



Buyer's Guide

A QUICK GUIDE TO CAPS AND PLUGS



CAPS AND PLUGS SOLUTIONS

Whether you need to protect your products from damage and contamination or mask holes in the painting process, caps and plugs are essential to ensuring your parts remain safe and functional.

When it comes to caps and plugs, application process and material choice are key. For example, if an application needs a solution that provides thread protection, [round vinyl end caps](#) are a great choice. Vinyl will not tear, split or shred when applied or removed. If you need to protect the thread on studs for your automotive or engineering application, [flange protection caps](#) work well. For protection against damage, dirt, moisture and corrosion during shipping or storage, try our [standard tapered caps & plugs](#), which work great.

This guide is designed to give buyers an introduction. For expert advice, we're always happy to help. We can also help with [free samples](#) and [CADs](#). You'll like our flexibility too. Small orders are no problem. And whatever you need, you can depend on fast dispatch.

GETTING STARTED: CHOOSING THE RIGHT CAP OR PLUG

What do you want from your cap or plug? The answers to these questions can start you in the right direction.



TAPERED ROUND PLUGS WITH FLANGE

[View online](#)



Protects against contamination during transportation and storage.

Fit multiple profiles with fast hand applications.



USB DUST COVER

[View online](#)



Protects unused connector ports on electrical components.

Choose PVC or silicone for your material.



I USE TOOL-BASED PROCESSES

THREADED O-RING PLUGS

[View online](#)



Can be applied or removed by wrench, socket, screwdriver or torque gun.

Go for a cross head or custom cap or plug.

I NEED TO PROTECT AGAINST LIQUIDS OR CONTAIN LIQUIDS

THREADED O-RING PLUG - UNF THREADS

[View online](#)



Especially popular for hydraulic-fitting applications.

Opt for an O-ring.

I'M PROTECTING AN NPT THREADED HOLE

THREADED PROTECTION PLUGS FOR NPT THREADS

[View online](#)



Protects from contamination and moisture during production and shipment.

Select a threaded plug.

I NEED FAST REMOVAL

SIDE PULL PLUGS

[View online](#)



Side pull tab for quick removal.

Use caps and plugs with pull tabs or flanges.





NOW LET'S LOOK AT SOME EXAMPLES OF CAPS AND PLUGS

PUSH FIT CAPS AND PLUGS

Maintain quality and ensure smooth assembly and transit by protecting critical internal and external profiles from damage.

FEATURES:

- Many styles available including [Tapered](#), [Easy Removal](#), [Quick-Fit](#), [Flexible](#) and [Pull-Tab](#).

MATERIAL:

- Material options include [LDPE](#), Vinyl (PVC), [TPR](#), [TPE](#), and EVA suitable for different applications

SPECIFICATION:

- A diverse range of dimensions helping to protect non-threaded or threaded applications

[TAPERED CAP AND TAPERED PLUG](#)

[View online](#)

- Plugs multiple inner diameters
- Caps multiple outside diameters
- Tapered caps and plugs made of Low Density Polyethylene (LDPE), a rigid, yet soft material



[PULL TAB CAPS](#)

[View online](#)

- Large pull tab for easy removal
- Available in PVC for flexibility and airtight seal
- Available in Ethylene Vinyl Acetate (EVA) for tensile strength, toughness and flexibility



[QUICK FIT THREADED PROTECTION PLUGS](#)

[View online](#)

- Set of blades lock tight when pushed into a threaded hole and twisted
- Each plug covers a range of different thread sizes and styles
- Easy removal by simply unscrewing the plug from the thread



[FLEXIBLE END CAP - ACID RESISTANCE](#)

[View online](#)

- Available in TPE and TPR
- Flexible material can stretch onto larger diameters for a snug fit
- Good resistance to acids
- Hanging tab to work with [round wire hooks](#) and other support [wire hooks](#)



[QUICK FIT THREADED PROTECTION PLUG WITH EASY PULL-TAB](#)

[View online](#)

- Patented Quick Fit design easily locks the plug into place with a simple push
- Strong and flexible pull-tab for quick removal
- Seven sizes in two styles protect more than 25 popular thread sizes
- Made of Low Density Polyethylene (LDPE), a rigid, yet soft material





MASKING CAPS, PLUGS AND TAPES

Help increase customer satisfaction with a professional finish by masking and protecting important areas with easy-to-fit caps and plugs.

FEATURES:

- Choose from [Tapered](#), [Flangeless](#), [Pull Plugs](#), [Flexible](#), [Stretch Fit](#) and [Easy-Pull Caps](#)

MATERIAL:

- Material options include [TPR](#), [EPDM](#), Vinyl (PVC), [Silicone](#), [Polyimide Tape](#) and [Fiberglass Cloth Tape](#)

SPECIFICATION:

- What is your applications maximum temperature requirements? Our solutions perform in temperatures up to 600°F (315°C)

Check out the material guide at www.essentracomponents.com/en-us/news/guides/masking-materials-selection-guide

HIGH-TEMPERATURE SILICONE TAPERED PLUGS

[View online](#)



- Available as a solid plug or with a hollow core to aid in compression and reduce cost due to less material used
- Excellent chemical resistance
- Reusable
- Also available in EPDM

MASKING FLANGELESS PLUGS

[View online](#)



- Masks holes without masking surrounding areas
- Protects multiple diameters
- Masking pull plug with tab for easy installation and removal
- Available in TPR and EPDM

MASKING PULL PLUGS

[View online](#)



- Masks holes without masking surrounding areas
- Protects multiple diameters
- Masking pull plug with tab for easy installation and removal
- Available in TPR and EPDM

FLEXIBLE END CAP

[View online](#)



- Suitable for a multitude of applications
- Flexible to ensure a tight fitting
- High-temperature PVC

MASKING TAPE – POLYIMIDE

[View online](#)



- Highly conformable
- Excellent heat and solvent resistance

MASKING TAPE – FIBERGLASS CLOTH

[View online](#)



- Easy to remove without fraying
- Excellent for masking irregular shapes and corners



THREADED CAPS AND PLUGS

In applications where precision is everything, you can protect your vital threads from contamination and damage during manufacture and shipping.

FEATURES:

- Choose from [Threaded Sealing, Protection Caps, Snap-Fit](#) and [O-Ring Plugs](#)

MATERIAL:

- Common choices include HDPE, LDPE, polypropylene (PP) and nylon. LDPE gives a degree of flexibility, while PP resists chemicals. HDPE and nylon are desirable for their durability

ADAPTABILITY:

- Depending on the application process or cap and plug styles, there are options for hand or tool operated solutions

SPECIFICATION:

- Available in UNF, Metric, SAE, NPT, JIC and BSP thread styles

THREADED O-RING PLUG - UNF THREADS

[View online](#)



- Can be applied or removed by hand, hex wrench or screwdriver
- Compressing flange lip and O-Ring provide water-tight seal for superior leakage protection
- Available in a variety of threads
- Available in polypropylene (PP), HDPE and nylon

THREADED PROTECTION CAPS

[View online](#)



- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy-to-grip head for ease of hand installation

THREADED SEALING CAPS - UNF THREADS

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- Protects and limits fluid leakage
- HDPE material resistant to solvents and reduces potential shearing
- Hexagonal head can be tightened by a wrench or socket at low torque, but hand tightening recommended

SNAP FIT PLUGS

[View online](#)



- Center tab allows for a strong grip for easy tightening and removal
- Suitable as a metric threaded cap, and for BSP and UNF threads
- Made of Low Density Polyethylene (LDPE) to protect from damage





PIPE AND FLANGE PROTECTION CAPS AND PLUGS

Transportation and handling can damage and contaminate pipes. Eliminate the risks you face with quality protection, giving you the reassurance you need to get on with the job.

FEATURES:

- Protects threaded or non-threaded pipe ends from damage or contamination

MATERIAL:

- Polyethylene, including low density polyethylene (LDPE), is a low cost but durable material that allows easy assembly and removal

SPECIFICATION:

- Standard sizes will protect ANSI, API and DIN pipe ends

RIBBED PIPE-END PLUGS

[View online](#)



- Secure friction fit with mating pipe's I.D.
- Excellent protection against contaminants
- Made of Low Density Polyethylene (LDPE), a rigid, yet soft material

STANDARD SIZE PIPE END CAP

[View online](#)



- Made of flexible, yet rigid, LDPE
- Internal ribs ensure tight fit and release after pressure build up
- Also available with [Vent Hole](#)

PUSH-IN FULL FACE FLANGE PROTECTORS

[View online](#)



- Flexible fins for snug fit
- Fasteners not required
- DN 10-300, ANSI 1/2in-12in

ADHESIVE FULL FACE FLANGE PROTECTORS

[View online](#)



- Tight bond
- Peel and stick design
- Leaves no residue





HYDRAULIC CAPS AND PLUGS

Protecting your hydraulic fittings can require specialist caps and plugs. Mitigate fitting damage and maintain thread protection with our wide range of hydraulic solutions.

SPECIFICATION:

- Many styles available such as [Side Pull Plugs](#), [Easy Removal Hexagonal Caps](#), [Threaded](#) and [Quick Release Plugs](#)

MATERIAL:

- LDPE and TPE are two examples of materials used in hydraulics protection. Both are strong and durable, yet provide a degree of flexibility. HDPE and nylon are also used for their strength, while polypropylene is especially good at resisting chemicals

ADAPTABILITY:

- No matter the protection level needed, you can choose from push-In styles for light protection against dust, or threaded sealing solutions for a more robust sealing protection

HEXAGONAL CAPS

[View online](#)



- Rigid design allows easy application and removal
- Available in all common hydraulic coupling sizes
- Also suitable for protecting round components

QUICK RELEASE PLUGS

[View online](#)



- Designed to remain attached to hose
- Made of TPE for excellent flexural fatigue resistance and high-impact strength

THREADED PROTECTION PLUGS

[View online](#)



- Knurled head for an ergonomic grip
- Excellent protection from dirt, moisture and corrosion

DOWNLOAD FREE CADS AND TRY BEFORE YOU BUY

Free CADs are available for most solutions, which you can download for free. You can also request free samples to ensure the solutions you've chosen are exactly what you need. If you're not quite sure which product will work best for your application, our experts are always happy to advise you.

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