

# Prezfit<sup>®</sup>

## Spōnd<sup>®</sup>

### Joint Fittings & Pipes

Simply Easy & Reliable



Site Photo



***SPIND® High Density Polyethylene  
(HDPE) pipe Dimension and Weight (PE 100)***

## SPIND® High Density Polyethylene (HDPE) pipe Dimension and Weight (PE 80)

Pipe-Series										
S-10			S-8		S-6.3		S-5		S-4	
Normal Pressure For Design Stress 6.3N/mm <sup>2</sup>										
PN 6.3			PN 8		PN 10		PN 12.5		PN 16	
OD mm	t mm	wt kg/m	t mm	wt kg/m	t mm	wt kg/m	t mm	wt kg/m	t mm	wt kg/m
20	-	-	-	-	-	-	2.0	0.117	2.3	0.135
25	-	-	-	-	-	-	2.3	0.171	2.8	0.202
32	2.0	0.19	-	-	2.4	0.23	2.9	0.279	3.6	0.330
40	-	-	2.4	0.297	-	-	3.7	0.430	4.5	0.514
50	2.4	0.38	-	-	3.7	0.56	4.6	0.666	5.6	0.795
63	3.0	0.58	3.8	0.724	4.7	0.88	5.8	1.05	7.1	1.27
75	3.6	0.83	4.5	1.02	5.5	1.23	6.8	1.48	8.4	1.78
90	4.3	1.19	5.4	1.47	6.6	1.76	8.2	2.12	10.0	2.55
110	5.3	1.78	6.6	2.18	8.1	2.63	10.0	3.14	12.3	3.80
125	6.0	2.29	7.4	2.77	9.2	3.39	11.4	4.08	14.0	4.90
140	6.7	2.84	8.3	3.48	10.3	4.24	12.7	5.11	15.7	6.16
160	7.7	3.73	9.5	4.54	11.8	5.53	14.6	6.67	17.9	8.01
180	8.6	4.68	10.7	5.73	13.3	7.01	16.4	8.42	20.1	10.14
200	9.6	5.79	11.9	7.07	14.7	8.60	18.2	10.4	22.4	12.53
225	10.8	7.32	13.4	8.95	16.6	10.91	20.5	13.1	25.1	15.78
250	11.9	8.98	14.8	10.98	18.4	13.44	22.7	16.2	27.9	19.48



# SPIND PREZFIT® Fitting Size & Range

Simply Easy & Reliable

## Equal Coupling

Code	Size (mm)
SEC 20	20 x 20
SEC 25	25 x 25
SEC 32	32 x 32
SEC 40	40 x 40
SEC 50	50 x 50
SEC 63	63 x 63



## Male Thread Elbow

Code	Size (mm)
SMTE 20.1/2	20 x 1/2"
SMTE 25.1/2	25 x 1/2"
SMTE 25.3/4	25 x 3/4"
SMTE 32.3/4	32 x 3/4"
SMTE 32.1	32 x 1"



## Male Thread Adaptor

Code	Size (mm)
SMTA 20.1/2	20 x 1/2"
SMTA 25.1/2	25 x 1/2"
SMTA 25.3/4	25 x 3/4"
SMTA 32.3/4	32 x 3/4"
SMTA 32.1	32 x 1"
SMTA 40.1.1/4	40 x 1 1/4"
SMTA 50.1.1/2	50 x 1 1/2"
SMTA 63.2	63 x 2"



## Reducing Coupling

Code	Size (mm)
SRC 25.20	25 x 20
SRC 32.20	32 x 20
SRC 32.25	32 x 25
SRC 40.32	40 x 32
SRC 50.40	50 x 40
SRC 63.50	63 x 50



## Female Thread Elbow

Code	Size (mm)
SFTE 20.1/2	20 x 1/2"
SFTE 25.1/2	25 x 1/2"
SFTE 25.3/4	25 x 3/4"
SFTE 32.3/4	32 x 3/4"
SFTE 32.1	32 x 1"
SFTE 40.1.1/4	40 x 1 1/4"
SFTE 50.1.1/2	50 x 1 1/2"



## Female Thread Adaptor

Code	Size (mm)
SFTA 20.1/2	20 x 1/2"
SFTA 25.1/2	25 x 1/2"
SFTA 25.3/4	25 x 3/4"
SFTA 32.3/4	32 x 3/4"
SFTA 32.1	32 x 1"
SFTA 40.1.1/4	40 x 1 1/4"
SFTA 50.1.1/2	50 x 1 1/2"



## Equal Elbow

Code	Size (mm)
SEE 20	20 x 20
SEE 25	25 x 25
SEE 32	32 x 32
SEE 40	40 x 40
SEE 50	50 x 50
SEE 63	63 x 63



## Equal Tee

Code	Size (mm)
SET 20	20 x 0 x 20
SET 25	25 x 25 x 25
SET 32	32 x 32 x 32
SET 40	40 x 40 x 40
SET 50	50 x 50 x 50
SET 63	63 x 63 x 63



## Male Thread Tee

Code	Size (mm)
SMTT 20.1/2	20 x 20 x 1/2"
SMTT 25.1/2	25 x 25 x 1/2"
SMTT 25.3/4	25 x 25 x 3/4"
SMTT 32.3/4	32 x 32 x 3/4"
SMTT 32.1	32 x 32 x 1"
SMTT 63.2	63 x 63 x 2"



## Reducing Elbow

Code	Size (mm)
SRE 25.20	25 x 20
SRE 32.20	32 x 20
SRE 32.25	32 x 25
SRE 40.32	40 x 32
SRE 50.40	50 x 40
SRE 63.50	63 x 50



## Reducing Tee

Code	Size (mm)
SRT 25.20	25 x 25 x 20
SRT 32.20	32 x 32 x 20
SRT 32.25	32 x 32 x 25
SRT 40.32	40 x 40 x 32
SRT 50.40	50 x 50 x 40
SRT 63.50	63 x 63 x 50



## Female Thread Tee

Code	Size (mm)
SFTT 20.1/2	20 x 20 x 1/2"
SFTT 25.1/2	25 x 25 x 1/2"
SFTT 25.3/4	25 x 25 x 3/4"
SFTT 32.3/4	32 x 32 x 3/4"
SFTT 32.1	32 x 32 x 1"



## M+F Valve Socket

Code	Size (mm)
SMFVS	1/2" x 1/2"



## Tank Connector

Code	Size (mm)
STC 25.3/4	25 x 3/4"
STC 32.1	32 x 1"
STC 40.1.1/4	40 x 1 1/4"
STC 50.1.1/2	50 x 1 1/2"



Cold Water Fitting

## SPIND® High Density Polyethylene (HDPE) pipe Dimension and Weight (PE 100)

**Standard : MS 1058 equivalent to ISO 4427 • Color : Black with 4 blue stripes**

PIPE OD mm	PN 10			PN 12.5			PN 16		
	e min mm	e max mm	Wt kg/m	e min mm	e max mm	Wt kg/m	e min mm	e max mm	Wt kg/m
20							2.0	2.3	0.117
25				2.0	2.3	0.149	2.3	2.7	0.171
32	2.0	2.3	0.194	2.4	2.8	0.231	3.0	3.4	0.279
40	2.4	2.8	0.295	3.0	3.5	0.362	3.7	4.2	0.431
50	3.0	3.4	0.453	3.7	4.2	0.550	4.6	5.2	0.669
63	3.8	4.3	0.722	4.7	5.3	0.877	5.8	6.5	1.057
75	4.5	5.1	1.02	5.6	6.3	1.24	6.8	7.6	1.48
90	5.4	6.1	1.47	6.7	7.5	1.78	8.2	9.2	2.14
110	6.6	7.4	2.18	8.1	9.1	2.64	10.0	11.1	3.17
125	7.4	8.3	2.78	9.2	10.3	3.39	11.4	12.7	4.12
160	9.5	10.6	4.56	11.8	13.1	5.55	14.6	16.2	6.73
180	10.7	11.9	5.76	13.3	14.8	7.05	16.4	18.2	8.51
200	11.9	13.2	7.11	14.7	16.3	8.65	18.2	20.2	10.50
225	13.4	14.9	9.02	16.6	18.4	10.98	20.5	22.7	13.28
250	14.8	16.4	11.05	18.4	20.4	13.52	22.7	25.1	16.33
280	16.6	18.4	13.89	20.6	22.8	16.94	25.4	28.1	20.48
315	18.7	20.7	17.58	23.2	25.7	21.47	28.6	31.6	25.92
355	21.1	23.4	22.38	26.1	28.9	27.23	32.2	35.6	32.91
400	23.7	26.2	28.28	29.4	32.5	34.52	36.3	40.1	41.78
450	26.7	29.5	35.83	33.1	36.6	43.73	40.9	45.1	52.90
500	27.7	32.8	44.28	36.8	40.6	53.97	45.4	50.1	65.29
560	33.2	36.7	55.47	41.2	45.5	67.71	50.8	56.0	81.79
630	37.4	41.3	70.26	46.3	51.1	85.58	57.2	63.1	103.63

**Spind Malaysia Sdn Bhd** is proud once again to introduce our highly innovative and patent no. MY 142688-A **Spind Prezfit** Joint Fittings. This fittings are made of Nylon 6 (Polyamide) a high performance semi crystalline material.

**Spind Prezfit** material is approved by the Water Supply (Water Quality) Regulations 1989 & Water Regulations Advisory Committee of United Kingdom for use in potable water supply.



## Prezfit Ring

**Bidirectional Ring**  
Impossible to assemble wrongly.



**Durable & Long Lasting**  
Made of High Grade Engineering material.



**Intelligence Structure**  
Self compensating action to accommodate pipe with different thickness.



**Environmental Friendly**  
Reuse and Zero Waste



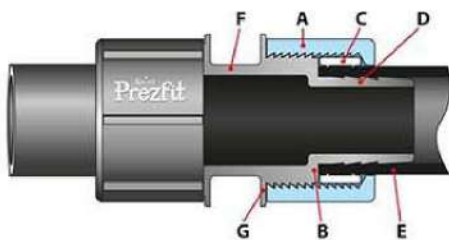
**Secure Locking System**  
Mechanism to prevent slipping during high/low pressure fluctuation.



**Strong & Flexible**  
Do not break easily during assembly of fittings.



## Innovation System



1. Firstly cut the pipe (E) square and flat with a proper pipe cutter.
2. Then slide on the nut (A) with back end going onto the pipe first followed by the compression ring (C).
3. Push the fitting (F) into the pipe (E) until it reaches the butt end of fitting (B)
4. Pull the ring (C) into position to reach end of pipe at butt end of fitting (B)
5. Now push the nut (A) onto fitting (F) and start to tighten a few turns with hand and then a pipe wrench until nut (A) reaches the end (G).
6. The tightening motion of nut (A) onto body of fitting (F) causes the ring (C) to compress and hold on to pipe (E) with its reverse hook bars as well as compress the pipe (E) that causes the bars on fitting (D) to create a permanent high pressure seal without the use of any rubber ring.
7. Simple, easy and reliable making it almost impossible to have a bad connection.

A superior material in terms of strength and ability to withstand high temperature and pressure in hot and cold water supply lines makes it a highly sought after material for the 21<sup>st</sup> century.

**Spind Prezfit** Joint Fittings are designed and manufactured to compliant with British Standards BS 5114: 1975, ISO 22391-3 and SIRIM II:2017 (compatible to ISO 17885:2015) and compatible with High Density Polyethylene (HDPE) pipes manufactured to MS 1058, (PE 80) and Polyethylene Raised Temperature (PE-RT) pipes manufactured to ISO 22391.

A simple method of jointing makes it a preferred choice over conventional systems i.e. bulky coupling, expensive heat jointing, butt jointing machines, unreliable clamping & crimping tools.

**Spind Prezfit** fittings with High Density Polyethylene (HDPE), Polyethylene Raised Temperature (PE-RT) pipes and other compatible pipes make the perfect partner to provide a superior potable water system that is easy to work, cost effective with excellent hydraulic flow characteristic ultra low friction coupled with corrosion and rust resistance.

## Installation Method



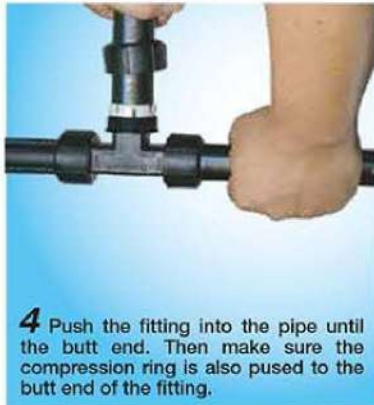
**1** Cut the HDPE pipe to length with pipe cutter or saw.



**2** Slide the nut with the back end going onto the pipe.



**3** Slide the compression ring onto the pipe.



**4** Push the fitting into the pipe until the butt end. Then make sure the compression ring is also pushed to the butt end of the fitting.



**5** Fasten the nut with hand follow by tightening with pipe wrench.



**6** Neat and clean - Simply easy and reliable joint.

\*The above mentioned Installation Method is applicable for jointing all sizes of **Prezfit™** fittings to PE-RT pipes, HDPE pipes and other compatible pipes.

## Mechanical Properties of SPIND Prezfit Fittings

Mechanical Properties	Test Condition	Unit	Standard	Value
Tensile Modulus	1mm/min	MPa	ISO 527-1, -2	3300
Tensile Stress at break	5mm/min	MPa	ISO 527-1, -2	60
Tensile Stress at break	5mm/min	%	ISO 527-1, -2	15
Flexural Modulus	2mm/min	MPa	ISO 178	2700
Flexural Strength	2mm/min	MPa	ISO 178	95
Vicat Softening Temperature	50N; 120°C	°C	ISO 306	>200
Coefficient of Linear Thermal Expansion (Parallel)	23 to 55°C	10 <sup>-4</sup> /K	ISO 11359-1, -2	0.3
Water Absorption (Saturation Value)	Water at 23°C	%	ISO 62	~8.5
Density		kg/m <sup>3</sup>	ISO 1183	1230

\*PA 6, 15% glass fibers, WRC-listed (Water Research Council) 08 UK, for hot and cold water (up to 85°C)

- **Spind Prezfit® Joint Fittings** are designed and manufactured to comply with British Standards BS 5114:1975, SIRIM II:2017 (compatible to ISO 17885:2015) and International Standard ISO 22391
- **Compatible with High Density Polyethylene (HDPE) pipes** manufactured to: MS 1058 / BS 6572 / BS 6730 / ISO 161-1 / DIN 8074
- **Compatible with Polyethylene Raised Temperature (PE-RT) pipes** manufactured to: ISO 22391

## SPIND Prezfit Fittings With HDPE, PE-RT Pipes and other compatible pipes

- Both materials are highly resilient to internal & external stresses.
- HDPE and PE-RT pipes are flexible and therefore absorb stress in water line caused by water hammer, sudden built-up of pressure in incoming main's and pneumatic pump systems. Fittings are rigid and solid as not to give way at jointing ends.
- Nylon 6 Spind Prezfit® fittings, HDPE and PE-RT pipes are non toxic and naturally harmless and safe for potable water.
- A smooth and ultra low friction gives a better flow.
- Light weight - easily transportable and installed with least of hassle.
- Simple jointing method saves cost in terms of time and labour.
- Materials are recyclable and totally eco friendly.

# SPIND® High Density Polyethylene (HDPE) Pipe

Cold Water Pipes To MS 1058: Part 2:2005

Manufactured to: BS 6572, BS 6730, ISO-161-1 & DIN 8074-20mm to 250mm

As one of the major manufacturer of HDPE pipe in malaysia, SPIND® HDPE pipes are demanded strict conformity to MS 1058: Part 2:2005 standard specifications. Our products are licensed by SIRIM and approved by the local water authorities to be the used as the top mark for quality. The grating of the top mark confirms that the company's manufacturing, testing and quality control systems complies with the strigent licensing requirements and thus ensures that the products quality is consistently maintained.

## Principal Advantages for using SPIND® HDPE Pipe

- Light-weight for ease of installation and handling
- Immunity to corrosion, chemical and micro-biological resistance
- Flexible
- High impact strength and toughness
- Alternative installation techniques possible

Our products are examined and tested to ensure to compliance with all the relevant standard specifications. The specified tests are all carried out in our laboratory. They are as follow:

- Appearance, dimensions and ovality
- Hydrostatic strength at 80°C for 165 hours and 1000 hours
- Oxidation Induction Time (OIT)
- Melt Flow Rate (MFR)

## SPIND® High Density Polyethylene (HDPE) Pipe Dimension and Weight (PE 80)

Pipe ø (mm)	e min (mm)	e max (mm)	Weight (kg/m)
<b>PN 16</b>			
20	2.3	2.6	0.135
<b>PN 12.5</b>			
25	2.3	2.6	0.171
32	2.9	3.3	0.270
40	3.7	4.1	0.430
50	4.6	5.1	0.666
63	5.8	6.4	1.05



High Density Polyethylene (HDPE) pipe



Oxidation Induction Time Tester



Melt Flow Rate Indexer





## Recognition





# Spind<sup>®</sup>



## Company overview

A professionally managed company, SPIND MALAYSIA SDN. BHD. is a strong contender with experience and expertise to bring new and innovative products to our highly competitive building industry. Based on fundamentals of integrity, good business ethics and simple business strategy we are well established to forge new business ventures with partners in marketing, distribution and sales.

A highly trained and experienced team of dedicated technicians and marketing staff with proficient background in plumbing industry is on hand to serve our esteemed customers.

Quality is the main focus of our company and therefore with this in mind all products manufactured and distributed by our company is checked and verified by our in-house testing and quality control department to ensure a flawless product reaching our customers.

Customer satisfaction in terms of quality, ease of use and reliability will ensure that our products will always stand above the rest.

**Spind Malaysia Sdn. Bhd.** (co. No. 348122-P)

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