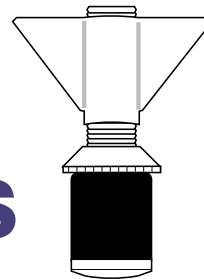


HFT Pipestoppers® Aluminium Pipe Plugs



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

0.5" BSP Outlet

Pipe Size Internal Diameter		Expansion Range	Min. Insertion into Pipe	Overall Length	Max. Psi	Approx. Weight
Inches	mm	mm	mm	mm		kg
1.5	38	38 - 50	45	94	30	0.17
2	51	49 - 62	43	90	30	0.22
2.5	64	62 - 77	43	92	30	0.27
3	76	73 - 89	43	94	20	0.31
3.5	90	84 - 103	53	96	15	0.36
4	102	94 - 110	47	94	10	0.36
4.5	114	112 - 130	56	140	10	0.47
5	127	125 - 142	60	95	10	0.79
6	152	146 - 168	48	96	10	0.70
1.0" BSP Outlet						
7	178	175 - 200	64	100	7	1.92
8	203	193 - 220	64	100	7	1.59
9	229	220 - 240	64	170	7	2.06
10	254	245 - 270	73	178	7	2.52
11	279	274 - 328	100	200	7	3.54
12	305	295 - 325	77	200	7	3.42
14	356	350 - 385	110	215	5	6.95
15	381	370 - 410	110	225	5	5.35
16	406	390 - 435	110	225	5	5.90
18	457	445 - 495	110	225	5	8.75
2.0" BSP Outlet						
20	508	495 - 550	145	255	5	14.4
21	533	495 - 550	145	255	3	16.0
22	559	546 - 572	145	255	3	18.0
24	610	595 - 650	145	255	3	22.0
26	660	648 - 673				25.0
27	686	673 - 699				26.5
28	711	699 - 724				27.0
30	762	749 - 775				28.0
32	813	800 - 826				32.0
33	838	826 - 851				35.0
34	864	851 - 876				37.0
36	914	902 - 927				37.0

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).

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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" (51 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:

- Pipestoppers® Expandable Nylon Pipe Plugs
- Pipestoppers® Weld Purge Plugs™ & Orbital Welding Purge Plug Kits
- Pipestoppers® Expandable Aluminium Plugs
- Pipestoppers® Expandable Steel Plugs
- Pipestoppers® Spherical, Cylindrical and PetroChem™ Inflatable Stoppers
- Pipestoppers® Inflatable Low Profile Stoppers and Rubber Plugs
- Pipestoppers® Accu-Freeze™ & Qwik-Freezer™ ice plug makers

Our HFT® Weld Purging Products

- Argweld® PurgEye® Weld Purge Monitors®, Argweld® Inflatable Tube, Pipe & Pipeline Weld Purging Systems, Argweld® Weld Purge Accessories, Techweld® MultiStrike® Tungsten Electrodes