

Fire Suppression

General Products Catalog



Automatic Sprinklers
System Valves & Devices
Piping & Electrical Products

FIRE SUPPRESSION

General Products Catalog

Johnson Controls leads the industry in water-based fire suppression products, offering one of the broadest product lines globally. Through ongoing, world-class research and development, we're continually expanding our capabilities. Our solutions include brands that have led the fire protection industry for decades – with over 150 years in the industry, we are uniquely qualified to deliver cost-effective solutions customized to any building configuration and fire protection application.

The Johnson Controls team is committed to delivering products with dependable performance that have received independent approvals and certifications from industry agencies globally. Our state-of-the-art, international manufacturing facilities have all been granted ISO 9000 approvals and are routinely audited by independent testing agencies for quality and conformance. We also participate in more than 70 National Fire Protection Association (NFPA) committees and several international standards and code-making bodies.

Johnson Controls fire suppression offering includes leading brands from across the fire protection industry with decades of industry knowledge and expertise. The brands leverage the global reach of Johnson Controls to bring customers effective solutions for a variety of applications.



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All metric measurements throughout this catalog are based on U.S. standard-to-metric conversions.
Metric specifications may vary from country to country.



Standard Spray Sprinklers

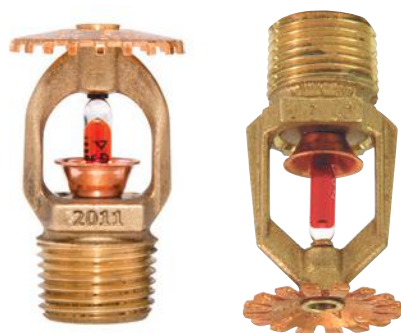
Offered in a wide range of standard and quick response options for light and ordinary hazard occupancies.

- Office Buildings
- Schools
- Libraries
- Theaters
- Banks
- Retail

Standard Spray Sprinklers

TY-B

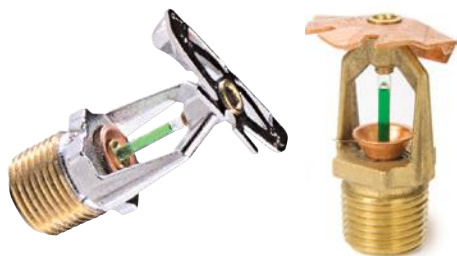
Upright, Pendent, & Recessed Pendent



K Factor	K=2.8 (40,3) • K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	K=2.8 – UL, C-UL, FM, NYC K=5.6 – UL, C-UL, FM, CE, VdS K=8.0 – UL, C-UL, FM, NYC, LPCB, VdS
Temperature	135°F (57°C), 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C), 360°F (182°C)
Escutcheon	K=5.6 – Style 15, Style 20 K=8.0 – Style 10, Style 40
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Natural Brass
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY1151, TY1251, TY315, TY325, TY4151, TY4251, TY4851, TY4951
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	K=2.8 & K=8.0 – TFP151 / K=5.6 – TFP152

All hazard ■ 5 mm bulb ■ Small frame, narrow profile bulb ■ Discharges a hemispherical water spray pattern in the area beneath the sprinkler ■ Designed for use in light, ordinary, or extra hazard, commercial occupancies such as banks, hotels, shopping malls, factories, refineries, chemical plants, etc.

Horizontal, Recessed Horizontal Sidewall & Vertical Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC, LPCB
Temperature	135°F (57°C), 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C), 360°F (182°C), Open (HSW TY3351)
Escutcheon	Style 10
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Natural Brass
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY3351, TY3451
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	TFP161

Light hazard/Ordinary hazard ■ 5 mm bulb ■ Small frame ■ Unique deflector design of the horizontal sidewall sprinkler results in smaller profile ■ Designed for installation along a wall or the side of a beam just beneath a smooth ceiling ■ Water discharge is directed primarily outward and downward in a quarter spherical pattern ■ Sidewall sprinklers are often used in lieu of standard pendent or upright sprinklers due to building construction, economic considerations, or aesthetics ■ Special deflector on the vertical sidewall sprinkler allows it to be installed in either a pendent or upright position

Standard Spray Sprinklers

TY-FRB

Upright, Pendent, & Recessed Pendent



K Factor	K=2.8 (40,3) • K=4.2 (60,5) • K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	K=2.8 – UL, C-UL, FM, NYC K=4.2 – UL, C-UL K=5.6 – UL, C-UL, FM, CE, VdS K=8.0 – UL, C-UL, FM, NYC, LPCB, VdS
Temperature	135°F (57°C), 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)
Escutcheon	K=2.8, K=4.2 & K=8.0 – Style 10 • Style 20 • Style 30 • Style 40 K=5.6 – Style 15 • Style 20
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Natural Brass
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated
SIN	TY313, TY323, TY1131, TY1231, TY2131, TY2231, TY3131, TY3231, TY4131, TY4231, TY4831, TY4931
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	K=2.8 thru K=8.0 – TFP171 , K=5.6 – TFP172

Light hazard/Ordinary hazard ■ 3 mm bulb ■ Small frame and narrow profile bulb enhance appearance ■ Hemispherical water spray pattern in the area beneath the sprinkler ■ Designed for use in commercial occupancies such as banks, hotels, and shopping malls.

Horizontal, Recessed Horizontal Sidewall & Vertical Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC, LPCB
Temperature	135°F (57°C), 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)
Escutcheon	Style 10 • Style 20
Escutcheon Finish	Signal White, Pure White, Jet Black, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black, Poly-Stainless, Lead Coated
SIN	TY3331, TY3431
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	TFP176

Light hazard/Ordinary hazard ■ 3 mm bulb ■ Designed for use in applications where aesthetics must be considered or where building construction makes the installation of standard pendent or upright sprinklers impractical ■ Vertical sidewall sprinkler can be installed in either the pendent or upright position along a wall or the side of a beam and just below a smooth ceiling

Standard Spray Sprinklers

RFII

Concealed Pendent



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	3mm= UL, C-UL, NYC, VdS 5mm= UL, C-UL, FM, NYC, LPCB
Temperature	155°F/68°C - Sprinkler, 139°F/59°C - Cover Plate 200°F/93°C - Sprinkler, 165°F/74°C - Cover Plate
Cover Plate Finish	Chrome, Brushed Chrome, Brass, Signal White, Grey White, Pure White, Jet Black, Custom
SIN	TY3551, TY3531
Wrench Type	RFII
Tech Data Sheet	TFP181

Light hazard/Ordinary hazard ■ 5 mm bulb (standard) 3 mm bulb (quick) ■ Internally threaded closure with 1/2" (12,7 mm) of adjustment
 ■ Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration
 ■ Separable, two-piece design of the mounting cup and cover plate 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 ■ Available with optional dust and air seal

ILLUSION™

Concealed Standard Coverage Pendent Sprinklers



K Factor	K=11.2 (161,3)
Thread Size	3/4" NPT
Approvals	UL, C-UL
Temperature	160°F/71°C, - Sprinkler - 139°F/59°C - Cover Plate, 212°F/100°C - Sprinkler - 165°F/74°C - Cover Plate
Cover Plate Finish	Chrome, Brush Chrome, Brass, Signal White, Grey White, Pure White, Custom
SIN	TY5521
Wrench Type	W-TYPE 18
Tech Data Sheet	TFP184

Extra large orifice/Special hazard ■ Coverage per NFPA 13 ■ Available with optional dust and air seal ■ The ILLUSION is concealed in an enclosed escutcheon plate with flat cover for use in those applications where architecturally sensitive areas such as casinos, hotel lobbies, office buildings, churches and restaurants

Standard Spray Sprinklers

TY-L

Upright, Pendent, & Recessed Pendent



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, LPCB
Temperature	165°F/74°C, 212°F/100°C, 280°F/138°C
Escutcheon	Style 20 • Style 30
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated, Wax over Lead Coated, Wax Coated
SIN	TY3111, TY3211, TY4111 TY4211, TY4811, TY4911
Wrench Type	W-TYPE 9 / W-TYPE 10 (for recessed escutcheons)
Tech Data Sheet	TFP110

All hazard ■ Solder type ■ Discharges a hemispherical water spray pattern in the area beneath the sprinkler ■ Designed for use in light, ordinary, and extra hazard, commercial occupancies such as banks, hotels, shopping malls, factories, refineries, chemical plants, etc.

Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Temperature	165°F/74°C, 200°F/93°C, 212°F/100°C, 280°F/138°C, 286°F/141°C
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY3311
Wrench Type	W-TYPE 9
Tech Data Sheet	TFP120

Light hazard / Ordinary hazard ■ Solder type ■ Suited for hotels, nursing homes and hospitals ■ Design allows piping to be confined to corridors, closets or service areas ■ They are designed for installation along a wall or the side of a beam and just beneath a smooth ceiling.

Standard Spray Sprinklers

TY-FRL

Upright, Pendent, & Recessed Pendent



K Factor	K=2.8 (40,3) • K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	2.8 =UL, C-UL, NYC 5.6 =UL, C-UL, FM, NYC, LPCB 8.0 = UL, C-UL, FM, NYC
Temperature	165°F/74°C, 212°F/100°C
Escutcheon	1/2" NPT - Style 20 3/4" NPT - Style 30
Escutcheon Finish	White Coated, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY1121, TY1221, TY3121 TY3221, TY4121, TY4221
Wrench Type	W-TYPE 9 / W-TYPE 12 (for recessed escutcheons)
Tech Data Sheet	TFP130

Light hazard/Ordinary hazard - light hazard K=2.8 (40,3) ■ Solder type ■ Typically used in hotels, motels, office buildings and other commercial and industrial applications

Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY3321
Wrench Type	W-TYPE 9
Tech Data Sheet	TFP140

Light hazard/Ordinary hazard ■ Solder type ■ Designed for compact installation along a wall or on the side of a beam just beneath a smooth ceiling ■ Generally used in lieu of pendent or upright sprinklers because of aesthetics, building construction, where piping across the ceiling is not desirable.



Extended Coverage Sprinklers

Intended for protection of areas larger than those specified in standard installation rules and specific light, ordinary and extra hazard occupancies.

- Office Buildings
- Libraries
- Hotels
- High-Piled Storage
- Hospitals
- "Big Box" Retailing

Extended Coverage Sprinklers

EC-25

Upright



K Factor	K=25.2 (362,9)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, C-UL, FM, NYC
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Natural Brass
SIN	TY9128
Wrench Type	W-TYPE 1
Tech Data Sheet	TFP213

For use in high density applications such as "big box" retailing, extra hazard, and high-piled storage occupancies ■ Solder type ■ CMDA and CMSA Applications and FM Approved for storage and non-storage applications ■ Minimum operating pressure of 7 psi (0,48 bar) ■ The maximum coverage area per sprinkler is 196 ft.² (18,2 m²), which is almost double the area offered by standard coverage sprinklers used for similar applications.

EC-11 & EC-14

Upright, Pendent & Recessed Pendent



K Factor	K=11.2 (161,3) • K=14.0 (201,6)
Thread Size	3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, Open
Escutcheon	Style 30 • Style 40 • Style 60
Escutcheon Finish	White Coated, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White, Jet Black, Lead Coated
SIN	TY5137, TY5237, TY6137, TY6237
Wrench Type	W-TYPE 3 / W-TYPE 22 (for recessed escutcheons)
Tech Data Sheet	TFP220

Light hazard/Ordinary hazard ■ 3 mm bulb ■ Designed for maximum coverage applications of 400 ft² - 14' x 14' (4,3 m x 4,3 m) up to 20' x 20' (6,1 m x 6,1 m) ■ Low profile decorative glass bulb spray sprinklers ■ Series EC-11 and EC-14 Sprinklers feature a UL and C-UL Listing that permits their use with unobstructed or non-combustible obstructed ceiling construction as defined and permitted by NFPA 13, as well as a specific application listing for use under concrete tees.

Extended Coverage Sprinklers

EC-8

Pendent & Recessed Pendent



K Factor	K=8.0 (115,2)
Thread Size	3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C
Escutcheon	Style 30 • Style 40
Escutcheon Finish	Natural Brass, Signal White, Chrome Plated
Sprinkler Finish	Natural Brass, Signal White Polyester, Chrome Plated
SIN	TY4232
Wrench Type	W-TYPE 3 / W-TYPE 23 (for recessed escutcheons)
Tech Data Sheet	TFP223

Light hazard ■ 3 mm bulb ■ Covers areas as large as 20' x 20' (6,1 m x 6,1 m) ■ The recessed version of the EC-8, intended for use in areas with a finished ceiling, uses either the two-piece Recessed Escutcheon ■ The Series EC-8 Extended Coverage Pendent Sprinklers are decorative glass bulb sprinklers designed for use in light hazard occupancies.

EC-5

Pendent & Recessed Pendent



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C
Escutcheon	Style 50
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White Polyester
SIN	TY3232
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	TFP228

Light hazard ■ 3 mm bulb ■ Coverage up to 20' x 20' (6,1 m x 6,1 m)

Extended Coverage Sprinklers

EC-5

Horizontal Sidewall & Recessed Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C, 200°F/93°C
Escutcheon	Style 50
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Signal White, Pure White, Natural Brass, Chrome Plated
SIN	TY3302
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	TFP298

Light hazard ■ 3 mm bulb ■ Coverage up to 16' x 24' (4,9 m x 7,3 m) ■ Designed for use in hydraulically calculated sprinkler systems in commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.

TY-FRB

Horizontal Sidewall & Recessed Horizontal Sidewall



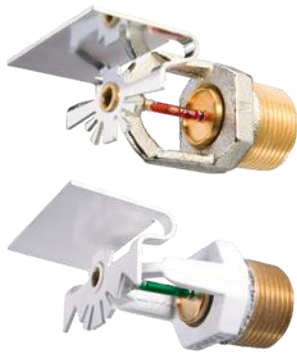
K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C
Escutcheon	Style 10 • Style 20 • Style 30 • Style 40
Escutcheon Finish	White Coated, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Pure White, Signal White, Jet Black, Chrome Plated
SIN	TY3332, TY4332
Wrench Type	W-TYPE 6 / W-TYPE 7 (for recessed escutcheons)
Tech Data Sheet	TFP296

Light hazard ■ 3 mm bulb ■ Two-piece escutcheon converts sidewall sprinklers into low profile sprinkler assemblies with coverage areas up to 16' x 22' (4,9 m x 6,7 m) for K=5.6 and 16' x 24' (4,9 m x 7,3 m) for K=8.0 ■ Provides 3/4" NPT (19,1 mm) of horizontal adjustment from the recessed sidewall position ■ Quick & Standard Response (see tech data sheet) ■ Decorative sprinklers designed for use in hydraulically calculated sprinkler systems in light hazard, commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.

Extended Coverage Sprinklers

ELO SW-20/SW-24

Horizontal Sidewall



K Factor	K=11.2 (161,3)
Thread Size	3/4" NPT
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C, 200°F/93°C
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5332, TY5337
Wrench Type	W-TYPE 3
Tech Data Sheet	TFP230

Extended Coverage Ordinary Hazard (ECOH) ■ 3 mm bulb ■ SW-20 Listed to a 16'-0" (4,9 m) wide and a 20'-0" (6,1 m) throw maximum coverage area, SW-24 Listed to a 16'-0" (4,9 m) wide and a 24'-0" (7,3 m) throw maximum coverage area ■ Standard Response, Extended Coverage Ordinary Hazard (ECOH) Horizontal Sidewall Sprinklers are decorative glass bulb sprinklers designed for use in ordinary hazard occupancies per NFPA 13

TY-FRL

Horizontal Sidewall



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	165°F/74°C
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY3322, TY4322
Wrench Type	W-TYPE 9
Tech Data Sheet	TFP280

Light hazard ■ Solder type ■ Coverage up to 16 feet (4,9 m) wide by 24 feet (7,3 m) long, they are designed for installation along a wall or the side of a beam and just beneath a smooth, flat, horizontal ceiling ■ Designed for use in commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.

Extended Coverage Sprinklers

CHEC

Concealed Horizontal Extended Coverage Sidewall



K Factor	K=8.0 (115,2)
Thread Size	3/4" NPT
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C – Sprinkler, 139°F/59°C – Cover Plate
Cover Plate Finish	Signal White, Pure White, Chrome, Custom
SIN	TY4332
Wrench Type	W-TYPE 7
Tech Data Sheet	TFP265

Light hazard ■ 3 mm bulb ■ Coverage up to 16' x 16' (4,9 m x 4,9 m) ■ Lowest flows & pressures allowed by NFPA 13 ■ 1/2" adjustment ■ 12" maximum deflector distance from ceiling ■ No "Slots" in cover plate ■ It is the best choice for architecturally sensitive areas such as dormitories, hotel rooms, reception areas, office buildings, banquet facilities, conference rooms, and hospitals.

ELOC

Extra Large Orifice Concealed Pendent



K Factor	K=11.2 (161,3)
Thread Size	3/4" NPT
Approvals	UL, C-UL, NYC
Temperature	160°F/71°C – Sprinkler – 139°F/59°C – Cover Plate, 212°F/100°C – Sprinkler – 165°F/74°C – Cover Plate
Cover Plate Finish	Chrome Plated, Brass Plated, Signal White, Grey White, Custom
SIN	TY5522
Wrench Type	W-TYPE 18
Tech Data Sheet	TFP250

Light hazard ■ Extra Large Orifice Concealed (ELOC) Pendent Sprinklers are decorative, fast response solder type sprinklers featuring a flat cover plate designed to conceal the sprinkler ■ Covers 400 sq. ft. (37,2 m²) using less pressure than a standard 1/2" (12,7 mm) sprinkler at 225 sq. ft. (20,3 m²) ■ Available with optional dust and air seal ■ Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration.

Extended Coverage Sprinklers

RFII

Concealed Pendent



K Factor	K=5.6 (80.6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C - Sprinkler 139°F/59°C - Cover Plate, 200°F/93°C - Sprinkler 165°F/74°C - Cover Plate
Cover Plate Finish	Chrome, Brass, Pure White, Signal White, Grey White, Jet Black, Custom
SIN	TY3532
Wrench Type	RFII
Tech Data Sheet	TFP260

Light hazard ■ 3 mm bulb ■ Maximum 20' x 20' (6,1 m x 6,1 m) QR Listing ■ Internally threaded closure with 1/2" (12,7 mm) of adjustment ■ Separable, two-piece design of the mounting cup and cover 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 ■ Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration.

RFIII

Flat Plate Concealed Horizontal Extended Coverage Sidewall



K Factor	K=8.0 (115,2)
Thread Size	3/4" NPT
Approvals	UL, C-UL
Temperature	160°F/71°C - Sprinkler 139°F/59°C - Cover Plate
Cover Plate Finish	Ivory, Beige, Pure White, Signal White, Grey White, Brown, Black, Brushed Chrome, Brushed Brass, Custom Paint
SIN	TY4522
Wrench Type	W-Type 37
Tech Data Sheet	TFP270

Light hazard ■ Decorative, link type, sprinkler featuring a unique flat cover designed to conceal the sprinkler within a wall ■ The sprinkler is the best choice for architecturally sensitive areas such as dormitories, hotel rooms, reception areas, office buildings, banquet facilities, conference rooms, and hospitals ■ The Model RFIII ECLH Concealed HSW Sprinklers are designed for installation along a wall or the side of a beam, and beneath a smooth level ceiling.



Storage Sprinklers

Intended for use in specific storage applications and include a broad offering of early suppression fast response (ESFR) sprinklers.

- High-Piled Storage
- Warehouse
- Box-In-Box Cold Storage
- High Challenge Occupancies
- In-Rack Storage
- Beneath Open Gridded Catwalks

Storage Sprinklers

ESFR-25

Pendent



K Factor	K=25.2 (362,9)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, C-UL, FM, NYC, LPCB, VdS, CE
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Natural Brass
SIN	TY9226
Wrench Type	W-TYPE 1
Tech Data Sheet	TFP312

Early Suppression, Fast Response (ESFR) ■ Solder type ■ The TYCO Model ESFR-25 Pendent Sprinklers are listed by UL for Specific Applications with a ceiling height greater than 45 ft. (13,7 m) up to and including 48 ft. (14,6 m), and a storage arrangement up to and including 43 ft. (13,1 m) ■ Direct attack on burning fuel by improved heavy sprinkler discharge ■ Patented frame design substantially reduces the frame shadow effects that often produce non-uniformity in spray pattern, Novel orifice seal and unique fast response link design are the very latest in sprinkler technology ■ Suppression-mode sprinklers that are especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting high-piled storage.

ESFR-22

Pendent



K Factor	K=22.4 (320)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, C-UL, FM
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Natural Brass
SIN	TY8223
Wrench Type	W-TYPE 1
Tech Data Sheet	TFP321

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Suppression-mode sprinklers that are especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting high-piled storage ■ Direct attack on burning fuel by improved heavy sprinkler discharge ■ The TYCO Model ESFR-22 Pendent Sprinklers are listed by UL and C-UL for Specific Applications with a ceiling height of 45 ft. (13,7 m) and a storage arrangement up to and including 40 ft. (12,2 m)

Storage Sprinklers

ESFR-17

Upright



K Factor	K=16.8 (241,9)
Thread Size	3/4" NPT
Approvals	FM, CE
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Natural Brass
SIN	TY7126
Wrench Type	W-TYPE 21
Tech Data Sheet	TFP316

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Unique, upright design and large K-Factor overcome many pendent obstruction problems ■ Use of this sprinkler is especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting rack storage arrangements, Primarily designed for use in ceiling only sprinkler systems.

Pendent



K Factor	K=16.8 (241,9)
Thread Size	3/4" NPT
Approvals	UL, C-UL, FM
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Natural Brass
SIN	TY7223
Wrench Type	W-TYPE 35
Tech Data Sheet	TFP317

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Primarily designed for use in ceiling only sprinkler systems ■ Model ESFR-17 Pendent Sprinklers are designed to operate at substantially lower-end head pressures, as compared to ESFR Sprinklers having a nominal K-factor of 14.0 ■ They are suppression mode sprinklers that are especially advantageous as a means of eliminating in-rack sprinklers when protecting high-piled storage.

Storage Sprinklers

ESFR-17

Dry-Type Pendent



K Factor	K=16.8 (241,9)
Thread Size	1-1/4" NPT or ISO 7-R 1-1/4
Grooved End	2" Standard Cut Grooved per Tech Data Sheet TFP1898
Approvals	UL, FM
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Natural Brass
SIN	TY7229
Wrench Type	W-TYPE 26
Tech Data Sheet	TFP320

Early Suppression, Fast Response (ESFR) ■ Solder type ■ Eliminates in-rack sprinklers for box-in-box applications ■ Suppression mode sprinklers that are especially advantageous as a means of eliminating in-rack sprinklers when protecting high-piled box-in-box refrigerated storage areas ■ The drop between the inlet and sprinkler remains dry until the sprinkler operates, allowing for a pendent sprinkler installation on a wet pipe sprinkler system where the dry drop and sprinkler are located in an area subjected to freezing temperatures ■ Less costly to install and maintain than pre-action or antifreeze systems ■ The Model ESFR-17 Dry Type Pendent Sprinkler is FM Approved and has successfully undergone full-scale fire testing at FM Global, when used in conformance with applicable FM Global Property Loss Prevention Data Sheets ■ The Model ESFR-17 Dry Type Sprinklers are primarily used for ceiling only sprinkler protection and used to protect solid piled, palletized, and rack storage that is subject to freezing temperatures

ESFR-14

Pendent



K Factor	K=14.0 (201,6)
Thread Size	3/4" NPT or ISO 7-1
Approvals	UL, C-UL, FM
Temperature	155°F/68°C, 200°F/93°C
Sprinkler Finish	Natural Brass
SIN	TY6236
Wrench Type	W-TYPE 34
Tech Data Sheet	TFP319

Early Suppression, Fast Response (ESFR) ■ 3mm bulb type ■ Designed for the protection of rack storage ■ Direct attack on burning fuel by improved heavy sprinkler discharge ■ They are suppression-mode sprinklers that are especially advantageous as a means of eliminating the use of in-rack sprinklers when protecting high-piled storage.

Storage Sprinklers

ULTRA K-17

Upright, Control Mode Specific Application



K Factor	K=16.8 (241,9)
Thread Size	3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	155°F/68°C, 200°F/93°C
Sprinkler Finish	Natural Brass
SIN	TY7153
Wrench Type	W-TYPE 8
Tech Data Sheet	TFP330

5 mm bulb ■ Approved for storage heights of 25' (7,6 m) and building heights to 30' (9,1 m) ■ Full-scale fire testing has shown that the Ultra K17 can control fires with commodities up to Group A plastics, and eliminate the need for in-rack sprinklers.

Upright, Control Mode Specific Application, 286° F



K Factor	K=16.8 (241,9)
Thread Size	3/4" NPT
Temperature	286°F/141°C
Sprinkler Finish	Natural Brass
Wrench Type	W-TYPE 8
Tech Data Sheet	Contact Tyco for Details

5 mm bulb ■ Control mode sprinkler

Storage Sprinklers

K17-231

Pendent & Upright



K Factor	K=16.8 (241,9)
Thread Size	3/4" NPT
Approvals	Upright= UL, C-UL, FM, NYC Pendent= UL, C-UL, NYC
Temperature	155°F/68°C, 200°F/93°C, 286°F/141°C
Sprinkler Finish	Natural Brass
SIN	TY7151, TY7251
Wrench Type	W-TYPE 8
Tech Data Sheet	TFP332

5 mm bulb ■ They are "standard response spray sprinklers" which produce a hemispherical water distribution pattern below the deflector ■ Low-pressure requirement (as low as 7 psi) can save cost by reducing branch line size, taking advantage of maximized spacing, and upgrading existing densities ■ Very large orifice sprinkler for use in high challenge storage occupancies.

ELO-231B

Pendent & Upright



K Factor	K=11.2 (161,3)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	155°F/68°C, 200°F/93°C, 286°F/141°C
Sprinkler Finish	Brass, Chrome Plated, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY5151, TY5251, TY5851
Wrench Type	W-TYPE 3
Tech Data Sheet	TFP342

5 mm bulb ■ Extra large orifice sprinklers proven for storage occupancies through full-scale fire testing ■ Can be used as intermediate level version by adding a guard and shield ■ Designed to control high challenge fires with relatively low required pressures

Storage Sprinklers

ELO-231 FRB

Pendent & Upright



K Factor	K=11.2 (161,3)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC, VdS, LPCB
Temperature	155°F/68°C, 200°F/93°C, 286°F/141°C
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY5131, TY5231, TY5831
Wrench Type	W-TYPE 3
Tech Data Sheet	TFP344

3 mm bulb ■ Extra large orifice sprinklers proven for storage occupancies through full-scale fire testing ■ Can be used as intermediate level version by adding a guard and shield ■ Designed to control high challenge fires with relatively low required pressures

ELO-231

Pendent & Upright



K Factor	K=11.2 (161,3)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	165°F/74°C, 212°F/100°C, 286°F/141°C
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY5111, TY5211, TY5811
Wrench Type	W-TYPE 3
Tech Data Sheet	TFP340

Solder type ■ Extra large orifice sprinklers proven for storage occupancies through full-scale fire testing ■ Can be used as intermediate level version by adding a guard and shield ■ Designed to control high challenge fires with relatively low required pressures

Storage Sprinklers

LD "Large Drop"

Upright, Control Mode Specific Application



K Factor	K=11.2 (161,3)
Thread Size	3/4" NPT
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C, 200°F/93°C, 286°F/141°C
Sprinkler Finish	Natural Brass
SIN	TY5153
Wrench Type	W-TYPE 3
Tech Data Sheet	TFP335

5 mm bulb ■ Control mode sprinkler ■ Can provide a higher level of protection than standard spray sprinklers ■ Can provide an advantage by eliminating in-rack sprinklers ■ Designed for the protection of high-piled storage

TY-B

Pendent & Upright, Intermediate Level



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Sprinkler Finish	Natural Brass, Lead Coated, Wax Coated, Wax over Lead Coated
SIN	TY3153, TY3251, TY4153, TY4251
Wrench Type	W-TYPE 6
Tech Data Sheet	TFP351

5 mm bulb ■ Intermediate level (in-rack) with shield ■ Used where sprinkler guards are not required ■ Factory assembled unit having an integral water shield ■ Both the Pendent and Upright Sprinklers produce a hemispherical water distribution pattern below the deflector.

Storage Sprinklers

TY-B

Pendent & Upright, Intermediate Level



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Sprinkler Finish	Natural Brass
Guard Finish	Red or Zinc
SIN	TY315, TY325
Wrench Type	W-TYPE 6
Tech Data Sheet	TFP352

5 mm bulb ■ Factory assembled unit having an integral water shield ■ Intermediate Level Sprinklers are primarily designed for use in rack storage sprinkler systems where their thermally sensitive elements must be shielded from the water spray of higher elevation sprinklers that could operate earlier during a fire ■ May also be used in other applications such as beneath open gridded catwalks.

TY-FRB

Pendent & Upright, Intermediate Level



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Sprinkler Finish	Natural Brass, Lead Coated
SIN	TY3133, TY3231, TY4133, TY4231
Wrench Type	W-TYPE 6
Tech Data Sheet	TFP356

3 mm bulb ■ Intermediate level with shield ■ Factory assembled unit having an integral water shield ■ Used where sprinkler guards are not required

Storage Sprinklers

TY-FRB

Pendent & Upright, Intermediate Level



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C
Sprinkler Finish	Natural Brass
Guard Finish	Red or Zinc
SIN	TY313, TY323
Wrench Type	W-TYPE 6
Tech Data Sheet	TFP357

3 mm bulb ■ Factory assembled unit having an integral water shield ■ Intermediate Level Sprinklers are primarily designed for use in rack storage sprinkler systems where their thermally sensitive elements must be shielded from the water spray of higher elevation sprinklers that could operate earlier during a fire ■ May also be used in other applications such as beneath open gridded catwalks

TY-L

Pendent & Upright, Intermediate Level



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM
Temperature	165°F/74°C, 212°F/100°C, 280°F/138°C
Sprinkler Finish	Natural Brass
SIN	TY3113, TY3211, TY4113, TY4211
Wrench Type	W-TYPE 9
Tech Data Sheet	TFP350

Solder type ■ Intermediate level with shield ■ Factory assembled unit having an integral water shield ■ Used where sprinkler guards are not required

Storage Sprinklers

TY-FRL

Pendent & Upright, Intermediate Level



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, NYC
Temperature	165°F/74°C
Sprinkler Finish	Natural Brass, Chrome Plated
SIN	TY3123, TY3221, TY4123, TY4221
Wrench Type	W-TYPE 9
Tech Data Sheet	TFP355

Solder type ■ Intermediate level with shield ■ Factory assembled unit having an integral water shield ■ Used where sprinkler guards are not required

Sprinkler Guards

Model G1 & G4 Sprinkler Guards Model G1/S1 & G4/S3 Guards with Shields



G1

Approvals	UL, C-UL, FM
Guard Finishes	Plain Brass, Red Painted, Chrome Plated, Zinc Coated, Zinc Chromate
Tech Data Sheet	TFP780

Designed for use with specific types of Series TY-B, TY-FRB, TY-L, and TY-FRL Sprinklers that may be located in areas that make them susceptible to mechanical or physical damage ■ Rugged guard design to minimize possible damage to sprinklers ■ Shields are for use in storage racks or beneath grated mezzanine, or other areas requiring the sprinklers to be shielded from possible discharge from sprinklers above ■ Can be used with either 1/2" or 3/4" NPT sprinklers



S1



G4/S3 with Shield



G4



G4

Storage Sprinklers

Sprinkler Guards

Model G2 Sprinkler Guard, Model WS-2 Shield, and Model WSG-2 Sprinkler Guard with Shield



WSG-2 with Shield

Approvals	UL, C-UL, FM
Guard Finishes	Red Painted, Zinc Coated
Tech Data Sheet	TFP782

Designed for use with Series ELO-231, ELO-231B, or ELO-231FRB Sprinklers that may be located in areas that make them susceptible to mechanical or physical damage ■ Rugged guard design to minimize possible damage to sprinklers ■ Shields are for use in storage racks or beneath grated mezzanine, or other areas requiring the sprinklers to be shielded from possible discharge from sprinklers above ■ Can be used with either 1/2" or 3/4" NPT sprinklers



G2



WS-2 Shield

Model EG-25 Sprinkler Guard for Model ESFR-25 Pendent Sprinkler



Approvals	FM
Guard Finishes	Red Painted, Zinc Chromate
Tech Data Sheet	TFP784

Designed for use with the TYCO Model ESFR-25 Pendent Sprinkler and may be located in areas that make it susceptible to mechanical or physical damage ■ Provides protection from mechanical and/or physical damage, for example, rack storage sprinkler installations ■ Welded assembly fabricated from carbon steel



RAPID RESPONSE® Residential Sprinkler Systems

Offer optimum design and flow characteristics for all residential applications.

- Townhomes
- Multi-family
- Single-family
- Hotel / motel
- Assisted Living
- Student Housing
- Beam and sloped ceilings

Custom paint options available

We offer custom paint cover plates for sprinklers with this icon.
Learn more at www.tyco-fire.com/custompaint.



Rapid Response® Sprinklers

LFII

Pendent & Recessed Pendent



K Factor	K=4.9 (70,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	155°F/68°C, 175°F/79°C
Escutcheon	Style 20
Sprinkler Finish	Pure White, Signal White, Chrome Plated, Natural Brass
SIN	TY2234
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP400

3 mm bulb type ■ Approved for special applications with beamed ceilings

Intended for use in wet & dry pipe scenarios:

- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

Pendent & Recessed Pendent



K Factor	K=5.8 (83,5)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	155°F/68°C, 175°F/79°C
Escutcheon	Style 20
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass, Jet Black
SIN	TY3934
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP401

3 mm bulb type

Intended for use in these wet pipe scenarios:

- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

Rapid Response® Sprinklers

LFII

Pendent & Recessed Pendent



K Factor	K=3.0 (43,2)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	155°F/68°C, 175°F/79°C
Escutcheon	Style 20
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY1234
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP402

3 mm bulb type ■ Decorative, fast response, frangible bulb sprinklers designed for use in residential occupancies such as homes, apartments, dormitories, and hotels.

Intended for use in these wet pipe scenarios:

- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

Horizontal & Recessed Horizontal Sidewall



K Factor	K=4.4 (63,4)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	155°F/68°C, 175°F/79°C
Escutcheon	Style 20
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY2334
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP412

3 mm bulb type

Intended for use in these wet pipe scenarios:

- residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- sprinkler systems for the residential portions of any occupancy per NFPA 13

Rapid Response® Sprinklers

LFII

Horizontal & Recessed Horizontal Sidewall



K Factor	K=4.2 (60,5)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC, NSF/ANSI 61
Temperature	155°F/68°C, 175°F/79°C
Escutcheon	Style 20
Sprinkler Finish	Pure White, Signal White, Chrome Plated, Natural Brass
SIN	TY1334
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP410

3 mm bulb type ■ Approved for special applications with beamed ceilings

Intended for use in the following scenarios:

- wet and dry pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet and dry pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet and dry pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

Flat Plate Concealed Pendent



K Factor	K=4.9 (70,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC, NSF/ANSI 61
Temperature	160°F/71°C - Sprinkler, 139°F/59°C - Cover Plate 212°F/100°C - Sprinkler, 165°F/74°C - Cover Plate
Cover Plate Finish	Ivory, Beige, Pure White, Signal White, Grey White, Brown, Black, Brushed Brass, Brushed Chrome, Custom
SIN	TY3596
Wrench Type	W-TYPE 18
Tech Data Sheet	TFP442

Solder type ■ Provides 1/2" (12,7 mm) vertical adjustment. This adjustment provides flexibility when cutting fixed sprinkler drops ■ Cover plate conceals sprinkler components above the ceiling

Intended for use in the following scenarios:

- wet and dry pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet and dry pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet and dry pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

Rapid Response® Sprinklers

LFII

Domed Plate Concealed Pendent



K Factor	K=4.9 (70,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C - Sprinkler, 139°F/59°C - Cover Plate
Cover Plate Finish	Pure White, Signal White, Chrome, Custom
SIN	TY2234
Wrench Type	W-TYPE 7
Tech Data Sheet	TFP450

3 mm bulb type ■ Can be used for horizontal and sloped ceilings ■ Cover plate conceals sprinkler components above the ceiling

Intended for use in the following scenarios:

- wet and dry pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet and dry pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet and dry pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

LFII

Cover Plate & Protective Cap Utility Tool for Concealed Sprinklers



Used with the following Sprinklers	TY2524, TY3531, TY3532, TY3551, TY3596
Tech Data Sheet	Tyco for details

Install and remove cover plates for LFII, RFII, and RFIII concealed sprinklers ■ Also used for removing protective caps before cover plate installation

Rapid Response® Sprinklers

LFII

Dry Type Recessed Pendant



K Factor	K=4.9 (70,6)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, NSF/ANSI 61
Temperature	155°F/68°C, 175°F/79°C (wet pipe only)
Escutcheon Finish	Signal White, Chrome Plated, Natural Brass
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY2235
Wrench Type	W-TYPE 7
Tech Data Sheet	TFP460

3 mm bulb type ■ Where sprinklers are required on dry pipe systems that are exposed to freezing temperatures, or where sprinklers are seasonally drained to avoid freezing ■ Offer the features of non-water filled pipe in addition to not having to increase the number of design sprinklers (hydraulic design area) for systems designed to NFPA 13, 13D, or 13R

Intended for use in the following residential sprinkler systems scenarios:

- one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- the residential portions of any occupancy per NFPA 13

Dry Type Recessed Horizontal Sidewall



K Factor	K=4.4 (63,4)
Thread Size	1" NPT or ISO 7-R1
Approvals	UL, NSF/ANSI 61
Temperature	155°F/68°C
Escutcheon Finish	Signal White, Chrome Plated, Natural Brass
Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
SIN	TY2335
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP461

3 mm bulb type ■ The Series LFII Dry Type Residential Horizontal Sidewall Sprinklers are typically used where sprinklers and/ or a portion of the connecting piping are exposed to freezing temperatures ■ Offer the features of non-water filled pipe in addition to not having to increase the number of design sprinklers (hydraulic design area) for systems designed to NFPA 13, 13D, or 13R

Intended for use in the following residential sprinkler systems scenarios:

- one/two-family dwellings and mobile homes per NFPA 13D
- residential occupancies up to and including four stories in height per NFPA 13R
- the residential portions of any occupancy per NFPA 13

Rapid Response® Sprinklers

LFII • NFPA 13 Optimized Sprinklers

The large orifice 6.9 K, 5.8 K and 5.6 K sprinklers are primarily intended for residential use where there is a 0.1 gpm/sq. ft. density NFPA 13 design requirement, and are generally used for installations in excess of four stories. They are optimized for residential applications where this higher water-flow demand is required, and can meet those requirements with less pressure and smaller pipe sizes.

Pendent, Recessed Pendent & Domed Concealed

	K Factor	K=6.9 (99,4)
	Thread Size	3/4" NPT
	Approvals	UL, C-UL, FM, NYC, NSF/ANSI 61
	Temperature	155°F/68°C, 175°F/79°C, 139°F/59°C – Cover Plate
	Escutcheon	Style 30
	Escutcheon & Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
	Cover Plate Finish	Grey White, Pure White, Signal White, Chrome, Custom
	SIN	TY4234
	Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
	Tech Data Sheet	TFP408

3 mm bulb type

Intended for use in the following scenarios:

- wet pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

Horizontal & Recessed Horizontal Sidewall Sprinklers

	K Factor	K=5.8 (83,5)
	Thread Size	1/2" NPT
	Approvals	UL, C-UL, FM, NSF/ANSI 61
	Temperature	155°F/68°C, 175°F/79°C
	Escutcheon	Style 20
	Sprinkler Finish	Signal White, Chrome Plated, Natural Brass
	SIN	TY4334
	Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
	Tech Data Sheet	TFP417

3 mm bulb type ■ Can be used for horizontal and sloped ceilings

Intended for use in the following scenarios:

- wet pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

Rapid Response® Sprinklers

LFII • NFPA 13 Optimized Sprinklers

The large orifice 6.9 K, 5.8 K and 5.6 K sprinklers are primarily intended for residential use where there is a 0.1 gpm/sq. ft. density NFPA 13 design requirement, and are generally used for installations in excess of four stories. They are optimized for residential applications where this higher water-flow demand is required, and can meet those requirements with less pressure and smaller pipe sizes.

Horizontal & Recessed Horizontal Sidewall Sprinklers



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NSF/ANSI 61
Temperature	155°F/68°C, 175°F/79°C
Escutcheon	Style 20
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
SIN	TY3334
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP415

3 mm bulb type ■ Can be used for horizontal and sloped ceilings

Intended for use in the following scenarios:

- wet pipe residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
- wet pipe residential occupancies up to and including four stories in height per NFPA 13R
- wet pipe sprinkler systems for the residential portions of any occupancy per NFPA 13

RCP-1

Residential Control Panel



Size Range	1" or 1½" (DN25 or DN40)
Approvals	UL Listed
Maximum Water Pressure	300 psi (20,7 bar)
Air Pressure	10 psi (0,7 bar) to 65 psi (4,5 bar)
System	For use in residential dry pipe fire protection systems
Tech Data Sheet	TFP480

Model RCP-1 Residential Control Panel is an integrated valve manifold, air pressure, and electronic control package for controlling the release of water into residential dry pipe sprinkler systems ■ Pre-wired assembly containing pre-programmed control panel, system performance gauges, and an enclosed compressor ■ Supervised system valve system ■ Pre-engineered riser design ■ 48-hour battery backup



Dry Sprinklers

Specifically designed for areas where sprinklers may be subjected to freezing conditions.

- Unheated Warehouses
- Covered Exterior Platforms
- Loading Docks

Dry Sprinklers

DS-1

Pendent, Upright & Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	Upright=UL, C-UL, FM, NYC, CE Pendent & HSW= UL, C-UL,CE, FM, NYC, LPCB, VdS
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY3255, TY3155, TY3355
Wrench Type	W-Type 7
Tech Data Sheet	TFP500

Standard coverage ■ All hazards (light hazards, horizontal sidewall) ■ 5 mm bulb ■ Lengths up to 48" (1220 mm) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates ■ Designed for use in applications requiring dry sprinklers, or where building construction or aesthetic considerations make the installation of dry horizontal sidewall sprinklers more desirable than the dry pendent type

Pendent, Upright & Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	3/4" or 1" NPT (Std. Order) ISO 7-R1
Approvals	3/4"= UL, C-UL 1"= UL, C-UL, FM, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY3235, TY3135, TY3335 TY3935, TY3735
Wrench Type	W-Type 7
Tech Data Sheet	TFP510

Light hazard/Ordinary hazard ■ 3 mm bulb ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates ■ Designed for use in applications requiring dry sprinklers, or where building construction or aesthetic considerations make the installation of dry horizontal sidewall sprinklers more desirable than the dry pendent type

Dry Sprinklers

DS-1

Extended Coverage Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	135°F/57°C, 155°F/68°C
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY3338, TY3358
Wrench Type	W-Type 7
Tech Data Sheet	TFP520

EC light hazard ■ 3mm and 5mm Glass Bulb ■ Lengths up to 48" (1220 mm) ■ Designed for use in light hazard occupancy applications requiring a dry sprinkler to cover areas up to: 16' x 20' (4,9 m x 6,1 m) or 18' x 16' (5,5 m x 4,9 m) ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates

DS-1 Stainless Steel

Pendent



K Factor	K=5.6 (80,6)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL, LPCB, CE
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Escutcheon Finish	Stainless Steel
Sprinkler Finish	Stainless Steel
SIN	TY3230, TY3250
Wrench Type	W-Type 7
Tech Data Sheet	TFP560

3mm and 5mm Glass Bulb ■ Quick and Standard Response ■ The stainless-steel construction of these sprinklers extends the life of a sprinkler beyond that of traditional copper alloy sprinklers exposed to corrosive atmospheres ■ Wet-pipe, dry-pipe, or preaction installations ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates.

Dry Sprinklers

DS-1 Stainless Steel

Horizontal Sidewall, and Extended Coverage Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Escutcheon Finish	Stainless Steel
Sprinkler Finish	Stainless Steel
SIN	TY3337, TY3357, TY3339
Wrench Type	W-Type 7
Tech Data Sheet	TFP560

3mm and 5mm Glass Bulb ■ Quick and Standard Response ■ The stainless-steel construction of these sprinklers extends the life of a sprinkler beyond that of traditional copper alloy sprinklers exposed to corrosive atmospheres ■ Wet-pipe, dry-pipe, or preaction installations ■ Extended coverages protecting areas up to 16' x 20'' (4,9 x 6,1m) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates.

DS-2

Pendent



K Factor	K=11.2 (161,3)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5255, TY5235
Wrench Type	W-Type 17
Tech Data Sheet	TFP530

Standard coverage ■ All hazard (standard response) ■ Light hazard/Ordinary hazard (quick response) ■ 3 mm and 5 mm bulb ■ Extra large orifice ■ Lengths to 48" (1220 mm) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the sprinkler assembly until the sprinkler operates

Dry Sprinklers

DS-2

Extended Coverage Pendant



K Factor	K=11.2 (161,3)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5238
Wrench Type	W-Type 17
Tech Data Sheet	TFP540

EC light hazard & ordinary hazard ■ 3 mm bulb ■ Extra large orifice ■ Lengths to 48" (1220 mm) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the assembly until the sprinkler operates

DS-C

Concealed Pendant



K Factor	K=5.6 (80,6)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C - Sprinkler, 139°F/59°C - Cover Plate, 200°F/93°C - Sprinkler, 165°F/74°C - Cover Plate
Cover Plate Finish	Grey White, Brass, Pure White, Signal White, Jet Black, Chrome, Custom
SIN	TY3535, TY3555
Wrench Type	RFII
Tech Data Sheet	TFP515

Standard coverage ■ All hazard (standard response) ■ Light hazard/ordinary hazard (quick response) ■ 3 mm and 5 mm bulb ■ Lengths to 48" (1220 mm) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the sprinkler assembly until the sprinkler operates.

Dry Sprinklers

DS-ECC

Extended Coverage Concealed Pendent



K Factor	K=5.6 (80,6)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C – Sprinkler, 139°F/59°C – Cover Plate, 200°F/93°C – Sprinkler, 165°F/74°C – Cover Plate
Cover Plate Finish	Grey White, Brass, Pure White, Signal White, Jet Black, Chrome, Custom
SIN	TY3539
Wrench Type	RFII
Tech Data Sheet	TFP518

EC light hazard/EC ordinary hazard ■ 3 mm bulb ■ Lengths to 48" (1220 mm) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Special assembly provides a seal at the main pipe to prevent water from entering the sprinkler assembly until the sprinkler operates

DS-3

Extended Coverage Horizontal Sidewall




K Factor	K=11.2 (161,3)
Thread Size	1" NPT (Standard Order) ISO 7-R1
Approvals	UL, C-UL, NYC
Temperature	155°F/68°C, 200°F/93°C
Escutcheon Finish	Signal White, Chrome Plated, Brass Plated
Sprinkler Finish	Natural Brass, Chrome Plated, Signal White
SIN	TY5339
Wrench Type	W-Type 8
Tech Data Sheet	TFP550

EC ordinary hazard ■ 3 mm bulb ■ Lengths to 48" (1220 mm) ■ Designed for use in applications where sprinklers and/or connecting piping may be exposed to freezing conditions, or the sprinkler system is seasonally drained ■ Ideal for Exterior Loading Docks and Covered Areas and can eliminate the need for dry or anti-freeze systems.

Dry Sprinklers

DSB-2

Dry Sprinkler Boot (For Use With TFP Dry Type Sprinklers)

	Includes	1 Boot, 2 Strap Ties, and 1/3 oz. of Adhesive (quantity of adhesive is sufficient for installing 1 Boot)
	Tech Data Sheet	TFP591

Helps to close the air gap created by the clearance hole through a wall or ceiling through which the dry type sprinkler has penetrated
 ■ Helps to stop the air exchange between the inside and outside of the freezer (or any other type of similar construction) to help prevent transfer of moist air into the freezer space

G5

DS-1 Dry Sprinkler Guards

	Approvals	UL
	Finish	Zinc Chromate
	Tech Data Sheet	TFP783

The TYCO Model G5 Sprinkler Guards are designed to be used in areas that make the sprinklers susceptible to mechanical or physical damage
 ■ For use with Series DS-1 Dry Sprinklers standard, deep and no escutcheons



Special Application Sprinklers

Intended for specific applications such as combustible concealed spaces and areas subject to corrosion.

- Attic Spaces
- Corrosive Environments
- High Security Institutions
- Window Protection

Special Application Sprinklers

Attic

BB (Back-to-Back), SD (Single Directional), HIP, & AP (Attic Plus)



Back-To-Back



Hip



Single Directional

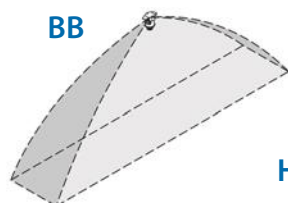
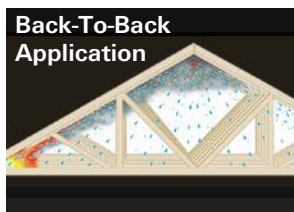


Attic Plus (AP)

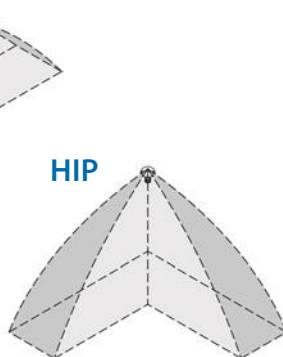
K Factor	K=4.2 (60,5), K=5.6 (80,6), K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL
Temperature	200°F/93°C for BB (K4.2 and K8.0), HIP, AP 212°F/100°C for BB (K5.6), SD
Sprinkler Finish	Natural Brass
SIN	TY4180, TY4181, TY4182 TY3180, TY3181, TY3182 TY2180, TY2181, TY2182 TY3183, TY3184, TY3185 TY3187, TY3190, TY2190
Wrench Type	W-TYPE 3, W-TYPE 6, W-TYPE 20
Tech Data Sheet	TFP610

"Specific Application Sprinklers for Protecting Attics" ■ 3 mm bulb or solder type
 ■ Wet or dry pipe systems ■ Provides a tested method of protecting an attic ■
 Provides a specific cost advantage by reducing the amount of piping required ■
 Cover attics to 60'-0" wide with a single line of piping, eliminating the need for as
 many as five branch lines ■ Saves up to 80% of the piping that would be required
 with standard sprinklers while providing a higher level of protection.

Spray Patterns



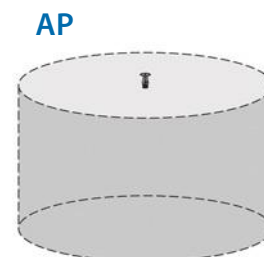
BB



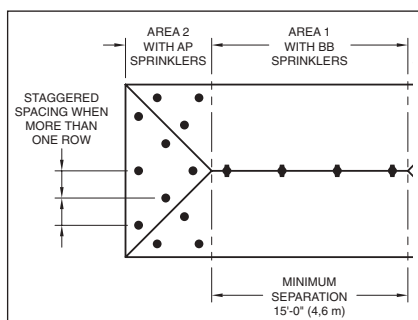
HIP



SD



AP



Special Application Sprinklers

RAVEN Studio Sprinkler

Pendent & Horizontal Sidewall Sprinklers



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Temperature	165°F/74°C
Sprinkler Finish	White, Grey, Custom
Escutcheon Finish	White, Grey, Chrome/Electropolish, Custom, Primed White or Grey (for paint-in-place)
SIN	Standard Coverage: TY1281 - Pendent, TY1381 - HSW Extended Coverage: TY1282 - Pendent, TY1382 - HSW
Wrench Type	W-Type 25
Tech Data Sheet	TFP658

TYCO RAVEN Studio Sprinklers 5.6K Pendent and Horizontal Sidewall (HSW) Quick Response, Standard Coverage for Light and Ordinary Hazard applications and Extended Coverage for Light Hazard applications only, are intended for use in areas as designed per NFPA 13 ■ The flush design is made aesthetically appealing by concealing the deflector and other operating parts behind the link assembly. ■ Additionally, RAVEN Studio is the only sprinkler UL Listed with a paint-in-place escutcheon. Both the sprinkler and escutcheon are also available in a range of factory-painted custom colors.

RAVEN

Institutional Pendent & Horizontal Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Temperature	165°F/74°C
Escutcheon Material	Carbon Steel, or Stainless Steel
Escutcheon Finish	Grey, Chrome, White, or Electropolished (SS only)
Sprinkler Finish	Grey or White
SIN	TY3281, TY3282, TY3381, TY3382
Wrench Type	W-Type 25
Tech Data Sheet	TFP651

Quick Response ■ Standard and Extended Coverage ■ Designed for use in areas such as correctional, detention, and mental health care facilities as well as other commercial buildings ■ Both the pendent and horizontal sidewall styles are available for standard or extended coverage applications ■ Tamper-resistant features ■ 175 psi (12,1 bar).

Special Application Sprinklers

TFP PH2

Institutional Pendent Sprinklers



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC
Temperature	165°F/74°C, 212°F/100°C
Sprinkler Finish	Chrome Plated
Escutcheon Finish	Chrome Plated
SIN	TY3290
Wrench Type	Model 1509-3
Tech Data Sheet	TFP650

The Tyco Model TFP PH2, 5.6 K-factor, Institutional Pendent Sprinklers are standard response standard coverage, fusible solder type spray sprinklers designed for use in areas such as correctional, detention, and mental health care facilities. ■ The unique features of the Model TFP PH2 provide a tamper resistant sprinkler design that helps eliminate the opportunity for individuals to injure themselves or others with the components of a fire sprinkler. ■ At the same time, the Model TFP PH2 optimizes an aesthetically appealing flush design that conceals most of the operating parts.

TFP PH5

Institutional Horizontal Sidewall Sprinklers



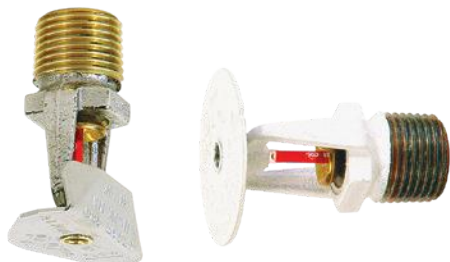
K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, NYC
Temperature	165°F/74°C
Sprinkler Finish	Chrome Plated
Escutcheon Finish	Chrome Plated
SIN	TY3390
Wrench Type	Model 1509-3
Tech Data Sheet	TFP650

The Tyco Model TFP PH5, 5.6 K-factor, Institutional Horizontal Sidewall Sprinklers are standard-response, standard-coverage spray sprinklers designed for use in areas such as correctional, detention, and mental health care facilities. ■ The unique features of the Model TFP PH5 provide a tamper-resistant sprinkler design that helps eliminate the opportunity for individuals to injure themselves or others with components of a fire sprinkler. ■ The Model TFP PH5 optimizes an aesthetically appealing flush design that conceals most of the operating parts.

Special Application Sprinklers

WS™

Window Sprinklers, Horizontal & Pendent Vertical Sidewall



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, ULC, NYC, ICC
Temperature	155°F/68°C, 200°F/93°C
Sprinkler Finish	Signal White Polyester, Chrome Plated, Natural Brass, Jet Black
SIN	TY3388, TY3488
Wrench Type	W-Type 20
Tech Data Sheet	TFP620

3 mm bulb ■ Only UL tested sprinklers that can protect glazing in a wall or window and allow it to maintain its mechanical equivalent rating up to two hours ■ First sprinklers to be UL/C-UL Listed, ICC-ES, and ULC Listed & Approved for maintaining a rated assembly ■ Pendent allows installation farther away from the glass than the sidewall ■ Sidewall permits the window mullion to act as a baffle, allowing the sprinklers to be spaced closely together, if necessary ■ Provides the only UL tested option when seeking wall fire ratings when using heat strengthened, tempered, or ceramic glass.

CC1

Combustible Concealed Space Sprinklers™, Upright



K Factor	K=2.8 (40,3)
Thread Size	1/2" NPT
Approvals	UL
Temperature	175°F/79°C
Sprinkler Finish	Natural Brass
SIN	TY1189
Wrench Type	W-Type 20
Tech Data Sheet	TFP630

3 mm bulb ■ Sprinklers are fast response, specific application sprinklers designed to provide protection of light hazard combustible, as well as non-combustible, concealed spaces ■ Meets NFPA® Requirements for Specialty Listed Sprinklers in Combustible Concealed Spaces ■ Allows the use of BlazeMaster® CPVC pipe with the benefit of superior sprinkler protection for Wood truss spaces.

Special Application Sprinklers

CC2

Combustible Concealed Space Sprinklers™, Upright



K Factor	K=4.2 (60,5), K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL
Temperature	175°F/79°C
Sprinkler Finish	Natural Brass
SIN	TY2189, TY3189
Wrench Type	W-Type 6
Tech Data Sheet	TFP632

3 mm bulb ■ Specific application sprinklers ■ Provides protection of specific light hazard combustible, as well as non-combustible, concealed spaces requiring sprinkler protection ■ The CC2 Sprinklers comply with the criterion for the protection of combustible concealed spaces as described in NFPA 13 ■ Allows the use of BlazeMaster® CPVC pipe in combustible concealed areas with the benefit of superior sprinkler protection for Wood truss spaces ■ Can be used on steel dry pipe sprinkler systems ■ Increased spacing from 10 ft. (3,1 m) to 12 ft. (3,7 m) ■ Increased coverage area from 100 ft² (9,3 m²) to 144 ft² (13,4 m²)

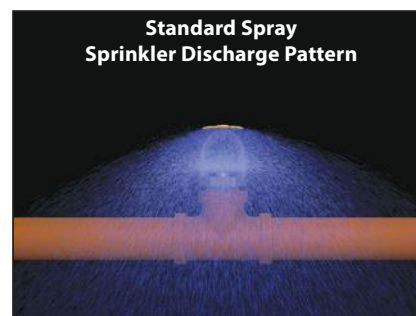
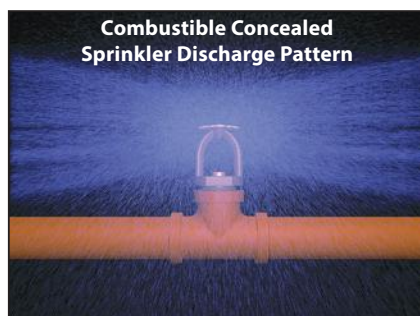
CC3

Combustible Concealed Space Sprinklers™, Upright



K Factor	K=4.2 (60,5), K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL
Temperature	200°F/93°C
Sprinkler Finish	Natural Brass
SIN	TY2199, TY3199
Wrench Type	W-Type 6
Tech Data Sheet	TFP633

3 mm bulb ■ The CC3 Combustible Concealed Sprinklers are quick response, upright, specific application sprinklers designed to provide protection of specific light hazard combustible, as well as non-combustible, concealed spaces requiring protection ■ The Model CC3 Sprinklers comply with the criteria for the protection of combustible concealed spaces as described in NFPA 13 ■ The Model CC3 are designed for installation on BlazeMaster CPVC wet pipe systems and steel wet pipe or dry pipe sprinkler systems.



Special Application Sprinklers

Issue D Quartzoid®

High Temperature, Upright & Pendent



K Factor	K=5.6 (80,6), K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, FM, LPCB
Temperature	400°F/204°C, 500°F/260°C, 650°F/343°C (K=5.6 only)
Sprinkler Finish	Natural Brass, Chrome Plated, Lead Coated
SIN	TY3191, TY3296, TY4191, TY4292
Wrench Type	W-Type 11
Tech Data Sheet	TFP690

Standard coverage ■ All hazard ■ 11 mm bulb ■ Extra-high and ultra-high temperature ratings and corrosion resistant coatings ■ Temperature Ratings to 650°F (343°C) available.

TY-B

Conventional (Old Style)



K Factor	K=5.6 (80,6) , K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, LPCB, VdS, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Wax Coated, Lead Coated, Wax Over Lead Coated
SIN	TY3651, TY4651
Wrench Type	W-Type 6
Tech Data Sheet	TFP661

Ordinary and Extra High Hazard ■ 5 mm bulb ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards. ■ The NFPA permits the use of "Old Style Sprinklers" where special construction features require a unique water distribution.

Special Application Sprinklers

TY-B

Conventional (Old Style)



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, VdS, LPCB (TY3650 Only)
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black
SIN	TY365, TY3650
Wrench Type	W-Type 6
Tech Data Sheet	TFP662

Ordinary and Extra High Hazard ■ 5 mm bulb ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards.

TY-FRB

Conventional (Old Style)



K Factor	K=5.6 (80,6) , K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, LPCB, VdS, NYC
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White, Jet Black
SIN	TY3631, TY4631
Wrench Type	W-Type 6
Tech Data Sheet	TFP666

Ordinary and Extra High Hazard ■ 3 mm bulb ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards.

Special Application Sprinklers

TY-FRB

Conventional (Old Style)



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, VdS, LPCB (TY3630 Only)
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C
Sprinkler Finish	Natural Brass, Chrome Plated, Pure White, Signal White
SIN	TY363, TY3630
Wrench Type	W-Type 6
Tech Data Sheet	TFP667

Ordinary and Extra High Hazard ■ The TYCO Series TY-FRB, Conventional Sprinklers, are quick response, standard coverage, decorative 3 mm glass bulb type spray sprinklers ■ These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards.

FTR-1

Fixed Temperature Release



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C
Sprinkler Finish	Natural Brass, White Polyester Coated, Gray Teflon® Coated
SIN	TY3030
Wrench Type	W-Type 6
Tech Data Sheet	TFP1388

3 mm bulb ■ Fixed-temperature, heat detector intended for wet or dry pilot release service ■ Maximum 40 ft. x 40 ft. spacing ■ Can be used for pilot line service, instead of standard sprinklers, to activate deluge and preaction systems equipped with either wet or dry pilot line detection ■ Corrosion resistant assembly option for outdoor applications (Teflon® coated)

Special Application Sprinklers

TY-B & TY-FRB (Alternate Materials Of Construction)

Upright & Pendent Sprinklers



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, LPCB, Lloyds
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Escutcheon Style	Style 10 • Style 40
Sprinkler Finish	Stainless Steel, SMO, Titanium
SIN	Refer to Tech Data Sheet for SIN Numbers
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP680

TY-B: 5 mm diameter heat sensitive glass bulb, standard response ■ TY-FRB: 3 mm diameter heat sensitive glass bulb, quick response
 ■ Corrosion resistant, standard coverage spray sprinklers designed for use in commercial occupancies where corrosive atmospheres may exist ■ Alternate materials of construction (Stainless Steel, SMO, or Titanium) are utilized to extend the life of a sprinkler beyond that which might be expected of copper alloy sprinklers exposed to corrosive atmospheres, (SMO = stainless-molybdenum alloyed)

Vertical, Horizontal & Recessed Horizontal Sidewall Sprinklers



K Factor	K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, LPCB
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Escutcheon Style	Style 10
Sprinkler Finish	Stainless Steel, SMO, Titanium
SIN	Refer to Tech Data Sheet for SIN Numbers
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP680

TY-B: 5 mm diameter heat sensitive glass bulb, standard response ■ TY-FRB: 3 mm diameter heat sensitive glass bulb, quick response
 ■ Corrosion resistant, standard coverage spray sprinklers designed for use in commercial occupancies where corrosive atmospheres may exist ■ Alternate materials of construction (Stainless Steel, SMO, or Titanium) are utilized to extend the life of a sprinkler beyond that which might be expected of copper alloy sprinklers exposed to corrosive atmospheres (SMO = stainless-molybdenum alloyed)

Special Application Sprinklers

TY-B & TY-FRB (Poly-Stainless)

Upright, Pendent & Horizontal Sidewall Sprinklers



K Factor	K=5.6 (80,6) • K=8.0 (115,2)
Thread Size	1/2" NPT • 3/4" NPT
Approvals	UL, C-UL, LPCB, Lloyds
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C, 286°F/141°C, 360°F/182°C
Escutcheon Style	Style 10 • Style 40
Sprinkler Finish	Poly-Stainless
SIN	Refer to Tech Data Sheet for SIN Numbers
Wrench Type	W-TYPE 6, W-Type 7 (For recessed escutcheons)
Tech Data Sheet	TFP682

TY-B: 5 mm diameter heat sensitive glass bulb, standard response ■ TY-FRB: 3 mm diameter heat sensitive glass bulb, quick response ■ Corrosion resistant, standard coverage spray sprinklers designed for use in commercial occupancies where corrosive atmospheres may exist ■ Corrosive environments can wreak havoc on standard sprinkler heads. The TYCO Poly-Stainless sprinklers are here to maintain the aesthetics of a sprinkler in a wide range of corrosive locations.



Sprinkler Accessories

For use with the sprinklers and nozzles described in this catalog.

- Improve Appearance
- Conceal Clearance Holes
- Protection From Damage
- Onsite Emergency Storage Supply

Sprinkler Accessories


Escutcheon Plates

Recessed Escutcheons and Protective Paint Caps

	Thread Size	1/2" NPT - Styles 10, 15, 20, & 50 3/8" NPT - Styles 70 3/4" NPT - Styles 30, & 40
	Escutcheon Styles	Styles 10, 15, 20, 30, 40, 50, & 70
	Finishes	Pure White, Signal White, Jet Black, Chrome Plated, Brass Plated, Plain
	Tech Data Sheet	TFP770

Consists of a mounting plate and closure for finished appearance in ceilings or soffits ■ Intended for use in areas with finished ceilings or walls, and the adjustment provided by these escutcheons reduces the accuracy to which fixed piping to the sprinklers must be cut, while providing a decorative recessed sprinkler installation ■ Primarily designed for use with standard spray, quick response sprinklers and the Designer residential sidewall sprinklers ■ Maximum 1/2" to 3/4" adjustment

Style 65, One-Piece Flat Escutcheon
Style 401, Two-Piece Adjustable Escutcheon

 Style 65 Style 401	Thread Size	1/2" NPT · 3/4" NPT
	Escutcheon Styles	Styles 65, 401
	Finishes	Chrome, Signal White, or Brass
	Tech Data Sheet	TFP777

Used to improve the overall appearance of the sprinkler installation by concealing the clearance holes required for wall or ceiling installation ■ Deep, two-piece, adjustable ■ Available for 1/2" and 3/4" NPT

Sprinkler Accessories

Escutcheon Plates

Style 60, Two-Piece Flush Escutcheon



Thread Size	3/4" NPT
Approvals	UL, FM
Escutcheon Styles	Styles 60
Finishes	Chrome, Signal White, or Brass
Tech Data Sheet	TFP778

Used to improve the overall appearance of the sprinkler installation by concealing the clearance holes required for wall or ceiling installation ■ Deep, two-piece, adjustable ■ $\frac{3}{4}$ " total adjustment

Sprinkler Head Cabinet

3, 6 or 12 Capacity



Thread Size	1/2" NPT • 3/4" NPT • 1" NPT
Tech Data Sheet	TFP785

Provides storage for spare sprinklers and sprinkler wrench ■ Spare sprinklers facilitate the prompt replacement of operated or damaged sprinklers and return of fire protection system to service as soon as possible



Nozzle & Nozzle Accessories

Designed for use in a variety of special hazard application – may be required to provide a properly designed special hazard fire protection system.

- Flammable Liquid Ranks & Operations
- Flammable Liquid Storage
- Offshore Platforms
- Industrial Process Equipment
- Computer Rooms
- Clean Rooms

Nozzles and Accessories

D3

Protectospray Directional Spray Nozzle



K Factor	K=1.2 (17,3) to 7.2 (103,7)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Spray Angles	65°, 80°, 95°, 110°, 125°, 140°, 160°, and 180°
Nozzle Finish	Bronze: Natural Finish, Teflon Coated, Lead Coated, Chrome, or Natural Stainless Steel
Wrench Type	W-Type 11
Tech Data Sheet	TFP802, Blow-off Plugs TFP890

Designed for use in water spray fixed systems for fire protection applications ■ Open orifice type for use in deluge systems ■ Nozzles are external deflector types that discharge a uniformly filled cone of medium velocity water droplets ■ Blow-Off Plugs are available and designed for both indoor or outdoor use.

D3S

Protectospray Directional Spray Nozzle



K Factor	K=1.1 (15,8) to 2.8 (40,3)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Nozzle Finish	Bronze
Wrench Type	W-Type 11
Tech Data Sheet	TFP804

The D3S Nozzles that are typically used in non-NFPA installations feature an integral strainer for use when the Authority Having Jurisdiction requires the use of individual strainers ■ The D3S Nozzles are external deflector type nozzles that discharge a uniformly filled cone of medium velocity water droplets.

HV "High Velocity"

Directional Spray Nozzle



K Factor	K=1.6 (23,0) • K=1.8 (25,9) • K=2.8 (40,3) • K=4.6 (66,2) K=5.5 (79,2) • K=6.4 (92,2)
Thread Size	1" NPT 1-1/4" (only K=6.4)
Approvals	UL, C-UL, FM
Nozzle Finish	Natural Brass or Stainless Steel
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	TFP815

Open, directional spray nozzles ■ Designed for use in fixed water spray fire protection systems where a high velocity water application is needed, such as the protection of flammable liquids, electrical transformers, circuit breakers, oil-fired boilers and lube oil systems ■ Available in six different orifice sizes and six angle spray patterns ■ Produces a solid conical spray pattern

Nozzles and Accessories

EA-1

Automatic Protectospray Directional Spray Nozzle



K Factor	K=1.4 (20,2), K=2.8 (40,3), K=5.6 (80,6)
Thread Size	1/2" NPT
Approvals	UL, C-UL, FM
Temperature	135°F/57°C, 175°F/79°C, 250°F/121°C, 325°F/163°C, 400°F/204°C, 500°F/260°C
Spray Angles	65°, 80°, 95°, 110°, 125°, 140°, 160°, and 180°
Sprinkler Finish	Natural Finish Bronze, Lead Coated Bronze, Chrome Plated, Wax Coated Bronze
Wrench Type	W-TYPE 11
Tech Data Sheet	TFP800

Medium velocity, Bulb type frangible element for use in closed head systems ■ Discharges a filled cone of water droplets at relatively low velocity ■ The Type EA-1 Nozzles are also especially effective for area coverage and are sometimes used in lieu of standard sprinklers where directional spray is considered more appropriate.

TN-25

Horizontal Spray Nozzle, Open



K Factor	K=25.2 (362,9)
Thread Size	1" NPT or ISO 7-R 1
Approvals	UL, C-UL
Nozzle Finish	Natural Brass
Wrench Type	W-Type 1
Tech Data Sheet	TFP850

The TYCO Model TN-25 Horizontal Spray Nozzle is a specialized open nozzle for use in tunnel fire protection deluge systems, providing an improved alternative to traditional designs ■ Model TN-25 Nozzle allows for a single pipe to run the length of a tunnel, compared to traditional designs that use multiple pipes in order to provide sufficient coverage.

TN-17

Horizontal Spray Nozzle, Open



K Factor	K=16.8 (241,9)
Thread Size	3/4" NPT or ISO 7-R 3/4
Approvals	UL, C-UL
Nozzle Finish	Natural Brass
Wrench Type	W-Type 21
Tech Data Sheet	TFP852

The TYCO Model TN-17 Horizontal Spray Nozzle having a 16.8 (K240) K-factor is a specialized open nozzle for use in tunnel fire protection deluge systems, providing an improved alternative to traditional designs ■ With its ability to provide extended coverage, the Model TN-17 Nozzle allows for a single pipe to run the length of a tunnel, compared to traditional designs that use multiple pipes in order to provide sufficient coverage ■ The Model TN-17 Nozzle is an open nozzle designed to be integrated into a deluge fire protection system.

Nozzles and Accessories

D4a

Directional Spray Nozzles, Open, Medium Velocity



K Factor	K=1.2 (17,3) • K=1.8 (25,9) • K=2.3 (33,1) • K=3.0 (43,2) K=4.1 (59,0) • K=5.6 (80,6) • K=7.2 (103,7)
Thread Size	1/2" NPT
Approvals	UL, C-UL
Spray Angles	65°, 80°, 95°, 110°, 125°, 140°, 160°, and 180°
Nozzle Finish	Natural Finish Bronze, Teflon Coated Bronze
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	TFP806

Nozzles are external deflector types that discharge a uniformly filled cone of medium velocity water droplets ■ The Type D4a Nozzles feature a four arm body design that helps assist against mechanical or physical damage ■ Open orifice design type for use in deluge systems

AM4 AQUAMIST

Non-Automatic Open Type



K Factor	K=0.24 (3,5)
Thread Size	1/2" NPT
Nozzle Finish	Natural Stainless Steel
Wrench Type	W-Type 6
Tech Data Sheet	TFP2204

Open, directional mist nozzles ■ They are intermediate pressure nozzles which utilize a single fluid jet impinging on a diffuser to produce a spray having a range of water droplet sizes suitable for the extinguishment of Class B fires, as well as incidental Class A fires ■ Maximum utilization of water for flammable liquid fire protection.

AM10 and AM10B AQUAMIST

Non-Automatic Open Type



K Factor	K=0.24 (3,5)
Thread Size	1/2" NPT
Nozzle Finish	Stainless Steel
Wrench Type	W-Type 6
Tech Data Sheet	TFP2210

Open mist nozzles ■ Designed for use in water "low pressure" mist protection systems protecting flammable liquids and turbine bearings ■ Minimal water demand ■ Min. operating pressure is 170 psi (11,6 bar)

Nozzles and Accessories

AM24 AQUAMIST

Automatic Type Mist Nozzle



K Factor	4.7 lpm/bar 1/2, 0.33 gpm/psi 0.5
Thread Size	1/2" NPT
Approvals	UL
Temperature	135°F/57°C, 155°F/68°C, 175°F/79°C, 200°F/93°C
Sprinkler Finish	Natural Brass, Chrome Plated, White Polyester
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	Tyco for details

Listed and Approved for Marine Type Approved by Lloyds, USCG, DNV, American Bureau of Shipping, MCA, Germanischer Lloyd, Bureau Veritas ■ Intended Applications – IMO Mandated Local Application System for Protection of Class A Machinery Spaces ■ Nozzle pressure: 175-250 psi (12,1 to 17,2 bar)

F822 thru F834 Mulsifyre®

Directional Spray Nozzles, Open, High Velocity



K Factor	K=2.0 (28,8) • K=2.3 (33,1) • K=2.7 (38,9) K=2.6 (37,4) • K=4.6 (66,2) • K=5.1 (73,4)
Thread Size	3/4" NPT
Approvals	UL, ULC
Nozzle Finish	Brass
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	TFP810

Two configurations: basic Mulsifyre Nozzle & Mulsifyre Nozzle with Model F880 Dust Cap, ■ Available in six different models provide a wide range of orifice sizes and water distribution characteristics ■ Air aspirating foam-water nozzles, for use with all types of foam (required for Non-AFFF type foams) ■ Designed for use in water spray fixed systems for fire protection applications where a high velocity water application may be required, Pendent & upright designs, Open nozzle for use on deluge systems.

F822S thru F834S Mulsifyre®

Directional Spray Nozzles, Open, With Strainers, High Velocity



K Factor	K=2.0 (28,8) • K=2.3 (33,1) • K=2.7 (38,9) K=2.6 (37,4) • K=4.6 (66,2) • K=5.1 (73,4)
Thread Size	3/4" NPT
Approvals	FM
Nozzle Finish	Brass
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	TFP811

Two configurations: basic Mulsifyre Nozzle & Mulsifyre Nozzle with Model F880 Dust Cap, ■ Available in six different models provide a wide range of orifice sizes and water distribution characteristics ■ Air aspirating foam-water nozzles, for use with all types of foam (required for Non-AFFF type foams) ■ Designed for use in water spray fixed systems for fire protection applications where a high velocity water application may be required, Pendent & upright designs, Open nozzle for use on deluge systems.

Nozzles and Accessories

Cooling Tower Nozzle

Type 1 and 2



K Factor	K=2.9 (42,0)
Thread Size	3/4" NPT
Approvals	UL, FM
Nozzle Finish	Bronze or Stainless Steel
Wrench Type	W-Type 11
Tech Data Sheet	TFP830

Intended for use in fire protection systems for cross flow cooling towers with combustible fill sections ■ Open nozzle design for use in water spray deluge system ■ Installed under the distribution basin, they discharge water in a relatively narrow, elongated spray pattern ■ Type 1 has a waterway designed for use in towers with diffusion decks, Type 2 for those without diffusion decks

B-1

Upright & Pendent Foam-Water Sprinkler



K Factor	K=3.0 (43,2)
Thread Size	1/2" NPT
Approvals	UL, C-UL, Military
Nozzle Finish	Natural Bronze
Wrench Type	Common Adjustable Wrench
Tech Data Sheet	TFP840

Air aspirating foam-water nozzles ■ Pendent & upright styles ■ Open nozzle for use in NFPA 16 foam-water sprinkler systems

Nozzles and Accessories

Type DN-5

Corrosion Resistant Duct Nozzle, Open, Medium Velocity



K Factor	K=6.0 (86,5)
Thread Size	1/2" NPT
Approvals	FM
Nozzle Coating	HALAR (ECTFE)
Tech Data Sheet	TFP808

The TYCO Type DN-5 Corrosion Resistant Duct Nozzle is an open (non-automatic) directional spray nozzle designed for use in water spray fixed systems for fire protection applications in extremely corrosive duct environments. ■ It is an external deflector type nozzle that discharges medium velocity water droplets. ■ The Type DN-5 Corrosion Resistant Duct Nozzle is effective in discharging water to vertical, horizontal, curved, and irregular shaped surfaces within a duct to achieve fire suppression and potential extinguishment.

DDS Duct Deluge System

For The Protection of Ventilation Ductwork Handling Corrosive Gases



Approvals	FM
Corrosive Environments	<ul style="list-style-type: none"> - Steel Manufacturing, - Copper Mineral Processing, - Lead Mineral Processing, - Zinc Mineral Processing, - Coal Power Generation, - Semiconductor Fabrication, - Pulp & Paper Facilities
Tech Data Sheet	TFP870

The TYCO DDS Duct Deluge System is designed specifically for the protection of ventilation ductwork handling corrosive gases, including extremely corrosive gases as defined in FM Property Loss Prevention Data Sheet 7-78. ■ The DDS System features the TYCO DN-5 Corrosion Resistant Duct Nozzle, which is an open (non automatic) directional spray nozzle, and also includes the TYCO Red-E Cabinet, Protectowire linear heat detection, and FlexHead duct mounting hardware. ■ Ventilation ductwork handling extremely corrosive environments in industrial settings.

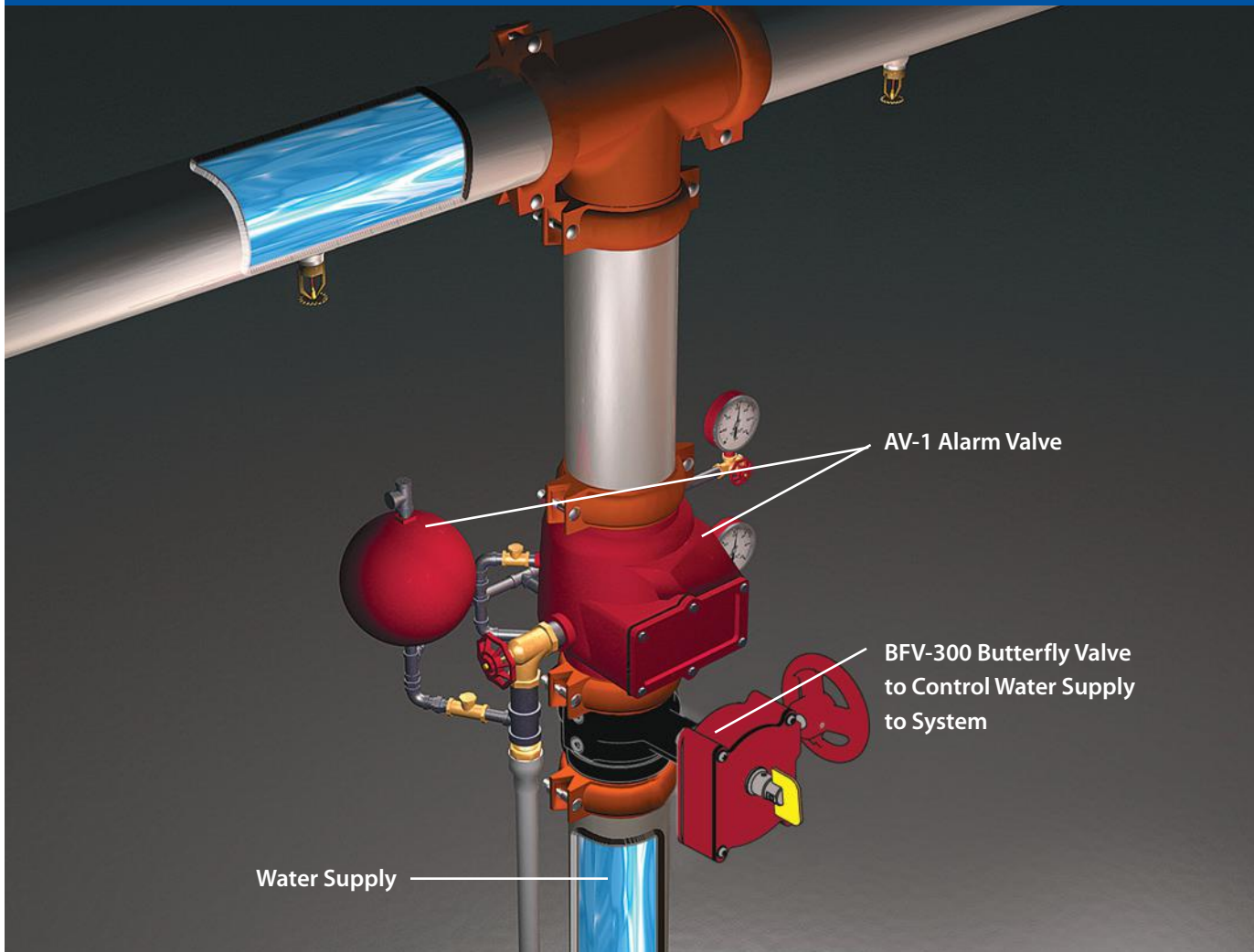


Wet Pipe Sprinkler Systems

Designed for use in wet pipe sprinkler systems.

- Heated Warehouses
- Factories
- Hospitals
- Shopping Centers
- Apartment or Condominium Complexes
- Single Family Residences

Wet System Valves & Devices



AV-1-300

Alarm Valve



Size Range	2½" thru 8" (DN65 thru DN200)
Approvals	UL, C-UL Listed & FM Approved
Working Water Pressure	20 to 300 psi (1,4 to 20,7 bar)
System	For use in wet pipe (automatic sprinkler) fire protection systems
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	TFP910

AV-1 Alarm Valves may be installed vertically or horizontally ■ Alarm Valves are divided seat ring, rubber-faced clapper, check type, water flow alarm valves ■ Automatically actuates electrically and/or hydraulically operated alarms when there is a steady flow equivalent to the discharge rate for one or more sprinklers ■ Optional Retard Chamber used in installations subject to variable pressure (generally associated with public water supplies) to help prevent false alarms ■ Available pre-assembled with modular trim to provide a quick and convenient method for trimming valve risers. Contact TFP for details

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Wet System Valves & Devices

RC-1

Retard Chamber



Approvals	UL, ULC, & FM for use with: Model AV-1-300 Alarm Check Valves UL, ULC, FM, VdS, & LPCB for use with the following Alarm Check Valves: Model AV-1-175, Gem Model F20/F200/F2001, Gem Model A, Star Model S30/S300/S3001
Maximum Working Pressure	300 psi (20,7 bar)
System	For use in a wet type automatic sprinkler system riser
Tech Data Sheet	TFP920

The Model RC-1 Retard Chamber is required in installations that will be subject to pressure variations, as are generally associated with public water supplies, in order to help prevent false alarms

CV-1FR

Riser Check Valve



Size Range	2" thru 12" (DN50 thru DN300)
Approvals	UL, C-UL Listed & FM Approved
Maximum Working Pressure	300 psi (20,7 bar)
System	For use in a wet type automatic sprinkler system riser
End Connection	Groove x Groove
Tech Data Sheet	TFP950

Can be installed using GRINNELL Grooved Couplings or GRINNELL Figure 71 Flange Adapters ■ Designed with a removable cover for ease of field maintenance ■ Standard seal is grade "E" EPDM

RM-1

Riser Manifolds



Size Range	NFPA 13 - 1-1/2" thru 6" (DN40 thru DN150) NFPA 13D - 1" (DN25) NFPA 13R - 1-1/2" thru 2" (DN40 thru DN50)
Approvals	UL, C-UL Listed & FM Approved Listed by California State Fire Marshall
Maximum Working Pressure	300 psi (20,7 bar)
System	For use in commercial or residential sprinkler systems
End Connection	Thread x Thread, Groove x Groove
Tech Data Sheet	TFP963

Riser Manifolds may be installed either horizontally or vertically orientation, for both single sprinkler rises and floor control in high-rises. ■ Optional Pressure Relief Kits feature a 175 psi pressure relief valve and trim components for convenient integration into commercial and residential riser manifold assemblies.

Wet System Valves & Devices

RSV-1

Residential Shutoff Valve



Size Range	NFPA 13D - 1" (DN25) NFPA 13R or NFPA 12D - 2" (DN50)
Approvals	UL, C-UL, & NSF-61
Maximum Working Pressure	175 psi (12,1 bar)
System	For use in residential sprinkler systems
End Connection	Thread x Thread
Tech Data Sheet	TFP980

During the design of a residential sprinkler system, domestic water use should be taken into consideration unless the domestic supply can be stopped when a sprinkler operates ■ When a sprinkler operates, water supply is automatically diverted from the domestic system to the sprinkler system ■ Eliminates the need for pumps, pressurized storage tanks, or electrically operated domestic shutoff valves ■ Valve automatically resets after the fire protection system is returned to normal service

Resi-Riser

Residential



Size Range	1" thru 2" (DN25 thru DN50)
Maximum Working Pressure	175 psi (12,1 bar)
System	For use in residential sprinkler systems
End Connection	Thread x Thread
Tech Data Sheet	Contact Tyco for details

Compact, pre-assembled, ready to install sprinkler riser ■ Brass construction for use in potable water supply ■ Integral test and drain assembly, flow switch with retard mechanism, 300 psi gauge, and check valve ■ Compact size allows for easy installation between 2" x 4" (50-100 mm) studs ■ Molded mounting points allow for fast and easy left or right hand installation ■ Available with or without pressure relief valve or flow switch retard mechanism features

WMA-1

Water Motor Alarm



Size Range	NFPA 13D - 1" (DN25) NFPA 13R or NFPA 12D - 2" (DN50)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	300 psi (20,7 bar)
System	For use in a wet type automatic sprinkler system riser
Tech Data Sheet	TFP921

Hydraulically operated outdoor alarm for use with appropriate fire protection system valves (alarm, dry, deluge) ■ Supplied by dedicated outlet in valve trim line or retard chamber ■ Uses energy-efficient lightweight impeller design capable of producing very high sound level ■ Corrosion-resistant aluminum alloy gong, gong-mount, and water motor housing ■ Furnished with approved 3/4" (20 mm) Y-strainer for use in alarm line

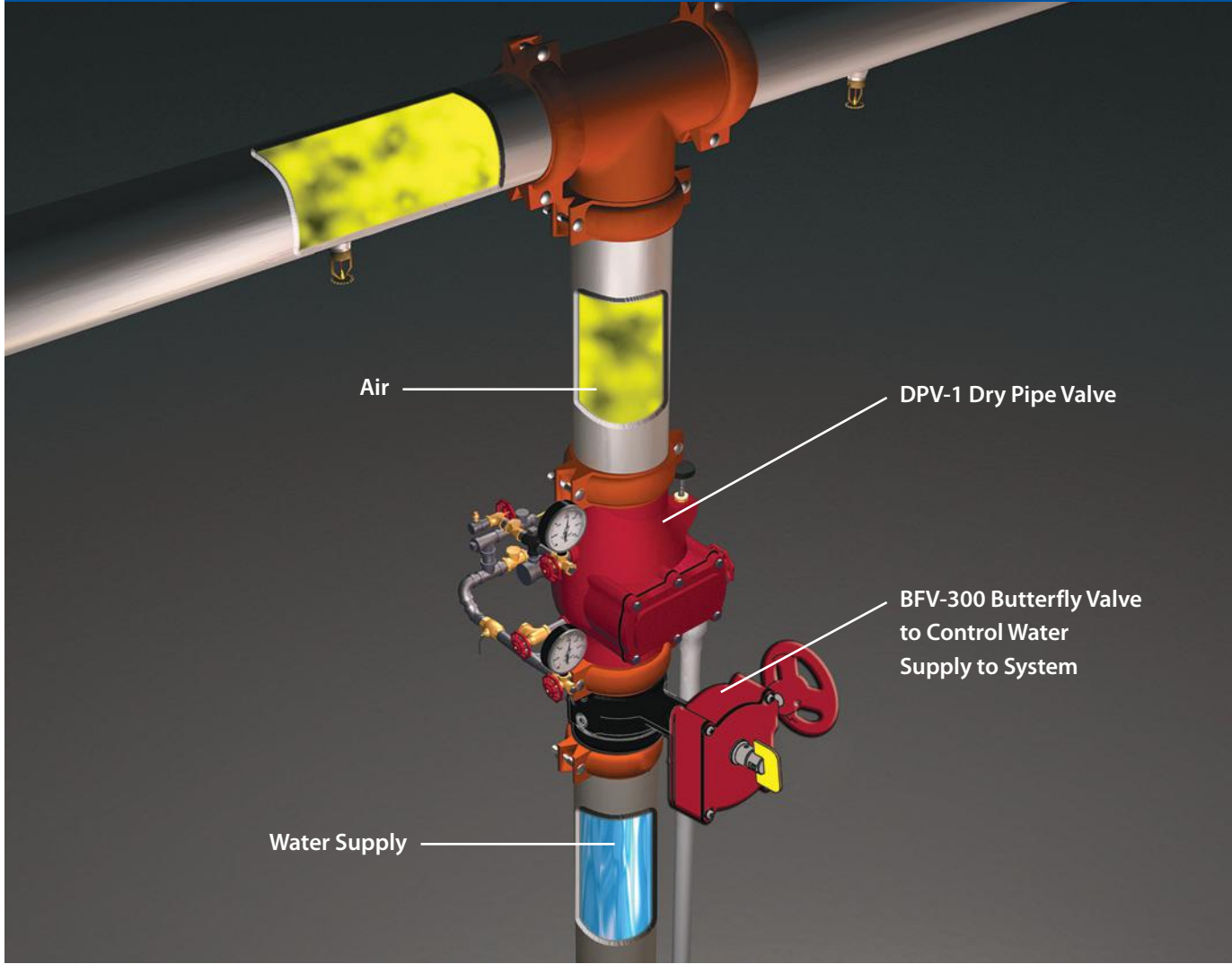


Dry Pipe Sprinkler Systems

Designed for use in dry pipe sprinkler systems where piping and sprinklers are subjected to freezing temperatures.

- Unheated Warehouses
- Attic Spaces
- Parking Garages
- Loading Docks
- Store Windows

Dry System Valves & Devices



DPV-1

Dry Pipe Valve



Size Range	2½" thru 6" (DN65 thru DN150)
Approvals	UL, C-UL Listed & FM Approved
Maximum Service Pressure	250 psi (17,2 bar)
System	For use in dry pipe fire protection systems
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	TFP1020

External reset differential dry pipe valves ■ Unique offset single clapper design enabling a simple compact valve to minimize installation labor ■ Used to supply sprinkler installations in which sprinklers are subjected to freezing conditions (40°F / 4°C or less) ■ Ductile iron construction to ensure a lightweight valve to minimize shipping cost. ■ Compact, Pre-Trimmed, and Semi-Assembled, easy to operate valve trim. ■ Simple reset procedure through the elimination of priming water.

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Dry System Valves & Devices

ACC-1

Dry Pipe Valve Accelerator



Approvals	UL, C-UL Listed & FM, LPCB Approved
Maximum Working Air Pressure	70 psi (4,8 bar)
System	For use in dry pipe fire protection systems
End Connection	Threaded
Tech Data Sheet	TFP1112

Model ACC-1 Accelerator reduces the time for valve operation following the operation of one or more automatic sprinklers. ■ Automatically adjusts to small or slow changes in system pressure but trips upon a rapid and steady drop in pressure ■ Designed to trip when system air pressure drops at a rate exceeding approximately 1 psi/minute (0.07 bar/min) ■ Upon tripping, it transmits system air pressure to the intermediate chamber of the dry pipe valve, which neutralizes the differential pressure holding the valve closed and opens the waterway clapper ■ Rated for use at a maximum water supply pressure of 250 psi (17,2 bar) and a maximum system air (or nitrogen) pressure of 70 psi (4,8 bar)

QRS

Electronic Accelerator



Approvals	UL Listed & FM Approved
Maximum Working Air Pressure	70 psi (4,8 bar)
System	For use in dry pipe fire protection systems
End Connection	Threaded
Tech Data Sheet	TFP1100

Quick opening device intended to reduce the time for dry pipe valve operation following the operation of one or more automatic sprinklers. ■ Automatically adjusts to both small and slow changes in system pressure, but trips with a steady drop in pressure (as in the case of sprinkler operation) ■ Can be used to retro-fit existing mechanical accelerators ■ Fully assembled package includes switch, solenoid, control panel, and accelerator trim pipe and fittings ■ Built-in low and high pressure alarm supervision ■ Proven electronic release technology as used for electrically operated deluge and preaction systems ■ Battery back-up in the event of primary power failure ■ Eliminates re-setting problems often incurred with traditional mechanical accelerators

VIZOR

Electronic Dry Pipe Accelerator



Approvals	UL, C-UL Listed & FM Approved
Max. Water Pressure	300 psi (20,7 bar)
Air Pressure	10 psi (0,7 bar) to 65 psi (4,5 bar)
System	For use in dry pipe fire protection systems
End Connection	Threaded
Tech Data Sheet	TFP1105

Direct mounting to the riser ■ Installation consistent with the installation of mechanical devices ■ Easy test-and-reset function, as compared to mechanical accelerators ■ Battery back-up in the event of primary power failure ■ Electronically self-supervising technology, similar to that used in typical alarm panels for alarm and detection systems ■ Built-in low-pressure and high pressure alarm supervision

Dry System Valves & Devices

AMD-1

Air Maintenance Device, Pressure Reducing Type



Approvals	UL, C-UL Listed & FM Approved & NYC Approved under MEA 206-02-E
Field-Adjustable Outlet Pressure Range	5 to 70 psi (0,4 to 4,8 bar)
Maximum Inlet Air Supply Pressure	200 psi (13,8 bar)
System	For use in dry pipe fire protection systems
Tech Data Sheet	TFP1221

Field adjustable ■ Used in systems where compressed air source is available ■ Used in systems in which the air supply is at a higher pressure than is desired for a sprinkler system or dry pilot line system

AMD-2

Air Maintenance Device, Compressor Control Type



Approvals	UL, C-UL Listed & FM Approved & NYC Approved under MEA 206-02-E
Field-Adjustable Pressures	Minimum Cut-In (On) 14 psi (1,0 bar) Maximum Cut-Out (Off) 60 psi (4,1 bar)
NEMA Rating	The housing of the Pressure Switch meets NEMA 1 requirements.
System	For use in dry pipe fire protection systems
Tech Data Sheet	TFP1231

Field adjustable ■ Used in conjunction with a small, non-tank-mounted air compressor ■ Monitors sprinkler system or dry pilot line detection for deluge system air pressure and automatically cycles the compressor to maintain system pressure within preset limits

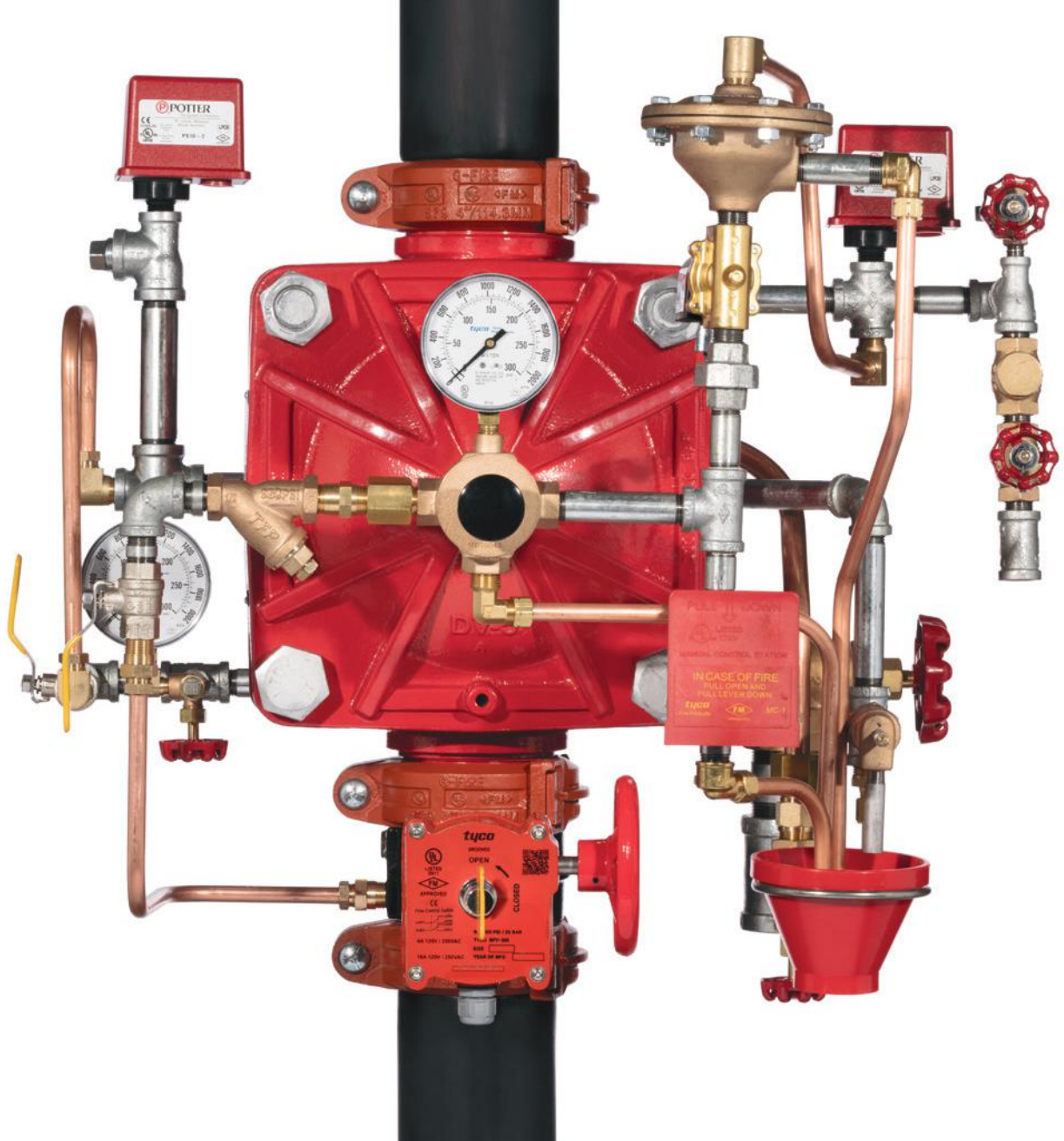
AMD-3

Nitrogen Maintenance Device, High Pressure (Cylinder) Reducing Type



Approvals	UL, C-UL Listed & FM Approved & NYC Approved under MEA 206-02-E
Field-Adjustable Outlet Pressures Range	4 to 60 psi (0,4 to 4,1 bar)
Maximum Inlet Nitrogen Supply Pressure	3000 psi (200 bar)
System	For use in dry pipe fire protection systems
Tech Data Sheet	TFP1241

Field adjustable ■ Used in conjunction with a cylinder of high pressure nitrogen to control the nitrogen pressure in a sprinkler system or a dry pilot line detection for deluge systems



Deluge & Preaction Systems

For use in deluge and preaction fire sprinkler systems.

- Aircraft Hangars
- Refrigerated Areas
- Flammable Liquid Handling
- High-Hazard Installations Using Water as Extinguishing Agent
- Archives
- Libraries

Deluge & Preaction Systems

DV-5A

Deluge Valve, External Resetting Diaphragm Style – 1½" thru 8"

The TYCO DV-5A Automatic Water Control Valves are diaphragm type valves that can be used in deluge fire protection systems. When properly trimmed, the double seat design of the DV-5A Valve also provides actuation of fire alarms upon system operation.

The diaphragm style design of the DV-5A Valve allows external resetting, providing for easy resetting of a deluge system without having to open a valve handhole cover to manually reposition a clapper and/or latch mechanism. Simply re-pressurizing the diaphragm chamber resets the valve.

The DV-5A features internal and external coating of the valve to provide corrosion resistance. The external corrosion resistance of the epoxy coating permits the use of the DV-5A in corrosive atmospheres associated with many types of industrial processing plants and outdoor installations.



Size Range	1½" thru 8" (DN40 thru DN200)
Approvals	UL, C-UL Listed & FM, VdS & LPCB Approved
Maximum Service Pressure	20 psi (1,4 bar) to 300 psi (20,7 bar)
Types of System	Deluge Systems: (TFP1306 & TFP1325) <ul style="list-style-type: none"> - Wet Pilot Actuation - Dry Pilot Actuation - Electric Actuation Single Interlock Preaction Systems: (TFP1425) <ul style="list-style-type: none"> - Wet Pilot Actuation - Dry Pilot Actuation - Electric Actuation Double Interlock Preaction Systems: (TFP1450) <ul style="list-style-type: none"> - Electric/Pneumatic Actuation - Electric/Electric Actuation
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	TFP1306

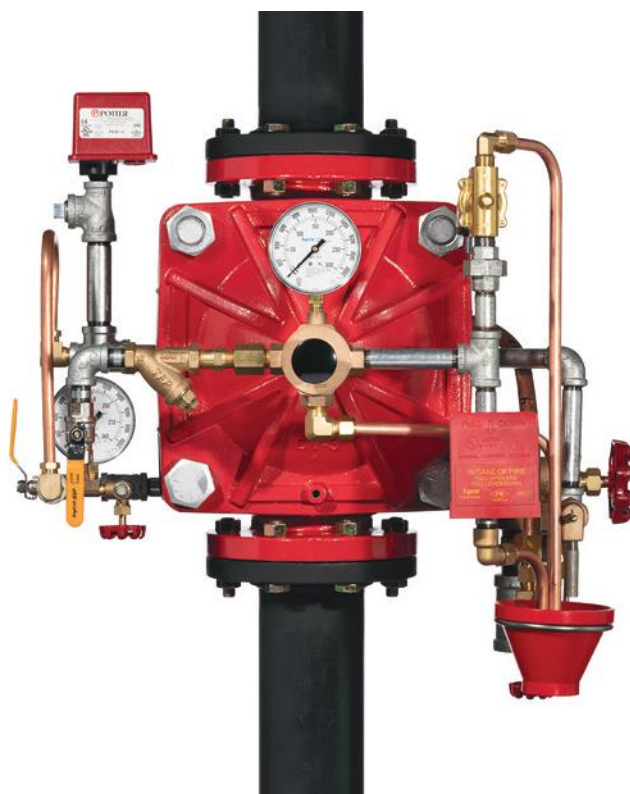
Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Available with deluge and single & double interlock preaction trim ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

Deluge & Preaction Systems

Deluge Systems

Wet Pilot, Dry Pilot, or Electric Actuation, Remote Resetting, or Remote Resetting Pressure Reducing

Deluge fire protection systems are normally used in special hazard installations where an entire area application of water or foam is required for protection. Applications may include flammable liquid handling and storage areas, aircraft hangars, and other high-hazard installations where water is the most effective extinguishing agent. Deluge systems employ open sprinklers or spray nozzles attached to a piping system. The system is connected to a water supply through the deluge valve. This valve is opened by the operation of a fire detection system installed in the same areas as the open sprinklers or nozzles. Deluge systems may be activated by wet or dry pilot sprinklers, or electric detectors. When the deluge valve opens, water flows into the piping system and discharges from all open sprinklers and nozzles.



(Electric Actuation Trim Shown)



(Remote Resetting Trim Shown)

DV-5A Size Range	1½" thru 8" (DN40 thru DN200)
Approvals	UL, C-UL Listed & FM, VdS & LPCB Approved
Maximum Service Pressure	Wet Pilot Actuation: 300 psi (20,7 bar) Dry Pilot Actuation: 250 psi (17,2 bar) Electric Actuation: Per Solenoid, see TFP2180
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	TFP1306 - DV-5A TFP1325 - DV-5A Remote Resetting TFP1326 - DV-5A Remote Resetting, Pressure Reducing

Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Available with deluge and single & double interlock preaction trim ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

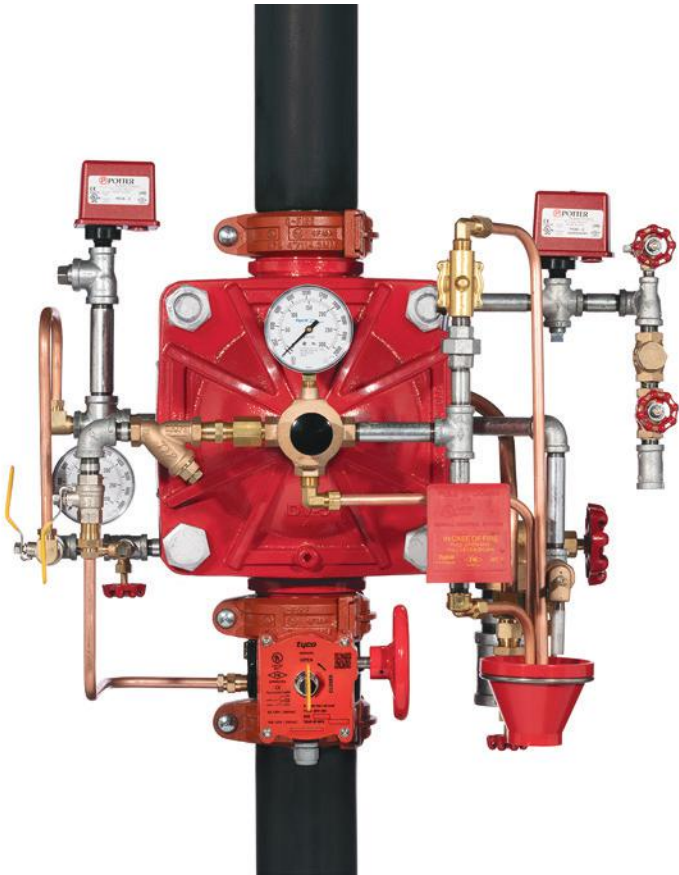
Deluge & Preaction Systems

Single Interlock Preaction Systems

Wet Pilot, Dry Pilot, or Electric Actuation

The DV-5A Supervised single interlock preaction systems are used to protect areas where there is danger of serious water damage that might result from damaged automatic sprinklers or piping. Typically, such areas include computer rooms, storage areas for valuable artifacts, libraries and archives. Also, preaction systems are effectively used to protect properties where a prealarm of a possible fire condition may allow time for fire extinguishment by alternate suppression means, prior to a sprinkler discharge. In the event the fire cannot be extinguished, the preaction sprinkler system will then perform as the primary fire protection system.

Single interlock preaction systems employ automatic sprinklers attached to a piping system containing 10 psi (0,7 bar) supervisory pressure, with a supplemental electric fire detection system installed in the same area as the sprinklers. Preaction systems with 10 psi (0,7 bar) supervisory pressure may also be activated by either wet or dry pilot sprinklers instead of electric detectors. Actuation of the fire detection system from a fire opens the deluge valve, allowing water to flow into the sprinkle piping system and to be discharged only from those sprinklers that have been operated by heat over the fire. Loss of supervisory pressure from the system piping as a result of damaged sprinklers or broken piping will activate a trouble alarm to indicate impairment of the system. The deluge valve will not open due to loss of supervisory pressure.



DV-5A Size Range	1½" thru 8" (DN40 thru DN200)
Approvals	UL, C-UL Listed & FM Approved
Maximum Service Pressure Preaction Single Interlock Trim	Wet Pilot Actuation: 300 psi (20,7 bar) Dry Pilot Actuation: 250 psi (17,2 bar) Electric Actuation: Per Solenoid, see TFP2180
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	TFP1425

Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

Deluge & Preaction Systems

Double Interlock Preaction Systems

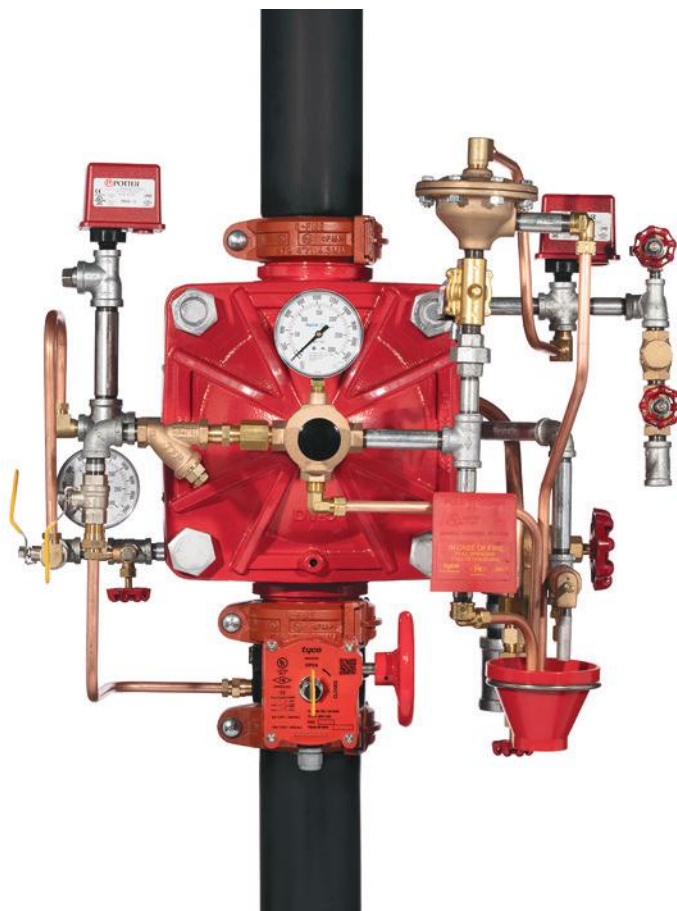
Electric/Electric or Electric/Pneumatic Actuation

The DV-5A Double Interlock Preaction Systems are designed for applications such as refrigerated areas that require the maximum degree of protection against inadvertent flooding of the sprinkler system piping.

The double interlock system consists of a deluge valve and swing check valve with releasing trim featuring both a solenoid valve and a dry pilot actuator in a series configuration. The swing check valve isolates the body of the deluge valve from the system air or nitrogen pressure that holds the dry pilot actuator closed. The solenoid valve remains closed until it is electrically energized by a deluge releasing panel that responds to the operation of a fire detection device.

In order to actuate the double interlock preaction system, two independent events, caused by a fire condition, must occur. The sprinkler system piping must lose air or nitrogen pressure due to the operation of one or more sprinklers, and the deluge releasing panel must energize and open the solenoid valve upon the operation of a fire detection device.

The double interlock system will operate only when both the dry pilot actuator and the solenoid valve are open at the same time. Opening of the dry pilot actuator only (for example: a forklift truck accidentally dislodges a sprinkler) or of the solenoid valve only (for example: accidental operation of an electric manual pull station) will cause an alarm, and will not trip the system or flood the sprinkler system piping.



DV-5A Size Range	1½" thru 8" (DN40 thru DN200)
Approvals	UL, C-UL Listed & FM Approved
Preaction Double Interlock Trim	Electric/Electric Actuation, Electric/Pneumatic Actuation
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	TFP1450

Vertical installation ■ One internal working part, Diaphragm operation ■ No linkage or clapper assembly ■ Light weight ductile iron body ■ Internally & externally coated ■ Features external resetting ■ For deluge, preaction & foam systems

Deluge & Preaction Systems

RED-E-Cabinet®

Integrated Fire Protection Packages

The Red-E-Cabinet is a pre-assembled fire protection valve package enclosed within a free-standing cabinet designed to occupy minimal floor space and to provide an aesthetically pleasing enclosure for a fire protection valve riser. The entire package is pre-wired and the water inlet and outlets to the valve riser are grooved to provide minimal installation time. The valve package includes the system (manual) shut-off control valve, automatic water control valve, as well as water flow and supervisory switches. When dry pilot actuation is utilized, a built-in air compressor with associated controls provides an automatic air supply for as either supervision or automatic water control valve actuation.

Integral to the DV-5A Red-E Cabinet is a control panel and back-up batteries for providing electrical alarm, supervisory, and trouble functions. All switches within the cabinet are pre-wired to the control panel, making the electrical connections for power, detection circuits, and alarms the only remaining connections to complete the system.

In addition to the control panel being integral to the DV-5A Red-E Cabinet, windows have been provided in the door for viewing the releasing panel functions and essential system pressure gauges. A lock for the control panel access door is standard, and a lock for the cabinet door is optional.



Size Range	1½" thru 8" (DN40 thru DN200) valve risers
Approvals	UL, C-UL Listed & FM Approved
Maximum Service Pressure	250 psi (17,2 bar)
Types of System	<p>Deluge Systems: (TFP1300)</p> <ul style="list-style-type: none"> - Wet Pilot Actuation - Dry Pilot Actuation - Electric Actuation <p>Single Interlock Preaction Systems: (TFP1400)</p> <ul style="list-style-type: none"> - Wet Pilot Actuation - Dry Pilot Actuation - Electric Actuation <p>Double Interlock Preaction Systems: (TFP1400)</p> <ul style="list-style-type: none"> - Electric/Pneumatic Actuation - Electric/Electric Actuation
End Connection	Thread x Thread, Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	<p>TFP1300 – Deluge Systems</p> <p>TFP1302 – Remote-Resetting, Pressure-Reducing Deluge Valve, Limited Space Cabinet</p> <p>TFP1400 – Preaction Systems</p>

Aesthetically pleasing appearance ■ Professionally assembled ■ Minimal installation time ■ Internally wired ■ Custom manufactured ■ Model DV-5 deluge valve (standard) ■ All gauges and panel display are externally visible



General Purpose Valves

Designed for use in wet pipe sprinkler systems.

- Prevention of Reverse Flow
- System Shut-off
- Sectional Control
- Closure of Fire Protection After Operation
- Facilitation of System Testing

General Purpose Valves

PRV-1

Pressure Regulating Valve



Sizes	2" thru 8" (DN50 thru DN200)
Approvals	UL, C-UL Listed & FM Approved
Maximum Inlet Pressure	250 psi (17,2 bar)
Field Outlet "Set Pressure" Range	80 to 225 psi (5,5 to 15,5 bar) per FM Approval, or 80 to 150 psi (5,5 to 10,3 bar) per UL Listing
End Connection	Thread x Thread, Groove x Groove, Flange x Flange
Tech Data Sheet	TFP1580

The PRV-1 is intended to automatically maintain the outlet "set pressure" (static and residual) within a close range, regardless of fluctuations in the higher pressure inlet line or varying flow rates. ■ Can be installed either vertically or horizontally ■ One piece, one moving part diaphragm ■ In-line service (for maintenance) ■ Factory outlet "set pressure" of 125 psi (8,6 bar)

RV-1

Pressure Relief Valve



Sizes	2" thru 8" (DN50 thru DN200)
Approvals	UL Listed & FM Approved
Maximum Inlet Pressure	250 psi (17,2 bar)
Field Relief "Set Pressure" Range	30 to 250 psi (2,1 to 17,2 bar)
Temperature Range	50°F to 175°F (10°C to 80°C)
Body Style	Globe or Angle Pattern
End Connection	Thread x Thread or Flange x Flange
Flange Drilling	ANSI, ISO, AS, & JIS
Tech Data Sheet	TFP1585

Installation in any orientation ■ One-piece, one-moving-part diaphragm ■ Ceramic enamel-coated interior ■ Standard nylon-coated exterior ■ Accurate pressure control ■ In-line service ■ No need to bleed trapped air from the diaphragm chamber

General Purpose Valves

Resilient-Seated Gate Valves

Outside Screw and Yoke



Sizes	2" thru 12" (DN50 thru DN300)
Approvals	UL Listed & FM Approved
Maximum Working Pressure	UL - 300 psi (20,7 bar) FM - 232 psi (16,0 bar)
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, & AS
Tech Data Sheet	TFP1540

Used in Fire Protection Systems for on/off operation ■ Its design features and material selection criteria fulfill the need for a dependable, long life and easy to operate gate valve ■ The fully encapsulated EPDM ductile iron Wedge ensures bubble-tight sealing ■ The Flange x Flange body valves feature two plugged tapping bosses for quick and direct connection.

Vertical or Cross Wall Post Indicator



Sizes	4" thru 12" (DN100 thru DN300)
Approvals	UL Listed & FM Approved
Maximum Working Pressure	UL - 300 psi (20,7 bar) FM - 232 psi (16,0 bar)
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Flange Drilling	ANSI, ISO, & AS
Tech Data Sheet	TFP1545

Used in Fire Protection Systems for on/off operation ■ Its design features and material selection criteria fulfill the need for a dependable, long life and easy to operate gate valve ■ The fully encapsulated EPDM ductile iron wedge ensures drop-tight sealing

General Purpose Valves

BFV-300

Grooved Butterfly Valve



Sizes	2" thru 12" (DN50 thru DN300)
Approvals	UL Listed, FM Approved, CE Certified VdS Approved, Russian Fire Certificate CNPP R1 Listed – APSAD Listed by California State Fire Marshall
Maximum Working Pressure	UL/FM Maximum Working Pressure 2 – 8 Inch (DN50 – DN200) 300 psi (20,7 bar) 10 – 12 Inch (DN250 – DN300) 175 psi (12,1 bar) VdS Maximum Working Pressure 2 – 8 Inch (DN50 – DN200) 300 psi (20,7 bar) 10 Inch (DN250) 232 psi (16,0 bar) 12 Inch (DN300) 175 psi (12,1 bar)
Maximum Working Temperature	212°F (100°C) in accordance with UL 1091
End Connection	Groove x Groove
Tech Data Sheet	TFP1511

BFV-300 (Normally Open) and BFV-300C (Normally Closed) ■ Indicating type valves provide visual indication of whether the valve is open or closed ■ Suitable for use with grooved pipe couplings that are listed or approved for fire protection service

Wafer Style Butterfly Valve



Sizes	2" thru 12" (DN50 thru DN300)
Approvals	UL Listed, FM Approved, CE Certified VdS Approved, Russian Fire Certificate CNPP R1 Listed – APSAD Listed by California State Fire Marshall
Maximum Working Pressure	UL/FM Maximum Working Pressure 2 – 8 Inch (DN50 – DN200) 300 psi (20,7 bar) 10 – 12 Inch (DN250 – DN300) 175 psi (12,1 bar) VdS Maximum Working Pressure 2 – 8 Inch (DN50 – DN200) 300 psi (20,7 bar) 10 Inch (DN250) 232 psi (16,0 bar) 12 Inch (DN300) 175 psi (12,1 bar)
Maximum Working Temperature	212°F (100°C) in accordance with UL 1091
End Connection	Wafer
Tech Data Sheet	TFP1516

Suitable for use installation between ANSI Class 125 or 150 flanges or PN10/16 flanges without the need for flange gaskets ■ Indicating type valves provide visual indication of whether the valve is open or closed

General Purpose Valves

CV-1F

Grooved Check Valve



Sizes	2" thru 10" (DN50 thru DN250)
Approvals	UL, C-UL Listed & FM & VdS Approved Compliance with CE Pressure Equipment Directive (PED) and Standards of Engineering Practice
Maximum Working Pressure	UL/FM - 300 psi (20,7 bar) VdS - 16 bar
End Connection	Groove x Groove, Flange x Flange, Flange x Groove
Tech Data Sheet	TFP1550

Can be installed either vertically or horizontally ■ Cut groove inlet and outlet connections ■ Suitable for use with grooved pipe couplings that are listed or approved for fire protection service

CV-300B

Grooved End Swing Check Valve



Sizes	4" (DN100)
Approvals	UL, C-UL Listed & FM Approved
Maximum Working Pressure	300 psi (20,7 bar)
End Connection	Groove x Groove
Tech Data Sheet	TFP1552

The TYCO Model CV-300B Grooved End Swing Check Valves are compact and rugged swing-type units that allow water flow in one direction and prevent flow in the opposite direction ■ The Model CV-300B Check Valves are designed to minimize water hammer caused by flow reversal ■ A resilient elastomer seal facing on the spring-loaded clapper ensures a leaktight seal and non-sticking operation.

Lansdale Powerball 300

Bronze Butterfly Valve



Sizes	1" - 2-1/2" NPT 1-1/4" - 2-1/2" Grooved
Approvals	UL Listed & FM Approved
Maximum Service Pressure	300psi (20.7bar)
Tech Data Sheet	Contact Tyco for details

Bronze body butterfly valves are designed specifically for fire protection applications ■ Feature slow closure that substantially minimizes water hammer ■ May be used as sectional or small system control valves where a distinct visual indication of the valve status is required ■ Complete with Position Indicator and Integral Tamper Switch

General Purpose Valves

Trim Valves


[Tech Data Sheet](#)
[Contact Tyco for details](#)

For general service such as shut-off, throttling, or drain valves ■ Provide positive shut-off under normal operating conditions

DP-1

Dry Pilot Actuator


[Approvals](#)

UL, C-UL Listed & FM, LPCB Approved

[Maximum Water Supply Pressure](#)

250 psi (17,2 bar)

[Maximum System Air \(Nitrogen\) Pressure](#)

50 psi (3,4 bar)

[Tech Data Sheet](#)
TFP1380

Dry Pilot Actuator is an auxiliary releasing device ■ When the Model DP-1 actuates, it permits water pressure to be released from the deluge or preaction valve differential chamber, thereby allowing the deluge or preaction valve to open ■ Designed for Preaction Valves having double interlock electric/pneumatic release

ASV-1

Automatic Shut-Off Valve, Trim Component


[Approvals](#)

UL, C-UL Listed & FM Approved

[Maximum Working Water Pressure](#)

250 psi (17,2 bar)

[Tech Data Sheet](#)
TFP1384

Intended for use with the DV-5 Deluge Valve in deluge and preaction systems ■ Prevents inadvertent resetting of the DV-5 Valve after the DV-5 Valve initial operation ■ Provided as part of the DV-5 Valve trim arrangements, it is installed in the diaphragm chamber supply connections

FSV-1

Fail-Safe Valve, Trim Component


[Approvals](#)

UL, C-UL Listed & FM Approved

[Maximum Working Water Pressure](#)

250 psi (17,2 bar)

[Tech Data Sheet](#)
TFP1386

Intended for use with the Model DV-5 Deluge Valve in certain types of trim arrangements for deluge and preaction systems ■ Prevents inadvertent resetting of the DV-5 after initial operation of the DV-5 Valve



Specialty Items & Antifreeze

Complement the system components used in fire protection systems.

- UL Certified Antifreeze for Fire Sprinkler Systems
- Automatic Actuation of Electric &/or Hydraulic Alarms
- Automatic Quarterly Flow Switch Tests
- Eliminate Expelled Water
- Reduce Accidental Manual Shut-Off

Specialty Items

DD-1 (Drum Drip)

Wiliag™ Condensate Drain



Overall Length	24" (615 mm)
Turning radius	2.5" (64 mm)
Tech Data Sheet	Contact Tyco for details

Ready to install ■ No power machine required for cutting pipe and making fittings ■ No power machine for repair ■ Eliminates potential leaks ■ Eliminates labor of fabrication ■ Classic look of a professional job ■ Net weight only 6.25 lbs.

FL-1

Fusible Links



Approvals	UL, C-UL Listed & FM Approved
Load Rating	5 to 50 lbs (2,3 to 22,7kg). Continuous Load
Temperature Rating	165°F (74°C), 212°F (100°C), 286°F (141°C), 360°F (162°C), 500°F (260°C)
Tech Data Sheet	TFP1610

Heat-activated releasing device designed for installation in mechanically operated systems requiring a positive acting release mechanism ■ Used extensively as releasing devices in restaurants and industrial fire protection systems, as well as in heat-activated counterbalanced systems such as fire doors, dampers and kitchen chemical systems ■ Consists of fusible alloy sealed in the center of a bronze tube by a stainless steel ball ■ When the alloy melts, the fusible assembly compresses, allowing it to eject from between the two-piece strut, strut assembly separates, activating the intended fire protection system or device

MC-1

Manual Control Station



Approvals	UL, C-UL Listed & FM Approved
Working Water Pressure	20 to 300 psi (1,4 to 20,7 bar)
Minimum Ambient Temperature	Dry Pilot Lines: -50°F (-46°C) Wet Pilot Lines: 40°F (4°C)
Tech Data Sheet	TFP1382

Provides a tamper resistant means for emergency release ■ Interconnection with the valves may be direct via hydraulic (wet) pilot line or indirect via pneumatic (dry) pilot line to a Model DP-1 Dry Pilot Actuator

Specialty Items

Model A

Pipe Line Strainers



Sizes	3" thru 10" (DN80 thru DN250)
Approvals	UL, C-UL Listed & FM Approved
Maximum Working Pressure	175 psi (12,1 bar)
Strainer Basket Screen	1/8 inch (3,2 mm) diameter holes spaced to provide 40 percent open area.
Tech Data Sheet	TFP1640

Model A Pipe Line Strainers are designed for installation in the water supply connection to automatic sprinkler, water spray deluge, foam-water deluge, or standpipe fire protection systems.

Model B-1

Pipe Line Strainers



Sizes	3" thru 6" (DN80 thru DN150)
Approvals	UL, C-UL Listed & FM Approved
Maximum Working Pressure	175 psi (12,1 bar)
Strainer Basket Screen	1/8 inch (3,2 mm) diameter holes spaced to provide 40 percent open area.
Tech Data Sheet	TFP1642

The Model B-1 Pipe Line Strainers are designed for installation in the water supply connection to automatic sprinkler, water spray deluge, foam-water deluge, or standpipe fire protection systems.

Model C

Pipe Line Strainers



Sizes	6" x 6" (DN150 x DN150), 8" x 8" (DN200 x DN200)
Approvals	UL, C-UL Listed & FM Approved
Maximum Working Pressure	250 psi (7,2 bar)
Strainer Basket Screen	1/8 inch (3,2 mm) diameter holes spaced to provide 40 percent open area.
Tech Data Sheet	TFP1644

Compact lightweight welded hot dipped galvanized assembly with flanged inlet, outlet and flushing connection ■ Corrosion resistant Type 304 stainless steel screen especially designed for low pressure loss

Specialty Items

Signs

Identification Signs



	Sizes	9" x 7" (229 x 178mm), 6" x 2" (152 x 51mm), 5" x 7" (127 x 178mm), Round: 7- ³ / ₄ " Dia. (184mm Dia.)
	Signs	AIR CONTROL AIR LINE ALARM TEST ANTIFREEZE SYSTEM AUXILIARY DRAIN CONTROL VALVE DRAIN DRAIN VALVE FIRE ALARM HYDRAULIC CALCULATION INSPECTORS TEST MAIN CONTROL MAIN DRAIN
	Tech Data Sheet	TFP1615

Designed to provide information to the end user about the sprinkler system and its components ■ Available with a variety of wording combinations to meet the signage requirements of NFPA 13

SF-1

Sight Flow Connection



	Sizes	1" and 2" (DN25 and DN50)
	Approvals	UL Listed & FM Approved
	Maximum Working Pressure	175 psi (12,1) bar
	Tech Data Sheet	TFP1635

Designed for use in fire protection systems as a means for visibly checking that water is flowing and filling the pipe at that point ■ May be installed vertically or horizontally

Fire Department Connections

Straight & 90° Fire Department Connections



	Pattern	90° Side Outlet Pattern Straight -Through Siamese Pattern
	Tech Data Sheet	Contact Tyco for details

Designed for fire department use to increase water pressure and volume to automatic sprinkler system or standard-pipe system

Specialty Items

AD-1

Automatic Drain Valve



Approvals

The Model AD-1 Automatic Drain Valve forms a part of the overall approvals given in the applicable technical data sheets for the TYCO Dry Pipe, Deluge, or Preaction Valves.

Maximum Working Pressure

250 psi (17,2 bar)

Tech Data Sheet

TFP1630

Designed for use with Tyco Dry Pipe, Deluge, and Preaction Valves ■ Provided as a trim component for these valves, the Model AD-1 Automatic Drain Valve is used to automatically drain the normally dry alarm lines

AD-2

Automatic Drain Valve



Approvals

UL Listed & FM Approved

Maximum Working Pressure

175 psi (12,1 bar)

Tech Data Sheet

TFP1632

Designed to automatically drain water from fire protection equipment supply connections that are to be maintained normally dry ■ Installed vertically and utilized with an open drain

Hangers

Pipe Hangers



Tech Data Sheet

Contact Tyco for details

A full-line of pipe hangers for every fire protection need ■ Manufactured to meet the quality standards that the industry demands ■ Meet the requirements of NFPA 13

Specialty Items

TYCO® LFP™ Antifreeze for Fire Sprinkler Systems



TYCO® LFP™ antifreeze is the first and only UL Certified antifreeze solution for fire sprinkler systems. The solution is formulated to help ensure fire sprinkler systems operate as intended by allowing flow in temperatures as low as -10°F (-23,3°C). It is compatible with most sprinkler system materials, including CPVC, and can be more cost-effective, as well as easier to install and maintain, than alternate freeze protection methods, such as heat tracing or dry systems.



Approvals	UL Certified
Minimum Use Temperature	-10°F (-23,3°C)
Maximum Use Temperature	150°F (65°C)
pH	7 - 8
Density at 77°F (25°C)	9.4 lb/gal (1129 kg/m3)
Conductivity	1000-1400 µS/cm
Tech Data Sheet	TFP1680
Compatible Materials	Brass materials, Stainless steel piping, Black steel, Copper, Bronze, Cast iron, CPVC, PEX, EPDM, Natural rubber, Nitrile rubber (BUNA-N), Styrene-butadiene rubber (SBR), Fusion bonded epoxy coated ductile iron

FBC Compatible ■ Helps meet NFPA 13, 13R, 13D and 25 requirements ■ Freeze point -13°F (-25°C) ■ Certified for use in residential, commercial and some storage applications ■ Compatible with all sprinkler system materials, including CPVC ■ Non-toxic* ■ Pre-mixed solution

*For the purpose of this product, non-toxic means acute exposure to ingredients in the LFP™ Antifreeze does not pose a risk of adverse effects in humans or the environment following short-term exposure in scenarios related to fire sprinkler system installation, maintenance, and discharge.
Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.



Grooved Piping Products

Designed for use in fire protection systems.

- Easy One-Bolt Coupling for Fast Install
- Rigid Connections for Long Runs & Risers
- Quickly Join Steel Pipe without Welding
- Dampening Noise & Vibration Transmission

Grooved Piping Products

Figure 579

One-Bolt Rigid Coupling



Sizes	2" thru 8" (DN50 thru DN200)
Approvals	UL, ULC Listed & FM Approved
Maximum Working Pressure	Up to 365 psi (25,2 bar)
Grade "A" EPDM Pre-Lubricate Gasket Temperature	-30°F to 150°F (-34°C to 66°C)
Tech Data Sheet	TFP1856

For use in fire protection systems, the GRINNELL G-Fire Figure 579 Grooved Rigid Coupling is designed to make joining pipe faster and easier than ever before. ■ Arriving pre-assembled and pre-lubricated, this One-Bolt Coupling is ready to install right out of the box. ■ The unique design consists of a three-piece housing, a center-stop gasket, and just one bolt to tighten. ■ The center-stop gasket ensures proper positioning on the pipe and enables easy push-on installation in both horizontal and vertical applications across wet, dry and freezer systems. ■ The unique, one-bolt design eliminates alternate tightening for a faster, more efficient installation. ■ It is capable of pressures up to 365 psi (25,2 bar) depending on pipe size and wall thickness when used in fire protection services.

Figure 577

Rigid Coupling



Sizes	1" thru 12" (DN25 thru DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	350 psi (24, 1 bar)
Grade "A" EPDM Pre-Lubricate Gasket Temperature	-30°F to 150°F (-34°C to 66°C)
Tech Data Sheet	TFP1854

For use in fire protection systems, the GRINNELL G-FIRE Figure 577 Grooved Rigid Coupling provides a rigid joint by firmly gripping along the full circumference of the pipe grooves. Figure 577 Grooved Rigid Couplings are a proven dependable method of joining pipe and are an economical alternative to welding, threading, or using flanges. ■ It is capable of pressures up to 350 psi (24, 1 bar) depending on pipe size and wall thickness when used in fire protection services ■ Also available with tri-seal Grade "E" EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications

Grooved Piping Products

Figure 705

Grooved Flexible Coupling



Sizes	1" thru 12" (DN25 thru DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	300 psi (20,7 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	TFP1820

The GRINNELL G-FIRE Figure 705 Flexible Coupling is capable of pressures up to 300 psi (20,7 bar) depending on pipe size and wall thickness when used in fire protection services. It provides a dependable method of joining pipe and is suitable for use in a variety of applications. ■ Provides the needed flexibility to accommodate differential movement ■ Also available with tri-seal Grade E EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications

Figure 707

Flexible Coupling



Sizes	1-1/4" x 12" (DN32 x DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	500 psi (34,5 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	TFP1840

The GRINNELL 707 Flexible Coupling provides a dependable method of joining pipe and is suitable for use in a variety of applications. ■ Capable of pressures up to 500 psi (34,5 bar) depending on pipe size and wall thickness ■ Also available with tri-seal Grade "E" EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications

Figure 716

Flexible Reducing Coupling




Sizes	2" x 1-1/2" (DN50 x DN40) through 8" x 6" (DN200 x DN150)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	350 psi (24,1 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	TFP1830

The GRINNELL G-FIRE 716 Reducing Coupling allows easy transition between two different pipe sizes and replaces two couplings and a reducing fitting. ■ It is capable of pressures up to 350 psi (24,1 bar) depending on pipe size and wall thickness. A flexible reducing coupling is not recommended for low-temperature applications. ■ Faster and easier than threading, welding or using flanges

Grooved Piping Products

Figure 71

Flange Adapter

	Sizes	2" x 12" (DN50 x DN300)
	Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
	Maximum Working Pressure	250 psi (17,2 bar)
	Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
	Flange Drilling	ANSI Class 125 and 150, or PN16 standards
	Tech Data Sheet	TFP1880

The GRINNELL 71 Flange Adapter allows for a direct transition from flanged components to a grooved piping system ■ Capable of pressures up to 250 psi (17,2 bar) depending on pipe size and wall thickness

Figure 730

Mechanical Tees & Crosses

	Run Sizes	2" x 8" (DN50 x DN200)
	Branch Sizes	1/2" to 4" outlets (DN15 to DN100)
	Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
	Maximum Working Pressure	300 psi (20,7 bar)
	Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
	Tech Data Sheet	TFP1860

The GRINNELL 730 Mechanical Tees & Crosses come with threaded or grooved outlets and can be used for any tee connection where a threaded or grooved outlet is needed. ■ It can be used in place of a tee, a cross connection, or a welded outlet where a threaded or grooved outlet is needed. ■ The Mechanical Tee is ideal for use in retrofit or equipment hookup installations as it can be positioned along the pipe at the proper location in the field, ensuring exact lineup of the branch outlet connection.

Grooved Piping Products

Grooved Fittings

Elbows, Tees, Reducers, Caps, Crosses and Flange Adapters



Sizes Range	1" x 12" (DN25 x DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	300 psi (20,7 bar)
Tech Data Sheet	TFP1815

Provide an economical and efficient method of changing direction, adding an outlet, reducing or capping grooved piping systems ■ Cast grooved fittings provide full flow characteristics ■ Full back stop behind the groove to ensure proper coupling engagement and rigidity ■ 90° elbows and tees are also available in the "short pattern" style ■ Available painted or galvanized finish



Figure 510S
Short Pattern 90° Cast Elbows
Sizes 2" thru 8" (DN50 – DN200)



Figure 510
90° Cast Elbows
Sizes 1" thru 12" (DN25 – DN300)



Figure 510DE
90° Drain Elbows
Sizes 2" thru 8" (DN50 – DN200)



Figure 501
45° Cast Elbows
Sizes 1" thru 12" (DN25 – DN300)



Figures 512 & 312
22-1/2° Elbows
Sizes 1-1/4" thru 12" (DN32 – DN300)



Figures 511 & 311
11-1/4° Elbows
Sizes 1-1/4" thru 12" (DN32 – DN300)



Figure 519S
Short Pattern Tee
Sizes 2" thru 8" (DN50 – DN200)



Figure 519
Tees
Sizes 1" thru 12" (DN25 – DN300)



Figure 320
Groove x Groove x Male Thread
Reducing Tees
Sizes 1" thru 12" (DN25 – DN300)



Figures 221 & 321
Reducing Tees
Sizes 1-1/4" x 1" thru 12" x 10"
(DN32 x DN25 thru DN300 x DN250)



Figure 323
Groove x Groove x Male Thread
Reducing Tees
Sizes 2" x 3/4" thru 12" x 10"
(DN50 x DN20 thru DN300 x DN250)



Figures 391, 392, & 393
Adaptor Nipples
Sizes 1-1/4" thru 12" (DN32 – DN300)



Figure 372
Reducers, Small End Threaded (Male)
Sizes 1-1/2" x 1" thru 6" x 5"
(DN40 x DN25 thru DN150 x DN125)



Figures 250, 550 & 350
Concentric Reducers
Sizes 1-1/4" x 1" thru 12" x 10"
(DN32 x DN25 thru DN300 x DN250)



Figures 327 Fabricated
Crosses
Sizes 1" thru 12" (DN25 – DN300)



Figures 260 & 360
End Caps
Sizes 1" thru 12" (DN25 – DN300)



Figure 341 & 342
Flange Adapters
Sizes 1" thru 12" (DN25 – DN300)

Grooved Piping Products

40-5

Strap Outlets



Pipe Run Sizes	1-1/4" to 2-1/2" Outlets (DN32 to DN65)
Outlet Thread Sizes	1/2" to 1" NPT Outlet
Approvals	UL, ULC Listed & FM Approved
Maximum Working Pressure	175 psi (12,1 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	TFP1720

The Figure 40-5 Strap is an economical alternative to welded pipe outlets on steel pipe. ■ Can be used with full lengths of pipe and eliminates threading and welding, decreasing waste and installation time. ■ Can be used in wet, dry pipe, and deluge systems

ADACAP®

End of Line Sprinkler Fitting



Pipe Run Sizes	1-1/2" to 2-1/2" Outlets (DN40 to DN65)
Outlet Thread Sizes	1/2" to 1" NPT Outlet
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Rated Pressure	300 psi (20,7 bar)
Tech Data Sheet	TFP1815

Used to install the last sprinkler on grooved branch line piping or as a drain fitting ■ End-of-the-line sprinkler fittings eliminate the need for an end cap and female outlet ■ Can be turned down for end of line drain



Tyco CPVC Pipe & Fittings

Manufactured with BlazeMaster® compound.

- Light Hazard & Residential Occupancies
- Unfinished basements
- Underground Water Pressure Service
- Connections to Copper & Steel Piping
- Resistance of Sweating, Condensation, & MIC

CPVC Pipe & Threaded Fittings

CPVC Pipe

Sprinkler Pipe



Sizes	3/4" thru 3" (DN20 thru DN80)
Pipe Length	10' and 15' Lengths
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	TFP1915 and Installation Handbook - IH-1900

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC pipe is designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC pipe is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC piping materials. ■ TYCO CPVC sprinkler pipe conforms to the requirements of ASTM F442 and is produced to SDR 13.5. SDR (Standard Dimension Ratio) is the ratio of the outside pipe diameter to the wall thickness of the pipe.

Fittings



Sizes	3/4" thru 3" (DN20 thru DN80)
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	TFP1915 and Installation Handbook - IH-1900

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials. ■ Tees, Crosses, Reducing Tees & Crosses, 90° Elbows, 45° Elbows, Couplings, Bushings, Caps, Sprinkler Head Adapters, Grooved Coupling Adapters, Female and Male Adapters, Sprinkler Adapter Tees, etc...

Rapid Seal Adapter (RSA) Fittings



Sizes	3/4" thru 1" (DN20 thru DN25)
Pipe Thread Connection	1/2" NPS
Approvals	UL, C-UL Listed & FM, & LPCB Approved Certified to all requirements of NSF/ANSI 61, Annex G
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	TFP1925 and Installation Handbook - IH-1900

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot

CPVC Pipe & Threaded Fittings

CPVC

Back-to-Back Fittings



Sizes	3/4" thru 3" (DN20 thru DN80)
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	TFP1915 and Installation Handbook - IH-1900

Included in the Tyco line of BLAZEMASTER® CPVC products ■ Allows two sidewall sprinklers to be piped from one fitting ■ Ideal when the CPVC piping is located in a 3-1/2" (2" x 4") vertical wall, eliminating the need for extra nipples, fittings and sprinkler head adapters typically associated with supplying two rooms with the same pipe ■ Specially designed and dimensioned to enable the sidewall sprinklers to be recessed with 1/2" or 5/8" sheet-rock wall covering

CPVC to Copper Fitting



Sizes	3/4" thru 2" (DN20 thru DN50)
Approvals	UL, C-UL Listed & FM, MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	TFP1915 and Installation Handbook - IH-1900

Transition to BLAZEMASTER pipe from traditional copper tube for plumbing services ■ Transition to steel or BLAZEMASTER CPVC Fire Sprinkler System piping from traditional copper tube for plumbing services is fast, easy, and readily available in the most complete fire sprinkler package in the industry

CPVC Hangers & SHB1 Head Set



Sizes	3/4" thru 1" NPT
Approvals	UL Listed
Material	Galvanized aluminum, 20 gauge
Tech Data Sheet	TFP1920 and Installation Handbook - IH-1900

"No Block Hanger" is a two hole strap that eliminates blocking to the beam when hanging CPVC pipe ■ The TYCO CPVC Hanger Head Set Model SHB1 offers a time saving installation method for proper placement of an automatic sprinkler before the ceiling is installed. ■ Positions the face of the pipe 1-1/2" off the face of the joist ■ Provides vertical restraint, eliminating need for additional hangers

CPVC Supplies



Tech Data Sheet	TFP-600 One Step Solvent Cement (TFP1994) and CPVC Installation Handbook (IH-1900)
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One-Step CPVC Cement specifically formulated for use with BlazeMaster® pipe and fittings ■ BLAZEMASTER Caulk and Walk® Firestop



Electrical Devices

Allow fire protection systems to be interfaced with alarm systems.

- Battery Back-up in the Event of Power Failure
- Built-in High & Low Pressure Alarm Supervision
- Electric Release Technology
- Easier to Install, Set, & Maintain than Mechanical Accelerators

Electrical Devices

VSR Waterflow Alarm Switch

Flow & Pressure Switch

	Sizes	2" thru 8" (DN50 thru DN200)
	Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use on wet sprinkler systems ■ Actuated with a minimum flow of 10 gallons per minute ■ Retard delay is an adjustable feature that can be set from 0 to 90 seconds ■ Flow condition must exist for the period of time necessary to overcome the selected delay period

VSR Waterflow Alarm Switch for Small Pipe


Flow & Pressure Switch

	Sizes	1" thru 2" (DN25 thru DN50)
	Tech Data Sheet	Contact Tyco for details

Vane type waterflow switch for use on wet sprinkler systems ■ May also be used as a sectional water flow detector on large systems ■ Installs directly into a threaded tee

Model PS10/PS40 Pressure alarm Switch

Flow & Pressure Switch

	Tech Data Sheet	Contact Tyco for details
---	-----------------	--------------------------

Designed to detect a pressure increase or decrease in fire sprinkler systems ■ PS40 switches are primarily used to monitor low air pressure conditions in dry systems ■ PS10 switch is appropriate for water flow detection

Electrical Devices

PCVS Control Valve Supervisory Switch

Tamper & Alarm Switch



[Tech Data Sheet](#)

[Contact Tyco for details](#)

Weather proof and tamper resistant switch for monitoring the open position of post indicator, butterfly and other types of fire sprinkler/control valves

OSY-SU

Tamper & Alarm Switch



[Tech Data Sheet](#)

[Contact Tyco for details](#)

Used to monitor the open position of an OS&Y (outside screw and yoke) type gate valve ■ Mounts conveniently to most OS&Y valves ranging in size from 2" (DN50) to 12" (DN300) ■ Can be used on some valves as small as 1/2" ■ Models include options for one or two sets of SPDT (Form C) contacts.

Solenoid Valve

For Releasing Service



Sizes

1/2" (DN15)

Approvals

UL Listed, FM Approved & CE Certified

Working Pressure

20 thru 250 psi (1,4 - 17,2 bar)

[Tech Data Sheet](#)

TFP2180

Used in conjunction with an electric releasing panel that is listed or approved (as appropriate) for fire protection releasing service, and where the releasing panel is operated by listed or approved (as appropriate) electric fire detectors ■ Available in a variety of voltages for both normal and hazardous locations

Electrical Devices

4410-RC

Releasing Panel



Approvals

UL Listed & FM Approved

Tech Data Sheet

Contact Tyco for details

Provides the interface between detection system, deluge or single or double interlocked preaction valve, and signaling circuit and devices in electrically actuated fire protection systems ■ Separate supervisory zone provided for electronic supervision of valve position, low pressure, and other critical fire protection functions ■ Can be used in single zone, cross zone, sequential or cross/sequential electric deduction systems ■ Has programming capability

Tank Mounted Air Compressor

For Dry Pipe Sprinkler Systems



Tech Data Sheet

Contact Tyco for details

Designed for the same high-performance as base mounted units ■ Compressor is mounted on an air tank to offer further ease of installation and availability ■ Automatic and safety features are built into the unit, reducing installation costs ■ Multiple dry systems may be supplied from a single compressor tank that is a constant source of air ■ This is the recommended air supply method for all dry pipe sprinkler systems

Base Mounted Air Compressor

For Dry Pipe Sprinkler Systems



Sizes

1" thru 2" (DN25 thru DN50)

Tech Data Sheet


Contact Tyco for details

Designed for high volume (cubic feet of air per minute) at the moderate pressures required for the system ■ Sized properly, these will fill the system to 40 Psi of air pressure in approximately 30 minutes as required in NFPA 13

Electrical Devices

Riser Mounted Air Compressor

Fully Automatic

	Tech Data Sheet	Contact Tyco for details
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Fully automatic and are designed for easy installation ■ Special mounting kits are available to facilitate riser mounting ■ Sized properly, these compressors will fill a system to 40 Psi within 30 minutes as required in NFPA 13

Model G16AC812

Automatic Supervisory Air Supply

	Approvals	UL Listed & CSA Certified
	Nominal Supervisory Air Pressure	10 psi (0,7 bar)
	Tech Data Sheet	TFP1620

Supplies and maintains air in single interlock preaction fire protection systems ■ Can be mounted on the floor, on a wall, or to the system riser using optional brackets

Electrical Devices

DAP Series

Dry Air Pac™

General's DAP Series Dry Air Pac™ is an FM Approved, twin tower regenerative dryer / compressor package. This turnkey system is designed to provide the sprinkler system with moisture free air to a -40°F Dew Point. The air compressor is designed to fill the sprinkler system in accordance with NFPA 13 standards, as well as provide the higher pressure needed to allow the twin tower regenerative dryer to function properly.

Prior to entering the regenerative air dryer, an air cooled aftercooler cools the compressor's hot discharge air to a maximum 100°F. A coalescing prefilter with differential pressure gauge removes oil vapor and other contaminants that can destroy the desiccant in the dryer towers. A combination particulate filter and regulator prevents downstream migration of desiccant dust while regulating air pressure to the sprinkler system.

The Dry Air Pac™ is controlled by one integrated control panel complete with flow diagram display, 120 volt control circuit with indicating lights for tower drying, drain valve activation and compressor operation, along with panel mounted hour meter, separate drain valve duration and interval controls, drain valve on/off switch and panel control on/off switch. Four panel-mounted pressure gauges are provided for receiver, outlet and drying tower pressures. Purge set pressure gauge is separately mounted and conveniently located at the purge valve for ease of setting the purge flow.

All components are pre-piped, pre-tested, and pre-wired for ease of mechanical and electrical installation on site. Each unit includes a UL Listed, FM Approved Air Maintenance Device. -100°F dew point is achievable - consult factory for details.

Applications for the Dry Air Pac™ include, but are not limited to Freezer Rooms, Cold Storage Warehouses, Attic Spaces and Parking Garages.



Approvals	FM Approved
Tech Data Sheet	Contact Tyco for details

Combination afterfilter and regulator ■ A separate port is provided for attachment of a dewpoint-monitoring device ■ Oversized mufflers ■ Fully integrated control panel ■ Compact air cooled after cooler ■ Prefilter with differential pressure ■ Vibration pads ■ The Dry Air Pac™ comes fully charged with desiccant so that no on-site desiccant installation is required at startup ■ Separate desiccant fill and drain ports are provided to allow re-charging of the dryer tanks without disassembly of the dryer component piping ■ A coalescing filter, with integral differential pressure gauge, removes oil and water droplets prior to entry to the desiccant dryer ■ The single stage compressor allows for maximum efficiency. Standard equipment includes intercooler, oil fill/breather, oil sight glass and easily removable drain plug

Electrical Devices

Nitrogen Generators

Potter IntelliGen® Nitrogen Generators

Potter's IntelliGen® Series of Nitrogen Generators are specifically designed to generate on-site, 98%+ purity nitrogen for use in fire protection sprinkler systems. When used as a supervisory gas in fire sprinkler systems, nitrogen slows corrosion, improves the life of your system, and lowers maintenance costs.

The Potter IntelliGen® Series utilizes nitrogen membrane technology for gas separation. Nitrogen membranes are highly effective and a cost-conscious way of producing on-site nitrogen. Acting as a gas filter, the nitrogen membrane separates the oxygen and water vapor molecules in the air from the nitrogen molecules. The high-purity nitrogen gas is then piped through the air maintenance device and into the fire protection system. As the system fills with nitrogen, the remaining oxygen molecules in the fire protection system are exhausted through a separate purge valve.

All systems are ready to be connected to a new or existing fire sprinkler system, and include an integrated air compressor, nitrogen membrane, all air filtration equipment, tanks and the patent-pending Potter IntelliGen® Controller. Each unit is designed to be turned on and walk away. The built-in monitoring capabilities will make corrections and alert the user to any necessary changes. Alerts and notifications can be viewed locally or online via the Potter IntelliView™ website.


[Tech Data Sheet](#)
[Contact Tyco for details](#)

Potter's IntelliGen Controller (Patent Pending) ■ Fully automates the air and nitrogen fill procedure ■ Advanced leak rate detection ■ Integrated Bypass alarm ■ Web Enabled – system can be monitored anywhere there is internet connectivity ■ Automatically emails trouble alerts and maintenance reminders ■ Includes all air compressors, tanks, filters, relief valves, coolers, automatic drains, and gauges

Unit Type (Shipping)	Model #	* Largest Riser Fill (gal)	** Max Total System Capacity (gal)	Compressor Type/HP	Air Tank (Gal.)	Nitrogen Tank (Gal.)
Wall Mount (1 Pallet)	INS-100	160	675	Oil-Less, 1/4 HP	--	10
	INS-250	300	1000	Oil-Less, 1/2 HP	--	10
Integrated (1 Pallet)	INS-500	500	1850	Oil-Less, 1 HP	20	20
	INS-1000	1000	3400	Oil-Less, 2 HP	20	20
Modular (3 Pallets)	INS-1500	2000	6200	Lubricated, 7.5 HP	80	60
	INS-2000	2400	12000	Lubricated, 7.5 HP	80	60
	INS-2500	2400	24000	Lubricated, 7.5 HP	80	120
* At 40 PSI						
** Assuming new system leak rate of 1.5 PSI per 24 hours						

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

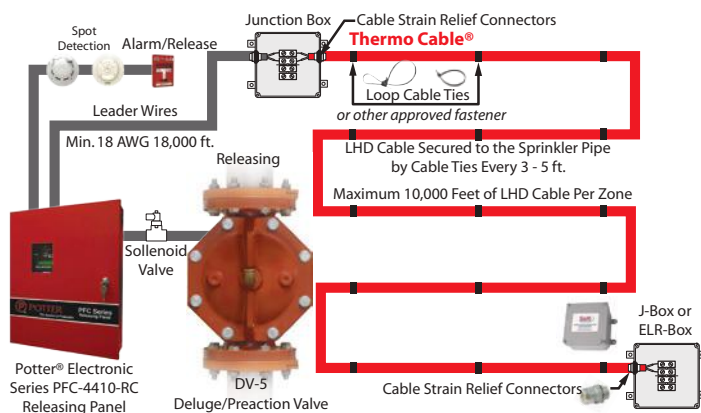
Electrical Devices

LHD

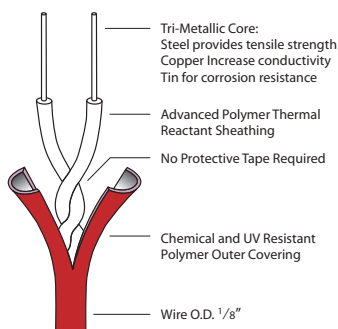
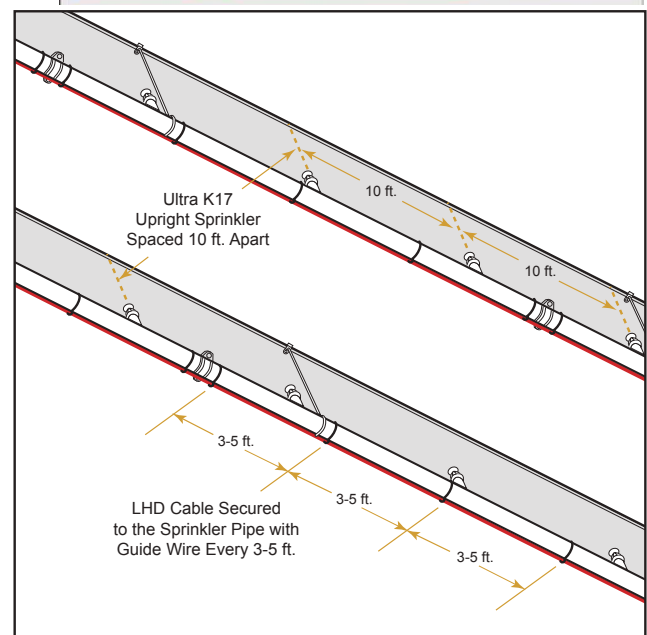
Linear Heat Detection Cable

The Linear Heat Detection (LHD) cable is a combination of advanced polymer and digital technologies which can be used on any panel, and can detect heat anywhere along its entire length.

At the core of the LHD cable is a twisted pair of extremely low resistance, tri-metallic conductors, sheathed in new advanced thermal polymers. These polymers are chemically engineered to break down at specific fixed temperatures allowing the twisted conductors to make contact and initiate an alarm. The polymer used for the protective outer coating of LHD cable is chemical resistant and UV protected. This allows the LHD cable be used in a wide variety of installations and special hazard applications.



Linear Heat Detection Cable allows a Quell designed fire sprinkler system to be more efficient by quickly recognizing the fire, and conveying the information back to the fire alarm panel.



Approvals	UL, C-UL Listed & FM Approved
Temperature Range	155° F (68°C) (typical temperature) 172° F (78°C), 190° F (88°C) 220° F (105°C)
Available Jacket Material	Polypropylene, PVC, Nylon
Resistance	0.05 ohms/ft Resistance per Twisted Pair
RF Tested	Up to 10,000 linear ft.
Tech Data Sheet	Contact Tyco for details

Ideal for double interlock preaction detection ■ Install up to 10,000 linear feet per zone ■ Compatible with any conventional releasing panel listed for fire ■ Can detect heat anywhere along the entire length of cable ■ Multiple alarm temperatures can be incorporated in the same zone ■ Easy to add a module ■ Lower material & installation cost

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Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

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