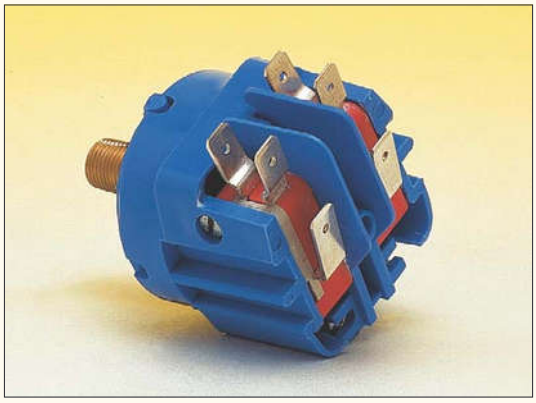
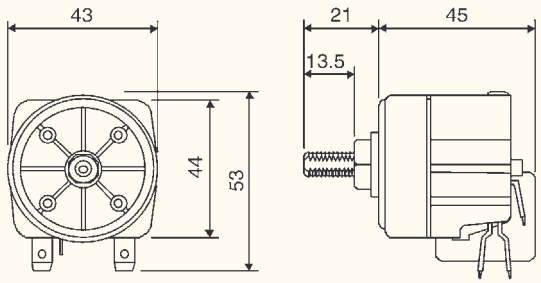
# 6741 / 6742 ~ Medium Pressure Switches






**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 | 8A | 1HP |
| | 250V | 21A | | 1HP |
| | 125V | 21A | | |
| 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 $10^6$ @ 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: UL, CSA, ENEC, CE

**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

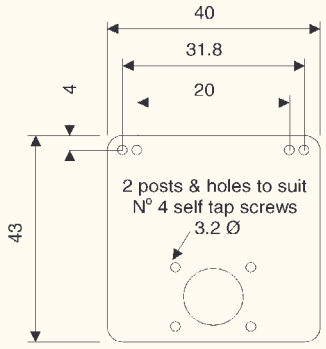

As a consequence of our policy of continual improvement, we reserve the right to change without notice any detail in this publication. Please see our Conditions of Sale.

# 6741 / 6742 ~ Medium Pressure Switches

## Suitability for use with different operating media

| Pressure Medium | Diaphragms | |
|---|---|---|
| **Chemical Compatibility** | 6742/20/30/40 50 & 60 | 6742/70/80 & 90 |
| 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 | ✓ | ✓ |

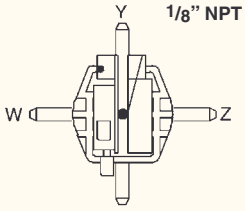
**Key:** ✓ = Recommended
☑ = Suitable with modification
✗ = Not suitable



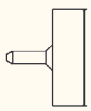

2mm thick mounting plate
Part N° 3351-109
for 6742-20 to 6742-60

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

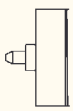
**Alternative Pressure Connections**
**1/8" NPT Pressure Connector**




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 and should be used as a guide only. For further clarification contact Herga**

Chart 1

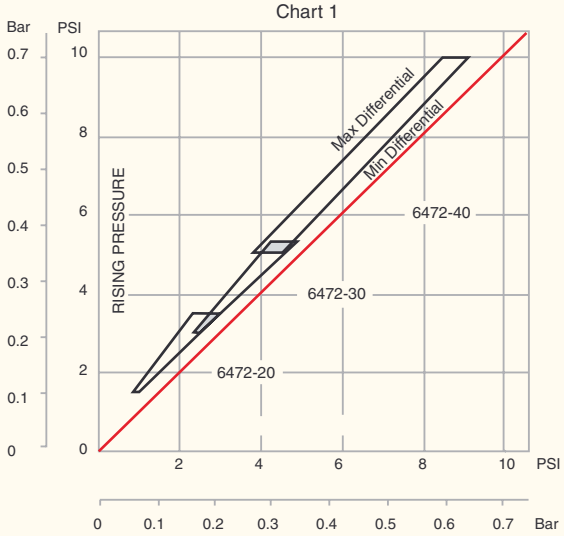



Chart 2

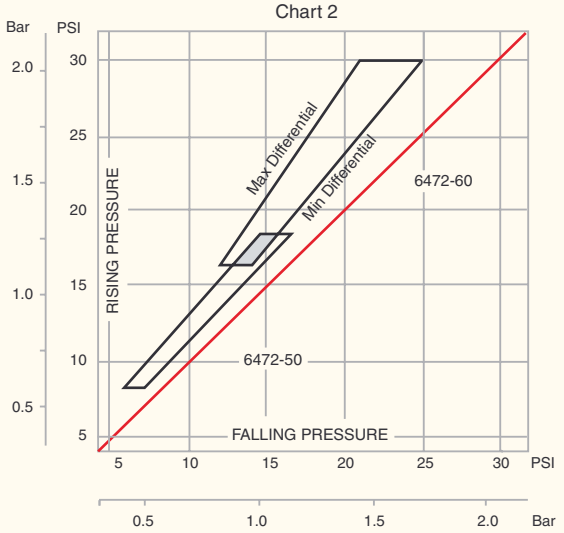
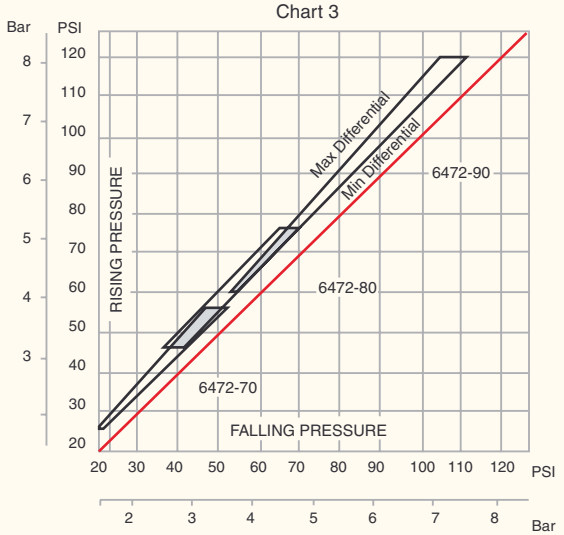



Chart 3

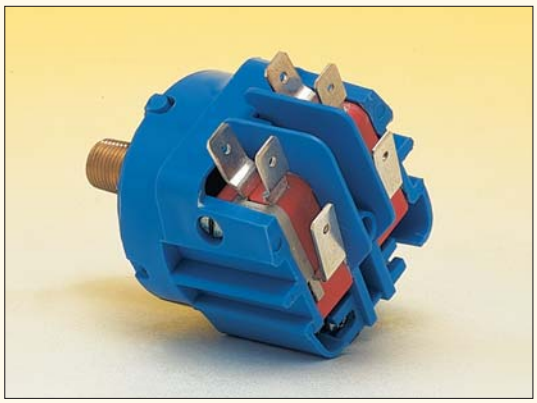


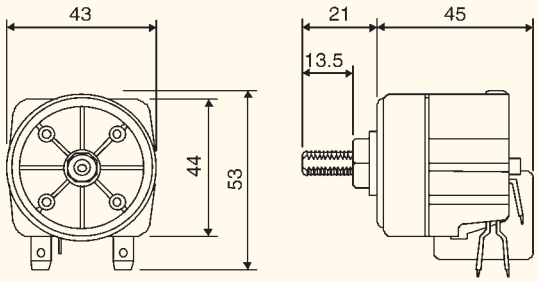


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# 6741 / 6742 ~ Druckschalter Mitteldruckbereich

herga






- Auf steigenden oder fallenden Druck eingestellt
- UL - anerkannte Ausführung erhältlich
- Ausgezeichnete Reproduzierbarkeit des Schaltpunktes

- Ein- oder zweipolige Ausführung
- Kundenspezifische Einstellung auf Anfrage
- Spezielle Schlauchanschlüsse erhältlich

**Silberkontakt Mikroschalter**

| | | | | |
|---|---|---|---|---|
| Durchschnittl. Lebensdauer | Mechanisch | 1,0 x $10^6$ | | |
| | Elektrisch | 2,0 x $10^5$ @ 10A 1,0 x $10^4$ @ 21A | | |
| | | Max. elektrische Spannung | | |
| | Spannung | ohmisch | induktiv | (Pf 0.75 Motor) |
| AC | 250V | 21A | 8A | 1HP |
| | 250V | 21A | | 1HP |
| | 125V | 21A | | |
| DC | 6V | 21A | 21A | |
| | 12V | 15A | 15A | |
| | 24V | 8A | 7A | |
| | 60V | 1A | 0.5A | |
| | 110V | 0.5A | 0.1A | |
| | 220V | 0.25A | 0.1A | |

| Modell | 6742-20/30/40/50/60 | 6742-70/80/90 |
|---|---|---|
| Elektr. Daten Schalter | 2-poliger Umschalter | 2-poliger Umschalter |
| Kontaktbelastbarkeit | 21 (8) A 250V AC | 21 (8) A 250V AC |
| Drucksanschluß | Messing 1/8" BSPT | Messing 1/8" BSPT |
| Einstellgenauigkeit | ± 10% | ± 10% |
| Druckbelastbarkeit | Mind. 1,75 Bar | 150 PSI 10 Bar |
| Temperaturbereich | -5˚C bis + 70˚C | -5˚C bis + 70˚C |
| Material Gehäuse | Nylon 12 | Nylon 12 |
| Material Membran | Neopren | glasfiberverstärktes Nitril mit Messing-anschluß |
| Feder | Stahlfeder | Stahlfeder |
| Gewicht | 50g | 85g |

**Goldkontakt Mikroschalter**

| | | | | |
|---|---|---|---|---|
| Durchschnittl. Lebensdauer | Mechanisch | 1,0 x $10^6$ | | |
| | Elektrisch | 2,0 x $10^6$ @ 10A 1,0 x $10^4$ @ 21A | | |
| | | Max. elektrische Belastung | | |
| | Sapnnung | ohmisch | induktiv | (Pf 0.75 Motor) |
| AC | 250V | 0,1A | 0,05 | N/A |
| UL/CSA | 125V | 0,1A | ----- | ----- |

| Modell | Druckbereich | | Hysterese (fest) |
|---|---|---|---|
| | P.S.I | Bar | |
| 6742-20 | 1,5 - 3,5 | 0,10 - 0,24 | Tabelle 1 |
| 6742-30 | 3,0 - 5,5 | 0,20 - 0,37 | Tabelle 1 |
| 6742-40 | 5 - 10 | 0,34 - 0,68 | Tabelle 1 |
| 6742-50 | 8 - 18 | 0,54 - 1,22 | Tabelle 2 |
| 6742-60 | 16 - 30 | 1,08 - 2,04 | Tabelle 2 |
| 6742-70 | 25 - 55 | 1,70 - 3,79 | Tabelle 3 |
| 6742-80 | 45 - 75 | 3,1 - 5,17 | Tabelle 3 |
| 6742-90 | 60 - 120 | 4,14 - 8,27 | Tabelle 3 |

Anwendbare Standards: EN 60730, EN 61058 und UL 508

Verfügbare Zulassung: CE, CSA, ENEC, UL

**Anmerkung:**
Herga übernimmt keinerlei Gewährleistung, wenn die Schalter außerhalb der genannten Werte eingesetzt werden.

**Sonderanfertigungen bei Abnahme von großen Mengen möglich:**
- Membran aus Silikon, Nitril oder EPDM
- Schalter mit kleinerer oder größerer Hysterese
- Federn aus Edelstahl
- NPT Druckanschlüsse erhältlich

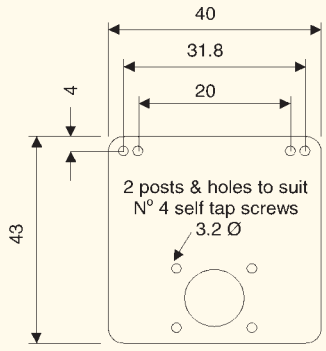

Aufgrund ständiger Produktverbesserungen behalten wir uns technische Änderungen vor. Bitte beachten Sie unsere Verkaufsbedingungen.

# 6741 / 6742 ~ Druckschalter Mitteldruckbereich

## Eignung für verschiedene Betriebsmedien

| Druckmedium | Membrane | |
|---|---|---|
| **Chemische Verträglichkeit** | 6742/20/30/40 50 & 60 | 6742/70/80 & 90 |
| Aceton | ☑ | ☑ |
| Ammoniak (flüssig) | ☑ | ☑ |
| Amylalkohol bis 20 C | ☑ | ☑ |
| Kraftwagen-Bremsflüssigkeit | ☑ | ☑ |
| Bier | ☑ | ☑ |
| Benzylalkohol | ✕ | ☑ |
| Butan | ✓ | ✓ |
| Kohlendioxid (trocken) | ✓ | ✓ |
| Zitronensäure | ✓ | ✓ |
| Kupfersulfat (Lösung) | ☑ | ☑ |
| Preßluft | ✓ | ✓ |
| Schneidöl | ☑ | ✓ |
| Dieselöl | ☑ | ✓ |
| Reinigungsmittellösung | ☑ | ✓ |
| Heizöl | ☑ | ✓ |
| Glycol | ✓ | ✓ |
| Hydrauliköl | ☑ | ✓ |
| Wasserstoff | ✓ | ✓ |
| Schmieröl | ☑ | ✓ |
| Milch | ☑ | ☑ |
| Mineralöl | ☑ | ✓ |
| Erdgas | ✓ | ✓ |
| Salpetersäure ( verdünnt) | ✕ | ☑ |
| Sauerstoff bis 70˚C | ✓ | ✓ |
| Benzin | ☑ | ✓ |
| Plattierlösung (Chrom) | ☑ | ☑ |
| Salzwasser | ☑ | ☑ |
| Abwasser | ☑ | ✓ |
| Schwefeldioxid | ✕ | ☑ |
| Terpentin | ☑ | ✓ |
| Essig | ☑ | ☑ |
| Wasser | ✓ | ✓ |

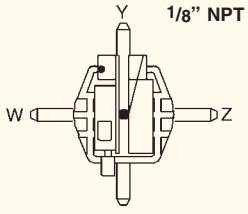
**Erl :** ✓ = Empfohlen
☑ = Bei Abänderung empfohlen
✕ = Nicht geeignet



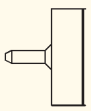

2mm thick mounting plate
Part N° 3351-109
for 6742-20 to 6742-60

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

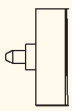
**Alternative Druck-Anschlüsse**
**1/8" NPT Anschlüsse**




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

Tabelle 1

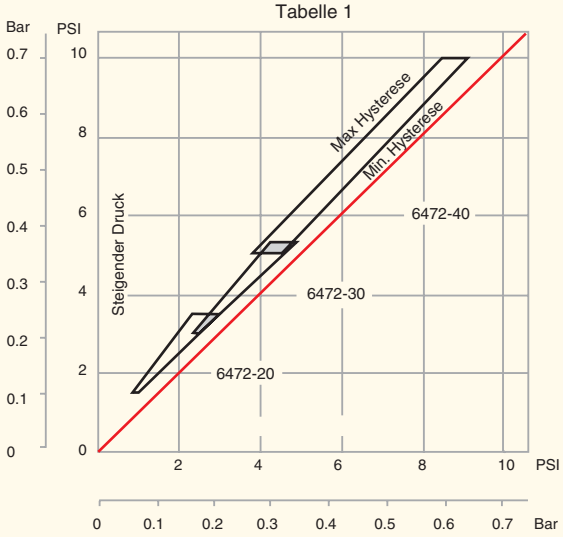



Tabelle 2

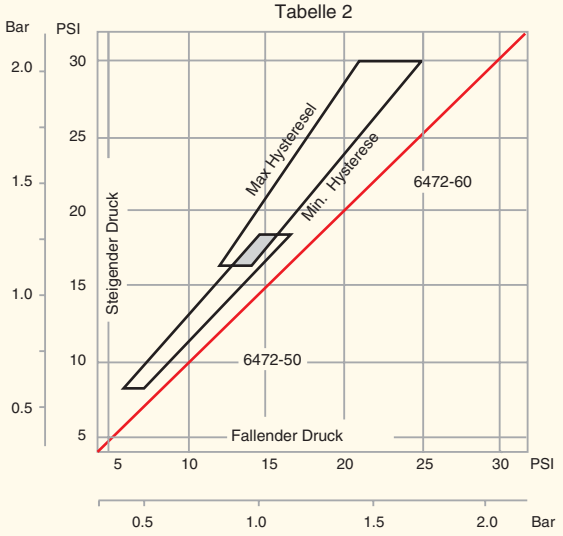
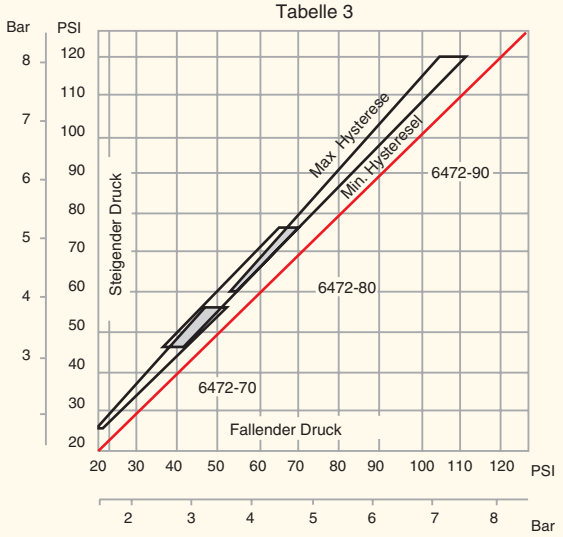



Tabelle 3






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