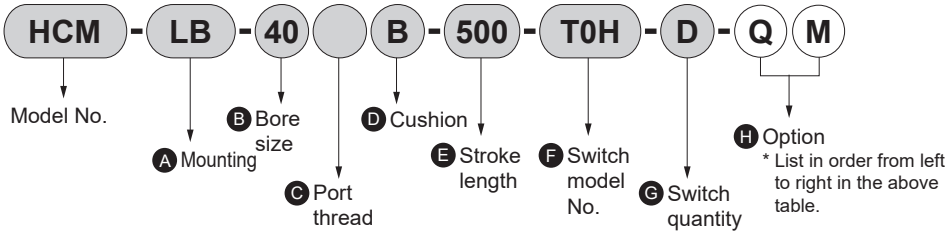
Variation and option combination selection table

◎ : Option
○ : Available (made-to-order product)
△ : Available depending on conditions (Contact CKD.)
× : Not available

Category		Category	Variation			Port thread			Option		
			Double acting basic	With cylinder switch		NPT	G		Switch rail attached at shipment	Piston rod material stainless steel	Specify piston rod end form
		Code	None	None		N	G		Q	M	N*
Variation	Double acting basic	Blank		◎		○	○		×	◎	○
	With cylinder switch	Blank				○	○		◎	◎	○
Port thread	NPT	N					×		○	○	○
	G	G							○	○	○
Option	Switch rail attached at shipment	Q								◎	○
	Piston rod material stainless steel *1	M									○
	Specify piston rod end form	N*									
Accessory	Cylinder switch	Listed separately	◎	◎		○	○		◎	◎	○
	Rod eye	I	◎	◎		○	○		◎	◎	△
	Rod clevis	Y	◎	◎		○	○		◎	◎	△

*1 : ø20 and ø25 are piston rod material SUS as standard. Only ø32 to ø63 are available as an option.

[Example of model No.]

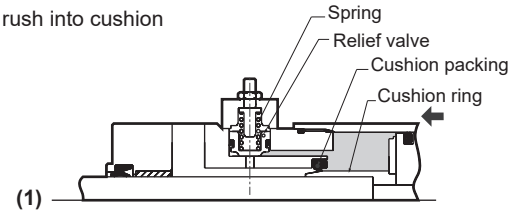


Model No.: High energy absorption cylinder
●Variation : Double acting/basic
Ⓐ Mounting : Axial foot
Ⓑ Bore size : ø40 mm
Ⓒ Port thread : Rc thread
Ⓓ Cushion : Both sides cushioned
Ⓔ Stroke : 500 mm
Ⓕ Switch model No.: Reed T0H switch, lead wire 1 m
Ⓖ Switch quantity : 2
Ⓗ Option : Switch rail attached at shipment, piston rod material (stainless steel)

Cushion operational principle

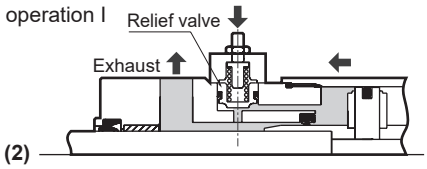
(1) When the piston operates and the cushion ring rushes into the cushion packing, an airtight space is formed in the ▭. As the piston moves further, the air in the ▭ is compressed, absorbing the kinetic energy in the operating direction.

● Before rush into cushion



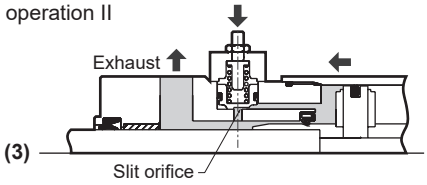
(2) The relief valve is opened by compressed air at the same time. Compressed air is instantaneously discharged and the relief valve closes.

● Cushion operation I



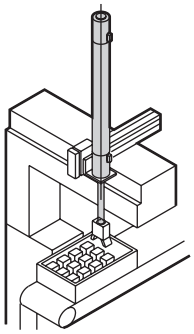
(3) After the relief valve closes, the remaining compressed air is exhausted from the slit orifice. The piston moves and contacts the cover. The energy absorption stroke is completed at this time.

● Cushion operation II



Applications

● Resin molding machine ejection robot



● Machine door open/close