

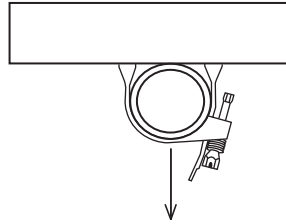


FIBERGLASS CLAMPS DESIGN LOAD INFORMATION

There are two types of piping system loadings, overhead (Type 1) and vertical (Type 2) as described below. All pipe straps and clamps show the recommended loading for both types of loading.

Type 1 Overhead Design Load

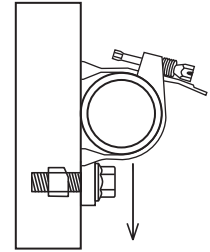
The design load shown represents pipes supported below the strut. The design loads shown are based on a minimum ultimate failure safety factor of 3:1.



Type 2 Vertical Design Load

The design loading shown can be achieved with the addition of a vertical stop lock assembly (Part #F200-4219) installed directly beneath the pipe clamp. The adjacent illustration shows how the vertical stop lock assembly provides additional support for pipe and how it can be used to achieve full Type 2 design loads.

Design loads are based on a minimum clamp slip safety factor of 3:1. It is recommended that stop lock assemblies be used for all vertical pipe support applications.



CHEMICAL COMPATIBILITY TABLE

Chemical	Series									
	E		P		V		PU		N	
	Rigid PVC		Poly/Glass		Vinyl/Glass		Poly		Nylon	
	70°	160°F	70°	160°F	70°	160°F	70°	160°F	70°	160°F
Acetic Acid, Up to 50%	R	R	R	R	R	R	R	-	nr	nr
Acetone, Up to 10%	nr	nr	nr	nr	nr	nr	R	-	R	R
Aluminum Hydroxide	R	R	R	R	R	R	R	-	nr	nr
Ammonium Hydroxide (Aqueous Ammonia), Up to 5%	R	R	nr	nr	R	R	R	-	-	-
Ammonium Hydroxide (Aqueous Ammonia), Up to 10%	R	R	nr	nr	R	150°	R	-	-	-
Ammonium Hydroxide, Up to 20%	R	R	nr	nr	R	150°	R	-	-	-
Ammonium Nitrate	R	nr	R	R	R	R	R	-	-	-
Ammonium Phosphate	R	R	R	nr	R	R	R	-	-	-
Ammonium Sulfide, saturated	R	R	nr	nr	R	120°	R	-	-	-
Aqua Regia, fumes	nr	nr	nr	nr	R	150°	nr	-	-	-
Benzene	nr	nr	nr	nr	nr	nr	R	R	-	R
Benzoic Acid	R	R	R	R	R	R	R	-	-	-
Bromine, wet gas	R	nr	nr	nr	R	100°	-	-	-	-
Butylene Glycol, Up to 100%	R	R	R	R	R	R	R	-	R	R
Butyric Acid, Up to 50%	nr	nr	R	R	R	R	R	-	-	-
Calcium Hydroxide	R	R	R	nr	R	R	R	-	-	-
Calcium Hypochlorite	R	R	R	nr	R	R	R	-	nr	nr
Chlorine, Dry Gas	nr	nr	nr	nr	R	R	-	-	-	-
Chlorine, Wet Gas	nr	nr	nr	nr	R	R	-	-	-	-
Chlorine, Liquid	nr	nr	nr	nr	nr	nr	-	-	-	-
Chlorine, Water	nr	nr	R	R	R	R	R	-	nr	nr
Chromic Acid, Up to 5%	R	R	nr	nr	R	R	-	-	R	R
Copper Chloride	R	R	R	R	R	R	R	-	-	-
Copper Cyanide	R	R	R	nr	R	R	R	-	-	-
Copper Fluoride	R	R	R	nr	R	R	R	-	-	-
Copper Nitrate	R	R	R	R	R	R	R	-	-	-
Copper Sulfate	R	R	R	R	R	R	R	-	-	-
Dechlorinated Brine Storage	R	R	-	-	R	R	R	-	-	-
Esters, Fatty Acid	nr	nr	R	R	R	R	R	-	-	-
Ferric Chloride	R	R	R	R	R	R	R	-	-	-
Ferrous Chloride	R	R	R	R	R	R	R	-	-	-
Fluoboric Acid	R	R	R	120°	R	R	-	-	-	-
Fluosilicic Acid, Up to 10%	nr	nr	nr	nr	R	R	-	-	nr	nr
Fluosilicic Acid, Up to 32%	nr	nr	nr	nr	R	100°	-	-	-	-

CHEMICAL COMPATIBILITY TABLE

Chemical	Series									
	E		P		V		PU		N	
	Rigid PVC		Poly/Glass		Vinyl/Glass		Poly		Nylon	
	70°	160°F	70°	160°F	70°	160°F	70°	160°F	70°	160°F
Formic Acid, Up to 10%	R	R	nr	nr	R	R	R	-	nr	nr
Formic Acid, Up to 50%	R	R	nr	nr	R	100°	R	-	-	-
Gasoline, Aviation	R	nr	R	nr	R	R	R	-	-	-
Green Liquor, Pulp Mill	R	R	-	-	R	R	-	-	-	-
Hydrochloric Acid, Up to 15%	R	R	R	nr	R	R	R	-	-	-
Hydrochloric Acid, Up to 37%	R	R	R	nr	R	R	R	-	-	-
Hydrofluoric Acid, Up to 10%	R	R	nr	nr	R	150°	-	-	-	-
Hydrofluoric Acid, Up to 20%	R	nr	nr	nr	R	100°	-	-	-	-
Hydrogen Chloride Wet Gas	nr	nr	R	nr	R	R	nr	-	-	-
Hydrogen Sulfide Wet Gas	R	R	R	nr	R	R	R	-	-	-
Lactic Acid	R	R	R	nr	R	R	R	-	-	-
Lead Nitrate	R	R	-	-	R	R	R	-	-	-
Magnesium Hydroxide	R	R	nr	nr	R	R	R	-	R	R
Nickel Sulfate	R	R	nr	nr	R	R	R	-	-	-
Nitric Acid, Up to 5%	R	R	nr	nr	R	150°	R	-	-	-
Nitric Acid, Up to 35%	R	R	nr	nr	R	150°	R	-	-	-
Nitric Acid, Vapor	R	R	nr	nr	R	R	R	-	-	-
Perchloric Acid, Up to 10%	nr	nr	nr	nr	R	150°	R	-	nr	nr
Pickling Liquids, 3-5% H2SO4	R	R	R	R	R	R	R	-	-	-
Phosphoric Acid	R	R	nr	nr	R	R	R	-	nr	nr
Super or Poly (115%, P20%)	R	R	nr	nr	R	R	R	-	-	-
Vapor or Condensate	R	R	nr	nr	R	R	R	-	-	-
Potassium Chloride	R	R	R	R	R	R	R	-	-	-
Potassium Nitrate	R	R	R	R	R	R	R	-	-	-
Potassium Persulfate	R	R	nr	nr	R	R	R	-	-	-
Silver Cyanide, Up to 5%	R	R	nr	nr	R	R	R	-	-	-
Sodium Hydroxide, Up to 25%	R	R	nr	nr	R	150°	R	-	-	-
Sodium Hydroxide, Up to 50%	R	R	nr	nr	R	180°	R	-	R	R
Sodium Hypochlorite, Up to 15%	R	R	nr	nr	R	150°	R	-	nr	nr
Sodium Nitrate	R	R	R	R	R	R	R	-	-	-
Sodium Sulfate	R	R	R	nr	R	R	R	-	-	-
Sodium Sulfide	R	R	nr	nr	R	R	R	-	-	-
Sulfuric Acid, Up to 25%	R	R	R	R	R	R	R	-	nr	nr
Sulfuric Acid, Up to 70%	R	R	nr	nr	R	R	R	-	nr	nr
Sulfuric Acid, Up to 75%	nr	nr	nr	nr	R	120°	R	-	nr	nr
Sulfuric Acid, Up to 80%	nr	nr	nr	nr	nr	nr	nr	-	nr	nr
Sulfuric Acid, Vapor	R	R	R	nr	R	R	R	-	-	-
Trichlorethylene, Fumes	nr	nr	nr	nr	R	120°	R	-	-	-
Trisodium Phosphate	R	R	R	nr	R	R	R	-	-	-
Urea	R	R	R	nr	R	150°	R	-	R	R
Vegetable Oils	R	R	R	R	R	R	R	-	R	R
Vinegar	R	R	R	R	R	R	R	R	R	R
White Liquor, Pulp Mill	R	R	-	-	R	R	R	-	-	-

Note

The recommendations contained in this table are made without guarantee of representation as to results. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Unistrut as to effects of such use or results to be obtained nor does Unistrut assume any liability arising out of the use by others of the products referenced in this table. Nor is the information herein to be construed as absolutely complete since additional information may be needed or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material.

Legend

- “nr” - “Not Recommended” for use
- “R” - “Recommended”
- “-” - no information available

1 1/2" System
 1 1/4" System
 1 3/16" System
 Fiberglass System
 Special Metals
 Prime Angle
 Metal Grating
 Roofwalk
 Index