

## Clamps

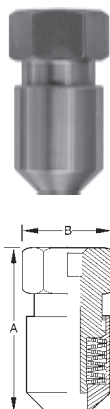
### 3 Segment Clamps - 13MHHM-3P



Tube OD	Service Pressure Rating @ 70°F *	Dimension A	304 Stainless Steel	
			Part #	Price / Each
1" - 1½"	<b>600 PSI</b>	2.122	<b>13MHHM-3P100150</b>	<b>\$28.60</b>
2"	<b>550 PSI</b>	2.654	<b>13MHHM-3P200</b>	<b>32.15</b>
2½"	<b>450 PSI</b>	3.185	<b>13MHHM-3P250</b>	<b>38.50</b>
3"	<b>350 PSI</b>	3.717	<b>13MHHM-3P300</b>	<b>44.95</b>
4"	<b>300 PSI</b>	4.820	<b>13MHHM-3P400</b>	<b>54.60</b>
12"	<b>75 PSI</b>	12.740	<b>13MHHM-3P1200</b>	<b>656.30</b>

\* Wing nut tightened to 25 in. lbs. torque

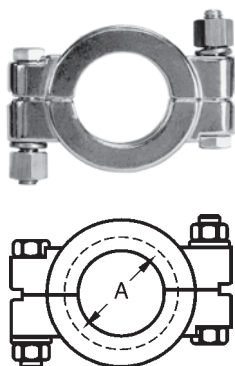
### Spring Loaded Nut



Dimensions		Thread	Part #	Price / Each
A	B			
1.73	.875	5/16 - 18	<b>13SLN</b>	<b>\$91.15</b>

- Lines using PTFE gaskets subject to large temperature swings can benefit from the spring loaded nut. As the PTFE is compressed through the cycling of the lines, the spring load will keep the connection from leaking.
- If the lines suffer from vibration and bolted clamps are not an option, refitting single pin clamps with this nut will keep the connections from leaking for a longer time than the standard wing nuts.
- If you transport material in tanks via truck, the vibrations can loosen the standard single pin clamps. Spring loaded nuts can add a level of insurance to the shipment.
- Tighten to 50 in. lbs. as noted on the nut.

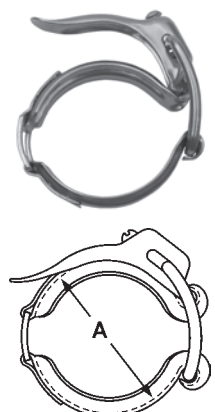
### Bolted Clamps - 13MHP



Tube OD	Service Pressure Rating @ 70°F *	Service Pressure Rating @ 250°F *	Dimension A	304 Stainless Steel	
				Part #	Price / Each
½" - ¾"	<b>1500 PSI</b>	<b>1200 PSI</b>	1.062	<b>13MHP75</b>	<b>\$33.35</b>
1" - 1½"	<b>1500 PSI</b>	<b>1200 PSI</b>	2.046	<b>13MHP100-150</b>	<b>26.25</b>
2"	<b>1000 PSI</b>	<b>800 PSI</b>	2.578	<b>13MHP200</b>	<b>31.75</b>
2½"	<b>1000 PSI</b>	<b>800 PSI</b>	3.110	<b>13MHP250</b>	<b>34.85</b>
3"	<b>1000 PSI</b>	<b>800 PSI</b>	3.640	<b>13MHP300</b>	<b>39.45</b>
4"	<b>800 PSI</b>	<b>600 PSI</b>	4.744	<b>13MHP400</b>	<b>50.45</b>
6"	<b>300 PSI</b>	<b>200 PSI</b>	6.632	<b>13MHP600</b>	<b>91.75</b>
8"	<b>250 PSI</b>	<b>150 PSI</b>	8.638	<b>13MHP800</b>	<b>285.60</b>
10"	<b>200 PSI</b>	<b>125 PSI</b>	10.740	<b>13MHP1000</b>	<b>902.10</b>
12"	<b>150 PSI</b>	<b>100 PSI</b>	12.740	<b>13MHP1200</b>	<b>1017.35</b>

\* Bronze nuts tightened to 20 ft. lbs. torque

### Toggle Clamps - 13MHLA



Tube OD	Service Pressure Rating @ 70°F *	Dimension A	304 Stainless Steel	
			Part #	Price / Each
1" - 1½"	<b>150 PSI</b>	2.122	<b>13MHLA100-150</b>	<b>\$39.30</b>
2"	<b>150 PSI</b>	2.654	<b>13MHLA200</b>	<b>40.20</b>
2½"	<b>150 PSI</b>	3.185	<b>13MHLA250</b>	<b>45.80</b>
3"	<b>150 PSI</b>	3.717	<b>13MHLA300</b>	<b>58.65</b>
4"	<b>100 PSI</b>	4.820	<b>13MHLA400</b>	<b>64.30</b>

\* Screw tightened to maximum