

Segmented Fittings

45° Elbow (SD-PES45E)

SHIELD Fittings are available in segmented. They are manufactured as per ISO and ANSI/AWWA standard which are UL, FM, WRAS and API approved, applicable for fire fighting & Water Applications.



Product Specifications:

Available Size	90mm - 900mm, 4" - 42"
Material	High Density Polyethylene
Standard	ISO 4427, ANSI/AWWA C906, API 15LE
Application	Firefighting (underground), Irrigation, Potable Water, Drainage, Gas Insulation/Sleeves/Jacket, Horizontal Directional Drilling Machine
Approvals/Listings	UL LISTED FM APPROVED WRAS Water Regulations Advisory Scheme API Q

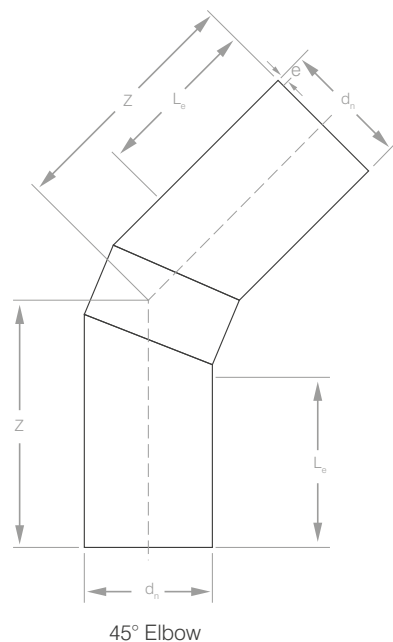
Segmented Fittings

(Metric)

Product Dimensions:

SD-PES45E (ISO 4427) (PE 100 - 3 Segmented, Long spigot version)

d _n	L _e	Z	e			
			SDR 17 PN10 mm	SDR 11 PN16 mm	SDR 9 PN20 mm	SDR 7.4 PN25 mm
mm	Min mm	Min mm				
90	150	220	5.4 - 6.1	8.2 - 9.2	10.1 - 11.1	12.3 - 13.7
110	150	225	6.6 - 7.4	10.0 - 11.1	12.3 - 13.7	15.1 - 16.8
125	150	228	7.4 - 8.3	11.4 - 12.7	14.0 - 15.6	17.1 - 19.0
160	150	249	9.5 - 10.6	14.6 - 16.2	17.9 - 19.8	21.9 - 24.2
180	150	262	10.7 - 11.9	16.4 - 18.2	20.1 - 22.3	24.6 - 27.2
200	150	274	11.9 - 13.2	18.2 - 20.2	22.4 - 24.8	27.4 - 30.3
225	150	290	13.4 - 14.9	20.5 - 22.7	25.2 - 27.9	30.8 - 34.0
250	250	412	14.8 - 16.4	22.7 - 25.1	27.9 - 30.8	34.2 - 37.8
280	250	448	16.6 - 18.4	25.4 - 28.1	31.3 - 34.6	38.3 - 42.3
315	300	504	18.7 - 20.7	28.6 - 31.6	35.2 - 38.9	43.1 - 47.6
355	300	568	21.1 - 23.4	32.2 - 35.6	39.7 - 43.8	48.5 - 53.5
400	300	640	23.7 - 26.2	36.3 - 40.1	44.7 - 49.3	54.7 - 60.3
450	300	720	26.7 - 29.5	40.9 - 45.1	50.3 - 55.5	61.5 - 67.8
500	350	800	29.7 - 32.8	45.4 - 50.1	55.8 - 61.5	68.2 - 75.4
560	350	848	34.3 - 37.8	50.8 - 56.0	62.5 - 68.9	-
630	350	1008	37.4 - 41.3	57.2 - 63.1	70.3 - 77.5	-
710	400	675	42.1 - 46.5	64.5 - 71.1	79.3 - 87.4	-
800	400	720	47.4 - 52.3	72.6 - 80.0	89.3 - 98.4	-
900	400	775	53.3 - 58.8	81.7 - 90.0	-	-



NOTE:

- ▶ e = Thickness at the end.
- ▶ Refer to FM & WRAS certificates for more details.
- ▶ Other SDRs are also available upon request.

Segmented Fittings

(Imperial)

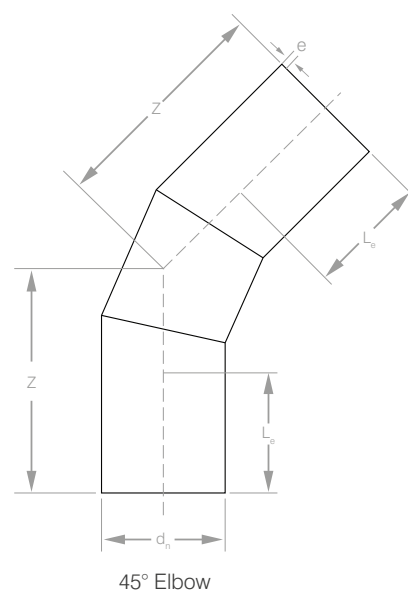
Miscellaneous Data:

SD-PES45E (ANSI/AWWA C906) (PE 100/PE 3 - 4710 Segments, Long spigot version)

d _n	L _e	Z	e			
			DR 11	DR 9	DR 7.3	DR 7
			PC200	PC250	PC317	PC335
Inch	Min Inch	Min Inch	Inch	Inch	Inch	Inch
4	5.91	9.45	0.409 - 0.458	0.500 - 0.560	0.625 - 0.700	0.643 - 0.720
6	7.87	11.02	0.602 - 0.674	0.736 - 0.825	0.920 - 1.031	0.946 - 1.060
8	9.84	12.80	0.784 - 0.878	0.958 - 1.073	1.198 - 1.342	1.228 - 1.376
10	11.81	13.78	0.977 - 1.094	1.194 - 1.337	1.473 - 1.650	1.536 - 1.720
12	11.81	17.64	1.159 - 1.298	1.417 - 1.587	1.747 - 1.957	1.821 - 2.039
14	11.81	19.84	1.273 - 1.426	1.556 - 1.743	1.918 - 2.148	2.000 - 2.240
16	11.81	22.36	1.455 - 1.630	1.778 - 1.992	2.192 - 2.455	2.286 - 2.560
18	11.81	25.20	1.636 - 1.832	2.00 - 2.240	2.466 - 2.762	2.571 - 2.879
20	11.81	28.35	1.818 - 2.036	2.222 - 2.489	2.740 - 3.069	2.857 - 3.200
22	13.78	24.53	2.000 - 2.240	2.444 - 2.737	3.014 - 3.376	3.143 - 3.520
24	13.78	25.71	2.182 - 2.444	2.667 - 2.987	3.288 - 3.683	3.429 - 3.841
26	13.78	26.89	2.364 - 2.648	2.889 - 3.236	3.562 - 3.989	3.714 - 4.160
28	13.78	28.11	2.545 - 2.850	3.111 - 3.484	3.836 - 4.296	-
30	15.75	30.91	2.727 - 3.054	3.333 - 3.733	-	-
32	15.75	32.09	2.909 - 3.258	3.556 - 3.983	-	-
34	15.75	33.35	3.091 - 3.462	3.778 - 4.231	-	-
36	15.75	34.57	3.273 - 3.666	-	-	-
42	19.69	41.34	3.818 - 4.276	-	-	-

NOTE:

- ▶ The tolerance limit for the angle (α) will be ±2°.
- ▶ e = Thickness at the end.
- ▶ Refer to FM & WRAS certificates for more information.



Segmented Fittings

Miscellaneous Data:

1. Ordering Information

Example: SD-PES90E-1-40

- SD-PES90E is the part number
- (1) ISO 4427 (2) ANSI/AWWA C906 (3) API 15LE
- (40) Size

2. Contact Information

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

MIDDLE EAST & AFRICA	UNITED KINGDOM
Jebel Ali Free Zone, Dubai, UAE P.O Box: 61199 Tel.: +971 4 881 2070 Fax: +971 4 881 2198 Email: shieldme@shielglobal.com	Unit 3, Endeavor Drive, Basildon-Essex, SS3 14WF Tel.: +44 1708 377731 Fax: +44 1708347637 Email: shielduk@shielglobal.com