

# *Corrosion Resistant Chain*



**RENOLD**

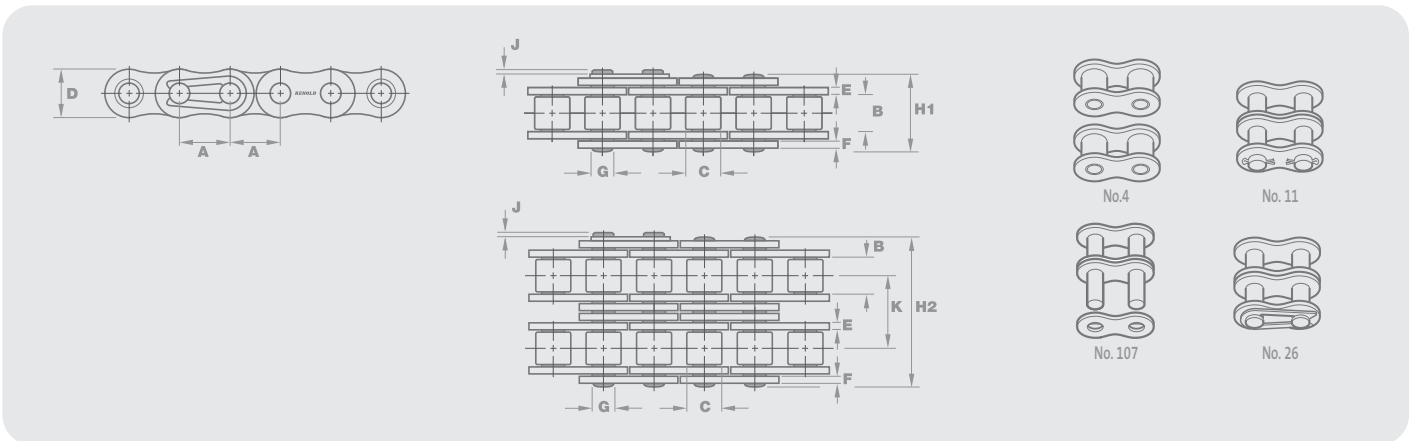
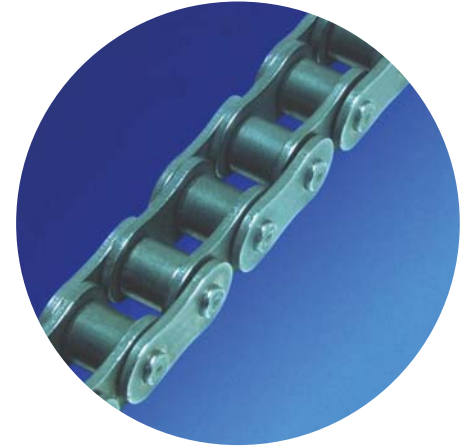
*Superior Chain Technology*

# Hydro-Service

Renold Hydro-Service chain delivers superior corrosion resistance, lasting as much as 30 times longer than standard carbon steel in applications that have to deal with water or salt spray. It is ideal for wash-down environments. Hydro-Service chain is also more economical, and stronger, than stainless steel.

Each component is mechanically treated prior to assembly to ensure consistent, secure protection. The surface treatment is free of hexavalent chrome, complying with legislation relating to environmental and health & safety considerations.

- Superior corrosion resistance
- Last as much as 30 times longer than standard carbon steel
- Hexavalent chrome free
- 350 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance



## Hydro-Service BS Standard - simplex

Dimensions (mm)

Connecting links

Renold Chain No.	ISO No.	Pitch (inch)	Pitch (mm)	Inside Width Min	Roller Diam Max	Plate Height Max	Plate Width Inner Max	Plate Width Outer Max	Pin Diam Max	Pin Length Max	Con Link Extra Max	ISO606 Tensile Strength Min (N)	Weight kg/m	No. 4	No. 107	No. 11	No. 58	No. 26	No. 12	No. 30
														A	A	B	C	D	E	F
530038	06B-1	0.375	9.525	5.72	6.35	8.20	1.29	1.04	3.28	12.5	1.3	8900	0.39	✓	✓	-	-	✓	-	✓
530046	08B-1	0.500	12.700	7.75	8.51	11.70	1.55	1.55	4.45	16.5	2.0	17800	0.70	✓	✓	-	-	✓	-	✓
530056	10B-1	0.625	15.875	9.65	10.16	14.60	1.55	1.55	5.08	18.8	2.5	22200	0.96	✓	✓	-	-	✓	-	✓
530066	12B-1	0.750	19.050	11.68	12.07	16.00	1.81	1.81	5.72	21.9	2.6	28900	1.22	✓	✓	-	-	✓	-	✓
530088	16B-1	1.000	25.400	17.02	15.88	21.08	4.12	3.10	8.28	36.1	2.2	60000	2.80	✓	✓	-	-	✓	✓	-
530106	20B-1	1.250	31.750	19.56	19.05	26.42	4.62	3.61	10.19	39.8	2.7	95000	3.85	✓	✓	-	-	✓	✓	-
530127	24B-1	1.500	38.100	25.40	25.40	33.40	6.10	5.08	14.63	52.6	6.8	160000	7.45	✓	✓	✓	-	✓	✓	-

## Hydro-Service ANSI Standard - simplex

Dimensions (mm)

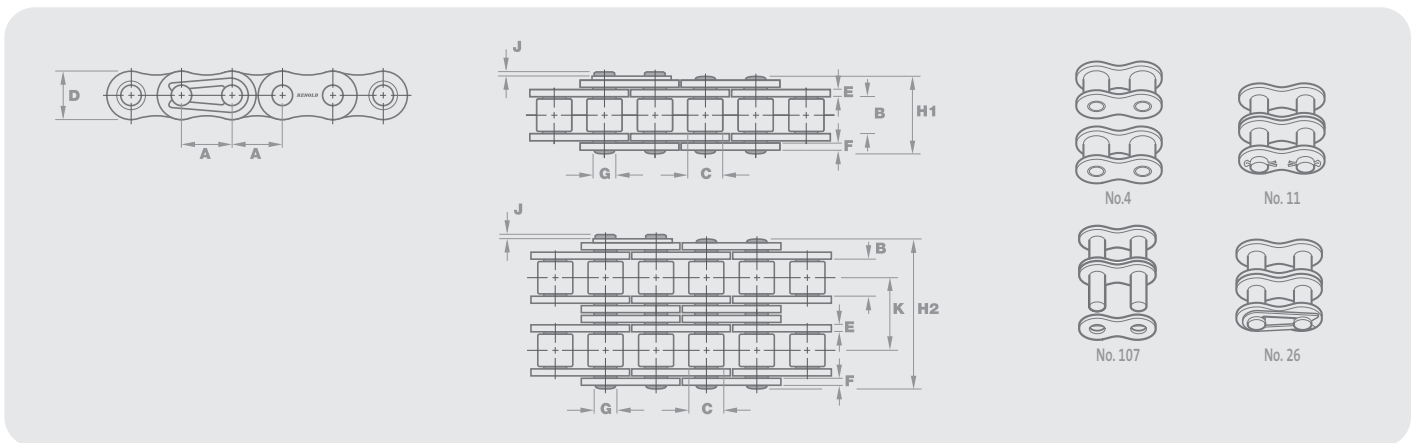
		A	A	B	C	D	E	F	G	H1	J	(N)								
25HSC	25-1	0.250	6.350	3.10	3.30	5.90	0.76	0.76	2.30	7.9	1.2	3500	0.12	✓	✓	-	-	✓	-	✓
35HSC	35-1	0.375	9.525	4.68	5.08	8.60	1.29	1.29	3.59	12.0	1.7	7900	0.35	✓	✓	-	-	✓	-	✓
40HSC	40-1	0.500	12.700	7.85	7.92	11.20	1.55	1.55	3.97	16.4	2.1	13900	0.60	✓	✓	-	-	✓	-	✓
41HSC	41-1	0.500	12.700	6.35	7.77	9.91	1.30	1.30	3.59	14.5	2.1	6700	0.42	✓	✓	-	-	✓	-	✓
50HSC	50-1	0.625	15.875	9.40	10.16	14.60	2.04	2.04	5.08	20.4	2.7	21800	1.00	✓	✓	✓	-	✓	✓	✓
60HSC	60-1	0.750	19.050	12.57	11.91	17.50	2.45	2.45	5.94	25.3	2.6	31300	1.47	✓	✓	✓	-	✓	✓	✓
80HSC	80-1	1.000	25.400	15.75	15.88	24.13	3.25	3.25	7.94	32.7	3.0	55600	2.80	✓	✓	✓	✓	-	✓	-
100HSC	100-1	1.250	31.750	18.90	19.05	30.17	4.06	4.06	9.54	39.7	4.2	87000	4.20	✓	✓	✓	✓	-	✓	-
120HSC	120-1	1.500	38.100	25.23	22.23	36.20	4.80	4.80	11.11	49.3	5.3	125000	5.70	✓	✓	✓	✓	-	✓	-
140HSC	140-1	1.750	44.450	25.23	25.40	42.23	5.61	5.61	12.71	52.9	5.2	170000	7.80	✓	✓	✓	✓	-	✓	-

# Zinc Plated chain

This is a new zinc plating from Renold. Ideal for applications susceptible to light corrosion, the new plating has one consistent appearance, replacing the yellow and blue chromated versions previously available and delivering the same high levels of corrosion resistance.

Every component is plated before assembly and the chain has improved wear resistance under normal loads due to the new surface treatment.

- Hexavalent chrome free
- 250 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance
- Tensile strength is approximately 85% that of standard carbon steel chain



## Zinc Plated chain BS Standard - simplex

Dimensions (mm)

Connecting links

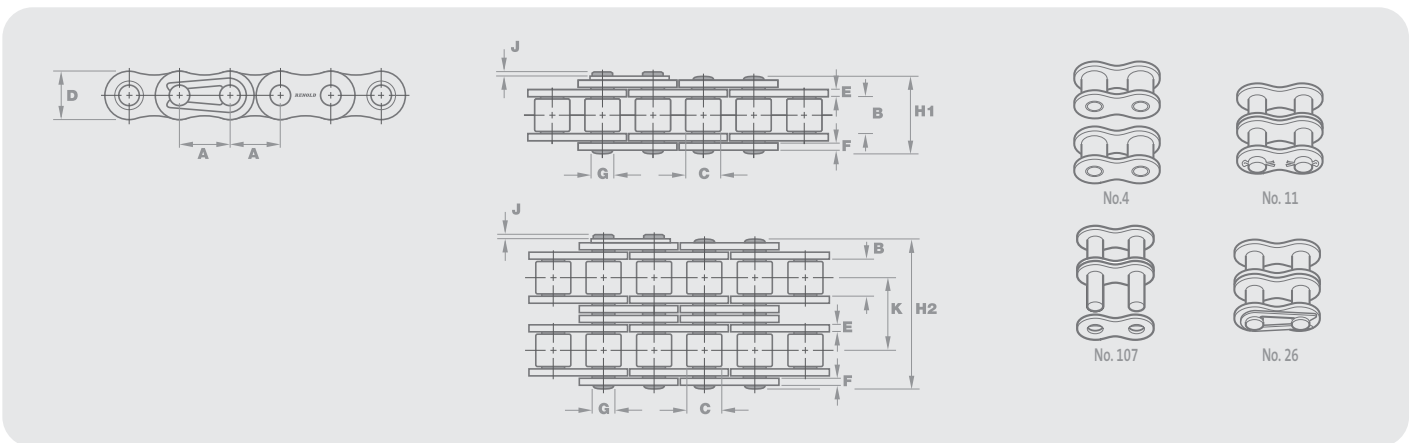
Renold Chain No.	ISO No.	Pitch (inch)	Pitch (mm)	Inside Width Min	Roller Diam Max	Plate Height Max	Plate Width Inner Max	Plate Width Outer Max	Pin Diam Max	Pin Length Max	Con Link Extra Max	Minimum Tensile Strength	Weight kg/m	Connecting links							
														No. 4	No. 107	No. 11	No. 58	No. 26	No. 12	No. 30	
		A	A	B	C	D	E	F	G	H1	J	(N)									
581015	06B-1	0.375	9.525	5.72	6.35	8.20	1.29	1.04	3.28	12.5	1.3	7565	0.39	✓	✓	-	-	✓	-	✓	
581803	08B-1	0.500	12.700	7.75	8.51	11.70	1.55	1.55	4.45	16.5	2.0	15130	0.70	✓	✓	-	-	✓	-	✓	
583109	10B-1	0.625	15.875	9.65	10.16	14.60	1.55	1.55	5.08	18.8	2.5	18870	0.96	✓	✓	-	-	✓	-	✓	
583620	12B-1	0.750	19.050	11.68	12.07	16.00	1.81	1.81	5.72	21.9	2.6	24565	1.22	✓	✓	-	-	✓	-	✓	
584319	16B-1	1.000	25.400	17.02	15.88	21.08	4.12	3.10	8.28	34.9	2.2	51000	2.80	✓	✓	-	-	✓	✓	-	
585187	20B-1	1.250	31.750	19.56	19.05	26.42	4.62	3.61	10.19	39.8	2.7	80750	3.85	✓	✓	-	-	✓	✓	-	
585466	24B-1	1.500	38.100	25.40	25.40	33.40	6.10	5.08	14.63	52.6	6.8	136000	7.45	✓	✓	✓	-	-	✓	-	

ANSI chain available on request

# Nickel Plated chain

Renold Nickel Plated chain delivers excellent corrosion protection. Ideal for applications such as bottling where spillages can lead to corrosion the specification for this chain is designed to optimise its performance. Every modification is made to push the wear and fatigue resistance to the maximum as well as delivering corrosion resistance.

- Hexavalent chrome free
- 400 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance
- Tensile strength is approximately 85% that of standard carbon steel chain



## Nickel Plated chain BS Standard - simplex

Dimensions (mm)

Connecting links

Renold Chain No.	ISO No.	Pitch (inch)	Pitch (mm)	Inside Width Min	Roller Diam Max	Plate Height Max	Plate Width Inner Max	Plate Width Outer Max	Pin Diam Max	Pin Length Max	Con Link Extra Max	Minimum Tensile Strength (N)	Weight kg/m	No. 4	No. 107	No. 11	No. 58	No. 26	No. 12	No. 30
		A	A	B	C	D	E	F	G	H1	J	(N)								
550038	06B-1	0.375	9.525	5.72	6.35	8.20	1.29	1.04	3.28	12.5	1.3	7565	0.39	✓	✓	-	-	✓	-	✓
550046	08B-1	0.500	12.700	7.75	8.51	11.70	1.55	1.55	4.45	16.5	2.0	15130	0.70	✓	✓	-	-	✓	-	✓
550056	10B-1	0.625	15.875	9.65	10.16	14.60	1.55	1.55	5.08	18.8	2.5	18870	0.96	✓	✓	-	-	✓	-	✓
550066	12B-1	0.750	19.050	11.68	12.07	16.00	1.81	1.81	5.72	21.9	2.6	24565	1.22	✓	✓	-	-	✓	-	✓
550088	16B-1	1.000	25.400	17.02	15.88	21.08	4.12	3.10	8.28	34.9	2.2	51000	2.80	✓	✓	-	-	✓	✓	-
550127	24B-1	1.500	38.100	25.40	25.40	33.40	6.10	5.08	14.63	52.6	6.8	136000	7.45	✓	✓	-	-	✓	✓	-
550147	28B-1	1.750	44.450	30.99	27.94	37.08	7.62	6.35	15.90	64.2	6.8	170000	9.35	✓	✓	-	-	✓	✓	-
550166	32B-1	2.000	50.800	30.99	29.21	42.29	7.11	6.35	17.81	63.4	8.0	212500	10.10	✓	✓	-	-	✓	✓	-

## Nickel Plated chain ANSI Standard - simplex

Dimensions (mm)

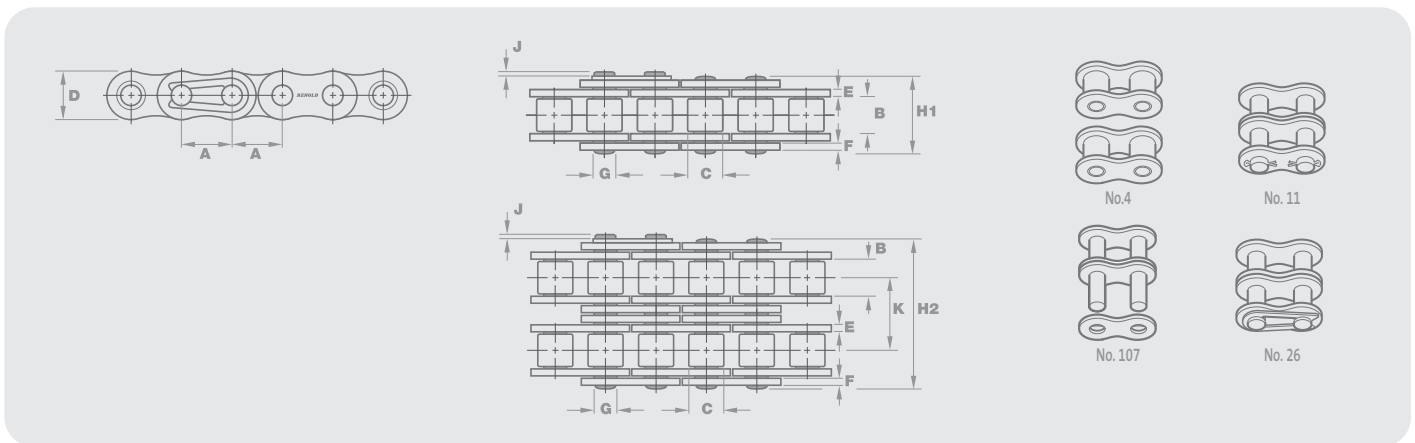
		A	A	B	C	D	E	F	G	H1	J	(N)								
559043	40-1	0.500	12.700	7.85	7.92	11.20	1.55	1.55	3.97	16.4	2.1	11815	0.60	✓	✓	✓	-	✓	✓	✓
559053	50-1	0.625	15.875	9.40	10.16	14.60	2.04	2.04	5.08	20.4	2.7	18530	1.00	✓	✓	✓	-	✓	✓	✓
559063	60-1	0.750	19.050	12.57	11.91	17.50	2.45	2.45	5.94	25.3	2.6	26605	1.47	✓	✓	✓	-	✓	✓	✓
559083	80-1	1.000	25.400	15.75	15.88	24.13	3.25	3.25	7.94	32.7	3.0	47260	2.80	✓	✓	✓	✓	✓	✓	✓
559103	100-1	1.250	31.750	18.90	19.05	30.17	4.06	4.06	9.54	39.7	4.2	73950	4.20	✓	✓	✓	✓	✓	✓	✓

# Stainless Steel chain

Renold Stainless Steel chain is made from high grades of austenitic rust-proof steel. These perform extremely well in environments that are acidic, alkaline, where direct contact with food is a consideration, where the chain will be exposed to water, and for very high or very low temperature locations (-40° to +400°C) where resistance to corrosion is a requirement.

Renold Stainless Steel chain should be selected when resistance to chemical action is critical. It is manufactured using FDA approved material and is prelubricated with USDA H1 approved lubricant.

- All components made from austenitic rust-proof steel
- All components receive surface finishing to remove stress raisers
- Lubrication that improves wear performance
- Tensile strength is approximately 65% that of standard carbon steel chain



## Stainless Steel chain BS Standard - simplex

Dimensions (mm)

Connecting links

Renold Chain No.	ISO No.	Pitch (inch)	Pitch (mm)	Inside Width Min	Roller Diam Max	Plate Height Max	Plate Width Inner Max	Plate Width Outer Max	Pin Diam Max	Pin Length Max	Con Link Extra Max	ISO606 Tensile Strength Min	Weight kg/m	No. 4	No. 107	No. 11	No. 58	No. 26	No. 12	No. 30
		A	A	B	C	D	E	F	G	H1	J	(N)								
185118	05B-1	0.315	8.000	3.00	5.00	7.11	0.76	0.76	2.31	8.6	1.5	3200	0.18	✓	✓	-	-	✓	-	-
185302	06B-1	0.375	9.525	5.72	6.35	8.20	1.29	1.04	3.28	12.5	1.3	6850	0.39	✓	✓	-	✓	✓	-	-
181707	08B-1	0.500	12.700	7.75	8.51	11.70	1.55	1.55	4.45	16.5	2.0	12000	0.70	✓	✓	✓	-	✓	-	-
180280	10B-1	0.625	15.875	9.65	10.16	14.60	1.55	1.55	5.08	18.8	2.5	14700	0.96	✓	✓	✓	-	✓	-	-
185634	12B-1	0.750	19.050	11.68	12.07	16.00	1.81	1.81	5.72	21.9	2.6	18640	1.22	✓	✓	✓	-	✓	-	-
187900	16B-1	1.000	25.400	17.02	15.88	20.20	3.70	3.00	8.28	34.9	2.2	43160	2.70	✓	✓	✓	-	✓	-	-

## Stainless Steel chain ANSI Standard - simplex

Dimensions (mm)

		A	A	B	C	D	E	F	G	H1	J	(N)								
2555	25-1	0.250	6.350	3.10	3.30	5.90	0.76	0.76	2.30	7.9	1.2	2500	0.12	✓	✓	-	-	✓	-	✓
545351	35-1	0.375	9.525	4.68	5.08	8.60	1.29	1.29	3.59	12.0	1.7	7600	0.35	✓	✓	-	-	✓	✓	✓
545401	40-1	0.500	12.700	7.85	7.92	11.20	1.55	1.55	3.97	16.4	2.1	10690	0.60	✓	✓	✓	-	✓	✓	✓
545501	50-1	0.625	15.875	9.40	10.16	14.60	2.04	2.04	5.08	20.4	2.7	16810	1.00	✓	✓	✓	-	✓	✓	✓
545601	60-1	0.750	19.050	12.57	11.91	17.50	2.45	2.45	5.94	25.3	2.6	30000	1.47	✓	✓	✓	-	✓	✓	✓
545801	80-1	1.000	25.400	15.75	15.88	23.00	3.00	3.00	7.94	32.7	3.0	51000	2.60	✓	✓	✓	-	✓	✓	-

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