COVER, PROTECT, GO: A QUICK GUIDE TO PIPE & FLANGE PROTECTION
FULL FACE FLANGE PROTECTORS

Keep your flanges in top condition for a perfect fit while guarding against corrosion and dirt ingress during transport around the factory and ship yards.

**FEATURES:**
- Protects the entire surface of the flange or leave bolts/bolt holes free to access.
- Available in five key profiles: Studded, Plug, Adhesive, Push-In and Bolt Hole.

**MATERIAL:**
- PE protects during finishing, storage and transit. Bolt hole flange protectors’ PP material is cost-effective and offers good chemical and fatigue resistance.

**SPECIFICATION:**
- Supports DIN flanges from DN 10 – DN 600 and ANSI flanges from ½” to 32”.

RAISED FACE FLANGE PROTECTORS

The raised machine face on your flange is the critical area that needs protection – but you can ensure you maintain optimum condition and prevent leakage in storage or before installation.

**FEATURES:**
- Available in four key profiles: Studded, Plug, Adhesive and Push-In. All are quick and easy to install and stand up to sand blasting.

**MATERIAL:**
- Durable, PE is ozone, weather and petroleum resistant. Withstands temperatures up to 100°C.

**SPECIFICATION:**
- Protects DIN and ANSI flanges. Solutions available in DN 15 – DN 600 nominal pipe sizes.

PIPE PLUGS

Prevent costly downtime by preventing debris from entering the pipe and damaging vital threads.

**FEATURES:**
- Ribbed pipe plugs are available in two styles with flexible ribs of different diameters to fit multiple schedules of NPT and drill pipe.

**MATERIAL:**
- Tough LDPE offers weather and chemical resistance.

**SPECIFICATION:**
- The straight wall on the plug’s Outside Diameter provides a secure friction fit with the mating pipe’s Inside Diameter for excellent protection against contaminants. Compatible nominal pipe diameters range from 7.5mm–114.3mm.
PIPE CAPS

Minimise the threat of rust and pollution to the pipe’s contents by preventing the entry of contaminants and foreign objects.

FEATURES:
• Flexible pipe caps offer tight fit while recessed caps protect coatings, bevels and internal walls from damage during clamping by crane hooks.

MATERIAL:
• Flexible pipe caps made of PE material are strong, durable and lightweight. Recessed pipe caps are made of LDPE for excellent chemical resistance to acids, alcohols, bases and esters.

SPECIFICATION:
• Flexible pipe caps fit nominal pipe diameters, ranging from 20mm–1455mm. Recessed Caps are compatible with nominal pipe diameters that range from 152.4mm–406.4mm.

FLANGE COVERS

Perfect for protecting internally-coated flanges, giving easy to fit, all round flange protection.

FEATURES:
• Suitable for all flange face types due to a durable and flexible nature. Also provides protection of bolt holes.

MATERIAL:
• Available in flexible yellow Polyethylene.

SPECIFICATION:
• Covers ANSI B 16.5, DIN 2631-2635 and BS4505.

GLOSSARY OF PIPE AND FLANGE TERMS

To help you, we’ve put together some of the most commonly used terms and abbreviations you’re likely to hear regarding pipes and flanges.

ANSI: American National Standards. The organization which sets the specifications for standard pipe

ASME: American Society of Mechanical Engineers. ASME refers to their standards

BEARING LOAD: A compressive load supported by a member, usually a tube or collar, along a line where contact is made with a pin, rivet, axle or shaft

BEVEL: The angle formed between the prepared edge of the end of the pipe and a plane perpendicular to the surface. The bevel used for standard line pipe is 30°

BEVELLED END: Pipe with its ends cut at an angle to facilitate the weld joint used to join separate lengths of pipe

BUSHING: A pipe fitting, threaded on both the inside and outside, used for joining pipes with different diameters

DIN: Deutsches Institut für Normung. In English: the German Institute for Standardisation, which holds its own standards

DN: The metric equivalent of Nominal Pipe Size (NPS), conforming to the International Standards Organisation (ISO)

FITTING: Any device used for connecting elements in fluid lines, including elbows, unions and flanges

ID: Inside diameter

IPS: Iron Pipe Size

KSI: K equals 1,000, thus the term is actually K (1,000) psi. The P has been dropped, and KSI is the new term (i.e. 50 KSI = 50,000 psi)

LGTH: Length or joint of pipe

MPT: Male pipe threads

NPT: National Pipe Thread, an American standard thread

OD: Outside Diameter

RUN: That portion of a fitting that goes in a straight line in the direction of the flow of the pieces of pipe to which it is connected

TAPER: A gradual change in the outside diameter of threads on pipe where the diameter at the ends of the pipe is the least

TOLERANCE(S): Permissible variations or deviation from a dimension

UNION: A fitting with three parts, two threaded ends with a nut between them, used to join two pieces of pipe such that they may be easily disconnected

WALL THICKNESS: A given size and schedule of the thickness of the pipe, which is fixed and defined in the ASME standard

Y: A fitting that joins three sections of pipe sometimes called WYE

QUESTIONS? Speak to one of our experts for further information on the ideal solution for your application – 0845 758 5070
Even more choice online

Visit us online to discover our full range of solutions – essentracomponents.com

For more advice about pipe and flange protection, please call us on 0845 758 5070 or email sales@essentracomponents.co.uk

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