



WAVESEAL 360®

SELF-ADJUSTING, CONSTANT PRESSURE CLAMP

Thermal cycling, cold flow, and temperature fluctuations are among the main reasons leaks occur. The uniquely engineered profile of the **Ideal Tridon WaveSeal 360®** hybrid smart clamp secures hose connections and prevents the unwanted flow of fluid and air. Through its patented hybrid technology, this next generation clamp seals in a steady 360-degree pattern in response to pressure and temperature changes. And with its compact design and lower profile, you get an optimal heavy-duty constant tension clamp without all the bulk.



Features and Benefits

- **Ultra Lightweight:** WaveSeal 360® weighs 1/3 of traditional clamps. Buses can save an average of 15 lbs. in clamp weight alone, leading to greater fuel efficiency.
- **Wave Ring Systems:** The unique “W” shaped wave ring on the WaveSeal 360® creates a steady 360 degree seal in response to changing temperatures and during expansion and contraction.
- **Various Sizes Available:** Clamps are available in standard sizes with custom sizes available upon request, contingent on high volume or estimated annual usage.
- **All Stainless Steel Construction:** Provides superior corrosion resistance and durability in harsh environments.
- **5/16” Hex Head:** Captured screw provides trouble free tensioning.
- **Patented W-Shaped Design:** Two inward beads form independent lines of higher pressure creating a duplication of sealing reliability. Central annular groove section, between the two beads of pressure, creates an o-ring effect, trapping a portion of the hose component to act as a spring.

FIND YOUR PART NUMBER

Size	Min (in)	Max (in)	Min (mm)	Max (mm)	WaveSeal 360®
16	13/16	1-19/64	21	33	36003-0016
20	1-1/16	1-9/16	26	40	36003-0020
22	1-1/8	1-11/16	29	43	36003-0022
24	1-3/16	1-13/16	30	46	36003-0024
28	1-5/16	2-1/16	34	52	36003-0028
32	1-9/16	2-5/16	39	59	36003-0032
34	1-5/8	2-7/16	41	62	36003-0034
36	1-11/16	2-9/16	43	65	36003-0036
40	1-13/16	2-13/16	46	71	36003-0040
44	2-1/16	3-1/16	52	78	36003-0044
48	2-3/16	3-5/16	56	84	36003-0048
52	2-3/8	3-9/16	60	91	36003-0052
56	2-1/2	3-13/16	64	97	36003-0056
60	2-11/16	4-1/16	68	103	36003-0060
64	2-13/16	4-5/16	71	110	36003-0064
72	3-3/16	4-13/16	81	122	36003-0072
80	3-9/16	5-5/16	90	135	36003-0080
88	3-13/16	5-13/16	97	148	36003-0088



HOW WAVESEAL 360® CLAMP SYSTEMS BEAT STANDARD CLAMPS

Ideal Tridon WaveSeal 360® Clamp Systems were designed in response to the leakage attributed to thermal cycling - a heat therapy treatment that involves alternating hot and cold temperatures, followed by a rest period - plus today's challenging constraints on space & weight.



INTEGRATED TWO-PIECE DESIGN

WaveSeal 360® Clamps are comprised of two main parts: the clamp assembly and the wave ring.

- » The wave ring is high quality stainless steel and inside the clamp
- » Specifically tempered, thin gauge steel reacts to temperatures
- » The clamp rides on the wave ring to evenly distribute pressure around the hose
- » Becomes a smart clamp on the hose, expanding or contracting with temperature changes

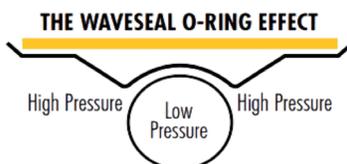
TESTED TOUGH

Leak pressure tests show that WaveSeal 360® clamps perform better in thermal cycling than typical constant tension clamps. Further testing revealed WaveSeal 360® Clamp Systems perform even better over time when compared to other leading brands in the same category.

A PROVEN DESIGN PARTNER

Ideal Tridon has spent decades engineering the world's best clamping products, and can provide customized solutions to fit your demanding applications contingent on high volume or estimated annual usage. We offer a wide range of materials to choose from and can engineer a custom clamping product that meets or exceeds your expectations. In fact, our engineers become your engineers. And they are ready to help you find new ways to build stronger, lighter, and more compact clamping assemblies today or for a future project.

Ideal Tridon WaveSeal 360® Clamp Systems are engineered to last longer and perform better than old-school clamps in the most demanding environments.



- » Spring compensation over 360 degrees
- » Improved clamp roundness eliminates leak paths at housing juncture
- » O-Ring effect allows hose to act as an additional spring component
- » Outside, chamfered liner edge protects hose component from cutting