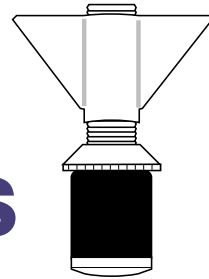


HFT Pipestoppers® Aluminium Pipe Plugs



HFT PIPESTOPPERS®

Leak Test and Isolation Plugs



THE ALUMINIUM RANGE

Huntingdon Fusion Techniques HFT® manufacture a large range of hand tightened **Aluminium Test Plugs** with a central waterway / vent / bypass.

They are manufactured with ½", 1" and 2" BSP outlets / bypass diameters as shown in the chart on page 3 overleaf.

The standard seals are made from natural rubber and special rubber seals are available for applications where greater resistance to chemicals and / or temperatures is required.

All plugs conform to British Standards BS 8005 for low pressure testing and sealing of pipes. They are simple to install and to work with. The wing nut easily expands the rubber seal using our friction free washer system. The cast aluminum plates of the HFT® range of **Expansion Plugs** make them strong and durable **Aluminium Plugs** that will not rust or seize up.

APPLICATIONS

Aluminium Pipe Plugs are suitable for low pressure testing or temporary closure and have traditionally been used for basic low pressure air or water testing of sewer or water pipes, maintenance in ground works and they are increasingly used for applications in the offshore industry.

TOPSIDE APPLICATIONS IN THE OFFSHORE INDUSTRY INCLUDE:

- Temporary sealing gas of fuel pipes during hot work.
- General maintenance.
- Diving contractors finding subsea uses.

These combine with the traditional uses for domestic and industrial plumbing operations in blocking off water and drainage systems and testing during emergency problems or maintenance.

They are also used for ducting and conduits, swimming pools, masking in painting and casting industries, for leak testing, isolation, sealing, stopping and purging pipework.

When transporting large vessels and tanks, such as heat exchangers, fractionation columns, shells for other petrochemical applications etc., **Aluminium Plugs** are used for sealing stubs and entries for interconnecting pipework so that the vessels can be sealed, with inert gas inside if necessary, to prevent oxidation or contamination during transportation.

In particular **Aluminium Test Plugs** are suitable for arduous duties such as immersion in chemicals and use at higher temperatures.

For more complex applications, chemical and higher temperature resistant seals are available.

HFT PIPESTOPPERS®



MECHANICAL PLUG WARNING

We do not specify a pressure rating on the **Aluminium Pipe Plugs**. As the plug is expanded out there is less seal contacting the wall and thus these plugs have lower back pressure capabilities. Use for very low pressure test or temporary closure only.

Note: the effectiveness of HFT® **Expansion Plugs** varies at higher limits of expansion. HFT® can help you by supplying the proper sizes for your requirements.



SPECIFICATION / TECHNICAL INFORMATION

HFT® **Aluminium Pipe Plugs** are fitted as standard with natural rubber seals which are ideal for temporarily sealing all types of pipe with diameters from 1.5" to 36".

They are up to 70% lighter than similar HFT® **Steel Plugs** and are negatively buoyant so there is no problem using them for subsea applications.

Being solid, there is little concern about the rise and fall of the tides having an effect.

Once in position the Plugs are simply tightened by hand with no requirement for inflation equipment.

They will withstand back pressure up to 0.5 bar maximum with bracing although this varies from the smallest to largest sizes.

The aluminium plates have strength with low weight. The centre stem, or bypass, is made from galvanised carbon steel and is cast into the plate during manufacturing. The stems are generally ½", 1" or 2" diameter, dependant upon size. They are threaded externally with a BSP thread. Each plug is fitted with a removable sealing cap, which has a rubber sealing disc inside.

A wing nut is fitted to the threaded stem, with an HFT® designed special slip washer underneath for easy tightening, for all plug sizes available.

The **Aluminium Pipe Plugs** are widely used for basic air testing and general sealing of pipes.

Our **Aluminium Pipe** stoppers are robust, relatively lightweight and easy to use, if maintained appropriately then they can be re-used indefinitely.



The rubber sealing ring is held captive by the specially designed lip in the aluminium plates. As the wing nut is tightened the rubber ring expands uniformly to seal against the wall of the pipe or orifice into which the plug has been inserted.

Aluminium Pipe Plugs are generally kept in stock and are available for immediate delivery.



TECHNICAL INFORMATION ALUMINIUM PIPE PLUGS

Nominal Size		Expanded Diameter		Relaxed Diameter		Centre stem (by pass) threadsize	Shipping weight
Inches	mm	Inches	mm	Inches	mm	BSP (inch)	LBS
1.5	38	1.889	48	1.456	37	0.5	1
2	51	2.440	62	1.889	48	0.5	1
2.5	64	2.775	70	2.440	62	0.5	1
3	76	3.425	87	2.795	71	0.5	1
3.5	89	3.700	94	3.503	89	0.5	1
4	102	4.133	105	3.779	96	0.5	1
4.5	114	4.724	120	4.400	112	0.5	1
5	127	5.393	137	4.842	123	0.5	2
6	152	6.500	166	5.900	150	0.5	2
7	178	7.300	185	6.550	166	1.0	4
8	203	8.550	217	7.700	196	1.0	4
9	229	9.100	231	8.200	208	1.0	5
10	254	10.250	260	9.200	234	1.0	6
11	279	11.200	284	10.300	262	1.0	9
12	305	12.450	316	11.350	288	1.0	9
14	356	15.100	384	13.800	351	1.0	13
15	381	15.800	401	14.350	364	1.0	14
16	406	17.000	432	15.600	396	1.0	16
18	457	19.250	489	17.450	443	1.0	20
20	508	20.650	525	19.150	486	2.0	30
21	533	22.100	561	20.650	525	2.0	32
24	610	25.500	648	23.550	598	2.0	38
27	686	27.700	704	26.250	667	2.0	44
30	762	31.000	787	29.250	743	2.0	60
32	812	32.00	812	31.125	794	2.0	36
36	914	36.800	935	34.500	876	2.0	96

The HFT Pipestoppers® Division, manufacture ranges of other plugs and stoppers, briefly described below. Full individual leaflets are available for each type.

HFT Pipestoppers® **Nylon Plugs** are light, non rusting easy to expand and can be dismantled for cleaning purposes and part replacement if required.

All plugs have hollow shafts for gas or liquid testing or draining and are supplied with a sealing cap.



Steel Expanding Single & Double Plugs for increased stability and higher pressure duties. For pressure testing and stopping all pipework from 1.5 inch (38 mm) upwards. The test pressure capability of the single stoppers is limited and the double versions increase that capability, while offering a greater stability in the pipe.



PlugFast™ Sealing Plugs, single and double port, for pressure testing and stopping all pipework from 17 - 95" (432 - 2,400 mm).

PlugFast™ Sealing Plugs, especially the large sizes, have the advantage over centre locking plugs, that the nuts enable plates to be closed together evenly with ease and even seal in pipes that have slight out of roundness.

INFLATABLE PIPE PLUGS AND STOPPERS



The range includes **Cylindrical**, **Spherical** or **Special Stoppers** like **Oil Chem** for use when breaking into existing lines for repairs, maintenance and new sections. As well as **Heat Protected Stoppers** for use up to 300°C (572°F).

These are especially useful where entrance and exit apertures are difficult to access with solid plugs.

Each inflatable bag is available in 1" (25 mm) sizes from 2" (50 mm) up to 82" (2 m) as standard and larger to special order.

These stoppers are ideal for debris stopping and to prevent the ingress of foreign bodies.

HFT PIPESTOPPERS®

Product Range of HFT Pipestoppers® Division:

- Mechanical Nylon Plugs
- Mechanical Aluminium Plugs
- Mechanical Steel Plugs
- Mechanical Steel Plugfast™
- Standard Sealing rings made from natural rubber with accessory alternative rings available manufactured from Silicone, Viton and Nitrile rubbers
- Inflatable Stoppers Cylindrical and Spherical
- Inflatable PetroChem™ Stoppers
- Inflatable Rubber Plugs
- Inflatable Pancake Stoppers
- Inflatable Heat Resistant Covers
- Pipe Freezing Accu-Freeze™
- Pipe Freezing Qwik-Freezer™