



PS3 Pressure Switch Technical Data

The ALCO PS3 is a Pressure Switch with fixed switch-point settings.

Features

- Maximum Operating Pressure up to 43 bar
- Test Pressure up to 48 bar
- Standard factory settings from stock in small volumes
- High and low pressure switches
- High temperature version with snubber for direct compressor mounting (Range 6)
- Direct mounting reduces the number of joints and thus avoiding potential leakage
- Precise setting and repeatability
- IP 65 protection if used with the new PS3-Nxx and PS3-Lxx cables with plug (acc. EN 175301-803), no additional gasket required (molded into plug)
- Customer specific versions in multipacks, minimum order quantity 100 Stück

Options

- For direct mounting on a pressure connection (free standing) or with a capillary tube
- Direct compressor head mounting with high temperature bellows and snubber:
 - reduces the number of joints
 - avoids potential leakage
 - saves high cost of flexible hose
- TÜV approved versions for high and low pressure
- Micro-switch for narrow pressure differentials
- Gold plated contacts for low voltage/current applications
- Cables with plug PS3-Nxx/PS3-Lxx not included; to be ordered separately (see page 8 for details)





PS3

Standards

CE per Low Voltage Directive

CE per PED Directive 97/23/EC, TÜV appr. versions only

Manufactured and tested to  standards on our own responsibility

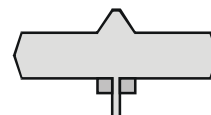
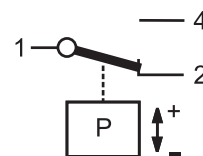
 Underwriter Laboratories

Introduction

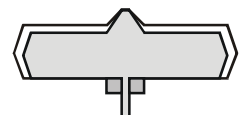
PS3 are equipped with a SPDT snap action contact, switching from 1-2 to 1-4 on rising pressure and from 1-4 to 1-2 on falling pressure (see diagram). The PS3 is factory preset according to customers specification and is not adjustable. Several models are available:

- Low pressure switch, with automatic or manual reset
- High pressure switch, with automatic or manual reset
- TÜV approved safety high pressure limiter with automatic reset
- TÜV approved safety high pressure cut-out, with internal or external manual reset

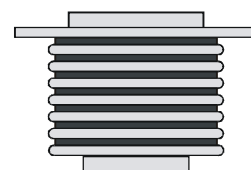
TÜV approval for pressure switches can be reached either by using a double diaphragm (Pressure range 1-5) which acts in a fail-safe mode or by a single pressure element (Bellows, Pressure range 6) which is able to resist to > 2 Mio. cycles between 50% and 100% of the maximum operating pressure (see 4.6.1 of EN 12263).



single diaphragm



double diaphragm



bellows (pressure range 6)



PS3 Pressure Switch

Selection Sheet

For selection and sample request please fill-in complete

Note: not each combination is possible

Type code

PS3 -

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- cut-in / cut-out

Product Name

PS3: Compact fixed setting pressostat
PSC: Customer special version of PS3

Function

A: Pressure control, automatic, hp and lp
R: Pressure control, external manual reset, hp and lp
W: Pressure limiter, automatic TÜV Range 1-5 (high temperature Range 6, O, F, X only)
B: Pressure cut-out, external manual reset TÜV Range 1-5 (high temperature, Range 6, O, F, X only)
S: Safety pressure cut-out, internal manual reset TÜV Range 1-5 (high temperature, Range 6, O, F, X only)

Pressure Connectors

A: 7/16"-20 UNF male (Range 1-5), with console
G: G1/4" female brass
K: 1 m cap. tube w. flare nut 7/16"-20UNF (Range 1-5), with console
L: 1/4"-ODM solder with 1 m cap. tube (Range 1-5), with console
M: 1/8"-27 NPT with snubber (Range 6, O, F, X only)
R: G1/4" male brass
S: 7/16"-20 UNF female, Schrader depressor (Range 6 with snubber)
U: 6 mm ODF brazing, with console (Range 6 with snubber)
X: 1/4" ODF brazing, with console (Range 6 with snubber)

Pressure Range / Contacts

Standard Contacts

1: lp max 6 bar
3: lp max 16 bar
4: hp max 30 bar
5: hp max 30 bar
6: hp max 43 bar

Microswitch

J: lp max 6 bar
L: lp max 16 bar
M: hp max 30 bar
N: hp max 30 bar
O: hp max 43 bar

Gold Plated Contacts

A: lp max 6 bar
C: lp max 16 bar
D: hp max 30 bar
E: hp max 30 bar
F: hp max 43 bar

Microswitch(Gold Plated Contacts)

S: lp max 6 bar
U: lp max 16 bar
V: hp max 30 bar
W: hp max 30 bar
X: hp max 43 bar