

# Rencol

COMPONENTS

*INDUSTRIAL MANUFACTURING SINCE 1923*



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INDUSTRIAL MANUFACTURING  
SINCE 1923

*Rencol's flexible manufacturing capabilities, engineering expertise, global supply chain and market knowledge allow us to develop cost-effective product solutions that exceed our customers' expectations.*

## Who we are

In the early twentieth century Rencol developed engineered plastic solutions ranging from electric car batteries and recharging stations to the plastic "Joylight" internal combustion engine.

By the 1970s our focus on components had emerged and the Rencol name became synonymous with high quality plastic knobs, handles and handwheels.

### Today, we continue to grow, adapt and innovate:

- Our product range is extensive, industry-standard and growing.
- Our manufacturing partners are in key international locations, each chosen for their expertise, compatibility with our values and cost effectiveness.
- Our distribution network is worldwide and expanding.
- Our global supply chain has been in successful continuous operation for over a decade.

## We are here to help

Exceptional customer service is central to our company philosophy. Our customer service team, on-site engineers, product designers and supply chain experts are here to advise and assist at all stages of the purchase and fulfilment process.

### Call or email to:

- Check price and availability
- Make technical queries and request product advice
- Request samples
- Place and progress your order
- Request CAD drawings

### Visit our website to:

- Request a quotation
- View product specifications and MOQs
- Find your local distributor
- Request CAD drawings
- Request a catalogue

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**Website:** [www.rencol.com](http://www.rencol.com)

### Office opening hours:

Monday to Friday

8.30 AM to 5.00 PM (GMT)



*Nick Dowden, 30 years with Rencol.  
Customer Service Manager*

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## Technical Specifications & Key

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## Model 05 IP Spring Loaded Ring Pull Plunger

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## Model 06 IP Threaded Ball and Spring Plunger

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## Model 07 IP All Metal Body Index Plunger

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## Model 08 IP Spring Loaded Retractable Index Plunger

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## Modifications & Custom Components

Custom colours, threads, materials, sizes, finishes, etc.

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# Technical Specifications & Key

## Thermoplastic

Material: Nylon 6 + Polypropylene (PP)  
Working temperatures: Nylon up to 130°C peak and 80°C continuous use. Polypropylene maximum 70°C.  
Resistant to: alcohols, esters, aromatic hydrocarbons, dilute alkalis, ketones, oils, fuels, grease, fats, weatherability (including UV light - excludes coloured Nylon) and salt water.  
With PP also avoid halogenated hydrocarbons and flammable materials (can hold static charge).

## Reinforced Thermoplastic

Material: Nylon 6 glass filled  
Working temperature: up to 180°C peak, 110°C continuous use.  
Resistant to: alcohols, esters, aromatic hydrocarbons, dilute alkalis, ketones, oils, fuels, grease, fats, weatherability (including UV light) and salt water.

## Duroplast

Material: Phenolic Based Duroplast (PF)  
Working temperature: -30°C to 160°C  
Resistant to: diluted mineral acids, alcohols, chlorinated hydrocarbons, aromatic hydrocarbons, detergents, grease, oils, weatherability (including UV light). Avoid high pressure or high impact loads (can shatter).

## Soft-Touch Mouldings

Material: Polypropylene substrate, TPE over-mould. Rencol has standard parts already available in this design, used particularly extensively in both industrial and special needs market products.

## Brass

Material: BS2874 CZ121. Especially recommended for any materials likely to have continued exposure to temperatures below -30°C, where most steel grades become brittle. Also used as a marine grade material when nickel plated.

## Zinc Plated Steel

Material: EN1A leaded-bright zinc passivated.

## Stainless Steel

Material: Standard grade is 304. For medical, catering or marine use recommended grade is 316 - has high chloride resistance.

## Aluminium

Grades are 6061 and A380. Others available on request.

## Colours

Colour options include black, red, yellow, green, blue, white and grey. Other colours are available on request. If you would like to see the colours before ordering, samples can be provided free of charge.








## Thread Depths

Wherever possible thread depths are a minimum of 1.5 x the diameter of the thread.

## Tolerances

In general, our products are produced to the following tolerances:  
Bore sizes:  $\pm 0.1\text{mm}$  (0.004in)  
Outside dimensions:  $\pm 0.5\text{mm}$  (0.020in)  
Male thread length:  $\pm 1\text{mm}$  (0.040in)

## Key

-  **Colour options** - RAL colours on request.
-  **Heavy duty** - Particularly hard wearing item.
-  **Stainless steel** - Partly or totally stainless steel.
-  **Fixing from above**
-  **Fixing from below**
-  **Multi component build** - Assembly available.
-  **Soft touch** - TPE over mould. Oil resistant.



Rencol Components is **ISO 9001:2008 Certified**  
Our components are **REACH & RoHS Compliant**

**Knob material**

High impact resistant thermoplastic

**Knob finish**

Matt

**Body material**

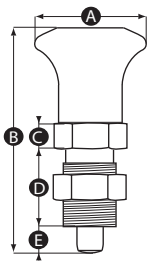
Blackened steel

**Standard colour**

Black knob

**Options**

Available with or without a 90° locking rest position.



Part No.	A	B	C	D	E	Thread size	Plunger diameter (mm)	Rest position
12542S	21	45	5	17	5	M10x1.0	5	No
12672P	21	51	5	17	5	M10x1.0	5	No
11831Y	25	45	5	10	6	M12x1.5	6	No
12673W	25	61	6	20	6	M12x1.5	6	No
11833Q	31	54	6	12	8	M16x1.5	8	No
12674S	31	76	8	26	7	M16x1.5	8	No
11832U	25	45	5	10	6	M12x1.5	6	Yes
11834X	31	54	6	12	8	M16x1.5	8	Yes

SS

**Knob material**

High impact resistant thermoplastic

**Knob finish**

Matt

**Body material**

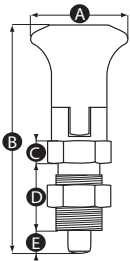
Blackened steel or stainless steel

**Standard colour**

Black knob

**Options**

Comes as standard with 90° locking rest position in plunger body.



Part No.	A	B	C	D	E	Thread size	Plunger diameter (mm)	Body material
11817Z	21	51	5	17	5	M10x1.0	5	Blackened steel
11821U	25	61	6	20	6	M12x1.5	6	Blackened steel
11825P	31	76	8	26	7	M16x1.5	8	Blackened steel
11818V	21	51	5	17	5	M10x1.0	5	Stainless steel
11822Q	25	61	6	20	6	M12x1.5	6	Stainless steel
11826W	31	76	8	26	7	M16x1.5	8	Stainless steel

**Knob material**

High impact resistant thermoplastic

**Knob finish**

Matt

**Fixing plate material**

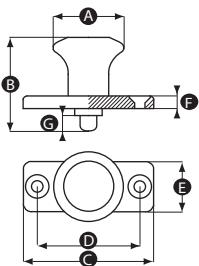
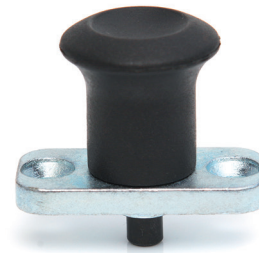
Zinc plated diecast steel

**Standard colour**

Black knob

**Options**

Available with or without a 90° rest position.



Part No.	A	B	C	D	E	F	G	Plunger diameter (mm)	Rest position
11819R	25	37	40	30	18	5	6	6	No
11823X	31	44	46	34	20	6	8	8	No
11820Y	25	37	40	30	18	5	6	6	Yes
11824T	31	44	46	34	20	6	8	8	Yes

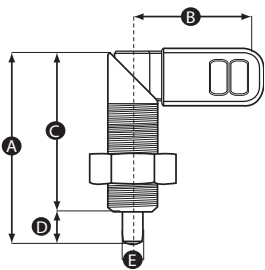
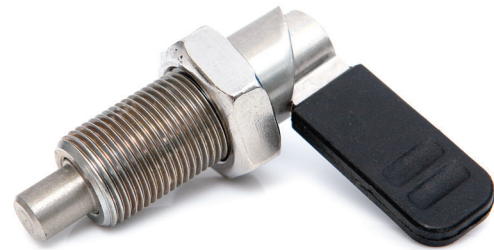
SS HD

**Body material**

Blackened steel or stainless steel

**Includes**

Comes as standard with locking nut. Stainless steel body comes complete with black plastic cap, burnished steel without cap.



Part No.	A	B	C	D	E	Thread size	Plunger diameter (mm)	Body material	Includes cap
15714R	47	32	39	8	8	M12x1.5	8	Blackened steel	Yes
11788U	69	37	36	12	8	M20x1.5	8	Blackened steel	Yes
11786R	69	37	36	12	10	M20x1.5	10	Blackened steel	Yes
11787Y	69	37	36	12	12	M20x1.5	12	Blackened steel	Yes
11794S	69	52	36	12	8	M20x1.5	8	Stainless steel	No
11795Z	69	52	36	12	10	M20x1.5	10	Stainless steel	No
11796V	69	52	36	12	12	M20x1.5	12	Stainless steel	No



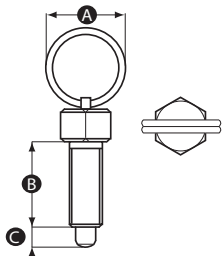
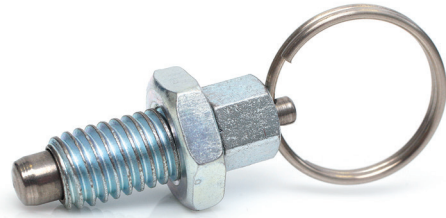
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**Material**

Zinc plated housing with stainless steel pin

**Includes**

Comes as standard with lift ring and locking nut.



Part No.	A	B	C	Thread size	Plunger diameter (mm)
11827S	14	12	4	M6	4
11828Z	18	16	5	M8	5
11829V	24	20	6	M10	6
11830R	30	24	8	M12	8

SS

**Body material**

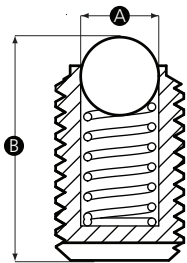
Blackened steel or stainless steel

**Ball material**

Bearing steel or stainless steel

**Spring material**

Spring steel or stainless steel



Part No.	A	B	Thread size	Body material	Ball material	Spring material
12681X	1.5	8	M3	Blackened steel	Bearing steel	Spring steel
12682T	2.5	10	M4	Blackened steel	Bearing steel	Spring steel
12683P	3	13	M5	Blackened steel	Bearing steel	Spring steel
12684W	3.5	15	M6	Blackened steel	Bearing steel	Spring steel
12685S	5	18	M8	Blackened steel	Bearing steel	Spring steel
12686Z	6	21	M10	Blackened steel	Bearing steel	Spring steel
12687V	8	25	M12	Blackened steel	Bearing steel	Spring steel
12688R	10	28	M16	Blackened steel	Bearing steel	Spring steel
12689Y	12	35	M20	Blackened steel	Bearing steel	Spring steel
12690U	1.5	8	M3	Stainless Steel	Stainless steel	Stainless Steel
12691Q	2.5	10	M4	Stainless Steel	Stainless steel	Stainless Steel
12692X	3	13	M5	Stainless Steel	Stainless steel	Stainless Steel
12693T	3.5	15	M6	Stainless Steel	Stainless steel	Stainless Steel
12694P	5	18	M8	Stainless Steel	Stainless steel	Stainless Steel
12695W	6	21	M10	Stainless Steel	Stainless steel	Stainless Steel
12696S	8	25	M12	Stainless Steel	Stainless steel	Stainless Steel
12697Z	10	28	M16	Stainless Steel	Stainless steel	Stainless Steel
12698V	12	35	M20	Stainless Steel	Stainless steel	Stainless Steel

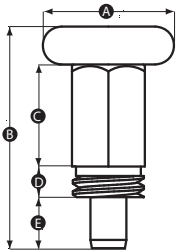
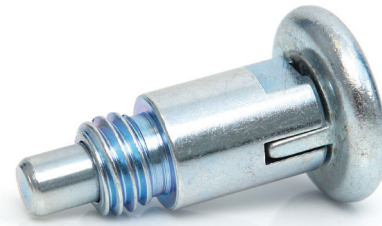
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**Material**

Zinc plated or stainless steel body, pin and spring. Zinc plated diecast head.

**Note**

M12 options do not have hexagonal body as per image - M12 options have 12mm A/F flats to accept 12mm spanner size.



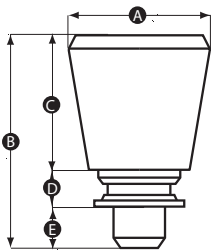
Part No.	A	B	C	D	E	Thread size	Plunger diameter (mm)	Body material	Rest position
15216S	18	30	14	6	7	M10x1.0	6	Zinc plated steel	No
15215W	18	30	14	6	7	M10x1.0	6	Zinc plated steel	Yes
15214P	24	39	19	8	7	M12x1.75	7	Zinc plated steel	No
15213T	24	39	19	8	7	M12x1.75	7	Zinc plated steel	Yes
15217Z	18	30	14	6	7	M10x1.0	6	Stainless steel	No
15218V	18	30	14	6	7	M10x1.0	6	Stainless steel	Yes

**Material**

Aluminium body, steel shell (flange), steel plunger pin and steel spring

**Finish**

Bright chrome or black powder coated



Part No.	A	B	C	D	E	Thread size	Plunger diameter (mm)	Body material	Rest position
15697T	14	20	12	2	7	M8	4.7	Aluminium	Yes
15698P	14	20	12	2	7	M8	4.7	Black powder coated aluminium	Yes
15222Q	17	26	17	2	8	M10	6.2	Aluminium	Yes
15223X	17	26	17	2	8	M10	6.2	Black powder coated aluminium	Yes



A large grid of graph paper for taking notes, consisting of approximately 30 columns and 40 rows of small squares.

## Modifications & Custom Components

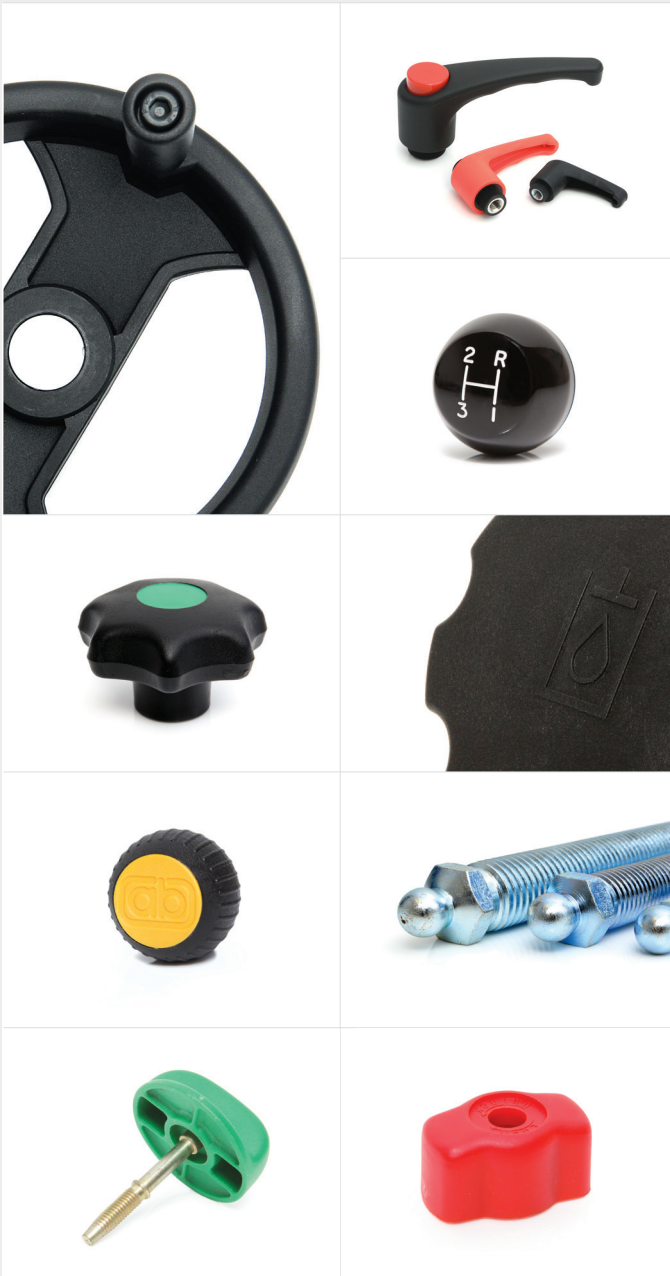
Diverse manufacturing capabilities and experienced on-site technical personnel allows Rencol Components to offer a wide range of product modifications and custom product solutions. We regularly adapt standard components or manufacture custom products to suit our customers' specific requirements. New tooling can be produced quickly and cost effectively with a typical MOQ of just 500 pieces.

### Manufacturing Processes

Plastic & Metal Injection Moulding / Die casting / Machining / Forging / Stamping / Rapid Prototyping / 3D Printing

### Modifications & Custom Options

Thread size & length / RAL Colours / Engraving / Pad-Printing & Screen-Printing / TPE Over mould / Materials / Finishes / Logos





## **Rencol** COMPONENTS

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