

HDPE Gas Line

Model: SD-PEPG

SHIELD manufactures PE pipes for GAS service as per ISO 4437 & BS EN 1555 standards which undergo rigorous quality checks throughout the entire production process to ensure their reliability and effectiveness for gas transportation. The preferred series of pipes are SDR 11 and SDR 17 for gas applications.



Product Specifications:

Available Size	20mm - 630mm
Material	High Density Polyethylene, Medium Density Polyethylene
Standard	ISO 4437 & BS EN 1555
Jointing	Butt-Fusion, Electro-Fusion
Coils	50m and 100m up to 160mm size
Application	Gas
Approvals/Listings	 BUREAU VERITAS

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Product Dimensions:

HDPE SD-PEPG (ISO 4437 & BS EN 1555)

Nominal Outside Diameter	PE 100 - MRS 10 MPa		PE 80 - MRS 8 MPa	
	SDR 17 PN 6.25	SDR 11 PN 10	SDR 17 PN 5	SDR 11 PN 8
	Wall Thickness		Wall Thickness	
mm	mm		mm	
20	-	2.3 - 2.7	-	2.3 - 2.7
25	-	2.3 - 2.7	-	2.3 - 2.7
32	2.3 - 2.7	3.0 - 3.5	2.3 - 2.7	3.0 - 3.5
40	2.4 - 2.8	3.7 - 4.2	2.4 - 2.8	3.7 - 4.2
50	3.0 - 3.5	4.6 - 5.2	3.0 - 3.5	4.6 - 5.2
63	3.8 - 4.3	5.8 - 6.5	3.8 - 4.3	5.8 - 6.5
75	4.5 - 5.1	6.8 - 7.6	4.5 - 5.1	6.8 - 7.6
90	5.4 - 6.1	8.2 - 9.2	5.4 - 6.1	8.2 - 9.2
110	6.6 - 7.4	10.0 - 11.1	6.6 - 7.4	10.0 - 11.1
125	7.4 - 8.3	11.4 - 12.7	7.4 - 8.3	11.4 - 12.7
140	8.3 - 9.3	12.7 - 14.1	8.3 - 9.3	12.7 - 14.1
160	9.5 - 10.6	14.6 - 16.2	9.5 - 10.6	14.6 - 16.2
180	10.7 - 11.9	16.4 - 18.2	10.7 - 11.9	16.4 - 18.2
200	11.9 - 13.2	18.2 - 20.2	11.9 - 13.2	18.2 - 20.2
225	13.4 - 14.9	20.5 - 22.7	13.4 - 14.9	20.5 - 22.7
250	14.8 - 16.4	22.7 - 25.1	14.8 - 16.4	22.7 - 25.1
280	16.6 - 18.4	25.4 - 28.1	16.6 - 18.4	25.4 - 28.1
315	18.7 - 20.7	28.6 - 31.6	18.7 - 20.7	28.6 - 31.6
355	21.1 - 23.4	32.2 - 35.6	21.1 - 23.4	32.2 - 35.6
400	23.7 - 26.2	36.4 - 40.1	23.7 - 26.2	36.4 - 40.1
450	26.7 - 29.5	40.9 - 45.1	26.7 - 29.5	40.9 - 45.1
500	29.7 - 32.8	45.5 - 50.1	29.7 - 32.8	45.5 - 50.1
560	33.2 - 36.7	50.9 - 56.1	33.2 - 36.7	50.9 - 56.1
630	37.4 - 41.3	57.3 - 63.2	37.4 - 41.3	57.3 - 63.2

NOTE:

- ▶ SDR 11 & SDR 17 are the series commonly used for gas applications.
- ▶ Other SDRs are also available upon request.
- ▶ Outer diameter & Wall thickness is according to ISO 11922-1.
- ▶ For applications above 20 Deg C – suitable de-rating factors apply.
- ▶ PE 100 Minimum Required Strength (MRS) is 10 Mpa.
- ▶ PE 80 Minimum Required Strength (MRS) is 8 Mpa.
- ▶ All dimensions for BS EN 1555 are same as ISO 4437 except for 20 & 25 mm (min 3mm Wall Thickness for SDR 11).

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Miscellaneous Data:

1. Ordering Information

Example: SD-PEPG-1-50

- SD-PEPG is the part number
- (1) HDPE (2) MDPE
- (50) Size

2. Contact Information

For further information on any aspect of the SHIELD HDPE products please contact below:

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