



# **Pressure & Vacuum Switches**

## SWITCHING AND SENSING SOLUTIONS



**ISSUE 01** 

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Herga Electric Limited is an independent UK manufacturer of switching systems. In addition to pressure and vacuum switches, we offer other innovative switching solutions:-

hergair	Airswitching systems
herga	Footswitches
hergalite	Fibre Optics / Infra red safety products
herga	Hand controls

Our expertise spans the automotive, medical, packaging, domestic appliance and spa industries.

Herga is driven to respond rapidly to delight our customers. Herga seeks to develop its relations with customers to achieve their business goals.

### **Global Presence**

Our distributor network covering the worlds major markets enables technical help and assistance to be just a phone call away.

### **Continuous Improvement**

Herga's approval to ISO 9002 ensures that we are fully in control of our quality. However, this is just the starting point for an aspiring World Class company. We encourage training and development and continuous improvements at individual, team and company level.

### How can we help you?

This brochure provides a brief overview of our product range. If you require further information, please contact us at our e-mail address: herga.electric@dial.pipex.com

### Herga's customers worldwide include

BMW/Rover Electrolux Jacuzzi RS Components Siemens General Electric

FOR FURTHER INFORMATION TEL: +44 (0)1284 701422 FAX: +44 (0)1284 753112

### Pressure & Vacuum Switches



<b>6702 High Pressure Switch</b> High pressure switch all plastic construction. Ranges 1.4-13.8 Bar (20-200 PSI). Two (2) Pole Electrical Switching.		Page PV1 & 2
<b>6773 Double Diaphragm Pressure Switch</b> Double diaphragm construction to meet double insulation requirements of EN 60335-2-60. Water presence detection.	***	Page PV3
<b>6761 and 6763 Low Air Pressure Vacuum Switches</b> Printed circuit board mounted, pressure/vacuum switches. UL versions available. Range from (0.015 Bar - 1.0 Bar Pressure) (-0.015 Bar - 0.670 Bar Vacuum).		Page PV4
<b>6741 and 6742 Medium Pressure Switches</b> Constructed in Nylon 12 material (pressure range 0.1 Bar to 8.2 Bar). Single or double pole in 8 adjustable switch ranges. UL versions available.		Page PV5 & 6
<b>6731 and 6732 Low Pressure Switches</b> Constructed in Nylon 12 material (pressure range (0.0037 Bar to 0.137 Bar). Single or double pole in 3 adjustable switch ranges. UL versions available.		Page PV7 & 8
6753 Low Air Pressure/Vacuum Switches Small versatile compact differential switch with low contact inertia for rapid switching (range 2.5 mbar to 40 mbar).	@ <b>&amp;</b>	Page PV9 & 10
<b>6721 and 6722 Vacuum Switches</b> Constructed in Nylon 12 material (vacuum range -0.0075 Bar to -0.670 Bar). Single or double pole in 5 adjustable switch ranges. UL versions available.		Page PV11 & 12
Pressure Conversion Chart For more commonly used measurements, including flow, liquid, force and weight equivalents.	Ľ	Page PV13
Certification Markings Covers most worldwide authorities/certification marks.	CE	Page PV14
Accessories / Switch Housings Air and electrical connections are available for all pressure and vacuum switches. Please also refer to Airswitching section or contact herga for details.	10000	Page PV15
Fax Back Sheet For your fast quotation service.		Page PV16

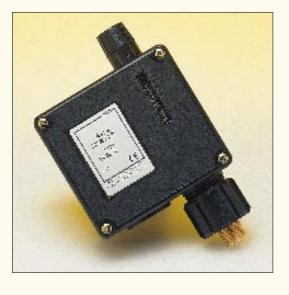
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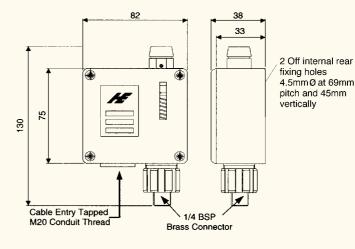
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### 6702 ~ High Pressure Switch





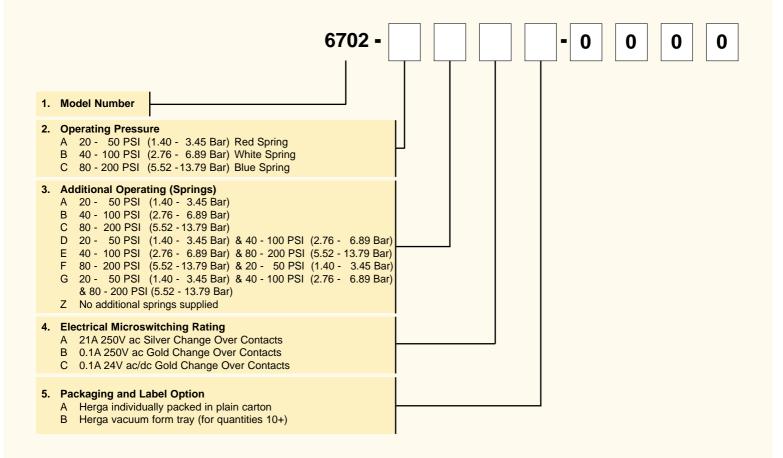


### **Benefits**

- High pressure switch, all plastic construction (glass loaded nylon)
- Alternate diaphragm and connectors available for volume orders
- Excellent repeatability
  - Switches have adjustable pressure and differential

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- Specific settings can be set for volume orders
- IP65 enclosures class II double insulated



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### 6702 ~ High Pressure Switch

#### 6702 Pressure Switch

The industrial pressure switch is moulded entirely in plastic with the exception of the pressure connection and is water, oil and dust proof to IP65. The switches have excellent repeat accuracy, even over widely varying ambient conditions.

The operating pressure is adjustable externally using the thumb screw on the top and the approximate pressure setting can be seen through a window in the cover. To discourage unauthorised tampering, the adjusting screw can be locked in position with an M1.5mm Allen screw.

The microswitches have independent vernier adjustment and are normally set to operate within 2 PSI on rising pressure. Where two pressure levels are to be controlled, the switches can be adjusted separately so that one switch will operate at up to 80% of the level of the second. The switches can also be set to operate simultaneously on falling pressure instead of rising pressure.

The pressure switch is of Class II construction with double insulation. For quantity orders, many special options are available, please enquire:-

- Single or double pole switching set to specific pressure levels
- Alternative connector sizes
- Alternative diaphragms and metal chambers to resist particular fluids
- Installation and setting instructions are supplied with each product

#### **Other Information**

Withstand pressure	500 PSI (34.5 Bar)
Setting accuracy when set by herga	± 10%
Temperature range	-5°C to +70°C
Diaphragm	Fabric reinforced Nitrile
Weight	300g

#### Silver Contact Microswitch Data

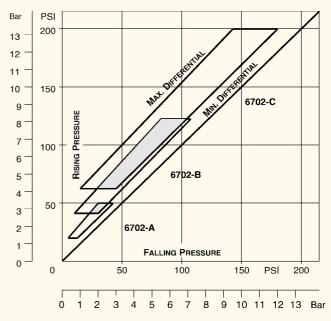
Average Life	Mechanical	1.0 x 10 <sup>6</sup>		
Expectancy	Electrical	2.0 x 10⁵	@ 10A 1.0 x ′	10⁴ @ 21A
Electrical Rati	ng	Ma	ax. Electrical Lo	bad
	Voltage	Res.	Ind.	(Pf 0.75 Motor)
	250V	21A		1HP
AC	250V	21A	8A	2HP
	125V	21A		2111
	6V	21A	21A	
	12V	15A	15A	
DC	24V	8A	7A	
DC	60V	1A	0.5A	
	110V	0.5A	0.2A	
	220V	0.25A	0.1A	

### **Gold Contact Microswitch Data**

Average Life	Mechanical		1.0 x 1.0 <sup>6</sup>	
Expectancy	Electrical	2.0 x 10⁵	@ 10A 1.0 x	10⁴ @ 21A
Electrical Rati	ng	Max. Electrical Load		
	Voltage	Res.	Ind.	(Pf 0.75 Motor)
AC	250V	0.1A	0.05	N/A
UL/CSA Only	125V	0.1A		

Switch Standards: EN 60730, EN 61058 and UL 508

CE, BEAB, CSA, DEMCO, IMQ, KEMA, NEMCO, Approvals Available: OVE, SEMCO, SET I, SEV, UL, VDE



Note: differentials are approximate

### Suitability for use with different operating media

Pressure Medium		6702
Acetone		$\checkmark$
Ammonia (Liquid)		$\checkmark$
Amyl Alcohol to 20°C		$\checkmark$
Automotive Brake Fluid		$\checkmark$
Beer		$\checkmark$
Butane		1
Carbon Dioxide (Dry)		1
Citric Acid		1
Copper Sulphate (Sol.)		$\checkmark$
Compressed Air		1
Cutting Oil		1
Diesel Oil		1
Detergent Solution		1
Fuel Oil		1
Glycol		1
Hydraulic Oil		1
Hydrogen		1
Lubricating Oil		✓
Milk		$\checkmark$
Mineral Oil		1
Natural Gas		✓
Oxygen to 70°C		✓
Petrol		1
Plating Solution (Chrome)		$\checkmark$
Salt Water		$\checkmark$
Sewage		✓
Turpentine		1
Vinegar		$\checkmark$
Water		1

 $\checkmark$  = Recommended

Note: Dry Switching - if switching low power circuits, low current (4 to 100 milliamperes) and low voltage (below 30V), consult herga or refer to gold contact in section 4 of the opposite page.

Herga do not accept liability for any pressure operated device used outside the pressure range specified by the company.

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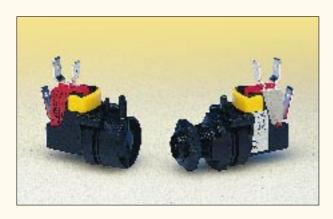


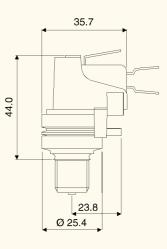


 $<sup>\</sup>checkmark$  = Suitable with modifications

### 6773 ~ Double Diaphragm Pressure Switch







### Benefits

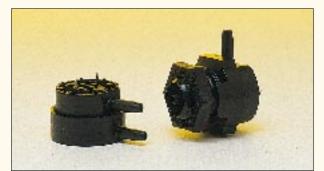
- Specified to EN 60335-2-60 double insulated for water detection
- Various microswitch options

- Gold contacts available
- Other pressures available up to 10 PSI
- Multiple cap and spout options available

	6773 -	Α		- A		
1.	Model Number					
2.	Pressure Range A 250mm H <sub>2</sub> O to 760mm H <sub>2</sub> O Standard	μ				
3.	CapsASide Entry Std Spout Std Orientation 4.0mm SpoutBSide Entry Std Spout Rotated 90° Viewed From Cap 4.0mmØ SpoutCSide Entry Std Spout Rotated 180° Viewed From Cap 4.0mmØ SpoutDSide Entry Std Spout Rotated 270° Viewed From Cap 4.0mmØ SpoutESide Entry Long Spout 4.0mmØ Std OrientationFSide Entry Long Spout Rotated 90° Viewed From Cap 4.0mmØ SpoutGSide Entry Long Spout Rotated 180° Viewed From Cap 4.0mmØ SpoutHBack Entry Short Thread 4.0mmØ Spout. Not suitable for 'O' ringJBack Entry Long Thread 4.0mmØ SpoutKBack Entry Long Thread 2.0mmØ SpoutLLong Thread Spout Rotated @ 90° 4.0mmØ Spout					
4.	Bleed A No Bleed Cap J With Bleed Cap					
5.	Nut Specification           A         Black Moulded Nut           B         Black Moulded Nut and 'O' Ring (only available with options 3J, K & L above)		 			
6.	Authority A European Tag Configuration					
7.	Terminal CombinationsA3 Blade QC 6.3mm x 0.8mmB2 Blade QC 6.3mm x 0.8mm Normally Open ContactsC2 Blade QC 6.3mm x 0.9mm 90° Crank Normally Open Contacts					
8.	Microswitch RatingA0.1A 125/250V ac Gold Contacts (not available with option 7c)B10A 1/4 HP 125/250V acC21A 250V ac 1 HP 125V ac 2 HP 250V ac					

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# 6761 & 6763 ~ Low Air Pressure Vacuum Switches (slow make contacts)

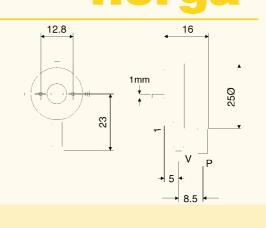


#### **Benefits**

- A range of small switches designed for direct mounting onto printed circuit boards
- UL versions available

**Printed Circuit Board Mounting Switches** 

- Various spout orientations available
- Double diaphragm versions available upon request

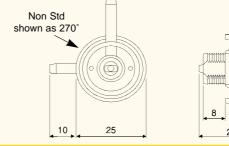


- Available with base or side tube entry
- Silver or gold contact options
- Switches can be factory set within specified tolerances
- 'O' ring seals available for dust and water tight applications, back entry versions only

Model No		6761 (Vacuum)	6763 (Pressure)
Pressure/Vacuum range	Minimum	150mm (6 ins) Wg	150mm (6 ins) Wg
	Maximum	670 millibar (9.8) PSI	1.0 Bar (14.7) PSI
Maximum Differential		Approximately 0.06 ins WG	Approximately 0.06 ins WG
Pressure/Vacuum Range		Adjustable variants	Adjustable variants
Body Withstand Pressure		2.7 Bar (40) PSI	2.7 Bar (40) PSI
Air Bleed Version		Available upon request	Available upon request
Flow Rate Litre / Min (with air bl	eed)	8 - 30cc/Min @ 31 ins WG	8 - 30cc/Min @ 31 ins WG
Pressure Connection		4mm Ø spout for side and back entry	4mm Ø spout for side and back entry
		2mm Ø spout for back entry only	2mm Ø spout for back entry only
		Lower spout 'V' vacuum	Upper spout 'P' pressure
Connecting Tube Reference		4mm spout = 2311-01 or 2311-08	4mm spout = 2311-01 or 2311-08
		2mm spout = 2311-03	2mm spout = 2311-03
Temperature Range		-10°C to 85°C (Flow Solder 220°C for 5 Sec)	-10°C to 85°C (Flow Solder 220°C for 5 Sec)
Electrical Data			
Switch		Single Pole Normally Open	Single Pole Normally Open
Contact Rating Maximum		0.5A RES 250V ac (Silver contacts)	0.5A RES 250V ac (Silver Contacts)
UL		50mA RES 250V ac	50mA RES 250V ac
		(Maximum ratings may not be achieved at low p	ressure settings)
Dry Switching Maximum Recomm	ended Current	10mA 24V dc (UL)	10mA 24V dc (UL)
Body		Glass filled polyester	Glass filled polyester
Diaphragm		Silicone as standard	Silicone as standard
Contacts		Silver or gold plated copper pins	Silver or gold plated copper pins
Mechanical Life		1 x 10 <sup>6</sup> cycles	1 x 10 <sup>6</sup> cycles
Weight (grams)		8grms	8grms

### 6761/6763 Vacuum and Pressure Switch Range

A miniature, compact low pressure switch designed for direct fitting by solder pins to printed circuit boards. Both vacuum and pressure ports are provided making the unit ideal for differential switching. Typical applications are indicators, emergency cut-out and alarms, filter and low pressure/vacuum monitoring. The switch is made to order for specific applications, the actual operating pressures or vacuum being set during production. However, final adjustment may be made after installation by the slotted screw in the base. The body construction allows the two ports to be set at any angle to each other.



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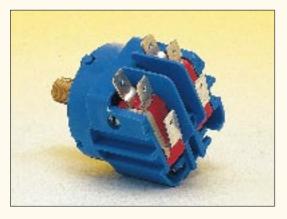
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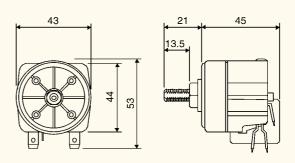
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### 6741 / 6742 ~ Medium Pressure Switches







#### Benefits

- Switches set to specific rising or falling pressures
- UL recognised versions available
- High performance repeatability
- Silver Contact Microswitch Data

Average Life	Mechanical	1.0 x 10 <sup>6</sup>					
Expectancy	Electrical	2.0 x 10⁵	2.0 x 10 <sup>₅</sup> @ 10A 1.0 x 10 <sup>₄</sup> @ 2 <sup>⋅</sup>				
Electrical Rati	ng	Ma	Max. Electrical Load				
	Voltage	Res.	Ind.	(Pf 0.75 Motor)			
	250V	21A		1HP			
AC	250V	21A	8A	1HP			
	125V	21A					
	6V	21A	21A				
	12V	15A	15A				
DC	24V	8A	7A				
DC	60V	1A	0.5A				
	110V	0.5A	0.1A				
	220V	0.25A	0.1A				

### **Gold Contact Microswitch Data**

Average Life	Mechanical		1.0 x 10 <sup>6</sup>	
Expectancy	Electrical	2.0 x 10 <sup>6</sup>	@ 10A 1.0 x ′	I0⁴ @ 21A
Electrical Rati	ng	Ma	bad	
	Voltage	Res.	Ind.	(Pf 0.75 Motor)
AC	250V	0.1A	0.05	N/A
UL/CSA Only	125V	0.1A		

Switch Standards:

EN 60730, EN 61058 and UL 508

Approvals Available:

CE, BEAB, CSA, DEMCO, IMQ, KEMA, NEMCO, OVE, SEMCO, SET I, SEV, UL, VDE

### NB

Herga do not accept liability for any pressure operated device used outside the pressure range specified by the company.

- Single or double pole switching
- Customised settings available upon request
- Various connector options available

Model No	6742-20/30/40/50/60	6742-70/80/90
Electrical Switch Data	2 Pole change over	2 Pole Change over
Contact Rating	21 (8) A 250V ac	21 (8) A 250V ac
Pressure Connection	Brass <sup>1</sup> /8" BSPT	Brass 1/8" BSPT
Setting Accuracy	± 10% as standard	± 10% as standard
Withstand Pressure	25 PSI or x 2	150 PSI 10 Bar
Temperature Range	-5°C to + 70°C	-5°C to + 70°C
Body Material	Nylon 12	Nylon 12
Diaphragm	Neoprene	Nitrile fabric reinforced fitted in brass pressure capsule
Spring	Spring steel	Spring steel
Weight	50gm	85gm

Model No	Pressur	Differential	
Noder No	P.S.I	Bar	(Fixed)
6742-20	1.5 - 3.5	0.10 - 0.24	See chart 1
6742-30	3.0 - 5.5	0.20 - 0.37	See chart 1
6742-40	5 - 10	0.34 - 0.68	See chart 1
6742-50	8 - 18	0.54 - 1.22	See chart 2
6742-60	16 - 30	1.08 - 2.04	See chart 2
6742-70	25 - 55	1.70 - 3.79	See chart 3
6742-80	45 - 75	3.1 - 5.17	See chart 3
6742-90	60 - 120	4.14 - 8.27	See chart 3

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#### Special options are available for quantity orders

Diaphragms in silicon rubber, nitrile, EPDM

Switches with wide or close differentials

٠. Springs in stainless steel

٠. NPT connectors available

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### 6741 / 6742 ~ Medium Pressure Switches



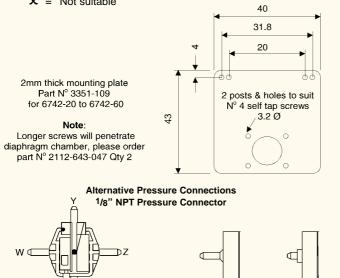
#### Suitability for use with different operating media

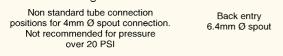
Pressure Medium	Diaphragms					
Chemical Compatibility	6742/20/30/40	6742/70/80				
	50 & 60	& 90				
Acetone						
Ammonia (Liquid)						
Amyl Alcohol to 20°C						
Automotive Brake Fluid						
Beer						
Benzyl Alcohol	×					
Butane	1	1				
Carbon Dioxide - Dry	1	1				
Citric Acid	✓	<ul> <li>✓</li> </ul>				
Copper Sulphate (Sol.)						
Compressed Air	<u> </u>	1				
Cutting Oil		1				
Diesel Oil	$\checkmark$	1				
Detergent Solution		1				
Fuel Oil	$\checkmark$	1				
Glycol	1	1				
Hydraulic Oil	$\checkmark$	1				
Hydrogen	1	1				
Lubricating Oil	$\checkmark$	1				
Milk	$\checkmark$					
Mineral Oil		1				
Natural Gas	1	1				
Nitric Acid (Dil.)	x					
Oxygen to 70°C	1	1				
Petrol	$\checkmark$	1				
Plating Solution (Chrome)	$\checkmark$					
Salt Water	$\checkmark$					
Sewage	$\checkmark$					
Sulphur Dioxide	×	✓ ✓				
Turpentine	$\checkmark$	1				
Vinegar	$\checkmark$					
Water	1	1				

✓ = Recommended Key:

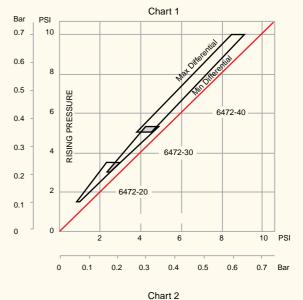
Suitable with modification

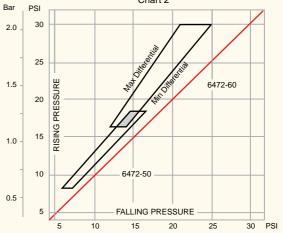
 $\mathbf{X}$  = Not suitable





6742-20 to 6742-60 only



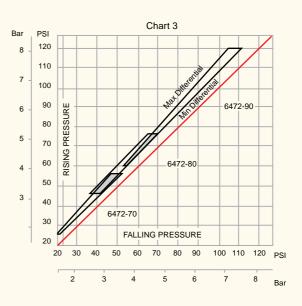


1.0

1.5

2.0 Bar

0.5



Note: Differentials are approximate

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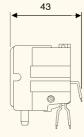
Back entry

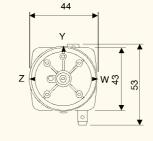
4mm Ø spout

### 6731 / 6732 ~ Low Pressure Switches

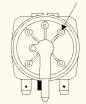








### 5 Fixing holes 4.5mm deep to suit No.4 self tap screws on 28.5 PCD



### Benefits

- These switches have been designed primarily for the OEM manufacturer who requires low cost and high reliability
- UL recognised versions available

- The switches have excellent repeat accuracy
- Double pole switching available upon request
- Wide choice of microswitch options including tab configurations

Model No	6731-03	6731-06	6731-10			Pressure	e Range	Differential			
Electrical Switch	Single Pole change over	Single Pole change over	Single Pole change over		Model No	Inches Water	mm Water	(Fixed)			
Contact Rating	3(1)A 250V ac	10(3)A 250V ac	21(8)A 250V ac		6731-03	1.5 - 7	40 - 180	See chart 1			
Pressure	Side entry spout	Side entry spout	Side entry spout		6731-06	5 - 25	127 - 635	See chart 1			
Connection	4mm O/D	4mm O/D	4mm O/D		6731-10	20 - 55	510 - 1400	See chart 1			
Setting Accuracy	± 10% as std	± 10% as std	± 10% as std								
Withstand Pressure	25 PSI	25 PSI	25 PSI			are available for		<i>.</i>			
Body Material	Nylon 12	Nylon 12	Nylon 12		<ul> <li>Switches set</li> </ul>	to specific operati	ing pressure, risin	g or falling			
Diaphragm	Neoprene	Neoprene	Neoprene		<ul> <li>Diaphragms i</li> </ul>	in silicon rubber, n	itrile, EPDM				
Spring	Spring steel	Spring steel	Spring steel		<ul> <li>Switches with wide or close differentials</li> </ul>						
Weight	50gm	50gm	50gm		<ul> <li>Springs in sta</li> </ul>	ainless steel					

Pressure	Switches	673	1-03		6731-06		6731-10			
Average Life	Mechanical	2 x	10 <sup>6</sup>		2 x 10 <sup>6</sup>		1.0 x 10 <sup>6</sup>			
Expectancy	Electrical	0.2 x 10	D <sup>6</sup> @ 1A	0.2 x 10	D <sup>6</sup> @ 6A 50	K @ 10A	0.2 x 10 <sup>6</sup> @ 10A 10K @ 21A			
Electrical Rating		Max Elect	trical Load	Ma	ax Electrical L	.oad	Ма	x Electrical L	oad	
	Voltage	Resistive	Inductive	Resistive	Inductive	Motor (Pf0.75)	Resistive	Inductive	Motor (Pf0.75)	
	125V	3A 1A		10A	10A	0.5HP	21A	15A	1HP	
AC	250V	ЗA	1A	10A	10A	0.5HP	21A	15A	2HP	
DC	6V	ЗA	1A	10A	10A		21A	21A		
	12V	ЗA	1A	5A	ЗA		15A	15A		
	24V	1A	0.5A	5A	ЗA		8A	7A		
	60V	1A	0.5A	1A	0.5A		1A	0.5A		
	110V	0.5A	0.2A	0.5A	0.2A		0.5A	0.2A		
	220V	0.25	0.1A	0.25A	0.1A		0.25A	0.1A		
Switch Standards:		EN 60730, EN	N 61058 and UL	508						
Approvals Ava	ilable	CE, BEAB, CS	SA, DEMCO, IMQ	, KEMA, NEM	CO, OVE, SEI	MCO, SET I, SE	EV, UL, VDE. A	Approved to B	S 3955 part III	

#### Note: Dry Switching

If switching low power circuits, low current (4 to 100 milliamperes) and low voltage (below 30V), consult herga for special switches.

NB - Herga do not accept liability for any pressure operated device used outside the pressure range specified by the company.

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### Suitability for use with different operating media

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Pressure Medium	Diaphragms
Chemical Compatibility	6731
Acetone	$\checkmark$
Ammonia (Liquid)	$\checkmark$
Amyl Alcohol to 20°C	
Automotive Brake Fluid	$\checkmark$
Beer	$\checkmark$
Benzyl Alcohol	×
Butane	1
Carbon Dioxide - Dry	1
Citric Acid	<u> </u>
Copper Sulphate (Sol.)	
Compressed Air	1
Cutting Oil	1
Diesel Oil	1
Detergent Solution	1
Fuel Oil	1
Glycol	1
Hydraulic Oil	1
Hydrogen	1
Lubricating Oil	✓
Milk	
Mineral Oil	1
Natural Gas	×
Nitric Acid (Dil.)	
Oxygen to 70°C Petrol	1
	✓ ✓
Plating Solution (Chrome) Salt Water	
Sewage	✓ ✓
Sewage Sulphur Dioxide	×
Turpentine	~
Vinegar	✓ ✓
Water	✓ ✓
Water	v

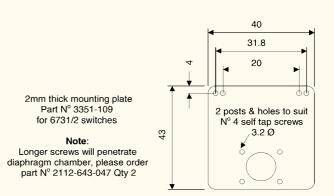
✓ = Recommended

 $\mathbf{X}$  = Not suitable

Suitable with modification

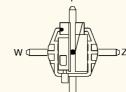
Key:

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#### **Alternative Pressure Connections**

Back Entry 1/8" BSPT and NPT Pressure Connectors





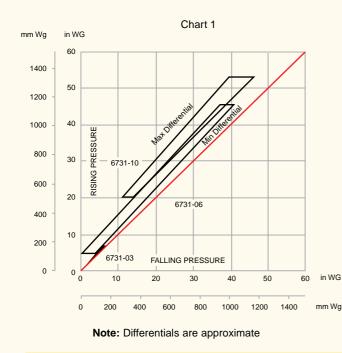
Non standard tube connection positions for 4mm Ø spout connection. Not recommended for pressure over 20 PSI

Back entry 6.4mm Ø spout

Back entry 4mm Ø spout



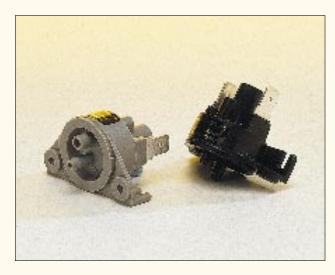


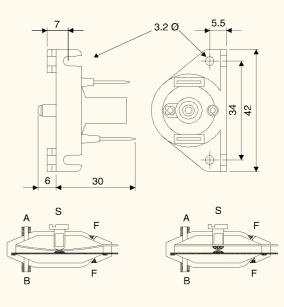


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**ISSUE 01** 







### Benefits

- Sensitive versatile switch ideal for long tube length applications
- Normally open or normally closed contact configuration
- Ideal for switching low power circuits

- Bleed versions available for temperature compensation
- Easily adjustable settings
- Custom pressure, vacuum and bleed settings available upon request

	6753 <b>-</b>	
1.	Model Number	
2.	Operation A Normally Open - Pressure B Normally Closed - Vacuum	
3.	Bleed Adjuster OptionsABleed A side only, Vacuum N/O to N/C, Pressure N/C to N/OBBleed B side only, Vacuum N/O to N/C, Pressure N/C to N/OCBleed both sides Vacuum / PressureDNo bleed variant either side Vacuum / Pressure	
4.	Bleed Setting A 100 - 300 cc/Min Factory Setting J No bleed setting	
5.	Pressure Setting           A $2.25"$ WG $\pm 0.5"$ Std         B $2"$ WG $\pm 0.5"$ C $3"$ WG $\pm 0.5"$ D $4"$ WG $\pm 0.5"$ E $6"$ WG $\pm 10\%$ F $8"$ WG $\pm 10\%$ G $10"$ WG $\pm 10\%$ H $12"$ WG $\pm 10\%$ J $14"$ WG $\pm 10\%$ K $16"$ WG $\pm 0 - 10\%$	
6.	Packaging OptionsAVacuum Form Tray (100 off volumes - ideal for OEM applications)BPoly Bag (individual)	

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### 6753 ~ Low Air Pressure / Vacuum Switches



### Technical Data

Technical Data		Electrical Data					
Pressure/Vacuum range minimum	25mm (1 in) Wg	Switch	Single pole, N/Open / N/Closed				
	400mm (16 ins) Wg		0.5A RES 250V ac (Maximum ratings may not be				
Maximum Differential	400mm (16 ins) Wg 50mm (2.25 ins) Wg	Contact Rating Maximum	achieved at low pressure settings)				
Pressure Standard Factory Setting	(Contacts Normally Open) Other	Dry Switching Minimum Current	5mA 4V dc				
· · · · · · · · · · · · · · · · · · ·	settings available see note 2)	Body	Glass filled nylon 12				
Maximum Differential Between	0.34 Bar (5 PSI)	Diaphragm	Neoprene				
Pressure Connection		Contacts	Gold plated silver mounted on phosphor-bronze blades				
Body Withstand Pressure	1.0 Bar (14.7 PSI)	Contacts					
Air Bleed Version	See choice options 3 & 4, other	Contact Resistance	0.05 Ohms				
	settings available, see note 3)	Mechanical Life	1 x 10 <sup>6</sup> cycles				
Flow Rate Litre / Min	Standard 100 - 300 cc/Min	Weight (grams)	10grms				
	@ 5 PSI						
Connection Position	Base see note <sup>2)</sup>						
Pressure Connection	4mm dia spouts For reducing connectors, please refer to accessories page						
Connecting Tube Reference	2311-08 or 2311-01						
Temperature Range	-5°C to 50°C						

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#### 6753 Pressure Switch Range

#### For very sensitive pressure, vacuum and differential pressure switching.

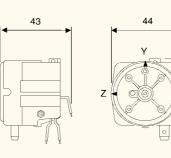
The 6753 range of switches provide a high specification in a small, versatile body shell. Great care has been taken in the switch unit design, keeping the moving mass and therefore inertia to a minimum. This means that it can operate at a high cycle rate with low pressure, vacuum or pressure differential. This design feature can be used when measuring pressure pulses such as on component counting applications and used with herga Safe Edges. The switch will operate very rapidly keeping the switch delay to a minimum.

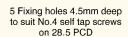
- 1) For good repeatable switching, the contacts are gold plated on solid silver. The electrical rating of the switch is dependent on the contact pressure. This pressure is dependent on the air pressure. Thus, for very sensitive setting the permissible switching current will be lower than normal.
- 2) The standard switch can be adjusted to give normally closed or normally open contacts depending on the application. For operation on pressure with normally closed contacts, connect to air connection 'A' and screw in sensitivity adjusting screw 'S' until contacts are normally closed. For operation on pressure with normally open contacts, connect to air connection 'B' and set with contacts normally open.
- 3) A separate version, (see bleed options), is provided with adjustable air bleeds on both sides of the diaphragm. These air bleeds are adjusted to a level which is suitable for most applications involving safe edges or elbows, and prevent pressure or vacuum building up inside when the ambient temperature or atmospheric pressure changes.

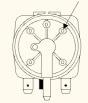
### 6721 / 6722 ~ Vacuum Switches











#### Benefits

- These switches have been designed primarily for the OEM manufacturer who requires low cost and high reliability
- UL recognised versions available

Model No	6721-03	6721-06	6721-20/30/40				
Electrical Switch Data	Single Pole change over	Single Pole change over	Single Pole change over				
Contact Rating	3(1)A 250V ac	10(3)A 250V ac	21(8)A 250V ac				
Vacuum Connection	Side entry spout 4mm O/D	Side entry spout 4mm O/D	Side entry spout 4mm O/D				
Setting Accuracy	± 10% std	± 10% std	± 10% std				
Temperature Range	-5°C to + 70°C	-5°C to + 70°C	-5°C to + 70°C				
Body Material	Nylon 12	Nylon 12	Nylon 12				
Diaphragm	Neoprene	Neoprene	Neoprene				
Spring (in Vacuum Cavity)	Spring steel 1)	Spring steel 1)	Spring steel 1)				

Note: The spring is fitted in the vacuum cavity in contact with the media

۰ 🔅	The	switches	have	excellent	repeat	accuracy
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- Double pole switching available upon request
- Wide choice of microswitch options available including tab configurations

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Model No	Vacuum	Differential (Fixed)		
model no	Inches Water			
6721-03	3 - 8	75 - 200	See chart 1	
6721-06	7 - 15	180 - 380	See chart 1	
6721-20	13 - 32	330 - 810	See chart 1	
6721-30	28 - 80	710 - 2030	See chart 2	
6721-40	75 - 270	1900 - 6860	See chart 2	

Special options are available for quantity orders

Switches set to specific operating vacuum, rising or falling

Diaphragms in silicon rubber, nitrile, EPDM

Switches with wide or close differentials

Springs in stainless steel

Pressure	Switches	673	1-03		6731-06		6731-10				
Average Life	Mechanical	2 x	10 <sup>6</sup>		2 x 10 <sup>6</sup>		1.0 x 10 <sup>6</sup>				
Expectancy	Electrical	0.2 x 10	0⁰ @ 1A	0.2 x 10	0 <sup>6</sup> @ 6A 50	K @ 10A	0.2 x 10 <sup>6</sup> @ 10A 10K @ 21A				
Electrical Rating		Max Electrical Load		Ma	ax Electrical L	oad	Ma	Max Electrical Load			
	Voltage	Resistive	Inductive	Resistive	Inductive	Motor (Pf0.75)	Resistive	Inductive	Motor (Pf0.75)		
	125V	3A 1A		10A	10A	0.5HP	21A	15A	1HP		
AC	250V	3A 1A		10A	10A	0.5HP	21A	15A	2HP		
DC	6V	3A 1A		10A	10A		21A	21A			
	12V	ЗA	1A	5A	3A		15A	15A			
	24V	1A	0.5A	5A	ЗA		8A	7A			
	60V	1A	0.5A	1A	0.5A		1A	0.5A			
	110V	0.5A	0.2A	0.5A	0.2A		0.5A	0.2A			
	220V	0.25A 0.1A		0.25A	0.1A		0.25A	0.1A			
Switch Standards:		EN 60730, EN	1 61058 and UL	508							

### Approvals Available CE, BEAB, CSA, DEMCO, IMQ, KEMA, NEMCO, OVE, SEMCO, SET I, SEV, UL, VDE. Approved to BS 3955 part III

### Note: Dry Switching

If switching low power circuits, low current (4 to 100 milliamperes) and low voltage (below 30V), consult herga for special switches.

NB - Herga do not accept liability for any vacuum operated device used outside the pressure range specified by the company.

1999

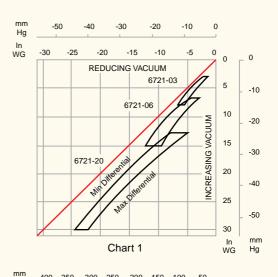
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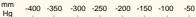
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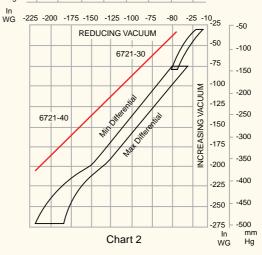


### Suitability for use with different operating media

Vacuum Medium	Diaphragms
Chemical Compatibility	6721
Acetone	
Ammonia (Liquid)	
Amyl Alcohol to 20°C	$\checkmark$
Automotive Brake Fluid	$\checkmark$
Beer	$\checkmark$
Benzyl Alcohol	x
Butane	1
Carbon Dioxide - Dry	1
Citric Acid	1
Copper Sulphate (Sol.)	$\checkmark$
Compressed Air	1
Cutting Oil	1
Diesel Oil	1
Detergent Solution	1
Fuel Oil	1
Glycol	1
Hydraulic Oil	1
Hydrogen	1
Lubricating Oil	1
Milk	$\checkmark$
Mineral Oil	1
Natural Gas	1
Nitric Acid (Dil.)	x
Oxygen to 70°C	1
Petrol	1
Plating Solution (Chrome)	$\checkmark$
Salt Water	
Sewage	1
Sulphur Dioxide	×
Turpentine	1
Vinegar	$\checkmark$
Water	1







Note: Differentials are approximate

 $\checkmark$  = Suitable with modification

Key:

× = Not suitable

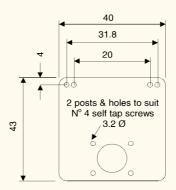
2mm thick mounting plate part N° 3351-109

For 6721/2 switches

Note:

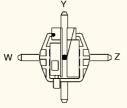
Longer screws will penetrate diaphragm chamber, please order part N<sup>o</sup> 2112-643-047 Qty 2

✓ = Recommended



Back entry option available

Alternative Vacuum Connections Back entry 1/8" BSPT and NPT Connectors



Non standard tube connection positions for 4mm Ø spout connection.



Back entry 6.4mm Ø spout



Back entry 4mm Ø spout

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### **Pressure Conversion Table**



Ра

38610

39300

39990

40680

41370

42060

42750

43440

44130

44820

45500

46190

46880

47570

48260

48950

49640

50330

51020

51710

52400

53780

55160

56540

57920

59290

60670

62050

63430

64810

66190

67570

68950

75840

82740

98630

96520

101400

103400

110300

117200

124100

131000

137900

172400

kPa

38.61

39.30

39.99

40.68

41 37

42.06

42.75

43.44

44.13

44.82

45.50

46.19

46.88

47.57

48.26

48.95

49.64

50.33

51.02

51.71

52.40

53.78

55.16

56.54

57.92

59.29

60.67

62.05

63.43

64.81

66 19

67.57

68.95

75.84

82.74

89.63

96.52

101.4

103.4

110.3

117.2

124.1

131.0

137.9

172.4

	-	-						-									
P.S.I	in/H <sub>2</sub> 0	in/Hg	mm/H <sub>2</sub> 0	mm/Hg	kg/cm <sup>2</sup>	bar	mbar	Pa	kPa	P.S.I	in/H <sub>2</sub> 0	in/Hg	mm/H <sub>2</sub> 0	mm/Hg	kg/cm <sup>2</sup>	bar	mbar
1.0	27.71	2.036	703.1	51.75	.0703	.0689	68.95	6895	6.895	5.6	155.0	11.40	3937	289.6	.3937	.3861	386.1
1.1	30.45	2.240	773.4	56.89	.0773	.0758	75.84	7584	7.584	5.7	157.8	11.60	4008	294.8	.4007	.3930	393.0
1.2	33.22	2.443	843.7	62.06	.0844	.0827	82.74	8274	8.274	5.8	160.5	11.81	4078	299.9	.4078	.3999	399.9
1.3	35.98	2.647	914.0	67.23	.0914	.0896	89.63	8963	8.963	5.9	163.3	12.01	4148	305.1	.4148	.4068	406.8
1.4	38.75	2.850	984.3	72.40	.0984	.0965	96.52	9652	9.652	6.0	166.1	12.22	4218	310.3	.4218	.4137	413.7
1.5	41.52	3.054	1055	77.57	.1055	.1034	103.4	10340	10.34	6.1	168.8	12.42	4289	315.5	.4289	.4206	420.6
1.6	44.29	3.258	1125	82.74	.1125	1103	110.3	11030	11.03	6.2	171.6	12.62	4359	320.6	.4359	.4275	427.5
1.7	47.06	3.461	1195	87.92	.1195	.1172	117.2	11720	11.72	6.3	174.4	12.83	4429	325.8	.4429	.4344	434.4
1.8	49.82	3.665	1266	93.09	.1266	1241	124.1	12410	12.41	6.4	177.2	13.03	4500	331.0	.4500	.4413	441.3
1.9	52.59	3.868	1336	98.26	.1336	1310	131.0	13100	13.10	6.5	179.9	13.23	4570	336.1	.4570	.4482	448.2
2.0	55.36	4.072	1406	103.4	.1406	.1379	137.9	13790	13.79	6.6	182.7	13.44	4640	341.3	4640	.4550	455.0
2.1	58.13	4.276	1476	108.6	.1476	.1448	144.8	14480	14.48	6.7	185.5	13.64	4711	346.5	.4710	.4619	461.9
2.2	60.90	4.479	1547	113.8	.1547	.1517	151.7	15170	15.17	6.8	188.2	13.84	4781	351.7	.4781	.4688	468.8
2.3	63.67	4.683	1617	118.9	.1617	.1586	158.6	15860	15.86	6.9	191.0	14.05	4851	356.8	.4851	.4757	475.7
2.4	66.43	4.886	1687	124.1	.1687	.1655	165.5	16550	16.55	7.0	193.8	14.25	4922	362.0	.4921	.4826	482.6
2.5	69.20	5.090	1758	129.3	.1758	.1724	172.4	17240	17.24	7.1	196.5	14.46	4992	367.2	.4992	.4895	489.5
2.6	71.97	5.294	1828	134.5	.1828	.1793	179.3	17930	17.93	7.2	199.3	14.66	5062	372.3	.5062	.4964	496.4
2.7	74.74	5.497	1898	139.6	.1898	.1862	186.2	18620	18.62	7.3	202.1	14.86	5132	377.5	.5132	.5033	503.3
2.8	77.51	5.701	1969	144.8	.1968	.1930	193.0	19300	19.30	7.4	204.8	15.07	5203	382.7	.5203	.5102	510.2
2.9	80.27	5.904	2039	150.0	.2039	.1999	199.9	19990	19.99	7.5	207.6	15.27	5273	387.9	.5273	.5171	517.1
3.0	83.04	6.108	2109	155.1	.2109	.2068	206.8	20680	20.68	7.6	210.4	15.47	5343	393.0	.5343	.5240	524.0
3.1	85.81	6.312	2180	160.3	.2180	.2137	213.7	21370	21.37	7.8	215.9	15.88	5484	403.4	.5484	.5378	537.8
3.2	88.58	6.515	2250	165.5	.2250	.2206	220.6	22060	22.06	8.0	221.4	16.29	5625	413.7	.5625	.5516	551.6
3.3	91.35	6.719	2320	170.7	.2320	.2275	227.5	22750	22.75	8.2	227.0	16.70	5765	424.1	.5765	.5654	565.4
3.4	94.11	6.922	2390	175.8	.2390	.2344	234.4	23440	23.44	8.4	232.5	17.10	5906	434.4	.5906	.5792	579.2
3.5	96.88	7.126	2461	181.0	.2461	.2413	241.3	24130	24.13	8.6	238.0	17.51	6047	444.7	.6046	.5929	592.9
3.6	99.65	7.330	2531	186.2	.2531	.2482	248.2	24820	24.82	8.8	243.6	17.92	6187	455.1	.6187	.6067	606.7
3.7	102.4	7.533	2601	191.3	.2601	.2551	255.1	25510	25.51	9.0	249.1	18.32	6328	465.4	.6328	.6205	620.5
3.8	105.2	7.737	2672	196.5	.2672	.2620	262.0	26200	26.20	9.2	254.7	18.73	6468	475.8	.6468	.6343	634.3
3.9	108.0	7.940	2742	201.7	.2742	.2689	268.9	26890	26.89	9.4	260.2	19.14	6609	486.1	.6609	.6481	648.1
4.0	110.7	8.144	2812	206.9	.2812	.2758	275.8	27580	27.58	9.6	265.7	19.54	6750	496.5	.6749	.6619	661.9
4.1	113.5	8.348	2883	212.0	.2883	.2827	282.7	28270	28.27	9.8	271.3	19.95	6890	506.8	.6890	.6757	675.7
4.2	116.3	8.551	2953	217.2	.2953	.2896	289.6	28960	28.96	10.0	276.8	20.36	7031	517.1	.7031	.6895	689.5
4.3	119.0	8.775	3023	222.4	.3023	.2965	296.5	29650	29.65	11.0	304.5	22.40	7734	568.9	.7734	.7584	758.4
4.4	121.8	8.958	3094	227.5	.3094	.3034	303.4	30338	30.34	12.0	332.2	24.43	8437	620.6	.8437	.8274	827.4
4.5	124.6	9.162	2164	232.7	.3164	.3103	310.3	31030	31.03	13.0	359.8	26.47	9140	672.3	.9140	.8963	896.3
4.6	127.3	9.366	3234	237.9	.3234	.3172	317.2	31720	31.72	14.0	387.5	28.50	9843	724.0	.9843	.9652	965.2
4.7	130.1	9.569	3304	243.1	.3304	.3240	324.0	32400	32.40	14.7	406.9	29.93	10340	760.2	1.033	1.014	1014
4.8	132.9	9.773	3375	248.2	.3375	.3310	331.0	33100	33.10	15.0	415.2	30.54	10550	775.7	1.055	1.034	1034
4.9	135.6	9.976	3445	253.4	.3445	.3378	337.8	33780	33.78	16.0	442.9	32.58	11250	827.4	1.125	1.103	1103
5.0	138.4	10.18	3515	258.6	.3515	.3447	344.7	34470	34.47	17.0	470.6	34.61	11950	879.1	1.195	1.172	1172
5.1	141.2	10.10	3586	263.7	.3586	.3516	351.6	35160	35.16	18.0	498.2	36.65	12660	930.9	1.265	1.241	1241
5.2	143.9	10.50	3656	268.9	.3656	.3585	358.5	35850	35.85	19.0	525.9	38.68	13360	982.6	1.336	1.310	1310
5.3	146.7	10.33	3726	274.1	.3726	.3654	365.4	36540	36.54	20.0	553.6	40.72	14060	1034	1.406	1.379	1379
5.4	149.5	10.75	3797	279.3	.3797	.3723	372.3	37230	37.23	25.0	692.0	50.90	17580	1293	1.758	1.724	1724
5.5	149.5	11.20	3867	284.4	.3867	.3792	379.2	37230	37.92		002.0	55.50	17000	1230			
0.0	102.2	1	0007	201.1		.01.02	010.2	01020	01.02								

**Pressure Conversions** Lbf/ln<sup>2</sup> = Pounds force per square inch (psi)

1 psi = 27.6804 in/H<sub>2</sub>O 1 psi = 2.03602 in/Hg 1 psi = 68.9476 mbar 1 psi = 703.082 mm/H<sub>2</sub>O 1 psi = 0.0689 bar  $1 \text{ in/H}_{2}\text{O} = 25.4 \text{ mm/H}_{2}\text{O}$  $1 in/H_2O = 1.86832 mm/Hg$  $1 \text{ in/H}_2\text{O} = 2.49089$ 

Flow

dm<sup>3</sup>/s = Cubic decimetres per second ft<sup>3</sup>/Min = Cubic feet per minute 1/Min = Litres per minute

1dm<sup>3</sup>/s = 2.119 ft<sup>3</sup>/Min 1dm<sup>3</sup>/s = 60 Litres/Min 1Lt/Min = 0.0353 ft<sup>3</sup>/Min Liquid MI = Millilitre FI oz = Fluid Ounce

1MI = 0.0352 FI/oz 1 Litre = 0.21998 UK Gallon

#### Force

N = Newton Lbf = Pounds force Kgf = Kilogram force Weight

1 N = 0.225Lbf 1 N = 0102Kgf

Kg = Kilogram Lb = Pound

1Kg = 2.2045Lb

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### **Certification Markings**



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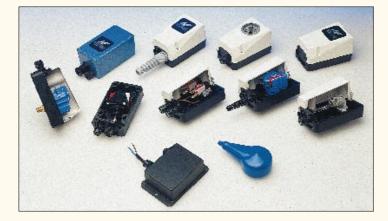
Country	Agency	<u>Mark</u>	<u>Country</u>	<u>Agency</u>	<u>Mark</u>
Australia	SAA	$\bigtriangledown$	Japan	MITI	
Austria	OVE	ÖVE	Netherlands	KEMA	KEUR
Belgium	CEBEC		New Zealand	SECV SECQ SECWA	POPROVED TO
Canada	CSA			EANSW ETSA HECT SANZ	ENLAND STAND
Denmark	DEMKO	$(\mathbf{D})$	Neces		
Europe	MANY	CE	Norway	NEMKO	
Finland	FEI	(FI)	Republic of South Africa	SABS	
		$\bigcirc$	Sweden	SEMKO	S
France	UTE		Switzerland	SEV	(+ 5
Germany	VDE		United Kingdom	ASTA	
				BSI	
India	ISI	121		BEAB	BEAB
Ireland	IIRS	$\bigcirc$	United States	UL	
Italy	IMQ				<b>B</b>

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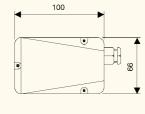
### **Accessories: Switch Housings**

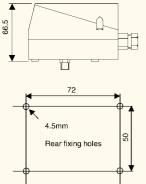




### Benefits

- IP40 and IP67 Housings with rear fixing positions
- Variations of air or electrical connections
- Unlimited options available contact herga with your requirements





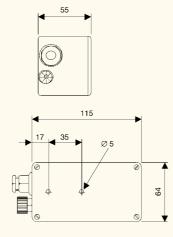
#### Part Number: 6819-00 Variants

The most economical and compact housing, produced especially for hergair switches. Double insulated sealed enclosure is moulded in two tone black and white ABS as standard. The lid has an integral rubber sealing gasket and captive screws. Mounting holes and lid fixing screws are outside the seal, thus preventing the ingress of moisture and making the box waterproof to IP65.

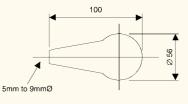
The standard 6819-00 housing is supplied with a cable gland for cable diameter 5mm to 7mm and a type 6418-00 air tube connector is fitted.

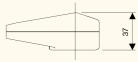
The housing is suitable for all airswitches except model 6806.

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- Back entry versions for pressure switch connections
- Available for all herga switching systems
- Custom designed labels and housing colours available for volume OEM requirements





Part Number: 6819-01

diameter.

Blue flexible PVC protective boot for

air and pressure switch types 6721,

Covers all electrical connections and

grips round outside of switch body.

Can be used with cable 5mm to 9mm

We recommend a cable restraint is

used in connection with this part.

6731, 6741, 6861, 6863 and 6869.

#### Part Number: 6816-00 Variants

Diecast aluminium housing for airswitch types except 6806 models. Finished in blue stove enamel. Ideal for use where electrical screening is required.

Other colour variants are available upon request as are specified fixing positions to suit your requirements.

Where a number of airswitches are to be fitted in one box, herga can supply a variety of special boxes complete with multi-way air connectors and electrical connections as required.

#### Note:

Herga can offer many other variants of electrical housings in size and colour up to IP67. We also manufacture world-wide (plug in) switch housings with or without cordsets in conjunction with our airswitching systems. Please contact us with your specific requirements.

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### Rapid Response Form (Photostat and fax back)

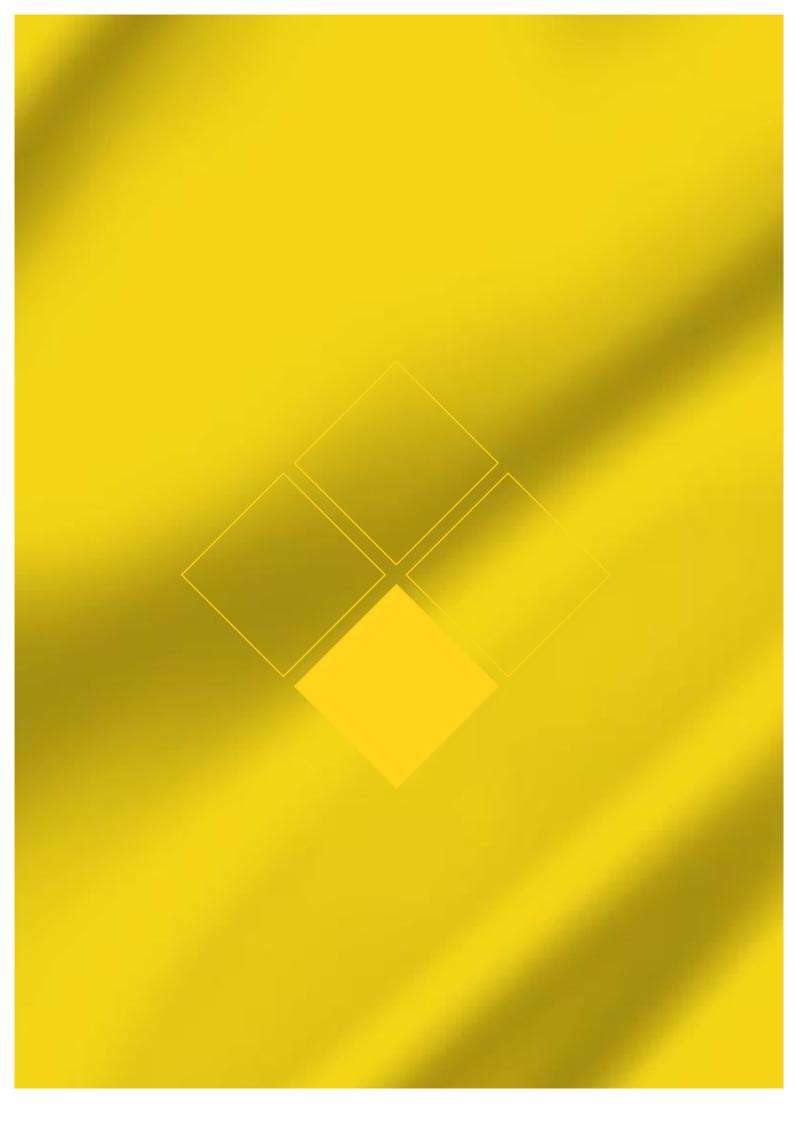
It is our goal to give you a response within 24 hours. By completing this form it will help us to help you! Thank you.

CUSTOMER						
CONTACT NAME			TEL:		FAX:	
		PRESSURE	·			VACUUM
INDUSTRY: M	/IEDICAL POOL & SP/			STRIAL	OTHER	
CLASSIFICATION:		OR / RESELLER	END USER	THER		
REQUIREMENTS: _	PRES	SURE	VACUUM		DIFFEREI	NTIAL PRESSURE.
IF PRESSURE OR V	ACUUM MEASURED GAUGI	E (AS IN CATALOGUI	E) OR ABSOLUTE?			
I	NCHES WG	PSI GAUGE	OPERATING RANGE:		то	±
HERGA TO SET	WE WILL SET	ON RISING	ON FALLING			
MAX PRESSURE/VA	CUUM UNIT WILL BE SUBJI	ECTED TO		SETTING PR	REFERENCE ±	
MAX DIFFERENTIAL	. (DIFF. BETWEEN RISE & F.	ALL)		MIN DIFFER	RENTIAL	
MEDIA GAS	TEMPEI	RATURE	AMBIEN	Г	то	
LIQUID	TEMPE	RATURE	MEDIA		то	
RE	TS AC SISTIVE D: UL CSA C IRATION: SINGLE	INDUCTIVE LOAD	DESCRIPTION			
MECHANICAL: MO 1/8" NPT BRASS	UNTING PREFERENCE 1/3		_			
APPLICATION (WHA	T WILL SWITCH CONTROL?	?)				
QUANTITY REQUIRE	ED FOR PROTOTYPE?			REQUIRED	DATE	
ANNUAL PRODUCTI	ION QUANTITY?			START DAT	TE	
CURRENT SWITCH	USED?			PRICE RAN	IGE	
ANY PROBLEMS WI	TH PRESENT UNIT?					

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