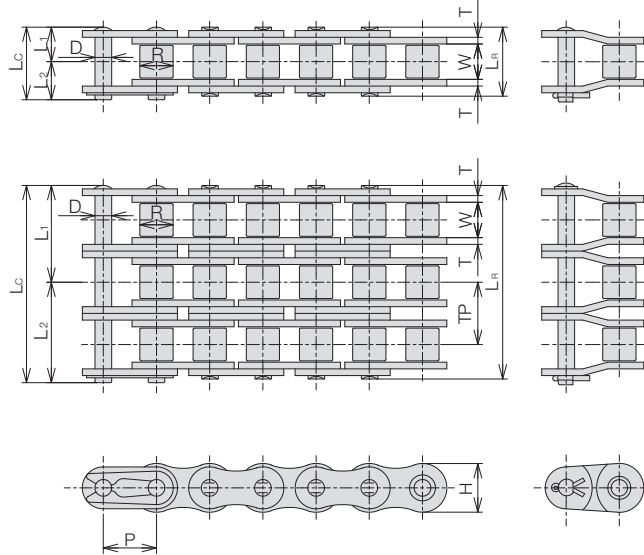


# Aqua-Proof Roller Chain

**ANSI | Single Pitch | Anti Corrosion | AP**

“AP” type roller chains comply with the RoHS Directive. Its corrosion resistance is far superior to nickel or zinc plated chains, yet it maintains the strength and durability of the SUGIYAMA carbon steel roller chain. “AP” type roller chains are the perfect choice when both corrosion resistance and high strength are needed.



SY Chain No.	Pitch P	Dimension - mm										Average Tensile Strength kN	Maximum Allowable Load kN	Average Chain Weight kg/m
		Roller		Pin				Plate		Trans. Pitch TP				
		Width W	Dia. R	Dia. D	Length			Height H	Thickness T					
			L <sub>R</sub>	L <sub>C</sub>	L <sub>1</sub>	L <sub>2</sub>								
SY 35-1 AP	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	-	10.80	2.48	0.34
SY 35-2 AP					22.1	23.0	11.1	11.9				21.60	3.67	0.63
SY 35-3 AP					32.2	33.1	16.1	17.0				32.40	5.40	0.92
SY 40-1 AP	12.70	7.95	7.92	3.96	16.6	17.7	8.3	9.4	11.7	1.5	-	19.10	4.17	0.60
SY 40-2 AP					30.8	32.2	15.4	16.8				38.20	6.17	1.22
SY 40-3 AP					45.4	46.6	22.7	23.9				57.30	9.08	1.85
SY 50-1 AP	15.875	9.53	10.16	5.08	20.5	22.0	10.2	11.8	14.6	2.0	-	31.90	7.22	0.98
SY 50-2 AP					38.4	40.0	19.2	20.8				63.80	10.70	2.00
SY 50-3 AP					56.7	58.2	28.4	29.8				95.70	15.70	3.07
SY 60-1 AP	19.05	12.70	11.91	5.95	25.7	26.9	12.8	14.1	17.5	2.4	-	43.10	10.70	1.46
SY 60-2 AP					48.2	49.7	24.0	25.7				86.20	14.70	2.95
SY 60-3 AP					71.2	72.6	35.2	37.4				129.00	21.60	4.43
SY 80-1 AP	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	23.4	3.2	-	78.50	19.10	2.52
SY 80-2 AP					61.6	64.5	30.8	33.7				157.00	25.00	5.10
SY 80-3 AP					90.9	94.1	45.5	48.6				236.00	36.80	7.68
SY 100-1 AP	31.75	19.05	19.05	9.53	39.6	43.0	19.7	23.3	29.3	4.0	-	118.00	29.40	3.91
SY 100-2 AP					75.1	78.8	37.6	41.2				236.00	38.40	7.74
SY 100-3 AP					110.9	114.6	55.5	59.1				354.00	56.50	11.58
SY 120-1 AP	38.10	25.40	22.23	11.10	49.7	53.4	24.8	28.6	35.1	4.8	-	167.00	39.50	5.76
SY 120-2 AP					94.9	98.8	47.5	51.3				334.00	51.70	11.49
SY 120-3 AP					140.3	144.2	70.2	74.0				501.00	76.00	17.20
SY 140-1 AP	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	40.9	5.6	-	216.00	52.30	7.41
SY 140-2 AP					102.9	107.2	51.5	55.7				432.00	68.30	14.63
SY 140-3 AP					151.7	156.3	75.9	80.4				648.00	101.00	21.91
SY 160-1 AP	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6.4	-	275.00	69.00	9.79
SY 160-2 AP					122.8	127.2	61.4	65.8				550.00	90.10	19.45
SY 160-3 AP					181.3	185.7	90.7	95.0				825.00	133.00	29.17
SY 180-1 AP	57.15	35.70	35.70	17.45	72.5	78.4	36.3	42.1	52.5	7.2	-	353.00	79.00	13.39
SY 180-2 AP					138.2	144.0	69.1	74.9				706.00	98.40	26.62
SY 180-3 AP					204.5	210.2	102.3	107.9				1,059.00	145.00	39.85
SY 200-1 AP	63.50	38.10	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	-	451.00	93.00	16.93
SY 200-2 AP					150.2	158.7	75.1	83.6				902.00	122.00	33.73
SY 200-3 AP					221.7	230.2	110.9	119.3				1,353.00	179.00	50.53
SY 240-1 AP	76.20	47.63	47.63	23.78	95.5	104.0	47.8	56.2	70.3	9.5	-	677.00	129.00	23.64
SY 240-2 AP					183.4	191.8	91.7	100.1				1,354.00	167.00	47.13
SY 240-3 AP					271.3	279.6	135.7	143.9				2,031.00	245.00	70.61

Connecting links are “clip” style for size 80-3 AP and all sizes 100 AP to 180 AP. Connecting links are “through S pin” style for all sizes above 200 AP. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.