



AFRINOX Stainless Steel Crimp-Loc System



Design & Installation Guide – 2026

*Premium Stainless Steel Crimp Systems – Precision-Engineered
for Lasting Performance*

Afrinox delivers the superior benefits of stainless steel in a fast, reliable crimp system. Designed for demanding commercial, industrial, and residential applications, it offers exceptional corrosion resistance, zero maintenance, and a 50-year service life — with a 25-year leak-free guarantee when installed by certified Afrinox installers.

Key Advantages – Why Choose Afrinox?

- **Fast & Safe Installation**
No flames, no hot-works permits, no draining systems. Just Crimp — faster and cleaner than brazed copper or welded alternatives.
- **Premium Material**
High corrosion resistance, suitable for potable water, HVAC, chemicals, and gas (with correct O-ring). Sizes 15–108 mm.
- **Leak Detection Built-In**
“Push & Stay + Leak Path” feature: unpressed joints visibly leak during testing — zero guesswork.
- **Rigid, Permanent Joints**
‘M’ profile press ensures turbulence-free flow and watertight connections for life.
- **Cost-Effective Long-Term**
Low total ownership cost, minimal maintenance, and competitive pricing.



Fields of Application & O-Ring Selection

Choose the right O-ring for maximum performance:

- **Black EPDM**
Potable/hot/cold water, chilled/heating water, cooling, rainwater, swimming pools, RO systems (–20°C to 99°C, 16 bar).
- **Red FKM**
Solar, compressed air, chemicals, industrial/non-potable use (up to 99°C).
- **Yellow HNBR**
Natural/liquid gas (indoor/outdoor, max 16 bar; not in-ground).

Quality & Compliance

- Manufactured from certified 304 and 316L (EN 1.4404) austenitic stainless steel.
- Complies with SANS 10252-1, DIN EN 10312, WRAS, and other international standards.
- 100% eddy-current tested welds, full hydraulic pressure testing (5 MPa), and annealing.
- Potable water approved; suitable for food, engineering, and HVAC applications.

Pipe Dimensions (5.8 m lengths)

- DN15 (OD 15 mm, wall 1.0 mm) → DN100 (OD 108 mm, wall 2.0 mm).
- Working pressure: 16 bar (hot/cold water); higher possible subject to application.



Afrinox combines world-class precision engineering with local expertise — delivering reliable, hygienic, and durable piping solutions across sub Saharan Africa.

Installation Highlights – Quick & Reliable

- 1. Cutting & Preparation**
Use burr-free cutters & deburr inside/outside (no abrasive wheels).
- 2. Insertion Depth Marking**
Essential witness marks (e.g., 21 mm for 15–22 mm; 78 mm for 108 mm).
- 3. Assembly**
Lubricate O-ring with water/talc only. Rotate pipe to stop → verify mark.
- 4. Pressing**
Use approved M-profile jaws/collars. Full cycle required; tool alerts on failure.
- 5. Expansion Compensation**
Coefficient 16.5×10^{-6} m/mK. Use bends, loops, or bellows (>28 mm) for hot water runs.
- 6. Support & Fixing**
Rubber-lined pipe clamps only. Fixed/sliding points as required. Min. distances between fittings: 10–30 mm depending on size.
- 7. Testing**
1.5 × operating pressure (water).

Chemical Compatibility (Key Examples)

304 and 316L stainless handles most fluids well (e.g., water, glycol, many acids/bases).

Always match O-ring:

- Safe with EPDM: Water, ethylene glycol, many dilute acids.
- Use FKM/HNBR for compressed air, oils, certain chemicals.
- Avoid direct contact with high-chloride insulation or ferrous materials (use spacers).
- Refer fluid and seal compatibility table

Training, Support & Warranty

- **Certified Training**
3-stage program (Press Jointing → Best Practice Installation → QA & Warranty). Held in Cape Town or on-site.
- **Tool Support**
Hire, sales, and fast servicing available.
- **Warranty**
25-year leak-free guarantee (materials & joints) when using certified installers, tools, and following guidelines. Designed for 50-year life. Max liability limits apply.





Afrinox 316L pipe sizes

Nominal Size	Outside Diameter (mm)	Wall Thickness (mm)	Dry Weight (kg/m)	Wet Weight (kg/m)	Volume (l/m)	Standard Length (m)
DN15	15	1.0	0.349	0.560	0.169	5.8
DN20	22	1.2	0.625	0.928	0.302	5.8
DN25	28	1.2	0.805	1.321	0.515	5.8
DN32	35	1.5	1.258	2.062	0.804	5.8
DN40	42	1.5	1.521	2.718	1.195	5.8
DN50	54	1.5	1.972	4.015	2.043	5.8
DN65	76.1	2.0	3.711	7.794	4.083	5.8
DN80	88.9	2.0	4.352	10.58	6.232	5.8
DN100	108	2.0	5.308	13.81	8.495	5.8



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