

TWO-LINE ELECTRIC STOP-COCK

EUK

APPLICATION

Electrical driven cocks are part of two-line central lubrication. They are inserted into the main line after the lubrication pump outlets or at the beginning of the secondary lines (branches) of two-line lubrication circuit and are used to break the lubricant delivery simultaneously in both pipe lines of the main or secondary branch of lubrication circuit. They are used to divide the long main line sectors and separate secondary branches of lubrication circuits by the need of different operation cycles of individual parts of lubrication circuit, for the partial break during the reparations of technological equipment.

DESCRIPTION

Stopcock consists of a distribution block fixed on a base plate in which is a lapped distribution piston. On the front of the piston is a drift fork on the back is a pointer which operates an end-line line switch. Piston movement is ensured by a continuous high torque electro motor which guarantees safe run also in difficult working conditions e.g. low environmental temperature or high consistency and viscosity of lubricant.

A transformer, rectifier and protection is situated in the box which is fixed by screws to the base plate. The whole equipment is provided with a metal cover with connections for current supply and G3/8" or M16x1.5 holes in the distribution block for inlet and outlet connection.

In the case where an EUK is inserted into the filling piping (one inlet and one outlet), the inlet is not used and outlet is plugged with a plug.

OPERATION

The rotating movement of the motor is transmitted through an eccentric with a bearing and stirrup to the straight movement of the piston. As soon as it has rotated sufficiently from the original position (0° - 180°) or (180° - 360°) the contact, 3 - 4 or 1 - 2, of the end-line switch operates and stops the motor. The signal for the repeated run (transposition of the position) is activated by outer impulse (of 1 sec. duration min.) e.g. from the driving system of the lubrication system. In regard of short time of run, the piston overcomes the critical places with small covering by high speed. This avoids early wear of sealing areas.

SERVICE AND MAINTENANCE

EUK cocks are mounted in the horizontal position by four M8 anchor screws. The anchor screws, mounting holders, squares, etc. are not part of delivery.

After mounting the cock in the designated place the inlet pipe-line is connected and the lubricant passed through the pipe-line. When the lubricant exits without air bubbles, the outlet pipe line can be connected. During mounting, the individual pipe-lines of the two-line lubrication circuit cannot be exchanged or crossed. The connection to the electric supply is done according to the electro-wiring diagram while observing the relevant standards for electric equipment. EUK cocks do not need any maintenance or service. In permanent operation it is recommended to check the connection of the pipe-line of the lubrication circuit for leakage once every three months.

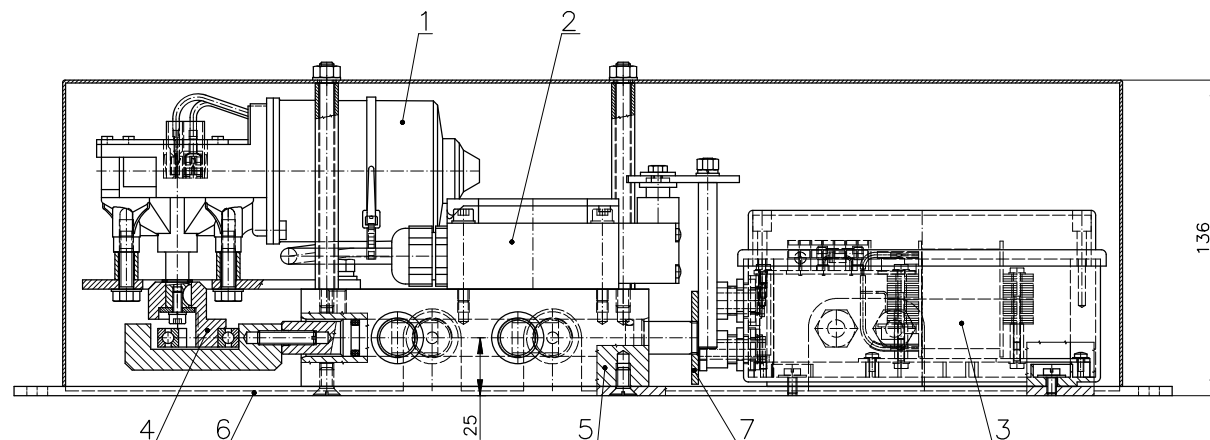
If the cock is under pressure in one position more than 200 operational hours, it is recommended to switch-over for a short time (about 2 sec.) from one position to the other (this protects slider aggradation caused by dirt).

TECHNICAL DATA

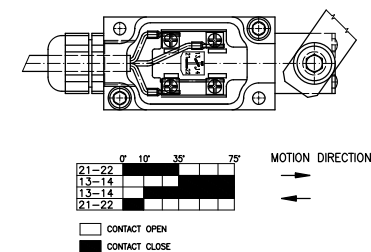
Maximum pressure		400 bar
Working pressure		350 bar
Number of inlets		2
Number of outlets		2
Inlet pipe union		G3/8", M16x1.5 mm
Outlet pipe union		G3/8", M16x1.5 mm
Time of run /transposition/		0,5 sec.
Angle of rotation		180°
Turning moment		20 Nm (2 kpm)
Operating voltage		230V AC, 50Hz, 1A 24V DC, 1A
Coverage		IP54
Electric motor		24V DC, 1A, 24W
Lubricant	grease	max. NLGI-2
	oil	min. 50 mm ² /sec.
Temperature of working environment		-25 to 80°C
Weight		14.8 kg
Assembly position		horizontal

NOTE:

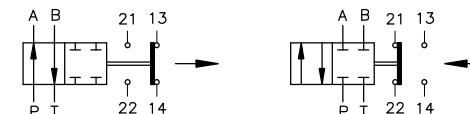
Upon customer request the electric stopcock can be provided with a second terminal switch that signals the final position of the piston. This position is selectable: cock either open or closed. The outlets of the switch end in a terminal box, to which the outlet of the signalling device on the machine is connected and is guided from the box through a bush (brown feed cable).



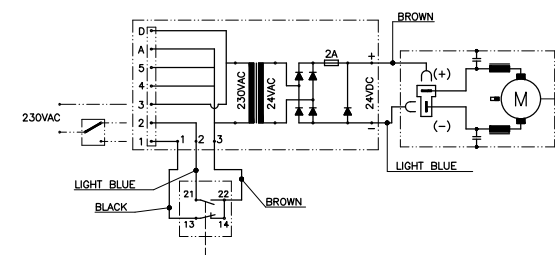
DETAIL SWITCH WIRING



POSITION OF TERMINAL SWITCH CONTACTS SWITCHING



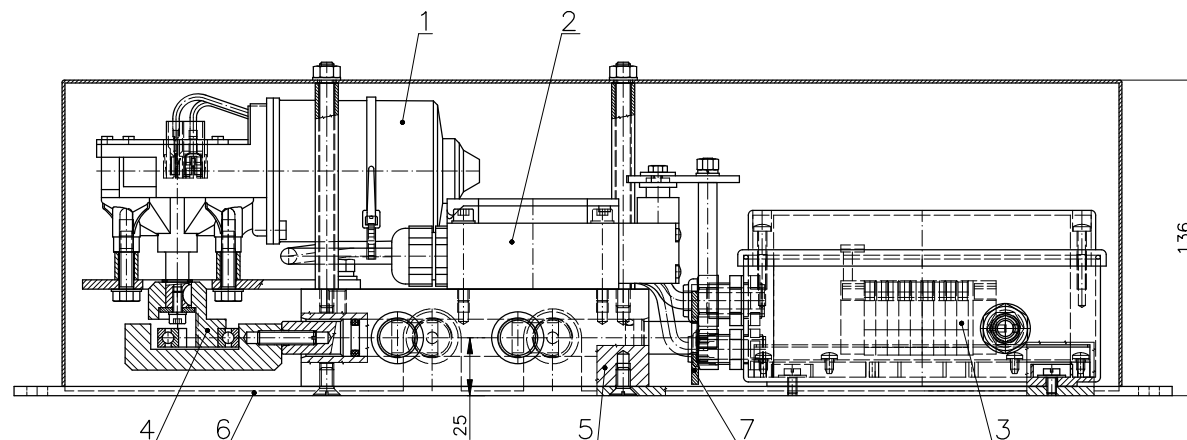
WIRING DIAGRAM



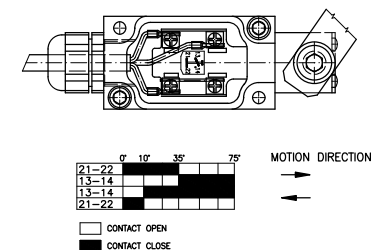
Pos	Name
1	Electric motor
2	Terminal switch
3	Power supply section
4	Feed cam
5	Distributor body
6	Base plate
7	End stop

	Voltage	ØD
9 52 0823	230 VAC	G3/8
9 52 0824	230 VAC	M 16x1.5

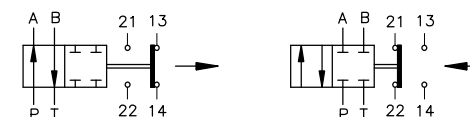
Name	TWO-LINE ELECTRIC STOP-COCK	tribotec s.r.o. Košuličova 4 Brno www.tribotec.cz +420 543 425 611
Type	EUK	
Code	9 52 0823, 9 52 0824	



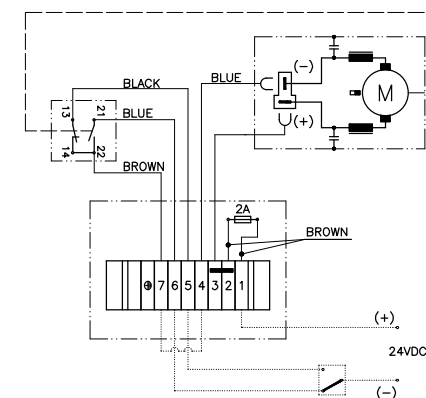
DETAIL SWITCH WIRING



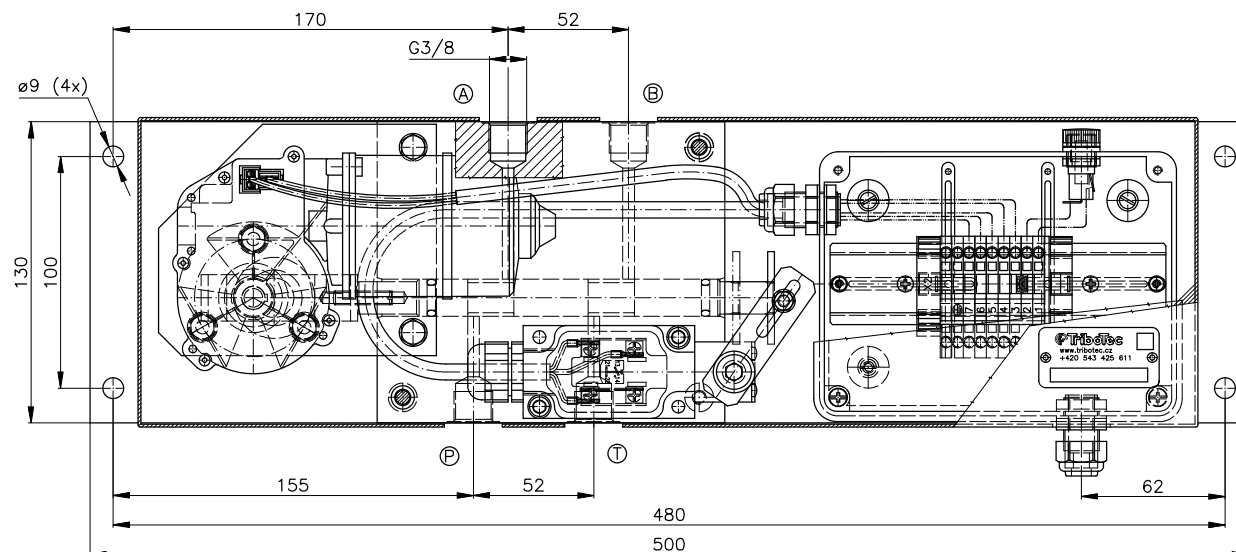
POSITION OF TERMINAL SWITCH CONTACTS SWITCHING



WIRING DIAGRAM



Pos	Name
1	Electric motor
2	Terminal switch
3	Power supply section
4	Feed cam
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Name	TWO-LINE ELECTRIC STOP-COCK	 tribotec s.r.o. Košuličova 4 Brno www.tribotec.cz +420 543 425 611
Type	EUK 24VDC-G3/8	
Code	9 52 0827	