

herga



Pressure & Vacuum Switches

SWITCHING AND SENSING SOLUTIONS



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.

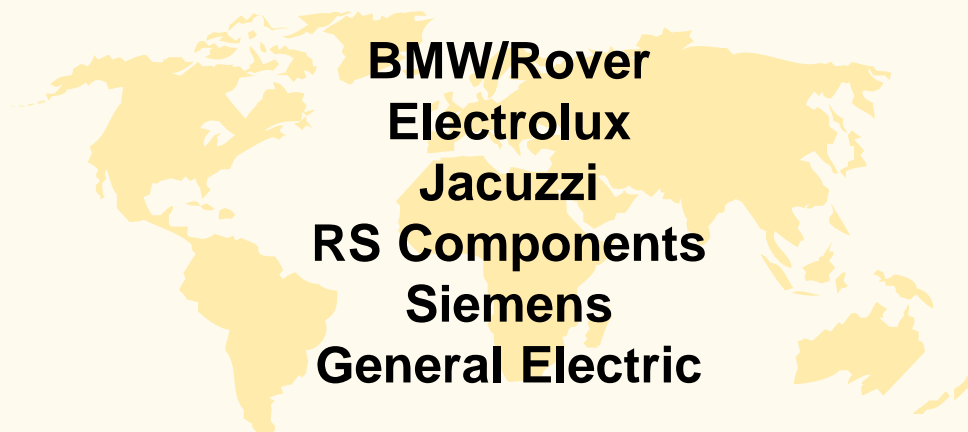
Continuous Improvement

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.

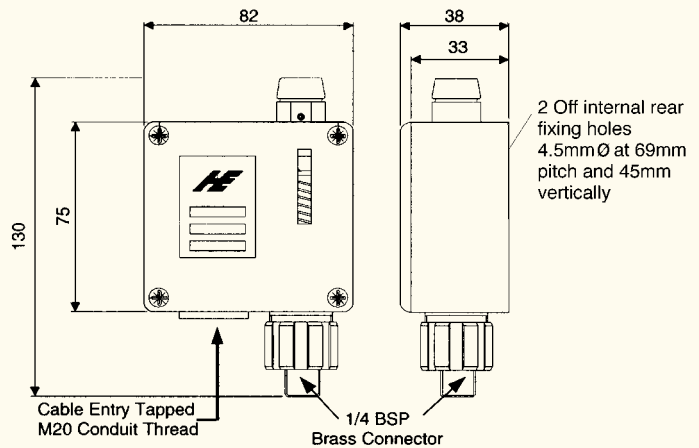
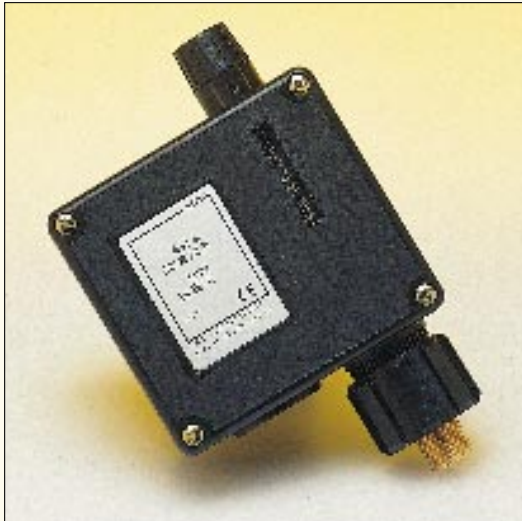
How can we help you?

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



| | | |
|---|---|---------------------------|
| <p>6702 High Pressure Switch High pressure switch all plastic construction. Ranges 1.4-13.8 Bar (20-200 PSI). Two (2) Pole Electrical Switching.</p> |  | <p>Page PV1 & 2</p> |
| <p>6773 Double Diaphragm Pressure Switch Double diaphragm construction to meet double insulation requirements of EN 60335-2-60. Water presence detection.</p> |  | <p>Page PV3</p> |
| <p>6761 and 6763 Low Air Pressure Vacuum Switches 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).</p> |  | <p>Page PV4</p> |
| <p>6741 and 6742 Medium Pressure Switches 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.</p> |  | <p>Page PV5 & 6</p> |
| <p>6731 and 6732 Low Pressure Switches 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.</p> |  | <p>Page PV7 & 8</p> |
| <p>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).</p> |  | <p>Page PV9 & 10</p> |
| <p>6721 and 6722 Vacuum Switches 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.</p> |  | <p>Page PV11 & 12</p> |
| <p>Pressure Conversion Chart For more commonly used measurements, including flow, liquid, force and weight equivalents.</p> |  | <p>Page PV13</p> |
| <p>Certification Markings Covers most worldwide authorities/certification marks.</p> |  | <p>Page PV14</p> |
| <p>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.</p> |  | <p>Page PV15</p> |
| <p>Fax Back Sheet For your fast quotation service.</p> |  | <p>Page PV16</p> |



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

6702 - [] [] [] [] - 0 0 0 0

1. Model Number

2. Operating Pressure

- A 20 - 50 PSI (1.40 - 3.45 Bar) Red Spring
- B 40 - 100 PSI (2.76 - 6.89 Bar) White Spring
- C 80 - 200 PSI (5.52 - 13.79 Bar) Blue Spring

3. Additional Operating (Springs)

- A 20 - 50 PSI (1.40 - 3.45 Bar)
- B 40 - 100 PSI (2.76 - 6.89 Bar)
- C 80 - 200 PSI (5.52 - 13.79 Bar)
- D 20 - 50 PSI (1.40 - 3.45 Bar) & 40 - 100 PSI (2.76 - 6.89 Bar)
- E 40 - 100 PSI (2.76 - 6.89 Bar) & 80 - 200 PSI (5.52 - 13.79 Bar)
- F 80 - 200 PSI (5.52 - 13.79 Bar) & 20 - 50 PSI (1.40 - 3.45 Bar)
- G 20 - 50 PSI (1.40 - 3.45 Bar) & 40 - 100 PSI (2.76 - 6.89 Bar) & 80 - 200 PSI (5.52 - 13.79 Bar)
- Z No additional springs supplied

4. Electrical Microswitching Rating

- A 21A 250V ac Silver Change Over Contacts
- B 0.1A 250V ac Gold Change Over Contacts
- C 0.1A 24V ac/dc Gold Change Over Contacts

5. Packaging and Label Option

- A Herga individually packed in plain carton
- B Herga vacuum form tray (for quantities 10+)

6702 ~ High Pressure Switch



6702 Pressure Switch

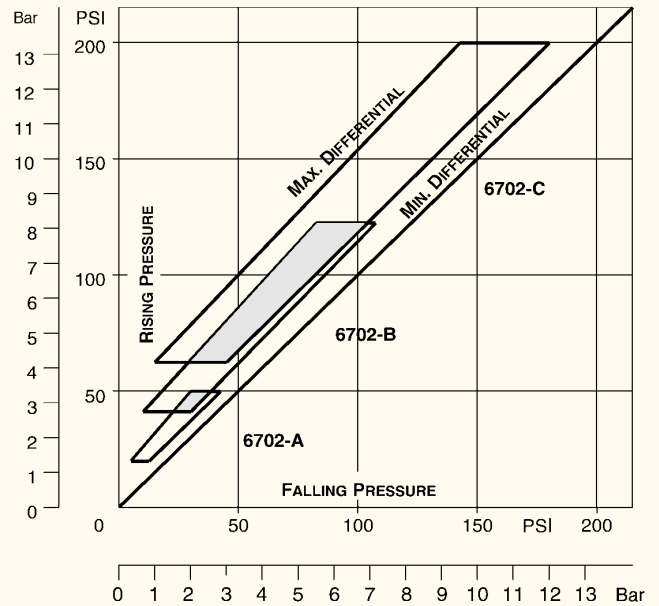
The industrial pressure switch is moulded entirely in plastic with the exception of the pressure connection and is water, oil and dust proof to IP65. The switches have excellent repeat accuracy, even over widely varying ambient conditions.

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



Note: differentials are approximate

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 Expectancy | Mechanical | 1.0 x 10 ⁶ | | |
| | Electrical | 2.0 x 10 ⁵ @ 10A 1.0 x 10 ⁴ @ 21A | | |
| Electrical Rating | | Max. Electrical Load | | |
| | Voltage | Res. | Ind. | (Pf 0.75 Motor) |
| AC | 250V | 21A | | 1HP |
| | 250V | 21A | 8A | 2HP |
| | 125V | 21A | | |
| DC | 6V | 21A | 21A | |
| | 12V | 15A | 15A | |
| | 24V | 8A | 7A | |
| | 60V | 1A | 0.5A | |
| | 110V | 0.5A | 0.2A | |
| | 220V | 0.25A | 0.1A | |

Gold Contact Microswitch Data

| | | | | |
|-------------------------|------------|---|-------|-----------------|
| Average Life Expectancy | Mechanical | 1.0 x 1.0 ⁶ | | |
| | Electrical | 2.0 x 10 ⁵ @ 10A 1.0 x 10 ⁴ @ 21A | | |
| Electrical Rating | | 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

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

Suitability for use with different operating media

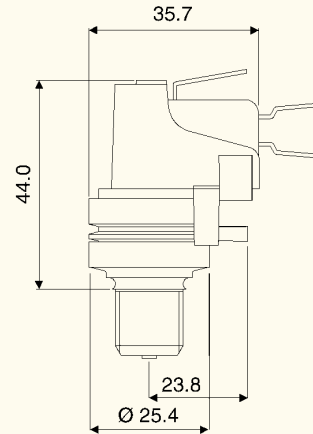
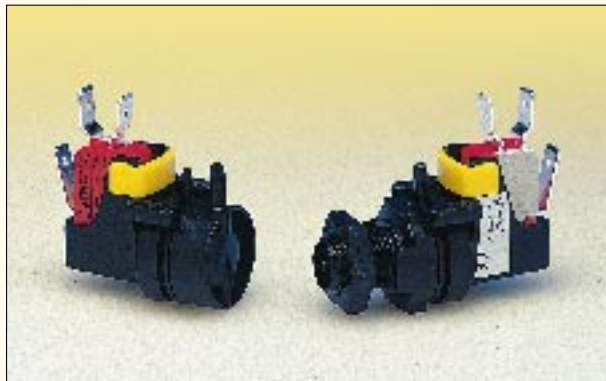
| Pressure Medium | 6702 |
|---------------------------|-------------------------------------|
| Acetone | <input checked="" type="checkbox"/> |
| Ammonia (Liquid) | <input checked="" type="checkbox"/> |
| Amyl Alcohol to 20°C | <input checked="" type="checkbox"/> |
| Automotive Brake Fluid | <input checked="" type="checkbox"/> |
| Beer | <input checked="" type="checkbox"/> |
| Butane | <input checked="" type="checkbox"/> |
| Carbon Dioxide (Dry) | <input checked="" type="checkbox"/> |
| Citric Acid | <input checked="" type="checkbox"/> |
| Copper Sulphate (Sol.) | <input checked="" type="checkbox"/> |
| Compressed Air | <input checked="" type="checkbox"/> |
| Cutting Oil | <input checked="" type="checkbox"/> |
| Diesel Oil | <input checked="" type="checkbox"/> |
| Detergent Solution | <input checked="" type="checkbox"/> |
| Fuel Oil | <input checked="" type="checkbox"/> |
| Glycol | <input checked="" type="checkbox"/> |
| Hydraulic Oil | <input checked="" type="checkbox"/> |
| Hydrogen | <input checked="" type="checkbox"/> |
| Lubricating Oil | <input checked="" type="checkbox"/> |
| Milk | <input checked="" type="checkbox"/> |
| Mineral Oil | <input checked="" type="checkbox"/> |
| Natural Gas | <input checked="" type="checkbox"/> |
| Oxygen to 70°C | <input checked="" type="checkbox"/> |
| Petrol | <input checked="" type="checkbox"/> |
| Plating Solution (Chrome) | <input checked="" type="checkbox"/> |
| Salt Water | <input checked="" type="checkbox"/> |
| Sewage | <input checked="" type="checkbox"/> |
| Turpentine | <input checked="" type="checkbox"/> |
| Vinegar | <input checked="" type="checkbox"/> |
| Water | <input checked="" type="checkbox"/> |

✓ = Recommended = Suitable with modifications

Note: Dry Switching - if switching low power circuits, low current (4 to 100 milliampères) 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.

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 - A [] [] [] - A [] [] []

1. Model Number

2. Pressure Range

A 250mm H₂O to 760mm H₂O Standard

3. Caps

- A Side Entry Std Spout Std Orientation 4.0mm Spout
- B Side Entry Std Spout Rotated 90° Viewed From Cap 4.0mmØ Spout
- C Side Entry Std Spout Rotated 180° Viewed From Cap 4.0mmØ Spout
- D Side Entry Std Spout Rotated 270° Viewed From Cap 4.0mmØ Spout
- E Side Entry Long Spout 4.0mmØ Std Orientation
- F Side Entry Long Spout Rotated 90° Viewed From Cap 4.0mmØ Spout
- G Side Entry Long Spout Rotated 180° Viewed From Cap 4.0mmØ Spout
- H Back Entry Short Thread 4.0mmØ Spout. Not suitable for 'O' ring
- J Back Entry Long Thread 4.0mmØ Spout
- K Back Entry Long Thread 2.0mmØ Spout
- L Long 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

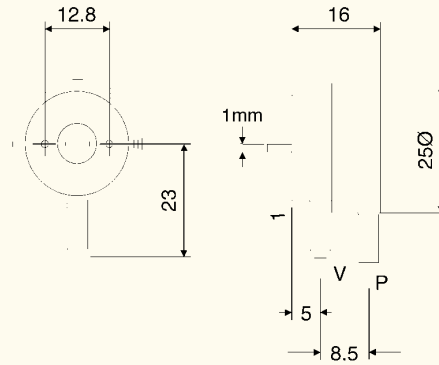
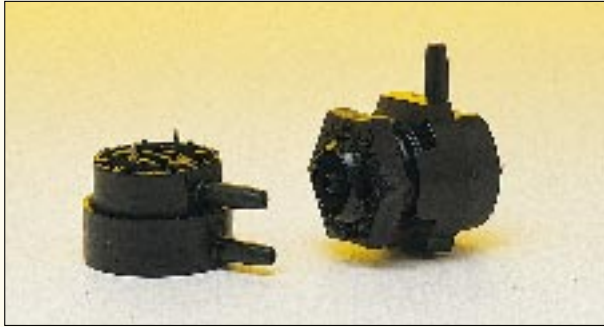
7. Terminal Combinations

- A 3 Blade QC 6.3mm x 0.8mm
- B 2 Blade QC 6.3mm x 0.8mm Normally Open Contacts
- C 2 Blade QC 6.3mm x 0.9mm 90° Crank Normally Open Contacts

8. Microswitch Rating

- A 0.1A 125/250V ac Gold Contacts (not available with option 7c)
- B 10A 1/4 HP 125/250V ac
- C 21A 250V ac 1 HP 125V ac 2 HP 250V ac

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
- ❖ 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

Printed Circuit Board Mounting Switches

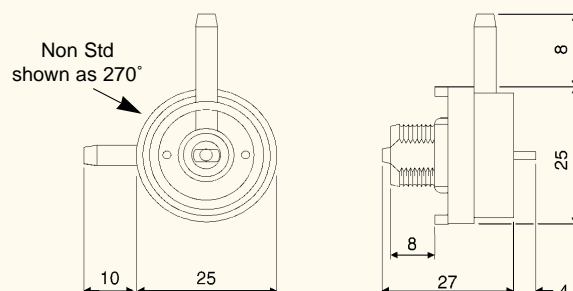
| Model No | 6761 (Vacuum) | 6763 (Pressure) |
|--|--|--|
| Pressure/Vacuum range | Minimum 150mm (6 ins) Wg Maximum 670 millibar (9.8) PSI | 150mm (6 ins) Wg 1.0 Bar (14.7) PSI |
| Maximum Differential | Approximately 0.06 ins WG | Approximately 0.06 ins WG |
| Pressure/Vacuum Range | Adjustable variants | 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 bleed) | 8 - 30cc/Min @ 31 ins WG | 8 - 30cc/Min @ 31 ins WG |
| Pressure Connection | 4mm Ø spout for side and back entry 2mm Ø spout for back entry only Lower spout 'V' vacuum | 4mm Ø spout for side and back entry 2mm Ø spout for back entry only Upper spout 'P' pressure |
| Connecting Tube Reference | 4mm spout = 2311-01 or 2311-08 2mm spout = 2311-03 | 4mm spout = 2311-01 or 2311-08 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) |

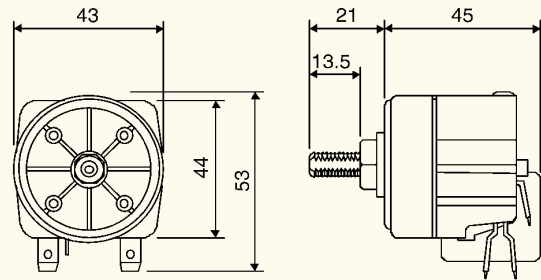
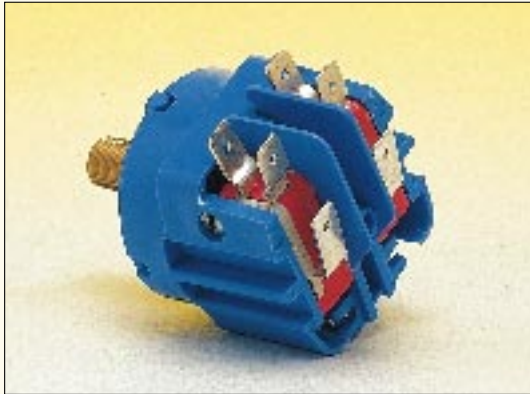
Electrical Data

| | | |
|---|--|------------------------------------|
| 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 pressure settings) | |
| Dry Switching Maximum Recommended 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 ⁶ cycles | 1 x 10 ⁶ 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.





Benefits

- ❖ Switches set to specific rising or falling pressures
- ❖ UL recognised versions available
- ❖ High performance repeatability
- ❖ Single or double pole switching
- ❖ Customised settings available upon request
- ❖ Various connector options available

Silver Contact Microswitch Data

| | | | | |
|-------------------------|----------------------|---|------|-----------------|
| Average Life Expectancy | Mechanical | 1.0 x 10 ⁶ | | |
| | Electrical | 2.0 x 10 ⁵ @ 10A 1.0 x 10 ⁴ @ 21A | | |
| Electrical Rating | Max. Electrical Load | | | |
| | Voltage | Res. | Ind. | (Pf 0.75 Motor) |
| AC | 250V | 21A | | 1HP |
| | 250V | 21A | 8A | |
| | 125V | 21A | | 1HP |
| DC | 6V | 21A | 21A | |
| | 12V | 15A | 15A | |
| | 24V | 8A | 7A | |
| | 60V | 1A | 0.5A | |
| | 110V | 0.5A | 0.1A | |
| | 220V | 0.25A | 0.1A | |

| 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 1/8" 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 |

Gold Contact Microswitch Data

| | | | | |
|-------------------------|----------------------|---|-------|-----------------|
| Average Life Expectancy | Mechanical | 1.0 x 10 ⁶ | | |
| | Electrical | 2.0 x 10 ⁵ @ 10A 1.0 x 10 ⁴ @ 21A | | |
| Electrical Rating | Max. Electrical Load | | | |
| | Voltage | Res. | Ind. | (Pf 0.75 Motor) |
| AC | 250V | 0.1A | 0.05 | N/A |
| UL/CSA Only | 125V | 0.1A | ----- | ----- |

| Model No | Pressure Range | | Differential (Fixed) |
|----------|----------------|-------------|----------------------|
| | P.S.I | Bar | |
| 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 |

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.

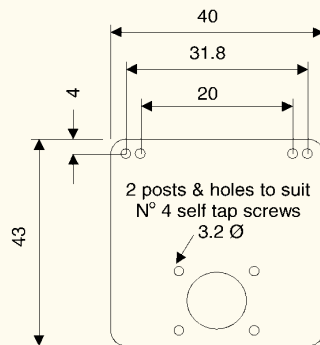
Special options are available for quantity orders

- ❖ Diaphragms in silicon rubber, nitrile, EPDM
- ❖ Switches with wide or close differentials
- ❖ Springs in stainless steel
- ❖ NPT connectors available

Suitability for use with different operating media

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

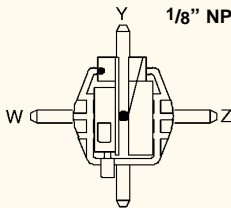
Key: ✓ = Recommended
 ✓ = Suitable with modification
 ✗ = Not suitable



2mm thick mounting plate
 Part N° 3351-109
 for 6742-20 to 6742-60

Note:
 Longer screws will penetrate
 diaphragm chamber, please order
 part N° 2112-643-047 Qty 2

Alternative Pressure Connections 1/8" NPT Pressure Connector

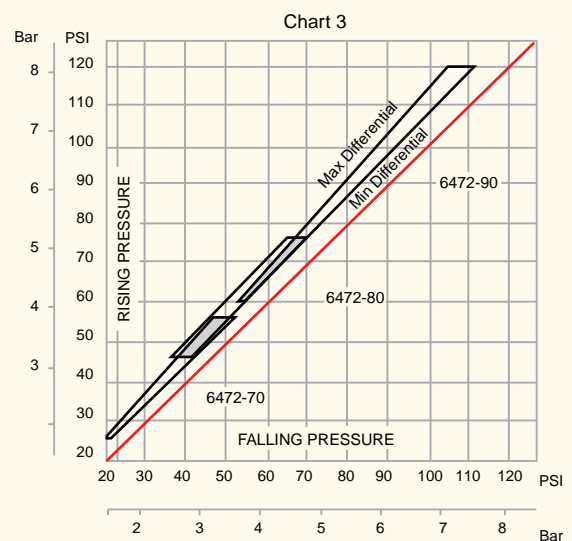
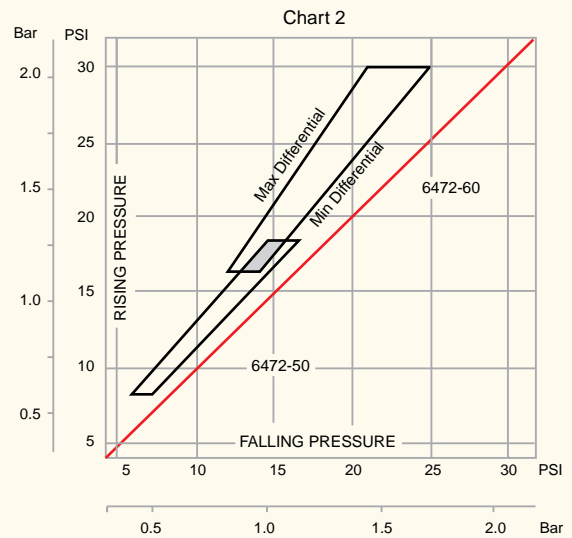
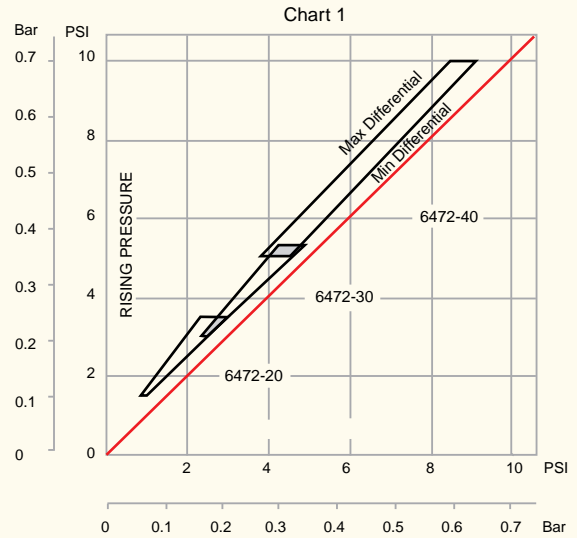


Non standard tube connection
 positions for 4mm Ø spout connection.
 Not recommended for pressure
 over 20 PSI

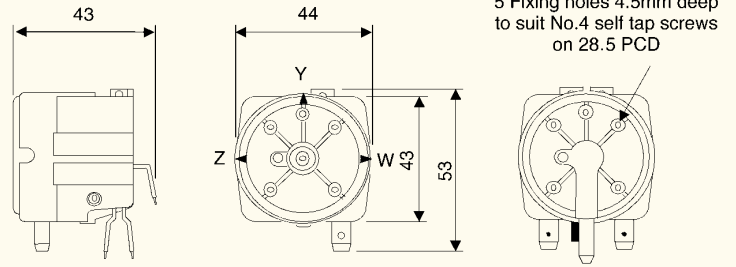
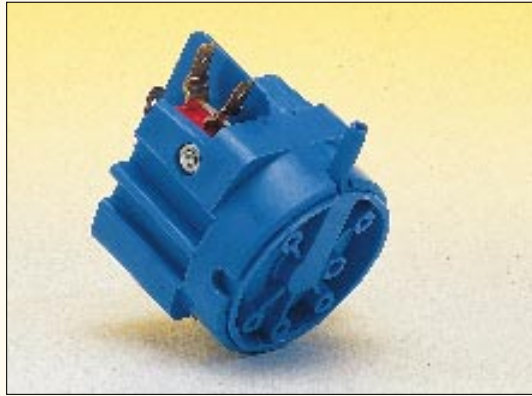
Back entry
 6.4mm Ø spout

Back entry
 4mm Ø spout

6742-20 to 6742-60 only



Note: Differentials are approximate



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 |
|---------------------|--------------------------|--------------------------|--------------------------|
| Electrical Switch | 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 |
| Pressure Connection | Side entry spout 4mm O/D | Side entry spout 4mm O/D | Side entry spout 4mm O/D |
| Setting Accuracy | ± 10% as std | ± 10% as std | ± 10% as std |
| Withstand Pressure | 25 PSI | 25 PSI | 25 PSI |
| Body Material | Nylon 12 | Nylon 12 | Nylon 12 |
| Diaphragm | Neoprene | Neoprene | Neoprene |
| Spring | Spring steel | Spring steel | Spring steel |
| Weight | 50gm | 50gm | 50gm |

| Model No | Pressure Range | | Differential (Fixed) |
|----------|----------------|------------|----------------------|
| | Inches Water | mm Water | |
| 6731-03 | 1.5 - 7 | 40 - 180 | See chart 1 |
| 6731-06 | 5 - 25 | 127 - 635 | See chart 1 |
| 6731-10 | 20 - 55 | 510 - 1400 | See chart 1 |

Special options are available for quantity orders

- ❖ Switches set to specific operating pressure, rising or falling
- ❖ Diaphragms in silicon rubber, nitrile, EPDM
- ❖ Switches with wide or close differentials
- ❖ Springs in stainless steel

| Pressure Switches | | 6731-03 | | 6731-06 | | | 6731-10 | | |
|-------------------------|------------|----------------------------|-----------|--------------------------------------|-----------|----------------|---------------------------------------|-----------|----------------|
| Average Life Expectancy | Mechanical | 2 x 10 ⁶ | | 2 x 10 ⁶ | | | 1.0 x 10 ⁶ | | |
| | Electrical | 0.2 x 10 ⁶ @ 1A | | 0.2 x 10 ⁶ @ 6A 50K @ 10A | | | 0.2 x 10 ⁶ @ 10A 10K @ 21A | | |
| Electrical Rating | | Max Electrical Load | | Max Electrical Load | | | Max Electrical Load | | |
| | Voltage | Resistive | Inductive | Resistive | Inductive | Motor (Pf0.75) | Resistive | Inductive | Motor (Pf0.75) |
| AC | 125V | 3A | 1A | 10A | 10A | 0.5HP | 21A | 15A | 1HP |
| | 250V | 3A | 1A | 10A | 10A | 0.5HP | 21A | 15A | 2HP |
| DC | 6V | 3A | 1A | 10A | 10A | | 21A | 21A | |
| | 12V | 3A | 1A | 5A | 3A | | 15A | 15A | |
| | 24V | 1A | 0.5A | 5A | 3A | | 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 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

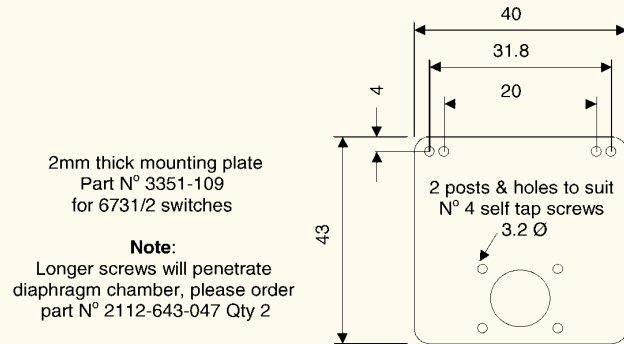
If switching low power circuits, low current (4 to 100 milliamperes) and low voltage (below 30V), consult herga for special switches.

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

Suitability for use with different operating media

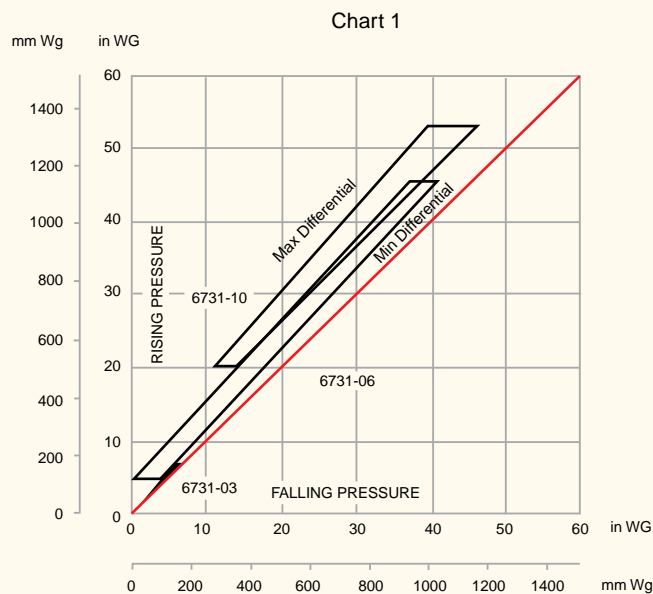
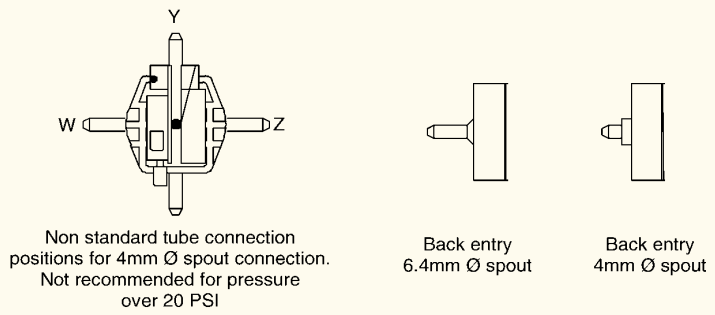
| Pressure Medium | Diaphragms |
|---------------------------|------------|
| Chemical Compatibility | 6731 |
| Acetone | ✓ |
| Ammonia (Liquid) | ✓ |
| Amyl Alcohol to 20°C | ✓ |
| Automotive Brake Fluid | ✓ |
| Beer | ✓ |
| Benzyl Alcohol | ✗ |
| Butane | ✓ |
| Carbon Dioxide - Dry | ✓ |
| Citric Acid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

Key: ✓ = Recommended
 ✓ = Suitable with modification
 ✗ = Not suitable

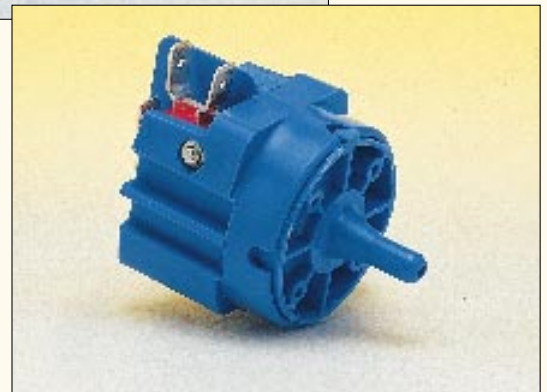
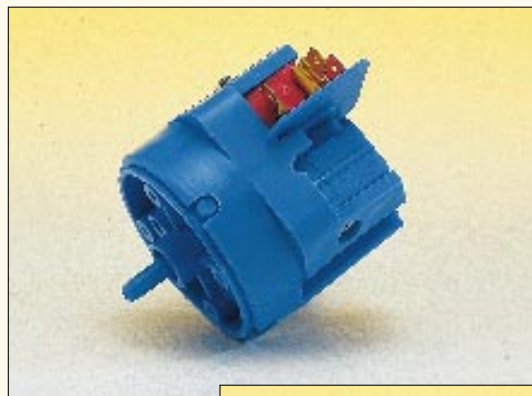


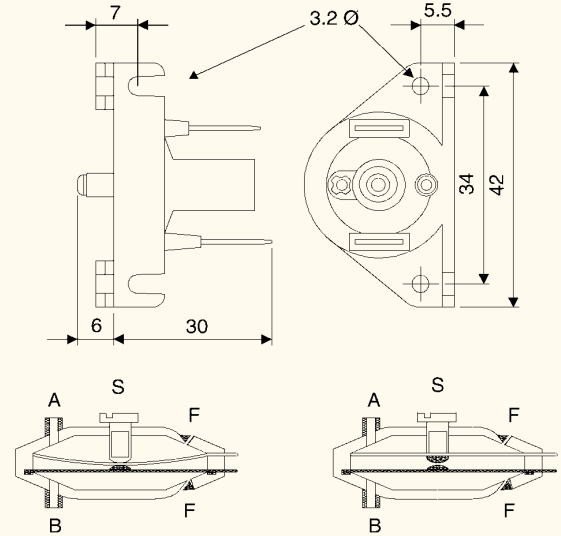
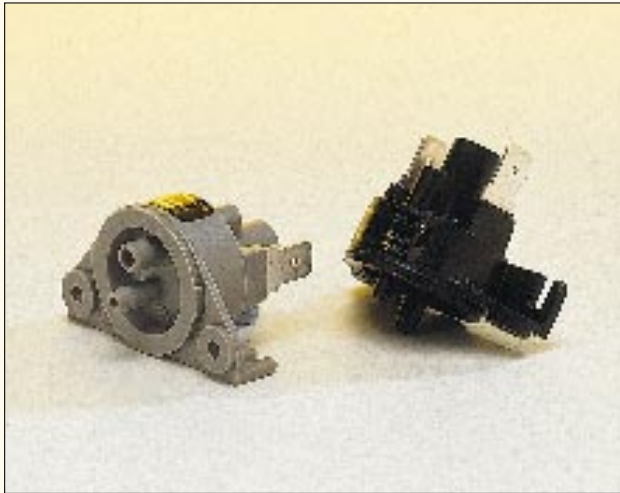
Alternative Pressure Connections

Back Entry 1/8" BSPT and NPT Pressure Connectors



Note: Differentials are approximate





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 - -

1. Model Number

2. Operation

- A Normally Open - Pressure
- B Normally Closed - Vacuum

3. Bleed Adjuster Options

- A Bleed A side only, Vacuum N/O to N/C, Pressure N/C to N/O
- B Bleed B side only, Vacuum N/O to N/C, Pressure N/C to N/O
- C Bleed both sides Vacuum / Pressure
- D No 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 ± 0.5" Std | B 2" WG ± 0.5" |
| C 3" WG ± 0.5" | D 4" WG ± 0.5" |
| E 6" WG ± 10% | F 8" WG ± 10% |
| G 10" WG ± 10% | H 12" WG ± 10% |
| J 14" WG ± 10% | K 16" WG ± 0 - 10% |

6. Packaging Options

- A Vacuum Form Tray (100 off volumes - ideal for OEM applications)
- B Poly Bag (individual)

| Technical Data | |
|--|---|
| Pressure/Vacuum range minimum | 25mm (1 in) Wg |
| maximum | 400mm (16 ins) Wg |
| Maximum Differential | 400mm (16 ins) Wg |
| Pressure Standard Factory Setting | 50mm (2.25 ins) Wg (Contacts Normally Open) Other settings available see note ²⁾ |
| Maximum Differential Between Pressure Connection | 0.34 Bar (5 PSI) |
| Body Withstand Pressure | 1.0 Bar (14.7 PSI) |
| Air Bleed Version | See choice options 3 & 4, other settings available, see note ³⁾ |
| Flow Rate Litre / Min | Standard 100 - 300 cc/Min @ 5 PSI |
| Connection Position | Base see note ²⁾ |
| 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 |

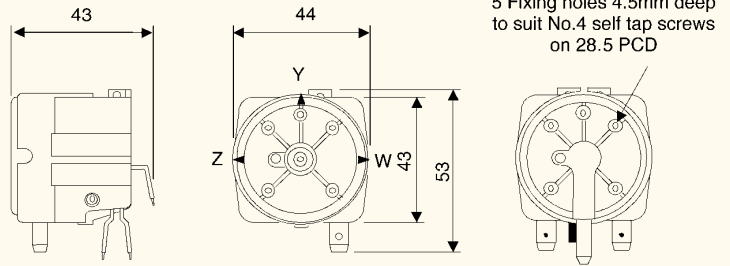
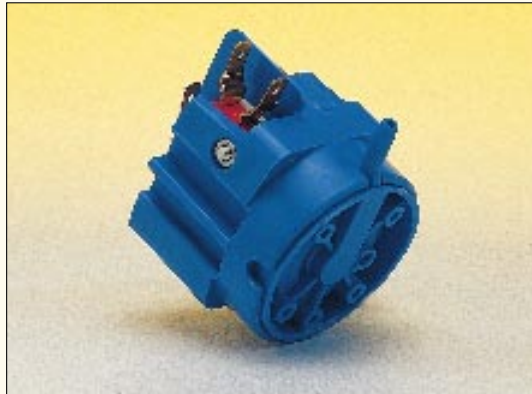
| Electrical Data | |
|-------------------------------|--|
| Switch | Single pole, N/Open / N/Closed |
| Contact Rating Maximum | 0.5A RES 250V ac (Maximum ratings may not be achieved at low pressure settings) |
| Dry Switching Minimum Current | 5mA 4V dc |
| Body | Glass filled nylon 12 |
| Diaphragm | Neoprene |
| Contacts | Gold plated silver mounted on phosphor-bronze blades |
| Contact Resistance | 0.05 Ohms |
| Mechanical Life | 1 x 10 ⁶ cycles |
| Weight (grams) | 10grms |

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.



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 available including tab configurations

| 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⁾ |

| Model No | Vacuum Range | | Differential (Fixed) |
|----------|--------------|-------------|----------------------|
| | Inches Water | mm 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

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

| Pressure Switches | | 6731-03 | | | 6731-06 | | | 6731-10 | | |
|-------------------------|------------|---|-----------|-----------|--------------------------------------|----------------|-----------|---------------------------------------|----------------|--|
| Average Life Expectancy | Mechanical | 2 x 10 ⁶ | | | 2 x 10 ⁶ | | | 1.0 x 10 ⁶ | | |
| | Electrical | 0.2 x 10 ⁶ @ 1A | | | 0.2 x 10 ⁶ @ 6A 50K @ 10A | | | 0.2 x 10 ⁶ @ 10A 10K @ 21A | | |
| Electrical Rating | | Max Electrical Load | | | Max Electrical Load | | | 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 | 3A | 1A | 5A | 3A | | 15A | 15A | | |
| | 24V | 1A | 0.5A | 5A | 3A | | 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 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.

Suitability for use with different operating media

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

Key: ✓ = Recommended
 ✓ = Suitable with modification
 ✗ = Not suitable

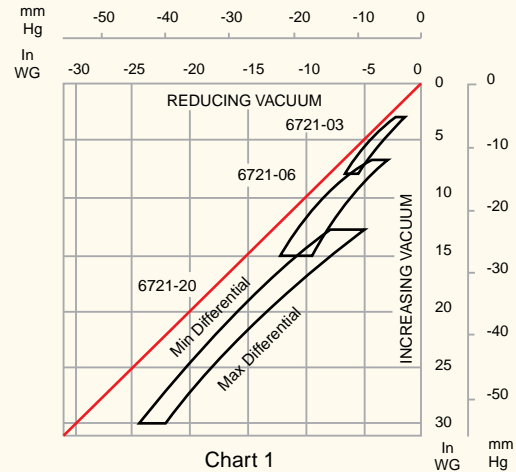


Chart 1

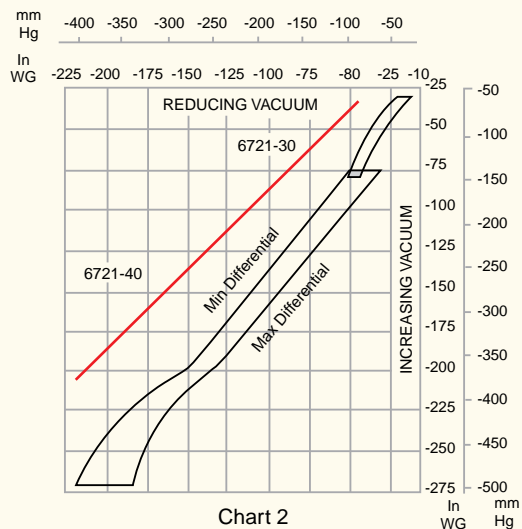
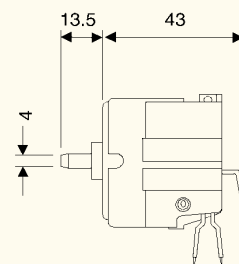
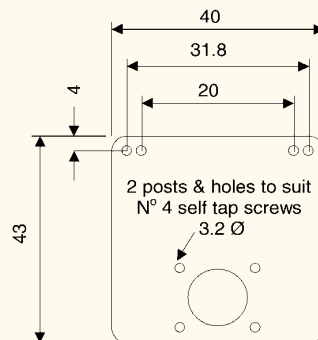


Chart 2

Note: Differentials are approximate

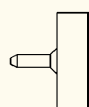
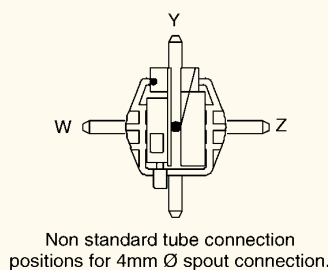
2mm thick mounting plate
 part N° 3351-109
 For 6721/2 switches

Note:
 Longer screws will penetrate
 diaphragm chamber, please order
 part N° 2112-643-047 Qty 2

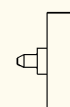


Back entry option available

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



Back entry
 6.4mm Ø spout



Back entry
 4mm Ø spout

Pressure Conversion Table



| P.S.I | in/H ₂ O | in/Hg | mm/H ₂ O | mm/Hg | kg/cm ² | bar | mbar | Pa | kPa |
|-------|---------------------|-------|---------------------|-------|--------------------|-------|-------|-------|-------|
| 1.0 | 27.71 | 2.036 | 703.1 | 51.75 | .0703 | .0689 | 68.95 | 6895 | 6.895 |
| 1.1 | 30.45 | 2.240 | 773.4 | 56.89 | .0773 | .0758 | 75.84 | 7584 | 7.584 |
| 1.2 | 33.22 | 2.443 | 843.7 | 62.06 | .0844 | .0827 | 82.74 | 8274 | 8.274 |
| 1.3 | 35.98 | 2.647 | 914.0 | 67.23 | .0914 | .0896 | 89.63 | 8963 | 8.963 |
| 1.4 | 38.75 | 2.850 | 984.3 | 72.40 | .0984 | .0965 | 96.52 | 9652 | 9.652 |
| 1.5 | 41.52 | 3.054 | 1055 | 77.57 | .1055 | .1034 | 103.4 | 10340 | 10.34 |
| 1.6 | 44.29 | 3.258 | 1125 | 82.74 | .1125 | 1103 | 110.3 | 11030 | 11.03 |
| 1.7 | 47.06 | 3.461 | 1195 | 87.92 | .1195 | .1172 | 117.2 | 11720 | 11.72 |
| 1.8 | 49.82 | 3.665 | 1266 | 93.09 | .1266 | 1241 | 124.1 | 12410 | 12.41 |
| 1.9 | 52.59 | 3.868 | 1336 | 98.26 | .1336 | 1310 | 131.0 | 13100 | 13.10 |
| 2.0 | 55.36 | 4.072 | 1406 | 103.4 | .1406 | .1379 | 137.9 | 13790 | 13.79 |
| 2.1 | 58.13 | 4.276 | 1476 | 108.6 | .1476 | .1448 | 144.8 | 14480 | 14.48 |
| 2.2 | 60.90 | 4.479 | 1547 | 113.8 | .1547 | .1517 | 151.7 | 15170 | 15.17 |
| 2.3 | 63.67 | 4.683 | 1617 | 118.9 | .1617 | .1586 | 158.6 | 15860 | 15.86 |
| 2.4 | 66.43 | 4.886 | 1687 | 124.1 | .1687 | .1655 | 165.5 | 16550 | 16.55 |
| 2.5 | 69.20 | 5.090 | 1758 | 129.3 | .1758 | .1724 | 172.4 | 17240 | 17.24 |
| 2.6 | 71.97 | 5.294 | 1828 | 134.5 | .1828 | .1793 | 179.3 | 17930 | 17.93 |
| 2.7 | 74.74 | 5.497 | 1898 | 139.6 | .1898 | .1862 | 186.2 | 18620 | 18.62 |
| 2.8 | 77.51 | 5.701 | 1969 | 144.8 | .1968 | .1930 | 193.0 | 19300 | 19.30 |
| 2.9 | 80.27 | 5.904 | 2039 | 150.0 | .2039 | .1999 | 199.9 | 19990 | 19.99 |
| 3.0 | 83.04 | 6.108 | 2109 | 155.1 | .2109 | .2068 | 206.8 | 20680 | 20.68 |
| 3.1 | 85.81 | 6.312 | 2180 | 160.3 | .2180 | .2137 | 213.7 | 21370 | 21.37 |
| 3.2 | 88.58 | 6.515 | 2250 | 165.5 | .2250 | .2206 | 220.6 | 22060 | 22.06 |
| 3.3 | 91.35 | 6.719 | 2320 | 170.7 | .2320 | .2275 | 227.5 | 22750 | 22.75 |
| 3.4 | 94.11 | 6.922 | 2390 | 175.8 | .2390 | .2344 | 234.4 | 23440 | 23.44 |
| 3.5 | 96.88 | 7.126 | 2461 | 181.0 | .2461 | .2413 | 241.3 | 24130 | 24.13 |
| 3.6 | 99.65 | 7.330 | 2531 | 186.2 | .2531 | .2482 | 248.2 | 24820 | 24.82 |
| 3.7 | 102.4 | 7.533 | 2601 | 191.3 | .2601 | .2551 | 255.1 | 25510 | 25.51 |
| 3.8 | 105.2 | 7.737 | 2672 | 196.5 | .2672 | .2620 | 262.0 | 26200 | 26.20 |
| 3.9 | 108.0 | 7.940 | 2742 | 201.7 | .2742 | .2689 | 268.9 | 26890 | 26.89 |
| 4.0 | 110.7 | 8.144 | 2812 | 206.9 | .2812 | .2758 | 275.8 | 27580 | 27.58 |
| 4.1 | 113.5 | 8.348 | 2883 | 212.0 | .2883 | .2827 | 282.7 | 28270 | 28.27 |
| 4.2 | 116.3 | 8.551 | 2953 | 217.2 | .2953 | .2896 | 289.6 | 28960 | 28.96 |
| 4.3 | 119.0 | 8.775 | 3023 | 222.4 | .3023 | .2965 | 296.5 | 29650 | 29.65 |
| 4.4 | 121.8 | 8.958 | 3094 | 227.5 | .3094 | .3034 | 303.4 | 30338 | 30.34 |
| 4.5 | 124.6 | 9.162 | 3164 | 232.7 | .3164 | .3103 | 310.3 | 31030 | 31.03 |
| 4.6 | 127.3 | 9.366 | 3234 | 237.9 | .3234 | .3172 | 317.2 | 31720 | 31.72 |
| 4.7 | 130.1 | 9.569 | 3304 | 243.1 | .3304 | .3240 | 324.0 | 32400 | 32.40 |
| 4.8 | 132.9 | 9.773 | 3375 | 248.2 | .3375 | .3310 | 331.0 | 33100 | 33.10 |
| 4.9 | 135.6 | 9.976 | 3445 | 253.4 | .3445 | .3378 | 337.8 | 33780 | 33.78 |
| 5.0 | 138.4 | 10.18 | 3515 | 258.6 | .3515 | .3447 | 344.7 | 34470 | 34.47 |
| 5.1 | 141.2 | 10.38 | 3586 | 263.7 | .3586 | .3516 | 351.6 | 35160 | 35.16 |
| 5.2 | 143.9 | 10.59 | 3656 | 268.9 | .3656 | .3585 | 358.5 | 35850 | 35.85 |
| 5.3 | 146.7 | 10.79 | 3726 | 274.1 | .3726 | .3654 | 365.4 | 36540 | 36.54 |
| 5.4 | 149.5 | 10.99 | 3797 | 279.3 | .3797 | .3723 | 372.3 | 37230 | 37.23 |
| 5.5 | 152.2 | 11.20 | 3867 | 284.4 | .3867 | .3792 | 379.2 | 37920 | 37.92 |

| P.S.I | in/H ₂ O | in/Hg | mm/H ₂ O | mm/Hg | kg/cm ² | bar | mbar | Pa | kPa |
|-------|---------------------|-------|---------------------|-------|--------------------|-------|-------|--------|-------|
| 5.6 | 155.0 | 11.40 | 3937 | 289.6 | .3937 | .3861 | 386.1 | 38610 | 38.61 |
| 5.7 | 157.8 | 11.60 | 4008 | 294.8 | .4007 | .3930 | 393.0 | 39300 | 39.30 |
| 5.8 | 160.5 | 11.81 | 4078 | 299.9 | .4078 | .3999 | 399.9 | 39990 | 39.99 |
| 5.9 | 163.3 | 12.01 | 4148 | 305.1 | .4148 | .4068 | 406.8 | 40680 | 40.68 |
| 6.0 | 166.1 | 12.22 | 4218 | 310.3 | .4218 | .4137 | 413.7 | 41370 | 41.37 |
| 6.1 | 168.8 | 12.42 | 4289 | 315.5 | .4289 | .4206 | 420.6 | 42060 | 42.06 |
| 6.2 | 171.6 | 12.62 | 4359 | 320.6 | .4359 | .4275 | 427.5 | 42750 | 42.75 |
| 6.3 | 174.4 | 12.83 | 4429 | 325.8 | .4429 | .4344 | 434.4 | 43440 | 43.44 |
| 6.4 | 177.2 | 13.03 | 4500 | 331.0 | .4500 | .4413 | 441.3 | 44130 | 44.13 |
| 6.5 | 179.9 | 13.23 | 4570 | 336.1 | .4570 | .4482 | 448.2 | 44820 | 44.82 |
| 6.6 | 182.7 | 13.44 | 4640 | 341.3 | .4640 | .4550 | 455.0 | 45500 | 45.50 |
| 6.7 | 185.5 | 13.64 | 4711 | 346.5 | .4710 | .4619 | 461.9 | 46190 | 46.19 |
| 6.8 | 188.2 | 13.84 | 4781 | 351.7 | .4781 | .4688 | 468.8 | 46880 | 46.88 |
| 6.9 | 191.0 | 14.05 | 4851 | 356.8 | .4851 | .4757 | 475.7 | 47570 | 47.57 |
| 7.0 | 193.8 | 14.25 | 4922 | 362.0 | .4921 | .4826 | 482.6 | 48260 | 48.26 |
| 7.1 | 196.5 | 14.46 | 4992 | 367.2 | .4992 | .4895 | 489.5 | 48950 | 48.95 |
| 7.2 | 199.3 | 14.66 | 5062 | 372.3 | .5062 | .4964 | 496.4 | 49640 | 49.64 |
| 7.3 | 202.1 | 14.86 | 5132 | 377.5 | .5132 | .5033 | 503.3 | 50330 | 50.33 |
| 7.4 | 204.8 | 15.07 | 5203 | 382.7 | .5203 | .5102 | 510.2 | 51020 | 51.02 |
| 7.5 | 207.6 | 15.27 | 5273 | 387.9 | .5273 | .5171 | 517.1 | 51710 | 51.71 |
| 7.6 | 210.4 | 15.47 | 5343 | 393.0 | .5343 | .5240 | 524.0 | 52400 | 52.40 |
| 7.8 | 215.9 | 15.88 | 5484 | 403.4 | .5484 | .5378 | 537.8 | 53780 | 53.78 |
| 8.0 | 221.4 | 16.29 | 5625 | 413.7 | .5625 | .5516 | 551.6 | 55160 | 55.16 |
| 8.2 | 227.0 | 16.70 | 5765 | 424.1 | .5765 | .5654 | 565.4 | 56540 | 56.54 |
| 8.4 | 232.5 | 17.10 | 5906 | 434.4 | .5906 | .5792 | 579.2 | 57920 | 57.92 |
| 8.6 | 238.0 | 17.51 | 6047 | 444.7 | .6046 | .5929 | 592.9 | 59290 | 59.29 |
| 8.8 | 243.6 | 17.92 | 6187 | 455.1 | .6187 | .6067 | 606.7 | 60670 | 60.67 |
| 9.0 | 249.1 | 18.32 | 6328 | 465.4 | .6328 | .6205 | 620.5 | 62050 | 62.05 |
| 9.2 | 254.7 | 18.73 | 6468 | 475.8 | .6468 | .6343 | 634.3 | 63430 | 63.43 |
| 9.4 | 260.2 | 19.14 | 6609 | 486.1 | .6609 | .6481 | 648.1 | 64810 | 64.81 |
| 9.6 | 265.7 | 19.54 | 6750 | 496.5 | .6749 | .6619 | 661.9 | 66190 | 66.19 |
| 9.8 | 271.3 | 19.95 | 6890 | 506.8 | .6890 | .6757 | 675.7 | 67570 | 67.57 |
| 10.0 | 276.8 | 20.36 | 7031 | 517.1 | .7031 | .6895 | 689.5 | 68950 | 68.95 |
| 11.0 | 304.5 | 22.40 | 7734 | 568.9 | .7734 | .7584 | 758.4 | 75840 | 75.84 |
| 12.0 | 332.2 | 24.43 | 8437 | 620.6 | .8437 | .8274 | 827.4 | 82740 | 82.74 |
| 13.0 | 359.8 | 26.47 | 9140 | 672.3 | .9140 | .8963 | 896.3 | 89630 | 89.63 |
| 14.0 | 387.5 | 28.50 | 9843 | 724.0 | .9843 | .9652 | 965.2 | 96520 | 96.52 |
| 14.7 | 406.9 | 29.93 | 10340 | 760.2 | 1.033 | 1.014 | 1014 | 101400 | 101.4 |
| 15.0 | 415.2 | 30.54 | 10550 | 775.7 | 1.055 | 1.034 | 1034 | 103400 | 103.4 |
| 16.0 | 442.9 | 32.58 | 11250 | 827.4 | 1.125 | 1.103 | 1103 | 110300 | 110.3 |
| 17.0 | 470.6 | 34.61 | 11950 | 879.1 | 1.195 | 1.172 | 1172 | 117200 | 117.2 |
| 18.0 | 498.2 | 36.65 | 12660 | 930.9 | 1.265 | 1.241 | 1241 | 124100 | 124.1 |
| 19.0 | 525.9 | 38.68 | 13360 | 982.6 | 1.336 | 1.310 | 1310 | 131000 | 131.0 |
| 20.0 | 553.6 | 40.72 | 14060 | 1034 | 1.406 | 1.379 | 1379 | 137900 | 137.9 |
| 25.0 | 692.0 | 50.90 | 17580 | 1293 | 1.758 | 1.724 | 1724 | 172400 | 172.4 |

Pressure Conversions

Lbf/in² = Pounds force per square inch (psi)
 1 psi = 27.6804 in/H₂O
 1 psi = 2.03602 in/Hg
 1 psi = 68.9476 mbar
 1 psi = 703.082 mm/H₂O
 1 psi = 0.0689 bar
 1 in/H₂O = 25.4 mm/H₂O
 1 in/H₂O = 1.86832 mm/Hg
 1 in/H₂O = 2.49089

Flow

dm³/s = Cubic decimetres per second
 ft³/Min = Cubic feet per minute
 l/Min = Litres per minute
 1dm³/s = 2.119 ft³/Min
 1dm³/s = 60 Litres/Min
 1Lt/Min = 0.0353 ft³/Min

Liquid


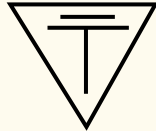




















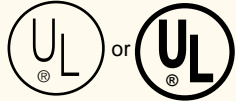


ml = Millilitre
 fl oz = Fluid Ounce
 1ml = 0.0352 fl/oz
 1 Litre = 0.21998 UK
 Gallon

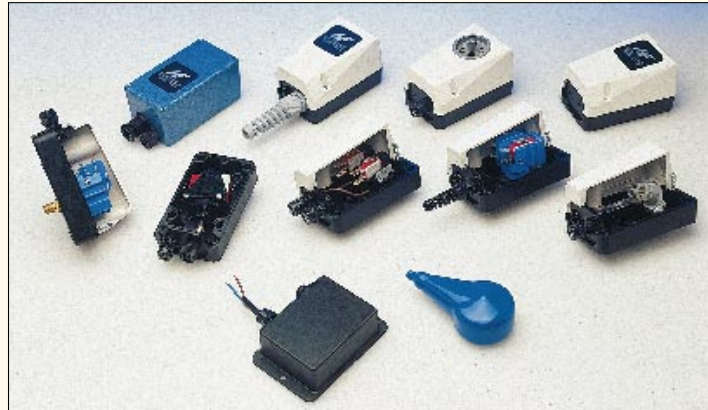
Force

N = Newton
 Lbf = Pounds force
 Kgf = Kilogram force
 1 N = 0.225Lbf
 1 N = 0.102Kgf

Weight

Kg = Kilogram
 Lb = Pound
 1Kg = 2.2045Lb

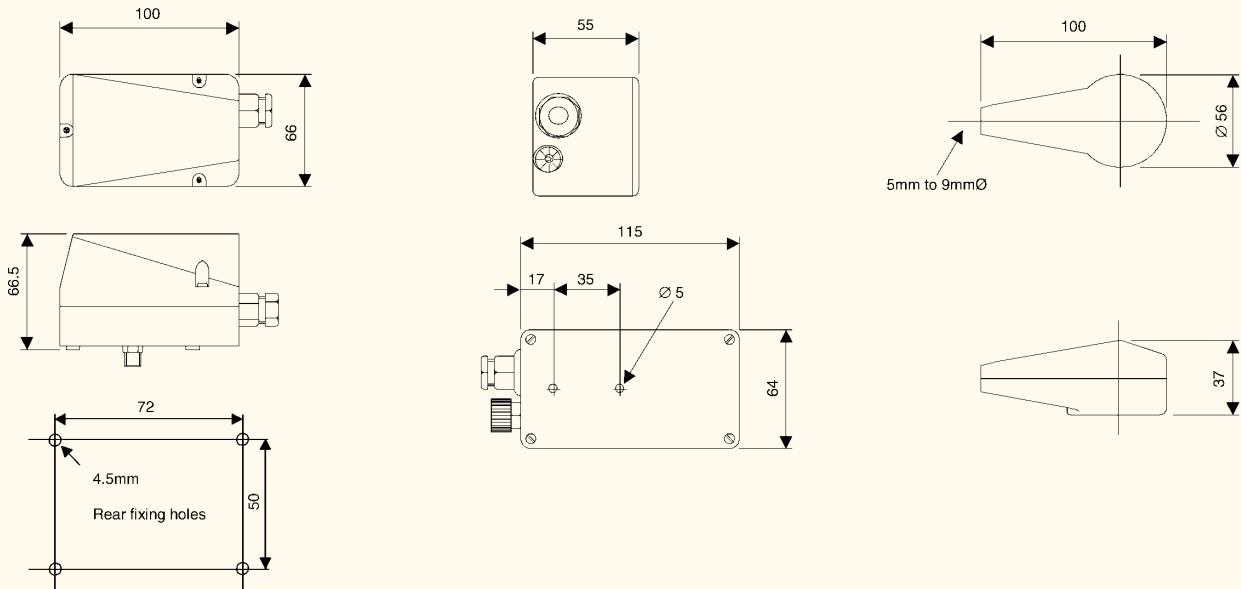
| <u>Country</u> | <u>Agency</u> | <u>Mark</u> | <u>Country</u> | <u>Agency</u> | <u>Mark</u> |
|----------------|---------------|---|--------------------------|--|---|
| Australia | SAA |  | Japan | MITI |  |
| Austria | OVE |  | Netherlands | KEMA |  |
| Belgium | CEBEC |  | New Zealand | SECV SECQ SECWA EANSW ETSA HECT SANZ |  |
| Canada | CSA |  | | | |
| Denmark | DEMKO |  | Norway | NEMKO |  |
| Europe | MANY |  | Republic of South Africa | SABS |  |
| Finland | FEI |  | Sweden | SEMKO |  |
| France | UTE |  | Switzerland | SEV |  |
| Germany | VDE |  | United Kingdom | ASTA |  |
| | |  | | BSI |  |
| India | ISI |  | | BEAB |  |
| Ireland | IIRS |  | United States | UL |  |
| Italy | IMQ |  | | |  |



Benefits

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

- ❖ 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: 6819-00 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.

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.

Part Number: 6819-01

Blue flexible PVC protective boot for air and pressure switch types 6721, 6731, 6741, 6861, 6863 and 6869.

Covers all electrical connections and grips round outside of switch body. Can be used with cable 5mm to 9mm diameter.

We recommend a cable restraint is used in connection with this part.

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: MEDICAL POOL & SPA CHEMICAL/PROCESS INDUSTRIAL OTHER _____

CLASSIFICATION: OEM DISTRIBUTOR / RESELLER END USER OTHER _____

REQUIREMENTS: _____ PRESSURE. _____ VACUUM. _____ DIFFERENTIAL PRESSURE.

IF PRESSURE OR VACUUM MEASURED GAUGE (AS IN CATALOGUE) OR ABSOLUTE? _____

_____ INCHES WG _____ PSI GAUGE OPERATING RANGE: _____ TO _____ ± _____

HERGA TO SET WE WILL SET ON RISING ON FALLING

MAX PRESSURE/VACUUM UNIT WILL BE SUBJECTED TO _____ SETTING PREFERENCE ± _____

MAX DIFFERENTIAL (DIFF. BETWEEN RISE & FALL) _____ MIN DIFFERENTIAL _____

MEDIA GAS _____ TEMPERATURE _____ AMBIENT _____ TO _____

LIQUID _____ TEMPERATURE _____ MEDIA _____ TO _____

ELECTRICAL: VOLTS _____ AC _____ / _____ DC MAX CURRENT: AMPS _____ HP _____

_____ RESISTIVE _____ INDUCTIVE LOAD DESCRIPTION _____

APPROVAL NEEDED: UL CSA OTHER _____

CONTACT CONFIGURATION: SINGLE POLE DOUBLE POLE GOLD CONTACT

MECHANICAL: MOUNTING PREFERENCE 1/8" BSPT BRASS 1/8" BSPT STAINLESS SIDE SPOUT CENTRE SPOUT

1/8" NPT BRASS 1/8" NPT STAINLESS PCB MOUNT OTHER _____

APPLICATION (WHAT WILL SWITCH CONTROL?) _____

QUANTITY REQUIRED FOR PROTOTYPE? _____ REQUIRED DATE _____

ANNUAL PRODUCTION QUANTITY? _____ START DATE _____

CURRENT SWITCH USED? _____ PRICE RANGE _____

ANY PROBLEMS WITH PRESENT UNIT? _____



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