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.

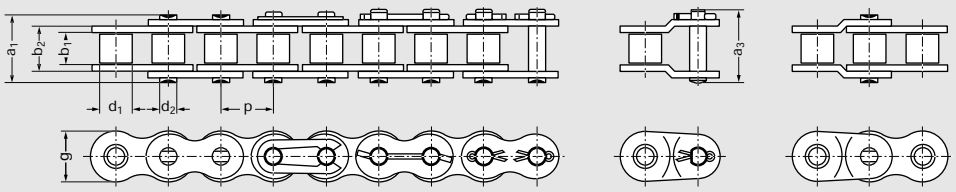
Available upon request: Our Oilfield Roller Chain Catalogue with 4 to 8 strand roller chains ANSI.

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

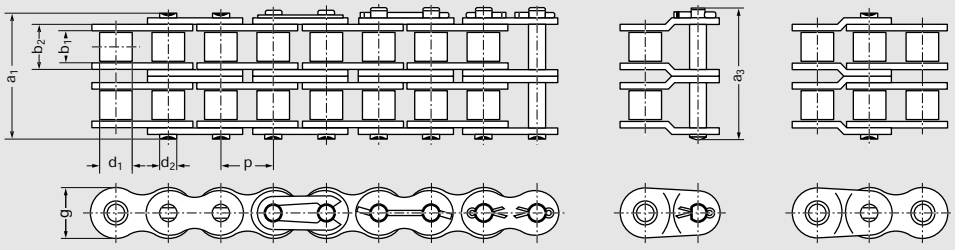


Roller link	Pin link	Connecting link spring clip	Connecting link double cotter	Offset link single	Offset link double
B	**A**	**E**	**S**	**L**	**C**

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.

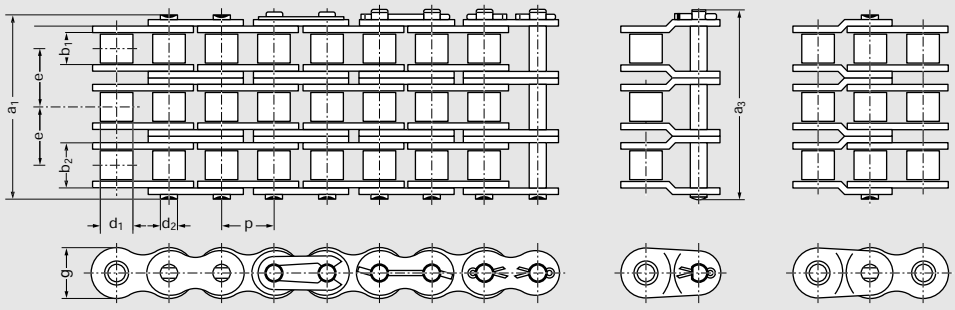
Roller Chains, Double Strand, DIN 8188 / ANSI



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.

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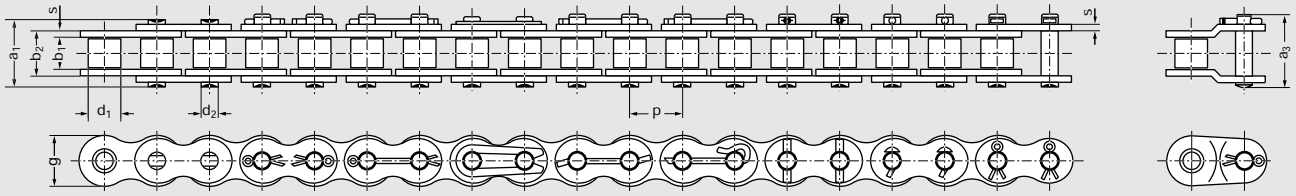
Large Pitch Roller Chains for high demands

Links A and B available for all chains.

Roller Chains, Single Strand, DIN 8188 / ANSI

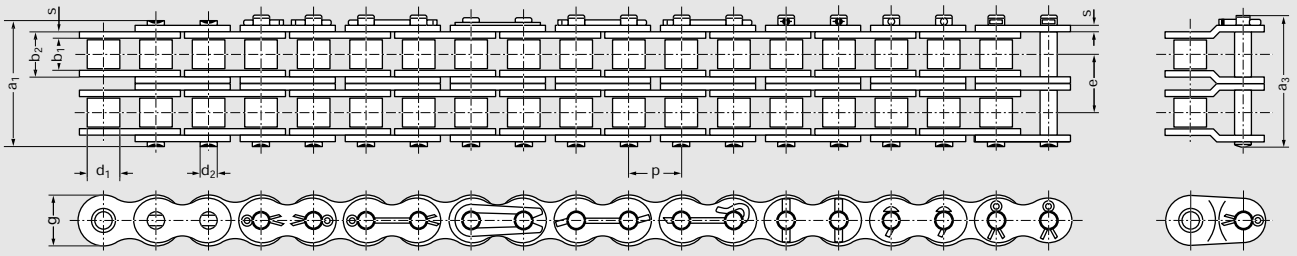


Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

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.

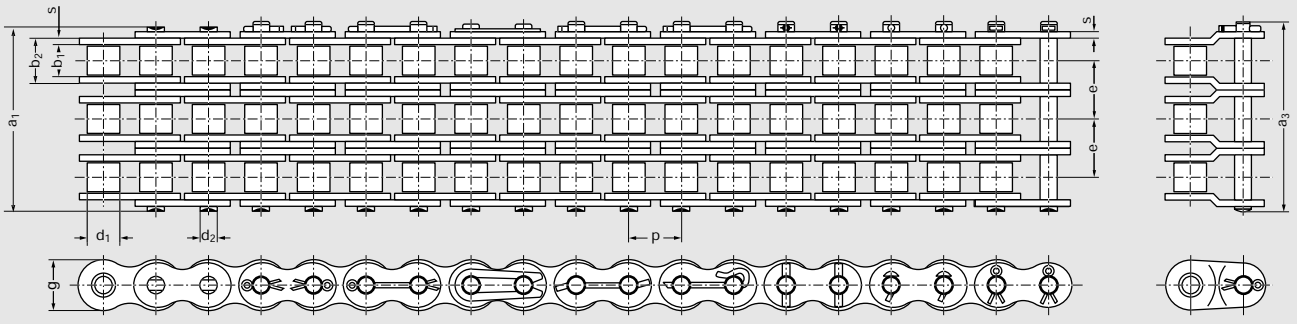
Roller Chains, Double Strand, DIN 8188 / ANSI



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.