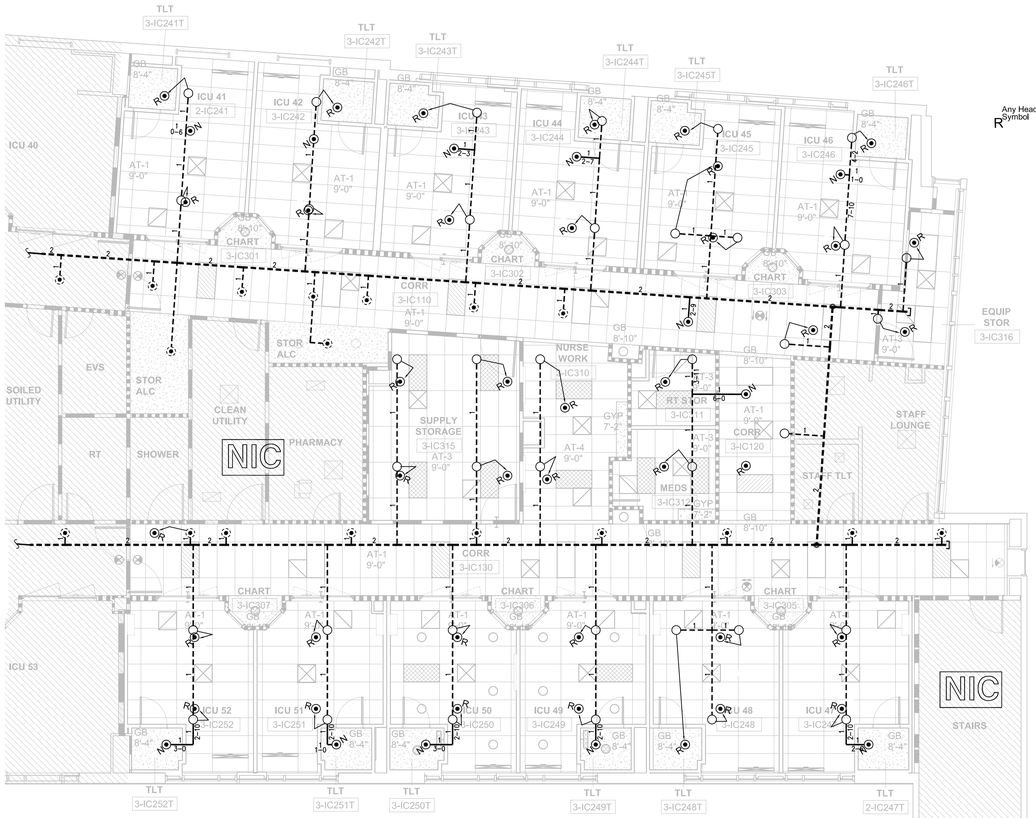
RSN: 1729852
Permit # 2023-2360511-CT
Sheet 1 of 17

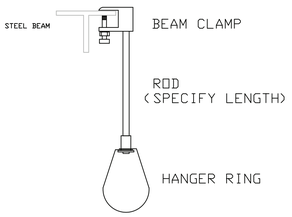


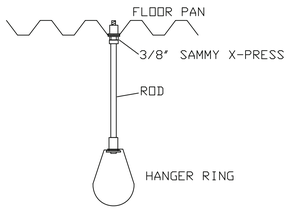
3rd FLOOR FIRE SPRINKLER PLAN

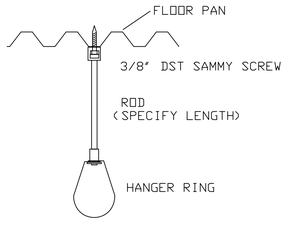
1/8" = 1'-0"

SYMBOL LEGEND:

	QTY.
Existing Head To Remain	
New Head	12
Relocated Head	39
Plugged Head	
Existing Steel Pipe	
New Steel Pipe	

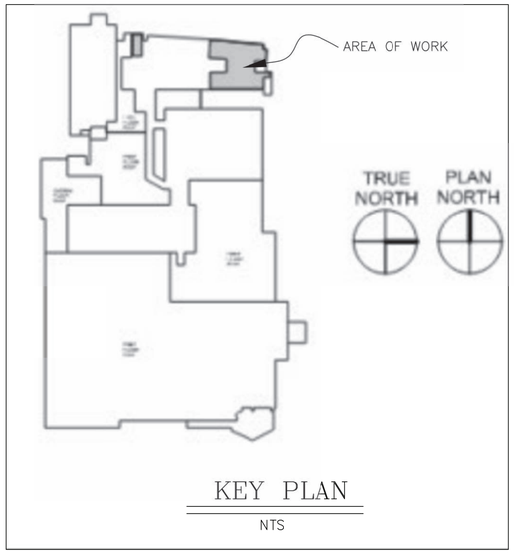






HANGER DETAILS

NTS



KEY PLAN

NTS

City of Aurora Building Division
Counter Permit intake by: RET
Date: Jul 18, 2023
RSN: 1729852
Permit: 2023 2360511 CT
2021 INTERNATIONAL CODES & 2020 NEC Scope of permit to be field verified.

COA Adopted Codes for this project:
ICC-2021 - NEC-2020
NFPA 13-2019 - NFPA 72-2019
COA Amendments 22 & 66

Provide a full size set of legible approved construction documents **PRINTED IN COLOR** for review by the Field Inspector.

1

Applicable Codes:

Where different versions of building codes conflict, the more restrictive code shall be followed.

STATE OF COLORADO

2021	International Building Code (IBC) As adopted by the Colorado State Buildings Program as follows: Chapter 1 as amended, Chapters 2-35 and Appendices C and I.
2021	International Existing Building Code (IEBC) As adopted by the Colorado State Buildings Program as follows: Chapters 2-16, Appendices 1-C and Resource A.
2015	International Mechanical Code (IMC) As adopted by the Colorado State Buildings Program as follows: Chapters 2-15, Appendice A.
2015	International Energy Conservation Code (IECC) As adopted by the Colorado State Buildings Program.
2020	National Electrical Code (NEC) (NFPA 70) As adopted by the Colorado State Electrical Board.
2015	International Plumbing Code (IPC) As adopted by the Colorado Examining Board of Plumbers.
2018	International Fuel Gas Code (IFGC) As adopted by the Colorado Examining Board of Plumbers.
2018	National Fire Protection Association Standards (NFPA)
2015	International Fire Code (IFC)
2017	ICC A117.1 Accessible and Usable Buildings and Facilities As referenced in the adopted edition of the International Building Code.
2010	ADA Standards for Accessible Design
2018	Facility Guidelines Institute (FGI) Guidelines for Design and Construction of Hospitals
2021	NFPA 170 Standards for Fire Safety and Emergency Symbols
2021	NFPA 3 Standard for Commissioning of Fire Protection and Life Safety Systems
2021	NFPA 4 Standard for Integrated Fire Protection and Life Safety System Testing
2012	NFPA 99 Health Care Facilities Code
2012	NFPA 101 Life Safety Code

CITY OF AURORA

2015*	International Building Code (IBC) and Amendments
2015*	International Energy Conservation Code (IECC) and Amendments
2015*	International Mechanical Code (IMC) and Amendments
2015*	International Plumbing Code (IEBC) and Amendments
2015*	Fire Code and Amendments
2015*	International Fuel and Gas Code
2020	National Electrical Code

*PROJECT IS BEING SUBMITTED UNDER 2015 VERSIONS OF THE INTERNATIONAL CODES PER ALLOWANCE ON CITY OF AURORA'S ADOPTED BUILDING CODE WEBSITE.

ARCHITECT BLDG CODES

NTS

GENERAL NOTES

* THIS EXISTING BUILDING CONSISTS OF A 6-STORIES + BASEMENT, CONSTRUCTED OF STEEL & CONCRETE. THE TENANT FINISH WORK WILL NOT HAVE ANY AFFECT ON THE EXISTING HYDRAULIC CALCULATIONS FOR THE HOSPITAL.

* TYPE OF CONSTRUCTION IS: I-A, FULLY SPRINKLERED.

1

* BUILDING OCCUPANCY CLASSIFICATION PER THE 2021 IBC IS: I-2.

* EXISTING SPRINKLER SYSTEM IS A WET SYSTEM DESIGNED TO NFPA 13 2013 EDITION. THE NEW PIPING & HEADS HAVE BEEN DESIGNED TO NFPA 13 2019 EDITION.

* ALL FITTINGS ¾" THROUGH 2" TO BE THREADED TYPE FITTINGS.

* ALL FITTINGS 2½" & LARGER TO BE GROOVED TYPE FITTINGS.

* ALL HANGERS TO BE IN ACCORDANCE WITH NFPA 13 2019 EDITION.

* ALL MATERIAL TO MEET NFPA 13 2019 EDITION.

* MAXIMUM SQUARE FOOTAGE PER HEAD IS 225 SQ. FT. FOR LIGHT HAZARD OCCUPANCY.

* SPRINKLERS HEADS TO BE LOCATED IN THE CENTER OF 2X2 CEILING TILE, QUARTER POINT OF 2X4 CEILING TILE, OR ALIGNED WITH LIGHT/CEILING FIXTURES.

* WORK IS TO BEGIN ON THE EXISTING SPRINKLER SYSTEM WITHIN THE SUITE.

* THE AUTHORITY HAVING JURISDICTION IS THE AURORA BUILDING DIVISION/LIFE SAFETY.

* SCOPE OF WORK IS IN ACCORDANCE WITH THE 2015 IFC & NFPA 13 2019 EDITION.

* GROSS TENANT FINISH AREA: APPROX. 6139 SQFT.

* THE CITY OF AURORA BUILDING DIVISION DOES NOT GRANT APPROVAL FOR ANY VIOLATIONS OF ADOPTED FIRE CODE. CODE VIOLATIONS UNCOVERED DURING FIELD INSPECTIONS MUST BE CORRECTED.

* OBSTRUCTIONS WHETHER CONTINUOUS OR NON-CONTINUOUS THAT AFFECT SPRINKLER WATER FLOW OR DISCHARGE ABILITIES, THAT ARE DISCOVERED IN THE FIELD MUST BE RECTIFIED PRIOR TO FINAL SIGN-OFF BY CITY INSPECTORS.

* OWNER IS RESPONSIBLE FOR PROVIDING HEAT, ABOVE 40°F, ADEQUATE ENOUGH TO PREVENT FREEZING OF THE SPRINKLER PIPING.

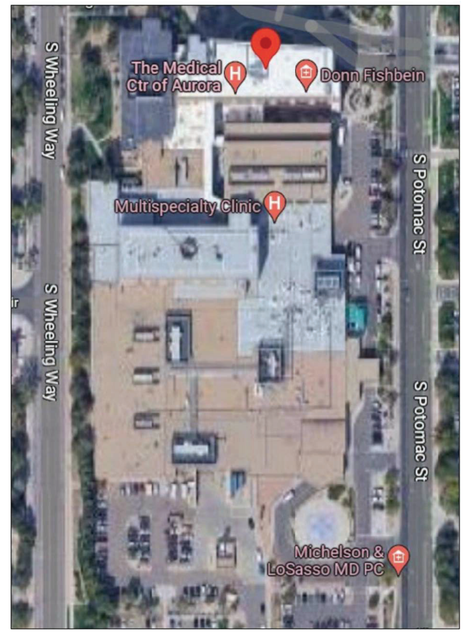
* THE CONTRACTOR (OR DESIGNEE) MUST PROVIDE ALL NECESSARY TESTING EQUIPMENT AND PERFORM ALL TESTING REQUIRED BY THE LIFE SAFETY INSPECTOR.

* IMPORTANT: IN THE EVENT THAT A CONCEALED SPACE IS NOT SHOWN ON THE PLAN SUBMITTAL AND IS DISCOVERED IN THE FIELD, THE INSTALLING CONTRACTOR MUST COMPLY WITH NFPA 13 2019 EDITION SECTION 9.3.18.

* THE FIRE DEPARTMENT CONNECTION MUST BE LOCATED NOT LESS THAN 18 IN. AND NOT MORE THAN 4 FT ABOVE THE LEVEL OF THE ADJACENT GRADE OR ACCESS LEVEL. NFPA 13 2019 EDITION SECTION A.16.12.

* FIELD INSPECTION CONSULTATION IS AVAILABLE UPON REQUEST. CALL 303-739-7420 TO REQUEST CONSULTATION.

* EACH FLOOR IS REQUIRED TO BE SEPARATELY ZONED.



VICINITY MAP

NTS

Matthew E Hall
Digitally signed by Matthew E Hall
DN: C=US, EmailAddress=mp@outlook.com, O=Victory Fire Protection, OU=Design, CN=Matthew E Hall
Date: 2023.07.10 13:17:27-06'00'

NICET LEVEL III
ENGINEERING TECHNICIAN
FIRE PROTECTION ENGINEERING TECHNOLOGY
CERTIFICATION NUMBER 102775
10 July 23
MATTHEW E. HALL
Exp: 1 May 2025

TOTAL SPRINKLERS ON THIS SHEET: 35

SPRINKLER LEGEND

SYM	COUNT	MAKE	TYPE	NAME	SIN	COLOR	SIZE	NPT	TEMP	K Fact	NOTES & ESCUTCHEON
EXIST	39	Tyco	CondPen	RFI	TY3531	Brass	1/2	1/2	155°	5.6	White Cover Plate
NEW	12	Tyco	CondPen	RFI	TY3531	Brass	1/2	1/2	155°	5.6	White Cover Plate
EXIST		Tyco	CondPen	RFI	TY3531	Brass	1/2	1/2	155°	5.6	EXISTING SPRINKLER HEAD

REVISIONS

NO.	DESCRIPTION
1	Changes per Pre-plan Review 7 July 23
2	
3	
4	
5	
6	

VICTORY FIRE PROTECTION
4880 Van Gordon St. Ste. 101
Wheat Ridge, CO 80033
(720) 688-0740

3rd FLOOR ICU
@ MEDICAL CENTER of AURORA
1501 S. Potomac St.
Aurora, CO. 80012

CO STATE REGISTRATION # 23-S-04474

SCALE: AS NOTED
DRAWN BY: MH
DATE: 6 July 23
CONTRACT #: 000
CONTRACT NAME: TMCA-ICU
FLOOR / AREA: Floor

SHEET NUMBER
FP-1
1 OF 1

3rd FLOOR-ICU

@ MEDICAL CENTER of AURORA

1501 S. Potomac St.
Aurora, CO. 80012

PRODUCT DATA:

- **SPRINKLER HEADS**
- **PIPE**
- **FITTINGS (THREADED)**
- **HANGERS**



City of Aurora Building Division
Counter Permit intake by: RET
Date: Jul 18, 2023
RSN: 1729852
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2021 INTERNATIONAL CODES & 2020 NEC Scope of permit to be field verified.

EXISTING/NEW

RSN: 1729852
Permit # 2023-2360511-CT
Sheet 3 of 17

Technical Services

800-381-9312
+1-401-781-8220
www.tyco-fire.com

Series RFII — 5.6 K-factor "Royal Flush II" Concealed Pendent Sprinklers Quick & Standard Response, Standard Coverage

General Description

The TYCO Series RFII Quick Response (3-mm bulb) and Standard Response (5-mm bulb), 5.6 K-Factor, "Royal Flush II" Concealed Pendent Sprinklers are decorative sprinklers featuring a flat cover plate designed to conceal the sprinkler. These sprinklers are optimal for architecturally sensitive areas such as hotel lobbies, office buildings, churches, and restaurants.

Each sprinkler includes a Cover Plate/Retainer Assembly and a Sprinkler/Support Cup Assembly. The separable, two-piece assembly design provides the following benefits:

- Allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling.
- Permits the removal of suspended ceiling panels for access to building service equipment without having to first shut down the fire protection system and remove sprinklers.
- Provides for 1/2 inch (12,7 mm) of vertical adjustment to allow a measure of flexibility in determining the length of fixed piping to cut for the sprinkler drops.

The Series RFII Sprinklers are shipped with a Disposable Protective Cap. The Protective Cap is temporarily removed during installation and replaced to help protect the sprinkler during ceiling installation or finish. The tip of the Protective Cap can be used to mark the center of the ceiling hole into plaster board or ceiling tiles by gently pushing the ceiling product against the Protective Cap. When ceiling installation is complete, the Protective Cap is removed and the Cover Plate/Retainer Assembly is installed.

As an option, the Series RFII Standard Response (5-mm bulb) "Royal Flush II" Concealed Pendent Sprinklers can be fitted with a silicone Air and Dust Seal. (Refer to Figure 5.) The Air and Dust Seal is intended for sensitive areas where it is desirable to prevent air and dust from the area above the ceiling to pass through the cover plate.

NOTICE

The Series RFII Concealed Pendent Sprinklers described herein must be installed and maintained in compliance with this document and with the applicable standards of the National Fire Protection Association, in addition to the standards of any authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.

IMPORTANT

Always refer to Technical Data Sheet TFP700 for the "INSTALLER WARNING" that provides cautions with respect to handling and installation of sprinkler systems and components. Improper handling and installation can permanently damage a sprinkler system or its components and cause the sprinkler to fail to operate in a fire situation or cause it to operate prematurely.



Sprinkler Identification Number (SIN)

TY3531 — 3 mm bulb
TY3551 — 5 mm bulb

Technical Data

Sprinkler Approvals
Approvals apply only to the service conditions indicated in the Design Criteria section.

- TY3531 (3-mm Bulb) is UL Listed, C-UL Listed, VdS Approved (Certificate No. G4090007), and NYC Approved (MEA 353-01-E) as Quick Response.
- TY3531 (3-mm Bulb) is FM and LPCB Approved (Ref. No. 094a/10) Approved as Standard Response. Factory Mutual and LPCB do not approve any concealed sprinklers for quick response.
- TY3551 (5-mm Bulb) is UL Listed, C-UL Listed, FM Approved, LPCB Approved (Ref. No. 094a/9), and NYC Approved (MEA 353-01-E) as Standard Response.

Approvals for Air and Dust Seal
UL and C-UL Listed for use with the RFII Standard Response Concealed Sprinkler (TY3551).

Maximum Working Pressure
Maximum 250 psi (17,3 bar) by UL, C-UL, and NYC

Maximum 175 psi (12,1 bar) by FM, VdS, and LPCB

Temperature Rating
155°F (68°C) Sprinkler with
139°F (59°C) Plate

200°F (93°C) Sprinkler with
165°F (74°C) Plate

Discharge Coefficient
K= 5.6 GPM/psi$^{1/2}$ (80,6 LPM/bar$^{1/2}$)

Adjustment
1/2 inch (12,7 mm)

Finishes
See the Ordering Procedure section.

Physical Characteristics

Frame	Bronze
Support Cup	Chrome Plated Steel
Guide Pins	Stainless Steel
Deflector	Bronze
Compression Screw	Brass
Bulb	Glass
Cap	Bronze or Copper
Sealing Assembly	Beryllium Nickel w/ TEFLON
Cover Plate	Brass
Retainer	Brass
Ejection Spring	Stainless Steel

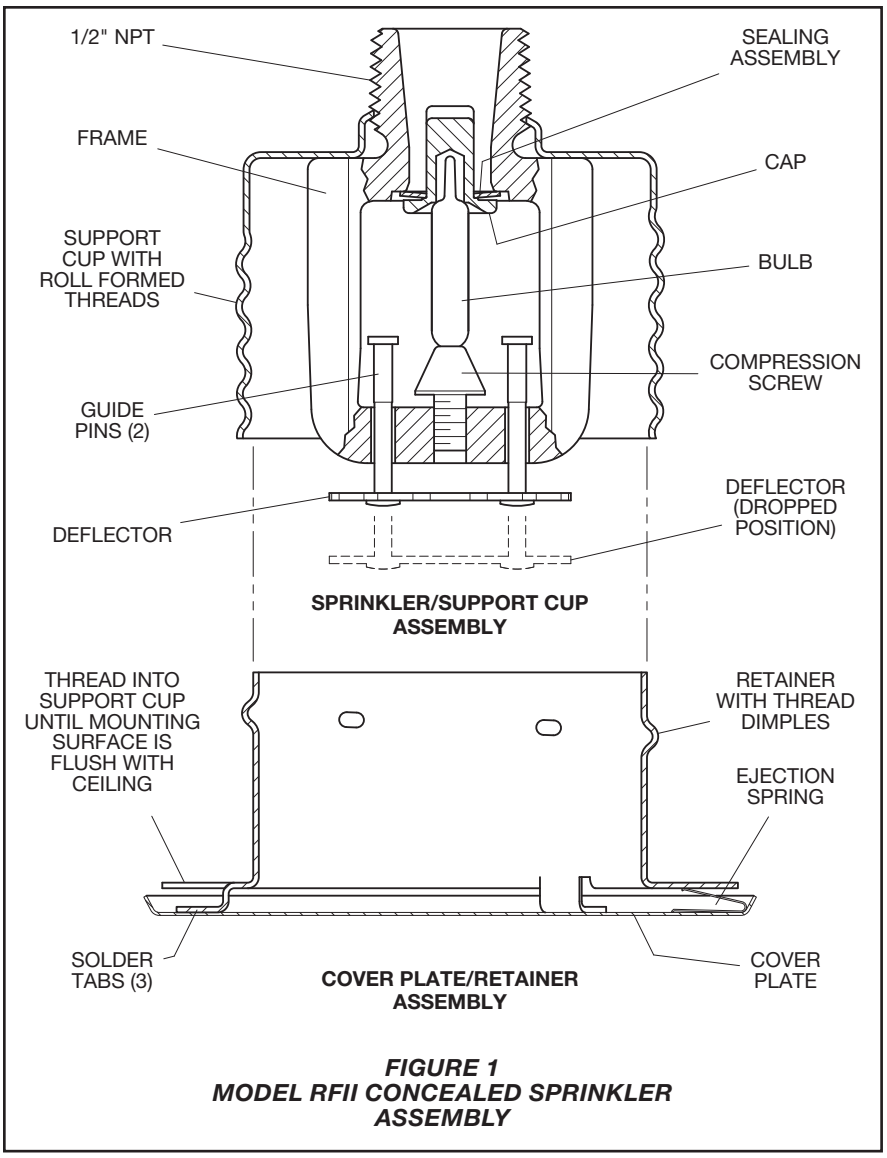
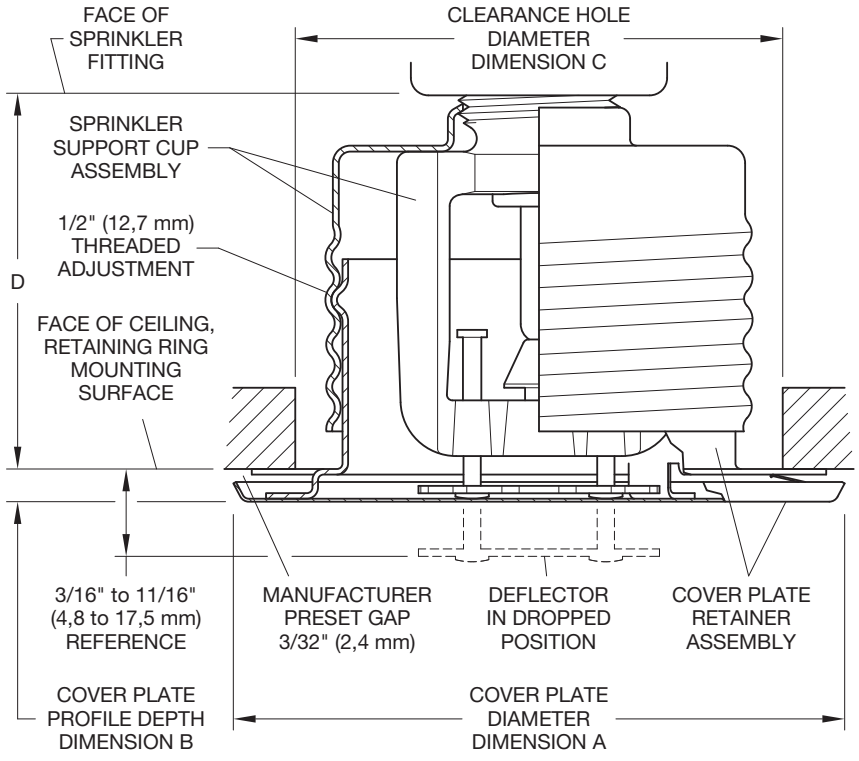


FIGURE 1
MODEL RFII CONCEALED SPRINKLER ASSEMBLY



A: 3-1/4 inches (82,6 mm)

B: 3/16 inches (4,8 mm)

C: 2-3/8 to 2-5/8 inches (60,3 to 66,7 mm)

D: 1-3/4 to 2-1/4 inches (44,5 to 57,2 mm)

FIGURE 2
SERIES CONCEALED SPRINKLER INSTALLATION DIMENSIONS

Design Criteria

The TYCO Series RFII Concealed Pendent Sprinklers are intended for fire protection systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency; for example, UL Listing is based on NFPA 13 and VdS Approval is based on the CEA 4001.

For more information on LPCB and VdS Approvals, contact Tyco Fire Suppression & Building Products at the following office:

Enschede, Netherlands
Telephone: 31-53-428-4444
Fax: 31-53-428-3377

The Series RFII Concealed Pendent Sprinklers are only listed and approved with the Series RFII Concealed Cover Plates having a factory applied finish.

NOTICE

Do not use the Series RFII in applications where the air pressure above the ceiling is greater than that below. Down drafts through the Sprinkler/Support Cup Assembly can delay sprinkler operation in a fire situation.

Operation

When exposed to heat from a fire, the Cover Plate, normally soldered to the Retainer at three points, falls away to expose the Sprinkler/Support Cup Assembly.

The Deflector—supported by the Guide Pins—then drops down to its operational position.

The glass Bulb contains a fluid that expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass Bulb, activating the sprinkler and allowing water to flow.

RSN: 1729852
Permit # 2023-2360511-CT
Sheet 6 of 17

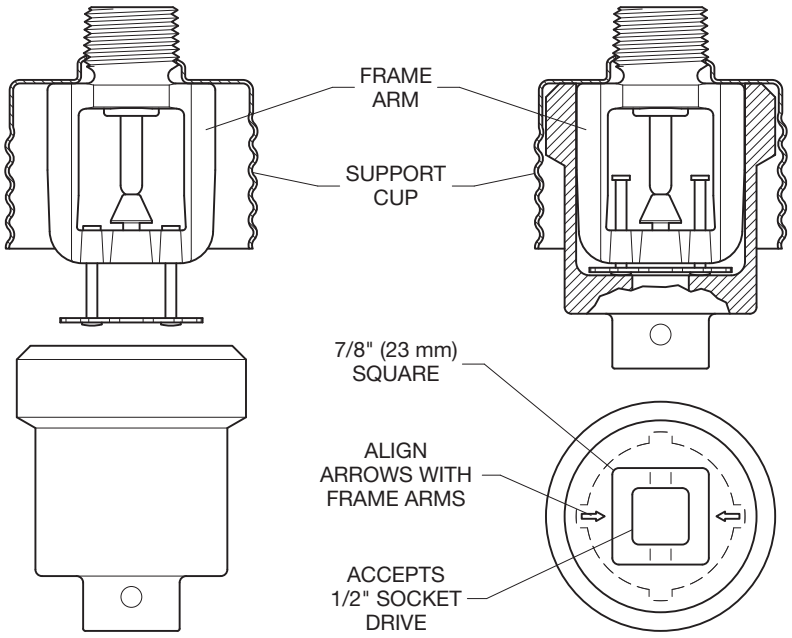


FIGURE 3
RFII SPRINKLER WRENCH

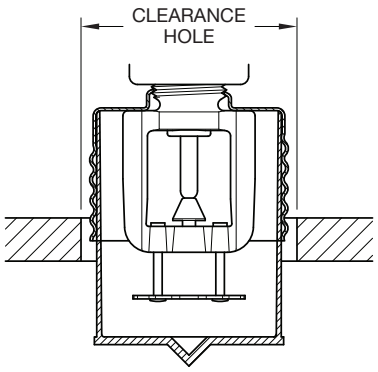


FIGURE 4
DISPOSABLE PROTECTIVE CAP

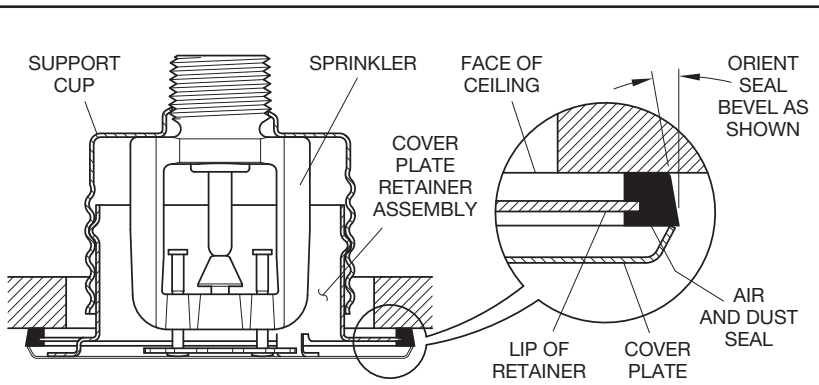


FIGURE 5
OPTIONAL AIR AND DUST SEAL FOR SERIES RFII (TY3551)

Installation

The TYCO Series RFII must be installed in accordance with the following instructions.

NOTICE

Do not install any bulb-type sprinkler if the bulb is cracked or there is a loss of liquid from the bulb. With the sprinkler held horizontally, a small air bubble should be present. The diameter of the air bubble is approximately 1/16 inch (1,6 mm) for the 155°F/68°C and 3/32 inch (2,4 mm) for the 200°F/93°C temperature ratings.

Obtain a 1/2 inch NPT sprinkler joint by applying a minimum to maximum torque of 7 to 14 ft.-lbs. (9,5 to 19,0 Nm). Higher levels of torque can distort the sprinkler Inlet with consequent leakage or impairment of the sprinkler.

Do not attempt to compensate for insufficient adjustment in the Sprinkler by under- or over-tightening the Sprinkler/Support Cup Assembly. Re-adjust the position of the sprinkler fitting to suit.

Step 1. Install the sprinkler only in the pendent position with the center-line of the sprinkler perpendicular to the mounting surface.

Step 2. Remove the Protective Cap.

Step 3. With pipe thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

Step 4. Wrench-tighten the sprinkler using only the RFII Sprinkler Wrench. (Refer to Figure 3.) Apply the RFII Sprinkler Wrench to the Sprinkler as shown in Figure 3.

Step 5. Replace the Protective Cap by pushing it upwards until it bottoms out against the Support Cup. (Refer to Figure 4.) The Protective Cap helps prevent damage to the Deflector and Arms during ceiling installation and/or finish. You can also use the Protective Cap to locate the center of the clearance hole by gently pushing the ceiling material up against the center point of the Protective Cap.

NOTICE

As long as the Protective Cap remains in place, the system is considered "Out of Service".

Step 6. After the ceiling has been completed with the 2-1/2 inch (63,5 mm) diameter clearance hole and in preparation for installing the Cover Plate/Retainer Assembly, remove and discard the Protective Cap. Verify that the Deflector moves up and down freely.

If the Sprinkler is damaged and the Deflector does not move up and down freely, replace the entire Sprinkler. Do not attempt to modify or repair a damaged sprinkler.

Step 7. When installing an Air and Dust Seal, refer to Figure 5; otherwise, proceed to Step 8. To attach the Air and Dust Seal, verify the angle of the outside edge of the seal is oriented according to Figure 5. Start the edge of the Retainer in the grooved slot of the Air and Dust Seal and continue around the retainer until the entire Air and Dust Seal is engaged.

Step 8. Screw on the Cover Plate/Retainer Assembly until the Retainer (shown in Figure 2) or the Air and Dust Seal (shown in Figure 5) contacts the ceiling. Do not continue to screw on the Cover Plate/Retainer Assembly so that it lifts a ceiling panel out of its normal position. If you cannot engage the Cover Plate/Retainer Assembly with the Support Cup or you cannot engage the Cover Plate/Retainer Assembly sufficiently to contact the ceiling, you must reposition the Sprinkler Fitting.

Care and Maintenance

The TYCO Series RFII must be maintained and serviced in accordance with the following instructions.

NOTICE

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection system from the proper authorities and notify all personnel who may be affected by this action.

Absence of the Cover Plate/Retainer Assembly can delay sprinkler operation in a fire situation.

When properly installed, there is a nominal 3/32 inch (2,4 mm) air gap between the lip of the Cover Plate and the ceiling, as shown in Figure 2.

This air gap is necessary for proper operation of the sprinkler. If the ceiling requires repainting after sprinkler installation, ensure that the new paint does not seal off any of the air gap.

Do not pull the Cover Plate relative to the Enclosure. Separation may result.

Replace sprinklers that:

- are leaking or exhibiting visible signs of corrosion.
- were modified or over-heated.

Never paint, plate, coat, or otherwise alter automatic sprinklers after they leave the factory. Never repaint factory-painted Cover Plates. If necessary, replace them with factory-painted units. Non-factory applied paint can adversely delay or prevent sprinkler operation in the event of a fire.

Exercise care to avoid damage to sprinklers before, during, and after installation. Replace sprinklers damaged by dropping, striking, wrench twisting, wrench slipping, or the like. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. (Refer to the Installation section.)

If you must remove a sprinkler, do not reinstall it or a replacement without reinstalling the Cover Plate/Retainer Assembly. If a Cover Plate/Retainer Assembly becomes dislodged during service, replace it immediately.

Responsibility lies with sprinkler owners for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (for example, NFPA 25), in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or sprinkler manufacturer regarding any questions.

Automatic sprinkler systems should be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national code.

Limited Warranty

Products manufactured by Tyco Fire Protection Products (TFPP) are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by TFPP. No warranty is given for products or components manufactured by companies not affiliated by ownership with TFPP or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association, and/or the standards of any other Authorities Having Jurisdiction. Materials found by TFPP to be defective shall be either repaired or replaced, at TFPP's sole option. TFPP neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. TFPP shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

In no event shall TFPP be liable, in contract, tort, strict liability or under any other legal theory, for incidental, indirect, special or consequential damages, including but not limited to labor charges, regardless of whether TFPP was informed about the possibility of such damages, and in no event shall TFPP's liability exceed an amount equal to the sales price.

The foregoing warranty is made in lieu of any and all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose.

This limited warranty sets forth the exclusive remedy for claims based on failure of or defect in products, materials or components, whether the claim is made in contract, tort, strict liability or any other legal theory.

This warranty will apply to the full extent permitted by law. The invalidity, in whole or part, of any portion of this warranty will not affect the remainder.

Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name.

Sprinkler/Support Cup Assembly
Specify: (SIN), (temperature rating from below) Series RFII Concealed Pendent Sprinkler, P/N (specify).

	155°F/68°C	200°F/93°C
TY3531	51-792-1-155	51-792-1-200
TY3551	51-790-1-155	51-790-1-200

Separately Ordered Cover Plate/ Retainer Assembly:
Specify: (temperature rating from below) Series RFII Concealed Cover Plate with (finish), P/N (specify).

	139°F/59°C(a)	165°F/74°C(b)
Brass	56-792-1-135	56-792-1-165
Chrome	56-792-9-135	56-792-9-165
Brushed Chrome	56-792-8-135	56-792-8-165
Signal White (RAL 9003)	56-792-4-135	56-792-4-165
Grey White (RAL 9002)	56-792-0-135	56-792-0-165
Pure White (c) (RAL 9010)	56-792-3-135	56-792-3-165
Custom	56-792-X-135	56-792-X-165

(a) For use with 155°F/68°C sprinklers.
(b) For use with 200°F/93°C sprinklers.
(c) Eastern Hemisphere sales only.

Sprinkler Wrench
Specify: RFII Sprinkler Wrench, P/N 56-000-1-075.

Air and Dust Seal
Specify: Air and Dust Seal, P/N 56-908-1-001.

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TEFLON is trademark of The DuPont Corporation.

RSN: 1729852
Permit # 2023-2360511-CT
Sheet 9 of 17

Schedule 10 / Schedule 40 M-COAT

Fully Listed and FM Approved Sprinkler Pipe

When you specify Allied Schedule-10/Schedule-40 – M-COAT sprinkler pipe you get a UL listed and FM approved product. Although these products do not require separate approvals, Schedule-10/Schedule-40 – M-COAT gives you the extra quality assurance you demand. Our Sch-10 (1¼"– 8") pipe and Sch-40 (1"– 2½") pipe have passed the same thorough lab testing as our other listed pipe products, and receive periodic mill inspections from both UL and FM agents to ensure consistent quality.

Galvanized Pipe

Schedule-10/Schedule-40 – M-COAT product can be "hot-dip" galvanized to meet FM requirements for dry systems in accordance with the zinc coating specifications of ASTM A-123.

Superior Coating

Our advanced formula mill coating offers a clean, durable surface. It is also paint-ready for custom color applications without special preparation. The internal surface of all black Allied Tube & Conduit fire sprinkler pipe products up to 4.500" in diameter are coated with M-COAT, an advanced MIC coating that is FM approved for use in hybrid sprinkle systems.

American made

Able to meet "Buy American" requirement and is available through distributors in the USA, Canada, Mexico and Latin America.

Specifications & Approvals

Schedule-10/Schedule-40 – M-COAT pipe are in compliance with the following: ASTM A-135, Type E Grade A, and NFPA 13. All pipe products have a rated working pressure of 300 psi maximum and also meet the stringent requirements for the following applications and tests:

- Welded Outlets
- Hydrostatic Pressure

Sch-40 ASTM A135/A795 M-COAT Specifications

NPS In;mm	Nominal O.D. In; mm	Nominal I.D. In; mm	Nominal Wall In; mm	Wt. Lbs/Ft; kg/m	Wt. (H20 Filled) Lbs/Ft; kg/m	CRR
1"	1.315	1.049	0.133	1.680	2.05	1
25	33.4	26.6	3.38	2.5	3.05	–
1¼"	1.660	1.380	0.140	2.270	2.93	1
32	42.1	35.1	3.56	3.39	4.36	–
1½"	1.900	1.610	0.145	2.720	3.61	1
40	48.3	40.9	3.68	4.0	5.37	–
2"	2.375	2.067	0.154	3.656	5.13	1
50	60.3	52.5	3.91	5.4	7.63	–
2½"	2.875	2.469	0.203	5.80	7.86	1
65	73	62.7	5.16	8.6	11.73	–

Sch-10 ASTM A135/A795 M-COAT Specifications

NPS In; mm	Nominal O.D. In; mm	Nominal I.D. In; mm	Nominal Wall In; mm	Wt. Lbs/Ft; kg/m	Wt. (H20 Filled) Lbs/Ft; kg/m	CRR –
1¼"	1.660	1.442	0.109	1.810	2.525	7.0955
32	42.2	36.6	2.77	2.7	3.75	–
1½"	1.900	1.682	0.109	2.09	3.04	5.6570
40	48.3	42.7	2.77	3.1	4.52	–
2"	2.375	2.157	0.109	2.640	4.22	4.5827
50	60.3	54.8	2.77	3.9	6.28	–
2½"	2.875	2.635	0.120	3.530	5.89	3.5196
65	73	66.9	3.05	5.26	8.77	–
3"	3.500	3.260	0.120	4.34	7.94	2.5550
75	88.9	82.8	3.05	6.4	11.82	–
4"	4.500	4.260	0.120	5.62	11.78	1.6020
100	114.3	108.20	3.05	8.3	17.53	–
5"	5.563	5.295	0.134	7.78	17.33	1.4874
125	141.3	134.5	3.40	11.58	25.80	–
6"	6.625	6.357	0.134	9.3	23.03	1.0251
150	168.3	161.5	3.40	13.8	34.27	–
8"	8.625	8.249	0.188	16.96	40.15	1.8365
200	219	209.50	4.78	25.2	59.75	–

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Ductile Iron Threaded Fittings

Specifications

- SCI Branded Ductile Iron Threaded Fittings are UL Listed and FM Approved at 500 psi
- Rated to 300 WSP
- Ductile Iron Castings conform to ASTM A536
- Fitting dimensions conform to ASME B16.3
- Bushings and Plugs conform to ASME B16.14
- Fittings are 100% air tested
- NPT threads on all fittings conform to ASME B1.20.1
- Independent lab verification that fittings meet applicable chemical & physical properties
- Manufacturing facilities are ISO 9001:2008 and ISO 14001

c UL us LISTED

FM APPROVED

Temperature Degrees F	Working Pressure, Nonshock psiG 300# Class Threaded Fittings
-20 to 100	500
150	500
200	480
250	460
300	440
350	420
400	400
450	380
500	360
550	340
600	320
650	300

RSN: 1729852
Permit # 2023-2360511-CT
Sheet 11 of 17

Fig. 35E 3 – 90° Elbow



Size IN	Part Number	List Price	Packing	Weight LB
1/2	35E 3004	$8.88	100/200	0.2317
3/4	35E 3006	$9.30	70/140	0.3681
1	35E 3010	$10.69	40/80	0.5361
1-1/4	35E 3012	$16.85	25/50	0.8516
1-1/2	35E 3014	$24.35	18/36	1.1312
2	35E 3020	$36.83	10/20	1.8344
2-1/2	35E 3024	$80.65	4/8	3.3755

Fig. 35RE3 – 90° Reducing Elbow



Size IN	Part Number	List Price	Packing	Weight LB
3/4 x 1/2	35RE3006004	$17.45	80/160	0.3071
1 x 1/2	35RE3010004	$13.23	70/140	0.4242
1 x 3/4	35RE3010006	$14.20	50/100	0.5038
1-1/4 x 1/2	35RE3012004	$23.60	35/70	0.5509
1-1/4 x 3/4	35RE3012006	$25.06	35/70	0.6455
1-1/4 x 1	35RE3012010	$20.95	30/60	0.7680
1-1/2 x 1/2	35RE3014004	$40.24	30/60	0.6351
1-1/2 x 3/4	35RE3014006	$32.46	25/50	0.7726
1-1/2 x 1	35RE3014010	$29.16	20/40	0.8991
1-1/2 x 1-1/4	35RE3014012	$29.16	18/36	0.9962
2 x 1/2	35RE3020004	$68.26	18/36	0.9680
2 x 3/4	35RE3020006	$48.92	18/36	1.0782
2 x 1	35RE3020010	$47.57	16/32	1.2214
2 x 1-1/4	35RE3020012	$63.72	12/24	1.3961
2 x 1-1/2	35RE3020014	$47.57	10/20	1.5233
2-1/2 x 1-1/2	35RE3024014	$125.03	6/12	2.2376
2-1/2 x 2	35RE3024020	$110.79	6/12	2.6699

Fig. 35F 3 – 45° Elbow



Size IN	Part Number	List Price	Packing	Weight LB
1/2	35F 3004	$14.02	150/300	0.2009
3/4	35F 3006	$14.16	80/160	0.3287
1	35F 3010	$16.63	40/80	0.5443
1-1/4	35F 3012	$22.09	25/50	0.7874
1-1/2	35F 3014	$36.83	20/40	1.0303
2	35F 3020	$42.55	10/20	1.6687
2-1/2	35F 3024	$108.29	4/8	2.9223

Fig. 35T 3 – Tee



Size IN	Part Number	List Price	Packing	Weight LB
1/2	35T 3004	$14.28	80/160	0.3032
3/4	35T 3006	$16.68	30/60	0.5161
1	35T 3010	$15.23	25/50	0.7522
1-1/4	35T 3012	$28.24	10/20	1.1891
1-1/2	35T 3014	$35.75	10/20	1.5682
2	35T 3020	$50.49	6/12	2.4411
2-1/2	35T 3024	$127.49	4/8	4.2968

Fig. 35BT3 – Bull Head Tee



Size IN	Part Number	List Price	Packing	Weight LB
3/4 x 1	35BT3006010	$27.32	30/60	0.6283
1 x 1-1/4	35BT3010012	$27.97	20/40	0.9966
1 x 1-1/2	35BT3010014	$49.73	15/30	1.1229
1-1/4 x 1 x 1-1/2	35BT3012010014	$35.96	15/30	1.2729
1-1/4 x 1-1/2	35BT3012014	$49.63	15/30	1.3847
1-1/4 x 2	35BT3012020	$75.06	10/20	1.6500
1-1/2 x 1-1/4 x 2	35BT3014012020	$75.06	10/20	1.8445
1-1/2 x 2	35BT3014020	$73.49	8/16	1.9329
2 x 2-1/2	35BT3020024	$134.02	4/8	3.2545

Fig. 35RT3 – Reducing Tee



Size IN	Part Number	List Price	Packing	Weight LB
3/4 x 1/2	35RT3006004	$23.51	60/120	0.4303
1 x 1/2	35RT3010004	$17.23	30/60	0.6514
1 x 1/2 x 1	35RT3010004010	$18.41	30/60	0.6912
1 x 3/4	35RT3010006	$20.74	25/50	0.7262
1 x 3/4 x 3/4	35RT3010006006	$27.97	35/70	0.6206
1 x 3/4 x 1	35RT3010006010	$21.87	25/50	0.7487
1-1/4 x 1/2	35RT3012004	$26.84	20/40	0.8837
1-1/4 x 1/2 x 1-1/4	35RT3012004012	$41.39	25/50	0.9871
1-1/4 x 3/4	35RT3012006	$30.08	15/30	0.9689
1-1/4 x 3/4 x 1-1/4	35RT3012006012	$38.59	20/40	1.0019
1-1/4 x 1	35RT3012010	$27.54	15/30	1.0703
1-1/4 x 1 x 1/2	35RT3012010004	$27.97	25/50	0.7744
1-1/4 x 1 x 3/4	35RT3012010006	$31.64	20/40	0.8589
1-1/4 x 1 x 1	35RT3012010010	$27.97	20/40	0.9869
1-1/4 x 1 x 1-1/4	35RT3012010012	$27.97	15/30	1.1295
1-1/2 x 1/2	35RT3014004	$35.05	16/32	1.0723
1-1/2 x 1/2 x 1-1/4	35RT3014004012	$61.54	18/36	1.1462
1-1/2 x 1/2 x 1-1/2	35RT3014004014	$54.14	12/24	1.2731
1-1/2 x 3/4	35RT3014006	$38.93	16/32	1.1772
1-1/2 x 3/4 x 1-1/4	35RT3014006012	$61.54	20/40	1.2162
1-1/2 x 3/4 x 1-1/2	35RT3014006014	$54.14	18/36	1.2852
1-1/2 x 1	35RT3014010	$35.05	12/24	1.3270
1-1/2 x 1 x 1/2	35RT3014010004	$56.21	20/40	0.9220
1-1/2 x 1 x 3/4	35RT3014010006	$52.60	16/32	0.9860
1-1/2 x 1 x 1	35RT3014010010	$49.63	16/32	1.1220
1-1/2 x 1 x 1-1/4	35RT3014010012	$62.59	12/24	1.2837
1-1/2 x 1 x 1-1/2	35RT3014010014	$35.96	12/24	1.4247
1-1/2 x 1-1/4	35RT3014012	$50.06	12/24	1.4414
1-1/2 x 1-1/4 x 1/2	35RT3014012004	$38.93	16/32	1.0039
1-1/2 x 1-1/4 x 3/4	35RT3014012006	$38.93	16/32	1.0861
1-1/2 x 1-1/4 x 1	35RT3014012010	$35.75	16/32	1.2210
1-1/2 x 1-1/4 x 1-1/4	35RT3014012012	$49.66	14/28	1.3798
1-1/2 x 1-1/4 x 1-1/2	35RT3014012014	$49.66	14/28	1.5642
2 x 1/2	35RT3020004	$50.76	10/20	1.5580
2 x 3/4	35RT3020006	$50.76	10/20	1.6570
2 x 1	35RT3020010	$50.76	8/16	1.8273
2 x 1 x 2	35RT3020010020	$50.76	8/16	2.0788
2 x 1-1/4	35RT3020012	$55.08	8/16	1.9969
2 x 1-1/4 x 2	35RT3020012020	$55.08	8/16	2.1542
2 x 1-1/2	35RT3020014	$58.27	8/16	2.1450
2 x 1-1/2 x 1/2	35RT3020014004	$57.56	10/20	1.3941
2 x 1-1/2 x 3/4	35RT3020014006	$57.56	10/20	1.4784
2 x 1-1/2 x 1	35RT3020014010	$50.98	8/16	1.6139
2 x 1-1/2 x 1-1/4	35RT3020014012	$77.60	8/16	1.7340
2 x 1-1/2 x 1-1/2	35RT3020014014	$75.06	8/16	1.9415
2 x 1-1/2 x 2	35RT3020014020	$57.56	8/16	2.2684

RSN: 1729852
Permit # 2023-2360511-CT
Sheet 12 of 17

Fig. 35CP3 – Straight Coupling with Ribs



Size IN	Part Number	List Price	Packing	Weight LB
1/2	35CP3004	$5.72	200/400	0.1459
3/4	35CP3006	$7.52	100/200	0.2453
1	35CP3010	$9.34	60/120	0.3520
1-1/4	35CP3012	$13.93	35/70	0.5542
1-1/2	35CP3014	$19.33	25/50	0.7674
2	35CP3020	$28.89	15/30	1.1686
2-1/2	35CP3024	$61.38	9/18	2.1487

Fig. 35RC3 – Hex Reducing Coupling



Size IN	Part Number	List Price	Packing	Weight LB
1 x 1/2	35RC3010004	$9.56	80/160	0.3584
1 x 3/4	35RC3010006	$12.74	60/120	0.4494
1-1/4 x 3/4	35RC3012006	$25.53	40/80	0.6633
2 x 1 (not hex)	35RC3020010	$68.86	20/40	1.0723

Fig. 35HB3 – Hex Bushing



Size IN	Part Number	List Price	Packing	Weight LB
1 x 1/2	35HB3010004	$10.26	180/360	0.2075
1 x 3/4	35HB3010006	$10.26	180/360	0.1712
1-1/4 x 1	35HB3012010	$11.61	90/180	0.3001
1-1/2 x 1	35HB3014010	$13.23	75/150	0.4891
1-1/2 x 1-1/4	35HB3014012	$13.23	75/150	0.3027
2 x 1	35HB3020010	$18.52	40/80	0.6149
2 x 1-1/4	35HB3020012	$18.52	40/80	0.7300
2 x 1-1/2	35HB3020014	$19.17	40/80	0.6154

Fig. 35SP3 – Square Head Plug



Size IN	Part Number	List Price	Packing	Weight LB
1/2	35SP3004	$3.26	600/1200	0.0809
3/4	35SP3006	$4.27	360/720	0.1234
1	35SP3010	$5.37	200/400	0.1914
1-1/4	35SP3012	$7.28	100/200	0.3137
1-1/2	35SP3014	$8.86	80/160	0.4151
2	35SP3020	$12.98	45/90	0.6428

Fig. 35U 3 – Union with Brass Seat



Size IN	Part Number	List Price	Packing	Weight LB
1	35U 3010	$50.84	20/40	0.7498
1-1/4	35U 3012	$70.48	15/30	1.1465
1-1/2	35U 3014	$93.04	10/20	1.6031
2	35U 3020	$117.33	6/12	2.1732

Fig. 35X 3 – Cross



Size IN	Part Number	List Price	Packing	Weight LB
1	35X 3010	$45.04	20/40	0.9845
1-1/4	35X 3012	$63.45	12/24	1.4645
1-1/2	35X 3014	$82.13	8/16	1.9309
2	35X 3020	$116.48	6/12	2.9225

Fig. 35RX3 – Reducing Cross



Size IN	Part Number	List Price	Packing	Weight LB
1-1/4 x 1	35RX3012010	$56.43	15/30	1.2586
1-1/2 x 1	35RX3014010	$82.13	12/24	1.4751
2 x 1	35RX3020010	$118.31	8/16	1.8988

Fig. 35C 3 – Cap



Size IN	Part Number	List Price	Packing	Weight LB
1/2	35C 3004	$6.23	300/600	0.1115
3/4	35C 3006	$7.41	200/400	0.1769
1	35C 3010	$11.61	110/220	0.3131
1-1/4	35C 3012	$15.71	70/140	0.4486
1-1/2	35C 3014	$20.95	50/100	0.5427
2	35C 3020	$28.24	25/50	0.8771
2-1/2	35C 3024	$78.39	18/36	1.5453

Fig. 35BC3 – Beam Clamp



Size IN	Part Number	List Price	Packing	Weight LB
3/8	35BC3003	$7.41	100/200	0.2941
1/2	35BC3004	$10.94	80/160	0.5012

RSN: 1729852
Permit # 2023-2360 CT
Sheet 13 of 17

Fig. 200 - "Trimline" Adjustable Band Hanger

c UL US LISTED
FM APPROVED

Size Range — 1/2" thru 8" pipe

Material — Carbon Steel, Mil. Galvanized to G90 specifications

Function — For fire sprinkler and other general piping purposes. Knurled swivel nut design permits hanger adjustment after installation.

Features —

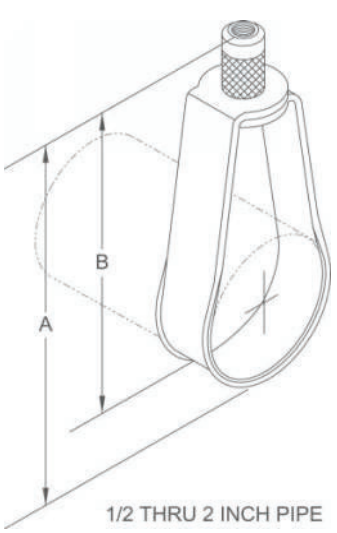
- (1/2" thru 2") Flared edges ease installation for all pipe types and protect CPVC plastic pipe from abrasion. Captured design keeps adjusting nut from separating with hanger. Hanger is easily installed around pipe.
- (2½" thru 8" Spring tension on nut holds it securely in hanger before installation. Adjusting nut is easily removed.

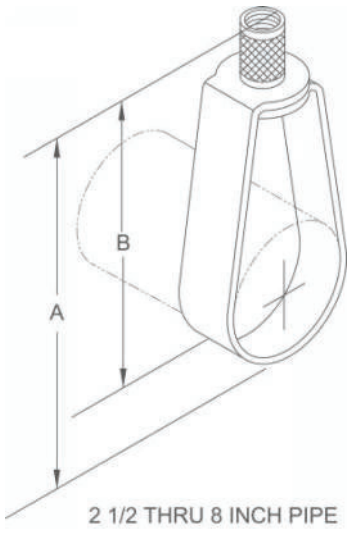
Approvals — Underwriters' Laboratories listed (1/2" thru 8") in the USA **(UL)** and Canada **(cUL)** for steel and CPVC plastic pipe and Factory Mutual Engineering Approved (3/4" thru 8"). Conforms to Federal Specifications WW-H-171E, Type 10 and Manufacturers Standardization Society SP-69, Type 10.

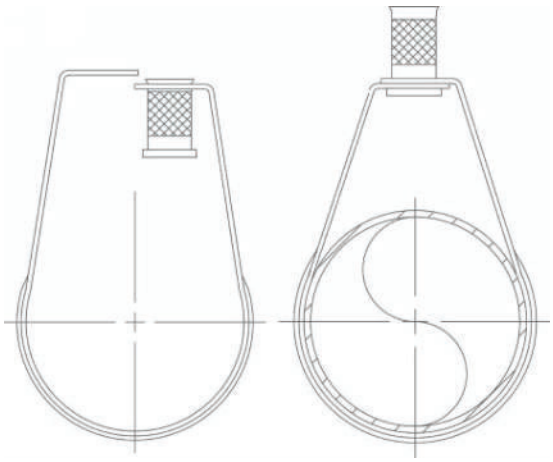
Maximum Temperature — 650°F

Finish — Mil. Galvanized. For Stainless Steel materials, order TOLCO™ Fig. 200WON.

Order By — Figure number and pipe size







Dimensions • Weights

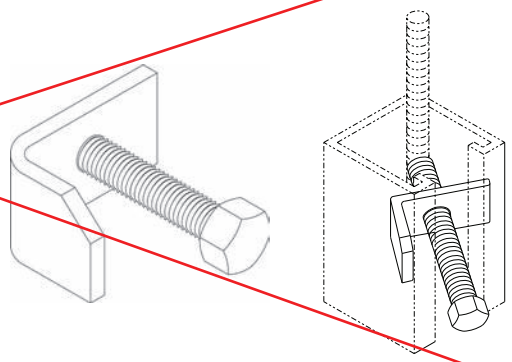
Pipe Size	Rod Size Inch	Rod Size Metric	A	B	Max. Rec. Load Lbs.	Approx. Length
1/2	3/8	8mm or 10mm	3⅛	2⅝	400	11
3/4	3/8	8mm or 10mm	3⅛	2½	400	11
1	3/8	8mm or 10mm	3⅜	2⅝	400	12
1¼	3/8	8mm or 10mm	3¾	2⅞	400	13
1½	3/8	8mm or 10mm	3⅞	2⅞	400	14
2	3/8	8mm or 10mm	4½	3	400	15
2½	3/8	10mm	5⅝	4⅛	600	27
3	3/8	10mm	5⅞	4	600	29
3½	3/8	10mm	7⅜	5¼	600	34
4	3/8	10mm	7⅜	5	1000	35
5	1/2	12mm	9⅛	6¼	1250	66
6	1/2	12mm	10⅛	6¾	1250	73
8	1/2	12mm	13⅛	8¾	1250	136

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RSN: 1729852
Permit # 2023.2360511.CT
Sheet 14 of 17

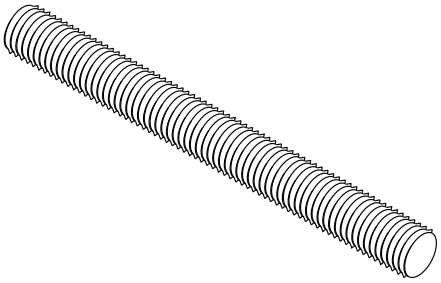
Fig. 98 - Rod Stiffener

Component of State of California OSHPD Approved Seismic Restraints System



Size Range — Secures 3/8" thru 7/8" hanger rod
Material — Carbon Steel
Function — Secures channel to hanger rod for vertical seismic bracing.
Approvals — Included in our Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (**OSHPD**). For additional load, spacing and placement information relating to OSHPD projects, please refer to the TOLCO Seismic Restraint Systems Guidelines
Finish — Electro Galvanized
Note — Available in HDG finish or Stainless Steel materials.
Order By — Figure number

Fig. 99 - All Thread Rod Cut to Length

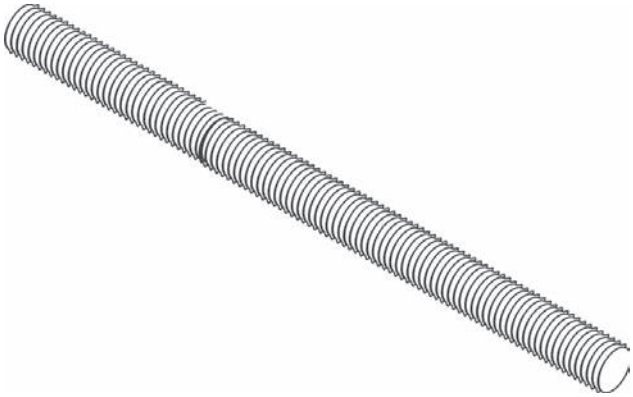


Size Range — Secures 3/8" thru 7/8" rod in 1" increments
Material — Carbon Steel
Maximum Temperature — 750°F
Finish — Plain
Note — Available in Electro-Galvanized and HDG finish or Stainless Steel materials.
Order By — Figure number, rod diameter, rod length and finish

Dimensions

Rod Size	Max. Rec. Load Lbs. For Service Temp 650°F
3/8	730
1/2	1350
5/8	2160
3/4	3230
7/8	4480

Fig. 100 - All Thread Rod Full Lengths



Size Range — Secures 3/8" thru 1½" rod in 10' lengths
Material — Carbon Steel
Maximum Temperature — 750°F
Finish — Plain
Note — Available in Electro-Galvanized and HDG finish or Stainless Steel materials.
Order By — Figure number, rod diameter and finish

Dimensions • Weights

Rod Size	Max Rec. Load Lbs. For Service Temps 650°F	Approx. Wt./100
1/4	240	12
3/8	730	29
1/2	1350	53
5/8	2160	84
3/4	3230	123
7/8	4480	169
1	5900	222
1¼	9500	360
1½	13800	510

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RSN: 1723852
Permit # 2023-2360 5/1/23
Sheet 15 of 17

Fig. 65 and Fig. 66
Reversible C-Type Beam Clamps 3/4" and 1¼" Throat Openings

Component of State of California OSHPD Approved Seismic Restraints System

Size Range — (Fig. 65 and Fig. 66) 3/8", 1/2" and 5/8" rod

Material — Carbon Steel with hardened cup point set screw and jam nut

Function — Recommended for hanging from steel beam where flange thickness does not exceed 3/4" (Fig. 65) or 1¼" (Fig. 66).

Features — All steel construction eliminates structural deficiencies associated with casting type beam clamps. May be used on top or bottom flange of the beam. (Beveled lip allows hanging from top flange where clearance is limited.) May be installed with set screw in up or down position. Offset design permits unlimited rod adjustment by allowing the rod to be threaded completely through the clamp. Open design permits inspection of thread engagement.

Approvals — Underwriters' Laboratories Listed in the USA **(UL)** and Canada **(cUL)**. Exceeds requirements of the National Fire Protection Association (NFPA), Pamphlet 13, 3/8" rod will support 1/2" thru 4" pipe, 1/2" rod will support 1/2" thru 8" pipe. Included in our Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load, spacing and placement relating to OSHPD projects, please refer to the TOLCO Seismic Restraint Systems Guidelines.

Finish — Plain

Note — Available in Electro-Galvanized and HDG finish.

Order By — Figure number, rod size and finish

Fig. 65 Patent #4,570,885

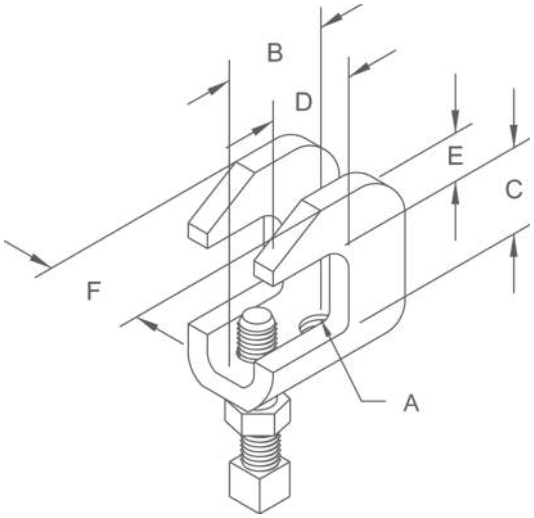


Fig. 65

Dimensions • Weights

Rod Size A	B	C	D	E	F	Max. Rec. Load Lbs.*	Approx. Wt./100
3/8	1 3/16	3/4	1	7/16	1	610	28
1/2	1½	3/4	1	9/16	1¼	1130	55
5/8	1½	3/4	1	9/16	1¼	1130	55

* Max. loads for clamp with set screw in up or down position.

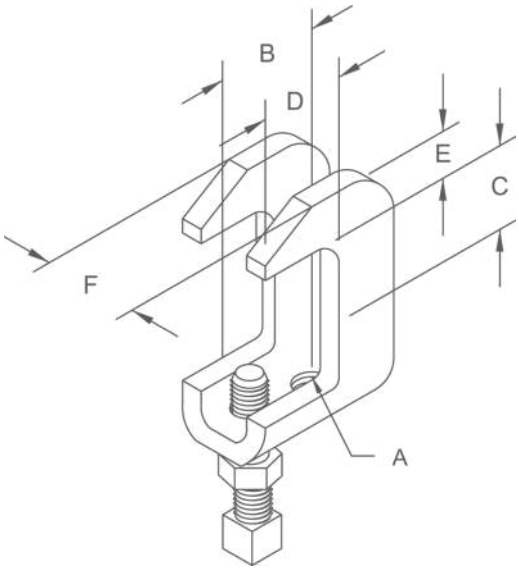


Fig. 66

Dimensions • Weights

Rod Size A	B	C	D	E	F	Max. Rec. Load Lbs.*	Approx. Wt./100
3/8	1 3/16	1¼	1	7/16	1	610	28
1/2	1½	1¼	1	9/16	1¼	1130	55
5/8	1½	1¼	1	9/16	1¼	1130	55

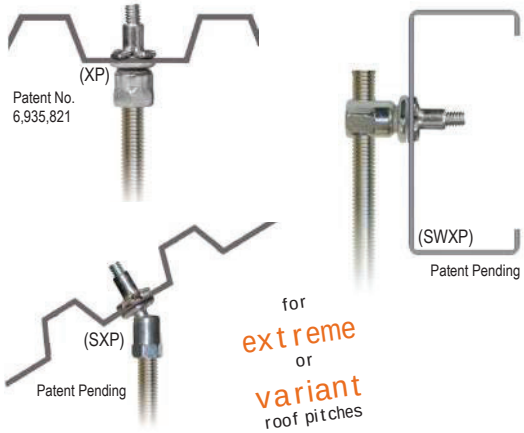
* Max. loads for clamp with set screw in up or down position.

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STEEL STEEL STEEL STEEL

Sammy X-Press® *Installs into Metal Deck, Purlin, or Tubular Steel*

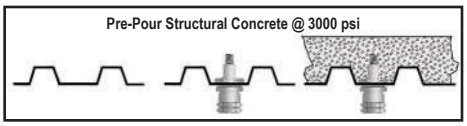


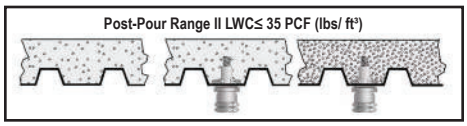


Product Features

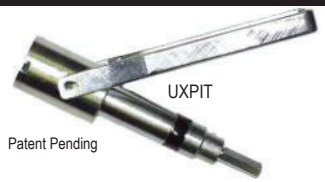
- The ***Sammy X-Press*** expands to provide direct vertical attachment in:
  - Metal Deck (22-16 gauge)
  - Z-Purlin (18-16 gauge)
- The ***Sammy X-Press Swivel*** allows you to hang plumb in extreme roof pitches:
  - 89° in Z-Purlin
  - 45° in metal deck for 12/12 pitch
- The ***Sammy X-Press Sidewinder*** expands to provide horizontal attachment in:
  - 16 ga - 3/16" steel - purlin, tubular steel.
- Installs in seconds, saving time & installation costs.
- Use in applications where access to the back of the installed fastener is prohibited. ie. metal roof deck, tubular steel, or vapor barrier fabric.
- Less jobsite material needed.
- No retaining nut required.
- Provides design flexibility.

Approvals	Rod Size	Part Number	Model	Description	Ultimate Pullout (lbs)	UL Test Load (lbs)	FM Test Load (lbs)	Min Thick	Max Thick	Box Qty	Case Qty	Application
VERTICAL MOUNT												
UL	1/4"	8181922	XP 200	X-Press 200	1146 (22 ga)	185 (Luminaire) 250 (Luminaire)		.027" .056"	.125"	25	125	Metal Deck
UL FM	3/8"	8150922	XP 20	X-Press 20	1146 (22 ga)	850 (2½" Pipe) 185 (Luminaire) 250 (Luminaire) 283 (Conduit & Cable)	940 (2" Pipe) 1475 (4" Pipe)	.027" .027" .056"	.125"	25	125	Metal Deck
UL FM	3/8"	8153922	XP 35	X-Press 35	1783 (16 ga)	1500 (4" Pipe) 85 (Luminaire) 250 (Luminaire) 416 (Conduit & Cable)	940 (2" Pipe) 1475 (4" Pipe)	.060" .105" .027" .056"	.125"	25	125	Purlin
UL FM	3/8"	8294922	SXP 20	Swivel X-Press 20	1061 (22 ga Vertical) 829 (45° Off Vertical)	750 (2" Pipe) 170 vertical (Luminaire) 80 @ 45° (Luminaire) 283 vertical (Conduit & Cable) 233 @ 45° (Conduit & Cable)	635 (2" Pipe)	.027"	.125"	25	125	Metal Deck
UL FM	3/8"	8295922	SXP 35	Swivel X-Press 35	1675 (16 ga Vertical) 1558 (89° Off Vertical)	1500 (4" Pipe) 250 vertical (Luminaire) 80 @ 90° (Luminaire) 500 vertical (Conduit & Cable) 333 @ 89° (Conduit & Cable)	635 (2" Pipe)	.060"	.125"	25	125	Purlin
UL	3/8"	8150922	XP 20	Sammy X-Press 20	1146 (22 ga)	850 (2½ Pipe)	Pre-Pour Structural Concrete@ 3000 psi Post-Pour Range II LWC≤ 35 PCF (lbs/ft³)			25	125	Metal Deck (Pre-Pour) Metal Deck (Post-Pour)
HORIZONTAL MOUNT												
UL	3/8"	8293957	SWXP 35	Sidewinder X-Press 35	1798 (16 ga)	1250 (3¼" Pipe) 80 (Luminaire) 416 (Conduit & Cable)		.060"	.125"	25	125	Purlin





Sammy X-Press It® INSTALLATION TOOL



Part Number	Model	Description	Each Qty
8194910	UXPIT*	Universal X-Press It Tool	1
8195910	RXPIT	Retro Socket for 8151910	1
8152910	XPDB	25/64" Drill Bit	1

*Tool Includes: Sleeve, Bit Receiver, Hex Wrench, and 25/64" Drill Bit.



To watch a video demonstration of the Sammy X-Press, visit http://www.sammysuperscrew.com/sammyxpress.htm

MADE IN U.S.A

RoHS Compliant

SAMMYS®

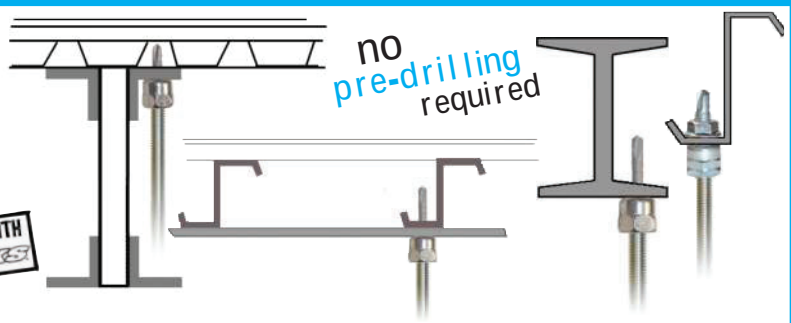
RSN: 1729852
Permit # 2023-2360511-CT

STEEL STEEL STEEL STEEL

SAMMYS® for Steel

Installs VERTICALLY into the bottom of steel structures easily and quickly!





Product Features

- Made with Teks® self-drilling fasteners - no pre-drilling required.
- Install into steel range from 22 gauge – 1/2" thicknesses.
- Saves time from traditional methods.
- Reduces installation cost.
- Quick to install using the Sammy Nut Driver with an 18V cordless drill/driver.

Approvals	Rod Size	Part Number	Model	Screw Descriptions	Ultimate Pullout (lbs)	UL Test Load (lbs)	FM Test Load (lbs)	Min Thick	Max Thick	Box Qty	Case Qty
	1/4"	8024957	DSTR 100 *	1/4-20 x 1" TEKS 3	1510 (20 ga.)			.036"-20 ga	3/16"	25	125
	1/4"	8025957	DST 100	1/4-14 x 1" TEKS 3	446 (20 ga.)			.036"-20 ga	3/16"	25	125
	1/4"	8026957	DST 150	1/4-14 x 1-1/2" TEKS 3	970 (16 ga.)			.036"-20 ga	3/16"	25	125
	1/4"	8027957	DST 200	1/4-14 x 2" TEKS 3	446 (20 ga.)			.036"-20 ga	3/16"	25	125
	1/4"	8030957	TEK 500	12-24 x 1-1/2" TEKS 5	3125 (3/16")			.187"-3/16"	1/2"	25	125
UL FM	3/8"	8038957	DSTR 1 *	1/4-20 x 1" TEKS 3	1510 (20 ga.)	1500	1475	.036"-20 ga	3/16"	25	125
UL FM	3/8"	8037957	DSTR 1-1/2 *	12-24 x 1-1/2" TEKS 5	1510 (3/16")	1500	1475	.060"-16 ga.	1/2"	25	125
UL FM	3/8"	8039957	DSTR 516 *	5/16-18 x 1-1/4" TEKS 3	2200 (20 ga.)	1500	1475	.036"-20 ga	1/8"	25	125
	3/8"	8040957	DST 10	1/4-14 x 1" TEKS 3	446 (20 ga.) 970 (16 ga.)			.036"-20 ga	3/16"	25	125
	3/8"	8077925	DST 10-SS	1/4-14 x 1" TEKS 3	446 (20 ga.) 970 (16 ga.)			.036"-20 ga	3/16"	25	125
	3/8"	8041957	DST 15	1/4-14 x 1-1/2" TEKS 3	446 (20 ga.) 970 (16 ga.)			.036"-20 ga	3/16"	25	125
	3/8"	8078925	DST 15-SS	1/4-14 x 1-1/2" TEKS 3	446 (20 ga.) 970 (16 ga.)			.036"-20 ga	3/16"	25	125
	3/8"	8042957	DST 20	1/4-14 x 2 TEKS" 3	446 (20 ga.) 970 (16 ga.)			.036"-20 ga	3/16"	25	125
	3/8"	8043957	DST 25	1/4-14 x 2-1/2" TEKS 3	446 (20 ga.) 970 (16 ga.)			.036"-20 ga	3/16"	25	125
	3/8"	8044957	DST 30	1/4-14 x 3" TEKS 3	446 (20 ga.) 970 (16 ga.)			.036"-20 ga	3/16"	25	125
UL FM	3/8"	8045957	DST 516	5/16-18 x 1-1/4" TEKS 3	1500 (3/16")	1500	1475	.125"-1/8"	1/8"	25	125
UL FM	3/8"	8046957	TEK 50	12-24 x 1-1/2" TEKS 5	3125 (3/16")	1500	1475	.187"-3/16"	1/2"	25	125
	1/2"	8031925	DST 2.0	1/4-14 x 2" TEKS 3	446 (20 ga.) 970 (16 ga.)			.188"-3/16"	1/4"	25	125
	1/2"	8033925	DSTR 1.0 *	1/4-20 x 1" TEKS 3	1510 (20 ga.)			.036"-20 ga	3/16"	25	125
	1/2"	8034925	DSTR 5.16 *	5/16-18 x 1-1/4" TEKS 3	2220 (20 ga.)			.036"-20 ga	1/8"	25	125
	1/2"	8035925	DST 5.16	5/16-18 x 1-1/4" TEKS 3	1500 (3/16")			.125"-1/8"	1/8"	25	125
	1/2"	8036925	TEK 5.0	12-24 x 1-1/2" TEKS 5	3125 (3/16")			.187"-3/16"	1/2"	25	125

*Includes retaining nut



#14 Black Nut Driver
Part # 8113910



#14 SW Red Nut Driver
Part # 8114910

SAMMY Swivel Head® for Steel

Installs VERTICALLY and swivels up to 17° in steel structure



Product Features

- Eliminates distortion of threaded rod in sloped roof applications.
- Accommodates 3-1/2 x 12 pitch.
- Installs into angled Z-Purlin; Allows threaded rod to hang plumb.
- Allows 17° deflection from vertical.

Approvals	Rod Size	Part Number	Model	Screw Descriptions	Ultimate Pullout (lbs)	UL Test Load (lbs)	FM Test Load (lbs)	Min Thick	Max Thick	Box Qty	Case Qty
UL FM	3/8"	8137957	SH-DSTR 1 *	1/4-20 x 1"	3220 (3/16")	1500	1475	.035"	3/16"	25	125

*Includes retaining nut

(Does not comply with ROHS requirements)



#14 Black Nut Driver
Part # 8113910

SPECIAL NUT DRIVER SYSTEM: The nut drivers were designed with a unique spin-off feature which provides a fast and safe installation each time. When the face of the driver comes into contact with the material you are installing into, continue drilling until nut driver spins free. Installation is then complete. Warranty requires the use of the appropriate nut driver for installations.

MADE IN U.S.A.

RoHS Compliant