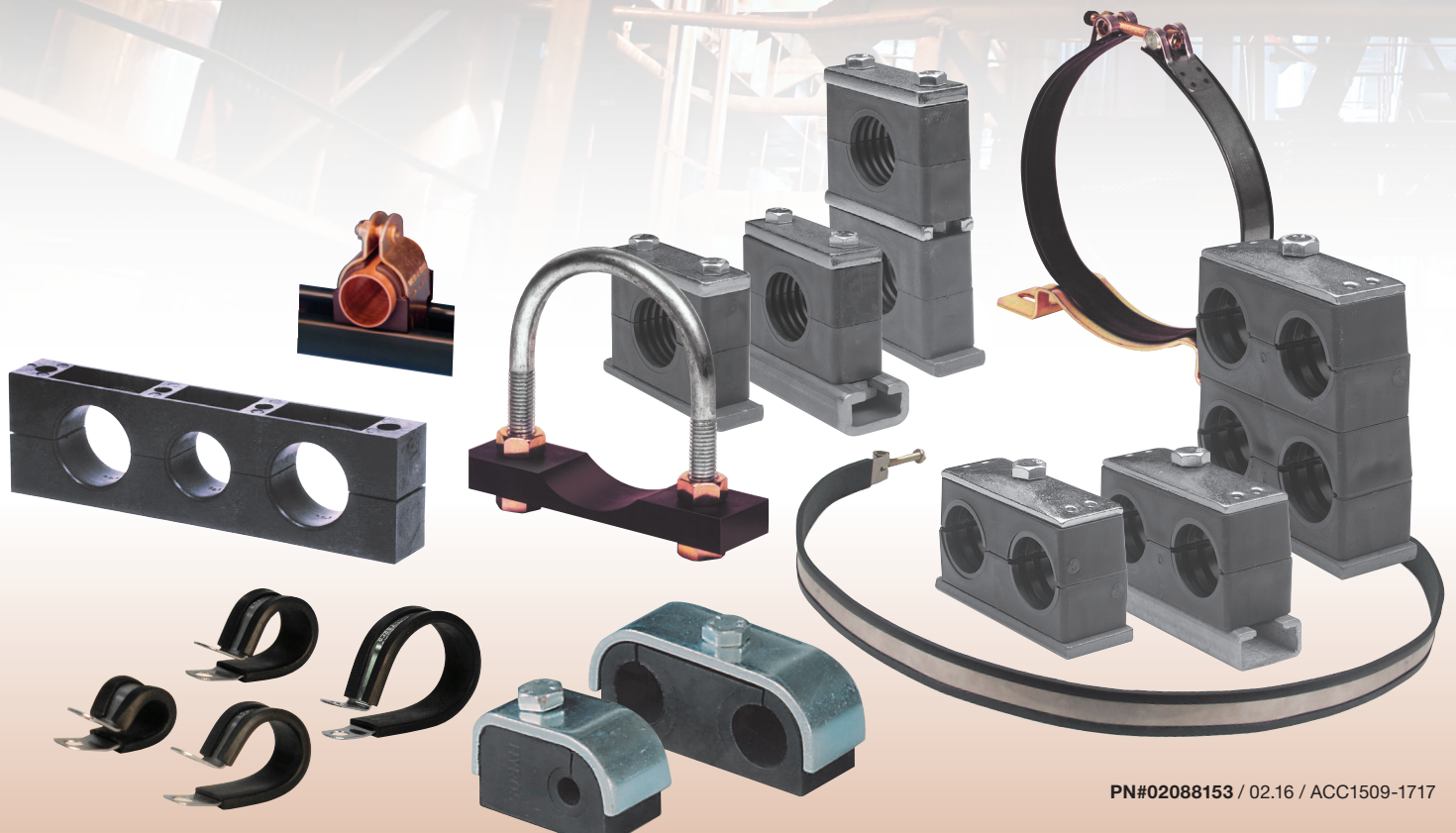


HYDAC INTERNATIONAL

Clamp Mounting Technology Systems



CLAMPING SOLUTIONS

Designs in this Brochure

HYDAC Clamps are designed to hold and support various size pipes, tubes, and hoses used in all industries. The information contained in this brochure is a quick reference guide to identify standard DIN 3015 Global Products and Cushion Clamps. HYDAC incorporates a thermal plastic elastomer and steel hardware to **Support**, **Absorb Shock** and **Vibration**, plus **Reduce Noise** levels in piping and hose systems.

DIN 3015 Clamps (global standard)

HRL Series - Standard Duty

HRS Series - Heavy Duty

HRZ Series - Twin

Line Sizes from 1/4" to 16" O.D.



Standard HRL Series



Heavy HRS Series



Twin HRZ Series

Quick Release Swivel Bolt Clamps

HRGKSM Series

Line Sizes from 1.54" to 17.87" O.D.



Band Straps

Band Strap Series

Length Ranges from 7.36" to 59.49"



Additional Solutions

HYDAC Manufactures a complete line of hose, tube, and pipe mounting components. For many years, these products have been successfully applied, worldwide. Our standard product offering includes:

Heavy Duty with Rubber Insert

HRES Series

Line Sizes up to 5 1/4" bore diameter

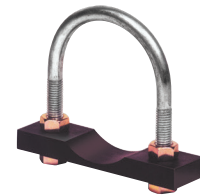
Provides for greater noise reduction and resistance to axial movement



U-Bolt Clamps

HRRBS Series

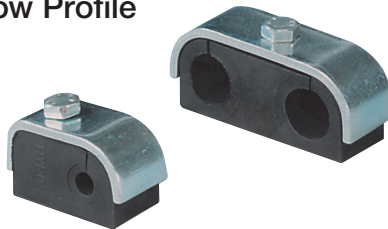
Line Sizes from 3/4" to 16" O.D.



Buegu Clamps Low Profile

HRBGS Series

Line Sizes 1/4" to 3/4"



Cushion Clamps

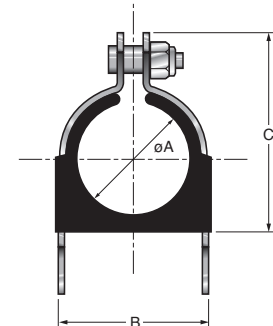
CUSH Series

Line Sizes from 1/4" to 3 1/2" O.D.

Mount on standard 1 5/8" x 7/8" unistrut® mounting rail



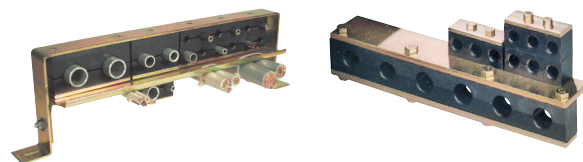
Cushion Clamp on a C-Rail



Engineering Solutions

HYDAC is a market leader in providing engineering solutions to pipe, tube, and hose mounting. HYDAC will help you develop standard and custom solutions that will save you time and money by simplifying your installation.

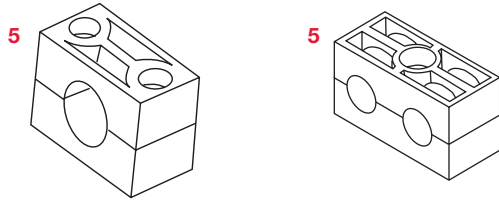
Custom Bracketry and Mounting



Clamp Pairs - KP Series

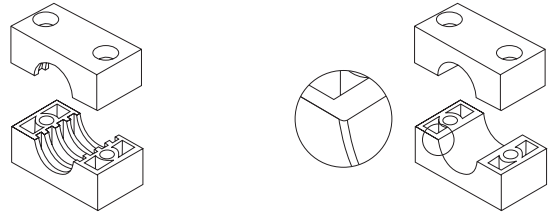
Available in Standard, Smooth Bore, and with Rubber Insert

- PP** = Polypropylene (*standard*)
- PA** = Polyamide (*optional - consult factory*)
- AL** = Aluminum (*optional - consult factory*)



Bore Sizes

Standard duty, heavy duty, and twin series are available with either ribbed bores (*standard*) or smooth bore (*special order*). When ordering a smooth bore arrangements or clamp pairs, a "G" is inserted in the code directly after the "HR" i.e. HRGL, HRGS, and HRGZ



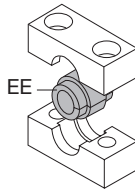
Ribbed Bore
(*standard*)

Smooth Bore
smooth surface and chamfered edge
prevent chaffing of hoses (*special*)

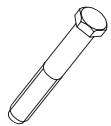
Rubber Inserts - EE Series

Available for HRL and HRS Series
DIN 3015 Clamps

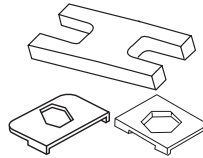
- EE** = Santoprene TPE 73



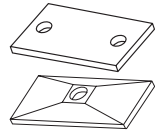
Clamp Hardware



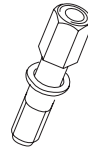
- 1 Hex head Bolts - Screw H**
Available in UNC and Metric
- ST** = Carbon Steel
 - ZN** = Zinc Plated
 - A2/A4** = Stainless Steel



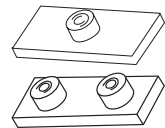
- 4 Safety Stacking Plate - SIP**
Used when stacking clamps
- ST** = Carbon Steel
 - ZN** = Zinc Plated



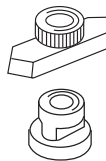
- 2 Top Plate - DP**
- ST** = Carbon Steel
 - ZN** = Zinc Plated



- 6 Stacking Bolt - AF**
Used when stacking clamps
- ST** = Carbon Steel

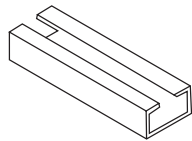


- 3 Weld Plate - AP**
- ST** = Carbon Steel
 - BL** = Phosphate Coated



- 7 C-Rail Nut - TM**
Used when mounting on a c-rail
- ST** = Carbon Steel

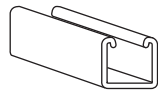
C-Rails



8

TS Series

Clamp Series	39"	78"	Material
HRL & HRZ Series (<i>Standard Duty & Twin</i>)	HRL TS 28x11 ST BL 1M (0.43"x1.10")	HRL TS 28x11 ST BL 2M (0.43"x1.10")	Carbon Steel (<i>Stainless Steel available - Consult Factory</i>)
HRS Series (<i>Heavy Duty</i>)	HRS TS 40x22 ST BL 1M (0.87"x1.57")	HRS TS 40x22 ST BL 2M (0.87"x1.57")	



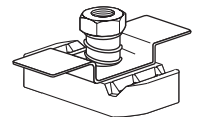
Cush Rail Series

Clamp Series	78" (1 5/8" x 1")	Material
Cush Series HRL & HRZ Series (<i>Standard Duty & Twin</i>)	Cush Rail 1"x4" G	Carbon Steel

Cush Nut Option

For connection of HRL & HRZ series clamps to Cush Rail Series

- 2702689 CUSH NUT 1/4 ST UNC**
- 2702957 CUSH NUT 3/8 ST UNC**
- 2702960 CUSH NUT 7/16 ST UNC**

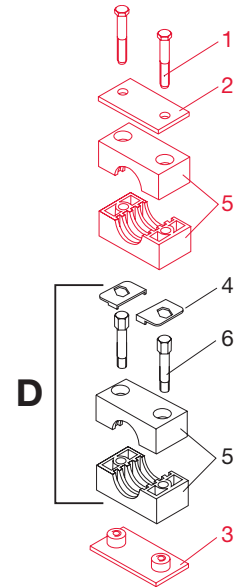
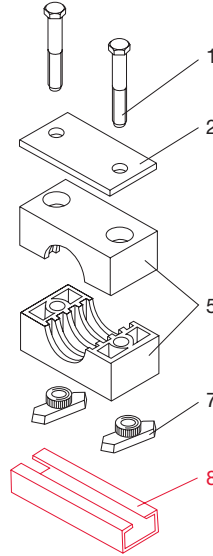
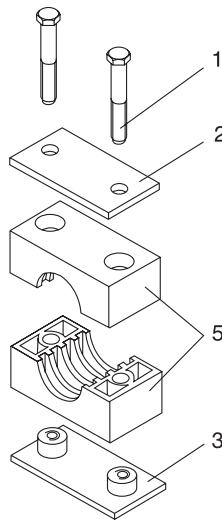


Parts Legend

- | | | | |
|-----------------|----------------|-----------------|--------------------------------------|
| 1 Hex Head Bolt | 3 Weld Plate | 5 Clamp Pair | 7 C-Rail Nut |
| 2 Top Plate | 4 Safety Plate | 6 Stacking Bolt | 8 C-Rail (<i>order separately</i>) |

HRL Series

Standard Duty



Parts Legend

1 Hex Head Bolt	5 Clamp Pair
2 Top Plate	6 Stacking Bolt
3 Weld Plate	7 C-Rail Nut
4 Safety Plate	8 C-Rail (order separately)

A Single Clamp with Weld Plate

A1TM Single Clamp for C-Rail Mounting (order C-Rail separately - see page 3)

D Single Clamp Stacking Module (not available for size 0)

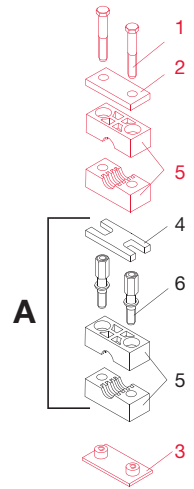
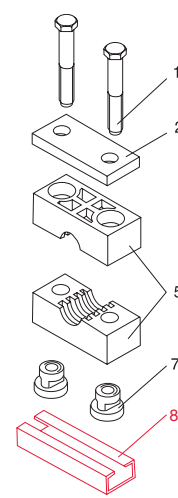
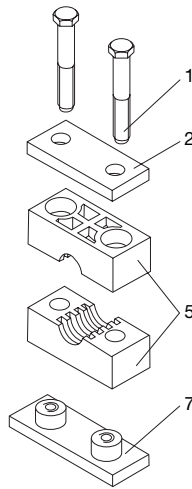
Size	Ød Bore Size		Recommended Nominal Size		Model Code	Model Code	Model Code
	in	mm	Tube O.D.	Pipe			
1	0.24	6	-	-	HRL 1 A 6 PP UNC	HRL 1 A1TM 6 PP UNC	HRL 1 D 6 PP UNC
	0.25	6.4	1/4"	-	HRL 1 A 6.4 PP UNC	HRL 1 A1TM 6.4 PP UNC	HRL 1 D 6.4 PP UNC
	0.31	8.0	5/16"	-	HRL 1 A 8 PP UNC	HRL 1 A1TM 8 PP UNC	HRL 1 D 8 PP UNC
	0.37	9.5	3/8"	-	HRL 1 A 9.5 PP UNC	HRL 1 A1TM 9.5 PP UNC	HRL 1 D 9.5 PP UNC
	0.39	10.0	-	1/8"	HRL 1 A 10 PP UNC	HRL 1 A1TM 10 PP UNC	HRL 1 D 10 PP UNC
2	0.47	12.0	-	-	HRL 1 A 12 PP UNC	HRL 1 A1TM 12 PP UNC	HRL 1 D 12 PP UNC
	0.50	12.7	1/2"	-	HRL 2 A 12.7 PP UNC	HRL 2 A1TM 12.7 PP UNC	HRL 2 D 12.7 PP UNC
	0.54	13.7	-	1/4"	HRL 2 A 13.7 PP UNC	HRL 2 A1TM 13.7 PP UNC	HRL 2 D 13.7 PP UNC
	0.50	14.0	-	-	HRL 2 A 14 PP UNC	HRL 2 A1TM 14 PP UNC	HRL 2 D 14 PP UNC
	0.59	15.0	-	-	HRL 2 A 15 PP UNC	HRL 2 A1TM 15 PP UNC	HRL 2 D 15 PP UNC
	0.63	16.0	5/8"	-	HRL 2 A 16 PP UNC	HRL 2 A1TM 16 PP UNC	HRL 2 D 16 PP UNC
3	0.67	17.1	-	3/8"	HRL 2 A 17.1 PP UNC	HRL 2 A1TM 17.1 PP UNC	HRL 2 D 17.1 PP UNC
	0.71	18.0	-	-	HRL 2 A 18 PP UNC	HRL 2 A1TM 18 PP UNC	HRL 2 D 18 PP UNC
	0.75	19.0	3/4"	-	HRL 3 A 19 PP UNC	HRL 3 A1TM 19 PP UNC	HRL 3 D 19 PP UNC
	0.79	20.0	-	-	HRL 3 A 20 PP UNC	HRL 3 A1TM 20 PP UNC	HRL 3 D 20 PP UNC
	0.84	21.3	-	1/2"	HRL 3 A 21.3 PP UNC	HRL 3 A1TM 21.3 PP UNC	HRL 3 D 21.3 PP UNC
	0.87	22.0	-	-	HRL 3 A 22 PP UNC	HRL 3 A1TM 22 PP UNC	HRL 3 D 22 PP UNC
4	0.91	23.0	-	-	HRL 3 A 23 PP UNC	HRL 3 A1TM 23 PP UNC	HRL 3 D 23 PP UNC
	0.98	25.0	-	-	HRL 3 A 25 PP UNC	HRL 3 A1TM 25 PP UNC	HRL 3 D 25 PP UNC
	1.00	25.4	1"	-	HRL 3 A 25.4 PP UNC	HRL 3 A1TM 25.4 PP UNC	HRL 3 D 25.4 PP UNC
	1.05	26.6	-	3/4"	HRL 4 A 26.6 PP UNC	HRL 4 A1TM 26.6 PP UNC	HRL 4 D 26.6 PP UNC
5	1.10	28.0	-	-	HRL 4 A 28 PP UNC	HRL 4 A1TM 28 PP UNC	HRL 4 D 28 PP UNC
	1.18	30.0	-	-	HRL 4 A 30 PP UNC	HRL 4 A1TM 30 PP UNC	HRL 4 D 30 PP UNC
	1.26	32.0	1-1/4"	-	HRL 5 A 32 PP UNC	HRL 5 A1TM 32 PP UNC	HRL 5 D 32 PP UNC
	1.33	33.7	-	1"	HRL 5 A 33.7 PP UNC	HRL 5 A1TM 33.7 PP UNC	HRL 5 D 33.7 PP UNC
	1.38	35.0	-	-	HRL 5 A 35 PP UNC	HRL 5 A1TM 35 PP UNC	HRL 5 D 35 PP UNC
	1.50	38.0	1-1/2"	-	HRL 5 A 38 PP UNC	HRL 5 A1TM 38 PP UNC	HRL 5 D 38 PP UNC
6	1.57	40.0	-	-	HRL 5 A 40 PP UNC	HRL 5 A1TM 40 PP UNC	HRL 5 D 40 PP UNC
	1.65	42.0	-	1-1/4"	HRL 5 A 42 PP UNC	HRL 5 A1TM 42 PP UNC	HRL 5 D 42 PP UNC
	1.75	44.5	1-3/4"	-	HRL 6 A 44.5 PP UNC	HRL 6 A1TM 44.5 PP UNC	HRL 6 D 44.5 PP UNC
7	1.90	48.3	-	1-1/2"	HRL 6 A 48.3 PP UNC	HRL 6 A1TM 48.3 PP UNC	HRL 6 D 48.3 PP UNC
	2.00	50.8	2"	-	HRL 6 A 50.8 PP UNC	HRL 6 A1TM 50.8 PP UNC	HRL 6 D 50.8 PP UNC
	2.37	60.3	-	2	HRL 7 A 60.3 PP UNC	HRL 7 A1TM 60.3 PP UNC	HRL 7 D 60.3 PP UNC
8	2.5	63.5	2 1/2"	-	HRL 7 A 63.5 PP UNC	HRL 7 A1TM 63.5 PP UNC	HRL 7 D 63.5 PP UNC
	2.87	73	-	2 1/2"	HRL 7 A 73 PP UNC	HRL 7 A1TM 73 PP UNC	HRL 7 D 73 PP UNC
	3	76.1	3"	-	HRL 7 A 76.1 PP UNC	HRL 7 A1TM 76.1 PP UNC	HRL 7 D 76.1 PP UNC
	3.5	88.9	-	3"	HRL 8 A 88.9 PP UNC	HRL 8 A1TM 88.9 PP UNC	HRL 8 D 88.9 PP UNC

PP = Polypropylene clamp pairs are standard.

Can also be mounted on Cush Rail. Rubber Insert and Smooth Bore options are available.

HRS Series

Heavy Duty



Parts Legend

1 Hex Head Bolt	5 Clamp Pair
2 Top Plate	6 Stacking Bolt
3 Weld Plate	7 C-Rail Nut
4 Safety Plate	8 C-Rail (order separately)

S
Single Clamp with Weld Plate

S1TM
Single Clamp for C-Rail Mounting
(size 1 to 4 only)
(order C-Rail separately - see page 3)

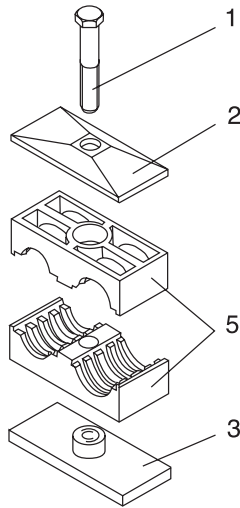
A
Single Clamp Stacking Module
(size 1 to 5 only)

Size	ød Bore Size		Recommended Nominal Size		Model Code	Model Code	Model Code
	in	mm	Tube O.D.	Pipe			
1	0.25	6.4	1/4"	-	HRS 1 S 6.4 PP UNC	HRS 1 S1TM 6.4 PP UNC	HRS 1 A 6.4 PP UNC
	0.32	8.0	5/16"	-	HRS 1 S 8 PP UNC	HRS 1 S1TM 8 PP UNC	HRS 1 A 8 PP UNC
	0.37	9.5	3/8"	-	HRS 1 S 9.5 PP UNC	HRS 1 S1TM 9.5 PP UNC	HRS 1 A 9.5 PP UNC
	0.39	10.0	-	-	HRS 1 S 10 PP UNC	HRS 1 S1TM 10 PP UNC	HRS 1 A 10 PP UNC
	0.50	12.7	1/2"	-	HRS 1 S 12.7 PP UNC	HRS 1 S1TM 12.7 PP UNC	HRS 1 A 12.7 PP UNC
	0.54	13.7	-	1/4"	HRS 1 S 13.7 PP UNC	HRS 1 S1TM 13.7 PP UNC	HRS 1 A 13.7 PP UNC
	0.55	14.0	-	-	HRS 1 S 14 PP UNC	HRS 1 S1TM 14 PP UNC	HRS 1 A 14 PP UNC
	0.59	15.0	-	-	HRS 1 S 15 PP UNC	HRS 1 S1TM 15 PP UNC	HRS 1 A 15 PP UNC
	0.63	16.0	5/8"	-	HRS 1 S 16 PP UNC	HRS 1 S1TM 16 PP UNC	HRS 1 A 16 PP UNC
	0.67	17.1	-	3/8"	HRS 1 S 17.1 PP UNC	HRS 1 S1TM 17.1 PP UNC	HRS 1 A 17.1 PP UNC
2	0.71	18.0	-	-	HRS 1 S 18 PP UNC	HRS 1 S1TM 18 PP UNC	HRS 1 A 18 PP UNC
	0.75	19.0	3/4"	-	HRS 2 S 19 PP UNC	HRS 2 S1TM 19 PP UNC	HRS 2 A 19 PP UNC
	0.79	20.0	-	-	HRS 2 S 20 PP UNC	HRS 2 S1TM 20 PP UNC	HRS 2 A 20 PP UNC
	0.84	21.3	-	1/2"	HRS 2 S 21.3 PP UNC	HRS 2 S1TM 21.3 PP UNC	HRS 2 A 21.3 PP UNC
	0.87	22.0	7/8"	-	HRS 2 S 22 PP UNC	HRS 2 S1TM 22 PP UNC	HRS 2 A 22 PP UNC
	0.98	25.0	-	-	HRS 2 S 25 PP UNC	HRS 2 S1TM 25 PP UNC	HRS 2 A 25 PP UNC
	1.00	25.4	1"	-	HRS 2 S 25.4 PP UNC	HRS 2 S1TM 25.4 PP UNC	HRS 2 A 25.4 PP UNC
	1.05	26.7	-	3/4"	HRS 2 S 26.7 PP UNC	HRS 2 S1TM 26.7 PP UNC	HRS 2 A 26.7 PP UNC
	1.10	28.0	-	-	HRS 2 S 28 PP UNC	HRS 2 S1TM 28 PP UNC	HRS 2 A 28 PP UNC
	1.18	30.0	-	-	HRS 2 S 30 PP UNC	HRS 2 S1TM 30 PP UNC	HRS 2 A 30 PP UNC
3	0.98	25.0	-	-	HRS 3 S 25 PP UNC	HRS 3 S1TM 25 PP UNC	HRS 3 A 25 PP UNC
	1.18	30.0	-	-	HRS 3 S 30 PP UNC	HRS 3 S1TM 30 PP UNC	HRS 3 A 30 PP UNC
	1.26	32.0	1-1/4"	-	HRS 3 S 32 PP UNC	HRS 3 S1TM 32 PP UNC	HRS 3 A 32 PP UNC
	1.33	33.7	-	1"	HRS 3 S 33.7 PP UNC	HRS 3 S1TM 33.7 PP UNC	HRS 3 A 33.7 PP UNC
	1.38	35.0	-	-	HRS 3 S 35 PP UNC	HRS 3 S1TM 35 PP UNC	HRS 3 A 35 PP UNC
	1.50	38.0	1-1/2"	-	HRS 3 S 38 PP UNC	HRS 3 S1TM 38 PP UNC	HRS 3 A 38 PP UNC
	1.57	40.0	-	-	HRS 3 S 40 PP UNC	HRS 3 S1TM 40 PP UNC	HRS 3 A 40 PP UNC
	1.65	42.0	-	1-1/4"	HRS 3 S 42 PP UNC	HRS 3 S1TM 42 PP UNC	HRS 3 A 42 PP UNC
4	1.18	30.0	-	-	HRS 4 S 30 PP UNC	HRS 4 S1TM 30 PP UNC	HRS 4 A 30 PP UNC
	1.50	38.0	1-1/2"	-	HRS 4 S 38 PP UNC	HRS 4 S1TM 38 PP UNC	HRS 4 A 38 PP UNC
	1.65	42.0	-	-	HRS 4 S 42 PP UNC	HRS 4 S1TM 42 PP UNC	HRS 4 A 42 PP UNC
	1.75	44.5	1-3/4"	-	HRS 4 S 44.5 PP UNC	HRS 4 S1TM 44.5 PP UNC	HRS 4 A 44.5 PP UNC
	1.90	48.3	-	1-1/2"	HRS 4 S 48.3 PP UNC	HRS 4 S1TM 48.3 PP UNC	HRS 4 A 48.3 PP UNC
	2.00	50.8	2"	-	HRS 4 S 50.8 PP UNC	HRS 4 S1TM 50.8 PP UNC	HRS 4 A 50.8 PP UNC
	2.13	54.0	-	-	HRS 4 S 54 PP UNC	HRS 4 S1TM 54 PP UNC	HRS 4 A 54 PP UNC
	2.24	57.0	2-1/4"	-	HRS 4 S 57 PP UNC	HRS 4 S1TM 57 PP UNC	HRS 4 A 57 PP UNC
	2.37	60.3	-	2"	HRS 4 S 60.3 PP UNC	HRS 4 S1TM 60.3 PP UNC	HRS 4 A 60.3 PP UNC
	2.50	63.5	2-1/2"	-	HRS 4 S 63.5 PP UNC	HRS 4 S1TM 63.5 PP UNC	HRS 4 A 63.5 PP UNC
5	2.56	65.0	-	-	HRS 4 S 65 PP UNC	HRS 4 S1TM 65 PP UNC	HRS 4 A 65 PP UNC
	2.75	70.0	2-3/4"	-	HRS 4 S 70 PP UNC	HRS 4 S1TM 70 PP UNC	HRS 4 A 70 PP UNC
	1.50	38.0	1-1/2"	-	HRS 5 S 38 PP UNC	-	HRS 5 A 38 PP UNC
	2.60	66.0	-	-	HRS 5 S 66 PP UNC	-	HRS 5 A 66 PP UNC
	2.76	70.0	-	-	HRS 5 S 70 PP UNC	-	HRS 5 A 70 PP UNC
6	2.87	73.0	-	2-1/2"	HRS 5 S 73 PP UNC	-	HRS 5 A 73 PP UNC
	3.00	76.1	3"	-	HRS 5 S 76.1 PP UNC	-	HRS 5 A 76.1 PP UNC
	3.50	88.9	-	3"	HRS 5 S 88.9 PP UNC	-	HRS 5 A 88.9 PP UNC
	3.78	96.0	-	-	HRS 6 S 96 PP UNC	-	-
7	4.00	101.6	4"	3-1/2"	HRS 6 S 101.6 PP UNC	-	-
	4.25	108.0	4-1/4"	-	HRS 6 S 108 PP UNC	-	-
	4.50	114.3	4-1/2"	4"	HRS 6 S 114.3 PP UNC	-	-
8	5.50	139.7	-	5"	HRS 7 S 139.7 PP UNC	-	-
	6.61	168.0	-	6"	HRS 7 S 168 PP UNC	-	-
9	7.63	193.7	7-5/8"	7"	HRS 8 S 193.7 PP UNC	-	-
	8.62	219.1	-	8"	HRS 8 S 219.1 PP UNC	-	-
9	10.75	273.0	-	10"	HRS 9 S 273 PP UNC	-	-
	12.75	323.9	-	12"	HRS 9 S 324 PP UNC	-	-

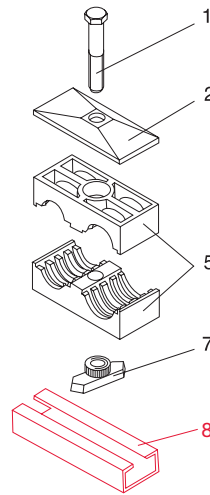
PP = Polypropylene clamp pairs are standard.
Rubber Insert and Smooth Bore options are available.

HRZ Series

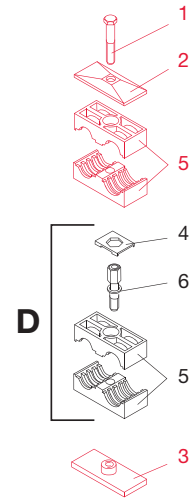
Twin



A Twin Clamp with Weld Plate



A1TM Twin Clamp for C-Rail Mounting
(order C-Rail separately)



D Twin Clamp Stacking Module

Parts Legend

1 Hex Head Bolt	5 Clamp Pair
2 Top Plate	6 Stacking Bolt
3 Weld Plate	7 C-Rail Nut
4 Safety Plate	8 C-Rail (order separately)

Size	Ød Bore Size		Recommended Nominal Size		Model Code	Model Code	Model Code
	in	mm	Tube O.D.	Pipe			
1	0.24	6.0	-	-	HRZ 1 A 6-6 PP UNC	HRZ 1 A1TM 6-6 PP UNC	HRZ 1 D 6-6 PP UNC
	0.25	6.4	1/4"	-	HRZ 1 A 6.4-6.4 PP UNC	HRZ 1 A1TM 6.4-6.4 PP UNC	HRZ 1 D 6.4-6.4 PP UNC
	0.32	8.0	5/16"	-	HRZ 1 A 8-8 PP UNC	HRZ 1 A1TM 8-8 PP UNC	HRZ 1 D 8-8 PP UNC
	0.37	9.5	3/8"	-	HRZ 1 A 9.5-9.5 PP UNC	HRZ 1 A1TM 9.5-9.5 PP UNC	HRZ 1 D 9.5-9.5 PP UNC
	0.39	10.0	-	1/8"	HRZ 1 A 10-10 PP UNC	HRZ 1 A1TM 10-10 PP UNC	HRZ 1 D 10-10 PP UNC
	0.41	10.3	-	1/8"	HRZ 1 A 10.3-10.3 PP UNC	HRZ 1 A1TM 10.3-10.3 PP UNC	HRZ 1 D 10.3-10.3 PP UNC
	0.47	12.0	-	-	HRZ 1 A 12-12 PP UNC	HRZ 1 A1TM 12-12 PP UNC	HRZ 1 D 12-12 PP UNC
2	0.50	12.7	1/2"	-	HRZ 2 A 12.7-12.7 PP UNC	HRZ 2 A1TM 12.7-12.7 PP UNC	HRZ 2 D 12.7-12.7 PP UNC
	0.54	13.7	-	1/4"	HRZ 2 A 13.7-13.7 PP UNC	HRZ 2 A1TM 13.7-13.7 PP UNC	HRZ 2 D 13.7-13.7 PP UNC
	0.55	14.0	-	-	HRZ 2 A 14-14 PP UNC	HRZ 2 A1TM 14-14 PP UNC	HRZ 2 D 14-14 PP UNC
	0.59	15.0	-	-	HRZ 2 A 15-15 PP UNC	HRZ 2 A1TM 15-15 PP UNC	HRZ 2 D 15-15 PP UNC
	0.63	16.0	5/8"	-	HRZ 2 A 16-16 PP UNC	HRZ 2 A1TM 16-16 PP UNC	HRZ 2 D 16-16 PP UNC
3	0.67	17.1	-	3/8"	HRZ 2 A 17.1-17.1 PP UNC	HRZ 2 A1TM 17.1-17.1 PP UNC	HRZ 2 D 17.1-17.1 PP UNC
	0.75	19.0	3/4"	-	HRZ 3 A 19-19 PP UNC	HRZ 3 A1TM 19-19 PP UNC	HRZ 3 D 19-19 PP UNC
	0.79	20.0	-	-	HRZ 3 A 20-20 PP UNC	HRZ 3 A1TM 20-20 PP UNC	HRZ 3 D 20-20 PP UNC
	0.84	21.3	-	1/2"	HRZ 3 A 21.3-21.3 PP UNC	HRZ 3 A1TM 21.3-21.3 PP UNC	HRZ 3 D 21.3-21.3 PP UNC
	0.87	22.0	7/8"	-	HRZ 3 A 22-22 PP UNC	HRZ 3 A1TM 22-22 PP UNC	HRZ 3 D 22-22 PP UNC
	0.91	23.0	-	-	HRZ 3 A 23-23 PP UNC	HRZ 3 A1TM 23-23 PP UNC	HRZ 3 D 23-23 PP UNC
	0.98	25.0	-	-	HRZ 3 A 25-25 PP UNC	HRZ 3 A1TM 25-25 PP UNC	HRZ 3 D 25-25 PP UNC
4	1.00	25.4	1"	-	HRZ 3 A 25.4-25.4 PP UNC	HRZ 3 A1TM 25.4-25.4 PP UNC	HRZ 3 D 25.4-25.4 PP UNC
	1.05	26.7	-	3/4"	HRZ 4 A 26.7-25.7 PP UNC	HRZ 4 A1TM 26.7-25.7 PP UNC	HRZ 4 D 26.7-25.7 PP UNC
	1.10	28.0	-	-	HRZ 4 A 28-28 PP UNC	HRZ 4 A1TM 28-28 PP UNC	HRZ D A 28-28 PP UNC
5	1.18	30.0	-	-	HRZ 4 A 30-30 PP UNC	HRZ 4 A1TM 30-30 PP UNC	HRZ D A 30-30 PP UNC
	1.26	32.0	1-1/4"	-	HRZ 5 A 32-32 PP UNC	HRZ 5 A1TM 32-32 PP UNC	HRZ 5 D 32-32 PP UNC
	1.33	33.7	-	1"	HRZ 5 A 33.7-33.7 PP UNC	HRZ 5 A1TM 33.7-33.7 PP UNC	HRZ 5 D 33.7-33.7 PP UNC
	1.38	35.0	-	-	HRZ 5 A 35-35 PP UNC	HRZ 5 A1TM 35-35 PP UNC	HRZ 5 D 35-35 PP UNC
	1.50	38.0	1-1/2"	-	HRZ 5 A 38-38 PP UNC	HRZ 5 A1TM 38-38 PP UNC	HRZ 5 D 38-38 PP UNC
	1.65	40.0	-	-	HRZ 5 A 40-40 PP UNC	HRZ 5 A1TM 40-40 PP UNC	HRZ 5 D 40-40 PP UNC
	1.65	42.0	-	1-1/4"	HRZ 5 A 42-42 PP UNC	HRZ 5 A1TM 42-42 PP UNC	HRZ 5 D 42-42 PP UNC

PP = Polypropylene clamp pairs are standard.

Contact HYDAC for different bore combinations, can also be mounted on Cush Rail. Smooth Bore options are available.

HRRL & HRRLE Series

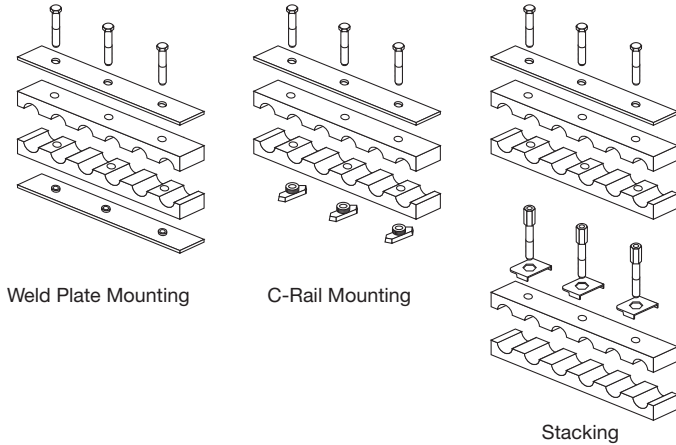
Series Strip Clamps

Description

For OEM's requiring solutions for multiple line runs HYDAC offers customized series strips. These clamps reduce inventory and installation time, while providing a more compact solution than multiple DIN 3015 clamps. The design and dimensions are based on the DIN 3015 specifications set forth for single and twin clamps. The Series Strip Program, echoes that of the DIN 3015 Clamps in that it offers similar arrangements, sizes, options, and model coding.

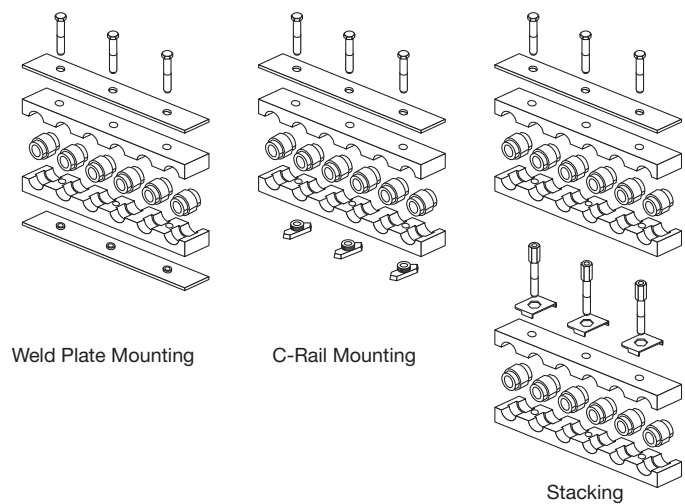
Arrangements

HRRL Series: Standard Duty



Arrangements

HRRLE Series: Heavy Duty with Rubber Inserts

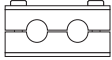


Number of Lines & Bolts

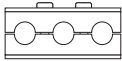
HRRL Series: Standard Duty

(diameter range: 6 to 25.4 mm)

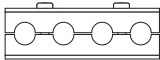
2 Lines / 2 Bolts (HRRL...2 X.../2...)



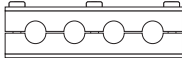
3 Lines / 2 Bolts (HRRL...3 X.../2...)



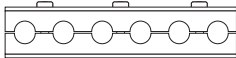
4 Lines / 2 Bolts (HRRL...4 X.../2...)



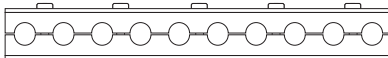
4 Lines / 3 Bolts (HRRL...4 X.../3...)



6 Lines / 3 Bolts (HRRL...6 X.../3...)



10 Lines / 5 Bolts (HRRL...10 X.../5...)



Number of Lines & Bolts

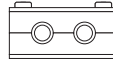
HRRLE Series: Heavy Duty with Rubber Inserts

(diameter range: 6 to 56.4 mm)

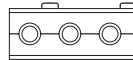
2 Lines / 1 Bolt (HRRLE...2 X.../1...)



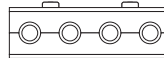
2 Lines / 2 Bolts (HRRLE...2 X.../2...)



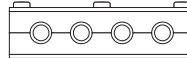
3 Lines / 2 Bolts (HRRLE...3 X.../2...)



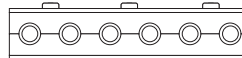
4 Lines / 2 Bolts (HRRLE...4 X.../2...)



4 Lines / 3 Bolts (HRRLE...4 X.../3...)



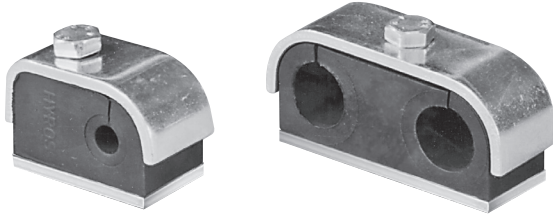
6 Lines / 3 Bolts (HRRLE...6 X.../3...)



Check out our Sizing Program at www.hydacusa.com

HRBGS Series

Buegu Clamps



Description

Buegu clamps are ideal for mobile applications where space is limited. They absorb shock and vibration, and reduce noise.

Features

- Low Profile Design
- Shock and vibration reduction
- Easy installation

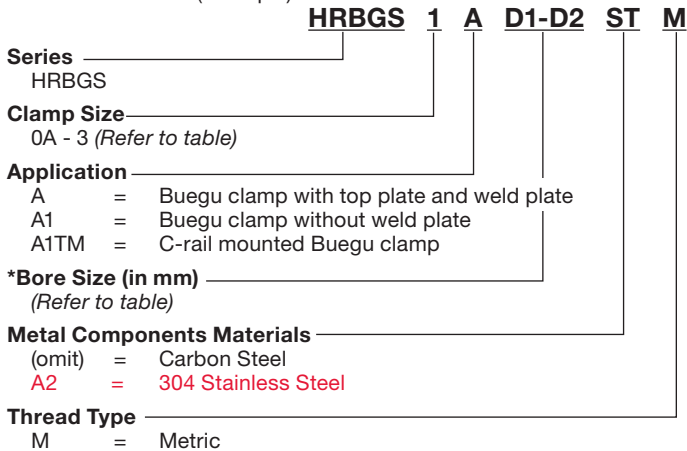
Materials

- Stirrup & Weld Plate - carbon steel
- Clamp Body - thermoplastic elastomer (Santoprene TPE 73)

Temp Specifications

- -40° to 257°F (-40° to 125°C)

Model Code (Example)



Part Legend	A - Buegu Clamp with Weld Plate	
1 Hex Head Bolt		
2 Stirrup		
3 Sleeve		
4 Rubber Body		
5 Weld Plate		

Part Legend	A1TM - Buegu Clamp - C-Rail Mounted	
1 Hex Head Bolt		
2 Stirrup		
3 Sleeve		
4 Rubber Body		
5 C-Rail Nut		
6 C-Rail		

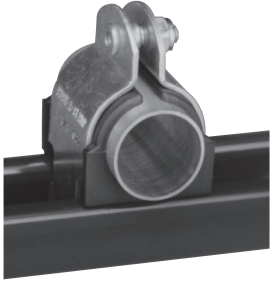
Clamp Size	Tube Size	Pipe Size	Bore Diameter ¹				Clamp Assembly Model Code	Part No.	Hex Head Bolt
			øD1		øD2				
			in	mm	in	mm			
0A	1/4"	-	0.250	6.4	-	-	<i>HRBGS 0A A 6.4 STM</i>	<i>02063638</i>	M6 x 25
	3/8"	-	0.375	9.5	-	-	<i>HRBGS 0A A 9.5 STM</i>	<i>02063639</i>	
	-	1/8"	0.394	10.0	-	-	<i>HRBGS 0A A 10.0 STM</i>	<i>02063640</i>	
0B	1/2"	-	0.500	12.7	-	-	<i>HRBGS 0B A 12.7 STM</i>	<i>02063641</i>	
	-	1/4"	0.540	13.7	-	-	<i>HRBGS 0B A 13.7 STM</i>	<i>02063642</i>	
	5/8"	-	0.625	16.0	-	-	<i>HRBGS 0B A 16.0 STM</i>	<i>02063643</i>	
	-	3/8"	0.675	17.1	-	-	<i>HRBGS 0B A 17.1 STM</i>	<i>02063644</i>	
	3/4"	-	0.750	19.0	-	-	<i>HRBGS 0B A 19.0 STM</i>	<i>02063645</i>	
1	1/4"	-	0.250	6.4	0.250	6.4	HRBGS 1 A 6.4-6.4 STM	02063646	
	3/8"	-	0.375	9.5	0.375	9.5	<i>HRBGS 1 A 9.5-9.5 STM</i>	<i>02063647</i>	
	-	1/8"	0.394	10.0	0.394	10.0	HRBGS 1 A 10-10 STM	02063648	
	1/2"	-	0.500	12.7	0.500	12.7	<i>HRBGS 1 A 12.7-12.7 STM</i>	<i>02063649</i>	
2	5/8"	-	0.625	16.0	0.625	16.0	HRBGS 2 A 16-16 STM	02063650	
	-	3/8"	0.675	17.1	0.675	17.1	<i>HRBGS 2 A 17.1-17.1 STM</i>	<i>02063651</i>	
	3/4"	-	0.750	19.0	0.750	19.0	HRBGS 2 A 19-19 STM	02063652	

1) Consult Factory for sizes 1 and 2 with different bore diameters

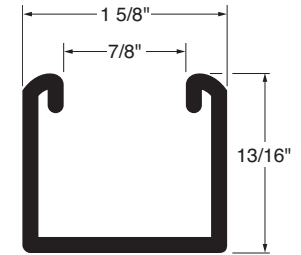
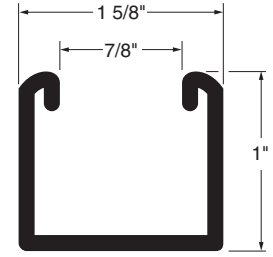
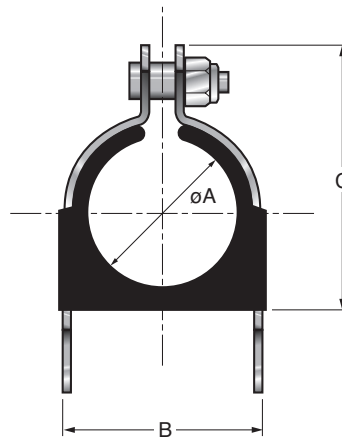
*Model Codes containing selections listed in RED italics are non-standard items – Minimum quantities will apply – Contact HYDAC for information and availability
Not all combinations are available*

CUSH Series

Cushion Clamps



Dimensions



Description

Cushion clamps are ideal for multiple line runs, while absorbing shock and vibration, reducing unwanted noise and preventing galvanic corrosion.

Features

- Distortion free clamping
- Shock and vibration reduction
- Elimination of rotation
- Retrofit without disassembly
- Easy installation
- Control squeeze shoulder bolt prevents over tightening of the clamp assembly, preventing the possibility of crushing the tube.
- Fits standard 1-5/8" wide mounting rail

Materials

- Clamp - carbon steel (with electrochromate finish)
- Cushion - thermoplastic elastomer
- Cushion material withstands the effect of most oils, chemicals and industrial cleaning solvents at temperatures -40° to 275°F.

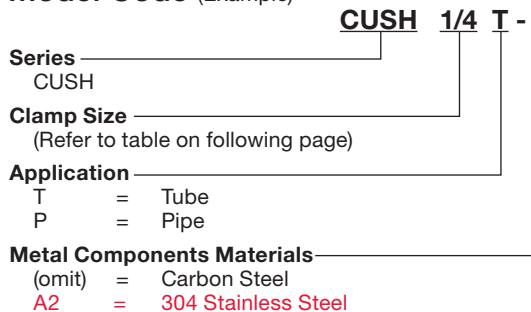
Mounting Rail

- **Part Number:** 02073325
- **Model Code:** Cush Rail 1" x 4' Galvanized
- **Material:** Low gauge carbon steel
- **Finish:** Galvanized
- **Length:** 4'

Materials

- Clamp - Stainless steel 304
- Cushion - thermoplastic elastomer

Model Code (Example)



Model Code	Application			Dimensions			Part No.
	Copper & Steel Tubing in.	Copper Water Pipe (nom.) in.	Nom. Pipe Size in.	ø A in.	B in.	C in.	
CUSH 1/4T	1/4			0.25	0.62	0.98	02073330
CUSH 3/8T	3/8	1/4		0.37	0.82	1.13	02073331
CUSH 1/2T	1/2	3/8		0.50	0.94	1.34	02073332
CUSH 1/4P			1/4	0.54	0.98	1.34	02073361
CUSH 5/8T	5/8	1/2		0.62	1.06	1.54	02073333
CUSH 3/8P			3/8	0.67	1.13	1.54	02073362
CUSH 3/4T	3/4	5/8		0.75	1.20	1.68	02073334
CUSH 1/2P			1/2	0.84	1.29	1.82	02073363
CUSH 7/8T	7/8	3/4		0.87	1.31	1.82	02073335
CUSH 1T	1			1.00	1.44	1.95	02073336
CUSH 3/4P			3/4	1.05	1.50	1.95	02073364
CUSH 1-1/8T	1 1/8	1		1.12	1.57	2.08	02073337
CUSH 1-1/4T	1 1/4			1.25	1.70	2.21	02073338
CUSH 1P			1	1.31	1.76	2.34	02073365
CUSH 1-3/8T	1 3/8	1 1/4		1.37	1.82	2.34	02073339
CUSH 1-1/2T	1 1/2			1.50	1.95	2.47	02073340
CUSH 1-5/8T	1 5/8	1 1/2		1.62	2.07	2.60	02073341
CUSH 1-1/4P			1 1/4	1.66	2.17	2.73	02073366
CUSH 1-3/4T	1 3/4			1.75	2.20	2.73	02073342
CUSH 1-7/8T	1 7/8			1.87	2.32	2.86	02073343
CUSH 1-1/2P			1 1/2	1.90	2.35	2.86	02073367
CUSH 2T	2			2.00	2.45	3.04	02073344
CUSH 2-1/8T	2 1/8			2.12	2.57	3.23	02073345
CUSH 2-3/8T	2 3/8			2.37	2.82	3.67	02073346
CUSH 2P			2	2.37	2.82	3.67	02073368
CUSH 2-5/8T	2 5/8			2.62	3.07	3.92	02073348
CUSH 2-1/2P			2 1/2	2.87	3.32	4.17	02073369
CUSH 3-1/8T	3 1/8			3.12	3.57	4.42	02073351
CUSH 3P			3	3.50	3.95	4.79	02073370
CUSH 4P			4	4.50	4.95	5.95	02073372
CUSH 5P			5	5.56	6.01	6.92	02073373
CUSH 6P			6	6.62	7.07	8.23	02073374

Tube Series: T = with Controlled Squeeze Shoulder Bolt (sizes 1 3/8" and smaller)

Pipe Series: P = without Controlled Squeeze Bolt

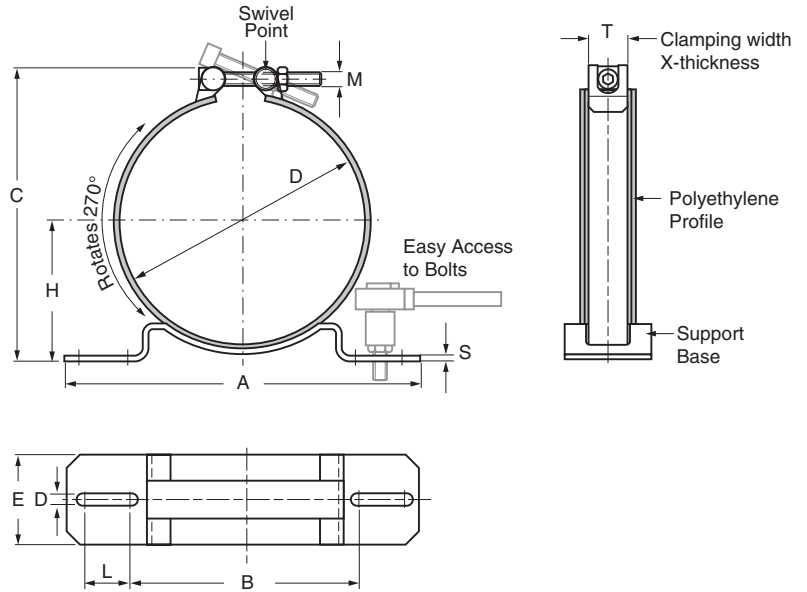
Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print. Dimensions are in inches/(mm) and lbs/(kg)

Model Codes containing selections listed in RED italics are non-standard items – Minimum quantities will apply – Contact HYDAC for information and availability
Not all combinations are available

HRGKSM Series

Quick Release Swivel Bolt Clamps

For more detailed information on the HYRAC Clamps please refer to the HYDAC Accumulator Catalog



Description

The HRGKS is a clamp designed to mount cylindrical components. It is similar to the HYDAC HYRAC clamp, which is designed for accumulators, with some additional benefits that make it more practical for non-accumulator applications.

Features / Benefits

- Swivel Assembly Provides for simple installation and a tight fit
- Support Base Provides easy access to bolts / unit easy to install
- The clamp rotates ~270° / Easy access
- Polyethylene profile does not compress
Clamp stays tight over time

HRGKSM vs. HYRAC*

Difference	HRGKSM	HYRAC
Profile Material	Polyethylene	Rubber
Capability to Rotate	Can be rotated 270°	Fixed at 90°
Fit in clamp	Component sits flat	Two nubs ensure H dimension is consistent with other HYDAC Accumulator Clamps

*HYRAC clamp sizes 96-100 and under have the same construction as the HRGKSM Series

Materials

Description	Material / Coating
Support Base	Zinc Plated Steel
Polyethylene Profile	Polyethylene
Quick Release Swivel Bolt	Zinc-Plated Steel
Band Strap	Stainless Steel

HSPN Series



Description

P style clamp used for mounting a multitude of light duty applications including cables, pneumatic lines, and conduit.

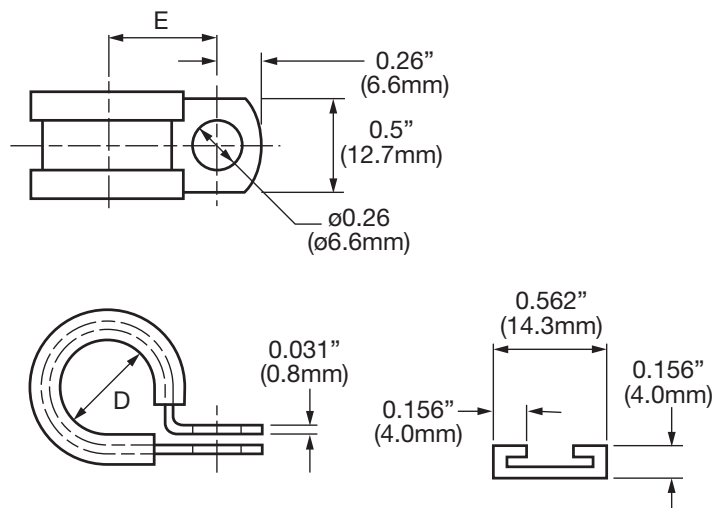
Features

HSPN clamps provide electrical insulation and vibration absorption.

Materials

- EPDM cushion
- Steel clamps are zinc electroplated for corrosion resistance
- Color- Silver with black EPDM cushion
- The A2 in the model code denotes 304 stainless steel

Dimensions (Contact HYDAC)



Band Straps

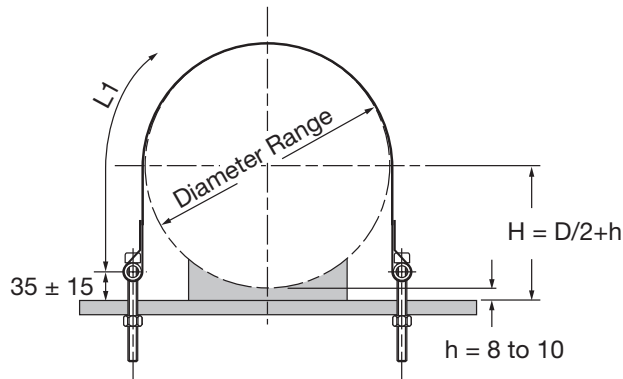


Description

For OEM's requiring mounting solutions to secure non-cylindrical objects such as plastic fuel tanks, HYDAC offers steel band straps.

Item Description/Material

- | | |
|---|--|
| 1 | Clamping Band, Stainless Steel |
| 2 | Metric Zinc-Plated Steel Socket Head Bolts (Note: other bolt and connection styles are available based on customer's specifications) |
| 3 | Nuts, Zinc Plated Steel |
| 4 | Swivel Sleeve, Zinc Plated Steel |
| 5 | Rubber Profile |



Dimensions

	Width x Thickness	Length Range (L1)
Light Range	25 x 1	187 - 921 mm
Heavy Range	30 X 1	232 - 1511 mm
Heavy II Range	30 X 1.5	232 - 1511 mm

HROS Series

Oval Clamps



Description

Oval clamps are ideal for mobile applications where space is limited. One-piece, hinged polypropylene clamp body.

Features

- Low Profile Design
- Easy installation

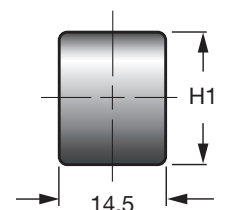
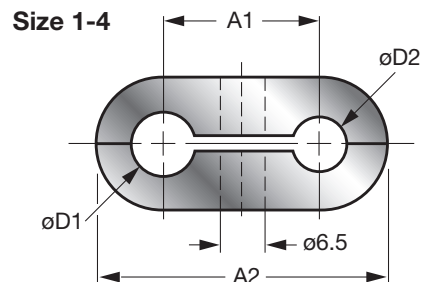
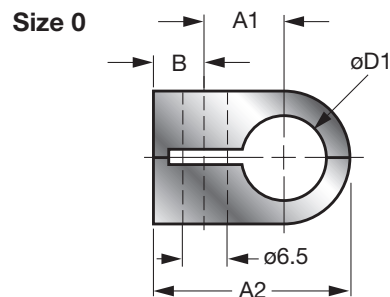
Materials

- PP - Polypropylene (standard)
- PA or others may be available

Temp Specifications

-22° to 194°F (-30° to 90°C)

Dimensions (Contact HYDAC)



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