

TECHNICAL DESCRIPTION

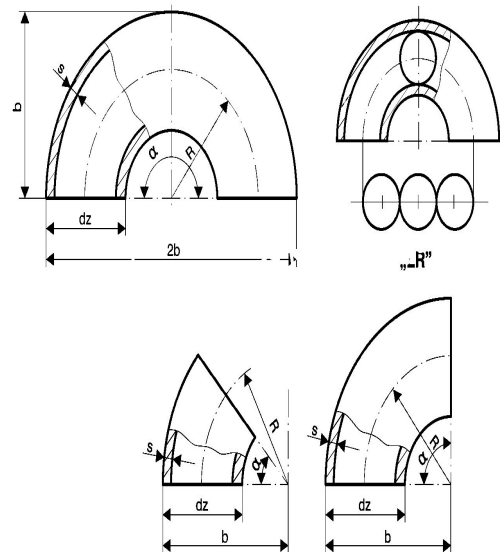
Elbows are connecting elements with a specific bending radius that are used to connect pipes of the same diameter.

Knee bending radius:

- short radius „SR“
- long radius „LR“

The elbows can be made 45°, 90°, 180°.

Dimensions: Ø 33.4 - 610.0



No.	DETAILS	MATERIALS	SPECIFICATION	
1	Knee	steel P265GH / A234 Gr. WPB	Standard	DIN 2605-1/Type A
		other steels - on request		
		stainless steels - upon request		

SEAMLESS STEEL ELBOWS BW ANSI B16.9 LR

Material steel P265GH , A234WPB

Size	pipe Ø		R	b	Wall thickness (mm)													
					SCH 20		SCH 30		SCH STD		SCH 40		SCH 60		XS		SCH 80	
					s	kg	s	kg	s	kg	s	kg	s	kg	s	kg	s	kg
1"	33.4	90°	38	56	-	-	-	-	3.38	0.15	3.38	0.15	-	-	4.55	0.19	4.55	0.19
		45°	-	-	-	-	-	-	3.38	0.08	3.38	0.08	-	-	4.55	0.10	4.55	0.10
1 1/4"	42.2	90°	48	70	-	-	-	-	3.56	0.26	3.56	0.26	-	-	4.85	0.34	4.85	0.34
		45°	-	-	-	-	-	-	3.56	0.13	3.56	0.13	-	-	4.85	0.17	4.85	0.17
1 1/2"	48.3	90°	57	83	-	-	-	-	3.68	0.38	3.68	0.38	-	-	5.08	0.48	5.08	0.48
		45°	-	-	-	-	-	-	3.68	0.19	3.68	0.19	-	-	5.08	0.24	5.08	0.24
2"	60.3	90°	76	106	-	-	-	-	3.91	0.68	3.91	0.68	-	-	5.54	0.90	5.54	0.90
		45°	-	-	-	-	-	-	3.91	0.34	3.91	0.34	-	-	5.54	0.45	5.54	0.45
2 1/2"	73.1	90°	95	132	-	-	-	-	5.16	1.30	5.16	1.30	-	-	7.01	1.78	7.01	1.78
		45°	-	-	-	-	-	-	5.16	0.65	5.16	0.65	-	-	7.01	0.90	7.01	0.90
3"	88.9	90°	114	159	-	-	-	-	5.49	2.08	5.49	2.08	-	-	7.62	2.78	7.62	2.78
		45°	-	-	-	-	-	-	5.49	1.05	5.49	1.05	-	-	7.62	1.40	7.62	1.40
3 1/2"	101.6	90°	133	184	-	-	-	-	5.74	2.92	5.74	2.92	-	-	8.08	3.96	8.08	3.96
		45°	-	-	-	-	-	-	5.74	1.46	5.74	1.46	-	-	8.08	2.00	8.08	2.00
4"	114.3	90°	152	210	-	-	-	-	6.02	3.90	6.02	3.90	-	-	8.56	5.46	8.56	5.46
		45°	-	-	-	-	-	-	6.02	1.95	6.02	1.95	-	-	8.56	2.73	8.56	2.73
5"	141.3	90°	190	262	-	-	-	-	6.55	6.67	6.55	6.67	-	-	9.53	(9.34 ^	9.53	9.34
		45°	-	-	-	-	-	-	6.55	3.34	6.55	3.34	-	-	9.53	4.67 ^	9.53	4.67
6"	168.3	90°	229	313	-	-	-	-	7.11	10.4	7.11	10.40	-	-	10.97	15.50	10.97	15.50
		45°	-	-	-	-	-	-	7.11	5.20	7.11	5.20	-	-	10.97	7.75	10.97	7.75
8"	219.1	90°	305	414	6.35	16.74	7.04	18.50	8.18	20.90	8.18	20.90	10.31	25.42	12.70	31.30	12.70	31.30
		45°	-	-	6.35	8.37	7.04	9.25	8.18	10.45	8.18	10.45	10.31	12.70	12.70	15.70	12.70	15.70
10"	273	90°	381	518	6.35	26.22	7.80	32.04	9.27	37.00	9.27	37.00	12.70	49.40	12.70	49.40	15.09	60.31
		45°	-	-	6.35	13.11	7.80	16.02	9.27	18.50	9.27	18.50	12.70	24.70	12.70	24.70	15.09	30.16
12"	323.8	90°	457	619	6.35	37.46	8.38	49.12	9.53	54.00	10.31	60.07	14.27	82.26	12.70	71.20	17.48	99.36
		45°	-	-	6.35	18.73	8.38	24.56	9.53	27.00	10.31	30.04	14.27	41.13	12.70	35.60	17.48	49.68
14"	355.6	90°	533	711	7.92	59.70	9.53	69.80	9.53	69.80	11.13	83.06	15.09	111.49	12.70	91.60	19.05	138.68
		45°	-	-	7.92	29.85	9.53	34.70	9.53	34.70	11.13	41.53	15.09	55.75	12.70	45.80	19.05	69.34
16"	406.4	90°	607	813	7.92	78.20	9.53	91.20	9.53	91.20	12.70	120.2	16.60	161.29	12.70	120.2	21.44	204.17
		45°	-	-	7.92	39.10	9.53	45.60	9.53	45.60	12.70	60.10	16.60	80.65	12.70	60.10	21.44	102.09
18"	457	90°	683	914	7.92	99.20	11.13	138.29	9.53	116.1	14.27	176.21	19.05	232.70	12.70	153.3	23.83	287.57
		45°	-	-	7.92	49.60	11.13	69.15	9.53	58.10	14.27	88.11	19.05	116.35	12.70	76.20	23.83	143.79
20"	508	90°	759	1116	9.53	143.8	12.70	190.10	9.53	143.8	15.09	229.96	20.62	311.02	12.70	190.1	26.19	391.03
		45°	-	-	9.53	71.70	12.70	95.10	9.53	71.70	15.09	114.98	20.62	155.51	12.70	95.10	26.19	195.52

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Material steel P265GH , A234WPB

					Wall thickness (mm)													
Size	pipe Ø		R	b	SCH 20		SCH 30		SCH STD		SCH 40		SCH 60		XS		SCH 80	
					s	kg	s	kg	s	kg	s	kg	s	kg	s	kg	s	kg
24"	610	90°	911	1219	-	-	-	-	9.53	208	-	-	-	-	12.70	275	30.96	664.80
		45°	-	-	-	-	-	-	9.53	104	-	-	-	-	12.70	137	30.96	332.40