

ISO Size and Dimension Data

Henan Bingo Pipeline ISO HDPE Series

Pressure Ratings are calculated using a 1,25 design coefficient (C) for MRS at 20°C as listed in PPI TR-4 for PE 100 materials. Pressure ratings are based on water applications. Temperature, Chemical, and Environmental use considerations may require use of additional design coefficients.

ISO 4427 Pipe Series		S 3.2			S 4			S 5			S 6,3			Nominal Size DN (mm)
ASTM F714 DR		DR 7.4			DR 9			DR 11			DR 13.6			
Nominal Pressure PE		PN = 25 bar			PN = 20 bar			PN = 16 bar			PN = 12,5 bar			
Nominal Size DN (mm)	Equiv Size (in)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	
20	0.79	3.0	13.6	0.17	2.3	15.12	0.14	2.0	15.76	0.12	1.5	16.88	0.09	20
25	0.98	3.5	17.60	0.25	3.0	18.64	0.22	2.3	20.12	0.17	2.0	20.76	0.15	25
32	1.26	4.4	22.70	0.40	3.6	24.37	0.34	3.0	25.64	0.29	2.4	26.91	0.24	32
40	1.57	5.5	28.30	0.63	4.5	30.46	0.53	3.7	32.16	0.45	3.0	33.64	0.37	40
50	1.97	6.9	35.40	0.99	5.6	38.13	0.83	4.6	40.25	0.69	3.7	42.16	0.57	50
63	2.48	8.6	44.80	1.56	7.1	47.95	1.32	5.8	50.70	1.10	4.7	53.04	0.91	63
75	2.95	10.3	53.20	2.22	8.4	57.19	1.86	6.8	60.58	1.54	5.6	63.13	1.29	75
90	3.54	12.3	63.90	3.18	10.1	68.59	2.68	8.2	72.62	2.23	6.7	75.80	1.86	90
110	4.33	15.1	78.00	4.76	12.3	83.92	4.00	10.0	88.80	3.33	8.1	92.83	2.74	110
125	4.92	17.1	88.70	6.14	14.0	95.32	5.17	11.4	100.83	4.31	9.2	105.50	3.54	125
140	5.51	19.2	99.30	7.71	15.7	106.72	6.49	12.7	113.08	5.38	10.3	118.16	4.44	140
160	6.30	21.9	113.60	10.06	17.9	122.05	8.46	14.6	129.05	7.06	11.8	134.98	5.81	160
180	7.09	24.6	127.80	12.71	20.1	137.39	10.69	16.4	145.23	8.92	13.3	151.80	7.37	180
200	7.87	27.4	141.90	15.72	22.4	152.51	13.23	18.2	161.42	11.00	14.7	168.84	9.06	200
225	8.86	30.8	159.70	19.89	25.2	171.58	16.74	20.5	181.54	13.94	16.6	189.81	11.50	225
250	9.84	34.2	177.50	24.54	27.9	190.85	20.60	22.7	201.88	17.16	18.4	210.99	14.17	250
280	11.02	38.3	198.80	30.78	31.3	213.64	25.88	25.4	226.15	21.50	20.6	236.33	17.77	280
315	12.40	43.1	223.60	38.97	35.2	240.38	32.75	28.6	254.37	27.24	23.2	265.82	22.51	315
355	13.98	48.5	252.20	49.43	39.7	270.84	41.62	32.2	286.74	34.56	26.1	299.67	28.54	355
400	15.75	54.7	284.00	62.80	44.7	305.24	52.81	36.3	323.04	43.90	29.4	337.67	36.23	400
450	17.72	61.5	319.60	79.44	50.3	343.36	66.85	40.9	363.29	55.64	33.1	379.83	45.88	450
500	19.69	67.6	356.70	97.19	55.8	381.70	82.42	45.4	403.75	68.63	36.8	421.98	56.68	500
560	22.05	75.7	399.50	121.90	62.5	427.50	103.39	50.8	452.30	86.01	41.2	472.66	71.07	560
630	24.80	85.1	449.60	154.19	70.3	480.96	130.83	57.2	508.74	108.94	46.3	531.84	89.86	630
710	27.95	95.9	506.70	195.82	79.3	541.88	166.30	64.5	573.26	138.44	52.2	599.34	114.17	710
800	31.50				89.3	610.68	211.03	72.6	646.09	175.59	58.8	675.34	144.91	800
900	35.43							81.7	726.80	222.30	66.2	759.66	183.53	900
1000	39.37							90.2	808.78	272.87	72.5	846.30	223.59	1000
1200	47.24										88.2	1013.02	326.06	1200
1400	55.12										102.9	1181.85	443.80	1400

This product flyer is intended for reference purposes. It should not be used in place of the advice from a licensed Professional Engineer. Nominal pressure (PN) is based on C = 1,25 and an operating temperature of 20°C. Weight is calculated using DN and Minimum wall plus 6% for use in estimating fluid flow. Actual ID will vary. When designing components to fit the pipe ID, refer to pipe dimensions and tolerances in the applicable pipe manufacturing specification. To obtain pressure in psi, multiply bar by 14.5 (1 bar ≈ 14.5 psi). Additional information is available at www.bingopipes.com.

ISO Size and Dimension Data

Henan Bingo Pipeline ISO HDPE Series

Pressure Ratings are calculated using a 1,25 design coefficient (C) for MRS at 20°C as listed in PPI TR-4 for PE 100 materials. Pressure ratings are based on water applications. Temperature, Chemical, and Environmental use considerations may require use of additional design coefficients.

ISO 4427 Pipe Series		S 8			S 10			S 12,5			S 16			Nominal Size DN (mm)
ASTM F714 DR		DR 17			DR 21			DR 26			DR 33			
Nominal Pressure PE		PN = 10 bar			PN = 8 bar			PN = 6 bar			PN = 5 bar			
Nominal Size DN (mm)	Equiv Size (in)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	
20	0.79	1.2	17.51	0.07	1.0	17.98	0.06	0.6	18.72	0.04	0.61	18.72	0.04	20
25	0.98	1.5	21.88	0.12	1.2	22.48	0.09	0.8	23.39	0.06	0.76	23.39	0.06	25
32	1.26	2.0	27.76	0.20	1.5	28.77	0.15	1.0	29.94	0.10	0.97	29.94	0.10	32
40	1.57	2.4	34.91	0.30	2.0	35.76	0.25	1.2	37.43	0.16	1.21	37.43	0.16	40
50	1.97	3.0	43.64	0.47	2.4	44.91	0.38	2.0	45.76	0.32	1.52	46.79	0.24	50
63	2.48	3.8	54.94	0.75	3.0	56.64	0.60	2.5	57.70	0.50	1.91	58.95	0.39	63
75	2.95	4.5	65.46	1.05	3.6	67.37	0.85	2.9	68.85	0.70	2.27	70.18	0.55	75
90	3.54	5.4	78.55	1.52	4.3	80.88	1.23	3.5	82.58	1.01	2.73	84.22	0.79	90
110	4.33	6.6	96.01	2.27	5.3	98.76	1.85	4.2	101.10	1.48	3.33	102.93	1.18	110
125	4.92	7.4	109.31	2.89	6.0	112.28	2.37	4.8	114.82	1.92	3.79	116.97	1.53	125
140	5.51	8.3	122.40	3.63	6.7	125.80	2.97	5.4	128.55	2.42	4.24	131.01	1.92	140
160	6.30	9.5	139.86	4.75	7.7	143.68	3.90	6.2	146.86	3.17	4.85	149.72	2.50	160
180	7.09	10.7	157.32	6.02	8.6	161.77	4.90	6.9	165.37	3.97	5.45	168.44	3.17	180
200	7.87	11.9	174.77	7.44	9.6	179.65	6.08	7.7	183.68	4.92	6.06	187.15	3.91	200
225	8.86	13.4	196.59	9.43	10.8	202.10	7.69	8.6	206.77	6.19	6.82	210.55	4.95	225
250	9.84	14.8	218.62	11.57	11.9	224.77	9.42	9.6	229.65	7.67	7.58	233.94	6.11	250
280	11.02	16.6	244.81	14.54	13.4	251.59	11.88	10.7	257.32	9.58	8.48	262.01	7.66	280
315	12.40	18.7	275.36	18.42	15.0	283.20	14.96	12.1	289.35	12.19	9.70	294.44	9.85	315
355	13.98	21.1	310.27	23.43	16.9	319.17	19.00	13.6	326.17	15.44	10.90	331.89	12.47	355
400	15.75	23.7	349.76	29.65	19.1	359.51	24.19	15.3	367.56	19.57	12.30	373.92	15.86	400
450	17.72	26.7	393.40	37.58	21.5	404.42	30.63	17.2	413.54	24.75	13.80	420.74	20.02	450
500	19.69	29.7	437.04	46.44	23.9	449.33	37.84	19.1	459.51	30.54	15.30	467.56	24.66	500
560	22.05	33.2	489.62	58.15	26.7	503.40	47.35	21.4	514.63	38.32	17.20	523.54	31.04	560
630	24.80	37.4	550.71	73.69	30.0	566.40	59.85	24.1	578.91	48.55	19.30	589.08	39.19	630
710	27.95	42.1	620.75	93.50	33.9	638.13	76.21	27.2	652.34	61.75	21.80	663.78	49.88	710
800	31.50	47.4	699.51	118.62	38.1	719.23	96.52	30.6	735.13	78.28	24.50	748.06	63.18	800
900	35.43	53.3	787.00	150.06	42.9	809.05	122.26	34.4	827.07	99.01	27.60	841.49	80.06	900
1000	39.37	59.3	874.28	185.48	47.7	898.88	151.04	38.2	919.02	122.16	30.60	935.13	98.63	1000
1200	47.24	67.9	1056.05	255.60	57.2	1078.74	217.35	45.9	1102.69	176.14	36.70	1122.20	141.96	1200
1400	55.12	82.4	1225.31	361.00	66.7	1258.60	295.70	53.5	1286.58	239.53	42.90	1309.05	193.58	1400

This product flyer is intended for reference purposes. It should not be used in place of the advice from a licensed Professional Engineer. Nominal pressure (PN) is based on C = 1,25 and an operating temperature of 20°C. Weight is calculated using DN and Minimum wall plus 6% for use in estimating fluid flow. Actual ID will vary. When designing components to fit the pipe ID, refer to pipe dimensions and tolerances in the applicable pipe manufacturing specification. To obtain pressure in psi, multiply bar by 14.5 (1 bar ≈ 14.5 psi). Additional information is available at www.bingopipes.com.