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### **FASTFLEX Model YN25, YB25, and YB28** Flexible Sprinkler Hose Assembly Europe, Middle East, and Africa Only

## General Description

The TYCO FASTFLEX Flexible Sprinkler Hose is a unique sprinkler drop assembly comprised of a branchline adapter nipple, stainless steel flexible hose with two slip nuts, sprinkler reducer, and lightweight ceiling bracket components. (Ref. Figure 1.)

The FASTFLEX Flexible Sprinkler Hose can be installed in false ceilings without cutting and threading pipes associated with installing a drop, armover, and elbows. FASTFLEX makes it possible to test and charge the system with water before the ceiling grid is installed. Once the ceiling grid is in position, the FASTFLEX hoses can be reshaped to suit the final sprinkler location without draining the system.

FASTFLEX Flexible Sprinkler Hose is installed quickly without large and expensive tools. Ideal projects are offices, schools, libraries, hospitals, and shopping complexes. FASTFLEX sprinkler hoses are for use on wet pipe, preaction, and dry pipe systems. The FASTFLEX hose can also be used in conjunction with ultra-low flow water mist nozzles following the design criteria outlined in this technical data sheet.

#### NOTICE

The FASTFLEX flexible sprinkler hoses described herein must be installed and maintained in compliance with this document and with the applicable standards recognized by the Approval agency, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

# Technical Data

Approvals UL Listed FM Approved VdS Approved LPCB Approved

(Specific details for laboratory approvals are given in Table A, and the approvals apply to the service conditions indicated in the applicable Design Criteria sections)

APSAD accepted per Table A

CSTB accepted for all models and assembly lengths

#### Inlet Connections (Ref. Figure 1) ISO 7-R 1

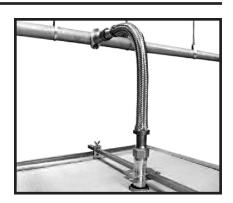
ISO 7-R 1 1/4

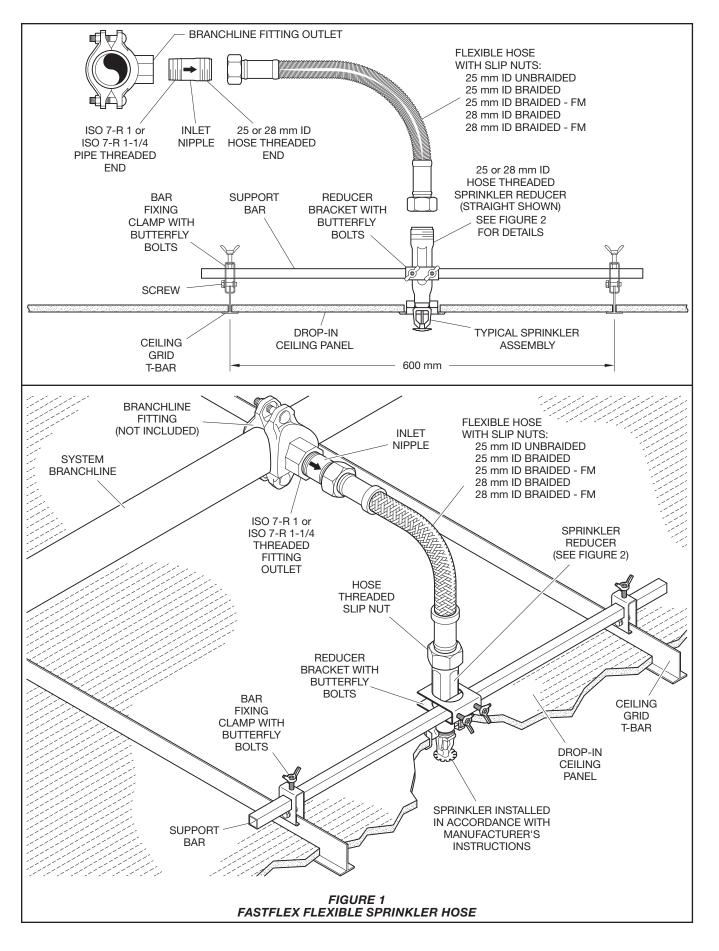
Outlet Connections (Ref. Figure 2) ISO 7-Rc 3/8 1/2 inch NPT

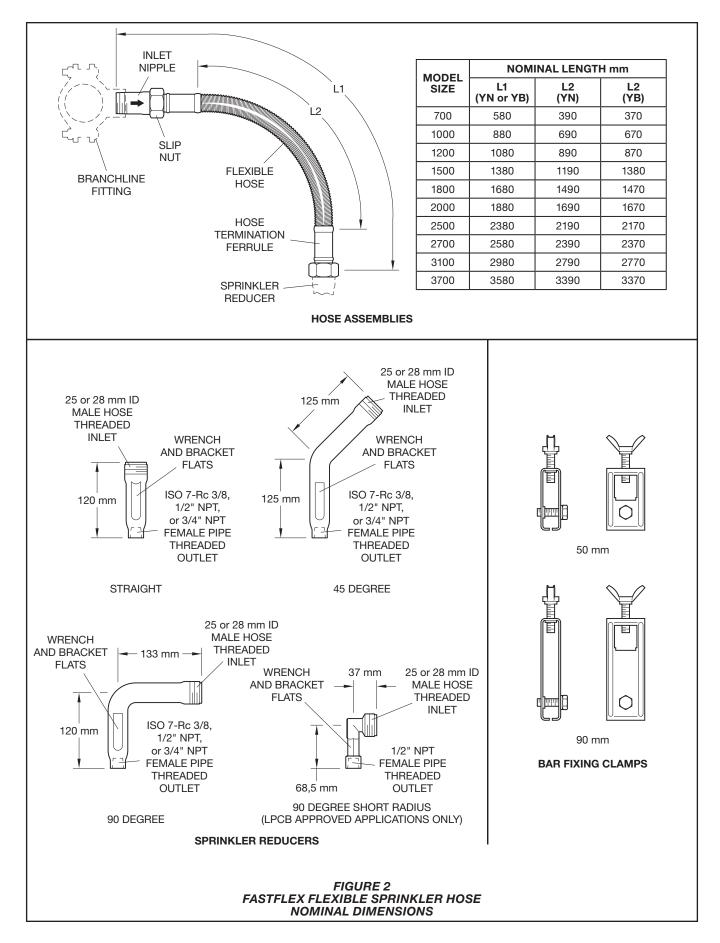
3/4 inch NPT

Nominal Assembly Lengths Ref. Table A

**Construction (Ref. Figure 1)** The Inlet Nipple is mild steel, and the Flexible Hose is SS AISI 304. The connection at each end of the Flexible Hose utilizes a brass Slip Nut, NBR/ CR o-ring, and Nylon W6 washer. The Sprinkler Reducer is mild steel. The Reducer Bracket, Bar Fixing Clamps, and Support Bar are pressed steel.







# **UL - Design Criteria**

- Refer to Table A for Model, Nominal Assembly Length, and Sprinkler Reducer combinations
- Wet-pipe systems only
- The hose and fittings have limited flexibility and are intended for direct connection to sprinklers in accordance with NFPA 13, 13D, or 13R
- · Maximum service pressure of 13 bar
- Maximum K80 (5.6K) for 1/2 inch NPT sprinklers or maximum K160 (11.2K) for 3/4 inch NPT sprinklers
- Maximum ambient temperature of 107°C for Model YB25 and YB28, or maximum ambient temperature of 148°C for Model YN25
- These connections are designed for use in ceilings with grids that meet ASTM C 635 (Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings) and ASTM C 636 (Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels) referenced by IBC. The three structural classifications are the following: Intermediate-Duty Systems and Heavy-Duty Systems. These connections have been approved for use in all Intermediate-Duty and Heavy-Duty structural classifications
- Minimum bend radius of 76 mm
- UL Friction Loss:

			YN25 and YB25	YB28			
Assembly Length in millimeters	Outlet (NPT)	Max. Number of 90° Bends*	Equivalent Length of DN25 Sch. 40 Pipe C=120 in meters	Equivalent Length of DN25 Sch. 40 Pipe C=120 in meters			
700	1/2	2	6,7	3,0			
700	3/4		8,5	4,9			
1000 1/2 3/4		2	9,8	4,9			
		2	11,6	7,0			
1200	1/2	2	12,5	6,1			
1200	3/4	2	14,6	7,6			
1500	1/2	2	14,9	7,0			
1500	3/4	2	16,5	8,5			
	1/2	2	18,3	7,9			
1800	1/2	3	20,4	9,8			
1000	3/4	2	20,4	10,1			
	3/4	3	22,6	11,6			

Information in this column indicates the maximum number of allowable bends and that hoses are installed with at least one bend.

# FM - Design Criteria

- Refer to Table A for Model, Nominal Assembly Length, and Sprinkler Reducer combinations
- · Wet pipe, preaction, and dry pipe systems
- Maximum service pressure of 12 bar
- Maximum K80 (5.6K) for 1/2 inch NPT sprinklers or maximum K115 (8.0K) for 3/4 inch NPT sprinklers
- Maximum ambient temperature of 107°C for Model YB25 and YB28
- Minimum ambient temperature of -40°C for Model YB25 and YB28 for use in dry pipe systems
- These connections are designed for use in ceilings with grids that meet ASTM C 635 (Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings) and ASTM C 636 (Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels) referenced by IBC. The three structural classifications are the following: Intermediate-Duty Systems and Heavy-Duty Systems. These connections have been approved for use in all Intermediate-Duty and Heavy-Duty structural classifications
- Minimum bend radius of 152 mm for Model YB28 or 203 mm for Model YB25

			YB25	YB28
Assembly Length in millimeters	Outlet (NPT) Bends		Dutlet Number Length (NPT) of 90° of DN25	
700	1/2	1	14,1	7,7
	3/4	1	11,9	6,0
1000	1/2	1	16,4	12,2
	3/4	1	13,8	10,4
1200	1/2	2	22,4	15,2
	3/4	2	19,6	13,4
1500	1/2	3	27,4	17,6
	3/4	3	26,4	16,1
1800	1/2	4	34,4	20,0
	3/4	4	32,0	18,7

• FM Friction Loss for YB25 and YB28:

## VdS - Design Criteria

- Refer to Table A for Model, Nominal Assembly Length, and Sprinkler Reducer combinations
- · Wet-pipe systems only
- · Maximum service pressure of 16 bar
- Pendent sprinklers with nominal K57, K80, or K115
- Maximum ambient temperature of 107°C for YB25 and YB28
- Approved for use only in the following suspended ceilings:

Odenwald Systems- S3 & S15

Richter Systems- 11.1 - 11.5

Armstrong Systems- Board and Tegular with panel type "Prima Sahara"

API Systems- 15/38, 24/38, 24/60, 35/38, and 35/60 with panel type of a.m.

- VdS Friction Loss
- For compensation of pressure loss, the nominal assembly length is to be multiplied by 12. The resulting length will provide pressure drop in equivalent length DN20 (26,9 x 2,3 mm) seamless metal tube per DIN 2448
- Add 2,3 m when using a 45° or 90° sprinkler reducer
- Minimum bend radius of 55 mm
- The tube assembly may not have more than one 90° bend or four 15° bends

# **LPCB - Design Criteria**

- Refer to Table A for Model, Nominal Assembly Length, and Sprinkler Reducer combinations
- Wet-pipe systems only
- · Maximum service pressure of 16 bar
- Sprinklers with nominal K57, K80, or K115
- Maximum ambient temperature of 148°C for YN25
- Approved as a Type 2 hose of moderate flexibility in accordance with LPS 1261. They may be used in applications where little or no differential movement between the two ends is expected after installation (e.g., supply to single sprinklers in suspended ceilings)
- · Approved for the following locations:

Assembly Length in millimeters	Pre-Calculated Town Mains	Pre-Calculated Pumps	Fully Hydraulically Calculated
Up to 700	Yes	Yes	Yes
Up to 1200	No	Yes	Yes
Up to 3700	No	No	Yes

- All pipe work supplying FASTFLEX in pre-calculated systems shall be sized as distribution mains
- In suspended ceilings FASTFLEX must be installed in accordance with this data sheet
- In suspended ceiling, sprinkler reducer must be connected to the ceiling support system with brackets supplied. For other applications the installer must supply brackets to ensure sprinkler is secure
- Minimum bend radius of 55 mm
- LPCB Friction Loss for YN25:

Assembly Length in millimeters	Number of 90° Bends	Equivalent Length* of DN25 Sch. 40 Pipe C=120 in meters
700	2	8,9
1000	2	13,5
1200	2	11,9
1500	2	18,7
1800	3	24,7
2000	3	20,7
2500	3	21,7
2700	3	24,2
3100	3	25,9
3700	3	30,3

\* Add 2,3 meters when using a 45° or 90° sprinkler reducer.

			LPCB		VdS			FM			UL*			APSAD**			
Model	odel Type Len		Assembly Length in		50 and 90 mm Bar Fixing Clamp		50 and 90 mm Bar Fixing Clamp			50 mm Bar Fixing Clamp		50 and 90 mm Bar Fixing Clamp					
		millimeters			orinkler ucer Type		Sprinkler Reducer Type		Sprinkler Reducer Type			Sprinkler Reducer Type			prinkl ucer		
			<b>0</b> °	45°	90°	<b>0</b> °	45°	90°	<b>0</b> °	45°	90°	<b>0</b> °	45°	90°	<b>0</b> °	45°	90°
YN25-700	Un-braided	700	х	х	x							x			х		
YN25-1000	Un-braided	1000	х	х	х							х			х		
YN25-1200	Un-braided	1200	х	х	х							х			х		
YN25-1500	Un-braided	1500	х	х	х							х			х		
YN25-1800	Un-braided	1800	х	х	х							х					
YN25-2000	Un-braided	2000	х	х	х												
YN25-2500	Un-braided	2500	х	х	х												
YN25-2700	Un-braided	2700	х	х	х												
YN25-3100	Un-braided	3100	х	х	х												
YN25-3700	Un-braided	3700	х	х	х												
YB25-700	Braided	700				x	x	х				x					
YB25-1000	Braided	1000				х	x	х				х					
YB25-1200	Braided	1200				x	x	х				x					
YB25-1500	Braided	1500				х	x	х				х					
YB25-1800	Braided	1800			İ	х	x	х	İ	ĺ		х		İ			
YB25-2000	Braided	2000				х	x	х									
YB25-2500	Braided	2500				х	x	х									
YB25-700	Braided-FM	700							x								
YB25-1000	Braided-FM	1000							x								
YB25-1200	Braided-FM	1200							x								
YB25-1500	Braided-FM	1500							х								
YB25-1800	Braided-FM	1800			İ		ĺ		х	ĺ		ĺ		ĺ		İ	
YB28-700	Braided	700				x	x	х				x			x		
YB28-1000	Braided	1000				x	x	x				x			x		
YB28-1200	Braided	1200				x	x	х				x			x		
YB28-1500	Braided	1500				x	x	х				x			x		
YB28-1800	Braided	1800		İ	İ	x	x	х	İ	ĺ		x	ĺ	ĺ		İ	
YB28-2000	Braided	2000		İ	İ	x	x	х	İ	İ		İ	İ	İ		İ	
YB28-2500	Braided	2500			ĺ	х	x	х		Ì				ĺ		Ì	
YB28-700	Braided - FM	700							x								
YB28-1000	Braided - FM	1000							x								
YB28-1200	Braided - FM	1200							x								
YB28-1500	Braided - FM	1500							x								
YB28-1800	Braided - FM	1800							x								

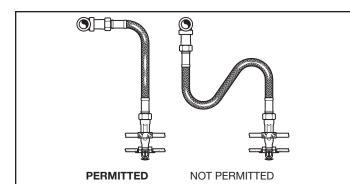
 Notes:

 x
 Indicates Listed or Approved as applicable.

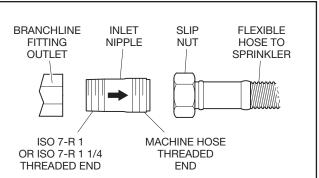
 \*
 UL Listing is based on the use of the ISO 7-R 1 Inlet Connection.

 \*\*
 Acceptance by APSAD is based on using the LPCB, VdS, FM Approved, or UL Listed Design Criteria as may be acceptable to the authority having jurisdiction.

TABLE A FASTFLEX SPRINKLER HOSE ASSEMBLY MODELS, ASSEMBLY LENGTHS, AND APPROVALS



**DO** route the FASTFLEX Flexible Hose to permit complete draining either back into the branch-line or through the sprinkler reducer.



**DO** assemble the FASTFLEX Inlet Nipple with the direction of flow arrow properly oriented to avoid mismatched threads.

FIGURE 3 FASTFLEX FLEXIBLE SPRINKLER HOSE INSTALLATION GUIDANCE

# Installation

The TYCO FASTFLEX Flexible Sprinkler Hose as shown in Figure 1, must be installed in accordance with this section.

#### NOTICE

Flexible Hoses are intended only to connect sprinklers directly to system piping (Ref. Figure 1). Flexible Hoses cannot be joined together to form longer hoses. Joining Flexible Hoses together creates an assembly with unknown performance that has not been accounted for in system calculations or safe product performance.

**Step 1.** Review the Design Criteria section that applies to the Approval agency recognized by the authority having jurisdiction, as well as Figure 3 that provides installation guidance.

**Step 2.** Determine the approximate place where the sprinkler will be located. The Support Bar is 700 mm long and shall be mounted on the 600 mm width of the ceiling grid. The sprinkler should be located as close as possible to the center of the distance between ceiling grid T-bars.

**Step 3.** Slide the Reducer Bracket onto the Support Bar. Loosely attach the Reducer Bracket and the two Bar Fixing Clamps on the Support Bar and place the Bar Fixing Clamps such that the Support Bar crosses the location where the sprinkler will be located.

**Step 4.** Attach one end of the Flexible Hose onto the sprinkler reducer. Applying the wrench to the Slip Nut, and not to the Flexible Hose, tighten to a maximum torque of 35 Nm. **Step 5.** Attach the Inlet Nipple on to the branch line. Ensure that the arrow is in the appropriate direction of flow to the sprinkler and to use pipe thread sealant at the connection to the branch line.

Attach one end of the Flexible Hose on to the Inlet Nipple. Applying the wrench to the Slip Nut, and not to the Flexible Hose, tighten to a maximum torque of 35 Nm. Do not twist the Flexible Hose.

**Step 6.** Bend the Flexible Hose into a curve(s) that locates the Sprinkler Reducer at the other end of the Flexible Hose in the area where the sprinkler will be located. The tube arc should not be twisted, and the arc should be as large and smooth as possible.

#### NOTICE

For minimum bend criteria, refer to the Design Criteria section that applies to the Approval agency recognized by the authority having jurisdiction.

A bend radius smaller than provided by the minimum bend criteria may adversely effect the friction loss specifications stated by the approval laboratory.

For assembly lengths greater than 1800 mm the Flexible Hose shall be supported to the structure to ensure that the maximum unsupported length does not exceed 1800 mm. In these cases, it is recommended that the tube be secured to a fixed mounting point every 600 mm, in order to provide a more stable installation.

**Step 7.** Insert the Sprinkler Reducer into the Reducer Bracket. Locate the Reducer Bracket and Sprinkler Reducer where the sprinkler will be, and loosely tighten the Butterfly Bolt on the Reducer Bracket. **Step 8.** Attach the sprinkler to the Sprinkler Reducer. Put a wrench on the Sprinkler Reducer to counteract the tightening torque and prevent the Flexible Hose from twisting. Reference the sprinkler manufacturer's sprinkler data sheet for appropriate sprinkler tightening torque, sprinkler wrench, and other guidance.

**Step 9.** Verify that the Sprinkler Reducer is seated in the Reducer Bracket. Precisely locate the sprinkler in all three axes in accordance with the sprinkler manufacturer's data sheet. Tighten the Butterfly Bolts on the Bar Fixing Clamps and the Reducer Bracket. The tightening torque for the Bar Fixing Clamp fastener is 4,5 to 5,7 Nm, and the tightening torque for the Reducer Bracket fastener, is a minimum of 2,3 Nm.

**Step 10.** After tightening all the Butterfly Bolts, verify that the sprinkler is properly located in accordance with the manufacture's instructions. If not, loosen the Butterfly Bolts and readjust as required.

# **Care and Maintenance**

The TYCO FASTFLEX Flexible Sprinkler Hose must be maintained and serviced in accordance with this section.

Before closing a fire protection system control valve for inspection or maintenance work on the fire protection system that it controls, permission to shut down the effected fire protection system must first be obtained from the proper authorities and all personnel who may be affected by this action must be notified.

After placing a fire protection system in service, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the authorities having jurisdiction. Contact the installing contractor or product manufacturer with any questions.

Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.

## Limited Warranty

For warranty terms and conditions, visit www.tyco-fire.com.

# Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name and Part Number (P/N).

#### **Flexible Hose Assembly**

The FASTFLEX Flexible Hose Assembly includes Flexible Hose, ISO 7-R 1 x Hose Thread Inlet Nipple, 1/2" NPT x Hose Thread Straight Sprinkler Reducer, Reducer Bracket, Bar Fixing Clamps, and Support Bar.

**Note:** Refer to Table A for Model, Type, Length, Bar Fixing Clamp options, and Approval details.

Specify: Model (specify) FASTFLEX Flexible Sprinkler Hose Assembly, Type (specify), (specify) length, (specify) Bar Fixing Clamp, P/N (specify):

#### Model YN25, Un-braided, 50 mm Clamps

700	YN250700
1000	
1200	
1500	
1800	
2000	
2500	
2700	
2700	
3100	YN253100
3700	YN253700
Model YN25, Un-braided, 90 mm	
700	. YN250700C
1000	. YN251000C
1200	. YN251200C
1500	YN251500C
1800	
2000	YN252000C
2500	
2700	
3100	VN252100C
3700	. HN253100C
Model YB25, Braided, 50 mm Cla	
700	YB250700
1000	YB251000
1200	YB251200
1500	VDOFICOO
1300	YB251500
1800	YB251800
1800	YB251800
1800 2000 2500	YB251800 YB252000 YB252500
1800	YB251800 YB252000 YB252500
1800	YB251800 YB252000 YB252500 /ed
1800	YB251800 YB252000 YB252500 /ed YB250700-F
1800	YB251800 YB252000 YB252500 /ed .YB250700-F .YB251000-F
1800	YB251800 YB252000 YB252500 /ed .YB250700-F .YB251000-F .YB251200-F
1800	YB251800 YB252000 YB252500 /ed .YB250700-F .YB251000-F .YB251200-F .YB251500-F
1800	YB251800 YB252000 YB252500 /ed .YB250700-F .YB251000-F .YB251200-F .YB251500-F
1800	YB251800 YB252000 YB252500 /ed .YB250700-F .YB251000-F .YB251200-F .YB251500-F .YB251800-F
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1200         1200         1500         1800         Model YB28, Braided, 50 mm Cla	YB251800 YB252000 YB252500 /ed .YB250700-F .YB251200-F .YB251200-F .YB251500-F .YB251500-F .YB251800-F
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1000         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700	YB251800 YB252000 YB252500 /ed .YB250700-F .YB251000-F .YB251200-F .YB251800-F .YB251800-F .YB251800-F .YB251800-F .YB251800-F
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1000         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1000         1000         1000         1000         1000         1000         1000         1000         1000	YB251800 YB252000 YB252500 <b>ved</b> .YB251000-F .YB251200-F .YB251200-F .YB251800-F <b>mps</b> YB280700 YB281000
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1000         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1000         1200         1200	YB251800 YB252000 YB252500 /ed YB251000-F .YB251200-F .YB251200-F .YB251800-F .YB251800-F YB281000 YB281200
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1200         1500         1800         1800         1800         1800         1000         1200         1200         1200         1200         1200         1200         1500	YB251800 YB252000 YB252500 /ed YB251200-F YB251200-F YB251500-F YB251500-F YB251800-F YB280700 YB281200 YB281500
1800	YB251800 YB252000 YB252500 /ed .YB251000-F .YB251200-F .YB251500-F .YB251800-F .YB251800-F .YB251800-F .YB281000 YB281200 YB281500 YB281800
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1000         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1800         1800         1000         1200         1500         1800         1000         1200         1500         1800         2000	YB251800 YB252000 YB252500 <b>ved</b> .YB251000-F .YB251200-F .YB251200-F .YB251800-F <b>mps</b> YB280700 YB281200 YB281200 YB281500 YB281800 YB281200 YB281200
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1000         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1000         1200         1500         1800         2000         1200         1200         1200         1200         1500         1800         2000         2500	YB251800 YB252000 YB252500 /ed .YB251000-F .YB251200-F .YB251300-F .YB251800-F .YB251800-F .YB281000 YB281200 YB281200 YB281800 YB281800 YB281200 YB281200 YB281200 YB281200
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1000         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1800         1800         1000         1200         1500         1800         1000         1200         1500         1800         2000	YB251800 YB252000 YB252500 /ed .YB251000-F .YB251200-F .YB251300-F .YB251800-F .YB251800-F .YB281000 YB281200 YB281200 YB281800 YB281800 YB281200 YB281200 YB281200 YB281200
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1200         1500         1800         2000         1500         1800         2000         2500         Model YB28, Braided, FM Approx         50 mm Clamps	YB251800 YB252000 YB252500 /ed .YB251200-F .YB251200-F .YB251800-F .YB251800-F .YB281800-F .YB281800 YB281200 YB281500 
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1000         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1800         Model YB28, Braided, 50 mm Cla         700         1200         1500         1800         2000         2500         Model YB28, Braided, FM Approx	YB251800 YB252000 YB252500 /ed .YB251200-F .YB251200-F .YB251800-F .YB251800-F .YB281800-F .YB281800 YB281200 YB281500 
1800       2000         2500       2500         Model YB25, Braided, FM Approx       50 mm Clamps         50 mm Clamps       700         1000       1200         1500       1800         Model YB28, Braided, 50 mm Cla         700       1000         1800       2000         1200       1500         1800       2000         1200       1500         1800       2000         2500       Model YB28, Braided, FM Approx         500 mm Clamps       700         700       1000	YB251800 YB252000 YB252500 /ed .YB251000-F .YB251200-F .YB251500-F .YB251800-F .YB281800-F .YB281800- YB281200 YB281500 YB281500 YB281500 YB282500 /ed, YB280700-F .YB281000-F
1800       2000         2500       2500         Model YB25, Braided, FM Approx       50 mm Clamps         50 mm Clamps       700         1000       1200         1500       1800         Model YB28, Braided, 50 mm Cla         700       1000         1800       2000         1200       1500         1800       2000         1200       1500         1800       2000         2500       Model YB28, Braided, FM Approx         500 mm Clamps       700         700       1000	YB251800 YB252000 YB252500 /ed .YB251000-F .YB251200-F .YB251500-F .YB251800-F .YB281800-F .YB281800- YB281200 YB281500 YB281500 YB281500 YB282500 /ed, YB280700-F .YB281000-F
1800         2000         2500         Model YB25, Braided, FM Approx         50 mm Clamps         700         1200         1500         1800         Model YB28, Braided, 50 mm Cla         700         1800         2000         1200         1500         1800         2000         2500         Model YB28, Braided, FM Approx         50 mm Clamps         700	YB251800 YB252000 YB252500 /ed .YB251000-F .YB251200-F .YB251800-F .YB251800-F .YB281000 YB281000 YB281000 YB281500 YB281500 YB282500 /ed, .YB280700-F .YB281000-F .YB281200-F

#### Accessories

#### Inlet Nipple

Specify: (25 mm or 28 mm) hose thread FASTFLEX Inlet Nipple with (ISO 7-R 1 or ISO 7-R 1 1/4) inlet thread connection, P/N (specify):

#### 25 mm Hose Thread

HOSENIP25
HOSENIP25R
HOSENIP28
HOSENIP28R

#### Sprinkler Reducer

Specify: (Straight, 45 Degree, or 90 Degree) for (25 mm or 28 mm hose threads) FASTFLEX Sprinkler Reducer with (ISO 7-Rc 3/8, 1/2 inch NPT, or 3/4 inch NPT) outlet thread connection, P/N (specify):

#### Straight

25 mm Hose Thread ISO 7-Rc 3/8 PBR120
1/2 inch NPT RBR120 3/4 inch NPT SBR120
28 mm Hose Thread           ISO 7-Rc 3/8         PBR28120           1/2 inch NPT         RBR28120           3/4 inch NPT         SBR28120
45 Degree         25 mm Hose Thread           ISO 7-Rc 3/8         PBAR45           1/2 inch NPT         RBAR45           3/4 inch NPT         SBAR45
28 mm Hose Thread           ISO 7-Rc 3/8         PB28AR45           1/2 inch NPT         RB28AR45           3/4 inch NPT         SB28AR45
90 Degree 25 mm Hose Thread
ISO 7-Rc 3/8
28 mm Hose Thread           ISO 7-Rc 3/8         PB28AR90           1/2 inch NPT         RB28AR90           3/4 inch NPT         SB28AR90
90 Degree Short Radius (LPCB Approved Only) 25 mm Hose Thread
1/2 inch NPT
Bar Fixing Clamps Specify: FASTFLEX (50 mm or 90 mm) Bar Fixing Clamps, P/N (specify):
50 mm RBF58T 90 mm RBF90T

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