

Clamps

SNAPPER HOSE CLAMP

HellermannTyton's Snapper is a lightweight, corrosion resistant hose clamp manufactured from high performance, thermoplastic materials selected to work well in a variety of diverse environments.

A quick, ratchet closure provides for reduced assembly line time and allows for application after connection of the hose. Release is achieved by initiating opposed lateral movement of the ratchet ends.

Heat stabilized materials are available for high temperature, motor and under-hood applications. Snappers are also stable in a wide variety of chemicals including salts, bases, alcohols, ethers, detergents, gasoline, lubricating oils, and greases.

The Snapper is available in 32 standard sizes ranging from 1/4" to 4-1/2" ID. Snappers are manufactured in white and black. Custom designed and different colored or shaped Snappers are available based upon applications and volume requirements.



Snapper Clamp Materials

- Acetal
- Heat and UV resistant, glass filled impact modified, nylon 6/6
- Cannot rust or corrode
- Installation and removal can be five times faster than conventional clamps
- Completely reusable
- Safety engineered – no protruding band or cluster
- Can be installed with hose in place
- Will not damage hose
- One hand installation for tight places

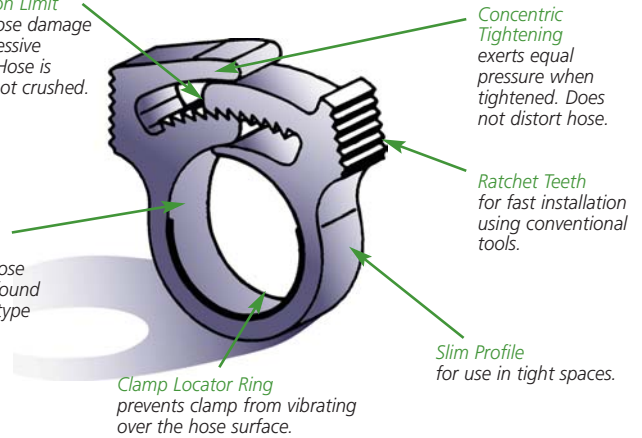
Features

Compression Limit prevents hose damage due to excessive clamping. Hose is clamped, not crushed.

Concentric Tightening exerts equal pressure when tightened. Does not distort hose.

Solid Body Design prevents hose extrusion found with gear type clamps.

Ratchet Teeth for fast installation using conventional tools.



Clamp Locator Ring prevents clamp from vibrating over the hose surface.

Snapper Clamp Applications

Snapper hose clamps are used in a variety of markets and diverse applications.

- Automotive
- Air Lines
- Pumps
- Marine
- Drain Lines
- Sprayers
- Truck
- Water Lines
- Fuel Lines
- Heavy Equipment
- Sprinkler Systems
- Garden Hoses
- Many more hose and tubing applications

Product Selection

DOUBLE BRAID UTILITY HOSES		CLEAR VINYL TUBING		NEOPRENE HOSES		FUEL LINE HOSES	
Dia.	Product	(I.D.) - (O.D.)	Product	Dia.	Product	Dia.	Product
1/4"	Snapper 8	3/16" - 5/16"	Snapper 1.5	1/8"	Snapper 1.5	1/4"	Snapper 6
3/8"	Snapper 12	1/4" - 3/8"	Snapper 4	3/16"	Snapper 2	5/16"	Snapper 8
1/2"	Snapper 19	5/16" - 7/16"	Snapper 6	9/32"	Snapper 8	3/8"	Snapper 12
5/8"	Snapper 22	3/8" - 1/2"	Snapper 8	3/8"	Snapper 12		
3/4"	Snapper 28	1/2" - 5/8"	Snapper 12		Garden Hoses		Heater Hoses
1"	Snapper 33/34	5/8" - 7/8"	Snapper 19	1/2"	Snapper 14	1/2"	Snapper 18
1-1/4"	Snapper 38	3/4" - 1.0"	Snapper 24	5/8"	Snapper 18	5/8"	Snapper 19
1-1/2"	Snapper 50	1.0" - 1-1/4"	Snapper 32	3/4"	Snapper 32	3/8"	Snapper 24



Snapper clamp sizes will vary with hose thickness and fitting sizes. End use testing is recommended to determine the actual size needed for each application.

Snapper Material **Specifications**

Material: Acetal		Standard Color: White*	
Property	ASTM Method	English Units	Value
Specific Gravity	D-792		1.41
Tensile Strength	D-638	psi	
-40°F			13,700
73°F			8,800
160°F			4,600
Elongation at Break	D-638	%	
-40°F			20
73°F			60
160°F			250
Shear Strength	D-732	psi	
73°F			7,700
120°F			6,700
160°F			5,700
Flexural Modulus	D-790	psi	
Compression Strength	D-695	psi	
1% Deflection			4,500
10% Deflection			16,000
Deflection Temperature	D-648	°F	
264 psi			230
Izod Impact Strength	D-256	ft. lb./in.	
1/8" bar, -40°F			1.0
1/8" bar, 73°F			1.3
Melting Point		°F	331
Coefficient of Linear	D-696	in./in./°F	
Thermal Expansion			5.9 x 10 ⁻⁵
Water Absorption	D-570	%	
73°F/24 Hours Immersion			0.22
Rockwell Hardness	D-785	M scale	80

Maximum continuous use 200°F (93°C)
 Maximum intermittent temperature range 220°F (104°C)
 *Acetal black is available based upon minimum volume requirements.
 End use testing recommended.

Standard color: Black Standard material: Impact Modified, Heat Stabilized, UV resistant, Glass Filled Nylon 6/6			
Property	ASTM Method	English Units	Value
Specific Gravity	D-792		1.17
Tensile Strength	D-638	psi	
-40°F Dry			19,000
50% RH			18,500
73°F Dry			13,000
50% RH			8,000
250°F Dry			4,500
50% RH			4,500
Elongation at Break	D-638	%	
-40°F Dry			4.0
50% RH			4.5
73°F Dry			1.0
50% RH			8.1
Shear Strength, Dry	D-732	psi	25,000
Flexural Modulus	D-790	psi	
120°F Dry			530,000
50% RH			275,000
Compression Strength, Dry	D-695	psi	25,000
Deformation Under Load	D-621	%	1.1
(4,000 psi, 122°F)			
Deflection Temperature	D-648	°F	440
264 psi (4)			
Izod Impact Strength, Dry	D-256	ft. lb./in.	
1/4" bar, 73°F			0.9
1/8" bar, 73°F			0.7
Untouched 1/8" bar, 73°F			5.0
Melting Point	D-789	°F	500
Coefficient of Linear	D-696	in./in./°F	
Thermal Expansion			1.5 x 10 ⁻⁵
Water Absorption	D-570	%	1.0
73°F/24 Hours Saturation			7.1
Rockwell Hardness	D-785	M scale	
M, Dry			117
M, 50% RH			110

Maximum continuous use 300°F (148°C)
 Maximum intermittent temperature range 350°F (176°C)
 End use testing recommended.

Snapper performance will vary depending upon the durometer, temperature, and pressure of the hose, as well as the type of connector used with the hose, the amount of pressure on the clamp, the temperature of the environment, as well as any chemicals or solvents that could affect the plastic in the environment. With almost infinite variables in each application, testing is highly recommended.

SNAPPER TOOLS

Snapper installation tools can be custom designed to meet specific requirements. Pneumatic tools are available on a lease basis only. Service kits are also available.



Product Selection

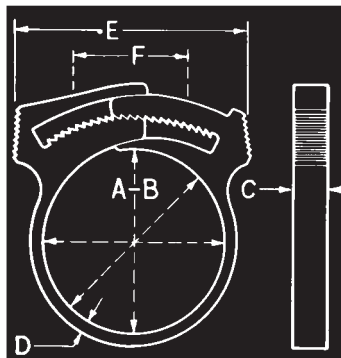
PART NUMBER	TOOL DESCRIPTION			SNAPPER RANGE
	TYPE	USE	STROKE	
PHSNP2-36	Pneumatic	Production	Horizontal	2-36
PHSNP38-100			38-100	
PSNP2-22			Scissors	2-22
PSNP24-70			24-70	
ASNP2-22	Mechanical	Production	Scissors	2-22
ASNP24-70			24-70	
MSNP1-70*			Maintenance	Scissors

*Used to assemble and disassemble.

Snapper Dimensional Chart

Dimensions shown in acetal material.

"A" Snapper completely closed, excluding rib. Average of the three angles. "B" same as "A" except with two teeth engaged.



Part Number Information

Not every size of Snapper hose clamp is available in every material and size option. However, for part number clarification, here is a legend of the materials and packaging codes with examples of complete Snapper part numbers.

Part Number Example

Example of Acetal White Snapper 22: 1000/bag
SNP2210M4

SIZE: SNP22 COLOR: 10 PACKAGE: M4

Snapper Hose Clamp Part Numbers

Product Selection

PART NUMBER	A MIN. DIA. IN. (MM)	B MAX. DIA. IN. (MM)	C IN. (MM)	D IN. (MM)	E IN. (MM)	F IN. (MM)	G NUMBER OF TEETH	PKG. QTY.
SNP1_C2	.228" (5.8)	.256" (6.5)	.148" (3.8)	.040" (1.0)	.451" (11.5)	.320" (8.1)	12	100
SNP1_M4								1000
SNP1.25_C2	.269" (6.8)	.291" (7.4)	.149" (3.8)	.042" (1.1)	.486" (12.3)	.404" (10.3)	8	100
SNP1.25_M4								1000
SNP1.5_C2	.307" (7.8)	.342" (8.7)	.146" (3.7)	.054" (1.4)	.587" (14.9)	.410" (10.4)	12	100
SNP1.5_M4								1000
SNP2_C2	.351" (8.9)	.394" (10.0)	.231" (5.9)	.067" (1.7)	.672" (17.1)	.472" (12.0)	12	100
SNP2_M4								1000
SNP3_C2	.387" (9.8)	.440" (11.2)	.232" (5.9)	.069" (1.8)	.797" (20.2)	.561" (14.2)	16	100
SNP3_M4								1000
SNP4_C2	.404" (10.3)	.452" (11.5)	.233" (5.9)	.066" (1.7)	.749" (19.0)	.524" (13.3)	12	100
SNP4_M4								1000
SNP6_C2	.449" (11.4)	.511" (13.0)	.233" (5.9)	.069" (1.8)	.838" (21.3)	.572" (14.5)	14	100
SNP6_M4								1000
SNP7_C2	.453" (11.5)	.546" (13.9)	.233" (5.9)	.069" (1.7)	1.112" (28.2)	.722" (18.3)	18	100
SNP7_M4								1000
SNP8_C2	.513" (13.0)	.586" (14.9)	.231" (5.9)	.069" (1.8)	.971" (24.7)	.647" (16.4)	16	100
SNP8_M4								1000
SNP10_C2	.569" (14.5)	.650" (16.5)	.233" (5.9)	.068" (1.7)	1.028" (26.1)	.675" (17.2)	16	100
SNP10_M4								1000
SNP12_C2	.616" (15.7)	.707" (18.0)	.234" (5.9)	.070" (1.8)	1.062" (27.0)	.689" (17.5)	18	100
SNP12_M4								1000
SNP14_C2	.702" (17.8)	.801" (20.4)	.233" (5.9)	.067" (1.7)	1.156" (29.4)	.744" (18.9)	18	100
SNP14_M4								1000
SNP16_C2	.759" (19.31)	.848" (21.5)	.232" (5.9)	.067" (1.7)	1.21" (30.9)	.787" (20.0)	18	100
SNP16_M4								1000
SNP18_C2	.779" (19.8)	.899" (22.8)	.237" (6.0)	.069" (1.8)	1.337" (34.0)	.857" (21.8)	22	100
SNP18_M4								1000
SNP19_C2	.859" (21.8)	.989" (25.1)	.232" (5.9)	.070" (1.8)	1.409" (35.8)	.899" (22.8)	22	100
SNP19_M4								1000
SNP22_C2	.928" (23.6)	1.072" (27.2)	.234" (5.9)	.070" (1.8)	1.473" (37.4)	.932" (23.7)	22	100
SNP22_M4								1000
SNP24_C2	.985" (25.0)	1.135" (28.8)	.292" (7.4)	.069" (1.8)	1.523" (38.7)	.963" (24.5)	22	100
SNP24_M4								1000
SNP28_C2	1.123" (28.5)	1.296" (32.9)	.288" (7.3)	.068" (1.7)	1.631" (41.4)	1.008" (25.6)	26	100
SNP28_H4								500
SNP32_C2	1.218" (30.9)	1.405" (35.7)	.287" (7.3)	.068" (1.7)	1.724" (43.8)	1.064" (27.0)	26	50
SNP32_H4								500
SNP33_C2	1.283" (32.6)	1.595" (40.5)	.290" (7.4)	.067" (1.7)	2.517" (63.9)	1.564" (9.7)	44	50
SNP33_H4								500
SNP34_C2	1.338" (34.0)	1.566" (39.8)	.292" (7.4)	.068" (1.7)	1.966" (49.9)	1.186" (30.1)	34	50
SNP34_H4								500
SNP36_C2	1.472" (37.4)	1.724" (43.8)	.287" (7.3)	.067" (1.7)	2.092" (53.1)	1.261" (32.0)	34	50
SNP36_H4								500
SNP38_C2	1.594" (40.5)	1.862" (47.3)	.291" (7.4)	.068" (1.7)	2.239" (56.9)	1.349" (34.3)	34	50
SNP38_H4								500
SNP42_C2	1.730" (43.9)	2.010" (51.1)	.354" (9.0)	.068" (1.7)	2.302" (58.5)	1.369" (34.8)	26	50
SNP42_H4								100
SNP50_C2	1.999" (50.8)	2.277" (57.8)	.291" (7.4)	.067" (1.7)	2.341" (59.5)	1.411" (35.8)	30	100
SNP60_C2	2.259" (57.4)	2.582" (65.6)	.290" (7.4)	.067" (1.7)	2.559" (65.0)	1.449" (38.1)	40	100
SNP70_C2	2.507" (63.7)	2.897" (73.6)	.370" (9.4)	.077" (2.0)	2.99" (75.9)	1.816" (46.1)	28	100
SNP76_C2	2.839" (72.1)	3.206" (81.4)	.387" (9.8)	.066" (1.7)	2.834" (72.0)	1.687" (42.9)	36	100
SNP80_C2	3.155" (80.1)	3.523" (89.5)	.449" (11.4)	.100" (2.5)	3.140" (79.8)	1.894" (48.1)	28	100
SNP90_C2	3.506" (89.10)	3.922" (99.6)	.385" (9.8)	.067" (1.7)	3.204" (81.4)	1.917" (48.7)	34	100
SNP100_X2	3.871" (98.3)	4.395" (111.6)	.394" (10.0)	.098" (2.4)	3.508" (89.1)	2.048" (52.0)	50	25
SNP101_X2	4.033" (102.4)	4.617" (117.3)	.442" (11.2)	.098" (2.5)	4.219" (107.2)	2.402" (61.0)	56	25

* Part number does not designate color, material, and each packaging option for Snapper hose clamps, although main packaging options for each size are listed. For more specific information and complete part numbers, contact HellermannTyton.

Adhesive Cable Clamps

SERIES 12 ADHESIVE CABLE CLAMPS

HellermannTyton's Series 12 cable clamps feature an exclusive quick lock/release and an adhesive backing. Recommended operating temperatures are -40° F to 150° F (-40°C to 65°C).

Standard color: gray

Standard material: nylon 6/6



Product Selection

PART NUMBER	DIMENSIONS IN. (MM)					MAX. BUNDLE DIA. IN. (MM)	RATED STATIC LOAD	PKG. QTY.
	A	B	C	D	E			
12-0188C2 12-0188M4	.735 (18.67)	.620 (15.75)	.080 (2.03)	.340 (8.64)	.390 (9.91)	.188 (4.78)	1/2 lb.	100 1000
12-0250C2 12-0250M4	1.000 (25.4)	.855 (21.72)	.100 (2.54)	.415 (10.54)	.620 (15.75)	.250 (6.35)	3/4 lb.	100 1000
12-0375C2 12-0375M4	1.000 (25.4)	.980 (24.89)	.090 (2.29)	.545 (13.84)	.625 (15.88)	.375 (9.53)	1 lb.	100 1000
12-0500C2 12-0500M4	.990 (25.15)	1.215 (30.86)	.110 (2.79)	.671 (17.04)	.630 (16.00)	.500 (12.70)	1- 1/2 lb.	100 1000
12-0750C2 12-0750M4	1.165 (29.59)	1.468 (37.29)	.125 (3.18)	.985 (25.02)	.750 (19.10)	.750 (19.10)	1- 3/4 lb.	100 1000

Series 12 clamps replace HellermannTyton's RAC Clamps. If you need cross reference assistance, contact HellermannTyton.

RB CLIPS

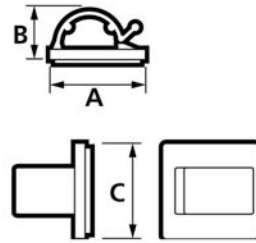
RB self-adhesive clips are ideal for cable and pipe bundles. Bundles are easily snapped into or out of clips. The RB clips suit diameters of 1/8", 5/16", and 1/2".

Standard color: natural

Standard material: nylon 6/6

Product Selection

PART NUMBER	DIMENSIONS IN. (MM)			PKG. QTY.
	A	B	C	
RB5H4	.75" (19.0)	.24" (6.0)	.75" (19.0)	500
RB8L4	1.00" (25.0)	.45" (11.5)	1.00" (25.0)	200
RB14L4	1.3" (33.4)	.63" (16.0)	1.08" (27.5)	200



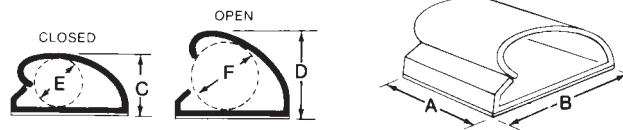
Samples from HellermannTyton come in units of one clip each. Actual clips from stock come in pairs connected together on adhesive liner.

SERIES 52 CLAMPS

Series 52 clamps are extruded and feature an adhesive backing. Recommended operating temperatures are -40°F to 150°F (-40°C to 65°C).

Standard color: natural

Standard material: flame resistant PVC



Product Selection

PART NUMBER	DIMENSIONS IN. (MM)				MAXIMUM BUNDLE DIA. IN. (MM)		RATED STATIC LOAD	PKG. QTY.
	A	B	C	D	E to	F		
52-0250C2 52-0250M4	.500" (12.70)	.500" (12.70)	.208" (5.28)	.450" (11.43)	.125" (3.18)	250" (6.35)	1/8 lb.	100 1000
52-0500C2 52-0500M4	.750" (19.10)	.750" (19.10)	.400" (10.20)	.750" (19.10)	.250" (6.35)	.500" (12.70)	1/4 lb.	100 1000
52-0750K2 52-0750H4	1.000" (25.40)	1.130" (28.70)	.580" (14.73)	1.050" (26.70)	.500" (12.70)	.750" (19.10)	1/2 lb.	50 500
52-1000H4	1.250" (31.80)	1.500" (38.10)	.750" (19.10)	1.350" (34.30)	.750" (19.10)	1.000" (25.40)	7/8 lb.	500