



ADDITIONAL
PRODUCTS

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Additional
Products

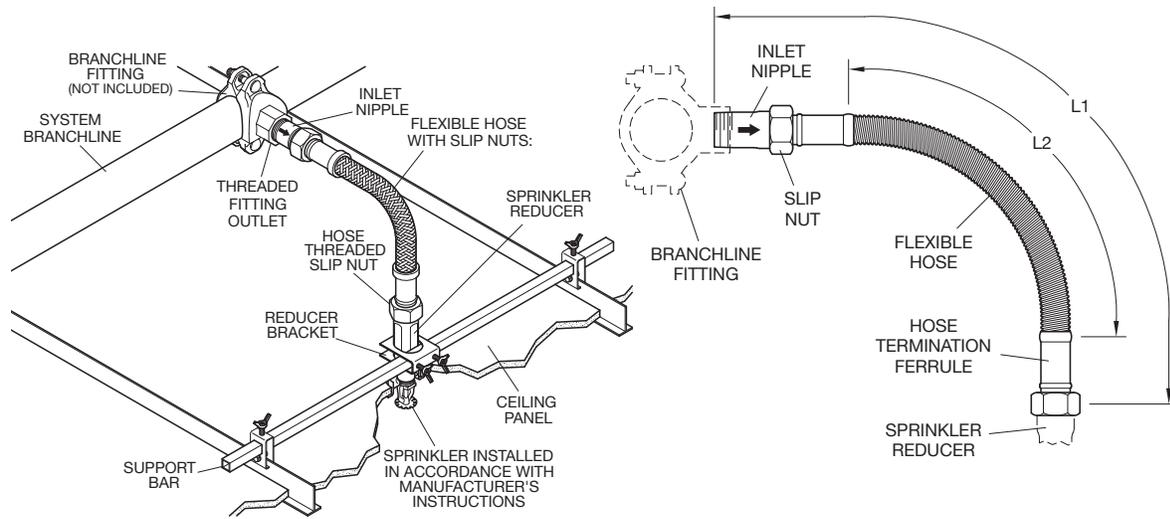
FASTFLEX Model YN25, YB25, and YB28 Flexible Sprinkler Hose

The Tyco® FASTFLEX is a unique sprinkler drop assembly comprised of the following: branchline adapter nipple, stainless steel flexible hose with two slip nuts, sprinkler reducer, and several different lightweight ceiling bracket components.

Using FASTFLEX can save time and costs since the system can be installed in false ceilings without cutting and threading pipes associated with installing a drop, armoover, 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.

Tech Data Sheet: TFP720

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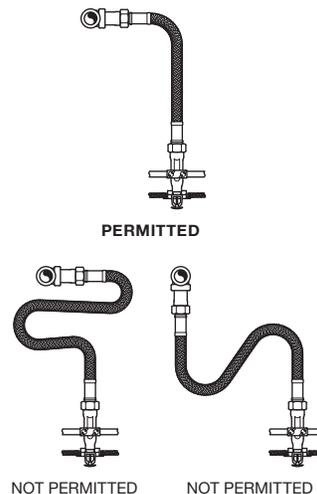
Part Number		Hose Length mm In.	Nominal Length mm (In.)			Approx. Weight kg Lbs.
Un-Braided	Braided		L1 (YN or YB)	L2 (YN)	L2 (YB)	
YN25700	YB25700	700 27.56	580 22.83	390 15.35	370 14.57	0.7 1.5
YN251000	YB251000	1000 39.37	880 34.65	690 27.17	670 26.38	0.9 2.0
YN251200	YB251200	1200 47.24	1080 42.52	890 35.04	870 34.25	1.0 2.2
YN251500	YB251500	1500 59.06	1380 54.33	1190 46.85	1380 54.33	1.2 2.6
YN251800	YB251800	1800 70.87	1680 66.14	1490 58.66	1470 57.87	1.4 3.1
YN252000	YB252000	2000 78.74	1880 74.02	1690 66.54	1670 65.75	1.6 3.5
YN252500	YB252500	2500 98.43	2380 93.70	2190 86.22	2170 85.43	1.9 4.2
YN252700	-	2700 106.30	2580 101.57	2390 94.09	2370 93.31	2.1 4.6
YN253100	-	3100 122.05	2980 117.32	2790 109.84	2770 109.06	2.4 5.3
YN253700	-	3700 145.67	3580 140.94	3390 133.46	3370 132.68	2.8 6.2

Available with BSP or NPT threads. Contact Tyco Technical Services for details.

Max Working Pressure

• 12,0 bar (175 psi)

Additional Products



Refer to back cover for country-specific contact information.

Figure UFBX Flexible Hoses

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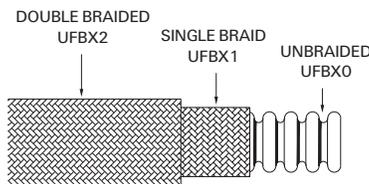
Specifically designed to meet the requirements of ISO 10380 flexibility class 1. Applications:

- Static installations (connect pipe work out of alignment)
- Occasional flexing
- Constant flexing
- Vibration (high frequency, low amplitude movement - compressor or pump)

These products are not approved for Sprinkler applications

Construction

The hoses are annularly corrugated formed from butt weld rigid tube. Depending on the application, required working pressure and conditions of operation, a single or double layer of wire braid is applied externally to the hose restrain to it, increasing its ability to withstand the pressure, increasing hoop strength and protection from abrasion. The extent of braiding, gauge and angle of lay is calculated carefully to maximize performance.



MATERIAL SPECIFICATIONS

Tube:

- BS1449 Part 2 (1983) 321S31 or 316S11, EN 10088-2 1.4541 or 14401 Monel 400 nickel alloy or bronze

Discs:

- 304 or BS154 (1990) 304S31 or 316S19

Shaft

- Carbon Steel

Part Number	ISO 10380		Hose Type	Max. OD mm In.	Bend Radius		Maximum Pressure			Approx. Weight Kg/M Lbs./Ft.
	mm	Nominal Pressure PN			Static mm In.	Flexing mm In.	Working bar psi	Test bar psi	Burst bar psi	
UFBX1-034	25	4	UFBX0	33.7 1.33	44 1.73	200 7.87	4.1 59.5	6.2 89.9	16.4 237.9	0.3 0.2
		50	UFBX1	35.8 1.41	85 3.35	200 7.87	50.0 725.2	75.0 1,087.8	200.0 2,900.8	0.7 0.5
		63	UFBX2	37.9 1.49	85 3.35	200 7.87	76.0 1,102.3	114.0 1,653.4	304.0 4,409.1	1.1 0.7
UFBX1-042	32	2.5	UFBX0	41.4 1.63	55 2.17	250 9.84	3.4 49.3	5.1 74.0	13.6 197.3	0.4 0.3
		25	UFBX1	43.2 1.70	105 4.13	250 9.84	39.0 565.6	59.0 855.7	156.0 2,262.6	0.9 0.6
		50	UFBX2	45.3 1.78	105 4.13	250 9.84	57.0 826.7	85.0 1,232.8	228.0 3,306.9	1.3 0.9
UFBX1-048	40	0.5	UFBX0	47.9 1.89	70 2.76	250 9.84	2.4 34.8	3.6 52.2	9.6 139.2	0.7 0.5
		25	UFBX1	50 1.97	127 5.00	250 9.84	35.0 507.6	53.0 768.7	140.0 2,030.5	1.2 0.8
		50	UFBX2	52.2 2.06	127 5.00	250 9.84	55.0 797.7	82.0 1,189.3	220.0 3,190.8	1.7 1.1
UFBX1-060	50	0.5	UFBX0	62.1 2.44	90 3.54	350 13.78	1.0 14.5	1.5 21.8	4.0 58.0	0.8 0.6
		25	UFBX1	64.2 2.53	160 6.30	350 13.78	30.0 435.1	45.0 652.7	120.0 1,740.5	1.5 1.0
		40	UFBX2	66.3 2.61	160 6.30	350 13.78	44.0 638.2	66.0 957.2	176.0 2,552.7	2.3 1.5
UFBX1-076	65	0.5	UFBX0	76.5 3.01	110 4.33	410 16.14	1.0 14.5	1.5 21.8	4.0 58.0	1.9 1.3
		25	UFBX1	78.6 3.09	200 7.87	410 16.14	26.0 377.1	39.0 565.6	104.0 1,508.4	2.8 1.9
		40	UFBX2	80.7 3.18	200 7.87	410 16.14	46.0 667.2	69.0 1,000.8	184.0 2,668.7	3.7 2.5

Additional Products

Shock Pressure

Pulsating, surge of shock pressures considerably affect hose longevity and if encountered, peak pressure must not exceed 50% of the maximum working pressure.

Pressure Loss

To achieve the same pressure loss as in steel pipes, the diameter of the corrugated hose should be increased by 15%.

Design and Installation Considerations

Flexing is usually in accordance with one or a combination of the types of motion shown below. The formula given are provide to help determine the length of hose required to prevent flexing below the minimum bend radius, thereby ensuring maximum reliability.

Design

Avoid sharp bends and torsional twisting. Keep flexing in one plane.

- L = Minimum live length excluding end fitting
- R = minimum bend radius
- M = Movement
- $\pi = 3.142$
- X = Extra non-flexed length of hose (given below)

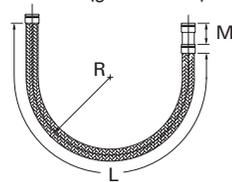


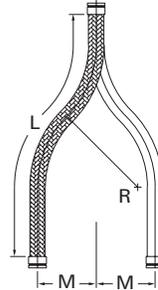
Figure UFBX Flexible Hoses

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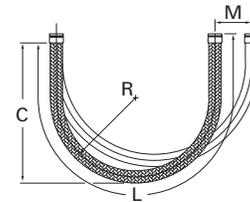
Offset or lateral movement

- $\Rightarrow L = X + \sqrt{R \times M \times N}$
- N for static offset = 5
- N for dynamic one way = 10
- N for dynamic two way = 20



Vertical loop - Vertical travel

- $\Rightarrow L = X + \pi R + \frac{1}{2}M$
- $\Rightarrow L = \frac{1}{2}L + \frac{1}{2}\pi R + R$



Vertical loop - Vertical travel $\Rightarrow L = X + \sqrt{R + \frac{1}{2}M}$

ID	6	10	15	20	25	32	40	50	65	80
x	50	75	100	125	150	175	200	250	275	300

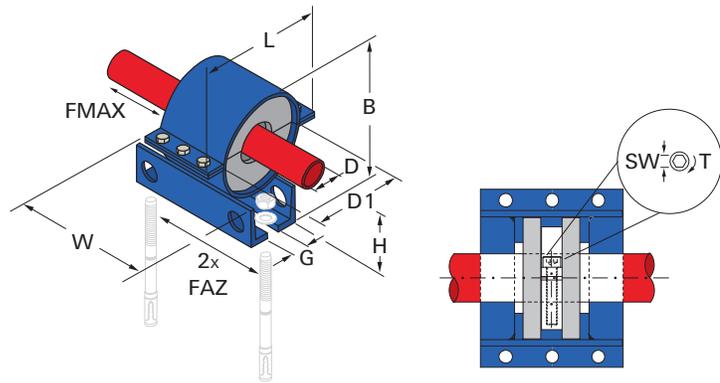
Part Number	ISO 10380		Hose Type	Max. OD mm In.	Bend Radius		Maximum Pressure			Approx. Weight Kg/M Lbs./Ft.
	mm	Nominal Pressure PN			Static mm In.	Flexing mm In.	Working bar psi	Test bar psi	Burst bar psi	
UFBX1-089	80	0.5	UFBX0	89.8 3.54	130 5.12	450 17.72	1.0 14.5	1.5 21.8	4.0 58.0	2.3 1.5
		20	UFBX1	91.9 3.62	230 9.06	450 17.72	22.0 319.1	33.0 478.6	88.0 1,276.3	3.4 2.3
		40	UFBX2	94.1 3.70	230 9.06	450 17.72	40.0 580.2	60.0 870.2	160.0 2,320.6	4.5 3.0
UFBX1-114	100	0.5	UFBX0	126 4.96	200 7.87	560 22.05	0.7 10.0	1.0 15.1	2.8 40.6	2.8 1.9
		16	UFBX1	129 5.08	230 9.06	560 22.05	18.4 266.9	27.6 400.3	73.6 1,067.5	4.6 3.1
		25	UFBX2	132 5.20	230 9.06	560 22.05	33.0 478.6	49.5 717.9	132.0 1,914.5	6.4 4.3
UFBX1-139	125	0.5	UFBX0	151 5.94	250 9.84	710 27.95	0.7 10.0	1.0 15.1	2.8 40.6	4.7 3.2
		10	UFBX1	153 6.02	280 11.02	710 27.95	11.5 166.8	17.3 250.9	46.0 667.2	6.6 4.4
		20	UFBX2	156 6.14	280 11.02	710 27.95	20.7 300.2	31.0 449.6	82.8 1,200.9	8.5 5.7
UFBX1-168	150	0.5	UFBX0	178 7.01	290 11.42	815 32.09	0.6 8.0	0.8 12.0	2.2 31.9	5.5 3.7
		10	UFBX1	180 7.09	320 12.60	815 32.09	11.2 162.4	16.8 243.7	44.8 649.8	7.7 5.2
		20	UFBX2	183 7.20	320 12.60	815 32.09	20.0 290.1	30.0 435.1	80.0 1,160.3	9.9 6.7
UFBX1-219	200	-	UFBX0	232 9.13	40 1.57	1015 39.96	0.3 4.5	0.5 6.7	1.2 18.0	7.3 4.9
		6	UFBX1	235 9.25	435 17.13	1015 39.96	7.0 101.5	11.0 159.5	28.0 406.1	10.0 6.7
		10	UFBX2	237 9.33	435 17.13	1015 39.96	10.0 145.0	15.0 217.6	40.0 580.2	13.0 8.7
UFBX1-273	250	-	UFBX0	287 11.30	490 19.29	1220 48.03	0.3 3.6	0.4 5.4	1.0 14.5	9.2 6.2
		6	UFBX1	292 11.50	560 22.05	1220 48.03	9.6 139.2	14.4 208.9	38.4 556.9	14.7 9.9
		-	UFBX2	-	-	-	-	-	-	-

Note: The values given above are for factory braided and assembled units and are given as an aid to hose selection. For unbraided applications or if the hose is to form an assembly used at the extreme of one or more of the characteristics below, please discuss the application with our application engineering department.

Additional Products

Figure HERCULES Fix Point

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Part Number		Nominal Size mm In.	Fmax kN lbs	Dimensions - mm In.					Type (2 Required)	SW mm In.	T Nm Lbf/Ft
T < +120° C	T < +220° C			H mm In.	W mm In.	L mm In.	B mm In.	D1 mm In.			
1501151	1502151	15 -	5 1,124	72 2.83	140 5.51	120 4.72	115 4.53	74 2.91	FAZ 12/10	5 0.20	15 1.03
1501181	1502181	18 3/8	5 1,124	72 2.83	140 5.51	120 4.72	115 4.53	74 2.91	FAZ 12/10	5 0.20	15 1.03
1501221	1502221	22 1/2	5 1,124	72 2.83	140 5.51	120 4.72	115 4.53	74 2.91	FAZ 12/10	5 0.20	15 1.03
1501281	1502281	28 3/4	5 1,124	72 2.83	140 5.51	120 4.72	115 4.53	74 2.91	FAZ 12/10	5 0.20	15 1.03
1501352	1502352	35 1	5 1,124	85 3.35	140 5.51	140 5.51	135 5.31	92 3.62	FAZ 12/10	5 0.20	15 1.03
1501422	1502422	42 1 1/4	5 1,124	85 3.35	140 5.51	140 5.51	135 5.31	92 3.62	FAZ 12/10	5 0.20	15 1.03
1501483	1502483	48 1 1/2	8 1,798	100 3.94	160 6.30	175 6.89	170 6.69	125 4.92	FAZ 16/20	6 0.24	30 2.06
1501543	1502543	54 -	8 1,798	100 3.94	160 6.30	175 6.89	170 6.69	125 4.92	FAZ 16/20	6 0.24	30 2.06
1501573	1502573	57 -	8 1,798	100 3.94	160 6.30	175 6.89	170 6.69	125 4.92	FAZ 16/20	6 0.24	30 2.06
1501603	1502603	60 2	8 1,798	100 3.94	160 6.30	175 6.89	170 6.69	125 4.92	FAZ 16/20	6 0.24	30 2.06
1501764	1502764	76 2 1/2	11 2,473	115 4.53	180 7.09	205 8.07	190 7.48	150 5.91	FAZ 16/20	6 0.24	30 2.06
1501894	1502894	89 3	11 2,473	115 4.53	180 7.09	205 8.07	190 7.48	150 5.91	FAZ 16/20	6 0.24	30 2.06
1501145	1502145	114 4	10 2,248	158 6.22	200 7.87	280 11.02	260 10.24	205 8.07	FAZ 16/20	8 0.31	60 4.11
1501405	1502405	140 5	10 2,248	158 6.22	200 7.87	280 11.02	260 10.24	205 8.07	FAZ 16/20	8 0.31	60 4.11
1501686	1502686	150 6	30 6,744	310 12.20	200 7.87	355 13.98	-	275 10.83	FAZ 20/60	-	-
1501197	1502197	200 8	30 6,744	330 12.99	200 7.87	404 15.91	-	324 12.76	FAZ 20/60	-	-
150738	1502738	250 10	30 6,744	370 14.57	200 7.87	487 19.17	-	407 16.02	FAZ 20/60	-	-

Additional
Products

Figure FAZ Anchor

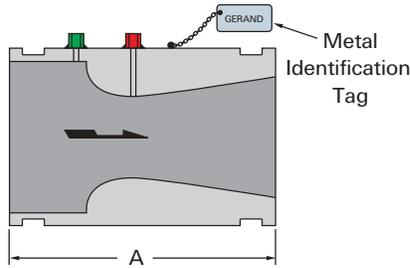
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WARRANTY



Part Number	Type	Approx. Weight Kg. Lbs.
1761201	FAZ 12/10	0.096 0.212
1761602	FAZ 16/20	0.223 0.492
1772003	FAZ 20/60	0.421 0.928

Figure Venturi, Flow Meter Butt Weld with Grooved Ends

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Part Number	Pipe Size		Max. Wk Pressure psi bar	Pump Capacity LPM GPM	Flow Range LPM GPM	A mm In.	Required straight pipe length		Approx Weight Kg. Lbs.
	Nominal mm In.	O.D. mm In.					Before mm In.	After mm In.	
K010000734	65	73.0	34.5	379	189-757	101.6	365	146	4.0
	2-1/2	2.875	500	100	50-200	4.00	14.37	5.75	8.8
K015000894	80 3	88.9 3.500	34.5 500	568	284-1135	111.1	445	178	8.0
150				75-300	4.37	17.52	7.01	17.6	
757				378-1514	111.1	445	178	8.0	
K020000894				200	100-400	4.37	17.52	7.01	17.6
K025001144	100 4	114.3 4.500	34.5 500	946	473-1892	95.3	570	228	8.0
250				125-500	3.75	22.44	8.98	17.6	
1.136				567-2271	95.3	570	228	8.0	
300				150-600	3.75	22.44	8.98	17.6	
1.703				851-3406	95.3	570	228	8.0	
450				225-900	3.75	22.44	8.98	17.6	
K050001414	125	141.3	34.5	1.893	946-3785	127	695	278	8.5
	5	5.563	500	500	250-1000	5.00	27.36	10.94	18.7
K075001684	150 6	168.3 6.625	34.5 500	2.839	1419-5677	152.4	840	336	8.5
750				375-1500	6.00	33.07	13.23	18.7	
3.785				1892-7570	152.4	840	336	8.5	
K100001684				1,000	500-2000	6.00	33.07	13.23	18.7
K125001684				4.731	2365-9462	152.4	840	336	8.5
				1,250	625-2500	6.00	33.07	13.23	18.7
K150002194	200 8	219.1 8.625	34.5 500	5.678	2838-11355	177.8	1095	438	10.5
1,500				750-3000	7.00	43.11	17.24	23.1	
7.570				3785-15140	177.8	1095	438	10.5	
2,000				1000-4000	7.00	43.11	17.24	23.1	
9.463				4731-18925	177.8	1095	438	10.5	
2,500				1250-5000	7.00	43.11	17.24	23.1	
K300002194				11.355	5677-22710	177.8	1095	438	10.5
				3,000	1500-6000	7.00	43.11	17.24	23.1
K350002734	250 10	273.0 10.750	34.5 500	13.248	6623-26495	203.2	1365	546	13.0
3,500				1750-7000	8.00	53.74	21.50	28.7	
15.140				7570-30280	203.2	1365	546	13.0	
4,000				2000-8000	8.00	53.74	21.50	28.7	
17.033				8516-34065	203.2	1365	546	13.0	
K450002734				4,500	2250-9000	8.00	53.74	21.50	28.7
K500003244	300	323.9	34.5	18.925	9462-37850	304.8	1620	648	18.0
	12	12.750	500	5,000	2500-10000	12.00	63.78	25.51	39.7

Note: End Connections: provided with butt weld and grooved ends
 Gauge: 114mm (4 1/2") dual scale LPM/GPM
 Body material: Steel
 Approval: FM

Additional
Products

Fire Suppression Systems Sprinklers & Valves Overview

(Page 1 of 3)

Tyco Fire Protection Products is the leading manufacturer and distributor of water-based fire suppression systems and components, offering one of the broadest lines of fire protection system equipment worldwide. Continually expanding our capabilities through proactive research and product development, it provides its customers with effective fire protection and construction solutions for residential, commercial, industrial, and institutional buildings. If required, products can be engraved, assembled or otherwise modified according to your own specifications. In our Assembly Shop we can pre-trim any type of alarm valve to local specific requirement. Each valve assembly is functionally and hydrostatically tested before it leaves

our facilities. We can assist you to find safe and efficient solutions when using our products. We can provide technical support, training and courses.

Tyco Fire Protection Products manufactures and supplies, for installation by others, all necessary components for dry and wet riser systems. The dry riser system is only charged with water when in use, whereas the wet riser system is permanently connected to a water supply. All components are manufactured strictly to relevant British Standards.

For the latest and more detailed information about our product approvals or innovations, please visit us at:

**www.tffpemea.com or www.tyco-fire.com or
order our complete water based fire protection catalogue.**

Standard/Extended Coverage Sprinklers



Storage Sprinklers



Residential Sprinklers & Dry Sprinklers



Special Sprinklers & Multiple Jet Controls



Nozzles & Sprinkler Accessories



AquaMist Systems



Wet & Dry System Alarm Valves



Deluge & Pre-Action System Alarm Valves



Accessories, Measuring & Electrical Devices



Additional Products

Fire Suppression Systems Dry Risers, Valve Cabinets, Foam Systems, & Design Software

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Tyco Fire Protection Products supplies 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 custom designed by our engineers, pre-wired, tested and the water inlet and outlets to the valve riser are grooved to provide minimal installation time.

As the leading fire protection company we are able to solve almost every challenge in fire protection, good examples are our foam systems for challenges where water based systems are not an option, hydrants for use by the fire fighters and even software like sprinkCAD to help our customers designing the best systems.

For the latest and more detailed information about our product approvals or innovations, please visit us at:

www.tfpemea.com or www.tyco-fire.com or www.sprinkcad.com
or order our complete water based fire protection catalogue.

Shut-off, Check, & General Purpose Valves



Modular Sprinkler Valve Cabinets



Hydrants and Postindicators



CPVC Pipes & Fittings / MLC-S Pipe Systems



Dry Riser Inlet Breeching



Gate Valves (BSP) & Fire Connections



Additional
Products

Foam Agents & Proportioning Equipment



Tanks & Inductors Foam Discharge Devices



Technical Support, Project Design & Analysis



Fire Suppression Systems Support Systems Overview

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Tyco Fire Protection Products' new range of Standard Sprinkler Supports is the result of close co-operation between manufacturer, engineer, distributor and client. This complete range of Sprinkler Support products comes with approvals including FM, UL, VdS or LPCB, based on the requirements of your market.

These products offer innovative solutions to many problems you encounter to support Fire Protection services. The standard Sprinkler Supports can be pre-assembled in house and our Technical and Design Services department can assist you in finding the best Sprinkler Support Solution. Detailed technical Catalogue and CD-ROM are available on request.

The Standard Sprinkler Support Systems range contains the following product lines:



Issue 03, 04, 07
Cert No. 570, 669, 673

Kwikstrut Framing System



Cantilever & Angel Brackets



Sprinkler Hangers



Base Plates & Side Beam Attachments



U-Bolts & Channel Pipe Clips



Seismic Bracing Products



Fixings onto Steel Beams & Roofs



Anchors & Holesaw



Sammy Screws



Bolts, Nuts & Threaded rods



Additional Products