

## 2. Data Sheet

### 2.1 Technical Specifications

I. **Standard:** BS8301, BS8005 & EN1610.

II. **Material Composition:**

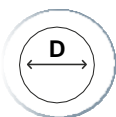
a. **Durable Steel Construction:** The mechanical Test Plugs are crafted with durable steel, ensuring strength and corrosion resistance.

b. **Rubber:** EPDM Rubber (Ethylene Propylene Diene Monomer Rubber)

III. **Corrosion Resistance:** Enhanced Protection: Coated with corrosion-resistant materials, such as zinc, ensuring longevity and performance in corrosive environments.

IV. **Identification Markings:** Clear Information: Marked with clear indications of size, and .

V. **Temperature Limits:** - 50°C to 125°C.



40mm to  
600mm



Back Pressure  
0,2 to 2 Bar



Material  
Choice



-50/+125 C



Corrosion  
Resistant



Safe  
Operation



Light  
Weight

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### 2.2 Metal Specifications

TYPE OF TEST	UNIT OF MEASUREMENT	SPECIFICATION REQUIREMENTS
Density	Kg/m <sup>3</sup>	7870
Melting point	°C	1375 – 1400
Elastic modulus (Min)	GPa	205
Ultimate tensile strength (Max)	Mpa	420
Hardness rockwell B	HB	71

### 2.3 Rubber Specifications

TYPE OF TEST	TEST PLUG SIZES	TEST METHOD	SPECIFICATION REQUIREMENTS
<b>Original physical properties</b>			
Hardness shore A (°)	1.5" to 24"	ASTM D 2240	60 ± 10
Tensile strength. MPa	1.5" to 3"	ASTM D 412	10 to 15
	3.5 to 4.5"		15 to 20
	5 to 24"		20 to 25
Compression Set at the test conditions 22 hours @ 100°C Solid (25 % compressed)	1.5" to 24"	ISO 1414 , ASTM D395	20% Max
<b>Heat Ageing 70 hours @ 70°C</b>			
Hardness, Shore A (°) max	1.5" to 24"		+10
Tensile change % max	1.5" to 24"	ASTM D 573	-20%
Elongation change % max	1.5" to 24"		-20%

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### 2.4 Sizes, Dimensions and Weight.

Part No	Pipe Size Internal Nominal Diameter		Plug Will Fit Pipes With Internal Diameter		Minimum Insertion Into Pipe	Overall Length Of Plug	Diameter of Water way	Maximum Allowable Back Pressure	Approx Weight
	Metric	Imperial	Minimum	Maximum					
TP2001	40mm	1 1/2"	38mm	50mm	45mm	94mm	1/2	30p.s.i	0.17kg
TP2002	50mm	2"	49mm	62mm	43mm	90mm	1/2	30p.s.i	0.22kg
TP2003	65mm	2 1/2"	62mm	77mm	43mm	92mm	1/2	30p.s.i	0.27kg
TP2004	75mm	3"	73mm	89mm	43mm	94mm	1/2	20p.s.i	0.31kg
TP2005	90mm	3 1/2"	84mm	103mm	53mm	96mm	1/2	15p.s.i	0.36kg
TP2006	100mm	4"	94mm	110mm	47mm	94mm	1/2	10p.s.i	0.36kg
TP2007	114mm	4 1/2"	112mm	130mm	56mm	140mm	1/2	10p.s.i	0.47kg
TP2008	125mm	5"	125mm	142mm	60mm	95mm	1/2	10p.s.i	0.79kg
TP2009	150mm	6"	146mm	168mm	48mm	96mm	1/2	10p.s.i	0.70kg
TP2010	175mm	7"	175mm	200mm	64mm	100mm	1	7p.s.i	1.92kg
TP2011	200mm	8"	193mm	220mm	64mm	100mm	1	7p.s.i	1.59kg
TP2012	225mm	9"	220mm	240mm	64mm	170mm	1	7p.s.i	2.06kg
TP2013	250mm	10"	245mm	370mm	73mm	178mm	1	7p.s.i	2.TP2kg
TP2014	275mm	11"	274mm	328mm	100mm	200mm	1	7p.s.i	3.45kg
TP2015	300mm	12"	295mm	325mm	77mm	200mm	1	7p.s.i	3.42kg
TP2016	325mm	13"	325mm	360mm	120mm	230mm	1	5p.s.i	4.75kg
TP2017	350mm	14"	350mm	385mm	110mm	215mm	1	5p.s.i	6.95kg
TP2018	375mm	15"	370mm	410mm	110mm	225mm	1	5p.s.i	5.35kg
TP2019	400mm	16"	390mm	435mm	110mm	225mm	1	5p.s.i	5.9kg
TP2020	450mm	18"	445mm	495mm	110mm	225mm	2	5p.s.i	8.75kg
TP2021	500mm	20"	495mm	550mm	145mm	255mm	2	5p.s.i	11.3kg
TP2022	525mm	21"	495mm	550mm	145mm	255mm	2	3p.s.i	11.3kg
TP2023	600mm	24"	595mm	650mm	145mm	255mm	2	3p.s.i	15.85kg