

HIGH PRESSURE SANITARY TRI-CLAMP

HPTC

304 Stainless Steel High Pressure Tri-Clamp, 1.5" to 12"

USA Lab High Pressure Tri-Clamps are built from durable 304 stainless steel and provide strong sealing support for compatible Tri-Clamp fittings and gasket assemblies. Rated up to 1500 PSI at 70°F depending on clamp size, they are designed for demanding laboratory, extraction, processing, and manufacturing applications.

- ✓ **High pressure rating.** Up to 1500 PSI at 70°F depending on clamp size.
- ✓ **Durable stainless build.** Corrosion-resistant 304 stainless steel for lab and industrial use.
- ✓ **Strong sanitary sealing.** Sealing support for compatible Tri-Clamp fittings and gasket assemblies.
- ✓ **Eight clamp sizes.** Available in 1.5", 2", 3", 4", 6", 8", 10", and 12".
- ✓ **Defined torque spec.** 12-14 Nm max torque across all sizes.

MODEL HPTC



150 to 1500 PSI
MAX PRESSURE AT 70F

100 to 1200 PSI
MAX PRESSURE AT 250F

1.5 to 12 in
CLAMP SIZE

12 to 14 Nm
MAX TORQUE, ALL SIZES

1 to 5 lb
WEIGHT

Technical Specifications

Model HPTC

PERFORMANCE

Max pressure @70F	150 to 1500 PSI
Max pressure @250F	100 to 1200 PSI
Pressure rating	Up to 1500 PSI at 70°F depending on clamp size
Max torque	12-14 Nm
Max torque (ft)	8.85-10 Ft Lbf
Max torque (in)	106-124 In Lbf

OPERATION

Connection type	Sanitary Tri-Clamp Connections
Compatibility	Compatible Tri-Clamp fittings and gasket assemblies
Available sizes	1.5", 2", 3", 4", 6", 8", 10", and 12"
Before use	Verify system compatibility, gasket material, clamp size, and pressure rating
Rating conditions	May vary with system setup, temperature, gasket, and installation

CONSTRUCTION

Material	304 stainless steel
Finish	Corrosion-resistant
Item class	Stainless Steel Components
Brand	USA Lab
Model / MPN	HPTC

DIMENSIONS AND WEIGHT

Length	4 to 15.5 in
Width	3 to 13 in
Height	0.75 to 1 in
Weight	1 to 5 lb

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	SIZE
HPTC15	High Pressure Tri Clamp, 1.5" 1500 PSI @70F; 1200 PSI @250F	1.5" 4 × 3 × 0.75 in, 1 lb
HPTC2	High Pressure Tri Clamp, 2" 1000 PSI @70F; 800 PSI @250F	2" 4.5 × 3 × 0.75 in, 1 lb
HPTC3	High Pressure Tri Clamp, 3" 1000 PSI @70F; 800 PSI @250F	3" 5.5 × 4 × 0.75 in, 1 lb
HPTC4	High Pressure Tri Clamp, 4" 800 PSI @70F; 600 PSI @250F	4" 6.5 × 5 × 0.75 in, 1.5 lb
HPTC6	High Pressure Tri Clamp, 6" 300 PSI @70F; 200 PSI @250F	6" 8.5 × 7 × 1 in, 3 lb
HPTC8	High Pressure Tri Clamp, 8" 250 PSI @70F; 150 PSI @250F	8" 10.5 × 8.5 × 1 in, 3.5 lb
HPTC10	High Pressure Tri Clamp, 10" 200 PSI @70F; 125 PSI @250F	10" 13.25 × 11 × 1 in, 4.5 lb
HPTC12	High Pressure Tri Clamp, 12" 150 PSI @70F; 100 PSI @250F	12" 15.5 × 13 × 1 in, 5 lb

IDEAL APPLICATIONS

- Botanical extraction
- Pharmaceutical
- Chemical sciences
- Academic and research
- Tanks and vessels
- Piping and columns

Specifications by Size

Model HPTC

Specification	1.5" HPTC15	2" HPTC2	3" HPTC3	4" HPTC4
Max pressure @70F	1500 PSI	1000 PSI	1000 PSI	800 PSI
Max pressure @250F	1200 PSI	800 PSI	800 PSI	600 PSI
Length	4 in	4.5 in	5.5 in	6.5 in
Width	3 in	3 in	4 in	5 in
Height	0.75 in	0.75 in	0.75 in	0.75 in
Weight	1 lb	1 lb	1 lb	1.5 lb

Specification	6" HPTC6	8" HPTC8	10" HPTC10	12" HPTC12
Max pressure @70F	300 PSI	250 PSI	200 PSI	150 PSI
Max pressure @250F	200 PSI	150 PSI	125 PSI	100 PSI
Length	8.5 in	10.5 in	13.25 in	15.5 in
Width	7 in	8.5 in	11 in	13 in
Height	1 in	1 in	1 in	1 in
Weight	3 lb	3.5 lb	4.5 lb	5 lb