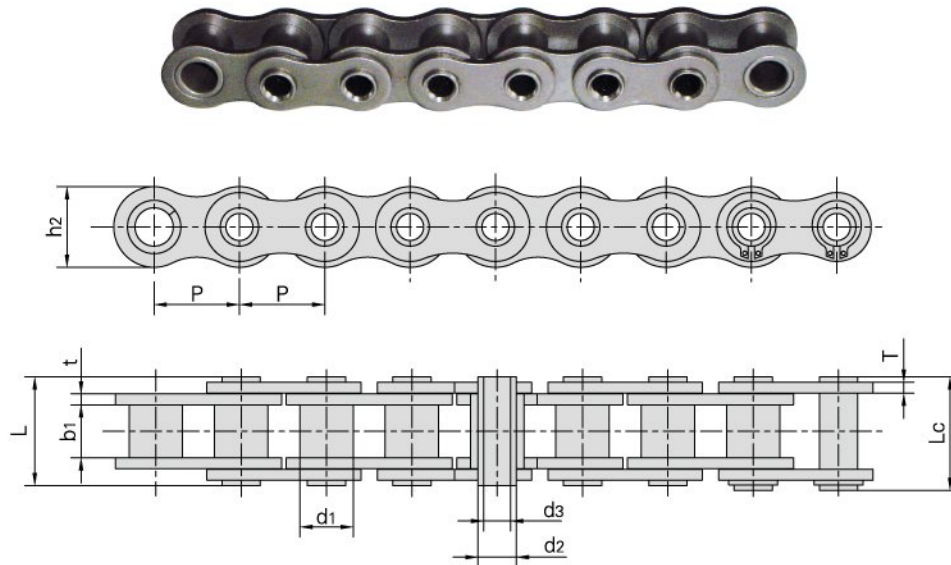
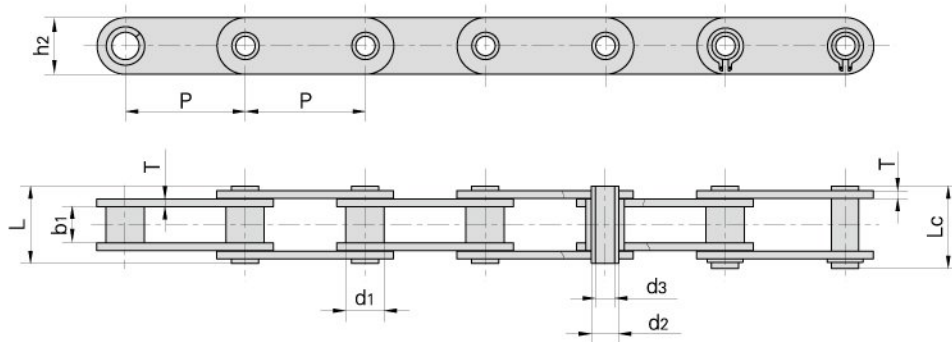


## Hollow pin chains



Chain No.	Pitch	Bush diameter	Width between inner plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P	d1 max	b1 min	d2 max	d3 min	L max	Lc max	h2 max	t/T max	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
08BHPF	12.700	8.51	7.75	6.55	4.50	16.4	17.6	11.80	1.6/1.3	11.1/2523	12.1	0.56
08BHPF5	12.700	8.51	7.75	6.30	4.50	16.8	18.0	12.00	1.60	9.6/2182	10.6	0.62
10BHPF3	15.875	10.16	9.65	7.02	5.13	19.5	20.5	14.70	1.70	10.0/2272	11.5	0.86
10BHPF4	15.875	10.16	9.50	7.20	5.00	19.8	21.3	14.00	2.03/1.6	12.5/2840	14.0	0.82
12BHPF2	19.050	12.07	11.68	8.09	6.00	22.7	23.9	16.10	1.85	14.0/3180	16.0	0.82
12BHPF3	19.050	12.07	11.70	8.22	5.75	23.6	24.9	16.20	2.42/1.85	16.0/3636	18.0	1.14
16BHPF3	25.400	15.88	17.02	11.50	8.20	35.3	37.0	23.20	4.0/3.1	49.0/11136	52.2	2.26
16BHPF4	25.400	11.70	13.50	8.00	4.30	28.9	30.2	21.30	3.00	30.0/6818	33.0	1.81
40HP	12.700	7.95	7.85	5.63	4.00	16.5	17.6	12.00	1.50	11.0/2500	12.2	0.54
08BHPF7	12.700	8.51	9.20	6.55	4.10	17.8	19.0	11.80	1.60	11.1/2523	12.1	0.64
08BHP	12.700	8.51	7.75	6.55	4.50	16.4	17.6	11.80	1.30	11.1/2523	12.1	0.52
50HP	15.875	10.16	9.40	7.03	5.13	20.7	21.9	15.09	2.03	20.0/4545	22.6	0.91
50HPF4	15.875	10.16	8.80	7.03	5.13	19.9	21.1	15.09	2.03	18.0/4180	19.2	0.89
50HP-HP	15.875	10.16	9.40	7.03	5.13	22.6	23.7	15.09	2.42	20.0/4545	22.6	1.02
60HP	19.050	11.91	12.70	8.31	6.00	25.8	26.8	18.00	2.42	24.0/5455	26.9	1.29
60HPF1	19.050	11.91	12.70	8.31	5.01	25.5	26.8	18.00	2.42	28.0/6364	30.9	1.37
80HP	25.400	15.88	15.75	11.40	8.05	32.5	33.8	24.00	3.25	50.0/11364	52.0	2.26
80HPF1	25.400	11.70	13.50	7.80	4.00	27.0	28.4	21.50	2.42	27.44/6236	29.3	1.50
80HPF2	25.400	15.88	15.75	11.40	8.40	32.5	33.8	24.00	3.25	45.0/10227	48.0	2.23
80H-HP	25.400	15.88	15.75	11.40	8.05	35.7	37.0	24.00	4.00	50.0/11364	52.0	2.63
80HPF3	25.400	15.88	15.88	11.40	7.96	32.4	33.8	23.24	3.25	50.0/11364	52.0	2.26
80HPF4	25.400	11.70	13.50	7.80	4.10	29.0	30.5	21.50	3.00	40.0/9091	43.2	1.77
HB41.75F5	41.750	17.11	19.90	14.11	10.30	39.0	40.4	25.26	4.00	49.0/11136	53.9	2.11
A2080HP	50.800	15.88	15.75	11.40	8.05	32.4	33.8	24.00	3.25	42.3/9615	46.1	1.60

## Hollow pin chains



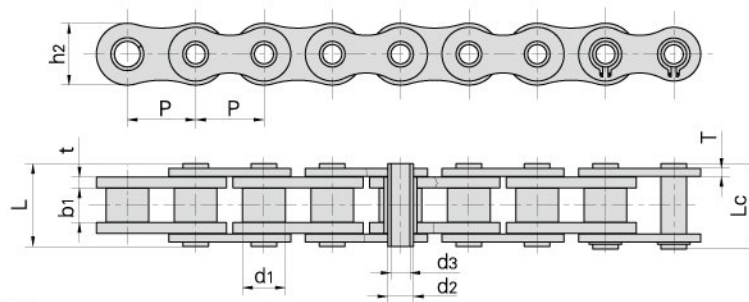
Chain No.	Pitch	Bush diameter	Width between inner plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P	d1 max	b1 min	d2 max	d3 min	L max	Lc max	h2 max	T max	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
C2040HP	25.400	7.95	7.85	5.63	4.00	16.5	17.6	12.00	1.50	11.0/2500	12.6	0.46
C2040HPF1	25.400	7.95	7.85	5.63	M4	16.5	17.6	12.00	1.50	9.0/2045	9.9	0.44
C2050HP	31.750	10.16	9.40	7.22	5.12	20.5	21.8	15.00	2.03	20.4/4636	22.8	0.76
C2060HP	38.100	11.91	12.70	8.31	6.00	25.8	26.8	17.00	2.42	24.0/5455	27.1	1.02
HP40F1	40.000	18.00	22.00	12.00	8.00	47.5	48.2	35.00	5.00	57.0/13049	63.8	5.38
HP40F2	40.000	18.00	22.00	12.00	8.20	47.5	48.2	35.00	5.00	57.0/13049	63.0	5.37
C2080HP	50.800	15.88	15.75	11.40	8.05	32.5	33.8	24.00	3.25	50.0/11364	52.0	1.81
HP50F1	50.000	26.00	14.50	20.00	14.70	35.3	36.2	40.00	3.10	30.0/6818	33.6	3.98
C40HP	12.700	7.95	7.85	5.63	4.00	16.5	17.6	12.00	1.50	11.0/2500	12.2	0.64
C50HP	15.875	10.16	9.40	7.03	5.13	20.7	21.9	15.09	2.03	20.0/4545	22.6	1.05
C60HP	19.050	11.91	12.70	8.31	6.00	25.8	26.8	18.00	2.42	24.0/5455	26.9	1.52
C80HP	25.400	15.88	15.75	11.40	8.05	32.5	33.8	24.00	3.25	50.0/11364	52.0	2.63
C08BHP	12.700	8.51	7.75	6.55	4.50	16.4	17.6	11.80	1.6/1.3	11.0/2500	11.5	0.62
HP12.5	12.500	8.51	8.20	6.65	4.50	16.4	17.6	11.60	1.5/1.3	8.0/1819	8.8	0.61
HP50F7	50.000	18.00	15.00	14.00	10.20	36.0	37.5	26.00	4.00	40/9091	43.2	2.56
HP50F10	50.000	18.00	22.00	12.10	8.30	39.5	40.6	30.00	3.00	45/10227	48.0	2.73
HB55	55.000	18.00	22.00	14.00	10.00	43.4	44.5	30.00	4.00	50/11364	52.0	3.31
HB55F1	55.000	24.00	24.00	17.00	12.00	52.0	53.5	40.00	5.00	90/20455	100.0	6.34
HB38.1F8	38.100	10.16	9.65	7.10	5.40	20.4		16.00	2.03	13/2954	14.3	0.67
C2060H-HP	38.100	11.91	12.70	6.00	8.31	29.2	30.2	17.0	3.25	24/5455	27.1	1.29



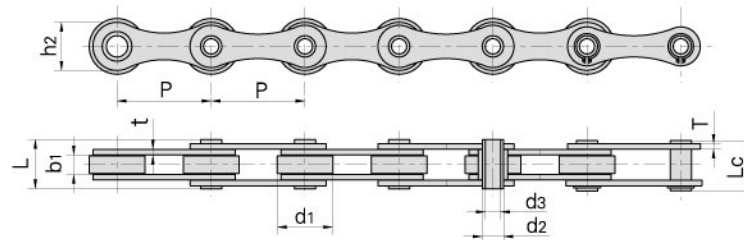
## Hollow pin chains



Type A



Type B

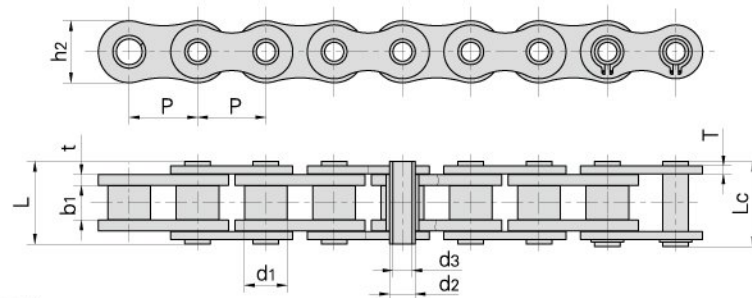


Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter	Type
	P	d <sub>1</sub> max	b <sub>1</sub> min	d <sub>2</sub> max	d <sub>3</sub> min	L max	L <sub>c</sub> max	h <sub>2</sub> max	t / T max	Q min	Q <sub>0</sub>	q	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m	
10BHB	15.875	10.16	9.65	5.94	4.04	19.30	20.60	14.70	1.70	17.00/3864	20.80	0.86	A
12BHP	19.050	12.07	11.68	6.50	4.00	21.60	22.80	15.90	1.85	23.60/5364	25.90	1.09	A
60HB	19.050	11.91	12.70	7.00	5.01	25.50	26.60	18.00	2.42	20.00/4545	22.40	1.35	A
16BHBFB1	25.400	15.88	12.70	9.53	7.05	30.80	32.20	23.00	4.15/3.1	40.00/9091	45.00	2.28	A
HB25.4	25.400	20.00	8.00	8.00	5.20	19.50	20.50	17.00	2.03	25.00/5680	28.00	1.30	A
HP35	35.000	20.00	16.00	13.35	10.20	30.40	31.60	26.30	2.50	23.52/5345	26.40	2.02	A
HB35	35.000	20.00	16.00	14.00	10.2	32.00	33.50	38.10	3.00	40.00/9091	45.00	2.39	A
HB38.1	38.100	20.00	8.00	8.00	5.30	19.60	20.70	17.30	2.03	28.00/5682	28.80	0.98	B
HB38.1F1	38.100	20.00	18.00	10.50	5.10	39.00	40.30	22.00	4.00	60.00/13636	64.30	2.59	B
HB38.1F3	38.100	25.40	12.70	12.00	8.30	27.00	28.60	38.10	2.50	25.00/5682	28.80	1.51	B
HB38.1F4	38.100	20.00	12.70	8.00	5.20	26.00	27.20	17.00	2.42	24.00/5455	26.90	1.48	B
HP40F4	40.000	26.00	10.00	11.40	8.20	26.50	28.00	24.00	3.00	50.00/11364	56.70	2.20	B
HP41.75F1	41.750	17.10	20.20	11.11	8.20	35.70	39.00	21.65	3.10	26.50/6022	29.20	1.60	A
HP41.75F2	41.750	17.10	20.20	11.11	8.20	35.70	41.00	25.26	3.10	49.00/11136	54.80	2.04	A
HP41.75F3	41.750	17.00	20.50	11.00	8.30	36.00	39.50	21.40	3.00	27.00/6136	28.00	1.62	A
HP50F2	50.000	31.00	15.00	13.20	10.20	36.50	38.00	25.00	4.00	40.00/9091	43.20	3.40	B
HB50.8	50.800	30.00	10.50	11.40	8.20	27.40	28.60	26.00	3.10	50.00/11364	53.60	2.56	B

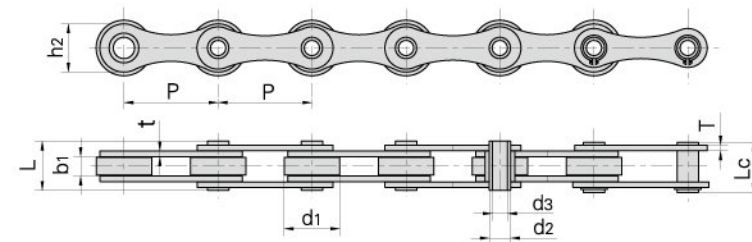
## Hollow pin chains



Type A



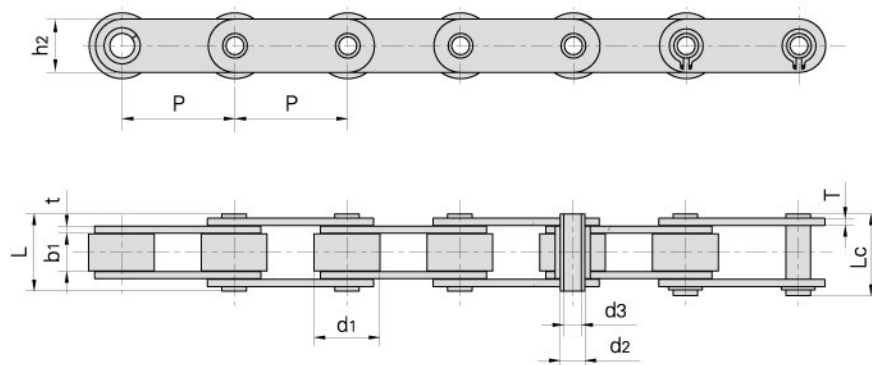
Type B



Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter	Type
	P	d1 max	b1 min	d2 max	d3 min	L max	Lc max	h2 max	t / T max	Q min	Q0	q	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m	
HB50.8F4	50.800	30.00	10.50	13.60	8.20	27.40	28.90	26.00	3.10	42.00/9545	48.20	2.28	B
HB63	63.000	30.00	10.00	11.40	8.10	26.70	28.10	26.50	3.10	50.00/11364	53.60	2.07	B
HB63F1	63.000	40.00	10.00	11.40	8.10	26.70	28.10	26.50	3.10	50.00/11364	53.60	2.27	B
HB63F2	63.000	40.00	20.00	11.40	8.10	36.70	38.10	26.50	3.10	50.00/11364	53.60	3.20	B
HB63F3	63.000	40.00	15.00	11.40	8.20	35.60	37.00	26.50	4.00	35.00/7955	38.50	3.90	B
HB63F4	63.000	30.00	20.00	11.40	8.10	36.70	38.10	26.50	3.10	50.00/11364	53.60	2.97	B
HB63F6	63.000	30.00	10.00	11.70	8.20	26.70	28.10	26.50	3.10	50.00/11364	56.70	2.08	B
HB63F7	63.000	40.00	18.00	14.00	10.20	38.00	39.50	28.00	4.00	50.00/11364	56.70	4.26	B
HB63F8	63.000	30.00	20.00	11.70	8.10	36.50	38.00	26.50	3.10	50.00/11364	56.70	2.91	B
HB100	100.000	30.00	10.50	11.40	8.20	27.40	28.60	26.00	3.10	50.00/11364	53.60	1.56	B
12AHBF2	19.050	11.91	12.70	7.00	5.10	26.50	27.60	18.00	2.42	20/4545	22.40	1.39	A
12BHFP6SLR	19.050	12.07	11.68	6.50	4.04	22.30	23.50	15.90	1.85	23.6/5364	25.96	1.12	A
HP38.1F9	38.100	22.20	12.70	11.00	8.15	26.50	27.50	18.00	2.50	22/5000	24.40	1.46	B
DH16500HP	50.000	30.00	10.50	11.40	8.20	27.40	28.60	26.00	3.10	50.00/11364	53.60	2.23	B
HB50F4	50.000	30.00	10.00	16.00	8.00	26.60	30.00	25.40	3.00	60/13635	67.20	2.03	B
HB50.8F14	50.800	30.00	10.00	16.00	8.00	26.60	30.00	25.40	3.00	60/13635	67.20	2.01	B
HB100F8	100.000	30.00	10.00	16.00	8.00	26.60	30.00	25.40	3.00	60/13635	67.20	1.37	B

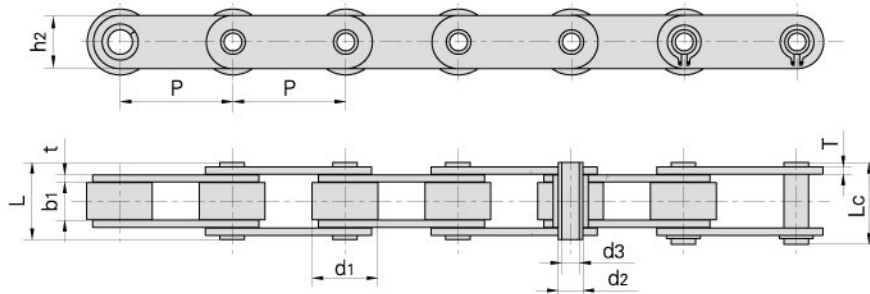


## Hollow pin chains

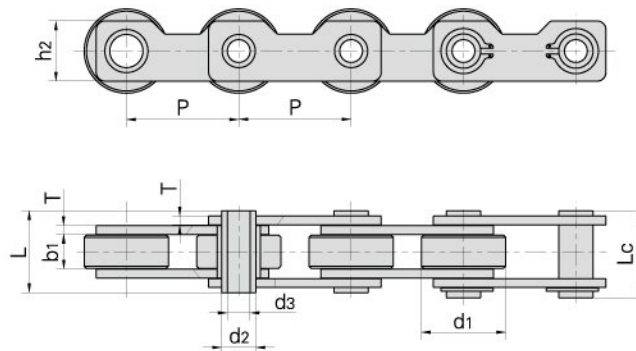


Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P	d1 max	b1 min	d2 max	d3 min	L max	Lc max	h2 max	t/T max	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
C2042HP	25.40	15.88	7.85	5.63	4.00	16.5	17.6	12.00	1.50	11.0/2500	12.6	0.78
C2052HP	31.75	19.05	9.53	7.22	5.12	20.5	21.8	15.00	2.03	20.4/4636	22.8	1.25
C2062HP	38.10	22.23	12.70	8.31	6.00	25.8	26.8	17.00	2.42	24.0/5455	27.1	1.72
C2082HP	50.80	28.58	15.75	11.40	8.05	32.4	33.8	24.00	3.25	50.0/11364	52.0	2.82
C2042H-HP	25.40	15.88	7.85	5.63	4.00	18.8	19.9	12.00	2.03	11.0/2500	13.2	0.95
C2052HPF1	31.75	19.05	9.40	7.03	5.12	20.0	21.5	15.30	1.85	15.0/3409	17.3	1.21
C2052HPF3	31.75	19.05	9.53	7.02	5.13	20.1	21.6	15.09	2.03	19.6/4455	21.6	1.20
C2052H-HP	31.75	19.05	9.53	7.22	5.12	22.1	23.4	15.00	2.42	20.4/4545	23.5	1.44
C2062H-HP	38.10	22.23	12.70	8.31	6.00	29.2	30.2	17.00	3.25	24.0/5455	27.6	1.99
C2082H-HP	50.80	28.58	15.75	11.40	8.05	35.7	37.0	24.00	4.00	50.0/11364	56.5	3.34
HP40	40.00	22.00	8.75	9.00	6.00	23.0	24.2	18.00	2.50	27.0/4545	28.0	1.49
HB40F1	40.00	22.00	9.00	9.00	6.00	23.0	24.5	18.00	2.50	20.0/4546	22.0	1.58
HB41.4	41.40	25.40	15.00	13.80	10.50	35.5	37.0	32.00	4.00	45.0/10227	48.0	4.20
HP50	50.00	31.00	14.50	13.20	10.40	31.1	32.5	25.00	3.10	30.0/6818	34.2	3.29
HP50F4	50.00	31.00	15.00	13.20	10.20	36.5	38.0	25.00	4.00	40.0/9091	44.8	3.73
HB50	50.00	31.00	15.00	14.00	10.20	36.0	37.5	25.00	4.00	40.0/9091	43.2	3.98
HB50.8F8	50.80	32.00	20.00	19.10	12.40	44.6	46.4	40.00	5.0/4.0	100.0/22727	108.0	6.75
C1655HP	50.80	30.00	10.50	13.00	8.20	27.4	28.9	26.00	3.10	42.0/9545	48.2	2.72
HP50.8	50.80	26.00	15.88	20.00	14.30	41.0	42.2	38.10	4.80	100.0/22727	108.0	5.32
HB50.8F9	50.80	35.00	12.00	15.50	10.20	36.0	37.3	30.00	5.00	70.0/15909	77.0	4.92
63HPF1	63.00	40.00	15.00	16.00	12.10	35.0	36.2	28.50	4.00	50.0/11364	56.7	4.20
DH4202HP	50.80	31.80	15.00	14.00	10.10	36.3	39.0	26.00	3.80	42.0/9545	51.6	3.75
DH4203HP	76.20	31.80	15.00	14.00	10.10	36.3	39.0	26.00	3.80	42.0/9545	47.1	3.01

## Hollow pin chains

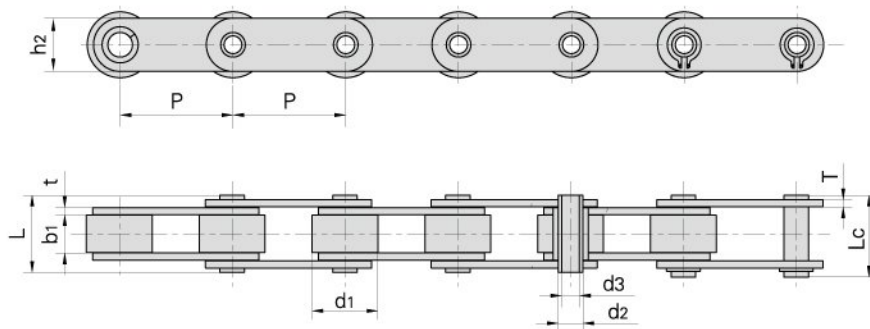


Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P mm	d1 max mm	b1 min mm	d2 max mm	d3 min mm	L max mm	Lc max mm	h2 max mm	t/T max mm	Q min kN/LB	Q0 kN	q kg/m
DH42035HP	88.9	31.80	15.00	14.00	10.1	36.3	39.0	26.0	3.8	42.0/9545	51.1	2.79
DH4204HP	101.6	31.80	15.00	14.00	10.1	36.3	39.0	26.0	3.8	42.0/9545	51.6	2.63
DH8403HP	76.2	47.60	19.00	19.05	13.6	43.8	46.3	39.0	5.1/3.8	84.3/19159	130.3	6.81
DH8404HP	101.6	47.60	19.00	19.05	13.6	43.8	46.3	39.0	5.1/3.8	84.3/19159	130.3	5.78
DH8406HP	152.4	47.60	19.00	19.05	13.6	43.8	46.3	39.0	5.1/3.8	84.0/19091	130.3	5.18
HB38.1F2	38.1	25.40	12.70	9.50	6.6	26.6	28.0	19.1	2.3	20.0/4545	22.4	2.07
HB50.8F3	50.8	30.00	16.00	14.00	9.0	36.4	37.5	25.5	3.1	42.0/9545	47.0	3.20
HB75	75.0	40.00	22.00	18.00	12.2	42.0	44.0	35.0	4.0	60.0/13636	72.0	5.57
HB76.2	76.2	31.75	15.50	12.70	9.5	35.5	37.0	26.0	4.0	42.0/9545	49.2	3.25
HB76.2F2	76.2	47.60	20.00	24.00	18.5	44.5	46.1	40.0	5.0/4.0	79.0/17953	92.5	6.77
HB80	80.0	50.00	20.00	24.00	18.5	44.5	46.1	40.0	5.0/4.0	79.0/17953	92.5	6.81
HP100	100.0	45.00	22.00	16.00	12.0	46.0	47.5	35.0	5.0	75.0/17044	90.0	6.20
HP100F1	100.0	45.00	22.00	18.00	12.0	47.2	48.5	35.0	5.0	75.0/17044	90.0	6.15



Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter		Pin length		Plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P mm	d1 max mm	b1 min mm	d2 max mm	d3 min mm	L max mm	Lc max mm	h2 max mm	T mm	Q min kN/LB	Q0 kN	q kg/m
HB50.8F1	50.8	38.1	15.7	15.5	10.3	35.2	36.7	27.2	4.00	55.46/51650	58.8	4.97

## Hollow pin chains



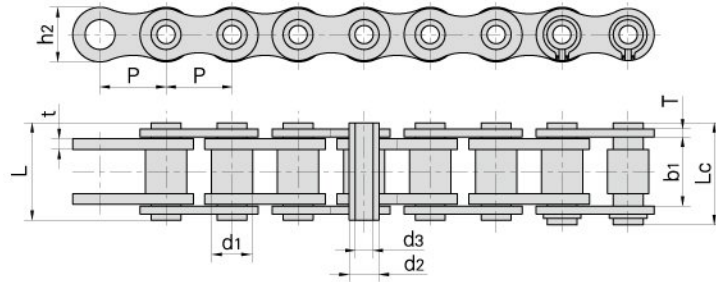
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P	d1 max	b1 min	d2 max	d3 min	L max	Lc max	h2 max	t/T max	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
HP101.6F1	101.60	47.60	19.00	19.00	13.20	46.2	48.0	40.0	5.0/4.0	53.0/12045	58.20	6.09
HP101.6F2	101.60	66.70	25.40	26.90	20.10	59.2	60.7	51.0	7.1/5.1	150.0/34088	160.00	14.23
HP152	152.40	66.70	25.40	26.90	19.56	57.2	59.5	50.8	7.1/5.1	94.0/21362	107.80	9.90
HP152.4F1	152.40	47.60	19.00	19.00	13.20	46.2	48.0	40.0	5.0/4.0	54.0/12270	59.50	5.00
C2102HP	63.50	39.67	18.90	13.60	9.50	40.3	42.0	30.0	4.00	60/13636	72.00	5.13
C2062H-HPF3	38.10	22.23	12.70	8.31	6.00	25.8	26.8	17.0	2.42	24/5455	27.10	1.72
HP130	130.00	40.00	21.00	18.10	12.10	41.3	42.5	35.0	3.80	80/18183	89.60	4.21
HB50.8F12	50.80	28.58	16.00	14.00	9.00	36.4	37.5	25.5	3.50	42/9545	47.00	3.26
HB25.4F2	25.40	15.89	17.26	9.00	6.35	31.3	32.5	20.0	2.50	20/4545	22.40	1.97
HB50.8F11	50.80	38.10	16.00	13.80	9.70	37.2	39.5	25.4	3.90	57/12953	63.84	5.01
HB63F11	63.00	40.00	20.00	20.00	18.00	42.5	43.5	42.0	4.00	46/10454	50.60	5.83
HB65	65.00	45.00	20.00	25.00	18.00	38.0	40.0	40.0	3.00	46/10454	50.60	4.49
HB63.5F1	63.50	32.00	15.00	16.00	12.20	32.0	33.0	25.0	3.00	20.4/4636	22.80	2.69
HB63F12	63.00	30.00	10.00	11.40	8.10	26.7	28.1	26.5	3.10	50/11364	56.50	2.39
HB100F10	100.00	45.00	33.00	18.00	12.10	48.5	49.7	35.0	5.00	75/17046	84.70	6.05
HB100F11	100.00	40.00	20.60	16.00	12.50	42.1	43.4	35.0	4.00	75/17046	84.70	4.58
HB38.1F6-R	38.10	25.40	15.20	14.00	10.20	34.5	36.5	27.0	3.70	45/10228	49.50	3.20
HB 25.4F4	25.40	20.00	11.00	12.00	8.35	27.0	28.4	24.0	3.00	32/7273	35.80	2.48
HB100F9	100.00	45.00	32.80	18.00	12.40	49.0	49.0	35.0	5.00	75/17046	84.70	6.14
HB100F7	100.00	30.00	15.00	16.00	12.30	36.5	37.8	35.0	4.00	75/17046	84.70	3.49
HB100F3	100.00	30.00	24.00	15.95	10.30	46.0	47.3	35.0	4.00	75/17046	84.70	4.04
HB50.42	50.42	37.30	15.00	14.00	10.20	36.0	37.5	26.2	4.00	40/9090	44.80	4.46



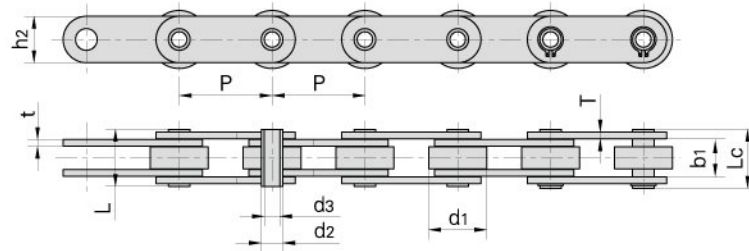
## Hollow pin chains



Type A



Type B



Chain No.	Pitch	Roller diameter	Width between outer plates	Pin diameter		Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter	Type
	P	d1 max	b1 min	d2 max	d3 min	L max	Lc max	h2 max	t/T max	Q min	Q0	q	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m	
08BHPF2	12.700	8.51	13.20	6.65	5.20	18.0	19.2	11.8	1.6/1.3	10.0/2273	11.4	0.50	A
08BHPF3	12.700	8.51	13.40	6.65	4.00	19.0	20.2	11.8	1.70	14.0/3182	16.8	0.69	A
HB12.7	12.700	8.51	13.40	6.65	4.10	19.0	20.2	11.8	1.70	14.0/3182	16.8	0.69	A
08BHPF8	12.700	8.51	11.30	6.30	4.50	16.7	18.5	11.8	1.60	11.0/2500	12.1	0.80	A
40HPF1–D3	12.700	8.51	11.60	6.35	4.36	20.6	20.6	12.0	1.50	11.0/2500	12.1	0.77	A
10BHPF1	15.875	10.16	13.41	7.03	5.00	19.2	20.2	14.0	1.85	17.0/3864	20.6	0.83	A
10BHPF2	15.875	10.16	10.40	7.03	5.00	17.0	18.0	14.0	1.85	15.0/3409	17.3	0.74	A
12BHPF1	19.050	12.07	16.00	8.03	5.40	22.7	23.9	15.8	1.85	25.0/5682	28.8	1.09	A
16BHPF1	25.400	15.88	25.58	11.50	8.10	36.5	37.6	21.0	4.15/3.1	45.0/10227	52.2	2.21	A
50HPF1	15.875	10.16	13.60	7.03	5.13	20.7	21.9	14.4	2.03	18.0/4091	21.6	0.92	A
60HPF2	19.050	11.91	11.23	5.63	4.05	16.5	17.6	10.4	1.50	10.0/2273	10.8	0.62	A
C12BHPF9	19.050	12.07	15.80	8.03	5.00	22.4	23.9	16.1	1.85	25.0/5682	28.8	1.26	B
12BHPF9	19.050	12.07	15.80	8.03	5.00	22.4	23.9	16.1	1.58	25.0/5682	28.8	1.18	A
60HPF3	19.050	11.91	17.20	8.40	6.10	24.7	26.0	18.0	2.03	20.0/4546	24.0	1.54	A
63HP	63.000	40.00	23.50	16.00	12.00	35.3	38.3	28.6	4.00	65.0/14773	71.5	4.14	B
63HPF2	63.000	40.00	25.80	14.00	8.08	39.1	41.1	20.0	5.00	50.0/11364	65.7	4.17	B
63HPF4	63.000	40.00	23.50	16.00	12.30	34.7	37.7	28.6	4.00	44.0/10000	57.2	4.13	B
63HPF6	63.000	40.00	28.94	16.00	10.30	41.8	43.4	28.6	4.00	44.0/10000	57.2	5.18	B
63HPF11	63.000	40.00	23.50	16.00	12.20	34.7	37.7	28.6	4.00	65.0/147333	71.5	4.25	B
63HPF12	63.000	40.00	23.50	16.00	12.20	34.7	37.7	28.0	4.00	44.0/10000	57.2	4.02	B
C2122HPF1	76.200	47.60	29.00	17.81	12.70	43.3	44.7	38.1	4.80	53.3/12123	59.2	7.05	B