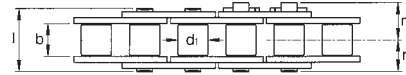
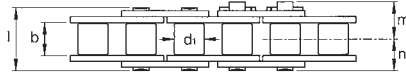
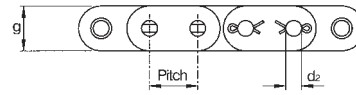
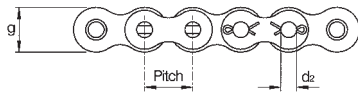


# American Standard Precision Roller Chains

## Simplex (Single Strand) Construction

Conforming to ANSI B29.1 and ISO 606\*



Standard Roller Chains

Straight Sideplate Roller Chains

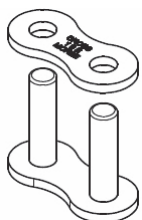
\*ISO 606 covers Standard Series Chains only

	ANSI No.	Pitch P inches	Inside Width b min mm	Roller Ø d <sub>1</sub> max. mm	Pin Ø d <sub>2</sub> max. mm	Plate Depth g mm	Rivet Pin Length l max. mm	Length to Cotter Pin m mm	Length to Rivet Pin n mm	Bearing Area cm <sup>2</sup>	Tensile Strength N	Approx Weight kg/m
Standard Series Chains (complying to ANSI b29.1)	25	¼ inch	3.18	3.30 <sup>1)</sup>	2.29	6.0	7.9	4.5	4.0	0.11	3,500	0.15
	35	⅜ inch	4.77	5.08 <sup>1)</sup>	3.58	9.0	12.4	7.0	6.2	0.27	7,900	0.33
	41	½ inch	6.35	7.77	3.58	9.9	13.8	8.1	6.9	0.32	6,670	0.41
	40	½ inch	7.85	7.95	3.96	12.0	16.6	9.5	8.3	0.44	14,100	0.62
	50	⅝ inch	9.40	10.16	5.08	15.1	20.7	11.9	10.4	0.70	22,200	1.02
	60	¾ inch	12.60	11.91	5.94	18.0	25.9	14.8	13.0	1.06	31,800	1.50
	80	1 inch	15.80	15.88	7.92	24.0	32.7	19.1	16.4	1.79	56,700	2.60
	100	1¼ inch	19.00	19.05	9.53	30.0	40.4	24.5	20.2	2.62	88,500	3.91
	120	1½ inch	25.25	22.23	11.10	35.7	50.3	29.2	25.2	3.94	127,000	5.62
	140	1¾ inch	25.25	25.40	12.70	41.0	54.4	31.8	27.2	4.72	172,400	7.50
	160	2 inch	31.55	28.58	14.27	47.8	64.8	37.2	32.4	6.50	226,800	10.10
	200	2½ inch	37.85	39.68	19.85	60.0	80.3	47.1	40.2	10.90	353,800	16.15
Heavy Series Chains Have link plates of increased thickness to resist fatigue failure from shock or pulsating loads, as are often encountered in rugged construction equipment & mining machinery.	60H	¾ inch	12.60	11.91	5.94	18.0	29.2	16.4	14.6	1.15	31,800	1.87
	80H	1 inch	15.80	15.88	7.92	24.0	36.2	19.6	18.1	1.92	56,700	3.10
	100H	1¼ inch	19.00	19.05	9.53	30.0	43.6	25.1	21.8	2.77	88,500	4.52
	120H	1½ inch	25.25	22.23	11.1	35.7	53.5	30.8	26.8	4.12	127,000	6.60
	140H	1¾ inch	25.25	25.40	12.7	41.0	57.6	33.4	28.8	4.93	172,400	8.30
	160H	2 inch	31.55	28.58	14.27	47.8	68.2	38.9	34.1	6.69	226,800	10.30

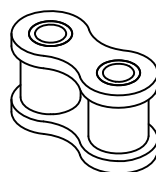
• ANSI 25 and 35 are Bush Chains to ISO 1395

1) Bush Diameter

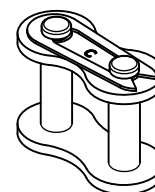
## Spares for Std. Chains



**Pin Unit (Rivetting Outer Links)**  
Available all sizes of chain. Press fit unit to connect chains for maximum performance  
Part Ref. 79



**Roller Unit (Inner Link)**  
Available all sizes of chain to extend chain length or manufacture of special build chains.  
Part Ref. 77



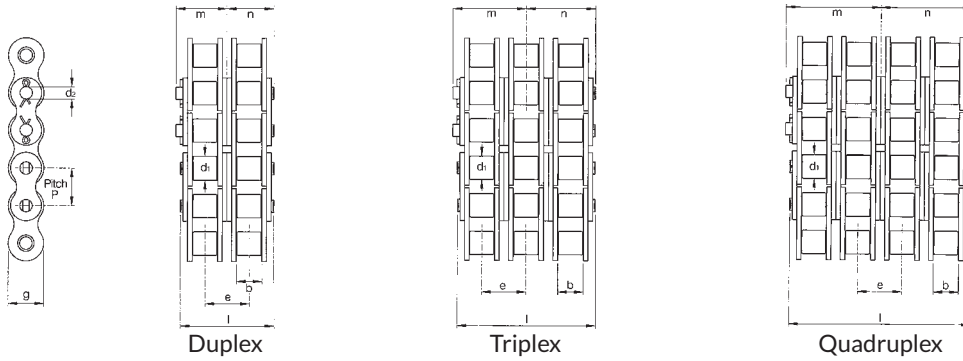
**Connecting Link (Spring Clip Type)**  
Standard all chains to 1 inch pitch. Should be assembled with open end away from running direction of chain.  
Part Ref. 76

# American Standard Precision Roller Chains

## Multi-Strand Constructions



Conforming to ANSI B29.1 and ISO 606\*



\*ISO 606 covers Duplex and Triplex construction only.

### Duplex Chains

• 25-2 & 35-2 Bush Chains to ISO 1395

1) Bush diameter.

ANSI No.	Pitch P	Inside Width b mm	Roller Diameter d1 mm	Pin Diameter d2 mm	Plate Depth g mm	Transverse Pitch e mm	Pin Lengths			Bearing Area cm <sup>2</sup>	Tensile Strength kN	Approx. Weight kg/m
							l mm	m mm	n mm			
•25-2	¼ inch	3.18	3.30 1)	2.29	6.0	6.40	14.5	7.8	7.3	0.22	7,000	0.28
•35-2	⅝ inch	4.77	5.08 1)	3.58	9.0	10.13	22.5	12.1	11.3	0.54	15,800	0.63
40-2	½ inch	7.85	7.95	3.96	12.0	14.38	31.0	16.7	15.5	0.88	28,200	1.26
50-2	⅝ inch	9.40	10.16	5.08	15.1	18.11	38.9	21.0	19.5	1.40	44,400	2.00
60-2	¾ inch	12.60	11.91	5.94	18.0	22.78	48.8	26.1	24.4	2.12	63,600	2.92
80-2	1 inch	15.80	15.88	7.92	24.0	29.29	62.7	32.9	31.4	3.58	113,400	5.15
100-2	1¼ inch	19.00	19.05	9.53	30.0	35.76	76.4	42.3	38.2	5.24	177,000	7.80
120-2	1½ inch	25.25	22.23	11.10	35.7	45.44	95.8	51.8	47.9	7.88	254,000	11.70
140-2	1¾ inch	25.25	25.40	12.70	41.0	48.87	103.3	56.3	51.7	9.44	344,800	15.14
160-2	2 inch	31.55	28.58	14.27	47.8	58.55	123.3	66.5	61.7	13.00	453,600	20.14
200-2	2½ inch	37.85	39.68	19.85	60.0	71.55	151.9	82.9	76.0	21.80	707,600	32.24

### Triplex Chains

• 25-3 & 35-3 Bush Chains to ISO 1395

1) Bush diameter.

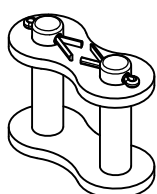
•25-3	¼ inch	3.18	3.30 1)	2.29	6.0	6.40	21.0	11.0	10.5	0.33	10,500	0.44
•35-3	⅝ inch	4.77	5.08 1)	3.58	9.0	10.13	32.7	17.2	16.4	0.81	23,700	1.05
40-3	½ inch	7.85	7.95	3.96	12.0	14.38	45.4	23.9	22.7	1.32	42,300	1.90
50-3	⅝ inch	9.40	10.16	5.08	15.1	18.11	57.0	30.0	28.5	2.10	66,600	3.09
60-3	¾ inch	12.60	11.91	5.94	18.0	22.78	71.5	37.6	35.8	3.18	95,400	4.54
80-3	1 inch	15.80	15.88	7.92	24.0	29.29	91.7	47.8	45.9	5.37	170,100	7.89
100-3	1¼ inch	19.00	19.05	9.53	30.0	35.76	112.2	60.2	56.1	7.86	265,500	11.77
120-3	1½ inch	25.25	22.23	11.10	35.7	45.44	141.4	74.5	70.7	11.82	381,000	17.53
140-3	1¾ inch	25.25	25.40	12.70	41.0	48.87	152.2	80.7	76.1	14.16	517,200	22.20
160-3	2 inch	31.55	28.58	14.27	47.8	58.55	181.8	95.7	90.9	19.50	680,000	30.02

### Quadruplex Chains

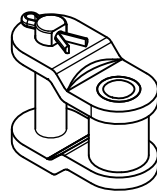
40-4	½ inch	7.85	7.95	3.96	12.0	14.38	59.8	31.1	29.9	1.76	56,400	2.54
60-4	¾ inch	12.60	11.91	5.94	18.0	22.78	94.3	49.0	47.2	4.24	127,200	6.16
80-4	1 inch	15.80	15.88	7.92	24.0	29.29	121.0	62.4	60.5	7.16	226,800	10.63
100-4	1¼ inch	19.00	19.05	9.53	30.0	35.76	148.0	78.1	74.0	10.48	354,000	15.74
120-4	1½ inch	25.25	22.23	11.10	35.7	45.44	186.8	97.2	93.4	15.76	508,000	23.36
140-4	1¾ inch	25.25	25.40	12.70	41.0	48.87	201.1	105.2	100.6	18.88	689,600	29.26
160-4	2 inch	31.55	28.58	14.27	47.8	58.55	240.4	125.0	120.2	26.00	907,200	39.90

All dimensions in mm unless otherwise indicated.

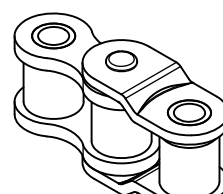
## Spares for Std. Chains



Connecting Link (Cottered Type)  
For chains over 1" Pitch, for easy chain assembly  
Part Ref. 75



Single Crank Link  
Used to make chains of Odd Pitch Lengths - Standard on chains over 1" pitch and optional on chains up to 1".  
Part Ref. 87



Double Crank Link  
Preferred to Single Crank Link for small pitch chains. Available all chains to 1" pitch.  
Part Ref. 86