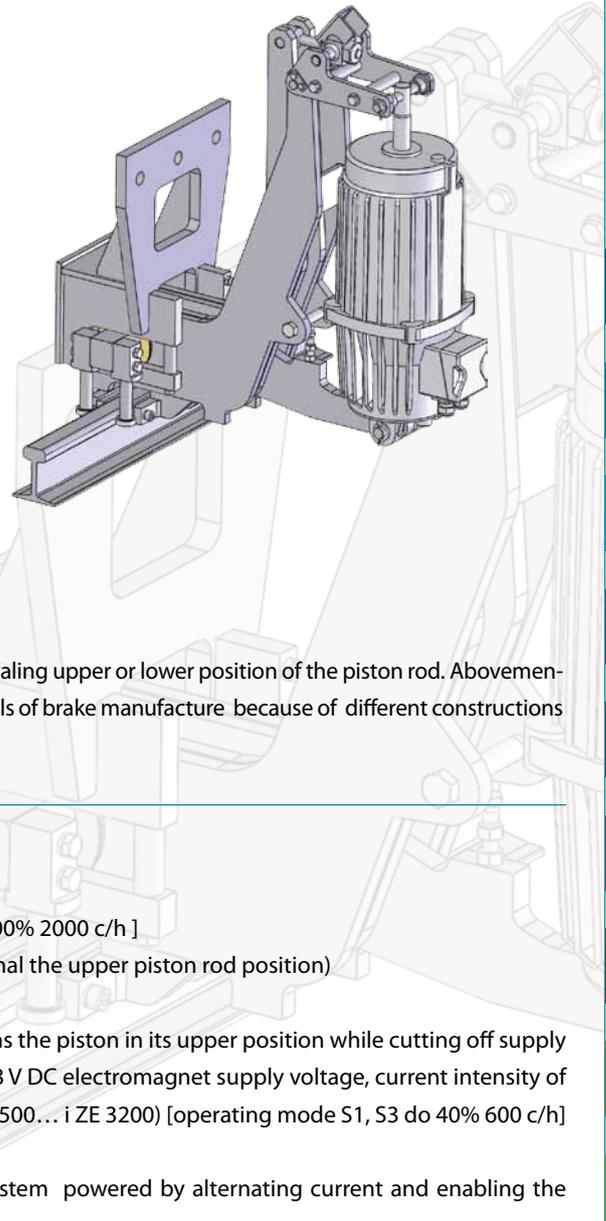


AHS rail brakes with electrohydraulic thrusters of ZE type are adjusted to cooperation with lateral surfaces of traffic rails on which throw-off carriage of the conveyor moves. They are going to prevent the movement of the carriage in the result of forces coming from for example the belt of the conveyor (with turned on drive of the carriage). Braking torque is created by the spring inbuilt in the body, which through the compound lever causes pressing down of the brakes shoes to the lateral surfaces of the rail head. Turning the voltage supplying the thrustor on starts the motor and the pump forcing the oil under the piston of the release which causes that the piston moves up and the brake is released. Turning off the supply causes that the piston moves down (under the influence of the spring inbuilt in the thrusters) and the brake is applied.

The speed of raising or falling of the piston can be adjusted through the use of the valve delaying the falling or raising of the piston. ZE thrusters can be equipped with inductive sensor of piston rod position mounted outside or with external mechanical switch signaling upper or lower position of the piston rod. Abovementioned sensors and switches require appropriate source of supply. The details of brake manufacture because of different constructions of the carriages are established individually.



Thrusters:

electrohydraulic thrusters types:

ZE... S... – thrustor with the brake spring, [operating mode S1, S3 to 100% 2000 c/h]

ZEW... S... – thrustor with the brake spring and connector (allows to signal the upper piston rod position) [operating mode S1, S3 do 100% 2000 c/h]

ZEM... S... – thrustor with the brake spring and electromagnet (maintains the piston in its upper position while cutting off supply of the thrustor motor) [type of work S1, S3 40% 600 c/h] 38 V DC electromagnet supply voltage, current intensity of 0,4 A for size thrustor ZE 2500... I 38V DC I 0,8 A for size ZE 2500... i ZE 3200) [operating mode S1, S3 do 40% 600 c/h]

/ S1- continuous work; S3- intermittent work /

For supplying the brakes with ZEM releases appropriate UZ supply system powered by alternating current and enabling the connection of the electromagnet can be provided.

The releases can be equipped with the valves delaying: **P** - raising, **O**- falling, **T**- raising and falling.

Conditions of operation: degree of protection IP 65; ambient temperature: -25°C to +40°C (electroinsulating transformer oil); -40°C to +50°C (silicone oil)

“Ci” inductive sensor of piston rod position

Marking	Sensor type	Operation method	Output type
B1	E2A-M18-KS08-M1-B1	NO	PNP
C1	E2A-M18-KS08-M1-C1	NO	NPN
B2	E2A-M18-KS08-M1-B2	NC	PNP
C2	E2A-M18-KS08-M1-C2	NC	NPN

Supply voltage: 12 do 24 VDC; current: 10mA max

“Cm” mechanical switch: D4M-5171 of closing-opening contacts system NO/NC.

AC-15 6A/230V 4A/400V-3A/500V

DC-13 6A/24V 0,4A/250V

Material: steel, asbestos-free friction lining; ZE thrustor cases - aluminium, self-lubricating sleeves;