM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu, ft.) T B = Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275"F), (30 to 90 lbs./cu, ft.) T - Polyester Nitex, white, 15 micron permeability (-30 to 275"F), (30 to 90 lbs./cu, ft.) G T H DIGIT-SWITCH TYPE A = Standard, SPOT, 15A @ 125, 250 VAC T = High Temp, SPOT, 15A @ 125, 250 VAC G = Gold contacts, SPOT, 1A @ 125 VAC, % A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = VIP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensibity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*				
G G = "6C" w/Urethane overlay. (-40 to 350"F), (wood chips diaphragm with "A2") G H = "6C" w/Urethane overlay. (-40 to 350"F), (wood chips diaphragm with "A2") G H = "6C" w/Urethane overlay. 901-120, -132, -134, gray. (-40 to 350"F), (90 lbs/cu, ft.) T A = Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (5 to 40 lbs/cu, ft.) T B = Buna-N (Food Applications-white), .050" thick, (-20 to 212"F), (30 to 90 lbs./cu, ft.) B A = EPOM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu, ft.) T B = Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275"F), (30 to 90 lbs./cu, ft.) T - Polyester Nitex, white, 15 micron permeability (-30 to 275"F), (30 to 90 lbs./cu, ft.) G T H DIGIT-SWITCH TYPE A = Standard, SPOT, 15A @ 125, 250 VAC T = High Temp, SPOT, 15A @ 125, 250 VAC G = Gold contacts, SPOT, 1A @ 125 VAC, % A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = VIP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensibity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*	C 5 A = PTEF/Glass on Sil Rubber 024" thick (-40 to 350"F) /-35 lbs /cu ft)			
G G = "6C" w/Urethane overlay. (-40 to 350"F), (wood chips diaphragm with "A2") G H = "6C" w/Urethane overlay. (-40 to 350"F), (wood chips diaphragm with "A2") G H = "6C" w/Urethane overlay. 901-120, -132, -134, gray. (-40 to 350"F), (90 lbs/cu, ft.) T A = Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (5 to 40 lbs/cu, ft.) T B = Buna-N (Food Applications-white), .050" thick, (-20 to 212"F), (30 to 90 lbs./cu, ft.) B A = EPOM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu, ft.) T B = Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275"F), (30 to 90 lbs./cu, ft.) T - Polyester Nitex, white, 15 micron permeability (-30 to 275"F), (30 to 90 lbs./cu, ft.) G T H DIGIT-SWITCH TYPE A = Standard, SPOT, 15A @ 125, 250 VAC T = High Temp, SPOT, 15A @ 125, 250 VAC G = Gold contacts, SPOT, 1A @ 125 VAC, % A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = VIP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensibity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*	G 6 D = Silicone Rubber, gray, .062 thick, (-40 to 350 F), 15 to 30 lbs/cu. ft.)			
(.90 lbs/cu, ft.) 7 A - Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (5 to 40 lbs/cu, ft.) 7 B - Suna-N (Food Applications-white), .050" thick, (-20 to 212"F), (30 to 90 lbs./cu, ft.) 8 A - EPDM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu, ft.) 1 6 - Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275"F), (30 to 90 lbs/cu, ft.) 1 7 - Polyester Nitex, white, 15 micron permeability (-30 to 275"F), (30 to 90 lbs/cu, ft.) 6TH DIGIT-SWITCH TYPE A - Standard, SPDT, 15A @ 125, 250 VAC; 24 VDC("") V - High Temp, SPDT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPDT, 15A @ 125, 250 VAC; 24 VDC G - Gold contacts, SPDT, 15A @ 125, 250 VAC; 24 VDC SUFFIX-SPECIAL CONTROLS -A1 - IVP with Diaphragm cover plate -A2 - Wood Chip Control (with "6G" diaphragm only) -A3 - High sensitivity actuator (for very light product) EX G S D 3 D A - EXAMPLE MODEL NUMBER"	G 6 E = Silicone Rubber on Glass, red, .032" thick, (-40 to 350"F), (>90 lbs/cu. ft.)			
(.90 lbs/cu, ft.) 7 A - Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (5 to 40 lbs/cu, ft.) 7 B - Suna-N (Food Applications-white), .050" thick, (-20 to 212"F), (30 to 90 lbs./cu, ft.) 8 A - EPDM, black, .036" thick, (-40 to 275"F), (40 to 90 lbs./cu, ft.) 1 6 - Polyester Filter Fabric, white, 150 micron permeability, (-30 to 275"F), (30 to 90 lbs/cu, ft.) 1 7 - Polyester Nitex, white, 15 micron permeability (-30 to 275"F), (30 to 90 lbs/cu, ft.) 6TH DIGIT-SWITCH TYPE A - Standard, SPDT, 15A @ 125, 250 VAC; 24 VDC("") V - High Temp, SPDT, 15A @ 125, 250 VAC; 24 VDC("") V - High vibration, SPDT, 15A @ 125, 250 VAC; 24 VDC G - Gold contacts, SPDT, 15A @ 125, 250 VAC; 24 VDC SUFFIX-SPECIAL CONTROLS -A1 - IVP with Diaphragm cover plate -A2 - Wood Chip Control (with "6G" diaphragm only) -A3 - High sensitivity actuator (for very light product) EX G S D 3 D A - EXAMPLE MODEL NUMBER"	G 6 G = "6C" w/Urethane overlay, (-40 to 350 °F), (wood chips diaphragm with "A2")			
G				
G	G 7 A - Silcone Rubber on Glass (White), .015" thick, (-40 to 350"F), (5 to 40 lbs /cu, ft.)			
P	G 7 B = Buna-N (Food Applications-white), .060" thick, (-20 to 212"F), (30 to 90 lbs./cu.ft.)			
(30 to 90 lbs/cu, ft.) 17 = Polyester Nitex, white, 15 micron permeability (-30 to 275°F), (30 to 90 lbs/cu, ft.) 6TH DIGIT-SWITCH TYPE A = Standard, S-PUT, 15A @ 125, 250 VAC T = High Temp, S-PUT, 15A @ 125, 250 VAC; 24 VDC(**) V = High vibration, S-PUT, 15A @ 125, 250 VAC G = Gold contacts, S-PUT, 15A @ 125, 250 VAC G = Gold contacts, S-PUT, 15A @ 125, 250 VAC SUFFIX-SPECIAL CONTROLS -A1 = DVP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product) E X G S D J A = EXAMPLE MODEL NUMBER*				
P 17 = Polyester Nitex, white, 15 micron permeability (-30 to 275°F), (30 to 90 lbs /cu. ft.) 6TH DIGIT-SWITCH TYPE A = Standard, SPDI, 15A @ 125, 250 VAC; 24 VDC(**) V = High Temp, SPDT, 5A @ 125, 250 VAC; 24 VDC(**) V = High wibration, SPDT, 15A @ 125, 250 VAC G = Gold contacts, SPDT, 15A @ 125, 250 VAC SUFFIX-SPECIAL CONTROLS -A1 = IVP with Diaphragm cover plate -A2 = Wood Chip Control (with *6G* diaphragm only) -A3 = High sensitivity actuator (for very light product) EX G S D 3 D A = EXAMPLE MODEL NUMBER*				
6TH DIGIT-SWITCH TYPE A = Standard, SPDI, 15A @ 125, 250 VAC T = High Temp, SPDT, 5A @ 125, 250 VAC; 24 VDC(**) V = High Vibration, SPDT, 15A @ 125, 250 VAC G = Gold contacts, SPDT, 1A @ 125 VAC, % A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = VDP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*	P 1 7 - Polyester Nitex, white, 15 micron permeability (-30 to 275°F),			
A = Standard, SPU1, 15A @ 125, 250 VAC T = High Temp, SPDT, 5A @ 125, 250 VAC; 24 VDC(**) V = High Vibration, SPDT, 15A @ 125, 250 VAC G = Gold contacts, SPDT, 1A @ 125 VAC, % A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = UP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*	(30 to 90 lbs/cu. ft.)			
T - High Terrip, SPDT, SA @ 125, 250 VAC; 24 VDC(**) V - High vibration, SPDT, 15A @ 125, 250 VAC G - Gold contacts, SPDT, 15A @ 125, 250 VAC G - Gold contacts, SPDT, 14 @ 125 VAC, % A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = IVP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*	6TH DIGIT-SWITCH TYPE			
V = High vibration, SPDT, 15A @ 125, 250 VAC G = Gold contacts, SPDT, 1A @ 125 VAC, ½ A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = DVP with Diaphragm cover plate -A2 = Wood Chip Control (with "66" diaphragm only) -A3 = High sensitivity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*				
G = Gold contacts, SPDT, 1A @ 125 VAC, % A @ 24 VDC SUFFIX-SPECIAL CONTROLS -A1 = LVP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*				
SUFFIX-SPECIAL CONTROLS -A1 = DVP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product) E X G S D 3 D A = EXAMPLE MODEL NUMBER*				
-A1 = DVP with Diaphragm cover plate -A2 = Wood Chip Control (with "6G" diaphragm only) -A3 = High sensitivity actuator (for very light product) E[X] G[S] D[3 D] A = EXAMPLE MODEL NUMBER*				
-A2 - Wood Chip Control (with "éG" diaphragm only) -A3 - High sensitivity actuator (for very light product) E[X] G S D 3 D A - EXAMPLE MODEL NUMBER*-	-A1 = D/P with Diaphragm cover plate			
E X G S D 3 D A - EXAMPLE MODEL NUMBER*-	-A2 = Wood Chip Control (with "eG" diaphragm only)			
E[X] G S D[3 D] A = EXAMPLE MODEL NUMBER*-				
	E[X] G S D 3 D A = EXAMPLE MODEL NUMBER*: *GS - G series suspended controls require suspension vent fittings.			

G series suspended controls require suspension vent fittings

("Mon-UL/CSA listed

Note: The "EX" prefix must be added to the 6-digit model number for "explosion-proof standard". General purpose units do not require the "EX" or other prefix. See the "Complete Model Chart" on this page.

Model	
Number	
GSD3DA	
GFD3DA	
PSD16A	
PFD16A	

Suspension Assembly Kits

"P" and "G" Series Suspension Assembly Kits				
Model Number	Description			
901-409	"P Series Suspension Assembly Includes 1/2" pipe (56" Sed langth), 1" pipe (48" Sed langth), 1" pipe coupling, 1-1/2 NPT strain relief on 1" pipe, Galvarizad mild stael pipe, explosion proof, standard.			
901-412	"G" Series Suspension Assembly includes 1/2" pipe (56" Std length), watertight strain railer and 1" coupling, upper 1" pipe (26" Std langth), lower 1" pipe (20" Std langth), strain railer with 1-1/2" NPT, 1"X1"X1" Tee, 1" Street Bil and 1" pipe-4" long Stilling Pot. Galvenized steel pipe, explosion proof, standard.			