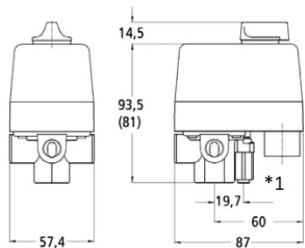
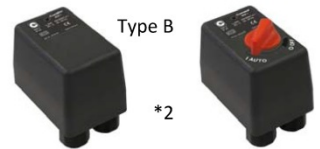
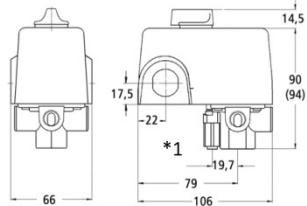
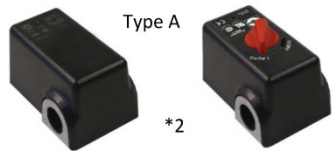




BETRIEBSANLEITUNG MDR-11 UL

Der Condor-Druckschalter ist zum Zeitpunkt seiner Entwicklung und Fertigung nach geltenden, anerkannten Regeln der Technik gebaut und gilt als betriebssicher. Es können jedoch vom Druckschalter Gefahren ausgehen, wenn dieser von nicht fachgerecht ausgebildetem Personal, unsachgemäß oder nicht bestimmungsgemäß verwendet wird. Es sind die **Sicherheitsinformationen** und die örtlichen gesetzlichen Vorschriften zwingend einzuhalten. Die Druckschalter dienen der Überwachung und Steuerung von Prozessen, dem Schalten von Pumpen und Kompressoren in Abhängigkeit des anstehenden Druckes.



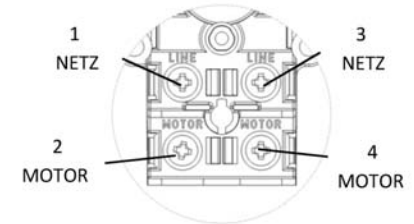
| Technische Daten (DIN EN 60947-4-1) | |
|---|-----------------------|
| Bemessungsbetriebsstrom I _e (U _e = 250 V, AC 3) | 20 A |
| Bemessungsfrequenz | 50 Hz / 60 Hz |
| Bemessungsisolationsspannung U _i | 500 V |
| Bemessungsstoßspannungsfestigkeit U _{imp} | 6 kV |
| Schutzart | IP 44 / IP 41 |
| Verschmutzungsgrad | 3 |
| Schutzklasse | 1 |
| Mechanische Lebensdauer Schaltspiele | > 5 x 10 ⁵ |
| Max. Schalthäufigkeit mechanisch Schaltspiele / h | 600 |
| Schaltstücklebensdauer (AC 3) Schaltspiele | > 1 x 10 ⁵ |
| Bemessungsbetriebsart (Klasse 120) Schaltspiele / h | 120 |
| Zulässige Medientemperatur Luft | -5°C - +80°C |
| Kontaktwerkstoff | Silberleg. |
| Koordinationsstyp | 2 |
| bedingter Bemessungskurzschlussstrom (I _q) | 3 kA |
| Sicherung - manuell | 35 A |
| Sicherung - pneumatisch | 50 A |
| SIBA NH00 gL/gGtype 2047713 | |

| Ratings (UL 508 / CSA 22.2 / No. 14) | Type A | | Type B | |
|---|--------|-----|--------|-----|
| | FLA | LRA | FLA | LRA |
| VAC (50/60 Hz) | | | | |
| 120 | 26 | 156 | 15 | 90 |
| 240 | 26 | 156 | 15 | 90 |
| 2 HP (24 FLA), 120 VAC, 1 Phase (2 pole), NC, Code A600 | | | | |
| 3 HP (17 FLA), 240 VAC, 1 Phase (2 pole), NC, Code A600 | | | | |
| 1/2 HP (2.7 FLA), 240 VDC, NC, Code N300 | | | | |
| PILOT DUTY: A600 and N300 | | | | |
| Factory Wiring Only, Wire range: 18-10 AWG, solid or stranded conductor, Copper wire only rated 60/75°C, One wire per terminal only, 18 in-lb tightening torque, herm. refrig. comp. Suitable For Use On A Circuit Capable Of Delivering Not More Than 5000 rms Symmetrical Amperes, 240 Volts Maximum and when protected by Class RK5 fuses rated 30 A or a circuit breaker Having An Interrupting Rating Not Less Than 30 rms Symmetrical Amperes, 240 Volts Maximum. | | | | |

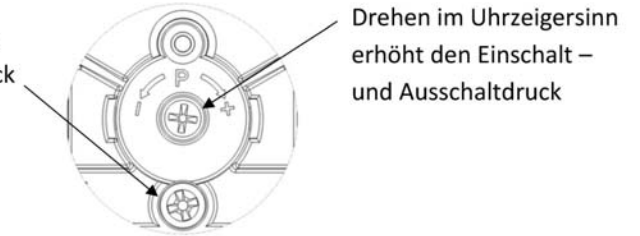
*1: Sollte nach dem Ausschalten die Luft aus dem Tank am Entlastungsventil entweichen, so ist das Rückschlagventil am Kompressor zu überprüfen
 *2: Die Druckwerte auf dem Typenschild sind die von Condor voreingestellten Werte. Diese können verstellt werden. Siehe Druckdiagramme



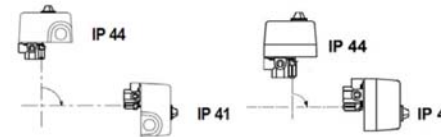
Anschlussquerschnitt:
 feindrätig 1x / 2x 2,5/2,5 mm²
 eindrätig 1x / 2x 2,5/2,5 mm²



Drehen im Uhrzeigersinn erhöht den Ausschalt- und Einschalt-Druck ohne Einfluss auf den Einschalt-Druck

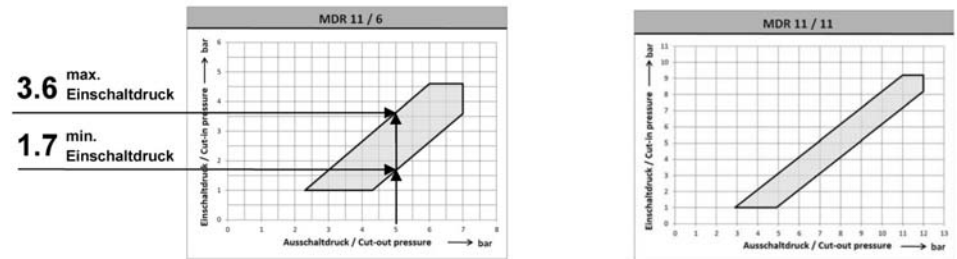


Ratgebervideo: Druckwerte einstellen – You Tube
https://www.youtube.com/channel/UC10vgkmZIH3gxVlxZ5B5WDQ/videos?shelf_id=0&view=0&sort=dd



| Folgende Flanschmaterialien sind verfügbar: | |
|---|------------------|
| Aluminium-Druckguss | verzinkter Stahl |
| Membrane: Hytrel | Membrane: Hytrel |
| !!!Achten Sie auf die elektrochemische Korrosion in Verbindung mit anderen Metallen!!! | |

Druckdiagramme MDR 11



Beispiel: Ausschalt-Druck p = 5 bar, Einschalt-Druck p_e zwischen 1,7 und 3,6 bar einstellbar, alle Punkte im grauen Feld sind einstellbar. Weitere Druckdiagramme auf Anfrage möglich.



Condor Pressure Control GmbH

Warendorfer Straße 47 – 51
 D-59320 Ennigerloh

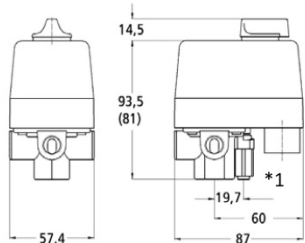
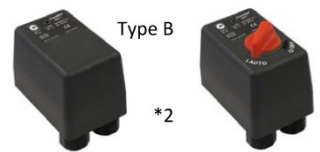
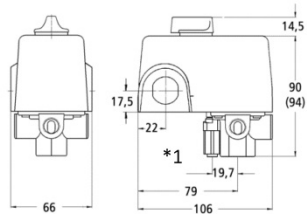
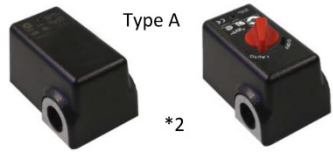
Telefon: +49 (0) 2587 / 89-0
 Telefax: +49 (0) 2587 / 89-140

info@condor-cpc.com
 www.condor-cpc.com



OPERATING INSTRUCTIONS MDR-11 UL

Condor pressure switches were built according to the relative and approved regulations of the time period when they were developed and produced and are considered to be safe during operation. However, this device can present risks if it is used by personnel without specialist training, or is used inappropriately or in an unapproved manner. The **safety data sheet** and the local legal regulations are to be strictly observed. The pressure switches serve the surveillance and control of processes, operations of pumps and compressors in dependence on the prevailing pressure.

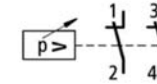


*1: If air out of the tank is released through the release valve after shutting off the switch, the non-return valve on the compressor is to be checked.

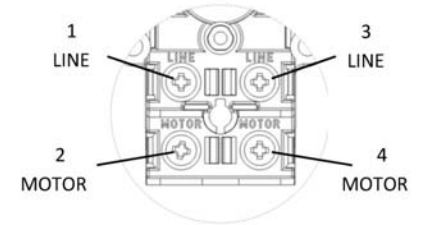
*2: The pressure values shown on the label are the factory settings set by Condor. These can be adjusted. See the pressure setting diagram.

| Technical Data (DIN EN 60947-4-1) | |
|---|-----------------------|
| Rated operational current Ie (Ue = 250 V, AC 3) | 20 A |
| Rated frequency | 50 Hz / 60 Hz |
| Rated insulation voltage Ui | 500 V |
| Rated impulse voltage Uimp | 6 kV |
| Degree of protection of individual enclosure | IP 44 / IP 41 |
| Pollution degree | 3 |
| Protection class | I |
| Mechanical durability operating cycles | > 5 x 10 ⁵ |
| Maximum mechanical switching frequency operating cycles / h | 600 |
| Electrical durability (AC 3) operating cycles | > 1 x 10 ⁵ |
| Rated operating mode (Class 120) operating cycles / h | 120 |
| Permissible medium temperature (air) | -5°C - +80°C |
| Contact material | Silver alloy |
| Co-ordination type | 2 |
| Prospective short-circuit current (Iq) | 3 kA |
| Fuse - manual | 35 A |
| Fuse - pneumatic | 50 A |
| SIBA NH00 gL/gGtype 2047713 | |

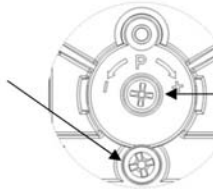
| Ratings (UL 508 / CSA 22.2 / No. 14) | | | | |
|---|--------|-----|--------|-----|
| | Type A | | Type B | |
| | FLA | LRA | FLA | LRA |
| VAC (50/60 Hz) | | | | |
| 120 | 26 | 156 | 15 | 90 |
| 240 | 26 | 156 | 15 | 90 |
| 2 HP (24 FLA), 120 VAC, 1 Phase (2 pole), NC, Code A600 | | | | |
| 3 HP (17 FLA), 240 VAC, 1 Phase (2 pole), NC, Code A600 | | | | |
| 1/2 HP (2.7 FLA), 240 VDC, NC, Code N300 | | | | |
| PILOT DUTY: A600 and N300 | | | | |
| Factory Wiring Only, Wire range: 18-10 AWG, solid or stranded conductor, Copper wire only rated 60/75°C, One wire per terminal only, 18 in-lb tightening torque, herm. refrig. comp. Suitable For Use On A Circuit Capable Of Delivering Not More Than 5000 rms Symmetrical Amperes, 240 Volts Maximum and when protected by Class RK5 fuses rated 30 A or a circuit breaker Having An Interrupting Rating Not Less Than 30 rms Symmetrical Amperes, 240 Volts Maximum. | | | | |



Conductor cross-section:
fine stranded cable 1x / 2x 2,5/2,5 mm²
rigid cable 1x / 2x 2,5/2,5 mm²



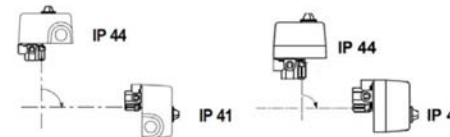
Turn clockwise to increase cut-out pressure without affecting cut-in



Turn clockwise to increase both cut-out and cut-in pressure

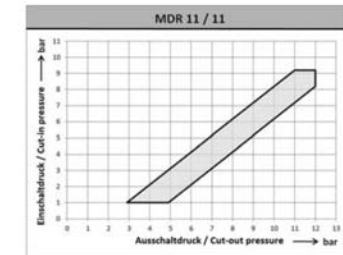
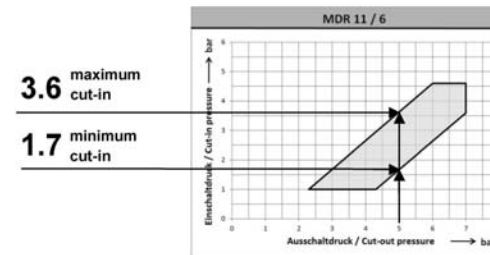


How-to videos: Adjust pressure values – You Tube
https://www.youtube.com/channel/UC10vgkmZIH3gxVlxZ5B5WDQ/videos?shelf_id=0&view=0&sort=dd



| | |
|---|-------------------|
| The following material are available for flanges: | |
| Die-cast aluminium | Galvanised steel |
| Diaphragm: Hytrel | Diaphragm: Hytrel |
| !!! Watch out for any electrochemical corrosion when connected with other metals !!! | |

Pressure diagrams MDR 11



Example: Cut-out pressure p = 5 bar, cut-in pressure p_e between 1,7 and 3,6 bar possible, all values can be adjusted in the grey field. Other pressure diagrams available on request.



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