Roller Chains, European Standard

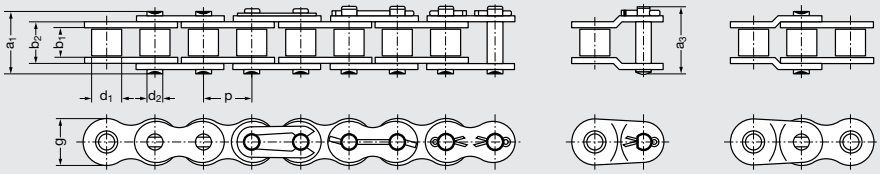
High Performance Roller Chains

Links A and B available for all chains.

■ With straight link plates on page 21.

○ Higher inner plate **"g"** = higher fatigue strength.

Roller Chains, Single Strand, DIN 8187 / ISO 606

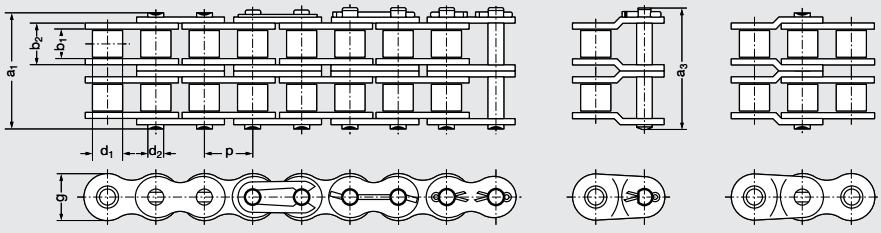


Roller link **B** | Pin link **A** | Connecting link spring clip **E** | Connecting link double cotter **S** | Offset link single **L** | Offset link double **C**

ISO-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
04		6,0	2,8	4,0	1,85	4,1	5,0	–	7,4	10,3	0,08	3 000	0,12		x	x	
05 B – 1		8,0	3,0	5,0	2,31	4,77	7,1	–	8,6	11,7	0,11	5 000	0,18		x	x	
■ 06 B – 1	0,375	9,525	5,72	6,35	3,28	8,53	8,3	–	13,5	16,8	0,28	9 000	0,41		x	x	
081	0,50	12,7	3,3	7,75	3,66	5,8	9,9	–	10,2	11,7	0,21	8 200	0,28		x	x	x
083	0,50	12,7	4,88	7,75	4,09	7,9	10,3	–	12,9	14,4	0,32	12 000	0,42		x	x	x
084	0,50	12,7	4,88	7,75	4,09	8,8	11,1	–	14,8	16,3	0,326	16 000	0,59		x	x	x
085	0,50	12,7	6,38	7,77	3,58	9,07	9,9	–	14,0	16,0	0,32	6 800	0,38		x	x	x
08 B – 1	0,50	12,7	7,75	8,51	4,45	11,3	11,6	–	17,0	19,0	0,50	18 000	0,70		x	x	x
■ 10 B – 1	0,625	15,875	9,65	10,16	5,08	13,28	14,6	–	19,6	22,0	0,67	22 400	0,90		x	x	x
■ 12 B – 1	0,75	19,05	11,68	12,07	5,72	15,62	15,9	–	22,7	25,1	0,89	29 000	1,15		x	x	x
■ 16 B – 1	1,00	25,4	17,02	15,88	8,28	25,4	20,5	–	36,1	42,4	2,1	60 000	2,60	x	x	x	x
■ 20 B – 1	1,25	31,75	19,56	19,05	10,19	29,0	25,7	–	40,4	47,6	2,96	95 000	3,70	x			x
■ 24 B – 1	1,50	38,1	25,4	25,4	14,63	37,9	33,0	–	53,8	60,6	5,54	160 000	6,90	x			x
28 B – 1	1,75	44,45	30,99	27,94	15,90	46,5	37,0	–	63,3	72,8	7,39	200 000	8,60	x			x
32 B – 1	2,00	50,8	30,8	29,21	17,81	45,5	41,2	–	65,1	73,6	8,1	250 000	9,50	x			x
40 B – 1	2,50	63,5	38,1	39,37	22,89	55,7	51,5	–	78,9	91,3	12,75	355 000	15,10	x			x
48 B – 1	3,00	76,2	45,72	48,26	29,24	70,5	63,5	–	98,5	124,0	20,61	560 000	24,50	x			x
56 B – 1	3,50	88,9	53,34	53,98	34,32	81,3	77,0	–	114,7	140,0	27,9	850 000	36,50	x			x
○ 64 B – 1	4,00	101,6	60,96	63,50	39,40	92,0	93,3	–	130,0	143,0	36,25	1 120 000	50,0	x			
○ 72 B – 1	4,50	114,3	68,58	72,39	44,50	103,8	105,3	–	147,0	161,0	46,19	1 400 000	65,0	x			

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

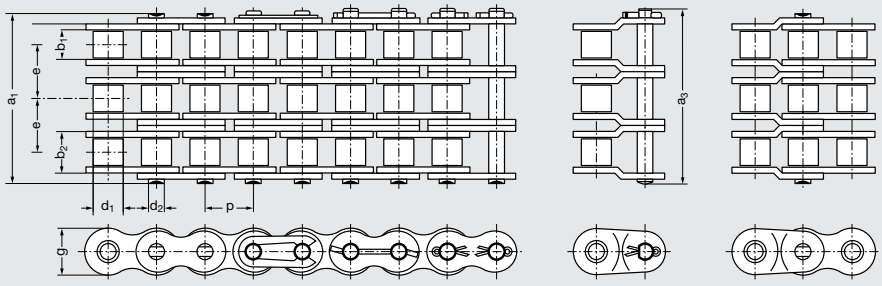
Roller Chains, Double Strand, DIN 8187 / ISO 606



Roller link B | Pin link A | Connecting link spring clip E | Connecting link double cotter S | Offset link single L | Offset link double C

ISO-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Trans-verse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
■ 06 B – 2	0,375	9,525	5,72	6,35	3,28	8,53	8,2	10,24	23,8	27,1	0,56	16 900	0,78		x	x	x
08 B – 2	0,50	12,7	7,75	8,51	4,45	11,3	11,6	13,92	31,0	33,0	1,01	32 000	1,40		x	x	x
■ 10 B – 2	0,625	15,875	9,65	10,16	5,08	13,28	14,6	16,59	36,2	38,6	1,34	44 500	1,80		x	x	x
12 B – 2	0,75	19,05	11,68	12,07	5,72	15,62	15,9	19,46	42,2	44,4	1,79	57 800	2,30		x	x	x
■ 16 B – 2	1,00	25,4	17,02	15,88	8,28	25,4	20,5	31,88	68,0	74,0	4,21	106 000	5,30	x	x	x	x
20 B – 2	1,25	31,75	19,56	19,05	10,19	29,0	25,7	36,45	76,9	83,6	5,91	170 000	7,25	x			x
24 B – 2	1,50	38,1	25,4	25,4	14,63	37,9	33,0	48,36	102,2	112,7	11,09	280 000	13,75	x			x
28 B – 2	1,75	44,45	30,99	27,94	15,90	46,5	37,0	59,56	122,8	132,7	14,79	360 000	17,30	x			x
32 B – 2	2,00	50,8	30,8	29,21	17,81	45,5	41,2	58,55	123,6	132,4	16,21	450 000	18,80	x			x
40 B – 2	2,50	63,5	38,1	39,37	22,89	55,7	51,5	72,29	151,2	163,8	25,5	630 000	29,90	x			x
48 B – 2	3,00	76,2	45,72	48,26	29,24	70,5	63,5	91,21	189,7	215,2	41,23	1 000 000	48,60	x			x
56 B – 2	3,50	88,9	53,34	53,98	34,32	81,3	77,0	106,6	221,3	246,5	55,8	1 600 000	72,50	x			x
○ 64 B – 2	4,00	101,6	60,96	63,50	39,40	92,0	93,3	119,89	250,0	263,0	72,5	2 000 000	98,0	x			
○ 72 B – 2	4,50	114,3	68,58	72,39	44,50	103,8	105,3	136,27	283,0	297,0	92,4	2 500 000	128,0	x			

Roller Chains, Triple Strand, DIN 8187 / ISO 606



Roller link B | Pin link A | Connecting link spring clip E | Connecting link double cotter S | Offset link single L | Offset link double C

ISO-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Trans-verse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
■ 06 B – 3	0,375	9,525	5,72	6,35	3,28	8,53	8,3	10,24	34,0	37,3	0,84	24 900	1,18		x	x	x
08 B – 3	0,50	12,7	7,75	8,51	4,45	11,3	11,6	13,92	44,9	47,2	1,51	47 500	2,10		x	x	x
10 B – 3	0,625	15,875	9,65	10,16	5,08	13,28	14,6	16,59	52,8	55,6	2,02	66 700	2,60		x	x	x
12 B – 3	0,75	19,05	11,68	12,07	5,72	15,62	15,9	19,46	61,7	65,2	2,68	86 700	3,40		x	x	x
16 B – 3	1,00	25,4	17,02	15,88	8,28	25,4	20,5	31,88	99,9	107,2	6,31	160 000	7,80		x	x	x
20 B – 3	1,25	31,75	19,56	19,05	10,19	29,0	25,7	36,45	113,4	121,2	8,87	250 000	10,85	x			x
24 B – 3	1,50	38,1	25,4	25,4	14,63	37,9	33,0	48,36	150,5	160,4	16,63	425 000	20,50	x			x
28 B – 3	1,75	44,45	30,99	27,94	15,90	46,5	37,0	59,56	182,3	192,2	22,18	530 000	25,75	x			x
32 B – 3	2,00	50,8	30,8	29,21	17,81	45,5	41,2	58,55	182,2	191,0	24,31	670 000	27,95	x			x
40 B – 3	2,50	63,5	38,1	39,37	22,89	55,7	51,5	72,29	223,5	236,1	38,25	950 000	44,80	x			x
48 B – 3	3,00	76,2	45,72	48,26	29,24	70,5	63,5	91,21	281,0	306,5	61,84	1 500 000	72,50	x			x
56 B – 3	3,50	88,9	53,34	53,98	34,32	81,3	77,0	106,6	328,0	353,2	83,71	2 240 000	109,00	x			x

64 B – 3 and **72 B – 3** on request.

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Roller Chains
American Standard

Optimum Constructive and Technical Coordination of the Individual Chain Parts

Attention:

ANSI 140 – ANSI 240 roller chains and the Heavy series chains 60 H – 200 H see next pages.

Please mind the different design of connecting links and cotter versions for the ANSI 140 – ANSI 240 chains compared with chains on this page.

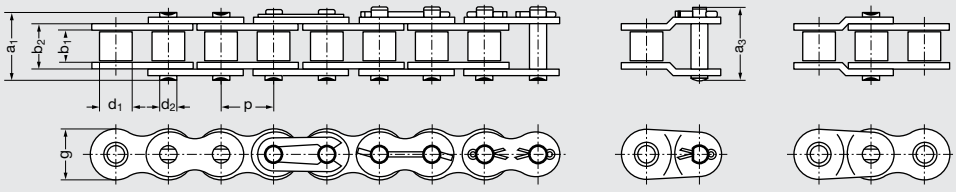
Available upon request: Our Oilfield Roller Chain Catalogue with 4 to 8 strand roller chains ANSI.

Links A and B available for all chains.

- ● Bushed chain.
- ■ With straight link plates on page 21.

1) Bushing diameter
available up to and incl. ANSI 50 rivetet only, from ANSI 60 upwards riveted and cottered.

Roller Chains, Single Strand, DIN 8188/ANSI

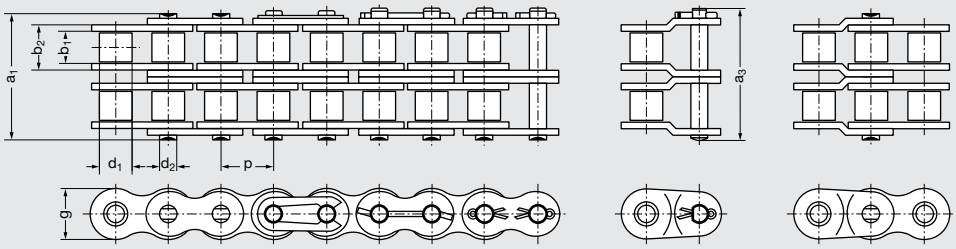


Roller link	Pin link	Connecting link spring clip	Connecting link double cotter	Offset link single	Offset link double
B	A	E	S	L	C

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
● 35	0,375	9,525	4,68	5,08 1)	3,58	7,47	9,0	–	12,0	14,4	0,27	7 900	0,33		x	x	x
40	0,50	12,7	7,85	7,95	3,96	11,15	11,6	–	16,3	19,1	0,44	14 100	0,62		x	x	x
50	0,625	15,875	9,4	10,16	5,08	13,8	14,6	–	20,3	23,0	0,70	22 200	1,01		x	x	x
■ 60	0,75	19,05	12,57	11,91	5,94	17,7	17,7	–	25,7	28,6	1,05	31 800	1,48	x	x	x	x
80	1,00	25,4	15,75	15,88	7,92	22,5	23,5	–	33,0	38,0	1,78	56 700	2,60	x	x	x	x
100	1,25	31,75	18,9	19,05	9,53	27,4	29,2	–	39,4	44,9	2,61	88 500	3,76	x			x
120	1,50	38,1	25,22	22,23	11,1	35,3	34,4	–	49,8	56,1	3,92	127 000	5,50	x			x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

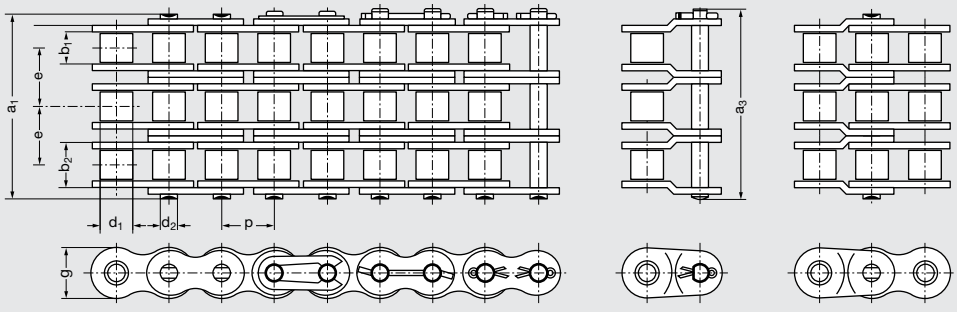
Roller Chains, Double Strand, DIN 8188/ANSI



Roller link	Pin link	Connecting link spring clip	Connecting link double cotter	Offset link single	Offset link double
B	A	E	S	L	C

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
● 35 – 2	0,375	9,525	4,68	5,08 [1)]	3,58	7,47	8,3	10,13	22,1	24,5	0,53	15 800	0,65		x	x	x
40 – 2	0,50	12,7	7,85	7,95	3,96	11,15	11,6	14,38	30,7	33,5	0,88	28 200	1,22			x	x
50 – 2	0,625	15,875	9,4	10,16	5,08	13,8	14,6	18,11	38,5	41,3	1,40	44 400	2,00		x	x	x
60 – 2	0,75	19,05	12,57	11,91	5,94	17,7	17,7	22,78	48,5	51,5	2,10	63 600	2,95	x		x	x
80 – 2	1,00	25,4	15,75	15,88	7,92	22,5	23,5	29,29	62,4	67,1	3,56	113 400	5,20	x			x
100 – 2	1,25	31,75	18,9	19,05	9,53	27,4	29,2	35,76	75,3	87,8	5,22	177 000	7,60	x			x
120 – 2	1,50	38,1	25,22	22,23	11,1	35,3	34,4	45,44	95,3	101,6	7,84	254 000	10,80	x			x

Roller Chains, Triple Strand, DIN 8188/ANSI



Roller link	Pin link	Connecting link spring clip	Connecting link double cotter	Offset link single	Offset link double
B	A	E	S	L	C

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
● 35 – 3	0,375	9,525	4,68	5,08 [1)]	3,58	7,47	8,3	10,13	32,3	34,7	0,80	23 700	0,97		x	x	x
40 – 3	0,50	12,7	7,85	7,95	3,96	11,15	11,6	14,48	45,1	48,0	1,32	42 300	1,83			x	x
50 – 3	0,625	15,875	9,4	10,16	5,08	13,8	14,6	18,11	56,7	59,8	2,10	66 600	2,97			x	x
60 – 3	0,75	19,05	12,57	11,91	5,94	17,7	17,7	22,78	71,4	75,6	3,15	95 400	4,35	x		x	x
80 – 3	1,00	25,4	15,75	15,88	7,92	22,5	23,5	29,29	91,7	97,7	5,35	170 100	7,90	x			x
100 – 3	1,25	31,75	18,9	19,05	9,53	27,4	29,2	35,76	111,1	117,2	7,83	265 500	11,40	x			x
120 – 3	1,50	38,1	25,22	22,23	11,1	35,3	34,4	45,44	140,7	148,3	11,76	381 000	15,80	x			x

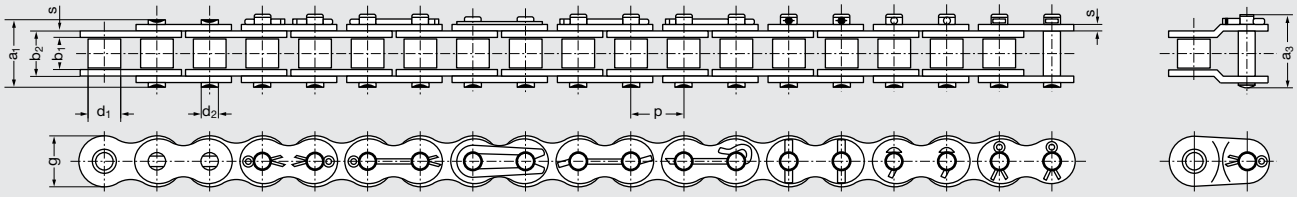
*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Roller Chains
American Standard

Large Pitch Roller Chains for high demands

Links A and B available for all chains.

Roller Chains, Single Strand, DIN 8188/ANSI

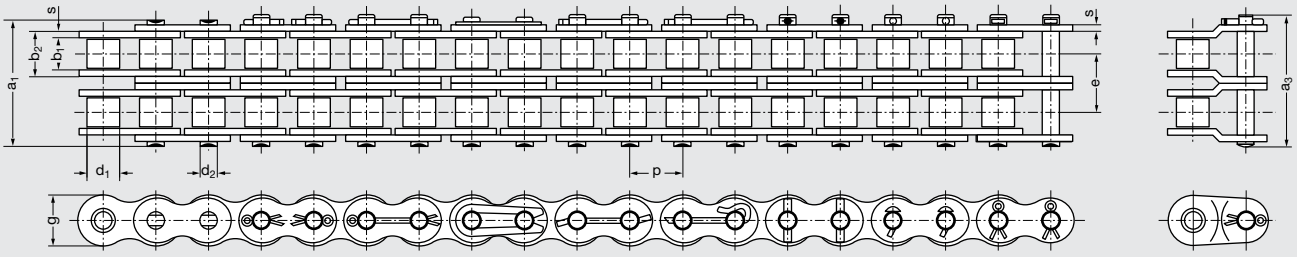


Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts U	Loose Parts L
140	1,75	44,45	25,22	25,4	12,7	37,0	40,8	–	53,4	59,3	4,7	172 400	7,2	AT	x	x
160	2,00	50,8	31,55	28,58	14,27	45,0	47,8	–	63,6	68,9	6,42	226 800	10,3	AT	x	x
180	2,25	57,15	35,48	35,71	17,46	50,85	50	–	71,3	80,0	8,87	280 200	14,0	AT	x	x
200	2,50	63,5	37,85	39,68	19,84	54,7	60	–	78,0	87,5	10,85	353 800	16,8	AT	x	x
240	3,00	76,2	47,35	47,63	23,8	67,5	70	–	94,8	106,7	16,07	510 300	25,0	AS	x	x

*) Breaking load is only a static value. Since almost every drive will be dynamically loaded, on request, we shall advise the effective higher Rexnord breaking load values as well as our effective fatigue resistance values.

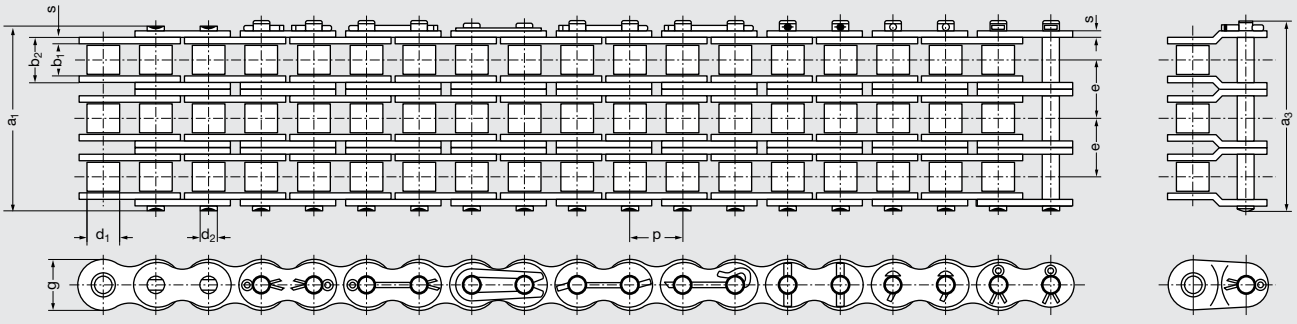
Roller Chains, Double Strand, DIN 8188/ANSI



Roller link **B** | Pin link **A** | Pin link **AS** | Pin link **AT** | Pin link or Connecting link Rollpin **AK** | Connecting link T-head cotter **M** | Connecting link double cotter **U** | Offset link single **L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts U	Loose Parts L
140 — 2	1,75	44,45	25,22	25,4	12,7	37,0	40,8	48,87	103,3	109,6	9,4	344 800	14,2	AK	x	x
160 — 2	2,00	50,8	31,55	28,58	14,27	45,0	47,8	58,55	122,1	130,1	12,84	453 600	19,5	AK	x	x
180 — 2	2,25	57,15	35,48	35,71	17,46	50,85	50	65,84	136,7	145,4	17,74	560 500	27,0	AK	x	x
200 — 2	2,50	63,5	37,85	39,68	19,84	54,7	60	71,55	149,6	159,2	21,7	707 600	32,7	AT	x	x
240 — 2	3,00	76,2	47,35	47,63	23,8	67,5	70	87,83	182,7	194,7	32,13	1 020 600	49,4	AS	x	x

Roller Chains, Triple Strand, DIN 8188/ANSI



Roller link **B** | Pin link **A** | Pin link **AS** | Pin link **AT** | Pin link or Connecting link Rollpin **AK** | Connecting link T-head cotter **M** | Connecting link double cotter **U** | Offset link single **L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts U	Loose Parts L
140 — 3	1,75	44,45	25,22	25,4	12,7	37,0	40,8	48,87	151,2	158,5	14,1	517 200	21,5	AK	x	x
160 — 3	2,00	50,8	31,55	28,58	14,27	45,0	47,8	58,55	180,7	188,7	19,26	680 400	26,3	AK	x	x
180 — 3	2,25	57,15	35,48	35,71	17,46	50,85	50	65,84	202	210,7	26,61	840 700	40,5	AK	x	x
200 — 3	2,50	63,5	37,85	39,68	19,84	54,7	60	71,55	221,1	230,7	32,56	1 061 400	48,8	AT	x	x
240 — 3	3,00	76,2	47,35	47,63	23,8	67,5	70	87,83	270,6	282,5	48,2	1 530 900	74,1	AS	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Roller Chains
American Standard, H-Series

Small Alterations – High Fatigue Strength

Links A and B available for all chains.

Advantages of Rexnord "H"-Chains

The pins for Rexnord roller chains of the heavy series – as well as the roller chains American standard – are made from high quality case hardened steel.

For both the surface hardness of approx. 60 HRc guarantees the excellent Rexnord wear resistance. The link plates however are thicker. They are taken from the next larger chain (see page 42).

The fatigue strength is increased by 40 % for Rexnord chains of the heavy series. This is also valid for the allowable loading.

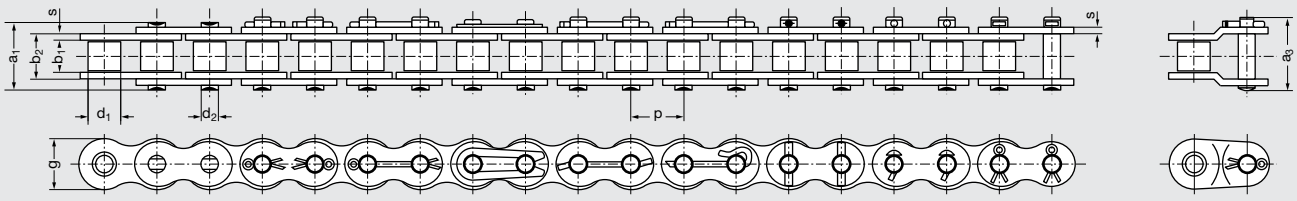
The statement that there is no difference in breaking force between American standard and heavy series will not effect the above mentioned 40 % higher allowable loading.

It is the cross section of the link plates which determines the fatigue strength and also the allowable loading.

The pins of the ANSI-series are not critical in respect to fatigue strength, they only limit the breaking force.

Breaking force however is not valid for dynamic load. It is only significant with static load and to investigate so called security factors.

Roller Chains, Single Strand, ANSI
Heavy Series with Higher Fatigue Resistance (Thicker Link Plates)

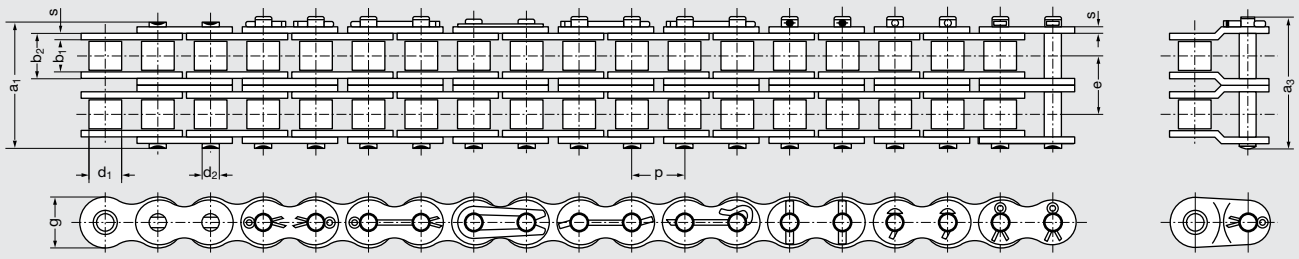


Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
60 H	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	–	28,8	32,0	1,15	31 800	1,97		x		x
80 H	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	–	35,9	41,0	1,94	56 700	3,2		x		x
100 H	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	–	42,8	48,2	2,76	88 500	4,4		x		x
120 H	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	–	53,0	59,0	4,12	127 000	6,4		x		x
140 H	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	–	56,6	62,6	4,91	172 400	8,3	AT	x	x	x
160 H	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	–	67,2	72,3	6,69	226 800	11,5	AT	x	x	x
200 H	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	–	84,0	93,5	11,42	353 800	20,0	AT	x	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

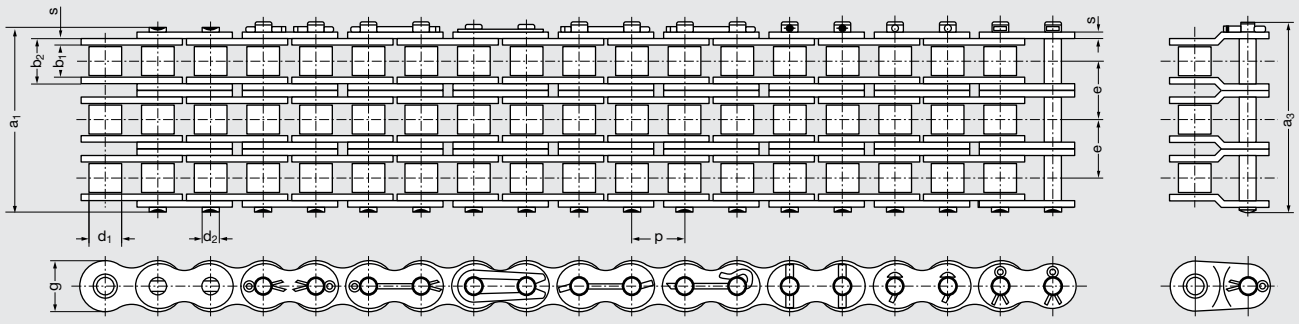
Roller Chains, Double Strand, ANSI
Heavy Series with Higher Fatigue Resistance (Thicker Link Plates)



Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
60 H – 2	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	26,1	54,9	58,0	2,3	63 600	3,95		x		x
80 H – 2	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	32,6	68,6	73,7	3,88	113 400	6,3		x		x
100 H – 2	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	39,12	82,0	97,8	5,52	177 000	9,0		x		x
120 H – 2	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	48,91	101,8	109,5	8,36	254 000	12,6		x		x
140 H – 2	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	52,2	108,7	116,0	9,82	344 800	16,2	AK	x	x	x
160 H – 2	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	61,89	128,6	136,8	13,4	453 600	22,0	AK	x	x	x
200 H – 2	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	78,3	161,6	171,2	22,84	707 600	39,0	AT	x	x	x

Roller Chains, Triple Strand, ANSI
Heavy Series with Higher Fatigue Resistance (Thicker Link Plates)



Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
60 H – 3	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	26,1	81,1	84,4	3,45	95 400	5,8		x		x
80 H – 3	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	32,6	101,2	106,3	5,82	170 100	9,6		x		x
100 H – 3	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	39,12	120,0	126,6	8,3	265 500	13,4		x		x
120 H – 3	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	48,91	150,8	158,7	12,35	381 000	19,5		x		x
140 H – 3	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	52,2	160,9	168,3	14,3	517 200	24,7	AK	x	x	x
160 H – 3	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	61,89	198,0	198,7	20,1	680 400	29,4	AK	x	x	x
200 H – 3	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	78,3	239,1	248,7	34,26	1 061 400	58,0	AT	x	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Roller Chains, American Standard, HE-Series

Extremely High Shock Resistance

Links A and B available for all chains.

Advantages of Rexnord "HE"-Chains

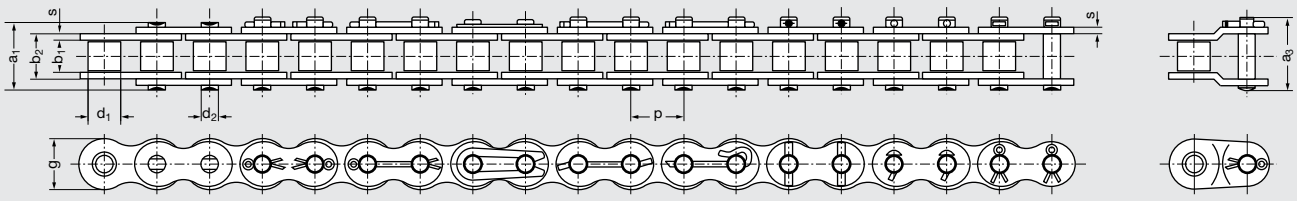
We use for the Rexnord roller chains of the HE-series link plates of the next larger chain that means compared with the standard series an increase of 40 % for fatigue resistance. For heavy series with HE-series we use pins made from through hardened material. Its higher shear and yield strength increase the breaking force and the shock resistance.

Pins made from through hardened material have not the same high surface hardness as case hardened pins from the standard or "H"-series. That means a slightly lower wear resistance.

In case high resistance strength is important and sufficiant lubrication cannot be guaranteed and additional inductive surface hardening for the pins should be considered. Thus will increase the surface hardness above 60 HRc and besides the already existing high fatigue strength and shock resistance an extremly high wear resistance will be yielded.

Thickness of link plates are nominal sizes. On request we will state exact dimensions and tolerances.

Roller Chains, Single Strand, ANSI, Heavy Series with Higher Fatigue Resistance (Thicker Link Plates and Higher Breaking Force)

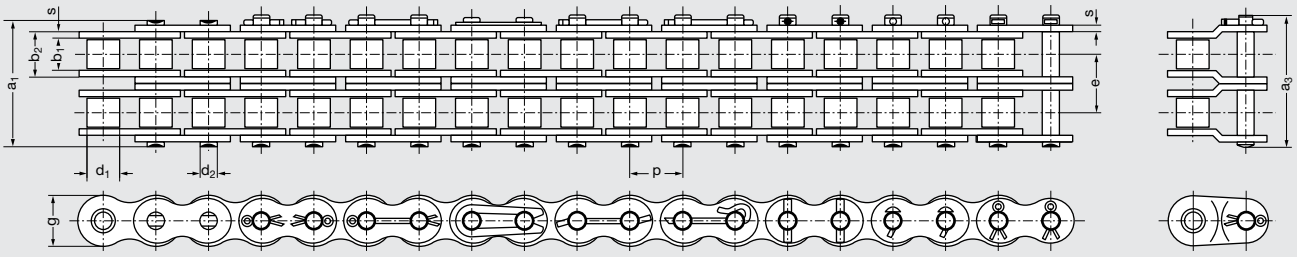


Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
60 HE	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	–	28,8	32,0	1,15	42 000	1,97		x		x
80 HE	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,3	–	35,9	41,0	1,94	75 600	3,2		x		x
100 HE	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	–	42,8	48,2	2,76	113 400	4,4		x		x
120 HE	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	–	53,0	59,0	4,1	155 700	6,4		x		x
140 HE	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	–	56,6	62,6	4,94	209 100	8,3	AT	x	x	x
160 HE	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	–	67,2	72,3	6,69	266 900	11,8	AT	x	x	x
200 HE	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	–	84,0	93,5	11,42	405 000	20,0	AT	x	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

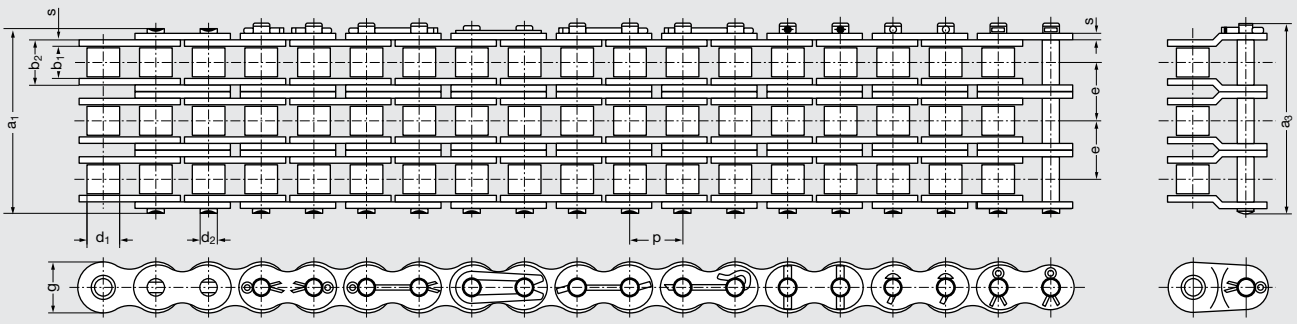
Roller Chains, Double Strand, ANSI, Heavy Series with Higher Fatigue Resistance (Thicker Link Plates and Higher Breaking Force)



Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm²	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
80 HE – 2	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	32,6	68,6	73,7	3,88	151 200	5,3		x		x
100 HE – 2	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	39,12	82,0	87,8	5,52	226 800	9,0		x		x
120 HE – 2	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	48,91	101,8	109,5	8,36	311 400	12,6		x		x
140 HE – 2	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	52,2	108,7	116,0	9,82	418 200	15,8	AK	x	x	x
160 HE – 2	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	61,89	128,6	136,8	13,4	533 800	22,0	AK	x	x	x
200 HE – 2	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	78,3	161,6	171,2	22,84	810 000	39,0	AT	x	x	x

Roller Chains, Triple Strand, ANSI, Heavy Series with Higher Fatigue Resistance (Thicker Link Plates and Higher Breaking Force)



Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm²	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
80 HE – 3	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	32,6	101,2	106,3	5,82	226 800	9,6		x		x
100 HE – 3	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	39,12	120,0	126,6	8,3	340 200	13,4		x		x
120 HE – 3	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	48,91	150,8	158,7	12,35	467 100	18,5		x		x
140 HE – 3	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	52,2	160,9	168,3	14,3	627 300	24,7	AK	x	x	x
160 HE – 3	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	61,89	198,0	198,7	20,1	800 700	29,4	AK	x	x	x
200 HE – 3	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	78,3	239,1	248,7	34,26	1215 000	58,0	AT	x	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Roller Chains, Industry Standard

Industry Standard Chains – For Individual Demands

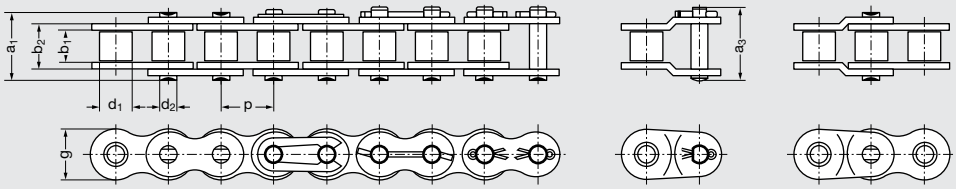
Links A and B available for all chains.

All roller chains with straight side plates can be supplied in multiple strand execution.

1) Bushing diameter.
He 488 = Bushed chain.

○ Higher inner plate **"g"** = higher fatigue strength

Roller Chains, Industry Standard

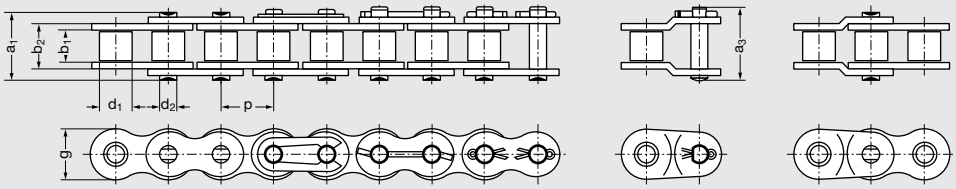


Roller link	Pin link	Connecting link spring clip	Connecting link single wire	Connecting link double cotter	Offset link single	Offset link double
B	A	E	G	S	L	C

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
Re 217	0,50	12,7	6,4	8,51	4,45	9,93	11,6	–	15,4	18,9	0,44	18 000	0,67		x	x	x
Re 317	0,625	15,875	6,48	10,16	5,08	10,08	14,7	–	16,0	20,0	0,51	23 600	0,80		x	x	x
Re 425	0,75	19,05	13,5	12,07	5,72	19,4	16,8	–	27,0	31,8	1,12	33 500	1,57	x	x	x	x
Re 480	0,75	19,05	11,68	12,07	6,10	17,23	16,8	–	25,0	29,5	1,05	40 000	1,45	G	x	x	x
Re 487	0,787	20,0	16,0	12,0	6,0	22,5	19,0	–	32,1	35,9	1,35	35 500	2,00	x	G	x	x
He 488	0,787	20,0	16,0	12,0 [1]	8,0	22,5	19,0	–	32,5	37,3	1,80	35 500	2,00	x	x	x	x
Re 514	1,00	25,4	12,7	14,0	7,0	19,07	19,7	–	27,3	33,1	1,33	45 000	1,74	x	x	x	x
Re 516	1,00	25,4	12,7 [1]	15,88	8,28	21,07	20,6	–	30,8	37,6	1,74	63 000	2,4	x	x	x	x
Re 519	1,00	25,4	17,02	15,88	9,0	25,4	24,1	–	36,0	39,8	2,29	80 000	3,16	x	x	G	
Rz 519	1,00	25,4	17,02	15,88	9,0	25,4	24,1	31,88	67,8	72,0	4,58	160 000	6,25	x	x	G	
Re 525	1,00	25,4	12,7	12,7	7,0	19,07	20,8	–	27,4	32,5	1,33	45 000	1,59	x	x	x	x
Re 626	1,18	30,0	17,02	15,88	8,28	25,4	20,5	–	35,5	41,9	2,10	63 000	2,33	x	x		x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Roller Chains without Rollers for Lifting Applications and Rock Drilling Machinery



Roller link **B** | Pin link **A** | Connecting link spring clip **E** | Connecting link single wire **G** | Connecting link double cotter **S** | Offset link single **L** | Offset link double **C**

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
16 B – 1 OR	1,00	25,4	17,02	11,72 [1]	8,28	25,4	20,5	35,4	42,4	2,10	60 000	2,20	x		x	
65	0,75	19,05	12,57	9,04 [1]	5,94	17,75	17,7	25,7	28,6	1,06	31 800	1,20	x		x	
85	1,00	25,4	15,75	11,69 [1]	7,92	22,61	23,6	33,0	38,0	1,79	56 700	2,18	x			
105	1,25	31,75	18,9	13,86 [1]	9,53	27,46	29,2	39,4	44,9	2,62	88 500	3,18	x			

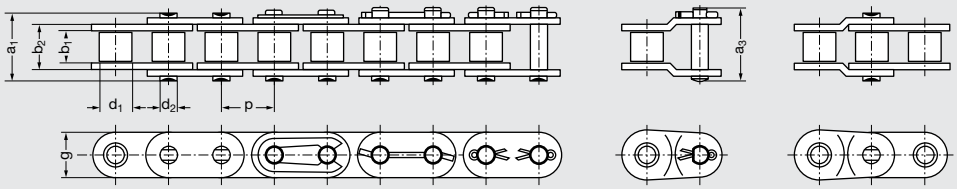
Roller Chains for Heavy Drives and Lifting Applications

KRV 12	1,00	25,4	12,7	19,05	10,19	25,7	24,0	40,1	–	2,61	117 500	4,40	x			
R 38 SH	1,50	38,1	25,4	25,4	14,63	40,0	37,2	56,7	–	5,85	235 000	7,80	x			
R 44 SH	1,75	44,45	30,99	27,94	15,90	46,5	40,8	66,3	–	7,39	270 000	9,80	x			

Hoisting Chains for Straddle Carriers

○ 64 S – 1	2,50	63,5	38,1	39,38	22,45	57,9	59,5	84,4	93,9	13,2	530 000	16,50	1			
○ 200 HF	2,50	63,5	38,1	39,68	19,8	54,9	59,5	–	85,6	10,9	353 800	17,00	x			

Roller Chains with Straight Link Plates



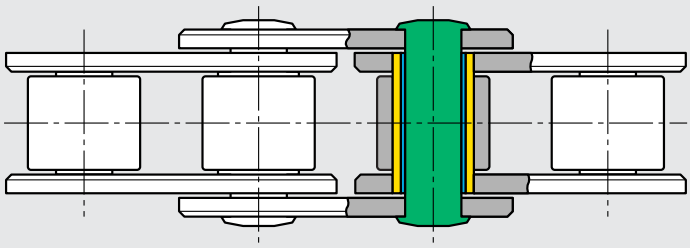
Roller link **B** | Pin link **A** | Connecting link spring clip **E** | Connecting link single wire **G** | Connecting link double cotter **S** | Offset link single **L** | Offset link double **C**

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Trans-verse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
○ 06 B – 1 GL	0,375	9,525	5,72	6,35	3,28	8,53	8,1	–	12,8	15,8	0,28	9 000	0,42			x	
○ 06 B – 2 GL	0,375	9,525	5,72	6,35	3,28	8,53	8,1	10,24	23,1	26,0	0,56	16 000	0,78			x	
08 B – 1 GL	0,50	12,7	7,75	8,51	4,45	11,3	12,0	–	17,0	19,0	0,50	18 000	0,75			x	
10 B – 1 GL	0,625	15,875	9,65	10,16	5,08	13,28	13,9	–	18,9	22,0	0,67	22 400	1,0			x	
10 B – 2 GL	0,625	15,875	9,65	10,16	5,08	13,28	13,9	16,59	35,5	38,6	1,34	44 500	1,90			x	
12 B – 1 GL	0,75	19,05	11,68	12,07	5,72	15,62	15,9	–	22,3	25,1	0,89	29 000	1,33			x	
12 B – 2 GL	0,75	19,05	11,68	12,07	5,72	15,62	15,9	19,46	41,7	44,4	1,79	57 800	2,6			x	
16 B – 1 GL	1,00	25,4	17,02	15,88	8,28	25,4	20,3	–	35,4	42,4	2,10	60 000	2,85	x		x	
16 B – 2 GL	1,00	25,4	17,02	15,88	8,28	25,4	20,3	31,88	67,4	74,0	4,21	106 000	5,80	x		x	
20 B – 1 GL	1,25	31,75	19,56	19,05	10,19	29,0	25,8	–	40,4	47,6	2,96	95 000	4,00	x			
24 B – 1 GL	1,50	38,1	25,4	25,4	14,63	37,9	33,0	–	53,8	60,6	5,54	160 000	7,5	x			
32 B – 1 GL	2,00	50,8	30,8	29,21	17,81	45,5	41,2	–	65,1	73,6	8,10	250 000	10,4	x			
60 GL	0,75	19,05	12,57	11,91	5,94	17,7	18,0	–	25,7	29,6	1,05	31 800	1,65	G		x	

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Roller Chains with Thermoplastic Bearings

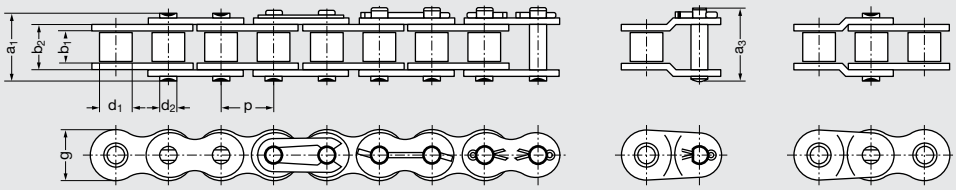
Non-Lube Chain



Links A and B available for all chains.

KL Chain length tolerance = 0 – 0,35 %.

Roller Chains, Single Strand, with Thermoplastic Bearings



Roller link	Pin link	Connecting link spring clip	Connecting link double cotter	Offset link single	Offset link double
B	A	E	S	L	C

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
08 B – 1 KL	0,50	12,7	7,75	8,51	4,45	11,3	11,6	–	16,7	20,3	0,5	14 000	0,68		x	x	x
10 B – 1 KL	0,625	15,875	9,65	10,16	5,08	13,28	14,7	–	18,9	23,2	0,67	19 000	0,9		x	x	x
12 B – 1 KL	0,75	19,05	11,68	12,07	5,72	15,62	15,9	–	22,3	25,0	0,89	25 000	1,15	x	x	x	x
16 B – 1 KL	1,00	25,4	17,02	15,88	8,28	25,4	20,6	–	35,4	41,9	2,1	53 000	2,6	x	x	x	x

Roller Chains, Double Strand, with Thermoplastic Bearings

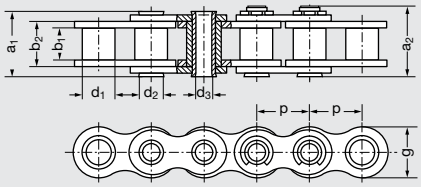
Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S	C	E	L
08 B – 2 KL	0,50	12,7	7,75	8,51	4,45	11,3	11,6	13,92	30,6	34,3	1,01	28 000	1,28		x	x	x
10 B – 2 KL	0,625	15,875	9,65	10,16	5,08	13,28	14,7	16,59	35,5	40,0	1,34	38 000	1,72		x	x	x
12 B – 2 KL	0,75	19,05	11,68	12,07	5,72	15,62	15,9	19,46	41,7	45,5	1,79	50 000	2,27		x	x	x
16 B – 2 KL	1,00	25,4	17,02	15,88	8,28	25,45	20,6	31,88	67,4	73,9	4,21	106 000	5,1			x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Hollow Pin Chains

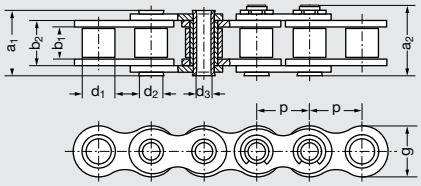
Flexible Transportation, Connecting and Joining

Type A, as Bush Chain



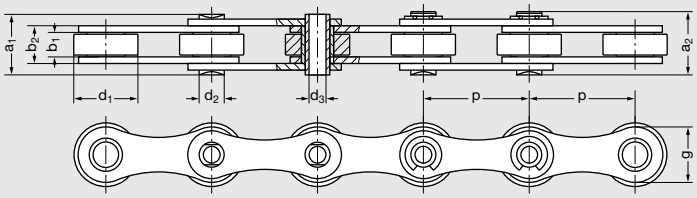
Roller link **B** | Pin link **A** | Connecting link spring clip **R**

Type B, as Roller Chain



Roller link **B** | Pin link **A** | Connecting link spring clip **R**

Type C, with Carrier Rollers



Roller link **B** | Pin link **A** | Connecting link spring clip **R**

Hollow Pin Chains, Single Strand, Main Dimensions acc. to European and American Standard

Chain No.	Type	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Hollow Pin Inner Diameter d_3 mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_2 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts C	Loose Parts R
10 B – 1 HB	B	0,625	15,875	9,65	10,16	5,94	4	13,9	14,7	–	19,3	21,1	1,14	17 000	0,80		x
12 B – 1 HB	B	0,75	19,05	11,68	12,07	6,5	4	16,3	15,9	–	22,4	24,0	1,06	21 000	1,10	x	x
40 HB	A	0,50	12,7	7,85	7,95 [1]	5,72	4	11,9	11,6	–	17,1	18,5	0,68	10 000	0,53		x
60 HB	B	0,75	19,05	12,57	11,91	7,0	5	18,65	17,7	–	26,3	27,2	1,30	20 000	1,32	x	x
80 HB	A	1,00	25,4	15,75	15,88 [1]	11,67	8	22,5	23,7	–	32,6	33,7	2,63	59 000	2,40	x	x
SK 845	C	2,00	50,8	10,0	30,0	11,6	8,1	16,8	25,6	–	26,4	28,6	1,95	50 000	2,06	x	x

Hollow Pin Chains, Double Strand, Main Dimensions acc. to European and American Standard

Chain No.	Type	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Hollow Pin Inner Diameter d_3 mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_2 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts C	Loose Parts R
10 B – 2 HB	B	0,625	15,875	9,65	10,16	5,94	4	13,9	14,7	17,8	37,3	39,0	2,08	33 500	1,6		x
12 B – 2 HB	B	0,75	19,05	11,68	12,07	6,5	4	16,3	15,9	20,6	43,0	45,0	2,12	42 500	2,2	x	x

1) Bushing diameter.

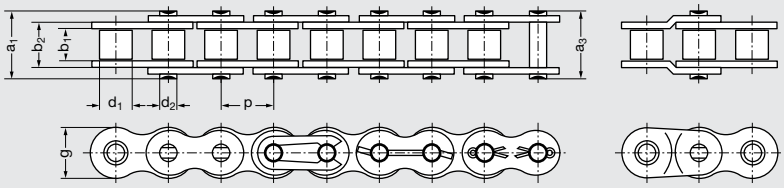
*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Stainless Steel Roller Chains
Rexnord 4000 Plus

Corrosion Resistant, Fatigue Resistant, and Wear Resistant

Rexnord „SS“-Roller Chains are made from Rexnord’s patented “Plus” Material.

Stainless Steel Roller Chains, Single Strand



Roller link	Pin link	Connecting link spring clip	Connecting link double cotter	Offset link double
B	A	E	S	C

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Trans-verse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts C	Loose Parts E	Loose Parts S
08 B – 1 SS	0,50	12,7	7,75	8,51	4,45	11,3	11,6	–	16,9	18,2	0,50	12 500	0,72	x	x	
10 B – 1 SS	0,625	15,875	9,65	10,16	5,08	13,28	14,6	–	18,9	20,5	0,67	14 500	0,95	x	x	
12 B – 1 SS	0,75	19,05	11,68	12,07	5,72	15,62	15,9	–	22,1	24,7	0,89	18 000	1,2	x	x	x
16 B – 1 SS	1,00	25,4	17,02	15,88	8,28	25,45	20,8	–	35,4	36,7	2,10	40 000	2,7	x	x	
50 SS	0,625	15,875	9,53	10,16	5,08	13,84	15,0	–	20,6	21,8	0,70	18 000	1,03	x	x	

Stainless Steel Roller Chains, Double Strand

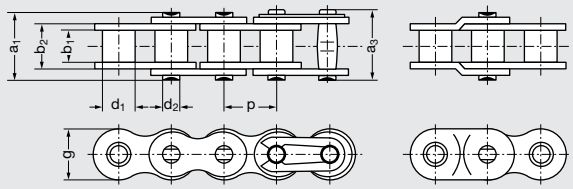
Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Trans-verse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts C	Loose Parts E	Loose Parts S
08 B – 2 SS	0,50	12,7	7,75	8,51	4,45	11,3	11,6	13,92	30,9	32,0	1,00	22 000	1,40	x	x	
10 B – 2 SS	0,625	15,875	9,65	10,16	5,08	13,28	14,6	16,59	35,5	38,6	1,34	26 000	1,85	x	x	
12 B – 2 SS	0,75	19,05	11,68	12,07	5,72	15,62	15,9	19,46	41,7	42,8	1,78	33 000	2,35	x	x	
16 B – 2 SS	1,00	25,4	17,02	15,88	8,28	25,45	20,8	31,88	67,1	68,6	4,20	73 000	5,2		x	
50 – 2 SS	0,625	15,875	9,53	10,16	5,08	13,84	15,0	18,11	38,6	33,9	1,40	36 000	2,0		x	

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

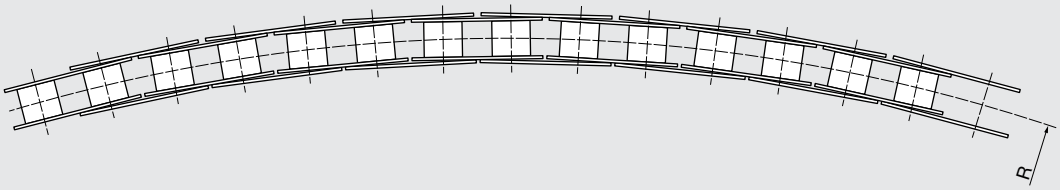
Side Bow Roller Chains

For Constructions with Curves

Links A and B available for all chains.
Side bow roller chains with attachments upon request.



Roller link **B** | Pin link **A** | Connecting link spring clip **E** | Offset link double **C**



Side Bow Roller Chains, Main Dimensions acc. to European Standard (DIN 8187)

Chain No.	Pitch p		Roller Width	Roller Diameter	Pin Diameter	Inner Width	Linkplate Height	Pin Width	Overall Width	Radius	Required *) Ultimate Strength min.	Weight	Loose Parts	
	inch	mm	b_1 min. mm	d_1 max. mm	d_2 max. mm	b_2 max. mm	g max. mm	a_1 max. mm	a_3 max. mm	R min.	F_B N	≈ q kg/m	C	E
08 B – 1 SB	0,50	12,7	7,75	8,51	4,45	11,3	11,8	17,1	18,3	315	11 200	0,71	x	x
10 B – 1 SB	0,625	15,875	9,65	10,16	5,08	13,28	14,7	19,4	20,6	400	15 000	0,92	x	x
12 B – 1 SB	0,75	19,05	11,68	12,07	5,72	15,61	15,9	22,5	23,7	500	20 000	1,2	x	x

Side Bow Roller Chains, Main Dimensions acc. to American Standard (DIN 8188)

Chain No.	Pitch p		Roller Width	Roller Diameter	Pin Diameter	Inner Width	Linkplate Height	Pin Width	Overall Width	Radius	Required *) Ultimate Strength	Weight	Loose Parts	
	inch	mm	b_1 min. mm	d_1 max. mm	d_2 max. mm	b_2 max. mm	g max. mm	a_1 max. mm	a_3 max. mm	R min.	F_B N	≈ q kg/m	C	E
40 SB	0,50	12,7	7,85	7,92	3,96	11,18	11,6	16,6	17,8	315	9 000	0,64	x	x
50 SB	0,625	15,875	9,4	10,16	5,08	13,84	14,6	20,8	22,1	400	15 000	1,1	x	x
60 SB	0,75	19,05	12,57	11,91	5,94	17,75	17,7	25,7	27,1	500	22 400	1,5	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

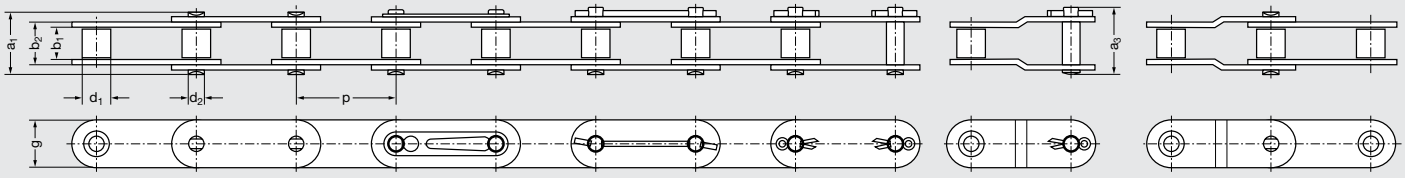
Double-Pitch Roller Chains

High Efficiency – Low Weight

Links A and B available for all chains.

1) Also available with Delrin Rollers.

Double-Pitch Roller Chains with Straight Link Plates, American Standard

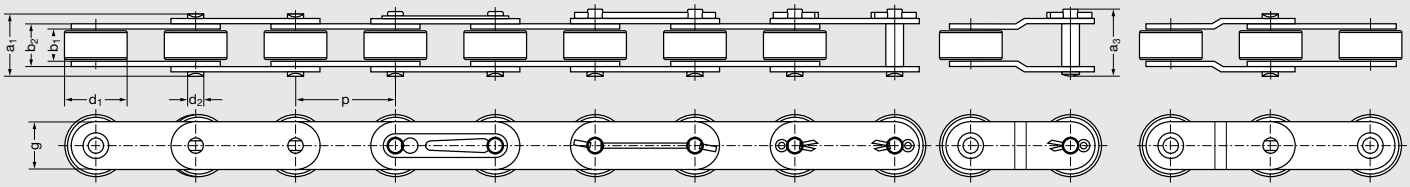


Roller link	Pin link	Connecting link spring clip	Connecting link single wire	Connecting link double cotter	Offset link single	Offset link double
B	A	E	G	S	L	C

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Request *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S G	C	E	L
C 2040	1,00	25,4	7,85	7,95	3,96	11,15	11,5	16,3	20,3	0,44	14 100	0,48	x	x	x	x
C 2050	1,25	31,75	9,4	10,16	5,08	13,8	14,5	20,3	24,5	0,7	22 200	0,80	x	x	x	x
C 2060 H	1,50	38,1	12,57	11,91	5,94	19,4	16,8	28,8	32,9	1,15	31 800	1,49	x	x	x	x
C 2080 H	2,00	50,8	15,75	15,88	7,92	24,2	22,8	35,3	41,0	1,92	56 700	2,36	x	x		

*) Breaking load is only a static value. Since almost every drive will be dynamically loaded, on request, we shall advise the effective higher Rexnord breaking load values as well as our effective fatigue resistance values.

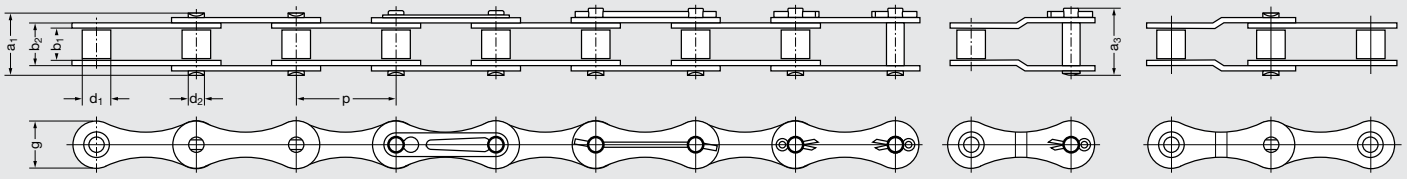
Double-Pitch Roller Chains with Straight Link Plates and Carrier Rollers, American Standard



Roller link	Pin link	Connecting link spring clip	Connecting link single wire	Connecting link double cotter	Offset link single	Offset link double
B	A	E	G	S	L	C

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Request *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts SG	C	E	L
C 2042	1,00	25,4	7,85	15,88	3,96	11,15	11,5	16,3	20,3	0,44	14 100	0,85	x		x	x
C 2052	1,25	31,75	9,4	19,05	5,08	13,8	14,5	20,3	24,5	0,7	22 200	1,27	x		x	x
C 2062 H [1])	1,50	38,1	12,57	22,23	5,94	19,4	16,8	28,8	32,0	1,15	31 800	2,1	x	x	x	x
C 2082 H [1])	2,00	50,8	15,75	28,58	7,93	24,2	22,8	35,9	41,0	1,94	56 700	3,44	x	x		

Double-Pitch Roller Chains



Roller link	Pin link	Connecting link spring clip	Connecting link single wire	Connecting link double cotter	Offset link single	Offset link double
B	A	E	G	S	L	C

European Standard

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Request *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts SG	C	E	L
208 B	1,00	25,4	7,75	8,51	4,45	11,3	11,5	16,7	18,9	0,50	18 000	0,45	x	x	x	x
210 B	1,25	31,75	9,65	10,16	5,08	13,28	14,5	18,9	21,8	0,67	22 400	0,59	x	x	x	x
212 B	1,50	38,1	11,68	12,07	5,72	15,62	15,9	22,3	24,7	0,89	29 000	0,74	x	x	x	x
216 B	2,00	50,8	17,02	15,88	8,28	25,4	21,4	35,4	38,4	2,10	60 000	1,71	x	x		x

American Standard

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Request *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts SG	C	E	L
208 A	1,00	25,4	7,85	7,95	3,96	11,15	11,5	16,3	19,8	0,44	14 100	0,42	x	x	x	x
210 A	1,25	31,75	9,4	10,16	5,08	13,8	14,5	20,3	24,5	0,7	22 200	0,67	x	x	x	x
212 A	1,50	38,1	12,57	11,91	5,94	17,7	16,8	25,7	29,6	1,05	31 800	1,02	x	x	x	x
216 A	2,00	50,8	15,75	15,88	7,92	22,5	21,4	33,0	37,4	1,78	56 700	1,55	x	x		x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Agricultural Roller Chains

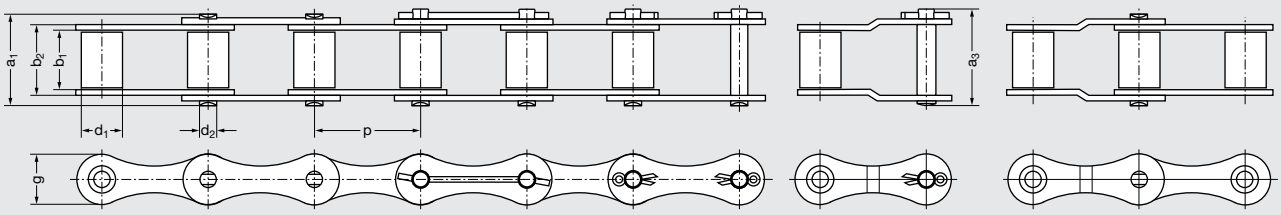
Reliable and Fatigue Resistant – Even in Rough Applications

For double-pitch roller chains as well as for chains of the agricultural series (S-series) we can offer a far reaching programme of standard and special carriers and attachments.

See our Agricultural Chain catalogue.

V ≙ Reinforced.
☐ Offset link wire.
○ Connecting pin.
1) Chains with straight link plates.
△ Also available as bush HL 728 resp. HL 738 (bush ∅ 10,2 mm).

Agricultural Roller Chains, ISO 487 / DIN 8189



Roller link	Pin link	Connecting link single wire	Connecting link double cotter	Offset link single	Offset link double
B	A	G	S	L	C

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts S G	Loose Parts C	Loose Parts L	
S 32 V	1,15	29,21	15,88	11,43	4,45	20,19	12,3	26,3	29,6	0,90	18 000	0,82	x		x	
S 42 V	1,375	34,93	19,05	14,27	7,0	25,4	17,5	33,9	38,5	1,78	33 500	1,49	x		x	
S 45	1,63	41,4	22,23	15,24	5,72	28,58	16,8	37,4	40,6	1,63	25 000	1,55	x	x	x	
S 45 V	1,63	41,4	22,23	15,24	5,72	28,58	16,8	37,4	40,6	1,63	33 500	1,55	x	x	x	
S 52	1,50	38,1	22,23	15,24	5,72	28,58	16,8	37,4	40,6	1,63	25 000	1,72	x	x	x	
S 52 V	1,50	38,1	22,23	15,24	5,72	28,58	16,8	37,4	40,6	1,63	33 500	1,72	x	x	x	
S 55	1,63	41,4	22,23	17,78	5,72	28,58	16,8	37,4	40,6	1,63	25 000	1,80	x	x	x	
S 55 V	1,63	41,4	22,23	17,78	5,72	28,58	16,8	37,4	40,6	1,63	33 500	1,80	x	x	x	
S 62	1,65	41,91	25,4	19,05	5,72	31,8	16,7	39,9	43,8	1,82	28 000	1,95	x		x	
S 77	2,30	58,34	22,23	18,26	8,9	31,17	24,6	43,5	49,2	2,77	45 000	2,35	x		x	
S 88	2,60	66,27	28,58	22,86	8,9	37,52	24,6	49,9	55,0	3,34	45 000	2,78	x		x	

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Agricultural Roller Chains, Industry Standard

Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts SG	C	L	
SK 627	1,18	30,0	19,0	15,88	8,28	25,4	20,5	35,4	39,0	2,1	45 000	2,42	x			
RL 726	1,50	38,1	16,0	15,24	5,72	21,07	16,8	29,3	33,8	1,20	33 500	1,32	x			
RL 728 [1] △	1,50	38,4	18,5	15,88	6,92	24,2	17,0	32,6	36,5	1,67	25 000	1,67	x	x	x□	
RL 738 [1] △	1,50	38,4	18,5	15,88	6,92	24,2	17,0	32,6	36,5	1,67	31 500	1,67	x	x	x□	
SK 717 [1]	1,50	38,4	19,0	15,88	8,28	25,4	20,0	35,4	39,0	2,1	45 000	2,10	x	x	x□	
RL 753	1,63	41,4	20,5	15,88	7,97	27,0	19,7	37,0	41,6	2,15	42 500	1,75	x	x	x	
RL 764	1,63	41,4	22,23	17,78	8,28	28,58	19,7	38,9	42,8	2,36	47 500	2,03	x		x	
RL 765	1,63	41,4	20,0	15,88	8,28	28,58	20,0	38,9	44,8	2,36	60 000	1,91	x	x	x	
RL 766 [1]	1,63	41,4	22,23	15,88	8,28	31,0	20,2	41,4	44,6	2,56	60 000	2,40				○
RL 774	1,63	41,4	19,5	16,66	7,16	26,0	19,5	35,4	39,7	1,86	47 500	2,00	x		x	
SK 838	2,00	50,8	19,0	19,05	9,53	27,4	25,7	39,4	–	2,61	90 000	2,60	G			

Agricultural Roller Chains with Thermoplastic Bearings

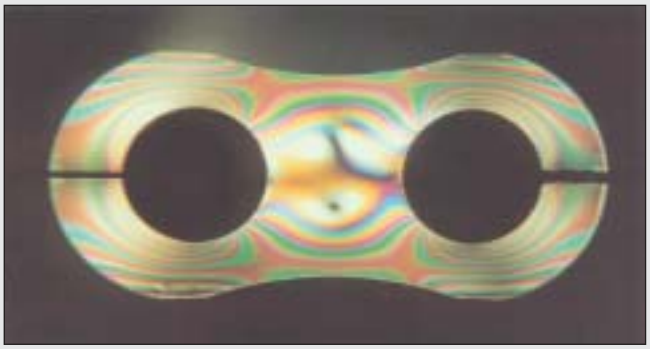
Chain No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Linkplate Height g max. mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required *) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Loose Parts SG	C	L	
RLK 728 [1] △	1,50	38,4	18,5	15,88	6,92	24,2	17,2	32,6	35,8	1,67	23 600	1,63	x	x	x	
RLK 744	1,63	41,4	22,23	17,78	5,72	28,58	17,2	36,7	39,8	1,63	25 000	1,77	x		x	
RLK 753	1,63	41,4	20,5	16,0	7,97	27,0	20,0	37,0	40,8	2,15	35 500	1,70	x	x	x	

*) Breaking load is only a static value. Since almost every drive will be dynamically loaded, on request, we shall advise the effective higher Rexnord breaking load values as well as our effective fatigue resistance values.

Marine Diesel Roller Chains

Extended service reliability achieved by optimum fatigue resistance

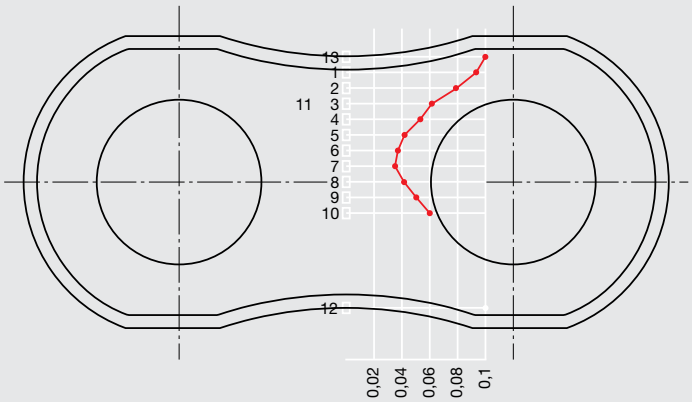
Photo of an inner link plate with new design.



Optical illustration of stress lines.

The shape of the new designed Rexnord inner link plate results in the greatest possible fatigue resistance value.

During research and development parameters like link plate height and other features such as plate thickness, eccentric profile of link plate head, material strength and manufacturing methods were all considered.



Measuring of tension in the link plate by means of wire strain gauge.

Rexnord research findings

The plate of the inner link is the specific part of a roller chain which determines the fatigue resistance and in consequence the safety of the complete roller chain.

Only a chain with highest fatigue resistance guarantees a trouble-free running during whole wear life.

As a result of extensive research and development a new plate design has been developed which increases fatigue resistance by more than 30 %.

Full stress analysis has been carried out to balance the link plate height limitation with the cross section and the increase of length in link plate head.

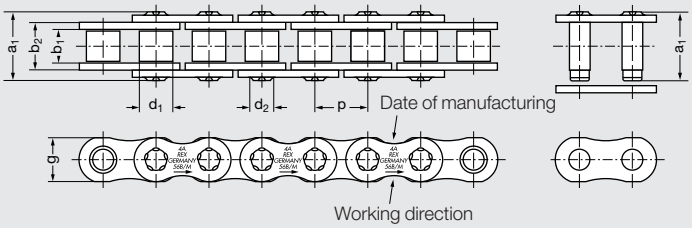
Assembly of the connecting link

Easy assembly and joining of chains is possible. Due to the shoulder on the connecting pin and the fact that head of the pin's not hardened.

Note:

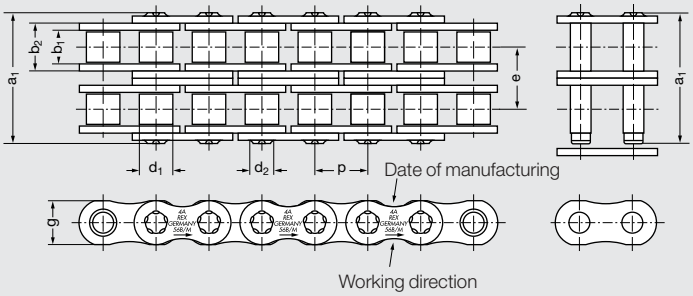
Marine Diesel Roller Chains should also be considered for use on critical drives in industrial applications. They would be particularly advantageous on drives operating on the limits of standard Roller Chain, as well as those drives requiring high efficiency and reliability, but especially to replace chain drives susceptible to fatigue fractures.

Roller Chains, Single Strand, DIN 8187 / ISO R 606 (Marine Diesel)



Chain No.	Pitch p		Roller Width	Roller Diameter	Pin Diameter	Inner Width	Linkplate Height	Transverse	Pin Width	Bearing Area	Required *) Ultimate Strength min.	Weight
	inch	mm	b_1 min. mm	d_1 max. mm	d_2 max. mm	b_2 max. mm	g max. mm	e mm	a_1 max. mm	A cm^2	F_B N	≈ q kg/m
40 B – 1 M	2,50	63,5	38,1	39,37	22,89	55,7	55,3	–	82,6	12,75	355 000	17,0
48 B – 1 M	3,00	76,2	45,72	48,26	29,24	70,5	65,3	–	98,5	20,63	560 000	26,0
56 B – 1 M	3,50	88,9	53,34	53,98	34,32	81,3	80,3	–	114,0	27,9	850 000	37,0
64 B – 1 M	4,00	101,6	60,96	63,5	39,4	92,0	93,3	–	130,0	36,25	1 120 000	50,0
72 B – 1 M	4,50	114,3	68,58	72,39	44,5	103,0	105,3	–	147,0	46,19	1 400 000	65,0

Roller Chains, Double Strand, DIN 8187 / ISO R 606 (Marine Diesel)



Attention: If multiple strands of single chains are used in the same drive all strands must be delivered as a matched pair or group. Please indicate when ordering.

Chain No.	Pitch p		Roller Width	Roller Diameter	Pin Diameter	Inner Width	Linkplate Height	Transverse	Pin Width	Bearing Area	Required *) Ultimate Strength min.	Weight
	inch	mm	b_1 min. mm	d_1 max. mm	d_2 max. mm	b_2 max. mm	g max. mm	e mm	a_1 max. mm	A cm^2	F_B N	≈ q kg/m
40 B – 2 M	2,50	63,5	38,1	39,37	22,89	55,7	55,3	72,29	154,0	25,5	630 000	34,0
48 B – 2 M	3,00	76,2	45,72	48,26	29,24	70,5	65,3	91,21	190,0	41,23	1 000 000	53,0
56 B – 2 M	3,50	88,9	53,34	53,98	34,32	81,3	80,3	106,6	221,0	55,8	1 600 000	74,0
64 B – 2 M	4,00	101,6	60,96	63,5	39,4	92,0	93,3	119,89	250,0	72,5	2 000 000	98,0
72 B – 2 M	4,50	114,3	68,58	72,39	44,5	103,8	105,3	136,27	283,0	92,4	2 500 000	128,0

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

Matching of timing roller chains

If two or more chains for the same drive are being used an exact matching of chains is of utmost importance.

Rexnord method of matching of individual chain length and selective composition of these length ensures extreme high precision over the complete chain length.

Rexnord chains guarantee even load distribution between chains and sprockets.

Rexnord chain matching meets all requirements of engine manufacturers.

Quality features of Rexnord Marine Diesel Roller Chains

- Rexnord chain parts are all shot-peened.
- Rexnord link plate bores are produced to very high tolerances and surface finish.
- Rexnord chain pins and bushings are especially wear resistant due to large case depths.
- Rexnord chains are preloaded.
- Rexnord chain rollers have a high strength because they are through hardened and manufactured from high precision seamless tube.
- Rexnord chains manufacture is supported by the expertise built up over many generations an backed by material, production and inspection data which is kept for 10 years.
- Rexnord chains are precision made which results in an even load distribution.
- Rexnord offers a complete quality assurance in each production step.
- Rexnord Marine Diesel roller chains have exceptionally high fatigue resistance to give complete reliability.