HANSEN[®] FITTINGS & PIPES

NYLON 6 FITTINGS FOR HDPE PIPES

It's Every Plumber's Dream

PATENT NO: MY-127837-A SIRIM CERTIFIED TO BS 5114:1975 (1981) (AMD.2-1987), MS 1058 License No: PS 068809, PS 068806 SPAN CERTIFIED

No Compression Rings No 'O' Rings No Crimping No Solvent Cement

Print Edition for September 2017

A HIGH PERFORMANCE MATERIAL

Approved by the Water Supply (Water Quality) Regulations 1989 & Water Regulations Advisory Committee (WRAS) of UK for its use in potable water, this material is superior to existing materials being used in terms of strength and ability to withstand heat. The fittings are designed and comply to British Standard BS 5114: 1975 (1981) (AMD.2 – 1987) and ISO 22391-3.

MECHANICAL PROPERTIES

Hansen fittings, together with high density polyethylene (HDPE) pipes or polyethylene – raised temperature (PE-RT) pipes, provide an unsurpassable potable water system. These sleek fittings are slim enough to be buried in walls and are able to withstand very high pressures.

Mechanical Properties	Test Conditions	Units	Standards	Nylon 6
Tensile Modulus	1 mm/min	MPa	ISO 527	3600
Tensile Stress at break	5 mm/min	MPa	ISO 527	75
Tensile Strain at break	5 mm/min	%	ISO 527	12
Flexural Modulus	2 mm/min	MPa	ISO 178	3100
Flexural Strenght	5 mm/min	MPa	ISO 178	120
Temperature of Deflection under load method Af	MPa	°C	ISO 75	190
Coefficient of Linear Thermal Expansion	23 to 55°C	10 ⁻⁴ / K	ASTM E 831	0.3
Water Absorbtion	Saturation Value in water at 23°C	%	ISO 62	8.5
Density		gm / cm ³	ISO 1183	1.23

TEST UNDER GONE BY THE HANSEN FITTINGS & PIPE SYSTEM



The only plastic fittings system for potable water in Malaysia to have under gone the cyclic pressure shock test $% \left({{{\rm{s}}_{\rm{s}}}} \right)$

tested at 23°C \pm 2°C for 10,000 cycles of alternate internal positive pressure of 1 bar \pm 0.5 bar and 15 bar \pm 0.5 bar at frequency of at least 30 pressure cycles per minute.

Resistance to pull out of assembled joint

The jointed assembly is applied a constant tension for 1 hour on the basis that it is subjected to a maximum internal test pressure of 37.5 bar.

Hydrostatic pressure test

The assembly shall withstand without leakage for 1 hour an internal positive pressure of 3 times its maximum sustained working pressure which is 37.5 bar.

Hydrostatic requirement when subjected to bending stress

When the assembly is bent to a radius of 20 times the diameter of the pipe, the jointed assembly shall withstand for 1 hour without leakage an internal positive pressure of 37.5 bar.

External pressure requirement

The jointed assembly shall withstand for 1 hour without leakage, a pressure of 0.80 bar above atmospheric pressure.

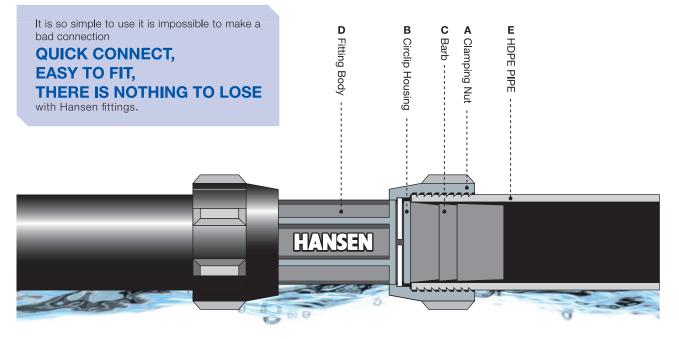
Effect on water

complies to BS 6920: Part 1 and Part 2.

Opacity

the wall of the fittings shall not transmit more than 0.2% of the visible light falling on it.

HOW IT WORKS



Push the Hansen fitting **D** into the pipe **E** (High Density Polyethylene Pipe) up to the circlip housing **B**.

Wind the nut onto the pipe a few turns by hand and tighten with a spanner until fully engaged against circlip housing **B**. Barb **C** on the Hansen fitting has 2 functions.

It seals and holds the polypipe in place from the inside. The clamping nut **A** also has 2 functions. It clamps the pipe down onto the barb **C** creating a high pressure seal and also gives a permanent vice like hold on the outside of the polypipe **E**.

HOW TO FIT THE HANSEN POLYPIPE FITTING



Cut the polypipe square with pipe cutters, knife or saw to the required length.



3

Wind the nut onto pipe a few turns. Tighten with spanner or stillson.



2

Push fittings into the pipe as far as possible.

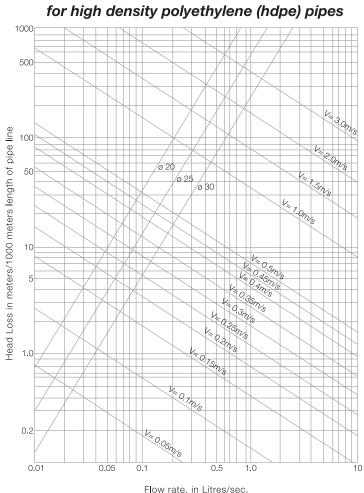
4

Simply the best. No heat, crimping, or solvent cement required. Leak proof. Nothing to lose.

BB // HIGH DENSITY POLYETHYLENE PIPES FOR COLD WATER SYSYEM

Our pipes are SIRIM approved and manufactured using approved raw materials, high density polyethylene and comply to MS 1058. The main advantages of polyethylene pipes for the transport of pressure fluids can be summarised as follows:

- ease, reliability and cost efficiency of jointing and laying operations.
- non toxic, low abrasion and flexibility.
- excellent resistance to water hammer phenomena.
- absence of scale on inside walls results in consistancy of pipeline hydraulic performance.
- immune to corrosion phenomena and has very good resistance to a wide range of chemicals.



FLOW DIAGRAM



HYDRAULIC PROPERTIES

exceed 1-2 meters per second in distribution mains. The hydraulically smooth bore of a hdpe pipe gives excellent flow characteristics

- **Colebook-White** *k* = 0.003 mm
- Hazen Williams c = 150

- $\mathbf{Q} = \frac{\pi \mathbf{D}^2}{4} \cdot \sqrt{2g\mathbf{D}_{\mathrm{L}}^{\mathrm{H}}} \cdot \log_{10} \left[\frac{\mathbf{D}}{\frac{k}{3.7} + \frac{2.51\vartheta}{\sqrt{2g\mathbf{D}_{\mathrm{L}}^{\mathrm{H}}}}} \right]^2$
- \mathbf{Q} = discharge (m³/s)
- D = pipe internal diameter (m) g = 9.8 m/s²
- $\frac{H}{L}$ = hydraulic gradient (m/m)
- k = Colebrook-White roughness co-efficient (m)
- \mathbf{n} = Kinematic viscosity of water (m²/s)

V = Velocity in m/sec ø = Nominal pipe size in mm

PIPE SIZES

BBB /	HANSEN PI	E PIPE	Outer D	iameter	Wall Th	ickness
OD (mm)	Nominal Size (inch)	Working Pressure (bar)	Max(mm)	Min(mm)	Max(mm)	Min(mm)
20.0	1⁄2"	16.0	20.3	20.0	2.7	2.3
25.0	3⁄4"	12.5	25.3	25.0	2.7	2.3
32.0	1"	12.5	32.3	32.0	3.4	3.0
40.0	11⁄4"	12.5	40.4	40.0	4.2	3.7
50.0	1½"	12.5	50.4	50.0	5.2	4.6









BENEFITS OF POLYETHYLENE (HDPE) PIPES

- A comprehensive range of high density polyethylene pipes and fittings provides a complete system for potable water.
- UV Stabilized
- Proven joint systems (used in Europe, USA, Canada, New Zealand, Australia, Indonesia and Thailand) offer long term, leak-free performance. Sleek joint system for use in confined areas or locations susceptible to ground movement and small enough to conceal in the wall.
- No Compression Rings, No 'O' rings, No Crimping, No Solvent Cement fast, leak proof and simple installation, requires no special site equipment or skilled labour. Low installation costs combined with the long life of Hansen pipe and fittings make it the cost-effective choice.
- Excellent hydraulic flow characteristics.
- Materials used are not permeated or degraded by organic or inorganic contaminants in the soil. They do not rust, or corrode.
- The high strength of Nylon and high density Polyethylene makes it suitable for high stress applications where fatigue or pressure surge may be experienced and gives security against unforeseen circumstances like ground subsidence.
- Patented System no "backyard" manufacturers or imitations. You are assured of high quality leak proof products.
- Test results from reputed testing bodies (SIRIM, etc) are available on request. -support bracket min 1m / bracket recommended.

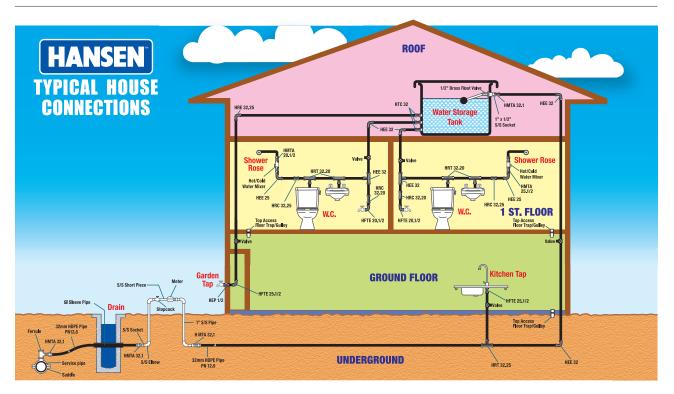
	MS 1058
Compatible with high density	BS 6572
polyethylene (HDPE) pipe	BS 6730
manufactured to	ISO 161-1
	DIN 8074







FULL HOUSE



SITE PICTURES



FITTINGS SPECIFICATIONS Hansen Fittings are compatible with high density polyethylene (HDPE) pipes manufactured to MS1058: Part 2: 2002 - 20mm fittings (PN 16), 25mm, 32mm, 40mm & 50mm (PN 12.5).

Equal Coupling						
-		Code	Size (mm)	А	В	с
A Ro	С	HEC 20	20 x 20	30	30	85
80 80		HEC 25	25 x 25	36	36	94
		HEC 32	32 x 32	44	44	105
and the second se	T D T	HEC 40	40 x 40	48	48	116
		HEC 50	50 x 50	61	61	126

Reducing Coupling						
		Code	Size (mm)	Α	В	С
<i>A</i>		HRC 25.20	25 x 20	36	30	109
de	C →	HRC 32.20	32 x 20	44	30	118
		HRC 32.25	32 x 25	44	36	122
		HRC 40.32	40 x 32	48	44	119
		HRC 50.32	50 x 32	61	44	124
		HRC 50.40	50 x 40	61	48	132

Equal Elbow							
		Code	Size (mm)	А	В	С	D
	A B	HEE 20	20 x 20	30	30	72	72
	The second se	HEE 25	25 x 25	36	36	83	83
	D	HEE 32	32 x 32	44	44	97	97
		HEE 40	40 x 40	48	48	115	115
<u></u>		HEE 50	50 x 50	61	61	125	125

Reducing Elbow							
	B ₩→	Code	Size (mm)	Α	В	С	D
		HRE 25.20	25 x 20	36	30	77	77
	c	HRE 32.25	32 x 25	44	36	89	91
		HRE 40.32	40 x 32	48	44	112	113
		HRE 50.40	50 x 40	61	48	119	122

Equal Tee								
	<mark>⊢^B</mark> ►	Code	Size (mm)	Α	В	С	D	Е
R	▲	HET 20	20 x 20 x 20	30	30	30	128	73
		HET 25	25 x 25 x 25	36	36	36	144	83
		HET 32	32 x 32 x 32	44	44	44	166	97
		HET 40	40 x 40 x 40	48	48	48	199	115
	J	HET 50	50 x 50 x 50	61	61	61	209	124

Reducing Tee								
Neutring lee		Code	Size (mm)	Α	В	с	D	Е
	K ⊂ ►	HRT 25,20	25 x 25 x 20	36	36	30	144	78
A China and a chin		HRT 32.20	32 x 32 x 20	44	44	30	160	84
		HRT 32.25	32 x 32 x 25	44	44	36	160	89
		HRT 40.32	40 x 40 x 32	48	48	44	199	113
1200000	D	HRT 50.32	50 x 50 x 32	61	61	44	209	116
		HRT 50.40	50 x 50 x 40	61	61	48	209	127
Female Thread Adaptor	(BSPT Female)							
	C	Code	Size (mm)	А		В		С
		HFTA 20.1/2	20 x ½"	30		1/2" BSPT Female		72
		HFTA 25.34	25 x ¾"	36		3/4 " BSPT Female		80
and the second sec		HFTA 32.1	32 x 1"	44		1" BSPT Female		90
		1				Bari Pelilate		
Female Thread Elbow (B	SPT Female)							
	let B →	Code	Size (mm)	A	B		C	D
		HFTE 20.1/2	20 x ½"	30	1/2 BSPT Fe		44	79
		HFTE 25.1/2	25 x ½"	36	1/2 BSPT Fe		50	91
		HFTE 25.34	25 x ¾"	36	3/4 BSPT Fe	male	50	91
	D	HFTE 32.1	32 x 1"	44	1" BSPT Fe		61	107
Female Brass Thread Ell	oow (BSPT Female)							
•	B	Code	Size (mm)	Α	В		с	D
		HFTE-B 20.1/2	20 x ½"	30	1/2 ¹ BSPT Fe		44	79
		HFTE-B 25.1/2	25 x ½"	36	BSPT Fe 1/2 BSPT Fe		50	91
					BSPT Fe	male		
Male Thread Adaptor (B	SPT Male)						_	
		Code	Size (mm)	A		В		С
	с	HMTA 20.1⁄2	20 x ½"	30		1/2" BSPT Male		83
M 🖬 🖬 🌒		HMTA 25.1/2	25 x ½"	36		1/2" BSPT Male		87
		HMTA 25.34	25 x ¾"	36		3/4 " BSPT Male		90
		HMTA 32.1	32 x 1"	44		1" BSPT Male		100
	NEW	HMTA 32.34	32 x ¾	44		3/4 " BSPT Male		97
		HMTA 40.11/4	40 x 1¼"	48		11/4" BSPT Male		113
		HMTA 50.11/2	50 x 1½"	61		1½" BSPT Male		124
Tank Connector (BSPT M	Ale & Female)							
		Code	Size (mm)	А	В		с	D
		HTC 25.34	25 x ³ / ₄ "	36	3/4 BSPT N		70	105
		HTC 32.1	32 x 1"	44	1" BSPT N BSPT N		54	117
					BSPT N	tale		
	D N	Code	Size (mm)	А	В		с	D
		HTC 40.11/4	40 x 1¼"	42	1 1/4 BSPT Fe		86	50
	A B C	HTC 50.1½	50 x 1½"	45	BSPT Fe		90	59
					BSPT Fe	male		
	1	I	l					

Tee with Female Thread	Branch (BSPT Female)							
		Code	Size (mm)		B	C	D	E
	NEW	HTFTB 20.20.1/2	20 x 20 x ½	_	30	1/2" BSPT Female	175	47
	D	HTFTB 25.25.1/2	25 x 25 x ½	2" 36	36	1/2" BSPT Female	159	47
		HTFTB 32.25.1/2	32 x 25 x ½	2" 44	36	1/2" BSPT Female	168	47
		HTFTB 32.32.1/2	32 x 32 x ½	2" 44	44	1/2" BSPT Female	174	47
	C	HTFTB 25.25.1	25 x 25 x 1	" 36	36	1" BSPT Female	164	53
		HTFTB 32.25.1	32 x 25 x 1	" 44	36	1" BSPT Female	175	53
		HTFTB 32.32.1	32 x 32 x 1	" 44	44	1" BSPT Female	180	53
Male Tee with Female Br	anch (BSPT Male & Female)						
		, Code	Size (mm)) A	в	С	D	Е
	С	HMTFB 25.1/2.1/2	25 x ½" x ½				164	47
		HMTFB 25.34.1/2	25 x ³ / ₄ " x ¹ / ₂		1/2" BSPT Male	1/2" BSPT Female	166	47
	₩	HMTFB 32.1/2.1/2	$32 \times \frac{1}{2}$ x $\frac{1}{2}$		3/4" BSPT Male	1/2" BSPT Female	171	47
	D				1/2" BSPT Male	1/2" BSPT Female		
		HMTFB 32.34.1/2	32 x ¾" x ½	2" 26	3/4 " BSPT Male	1/2" BSPT Female	173	47
Male Cross Tee (BSPT M	ale & Female)							
		Code	Size (mr	m) /	АВ	С	DI	F
	⊢ – → D	HMCT 25.1/2.34.1/2	25 x ½" x ¾	"x ½" 3	6 1/2" BSPT Male	3/4" BSPT Male B	1/2" 16	66 63
		HMCT 25.1/2.1/2.1/2	25 x ½" x ½	" x ½" 3		1/2" BSPT Male B	1/2" 16	63 63
	¥	HMCT 32.1/2.3/4.1/2	32 x ½" x ¾	" x ½" 4				73 63
	В	HMCT 32.1/2.1/2.1/2	32 x ½" x ½	" x ½" 4			1/2" 17	71 63
Cross Tee (BSDT Male &	Eemale)							
Cross Tee (BSPT Male &	E	Code	Size (m	m)	D			
Cross Tee (BSPT Male &	Female) ⊢ E → I D	Code	Size (mr		B	C		E F
Cross Tee (BSPT Male &		HCT 25.1/2.25.1/2	25 x ½" x 25	5 x ½" 3	6 1/2" BSPT Male	36	1/2" 1{ SPT Female	59 63
Cross Tee (BSPT Male &		HCT 25.½.25.½ HCT 25.½.32.½	25 x ½" x 25 25 x ½" x 32	5 x ½" 3 2 x ½" 3	6 1/2" BSPT Male 6 1/2" BSPT Male	36 44	1/2" 15 SPT Female 1/2" 16 SPT Female	59 63 66 63
Cross Tee (BSPT Male &		HCT 25.1/2.25.1/2	25 x ½" x 25	5 x ½" 3 2 x ½" 3	6 1/2" BSPT Male	36 44	1/2" 18 SPT Female 1/2" 16	59 63
Cross Tee (BSPT Male &		HCT 25.½.25.½ HCT 25.½.32.½	25 x ½" x 25 25 x ½" x 32	5 x ½" 3 2 x ½" 3	6 1/2" BSPT Male 6 1/2" BSPT Male	36 44	1/2" 15 SPT Female 1/2" 16 SPT Female	59 63 66 63
		HCT 25.½.25.½ HCT 25.½.32.½ HCT 32.½.32.½	25 x ½" x 25 25 x ½" x 32	5 x ½" 3 2 x ½" 3	6 1/2" BSPT Male 6 1/2" BSPT Male	36 44	1/2" 15 SPT Female 1/2" 16 SPT Female	59 63 66 63
	\mathbf{Ale}	HCT 25.½.25.½ HCT 25.½.32.½ HCT 32.½.32.½ Code Si	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A	6 1/2" BSPT Male 6 1/2" BSPT Male	36 44 44	1/2" 15 SPT Female 1/2" 16 SPT Female 1/2" 17 SPT Female	59 63 66 63 74 63
	\mathbf{Ale}	HCT 25.½.25.½ HCT 25.½.32.½ HCT 32.½.32.½ HCT 32.½.32.½	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm)	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 2 x 1/2" 4 A 1" BSPT Made	6 1/2" BSPT Male 6 1/2" BSPT Male 4 1/2" BSPT Male 8 BSPT Male	36 44 44 8 8 8 8 3 4 7 7 Fernale	1/2" 15 SPT Fermale 15 J/2" 16 J/2" 11 J/2" 17 SPT Fermale 17	 59 63 63 74 63 C
Bush (BSPT Male & Fema Option	\mathbf{E} \mathbf{F} \mathbf{F} \mathbf{C} \mathbf{F}	HCT 25.½.25.½ HCT 25.½.32.½ HCT 32.½.32.½ HCT 32.½.32.½	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 1" x ¾"	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A	6 1/2" BSPT Male 6 1/2" BSPT Male 4 1/2" BSPT Male 8 BSPT Male	36 44 44	1/2" 15 SPT Fermale 15 J/2" 16 J/2" 11 J/2" 17 SPT Fermale 17	 59 63 63 74 63 C 29
	$\frac{E}{F} \stackrel{D}{\longrightarrow} \frac{E}{F} \stackrel{D}$	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HCT 32.1½.32.√ Si HB 1.¾ HB 1.¾	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 1" x ¾"	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 2 x 1/2" 4 A 1" BSPT Male 3/4" BSPT Male	6 1/2" BSPT Male 6 1/2" BSPT Male 4 1/2" BSPT Male 8 BSPT Male	36 44 44 8 8 3%" 17 Formation 77 Formation	1/2" 15 SPT Fermale 15 J/2" 16 J/2" 11 J/2" 17 SPT Fermale 17	 63 63 63 63 63 24 25 26
Bush (BSPT Male & Fema Option	E D C C B C C C C C C C C C C C C C	HCT 25.½25.√ HCT 25.½32.√ HCT 32.½32.√ GCode Si HB 1.¾ HB ¾.½ Code Si HCT 32.√2.32.√2	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 4" x ¾" ze (mm)	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A 1" BSFT Male 3/4" BSFT Male	6 1/2" BS7T Male 6 1/2" Male 1/2" BS7T Male 8 8 8 8 8 8 8 8 8 8	36 44 44 8 3/4" ⁹⁷ Fernale	1/2" 1 SPT Female 1 SPT Female 1 SPT Female 1 1/2" 1 SPT Female 1	 63 63 63 63 74 63 C C
Bush (BSPT Male & Fema Option	$\frac{E}{F} \stackrel{D}{\longrightarrow} \frac{E}{F} \stackrel{D}$	HCT 25.½25.√ HCT 25.½32.√ HCT 32.½32.√ GCode Si HB 1.¾ HB ¾.½ Code Si HCT 32.√2.32.√2	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 1" x ¾"	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 2 x 1/2" 4 A 1" BSPT Male 3/4" BSPT Male	6 1/2" BS7T Male 6 1/2" Male 1/2" BS7T Male 8 8 8 8 8 8 8 8 8 8	36 44 44 8 8 3%" 17 Formation 77 Formation	1/2" 1 SPT Female 1 SPT Female 1 SPT Female 1 1/2" 1 SPT Female 1	 63 63 63 63 63 24 25 26
Bush (BSPT Male & Fema Option	$\frac{E}{P}$ \frac{E}	HCT 25.½25.√ HCT 25.½32.√ HCT 32.½32.√ GCode Si HB 1.¾ HB ¾.½ Code Si HCT 32.√2.32.√2	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 4" x ¾" ze (mm)	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A 1" BSFT Male 3/4" BSFT Male	6 1/2" BS7T Male 6 1/2" Male 1/2" BS7T Male 8 8 8 8 8 8 8 8 8 8	36 44 44 8 3/4" ⁹⁷ Fernale	1/2" 1 SPT Female 1 SPT Female 1 SPT Female 1 1/2" 1 SPT Female 1	 63 63 63 63 74 63 C C
Bush (BSPT Male & Fema Opposed Extension Piece (BSPT F	$\frac{E}{P}$ \frac{E}	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HB 1.¾ HB 34.½ HEP 1½ HEP 1½	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 4" x ¾" ze (mm)	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A 1" BSFT Male 3/4" BSFT Male	6 1/2" BS7T Male 6 1/2" Male 1/2" BS7T Male 8 8 8 8 8 8 8 8 8 8	36 44 44 8 3/4" ⁹⁷ Fernale	1/2" 1 SPT Female 1 SPT Female 1 SPT Female 1 1/2" 1 SPT Female 1	 59 63 63 74 63 C C
Bush (BSPT Male & Fema Opposed Extension Piece (BSPT F	$\frac{E}{F} = \frac{B}{F}$	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HCT 32.½.32.√ Sinter state st	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 4" x ¾" ze (mm)	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A 1" BSFT Male 3/4" BSFT Male	6 1/2" BS7T Male 6 1/2" Male 1/2" BS7T Male 8 8 8 8 8 8 8 8 8 8	36 44 44 8 3/4" ⁹⁷ Fernale	1/2" 1 SPT Female 1 SPT Female 1 SPT Female 1 SPT Female 1	 59 63 63 74 63 C C
Bush (BSPT Male & Fema Opposed Extension Piece (BSPT F	$\frac{E}{P}$ \frac{E}	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HCT 32.½.32.√ GCode HB 1.¾ HB %1/2 GCode HEP ½ HEP ½ ale)	25 x 1/2" x 25 25 x 1/2" x 32 32 x 1/2" x 32 ze (mm) 1" x 3/4" 4" x 1/2" ze (mm) 2"L x 1/2"	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A A 1" BSPT Male A 1/2" BSPT Male A A	6 1/2" BSFT Male 6 1/2" BSFT Male 4 1/2" BSFT Male 6 BSFT Male 8 BSFT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 B	36 a 44 a 44 a 44 a 3⁄4 "	12" 15 SPT Female 1 12" 1 12" 1 12" 1	 59 63 64 <
Bush (BSPT Male & Fema Opposed Extension Piece (BSPT F	$\frac{E}{F} = \frac{B}{F}$ $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ $\frac{F}{F} = \frac{F}$	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HCT 32.½.32.√ GCode HB 1.¾ HB %1/2 GCode HEP ½ HEP ½ ale)	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 4" x ½" 25 x ½" x 32 ze (mm) 22 x ½" x 32 23 x ½" x 32 24 x ½ 25 x ½" x 32 25 x ½" x ½" x ½" x 32 25 x ½ x ½" x ½" x 32 25 x ½ x ½x ½ x ½x 32 25 x ½ x ½x 32 25 x 32 x 32 25 x 32 x 32 x 32 25 x 32 x	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A 1" BSPT Male SPT Male SPT Male	6 1/2" BSFT Male 6 1/2" BSFT Male 4 1/2" BSFT Male 6 BSFT Male 8 BSFT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 B	36 a 44 a 44 a 77 Formile 77 Formile 8 1/2" 17 Formile	12" 15 SPT Female 1 12" 1 12" 1 12" 1	 59 63 64 6
Bush (BSPT Male & Fema Open Extension Piece (BSPT F Open Extension Piece Brass T Open Extension Piece Brass T	$\frac{E}{F} = \frac{B}{F} = \frac{B}{F}$ ale) $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ emale & Male) $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ hreaded (BSPT Female & M $\frac{F}{F} = \frac{F}{F}$	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HCT 32.½.32.√ GCode HB 1.¾ HB %.½ GCode HB %1½ HEP ½ 11 Code Si HEP ½ ale) Code Si	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 4" x ½" 25 x ½" x 32 ze (mm) 22 x ½" x 32 23 x ½" x 32 24 x ½ 25 x ½" x 32 25 x ½" x ½" x ½" x 32 25 x ½ x ½" x ½" x 32 25 x ½ x ½x ½ x ½x 32 25 x ½ x ½x 32 25 x 32 x 32 25 x 32 x 32 x 32 25 x 32 x	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 A A 1" BSPT Male A 1/2" BSPT Male A A	6 1/2" BSFT Male 6 1/2" BSFT Male 4 1/2" BSFT Male 6 BSFT Male 8 BSFT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 BSTT MALE 8 B	36 a 44 a 44 a 44 a 3⁄4 "	12" 15 SPT Female 1 12" 1 12" 1 12" 1	 59 63 64 64 64 65 <
Bush (BSPT Male & Fema Opposed Extension Piece (BSPT F	$\frac{E}{F} = \frac{B}{F} = \frac{B}{F}$ ale) $\frac{F}{F} = \frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ emale & Male) $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ hreaded (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M ended (BSPT Female &	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HCT 32.½.32.√ GOODE NB 1.½ HB 1.¾ HB %.½ HB %.½ HB %.½ HEP ½ 11 Code Si HEP ½ 11 Code Si HEP ½ 11 Code Si HEP-B ½ 11 Code Si HEP-B ½ 12	25 x 1/2" x 25 25 x 1/2" x 32 32 x 1/2" x 32 32 x 1/2" x 32 ze (mm) 1" x 3/4" (4" x 1/2" (4" x 1/2") (4" x 1/2" (4" x 1/2") (4" x 1/2") (4	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 А ВЭРТ Мак ВЭРТ Мак ВЭРТ Мак ВЭРТ Геллак	6 1/2" BSFT Male 6 1/2" BSFT Male 4 1/2" BSFT Male 5 BSFT Male 5 BSFT Male 5 BSFT Male 6 BSF 5 BSFT Male 6 BSF 5 BSF 5 BSF 5 BSF 5 BSFT Male 7 BSFT MAL 7 BSFT MAL 7 BSTT MAL 7 BSTT MAL 7 BSTT MAL 7 BSTT MAL 7	36 44 44 8 34 4 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	12" 15 SPT Female 1 12" 1 12" 1 12" 1	 59 63 64 <
Bush (BSPT Male & Fema Open Extension Piece (BSPT F Open Extension Piece Brass T Open Extension Piece Brass T	$\frac{E}{F} = \frac{E}{F} = \frac{E}{F}$ $\frac{E}{F} = \frac{E}{F} = \frac{E}{F}$ $\frac{E}{F} = \frac{E}{F} = \frac{E}{F}$ $\frac{E}{F} = \frac{E}{F}$ $\frac{E}{F}$ $\frac{E}{F} = \frac{E}{F}$ \frac{E}	HCT 25.½.25.√ HCT 25.½.32.√ HCT 32.½.32.√ HCT 32.½.32.√ GOODE NB 1.½ HB 1.¾ HB %.½ HB %.½ HB %.½ HEP ½ 11 Code Si HEP ½ 11 Code Si HEP ½ 11 Code Si HEP-B ½ 11 Code Si HEP-B ½ 12	25 x ½" x 25 25 x ½" x 32 32 x ½" x 32 ze (mm) 4" x ½" 25 x ½" x 32 ze (mm) 22 x ½" x 32 23 x ½" x 32 24 x ½ 25 x ½" x 32 25 x ½" x ½" x ½" x 32 25 x ½ x ½" x ½" x 32 25 x ½ x ½x ½ x ½x 32 25 x ½ x ½x 32 25 x 32 x 32 25 x 32 x 32 x 32 25 x 32 x	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 А А 1" ВЭРТ Мае ВЭРТ Мае А У/2" ВЭРТ Мае ВЭРТ Мае А	6 1/2" BSFT Male 6 1/2" BSFT Male 4 1/2" BSFT Male 5 BSFT Male 5 BSFT Male 5 BSFT Male 6 BSF 5 BSFT Male 6 BSF 5 BSF 5 BSF 5 BSF 5 BSFT Male 7 BSFT MAL 7 BSFT MAL 7 BSTT MAL 7 BSTT MAL 7 BSTT MAL 7 BSTT MAL 7	36 a 44 a 44 a 44 a 3⁄4 "	12" 15 SPT Female 1 12" 1 12" 1 12" 1	 59 63 64 64 64 64 64 64 64 65 65 65 65 65 65 65 65 66 <
Bush (BSPT Male & Fema Open Extension Piece (BSPT F Open Extension Piece Brass T Open Extension Piece Brass T	$\frac{E}{F} = \frac{B}{F} = \frac{B}{F}$ ale) $\frac{F}{F} = \frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ emale & Male) $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ hreaded (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M $\frac{F}{F} = \frac{F}{F}$ ended (BSPT Female & M ended (BSPT Female &	HCT 25.½.25. HCT 25.½.32. HCT 32.½.32. HCT 32.½.32. HCT 32.½.32. HCT 32.½.32. HCT 32.½.32. HCT 32.½.32. HCT 32. HCT 32	25 x 1/2" x 25 25 x 1/2" x 32 32 x 1/2" x 32 32 x 1/2" x 32 ze (mm) 1" x 3/4" (4" x 1/2" (4" x 1/2") (4" x 1/2" (4" x 1/2") (4" x 1/2") (4	5 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 3 2 x 1/2" 4 А ВЭРТ Мак ВЭРТ Мак ВЭРТ Мак ВЭРТ Геллак	При п	36 44 44 8 34 4 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	12 1 SPT Female 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 12/2" 1 1 1 <td> 59 63 64 <</td>	 59 63 64 <

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