ELETTROTEC:

the one and only answer to any control requirements

Established in 1977, ELETTROTEC S.r.I. for over than twenty-five years has been developing and manufacturing Control Devices for Fluids trying to find always innovative solutions and components able to outfit at best machines and production systems and give a single answer to any requirements in pressure, vacuum, temperature, level and flow monitoring.

Since our beginning in the field of measurement and control, we have designed reliable, cost effective, high quality standard products that have increasingly achieved widespread success in many different sectors of application, e.g. automation, food & beverage, packaging systems, chemical and pharmaceutical industry, hydraulics, pneumatics, agricultural and earthwork machinery, hospital and medical equipment, lubrication plants, environment protection, lifting systems, automotive and fire prevention.

Huge investments in R&D, the amplification of the reference market areas and the innate longing to improve have recently led ELETTROTEC to step up into the developing of innovative solutions, in order to come up with the new market demand of an always most accurate monitoring of processes and systems. Besides a wide range of standard products –

pressure and vacuum switches, liquid level switches, flow indicators and switches, temperature switches, level sensors, pressure transmitters, digital indicators – constantly updated and improved, ELETTROTEC can also offer specific custom solutions, especially designed to meet particular actual requirements in applications where we already have a twenty-five year experience. Moreover, to give a comprehensive idea of the ELETTROTEC manufacturing range, it has to be also mentioned the excellent series of accessories, e.g. protection caps and connectors, among which stands out in particular the new DIN plug with transparent housing and red/green LED designed to suit and fit even competitors' products.

Since established, ELETTROTEC has been supplying both important OEMs and end-users in Europe, Far East, United States and Australia, also fortified by the prestigious UNI EN ISO 9001:2000 certification and by many other specific product approvals (RINA, Lloyd's Register, Germanischer Lloyd, ATEX, GOST, CE) that prove our company to be a qualified international manufacturer able to suit the most various and demanding technological requirements.

ELETTROTEC: more than 25-years of great and constant care to grow, improve and be always at the top of success.











R & D

Research & Development of new products have always had a very important part in the Elettrotec company strategy. Invest on R&D means to Elettrotec constantly improve, evolve and grant continuous competitiveness to the production.

Any steps of designing, testing and inspecting a product take totally place inside the company, in accordance with the severe procedures established by the UNI EN ISO 9001:2000 quality system certification and using specific Elettrotec-owned equipment.

Every product prototype is carefully inspected according to strict criteria of electromagnetic and environmental compatibility and to specific tests relative to various product certification approvals.

A climatic chamber, load electric benches, process simulators, equipment to measure physical magnitude on computer data acquisition system based on an Elettrotec-owned software and specific checkout stands for calibration and tests are used to assure the best quality standard possible.

The final manufacturing of any Elettrotec product is the result both of experience and careful inspections and therefore a real guarantee of Elettrotec reliable tradition.







TRADE REFERENCES

New Holland (Earthwork machinery)

MCF

(Mitshubishi Caterpiller Fofklifts) (Earthwork machinery)

Manitou (Earthwork machinery)

Dulevo International (Cleaning Machinery)

Schmidt compact system (Cleaning Machinery)

Marini Fayat Group (Machinery for road-building)

Fiat Hitachi (Excavators)

FAI Komatsu Industries (Excavators)

OTIS (Elevators)
CEAM (Elevators)

UCC Group (Filtration)

Donaldson (Filtration)

Bosch (Hydraulics)
HERION (Pneumatics)

KONI (Hydraulic Suspensions)

ABAC (Air Compressors)

FINI

CECCATO

Sab-Wabco Group

DB Deutsch Bahn

Parker Hannifin Group

AVS Group

Metal Work Group

SMC

Festo

Camozzi

Angst + Pfister

ASA Hydraulik

Oiltech Group
Costante Sesino

Berger Vogel

(Air Compressors)

(Air Compressors)

(Railroad Applications)

(Railroad Applications)

(Hydraulics & Pneumatics)

(Pneumatics)

(Pneumatics)

(Pneumatics)

(Pneumatics)

(Pneumatics)

(Automation)

(Heat Exchangers)

(Heat Exchangers)

(Heat Exchangers)

(Lubrication Systems)







PRESSURE SWITCHES

PME PMN PMM MS/PS

PSM / PSP PSM...B/PSP...CE

PSM/PSP...AM PMC/PPC/PPCF/PMC..–PPC...P

PML / PPL PSK

CUSTOMIZED EXECUTIONS

VACUUM SWITCHES

VCE VCN2 VCM1 VS VSM VMC

SWITCHES FOR PNEUMATIC

APPLICATIONSMSA/VSA
PSA

BIMETALLIC TEMPERATURE SWITCHES WITH FIXED SET-POINT

TB-TBM TBP - TBS TBF

NTB - NTBM NTBC EBT

EBC CUSTOMIZED EXECUTIONS

FLOAT LEVEL SWITCHES

LEM5 – LEM6

LEM7

LM1/2 A - FA - TA LMM1 A - FA - TA LM1/2 FPA - TPA LMM1 FPA - TPA

LM1/2 CA - CFA - CTA - CSA LMM1 CA - CFA - CTA - CSA

LM1/2 CFPA – CTPA LMM1 CFPA – CTPA LMA1/2 FA - FIA

LM1/2 FIA – TIA LMM1 FIA – TIA LM1/2 PTIA

LMMA1 FA - FIA

LMM1 PTIA LM1/ 2 GSA – GA – GTA LMM1 GSA – GA – GTA

LM1/ 2 GSIA – GIA – GTIA LMM1 GSIA – GIA – GTIA LM3/4 GSA – GA – GTA

LM3/4 GSIA – GIA – GTIA

LM1/2 GPA – GSPA – GTPA LMM1 GPA – GSPA - GTPA LM3/4 GSPA – GSP – GTPA

FLOAT LEVEL SWITCHES EXPLOSION-PROOF EXECUTION -

EXPLOSION-PROOF EXECUTION
EX HAZARDOUS AREAS

LM1 / 2 CTA — GTA EP

LMM1 CTA — GTA EP

LMM1 / 2 TIA — GTIA EP

LMM1 TIA — GTIA EP

LMM3 / 4 GTA — GTIA EP

ASSEMBLY KIT

LM1/2 P – PF – B – BF - TB I M1/2 PI – BFI

CONTINUOUS LEVEL SENSORS

SLM1/2 FA – TA CVS1 SL1/2 M3 FA – TA SL1/2 FA – TA CVS1/CVS2 SL1/2 F3A – T3A SL1/2 FIA – TIA . . . CVS1/CVS2 SL1/2 F3IA – T3IA

CONTINUOUS LEVEL SENSORS EXPLOSION-PROOF EXECUTION EX HAZARDOUS AREAS SL 1/2 TA CVS3 FP

SL1/2 TA CVS3 EP SL1/2 TIA CVS3 EP

CONTINUOUS LEVEL MONITORING SYSTEM EASYL EVEL

ELECTRO-OPTIC LIQUID LEVEL Sensors SEL

FLOW INDICATORS AND SWITCHES

IF...V IF...VE – IF...V2E IF...E – IF...DE IFE – IF2E

PRESSURE TRANSMITTERS AND ELECTRONIC PRESSURE SWITCHES

E619 EPS01 EPT1000

DIGITAL INDICATORS

E3000

IVD5- IVD6-IVD8-IVD9-IVD10 IVD12

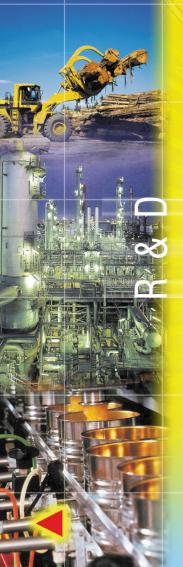
IVD12

ETR121/ETR141











Most popular applications PRESSURE SWITCHES

- INDUSTRIAL AUTOMATION
- PNEUMATICS
- HYDRAULICS
- LUBRICATION SYSTEMS
- AGRICULTURAL MACHINES
- BRAKING SYSTEMS (hydraulic and pneumatic)
- COFFEE MACHINES
- MEDICAL EQUIPMENT

- GAS DISTRIBUTION SYSTEMS (hospital application)
- DRINK DISPENSERS (wine beer)
- FILTERING
- EARTHWORK MACHINERY
- WIND ENERGY SYSTEMS/WIND TURBINES
- MACHINE TOOLS
- BUILDING MACHINERY and EQUIPMENT



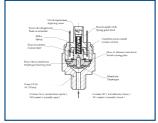


Pressure Switches

PME







- Adjustment ranges 0,2 to 50 bar
- 6,3x0,8 push-on terminals
- Body in brass, tropicalized steel
- Diaphragm in NBR, Viton, Silicone

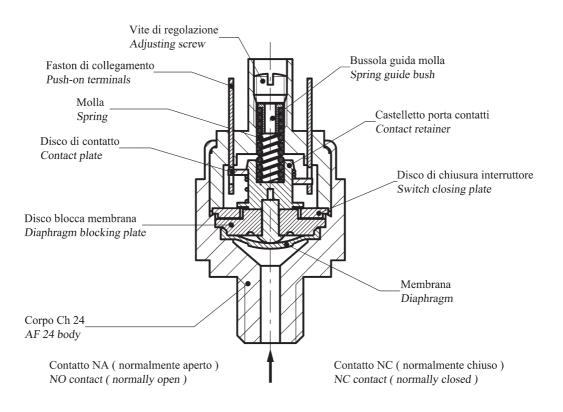
- 1/8" BSPT 1/4" BSPT thread connections
- Temperature range -5°C to +80°C
- NO/NC contacts rated at 0,5(0,2)A/48 Vac-dc
- IP54 protection with CAP1 or CAP10







PME



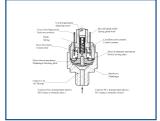


Pressure Switches

PMN







- Adjustment ranges 0.1 to 300 bar
- 6.3x0.8 push-on terminals
- Body in brass, tropicalized steel 303 or 316 stainless steel
- Diaphragm or gasket in NBR Viton, EPDM, HNBR, Neoprene, Silicone

- 1/8" BSPT 1/4" BSPT M10x1 (taper) 1/8NPT thread connections
- Temperature range -25°C to +140°C (according to diaphragm/gasket material)
- NO/NC contacts rated at 0.5(0.2)A/48Vac
- IP54 protection with CAP1 or CAP10.





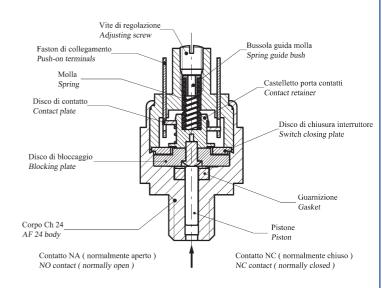


PMN

Esecuzione a membrana Diaphragm execution

Vite di regolazione Adjusting screw Bussola guida molla Faston di collegamento Spring guide bush Push-on terminals Molla Spring Castelletto porta contatti Contact retainer Disco di contatto Contact plate Disco di chiusura interruttore Switch closing plate Disco blocca membrana Diaphragm blocking plate Membrana Diaphragm Corpo Ch 24 AF 24 body Contatto NA (normalmente aperto) Contatto NC (normalmente chiuso) NO contact (normally open) NC contact (normally closed)

Esecuzione a pistone *Piston execution*



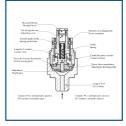


Pressure Switches

PMM







- Adjustment range 0.1 to 300 bar
- Screw connection terminals
- Body in brass, tropicalized steel, 303 or 316 stainless steel
- Diaphragm or gasket in NBR, Viton, EPDM, HNBR, Neoprene, Silicone
- 1/8" BSPT 1/4" BSPT M10x1 (taper) 1/8NPT thread connections

- Temperature range –25°C to +140°C (according to diaphragm/gasket material)
- NO/NC contacts rated at 0.5(0.2)A/48Vac
- IP65 protection with CAP3.



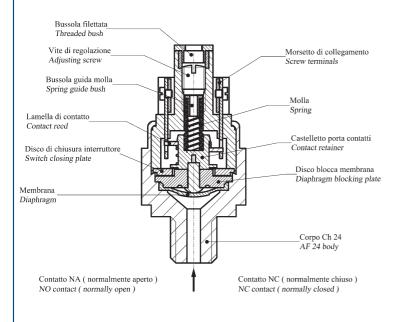


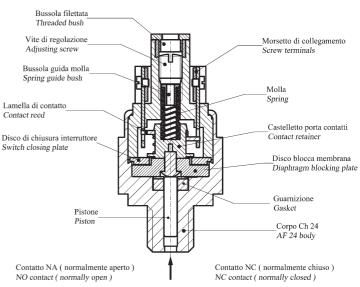


PMM

Esecuzione a membrana Diaphragm execution

Esecuzione a pistone *Piston execution*





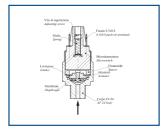


PRESSURE SWITCHES

MS/PS







- Adjustment ranges 0.2 to 300 bar
- Push-on terminals 6.3x0.8
- N/O, N/C or SPDT contacts rated at 6(2)A/250Vac.
- 1/8" BSP and 1/4" BSP standard threads other connections on request
- Body in brass, tropicalized steel body, 303 or 316 stainless steel

- HNBR diaphragm/gasket standard other materials on request
- Temperature range –25°C to +140°C
- IP54 protection with CAP16 and IP65 protection with CAP13.

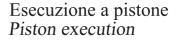


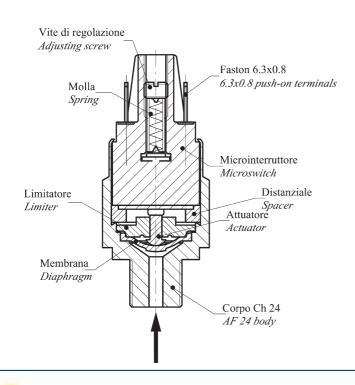


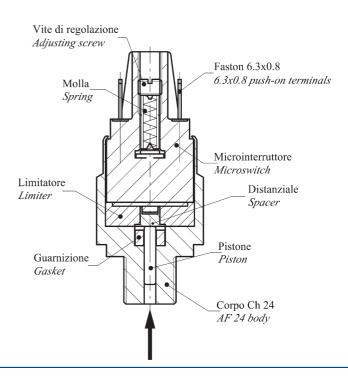


MS PS

Esecuzione a membrana Diaphragm execution





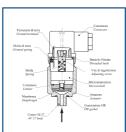




Pressure Switches

PSM / PSP





- · Adjustment ranges 0.2 to 300 bar
- DIN 43650 PG09 connector
- C/O contacts (SPDT) rated at 6(2)A/220Vac
- IP65 protection
- Adjustable hysteresis 10% to 30% of set-point value
- Body in brass, tropicalized steel, 303 or 316 stainless steel

- Diaphragm or gasket in NBR, Viton, EPDM, HNBR, Neoprene, Silicone
- 1/8" BSP 1/4" BSP M10x1 1/8NPT thread connections
- Temperature range -25°C to +140°C (according to diaphragm/gasket material)
- Models available with IMQ and EExia product approvals.

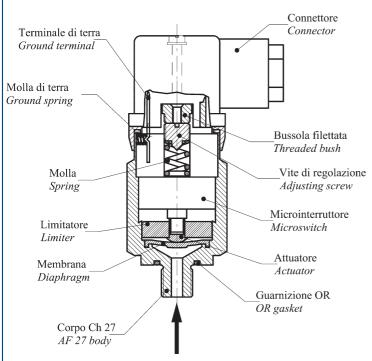




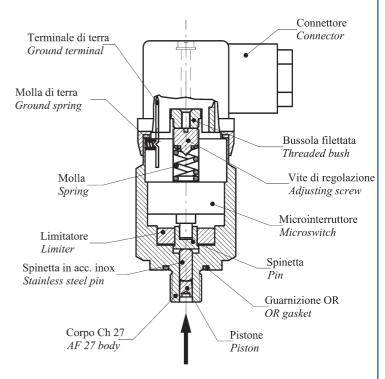


PSM PSP

Esecuzione a membrana Diaphragm execution



Esecuzione a pistone *Piston execution*

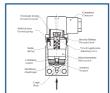




Pressure Switches

PSM...B/PSM...CE





- PSM...B series for manifold assembly
- PSM...CE series suitable for CETOP mounting
- Adjustment ranges 0.2 to 10 bar
- Adjustable hysteresis 10% to 30% of set-point value
- DIN 43650 PG09 connector
- C/O contacts (SPDT) rated at 6(2)A/220Vac

- · Body in anodized aluminium
- Diaphragm in NBR, Viton, Silicone, HNBR, EPDM
- Temperature range –25°C to +140°C (according to diaphragm material)
- PSM/PSP...CE available in Tropicalized steel for adjustment ranges up to 300 bar.

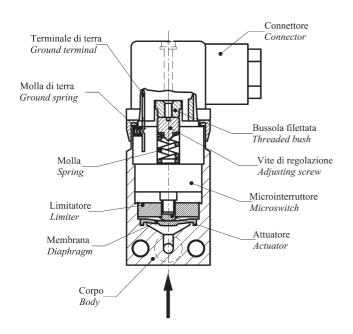


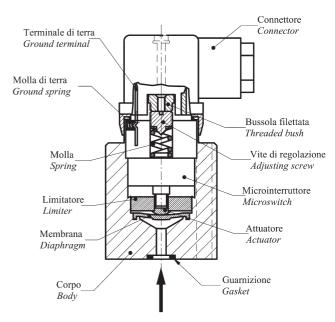




PSM....B

PSM....CE



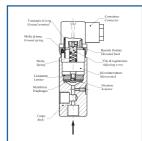




Pressure Switches

PSM/PSP...AM





- Designed with port for gauge (1/4" BSP)
- 0.2 to 300 bar adjustment ranges
- Adjustable hysteresis (10% to 30% set value)
- SPDT contacts rated at 6(2)A/250Vac
- Bottom 1/4" BSP port or side entry for manifold mounting (M5x40)
- Temperature range –25°C to +140°C (according to diaphragm/gasket material)
- Blue anodized aluminium or tropicalized steel body
- Standard HNBR diaphragm/gasket, Viton or EPDM on request
- DIN 43650 PG09 connector
- IP65 protection.

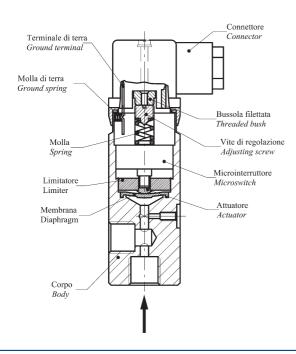






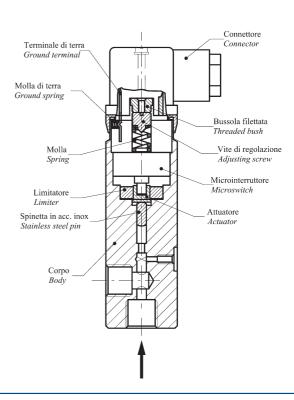
PSM...AM

Esecuzione a membrana Diaphragm execution



PSP...AM

Esecuzione a pistone *Piston execution*

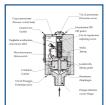




Pressure Switches

PMC/PPC/PPCF/PMC.. - PPC...P





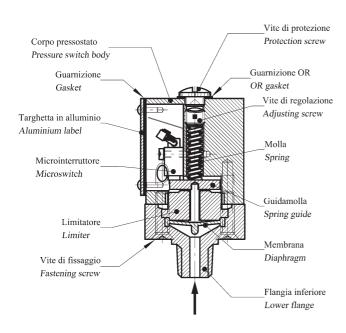
- Adjustment ranges 0.15 to 300 bar
- DIN 43650 PG09 connector
- C/O contacts (SPDT) rated at 3(2)A/220Vac
- Hysteresis ≤30% of set-point value
- Aluminium body, flange in nickel-plated steel
- · NBR diaphragm or gasket

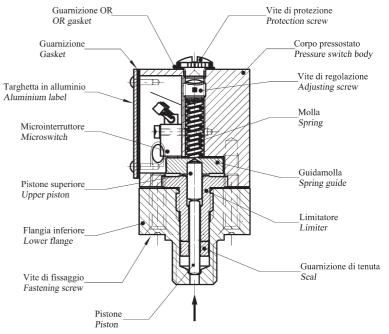
- 1/8" BSPT 1/4" BSPT male connection or suitable for manifold mounting according to CETOP standards
- Temperature range -5°C to +80°C
- Models available with EExia approval.





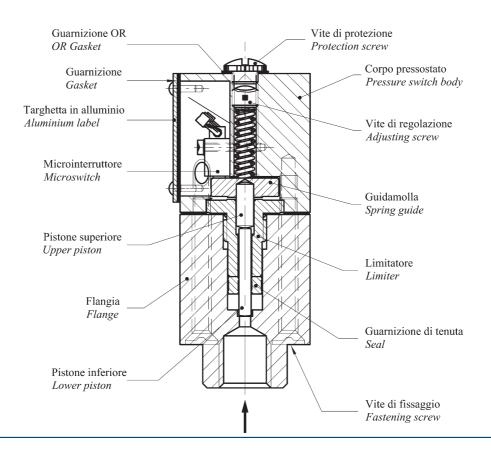
PMC PPC







PPCF

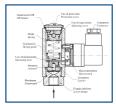




PRESSURE SWITCHES

PML / PPL





- Adjustment ranges 0.5 to 350 bar
- DIN 43650 PG09 connector
- C/O contacts (SPDT) rated at 3(2)A/220Vac
- Hysteresis ≤30% of set-point value
- Aluminium body

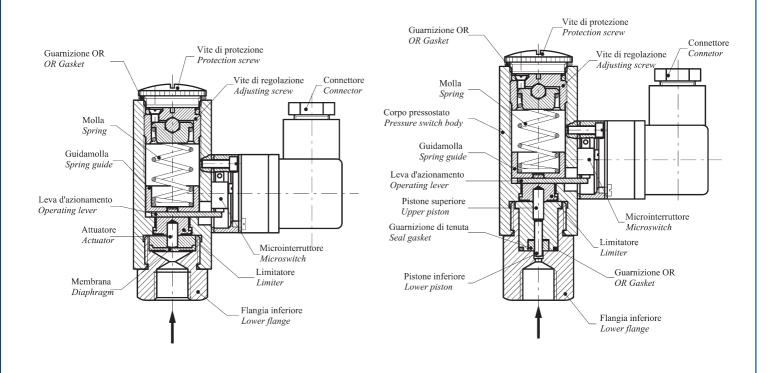
- G1/4 female connection
- Diaphragm or gasket in NBR, HNBR, Viton, EPDM
- Temperature range –5°C to +80°C.
- Models available with EExia approval.







PML PPL

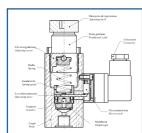




PRESSURE SWITCHES

PSK





- · Adjustment ranges 10 to 360 bar
- Designed with graduated knob for easy adjustment
- Body in yellow anodized aluminium
- NBR diaphragm or gasket
- Fixed hysteresis

- SPDT contacts rated at 3A/220Vac
- 1/4" BSP thread connection but also suitable for manifold assembly
- Temperature range -5°C to +80°C
- IP65 protection.





PSK100

Esecuzione a membrana Diaphragm execution

Manopola di regolazione Adjusting knob Scala graduata Graduated scale Connettore Connector Vite di regolazione Adjusting screw Molla Spring Guidamolla Spring guide Leva d'azionamento Operating lever

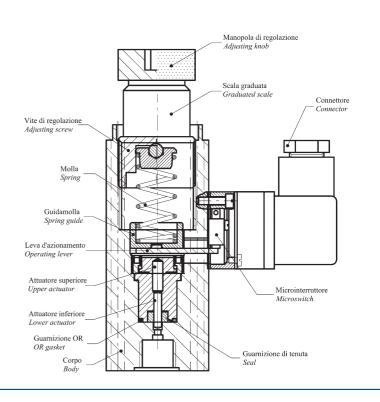
Microinterruttore Microswitch

Membrana

Diaphragm

PSK360

Esecuzione a pistone *Piston execution*





Attuatore

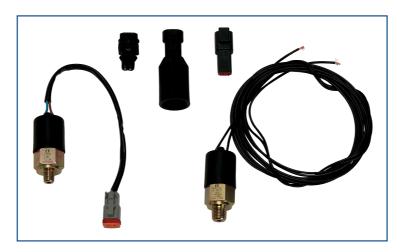
Actuator

Corpo

Body

PRESSURE SWITCHES

Customized executions



- PMN PMM MS/PS series
- Special thread connection (metric, taper or parallel)
- IP67 protection
- Potted flying leads with or without connector

- Epoxy encapsulated caps equipped with integrated plug
- Wide choice of connectors and plugs
- Type and length of cable to customer's need
- Factory pre-set.







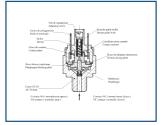


VACUUM SWITCHES

VCE







- Adjustment ranges -200 to -900mbar
- 6.3x0.8 push-on terminals
- Body in brass
- Diaphragm in NBR

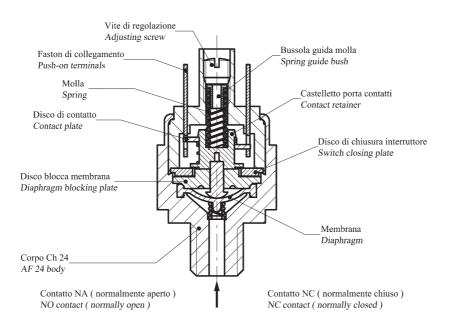
- 1/8" BSPT 1/4" BSPT thread connections
- Temperature range -5°C to +60°C
- NO/NC contacts rated at 0.5(0,2)A/48Vac-dc
- IP54 protection with CAP1 or CAP10.







VCE



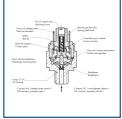


VACUUM SWITCHES

VCN2







- Adjustment ranges -200 to -900 mbar
- 6.3x0.8 push-on terminals
- NO/NC contacts rated at 0.5(0.2)A/48Vac,
- Tropicalized steel body (stainless steel AISI 303 on request)
- 1/8" BSPT 1/4" BSPT thread connections

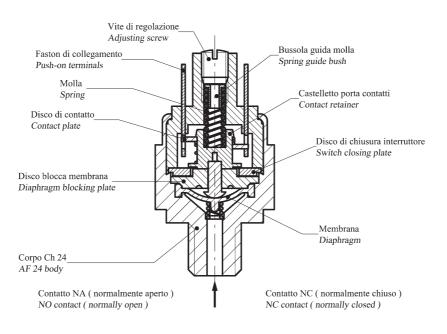
- Diaphragm in NBR, Viton, Silicone, HNBR or EPDM
- Temperature range –25°C to +140°C (according to diaphragm material)
- IP54 protection with CAP1 or CAP10.







VCN2



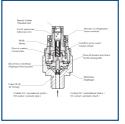


VACUUM SWITCHES

VCM1







- Adjustment ranges -200 to -900 mbar
- Screw connection terminals
- NO/NC contacts rated at 0.5(0.2)A/48Vac
- Tropicalized steel body (stainless steel AISI 303 on request)
- 1/8" BSPT 1/4" BSPT thread connections

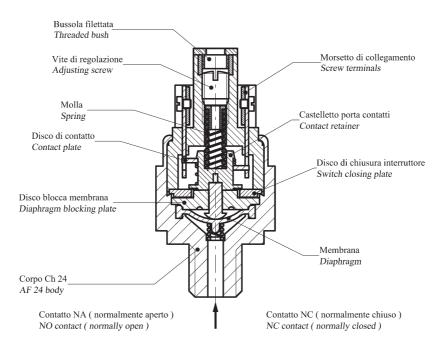
- Diaphragm in NBR, Viton, Silicone, HNBR or EPDM
- Temperature range –25°C to +140°C (according to diaphragm material)
- IP65 protection with CAP3.







VCM1



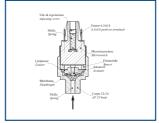


VACUUM SWITCHES

VS







- Adjustment ranges -200 to -900 mbar
- Push-on terminals 6.3x0.8
- N/O, N/C or SPDT contacts rated at 6(2)A/250Vac
- 1/8" BSP and 1/4" BSP standard threads
- Tropicalized steel body 303 or 316 stainless steel option

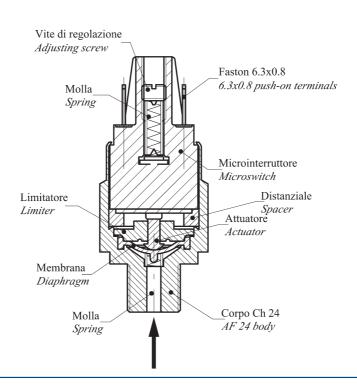
- NBR diaphragm Viton, HNBR, or Silicone on request
- Temperature range –25°C to +140°C (according to diaphragm material)
- Protection to IP54 with CAP16 and protection to IP65 with CAP13.







VS

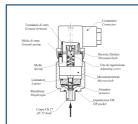




VACUUM SWITCHES

VSM





- Adjustment ranges -100 to -900 mbar
- DIN 43650 PG09 connector
- C/O contacts (SPDT) rated at 6(2)A/220Vac
- Protection IP65
- Factory adjustable hysteresis 10% to 30% set-point value
- Body in tropicalized steel 303 or 316 stainless steel on request

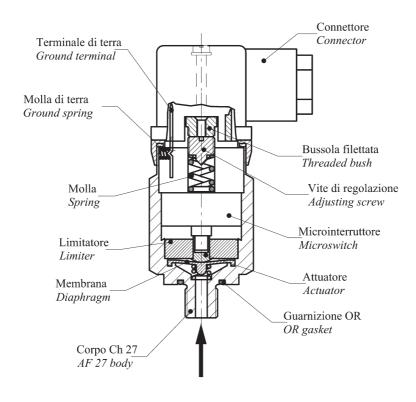
- NBR diaphragm (other materials available)
- 1/8" BSP 1/4" BSP threads
- Temperature range –25°C to +140°C (according to diaphragm material).







VSM

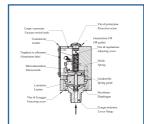




VACUUM SWITCHES

VMC





- Adjustment ranges from -200 to -900 mbar
- DIN 43650 PG09 connector
- C/O contacts (SPDT) rated at 3(2)A/220Vac
- Hysteresis ≤30% set-point value

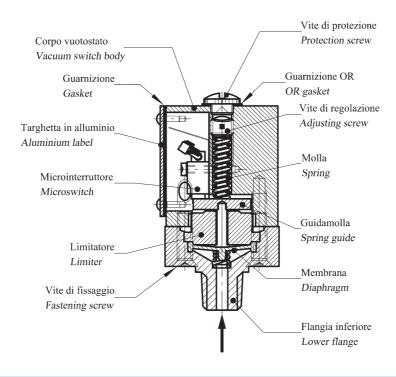
- Anodized aluminium body, flange in nickel-plated steel
- 1/4" BSPT connection
- Standard NBR diaphragm
- Temperature range -5°C to +80°C







VMC



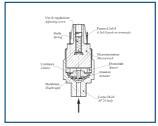


SWITCHES FOR PNEUMATIC APPLICATIONS

MSA/VSA







- Pressure and vacuum switches
- 6.3x0.8 push-on terminals
- 0.2 to 10 bar and -200 to -900 mbar adjustment ranges
- N/O, N/C or SPDT contacts rated at 6(2)A/250Vac
- 1/8" BSP and 1/4" BSP standard threads
- MSA designed with blue anodized aluminium body and HNBR diaphragm

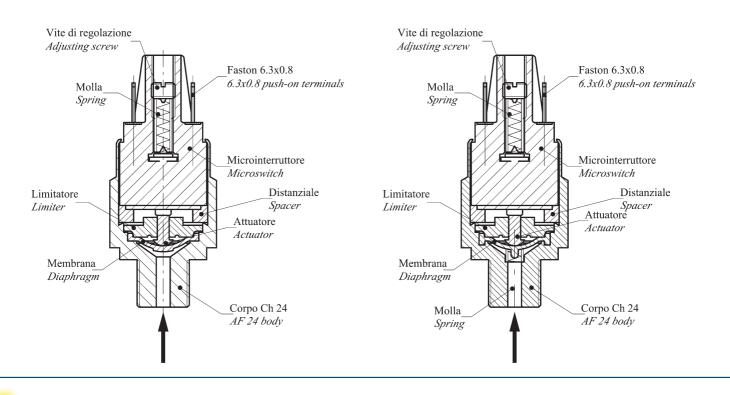
- VSA have red anodized aluminium body and NBR diaphragm
- Temperature range from -25° to +140°C (according to diaphragm material)
- Protection to IP65 with CAP13 and IP54 with CAP16.







MSA VSA

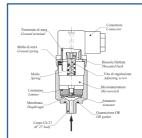




SWITCHES FOR PNEUMATIC APPLICATIONS

PSA





- 0.2 to 10 bar adjustment ranges
- Adjustable hysteresis (10% to 30% set value)
- SPDT contacts rated at 6(2)A/250Vac
- 1/8" BSP and 1/4" BSP standard threads
- Blue anodised aluminium body

- HNBR diaphragm
- Temperature range –25°C to +140°C
- DIN 43650 PG09 connector
- IP65 protection.







PSA

