



Filters . Accumulators  
an ISO 9001 Company

- Stroke 75mm, including spring reset
- For any required position
- 2 switching points  
1 contact breaker & 1 contact maker

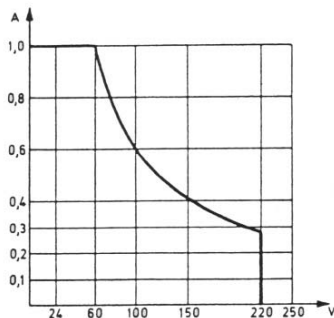
#### Technical Data of the Switches

Housing	Fiber-glass reinforced polyamide
Protection	IP 65
Connection	Cable H03 VV-F 2 x 0.75 mm <sup>2</sup> (NYLHY-02x0.7mm <sup>2</sup> ) 500mm long
Temp. Range	-25 .. +75° C
Switching data	
Speed	max. 18 m/s
Frequency	max. 300 S/s
Time	making - 0.3ms - 1.5ms breaking- max. 0.5ms bounce - 0.3ms - 0.6ms
Life	
Mechanical	min. 10 <sup>9</sup> operation <sup>s</sup>
Electrical	min. 10 <sup>6</sup> - 10 <sup>9</sup> operations depending on circuit characteristics

Making / breaking capacity	- See graph
Flashover Voltage	>600 V (50 Hz)
Restarting accuracy	± 0.25 mm
Vibration resistance	15 g (sinusoidal vibr)
Weight	55 gms

#### Making and / or Breaking Capacity

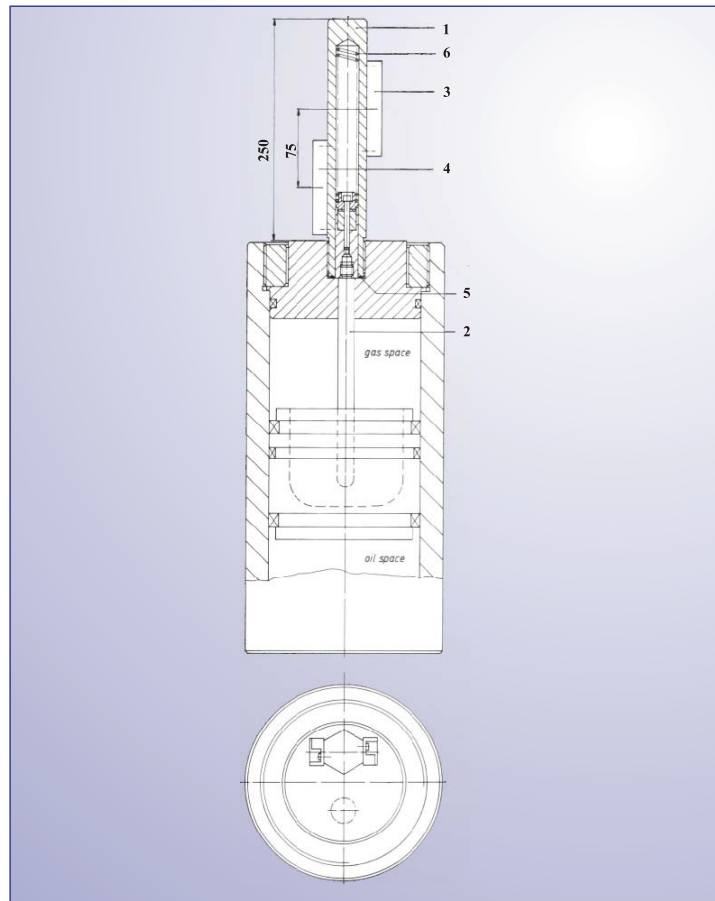
Voltage	max. 220 V
Current	max. 1 A
Power	max. 60 VA max. 60W



**EPE PROCESS FILTERS & ACCUMULATORS PVT LTD**  
An ISO 9001 Company

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## Limit Switching Device, Type-ES



**Description:-** The electrical limit switching device consists of a non-magnetic casing (1), a switch rod fitted with a set of permanent magnets (2), 1 contact breaker limit switch (3) and 1 contact maker limit switch (4). These switches (3 & 4) are normally supplied with 5 m of cable. The limit switch unit, and its seal (5) is mounted on the gas side end cover of the accumulator. The casing (1) is pressurized. This system does not allow the use of “multi-switching”.

**Operation:-** The piston rod (2) extends into the gas side of the accumulator. When the accumulator is filled with liquid the piston moves the rod against the spring (6). When the piston reaches the upper limit of its travel, the limit switch (3) will operate thus allowing various functions to be performed, e.g., pump switch-off, by-pass operation, etc. When the liquid pressure falls, allowing the piston to move to the bottom of the accumulator, the spring (fixed) moves the switch rod down to the lower limit switch (4) thus allowing the pump to be reactivated and the accumulator to be recharged.

**Note:-** As the piston rod magnet cannot pass below the lower limit switch (4), the switch-on signal will always show when the piston is at its lowest position.



Note : Technical specifications are subject to change.

Catalogue Ref. : EPE/ES/09-10/001