CO-50

I-HO B-HO Zspeed

CO-50

I-HO B-HO RandL

SOU,000

Cycles

COU-50

I-HO B-HO Aspeed

RorL

SOU,000

Cycles

RYOBI CO-50 COU-50 CONCEALED DOOR CLOSERS

RYOBI CONCEALED D CO-50 and COU-50

HIDDEN POWER

When the aesthetic appearance of the door is compromised by the need for a door closer, then the obvious choice is a concealed unit. Ryobi recognize that, due to the different sizes and weights of doors, the requirement is for a series of concealed closers designed to perform efficiently in each application. The solution is the CO-50 and COU-50 series: a complete range of concealed closers, covering size 2-6 doors, designed to be compact, durable and reliable, whatever the door specification.



To meet the necessity for a concealed closer to be ultra slim and yet withstand the high pressures generated in such a compact housing, the CO-50 and COU-50 series uses Ryobi's advanced R14 Aluminium Alloy Die-castings throughout the range. This high silicon alloy, developed by Ryobi for its automotive cylinder blocks, is unique in its exceptional strength and low friction properties.

Full hydraulic controls, the precision of a rack and pinion mechanism, together with the availability of speed controls and backcheck functions, the CO-50 and COU-50 series, provides the highest level of features built into a quality product, that will deliver a life long performance.

OOR CLOSERS

WORLD CLASS TECHNOLOGY

Ryobi are the world's largest manufacturer of Aluminum die-castings and world leaders in door closer design. The CO-50 and COU-50 range of concealed door closers have been developed by utilizing the advanced design technology and highest standards of quality that only Ryobi can demonstrate. Combining the advanced R14 alloy and state of the art production methods, the CO-50 and COU-50 series is guaranteed to provide an unrivaled quality and a lifetime of trouble free service.



CONCEALED BYOBI CO-50 DOOR CLOSERS RYOBI CO-50

■CO-50/COU-50 INSTALLATION OPTIONS

In order to ensure total adaptability to the widest range of applications, the concealed series is available with a choice of either standard or top jamb installations. To further enhance the ranges flexibility, options such as hold open and nonhanding for the CO-50 are also available.



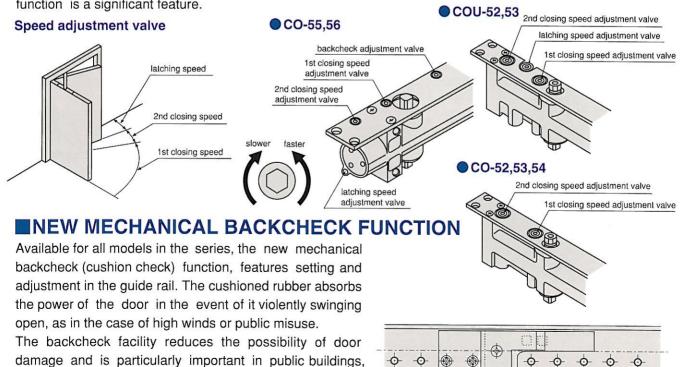


■EXCEPTIONAL PERFORMANCE-EXCEPTIONAL VALUE

Ryobi's technology in high quality die-casting and advanced production methods have been combined to produce a highly competitive range of performance closers. In-house tested to 500,000 cycles and incorporating precision rack and pinion mechanisms, the concealed closer range offers outstanding quality and performance at a very realistic price.

FULLY HYDRAULIC CONTROLS

Maximum control over the doors closing speed is provided by the easy to operate hydraulic adjustment, whilst the versatile hydraulic mechanism also allows for 1st and 2nd closing (as illustrated), ensuring a smooth and independent control over the doors movement. The added benefit of a latching speed control is available with the COU-50 series and CO-55,56, whilst for the heavy duty CO-55 and 56 a new, adjustable, hydraulic backcheck function is a significant feature.



Note:CO-55,56 have hydraulic backcheck function.

Mechanical backcheck function is not necessary for CO-55,56.

schools and hospitals where the protection of people and

property is paramount.

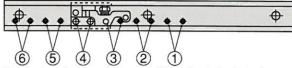
COU-50

■ADJUSTABLE DOOR STOP/HOLD OPEN/BACKCHECK ANGLE & HOLD OPEN FORCE

By the positioning of stopper, stop metal fitting (hold open device), and mechanical backcheck device, the door stop angle, hold open angle and backcheck angle are adjustable as required. Hold open force is also adjustable by the hold open force adjustment nut as shown in the chart.

Adjustment of door stop/hold open/ backcheck angle

Door stop/Hold open/backcheck angle are adjustable by the posistioning of stopper/stopmetal fitting (hold open device), and mechanical backcheck device at 1~6 as shown in illustration.

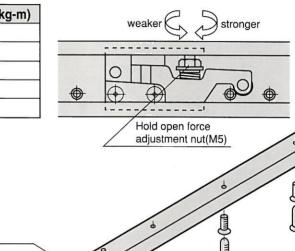


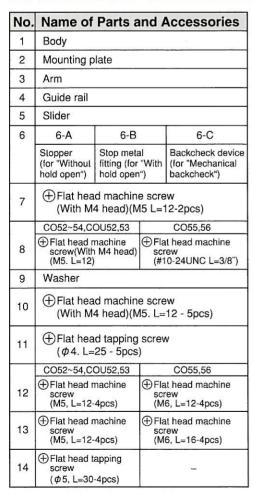
Positioning of stopper/stop metal fitting/backcheck device *This illustration shows the positioning of stop metal fitting (hold open device) at 4. Please see each drawings for the details.

Adjustment of hold open force

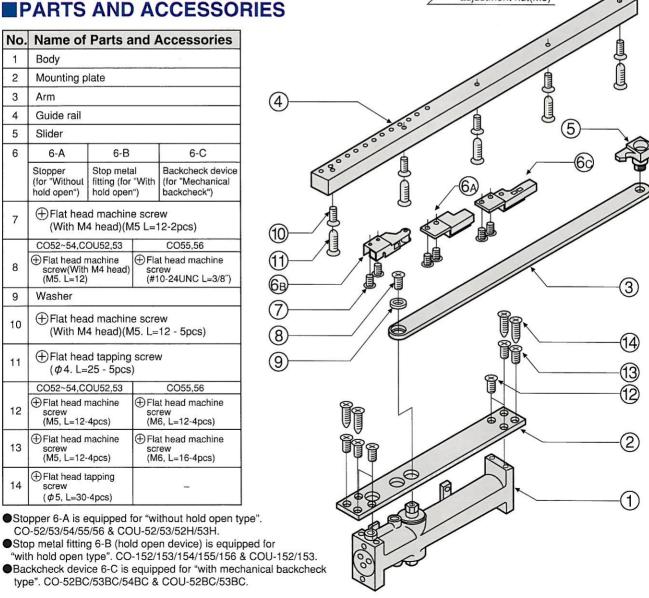
Hold open force is adjustable by the hold open force adjustment nut.

Model	Adjustable range(kg-m)				
CO/COU-152	0~3.6				
CO/COU-153	0~3.1				
CO-154	0~2.7				
CO-155	0~3.7				
CO-156	0~1.5				





- Stopper 6-A is equipped for "without hold open type". CO-52/53/54/55/56 & COU-52/53/52H/53H.
- Stop metal fitting 6-B (hold open device) is equipped for "with hold open type". CO-152/153/154/155/156 & COU-152/153.
- Backcheck device 6-C is equipped for "with mechanical backcheck type". CO-52BC/53BC/54BC & COU-52BC/53BC.



CONCEALED BYOBI CO-50 DOOR CLOSERS RYOBI

■ MODEL CHART

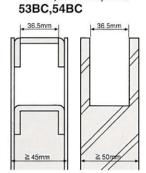
Model Number		Max door	Max door						
				Steel door		Wooden door		Body	
Without hold open	With hold open	With Backcheck	dimensions	weight	Standard installation	Top jamb installation	Standard installation	Top jamb installation	thickness
CO-52	CO-152	CO-52BC	900×2100	45kg	≧40mm	≧38mm	≧45mm	≧43mm	31mm
CO-53	CO-153	CO-53BC	950×2100	65kg	≧45mm	≧38mm	≧50mm	≧43mm	36mm
CO-54	CO-154	CO-54BC	1050×2400	85kg					36mm
CO-55 R	CO-155 R	-	1200×2400	120kg	- ≧60mm	≧60mm	≧65mm	≧60mm	48mm
CO-55 L	CO-155 L	-							48mm
CO-56 R	CO-156 R	-	1800×2700	180kg					48mm
CO-56 L	CO-156 L	-							48mm

Note: Hydlaulic backcheck function is standard function for CO-55 & 56.

Door cut dimension

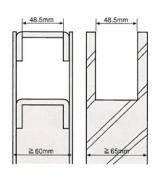
CO-52 / 152 / 52BC

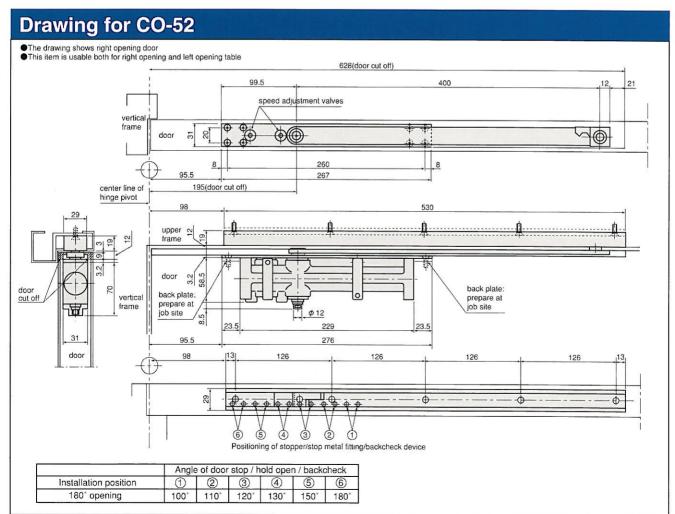
31.5mm 31.5mm 31.5mm 31.5mm ≥ 45mm

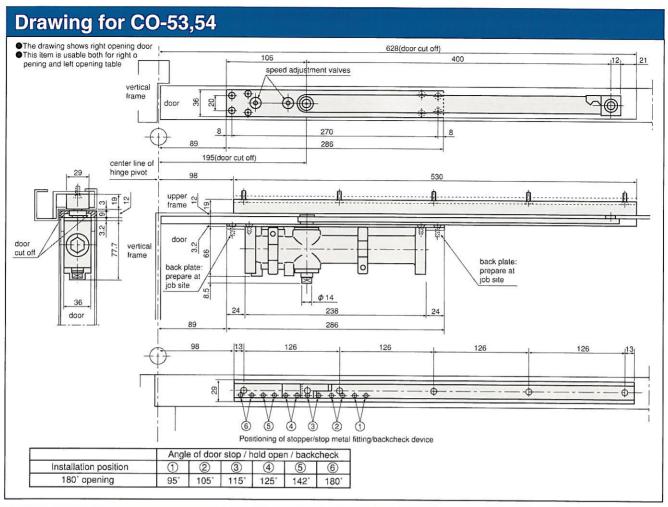


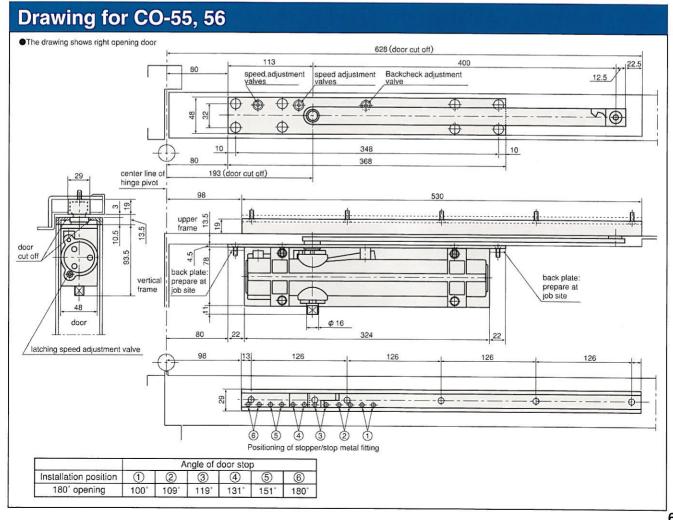
CO-53,54 / 153,154 /

CO-55,56 / 155,156





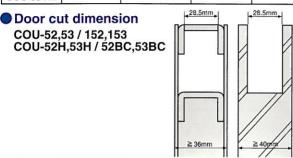


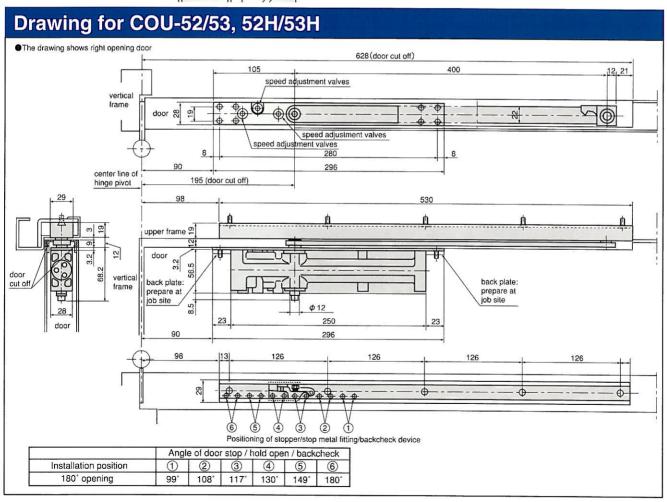


CONCEALED BYOBI COU-50 DOOR CLOSERS RYOBI COU-50

■ MODEL CHART

Model Number		Max door	Max door	Door thickness					
				Steel door		Wooden door		Body	
Without hold open	With hold open	With Backcheck	dimensions	weight	Standard installation	Top jamb installation	Standard installation	Top jamb installation	thickness
COU-52 R	COU-152 R	COU-52BC R	900×2100	45kg	- ≧36mm	≧36mm	≧40mm	≧40mm	28mm
COU-52 L	COU-152 L	COU-52BC L							28mm
COU-53 R	COU-153 R	COU-53BC R	950×2100	65kg					28mm
COU-53 L	COU-153 L	COU-53BC L							28mm
COU-52 HR			900×2100 950×2100	45kg	- ≧36mm	≧36mm	≧40mm	≧35mm	28mm
COU-52 HL									28mm
COU-53 HR				65kg					28mm
COU-53 HL									28mm





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