



POLYETHYLENE PIPE SYSTEMS  
**GAS PIPE**

// Series 3 (imperial) // Series 2 (metric) // Quality assured // Yellow // Black/yellow stripe



STORMWATER SEWER **GAS** POTABLE WATER POWER & COMMUNICATION RURAL



## Waters and Farr produce both imperial (series 3) and metric (series 2) PE Gas Pipe in New Zealand.

Gas pipe for reticulation is our longest established market, which we service with both coils and straight lengths. Quality is essential in the provision of gas pipe systems as they must be leak-free in operation for the lifetime of the system.

### DEFINITIONS

#### SDR

- » Standard Dimension Ratio – a nominal ratio of the pipe outside diameter to its wall thickness.

*PE 80B and PE 100 compounds to AS/NZS 4131.*

### ADVANTAGES

Advantages of correctly designed and installed polyethylene pipe systems using Waters & Farr products include:

- » Inert, corrosion free pipe material
- » Low specific weight
- » Low installation and maintenance costs
- » Leak free welded construction
- » Good resistance to impacts, ground movement
- » Excellent toughness and abrasion resistance
- » Flexibility
- » Long design life

### POLYETHYLENE GAS PIPES

SERIES 3 TO  
AS/NZS 4130:2009

DN	Dimensions (Series 3 – Imperial)		SDR 17	SDR 11
	Pipe OD, mm		Mean wall thickness, mm	Mean wall thickness, mm
	min.	max.		
10	15.7	16.0	–	1.7
15	21.4	21.7	–	2.4
25	33.4	33.7	2.4	3.3
32	42.1	42.4	2.4	4.1
40	48.1	48.4	2.8	4.6
50	60.2	60.5	3.8	5.8
80	88.7	89.2	5.5	8.5
100	114.1	114.7	7.1	10.9
150	168.0	168.9	10.4	16.1
200	218.8	219.9	13.7	20.9

**SERIES 3 NOMINAL ID (IMPERIAL) YELLOW PIPE COILS** PE80B W&F SPEC. MDPE

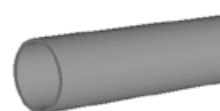
Item Code	Size (ID) mm	Size (IPS), inch	Minimum Wall Thickness mm	Coil Length (m)
G10.11.150	10	3/8" (or 1/2" CTS)	1.6	150
G15.9.150	15	1/2"	2.5	150

**SERIES 3 NOMINAL ID (IMPERIAL) YELLOW PIPE COILS** PE80B SDR11 MDPE

Item Code	Size (ID) mm	Size (IPS), inch	Minimum Wall Thickness mm	Coil Length (m)
G25.11.150	25	1"	3.1	150
G25.11.50	25	1"	3.1	50
G32.11.150	32	1 1/4"	3.9	150
G32.11.50	32	1 1/4"	3.9	50
G50.11.125	50	2"	5.5	125
G50.11.100	50	2"	5.5	100
G50.11.50	50	2"	5.5	50
G80.11.100	80	3"	8.1	100
G100.11.100	100	4"	10.4	100

**SERIES 3 NOMINAL ID (IMPERIAL) YELLOW PIPE LENGTHS** PE80B SDR11 MDPE

Item Code	Size (ID) mm	Size (IPS), inch	Minimum Wall Thickness mm	Coil Length (m)
G50.11.6	50	2"	5.5	6
G50.11.12	50	2"	5.5	12
G80.11.6	80	3"	8.1	6
G80.11.12	80	3"	8.1	12
G100.11.6	100	4"	10.4	6
G100.11.12	100	4"	10.4	12



A full range of imperial gas fittings are also available from Waters & Farr

**SERIES 2 NOMINAL OD BLACK WITH YELLOW STRIPES PIPE COILS**  
PE100 SDR11 HDPE

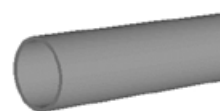
Item Code	Size (OD) mm	Minimum Wall Thickness mm	Coil Length (m)
GMH25.11.200	25	3.0	200
GMH40.11.200	40	3.7	200

**SERIES 2 NOMINAL OD YELLOW PIPE COILS** PE80B SDR17

Item Code	Size (OD) mm	Minimum Wall Thickness mm	Coil Length (m)
GMH63.17.100	63	3.8	100
GMH110.17.100	110	6.6	100
GMH125.17.100	125	7.4	100

**SERIES 2 NOMINAL OD PIPE LENGTHS** SDR17

Item Code	Size (OD) mm	Minimum Wall Thickness mm	Coil Length (m)
GMH110.17.12	110	6.6	12



PE100 Black-Yellow Striped pipes are available on request

## DIMENSIONS (SERIES 2 – METRIC): POLYETHYLENE GAS PIPES <sup>MM</sup>

SERIES 2 TO AS/NZS 4130:2009

Standard Dimension Ratio			SDR 17	SDR 13.6	SDR 11
DN	Pipe outside diameter (OD)		Average wall thickness		
	Min	Max			
20	20.0	20.3	2.6	3.2	3.2
25	25.0	25.3	2.6	3.2	3.2
32	32.0	32.3	2.6	3.2	3.2
40	40.0	40.4	2.6	3.2	4.0
50	50.0	50.5	3.2	4.0	4.9
63	63.0	63.6	4.1	5.0	6.2
75	75.0	75.5	4.8	5.9	7.2
90	90.0	90.6	5.8	7.0	8.7
110	110.0	110.7	7.0	8.6	10.6
125	125.0	125.8	7.9	9.8	12.1
140	140.0	140.9	8.8	10.9	13.4
160	160.0	161.0	10.1	12.5	15.4
180	180.0	181.1	11.3	14.1	17.3
200	200.0	201.2	12.6	15.5	19.2
225	225.0	226.4	14.2	17.5	21.6
250	250.0	251.5	15.6	19.4	23.9
280	280.0	282.6	17.5	21.7	26.8
315	315.0	317.9	19.7	24.5	30.1
355	355.0	358.2	22.3	27.5	34.0
400	400.0	403.6	25.0	31.0	38.3
450	450.0	454.1	28.1	34.9	43.1

### Waters & Farr

PO Box 13329

Onehunga

Auckland, New Zealand

P 0800 4 PIPES (474 737)

F +64 9 622 4037

Information or advice contained in these guidelines or obtained from Waters & Farr otherwise is given in good faith. Waters & Farr make no warranty or representation regarding the information, opinions and recommendations contained in the guidelines. Users of the guidelines are advised to seek and rely upon their own professional advice and assessment of the matters contained in the guidelines. Waters & Farr excludes all liability to any user of the guidelines for consequential or indirect damages, or any other form of compensation or relief whatsoever for any acts or omissions of Waters & Farr, arising out of or in connection with the use of the guidelines irrespective of whether the same arises at law, inequity or otherwise.

27 May 2013

[www.watersandfarr.co.nz](http://www.watersandfarr.co.nz)

