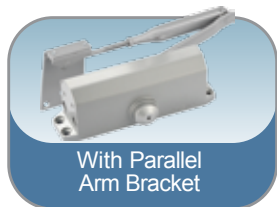
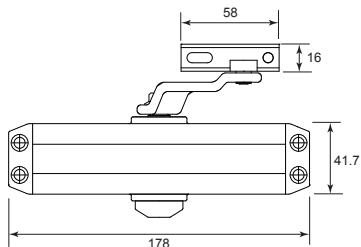


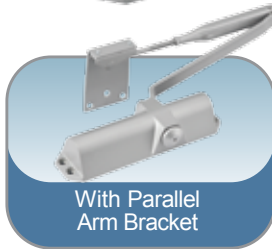
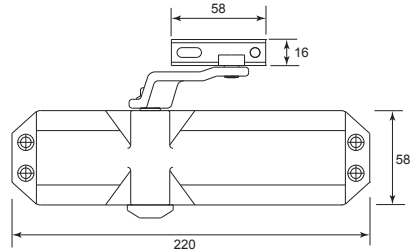
## ATENA 78



### Specifications & Features

Closing Force - Spring Strength (EN)		2 to 4 (By Position)		
Application		Non Handed		
Standard Installation Door Width		850mm to 1100mm		
Maximum Door Weight		80kg		
Arm Type - Standard		Snap On		
Closing Speed Angle		15° - 180° degrees. Adjustable by valve		
Latching Speed Angle		0° - 15° degrees. Adjustable by valve		
Door Opening Angle		180° degrees		
Back Check		Optional / Adjustable		
Slide Arm Option		Optional		
Hold Open by Project Arm		Optional		
Hold Open by Slide Arm		Optional		
Finish		Standard Silver (Oven Process)		
		Optional: White, Dark Brown and Gold		
Dimension	Length	178mm		
	Height	41.7mm		
	Projection	64mm		
Technical Data		EN2	EN3	EN4
Maximum Door Width		850mm	950mm	1100mm
Maximum Door Weight		35kg	60kg	80kg

## ATENA 88



With Parallel Arm Bracket



With Slide Arm & Track



With Hold Open Arm

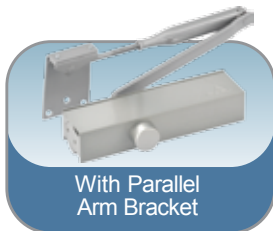
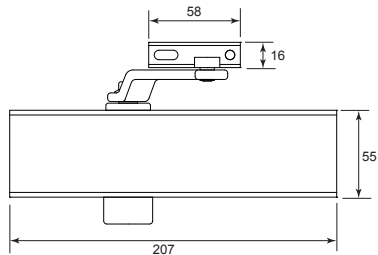
### Specifications & Features

Closing Force - Spring Strength (EN)		2 to 4 (By Position)		
Application		Non Handed		
Standard Installation Door Width		850mm to 1100mm		
Maximum Door Weight		80kg		
Arm Type - Standard		Snap On		
Closing Speed Angle		15° - 180° degrees. Adjustable by valve		
Latching Speed Angle		0° - 15° degrees. Adjustable by valve		
Door Opening Angle		180° degrees		
Back Check		Optional / Adjustable		
Slide Arm Option		Optional		
Hold Open by Project Arm		Optional		
Hold Open by Slide Arm		Optional		
Finish		Standard Silver (Oven Process)		
		Optional: White, Dark Brown and Gold		
Dimension	Length	220mm		
	Height	58mm		
	Projection	42mm		
Technical Data		EN2	EN3	EN4
Maximum Door Width		850mm	950mm	1100mm
Maximum Door Weight		35kg	60kg	80kg

## ATENA 980 Series



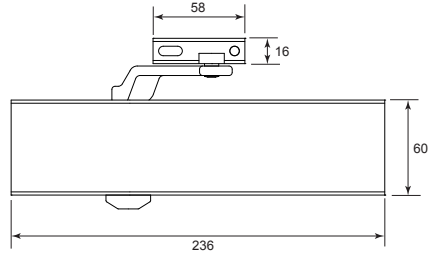
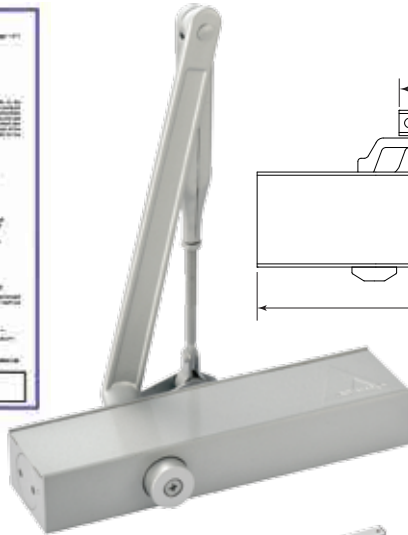
ATENA 983 EN3



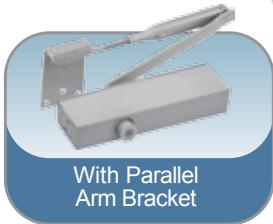
### Specifications & Features

Closing Force - Spring Strength (EN)		Fixed Size from 2 to 4		
Application		Non Handed		
Standard Installation Door Width		850mm to 1100mm		
Maximum Door Weight		80kg		
Arm Type - Standard		Snap On		
Closing Speed Angle		15° - 180° degrees. Adjustable by valve		
Latching Speed Angle		0° - 15° degrees. Adjustable by valve		
Door Opening Angle		180° degrees		
Back Check		Optional / Adjustable		
Slide Arm Option		Optional		
Hold Open by Project Arm		Optional		
Hold Open by Slide Arm		Optional		
Finish		Standard Silver (Oven Process)		
		Optional: White, Dark Brown and Gold		
Dimension	Length	207mm		
	Height	55mm		
	Projection	40mm		
Technical Data		EN2	EN3	EN4
Maximum Door Width		850mm	950mm	1100mm
Maximum Door Weight		35kg	60kg	80kg

# EXPOSED DOOR CLOSER



Without Hold Open Arm



With Parallel Arm Bracket



With Slide Arm & Track



With Hold Open Arm

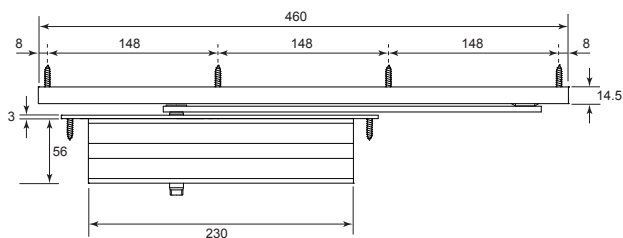
## Specifications & Features

Closing Force - Spring Strength (EN)		Adjustable spring power from 2 to 5			
Application		Non Handed			
Standard Installation Door Width		850mm to 1250mm			
Maximum Door Weight		110kg			
Arm Type - Standard		Forged Snap On			
Closing Speed Angle		15° - 180° degrees. Adjustable by valve			
Latching Speed Angle		0° - 15° degrees. Adjustable by valve			
Door Opening Angle		180° degrees			
Back Check		Adjustable			
Delay Action		Optional - 1 to 40 seconds			
Slide Arm Option		Optional			
Hold Open by Project Arm		Optional			
Hold Open by Slide Arm		Optional			
Finish		Standard Silver (Oven Process)			
		Optional: White, Dark Brown and Gold			
Dimension	Length	236mm			
	Height	60mm			
	Projection	38.5mm			
Technical Data		EN2	EN3	EN4	EN5
Maximum Door Width		850mm	950mm	1100mm	1250mm
Maximum Door Weight		45kg	60kg	80kg	110kg



ATENA 453 EN3

ATENA 454 EN4

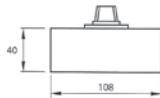
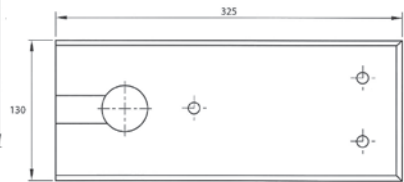
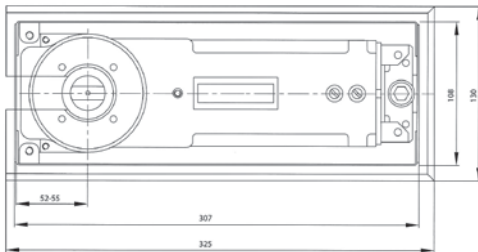
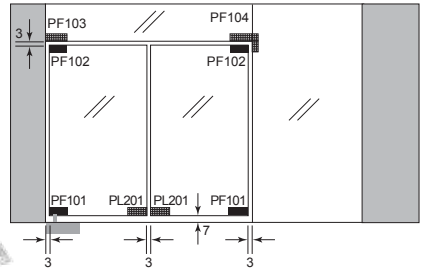


## Specifications & Features

Closing Force - Spring Strength (EN)		Fixed Size from 2 to 4		
Application		Non Handed / Double Action		
Standard Installation Door Width		850mm to 1100mm		
Maximum Door Weight		80kg		
Door Thickness Requirement		Minimum 42mm		
Arm Type - Standard		Slide Arm		
Closing Speed Angle		15° - 105° degrees. Adjustable by valve		
Latching Speed Angle		0° - 15° degrees. Adjustable by valve		
Door Opening Angle		105° degrees		
Back Check		Optional		
Hold Open		Hold Open Range Up to 100° degrees		
Finish		Standard Silver (Oven Process)		
		Optional: SSS, PSS & Custom		
Dimension	Length	230mm		
	Height	56mm		
	Projection	32mm		
Technical Data		EN2	EN3	EN4
Maximum Door Width		850mm	950mm	1100mm
Maximum Door Weight		45kg	60kg	80kg



Recommended clearances for glass door



## Specifications & Features

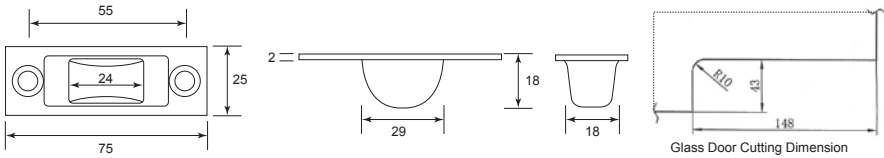
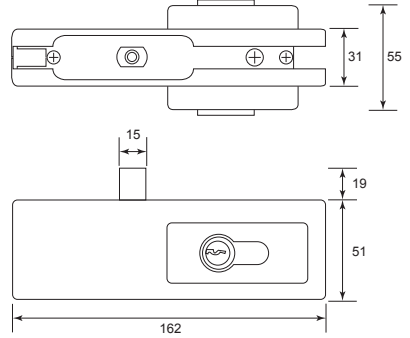
Closing Force - Spring Strength (EN3)		Fixed Size from 2 - 4		
Application		Non Handed		
Standard Installation Door Width		850mm - 1100mm		
Maximum Door Weight		150kg		
Closing Speed Angle		15° - 130° degrees. Adjustable by valve		
Latching Speed Angle		0° - 15° degrees. Adjustable by valve		
Door Opening Angle		130° degrees		
Back Check		Optional		
Hold Open		90°		
Dimension	Length	307mm		
	Height	40mm		
	Width	108mm		
Technical Data		EN2	EN3	EN4
Maximum Door Width		850mm	950mm	1100mm
Maximum Door Weight		70kg	105kg	150kg

## Bottom Patch Lock



### Specifications & Features

- For glass thickness 10 - 12mm
- Suitable for left & right hand door
- For Profile Cylinder
- Finish : Polished stainless steel

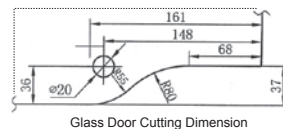
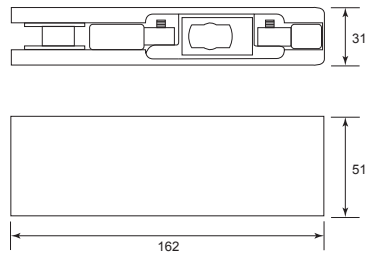


## Bottom Patch Fittings

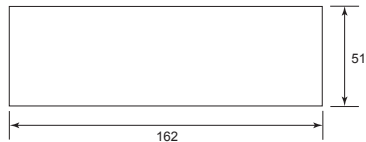
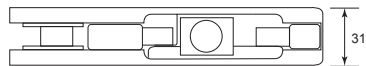


### Specifications & Features

- For glass thickness 10 - 12mm
- Suitable for left & right hand door
- For double action door
- Finish : Polished stainless steel

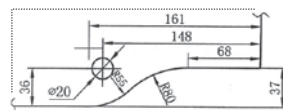


## Patch Fittings



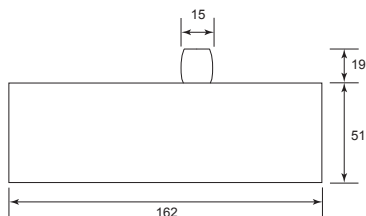
### Specifications & Features

- For glass thickness 10 - 12mm
- Suitable for left & right hand door
- Finish : Polished stainless steel



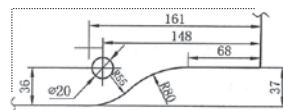
Glass Door Cutting Dimension

## Top Pivot Patch Fitting



### Specifications & Features

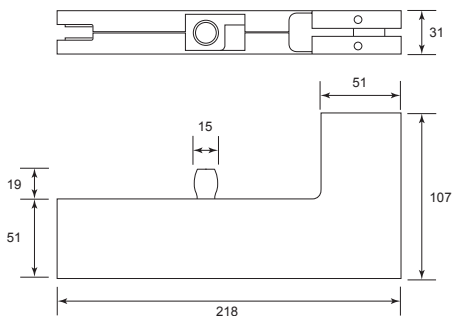
- For glass thickness 10 - 12mm
- Suitable for left & right hand door
- Finish : Polished stainless steel



Glass Door Cutting Dimension

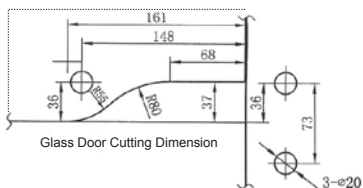


## Top Pivot Corner Patch Fitting

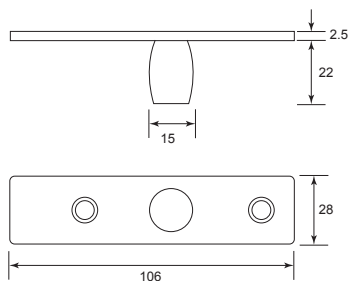


### Specifications & Features

- For glass thickness 10 - 12mm
- Suitable for left & right hand door
- Finish : Polished stainless steel



## Top Pivot Plate

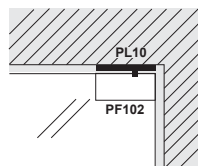
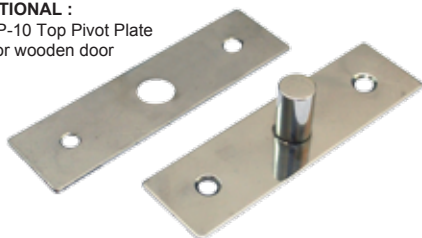


### Specifications & Features

- Counter bearing for top patch fitting
- Suitable for left and right hand door

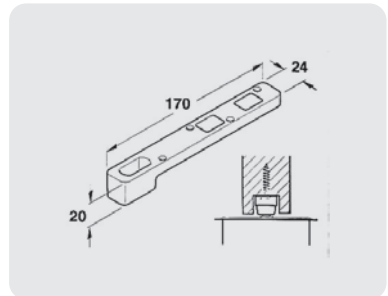
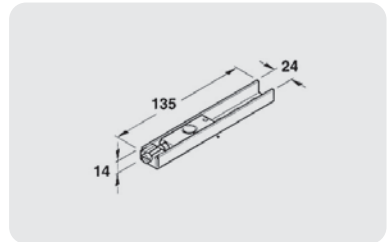
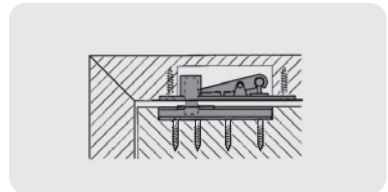
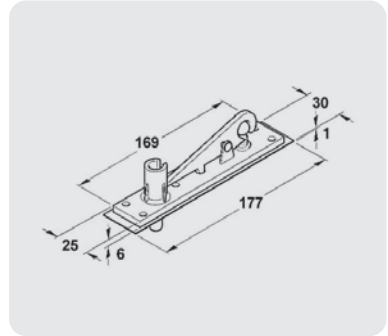
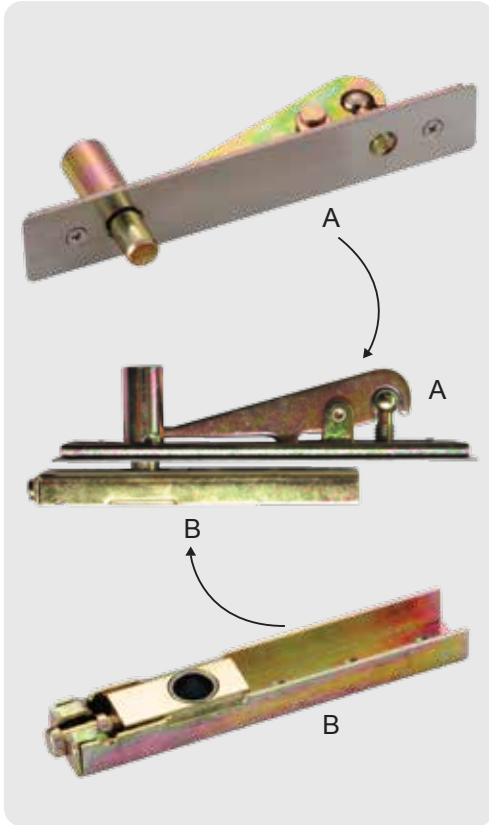
### OPTIONAL :

- TPP-10 Top Pivot Plate
- For wooden door



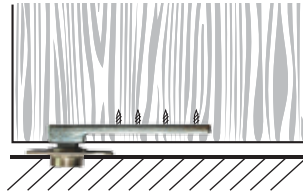
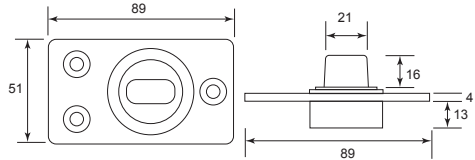
## Top Pivot & Bottom Strap

Installation method



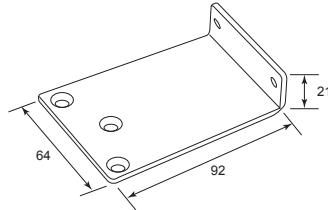
## Bottom Pivot Bearing

- Maximum door leaf weight: 150kg
- D Type Spindle
- Finish: Satin Stainless Steel



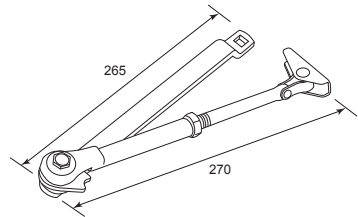
## Parallel Arm Bracket

- Standard Finish: Silver Enamelled
- Optional Finish: SSS, PSS, Bronze & Brass



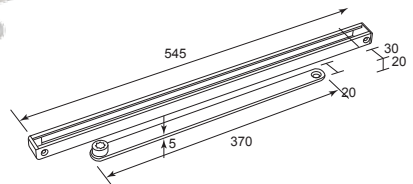
## Hold Open Arm

- Adjustable arm for exposed closer.
- Standard Finish: Silver Enamelled
- Optional Finish: SSS, PSS, Bronze & Brass



## Slide Arm & Track

- Adjustable arm for exposed closer.
- Standard Finish: Silver Enamelled
- Optional Finish: SSS, PSS, Bronze & Brass



Finish: PSS (Polished Stainless Steel), SSS (Satin Stainless Steel)