Product Data

Patented

Advanced® Couplings Limited

ACL® SSH A22 / SAFX A22

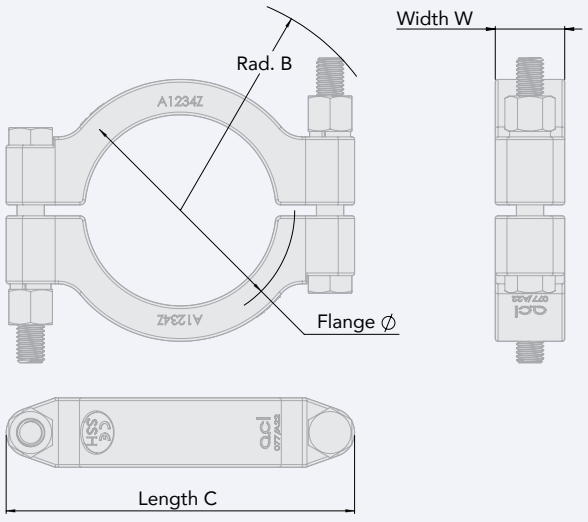
Alloy 22 Clamps

To satisfy certain stringent industry requirements, ACL® has developed a range of **Alloy 22 clamps** to accompany the range of Alloy 22 fittings.

The clamps are able to withstand highly corrosive environments due to the material composition. The clamps have the same overall design and functionality that the existing CF8 / CF8M clamps exhibit; but with the added benefit of a superior material of construction.

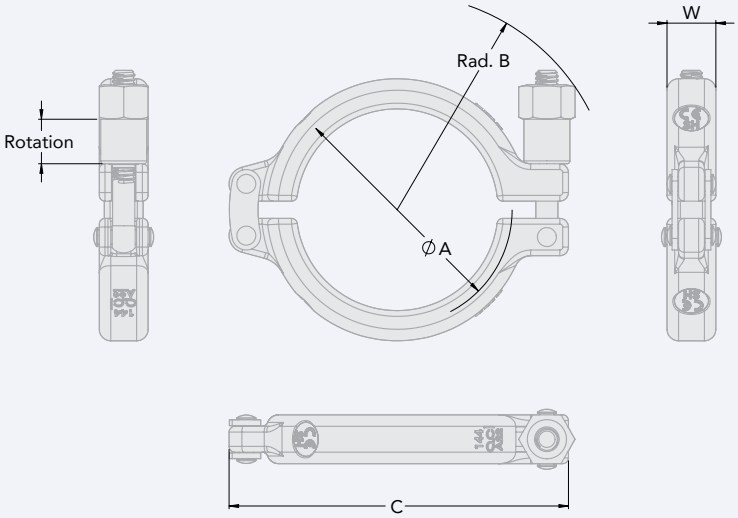
The clamp sizes and styles which are now in stock at ACL® are as per the diagrams and tables below:

SSH A22 Type Clamp



Nominal Clamp Size	Dimensions (mm)				Mass (Kg)	Ordering Codes SSH A22
	Flange ØA	Radius B	Length C	Width W		
1 - 1½"	50.5	60.0	103.0	26.0	0.66	CL.SSH.0100.H
2"	64.0	67.0	113.0	26.0	0.82	CL.SSH.0200.H

SAFX A22 Safety (Hex Nut) Clamp

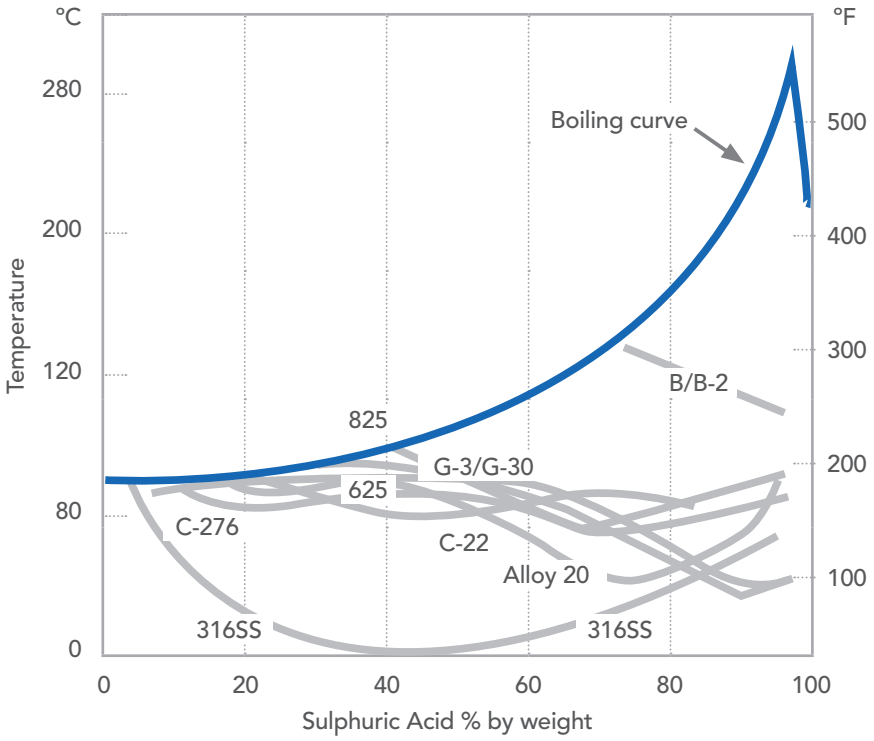


Nominal Clamp Size	Dimensions (mm)				Mass (Kg)	Wing-nut Release Rotations	Ordering Codes SAFX A22
	Flange ØA	Radius B	Length C	Width W			
½ - ¾"	25.4	53.0	65.0	17.0	0.14	9	CL.SAFX.0050.H
1 - 1½"	50.5	72.0	92.0	17.0	0.24	10	CL.SAFX.0100.H
2"	64.0	83.0	113.0	17.0	0.32	10	CL.SAFX.0200.H

Advanced® Couplings Limited

ACL® SSH A22 / SAFX A22
Alloy 22 Clamps

Iso-corrosion Curves for some Stainless Steels and Nickel Alloys in Reagent Grade Sulphuric Acid – 0.5mm/y (20mpy)



Alloy selection for service in sulphuric acid *A Guide To The Use Of Nickel-Containing Alloys – Knowledge For A Brighter Future* (n.d.)

References

Alloy selection for service in sulphuric acid *A Guide To The Use Of Nickel-Containing Alloys – Knowledge For A Brighter Future* (n.d.)

Available at: *https://www.nickelinstitute.org/media/4122/alloy-selection-for-service-in-sulphuric-acid-10057.pdf*

Accessed 10th June 2020

Quality Assurance

The ACL Quality Management System is certified according to EN ISO 9001:2015. We ensure that our suppliers also maintain a certified Quality Management System.

All materials used in the construction of the SH Clamp conform to ASME Standards.

Material Standards

ASME SA494 / A494 M – Clamp segments – C2XMW (Cast A22)

ASME SB574 – Eyebolts / Bolts – A22

ASME SB574 – Rivets – A22

ASME SB574 – Hexagon safety nut / Hex nuts – A22

ASME SB574 – Hinge plates – A22

Investment cast using ASME SA494 / 494M CX2MW nickel alloy

Pickled and passivated – this process removes the 'free iron' particles from the surface that would 'rust'.

Barrel polished and sized using hydraulic press

- Ensures uniformity between the clamps
- Uniform extrusion of the gasket in a union
- Reduces 're-torqueing' of clamp after pressure/temperature cycles

Quality Control

- XRF (X-Ray Fluorescence) and PMI (Positive Material Identification) to ensure correct chemical composition
- Castings visually inspected to ensure no cracks/blowholes to comply with ASME SA-494 / 494M

Documentation & Traceability

- 3.1 certificate (heat number stamped on casting at foundry)
- The castings are stamped according to the pour date at the foundry
- The 4/5 digit number is unique to the size and style of the clamp

Further Information

For detailed selection criteria, technical information, installation guidelines or to contact ACL, please visit our website:

Issue 1 - June 2020