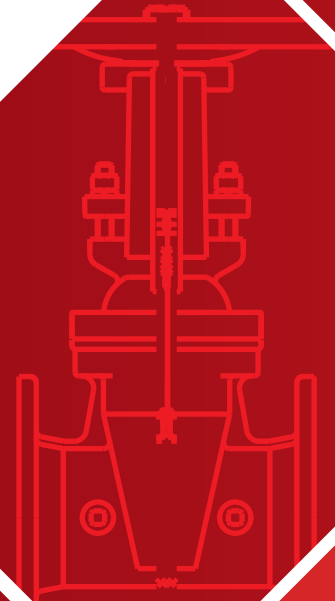
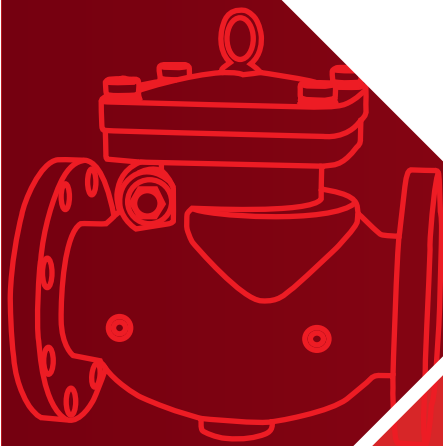


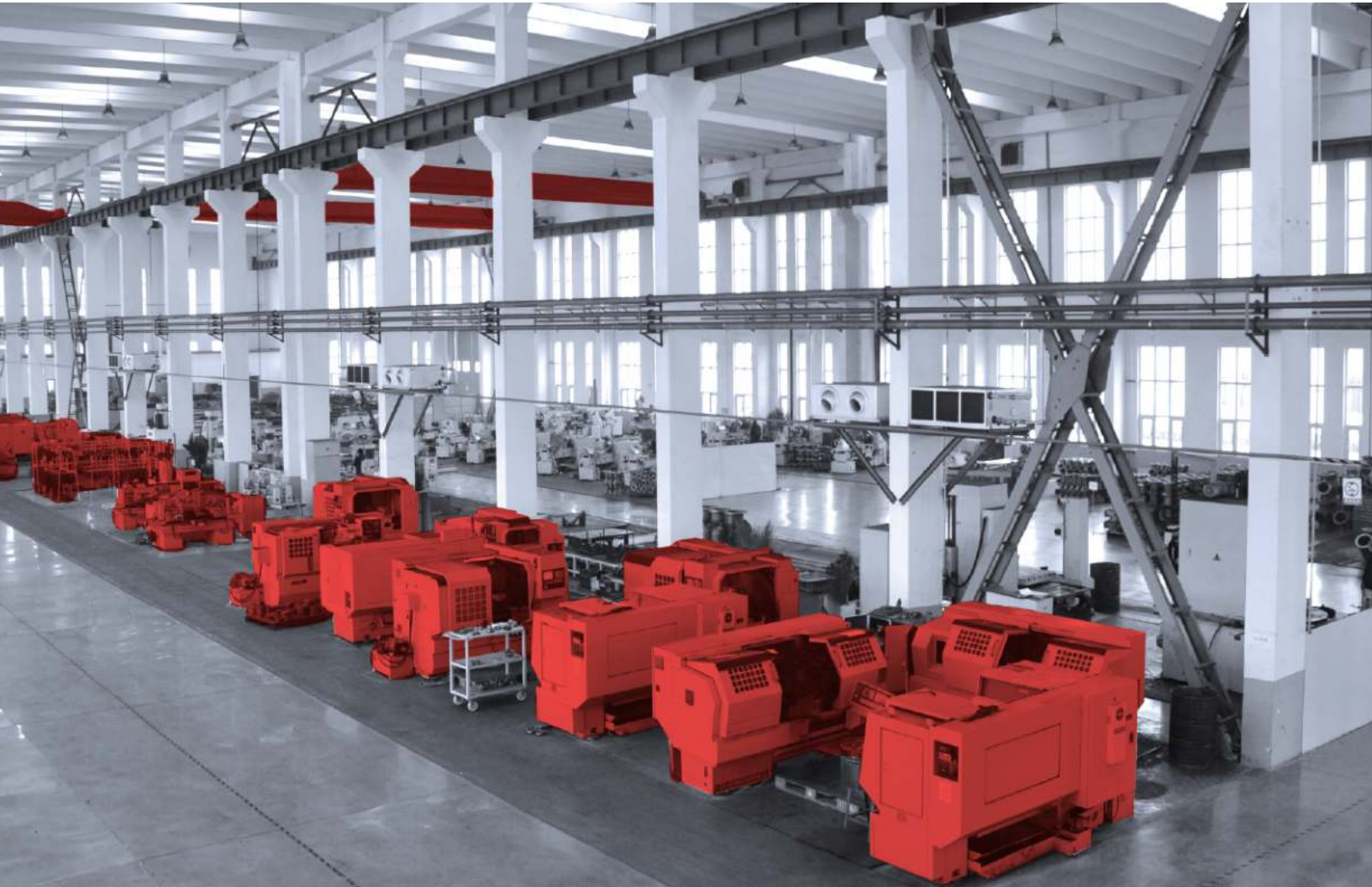


fivalco®



PRODUCT CATALOGUE FIRE PROTECTION

A truly world class manufacturer serving Global Markets



A True Manufacturer

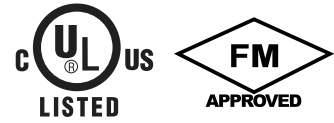
Fivalco is an inventor and leading manufacturer of superior flow control products. Our products are designed-tested and certified by the leading testing agencies, including the Underwriters Laboratories (UL), Factory Mutual (FM), Water Regulations Approval Scheme (WRAS), National Sanitation Foundation (NSF) and etc, based on a wide range of global standards.

Founded in 1985 by Sir Michael J.Graham in California, USA, we have dedicated ourselves to the production of critical flow control products, serving the critical Fire Protection, Heating, Ventilation & Air Conditioning (HVAC), General Process Industries, Water Supply & Water Treatment markets worldwide.

We operate from our main facilities utilising the latest manufacturing technologies and equipment available to produce world class flow control products. We strive to continue to provide the highest quality products to discerning customers at all times.

FEATURES & SPECIFICATIONS

- QF-600 : Unbraided Hose
- QF-1000 : Braided Hose
- QF-1000E : Braided Hose With Elbow Nipple
- Anchoring components are intended for use with drop ceilings conforming to ASTM C635 and other major
- Standards when installed in accordance with the Standard Practice for installation Metal Ceiling Suspension
- Systems for Acoustical Tile and Lay-In Panels, ASTM C636 or other equivalent standards.

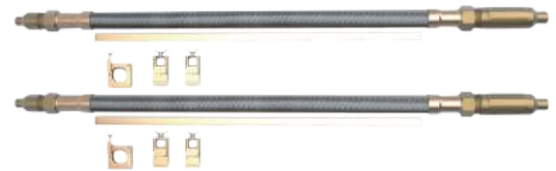


TECHNICAL DATA

- Rated Pressure : 200psi
- Maximum Ambient Temperature : 225(°F), 107(°C)
- Connection : DN25*DN15 or DN20 (1" x 1/2" or 3/4"), NPT or BSPT
- Hose Diameter : O.D. 26.8mm / 1 1/15" Flow: 22.5mm / 7/8"
- Designed for use in Wet and Dry Systems

MAIN COMPONENTS & MATERIALS LIST

DET	QTY	Name	Material
1	1	Corrugated Tube	AISI 304 Stainless Steel
2	1	Discharge Nipple(Elbow)	Galv. Steel ASTM 1020
3	1	Inlet Nipple	Galv. Steel ASTM 1020
4	2	Hexagon Slip Nut	Galv. Steel ASTM 1020
5	2	Gasket	EPDM
6	2	Isolation Ring	Nylon 66
7	1	Center Bracket	Galv. Steel ASTM A283 Gr. D
8	2	Side Bracket	Galv. Steel ASTM A283 Gr. D
9	1	Square Bar	Galv. Steel ASTM A283 Gr. B
10	1 Set	Bolts & Screws	Galv. Steel ASTM A283 Gr. D



Assembling Length	In-&Outlet Head Size	Max. number of 90° bends	Min bending radius	Equivalent Length of DN25/1" Sch. 40 Pipe at C=120 in
mm inch	DN in.	n x 90°	mm inch	QF-600 With straight discharge Nipple*
700	25x15	1	100	5.5
28	1"x1/2"		4	18
1000	25x15	2	100	10
40	1"x1/2"		4	33
1200	25x15	2	100	13
48	1"x1/2"		4	43
1500	25x15	3	100	19.2
60	1"x1/2"		4	63
1800	25x15	4	100	23.8
72	1"x1/2"		4	78
700	25x20	1	100	7.3
28	1"x3/4"		4	24
1000	25x20	2	100	12.5
40	1"x3/4"		4	41
1200	25x20	2	100	14
48	1"x3/4"		4	46
1500	25x20	3	100	19.5
60	1"x3/4"		4	64
1800	25x20	4	100	24.4
72	1"x3/4"		4	80

Assembling Length	In-&Outlet Head Size	Max. number of 90° bends	Min bending radius	Equivalent Length of DN25/1" Sch. 40 Pipe at C=120 in	
mm inch	DN in.	n x 90°	mm inch	QF-1000 With	QF-1000E With 90° elbow discharge
700	25x15	1	250	8.1	8
28	1"x1/2"		10	26.7	26.5
1000	25x15	3	250	12.9	12.4
40	1"x1/2"		10	42.6	40.8
1200	25x15	3	250	16.2	15.4
48	1"x1/2"		10	53.2	50.4
1500	25x15	4	250	20.6	20
60	1"x1/2"		10	67.8	65.7
1800	25x15	4	250	25.1	24.6
72	1"x1/2"		10	82.4	81
700	25x20	1	250	6.5	5.1
28	1"x3/4"		10	21.5	16.8
1000	25x20	3	250	12	10.4
40	1"x3/4"		10	39.5	34.2
1200	25x20	3	250	15.7	13.9
48	1"x3/4"		10	51.6	45.8
1500	25x20	4	250	19.3	17
60	1"x3/4"		10	63.5	58.7
1800	25x20	4	250	22.9	21.7
72	1"x3/4"		10	75.4	71.5

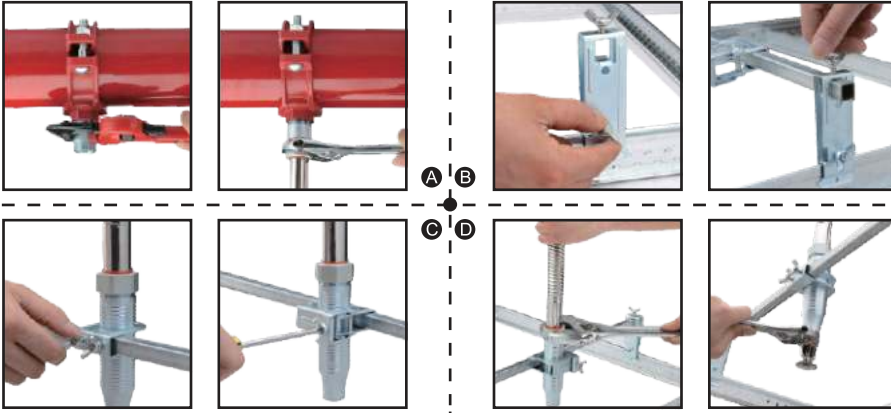
Results are tested & recorded by UL under minimum bending radius in maximum bending degrees.
Results are tested & recorded by FM approvals under minimum bending radius in maximum bending degrees.

- Note :
1. For QF-600, UL & ULC Listed
 2. For QF-1000, FM Approved, UL & ULC Listed

FLEXIBLE SPRINKLER CONNECTOR

INSTALLATION INSTRUCTIONS

ASSEMBLY INSTRUCTIONS



A. Connect Inlet Nipple

Use pipe wrench to screw the Inlet Nipple into the branch outlet interface on water supply pipeline, use pipe sealant (Teflon tape or pipe glue etc.) to seal and apply tightening torque of approx. 50N·m/35ft·lbs. Then tighten the Hexagon Slip Nut with 15N·m/10ft·lbs to ensure sealing performance.

B. Fix bracket set

Attach side brackets to the main-rail of the T-bar grid and cross the square bar through 2 side brackets, with the center bracket in the middle. Tighten all fixing bolt on the side brackets with 4N·m/3ft·lbs.

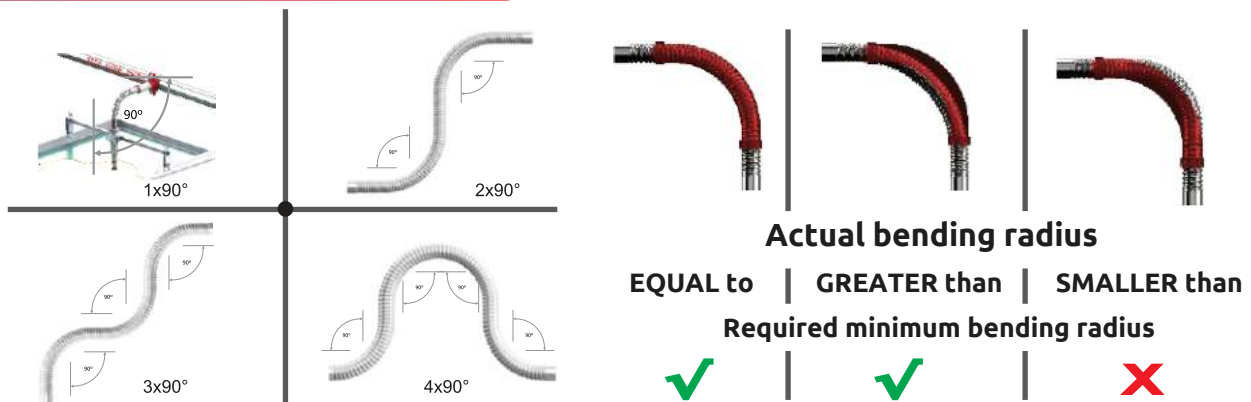
C. Bending & Locating

Bend the Flexible Hose body as desired (According the parameters on Specification sheet) and locate the Discharge Nipple into the center bracket. Tighten the bolts on center bracket with 4N·m/3ft·lbs after the proper location of sprinkler head has been found.

D. Connect Discharge Nipple

Tighten the Slip Nuts with 15N·m/10ft·lbs and install sprinkler head to Discharge Nipple by following the sprinkler manufacture's installation instructions. Finally test leak in according with NFPA guidelines.

HOSE BENDING, CORRECT OR WRONG?



Actual bending radius

EQUAL to | GREATER than | SMALLER than
Required minimum bending radius



Use Fivalco® bend snap-gauge for bending gradius inspection

CALCULATION OF BENDING DEGREES

Hose Length	Carton box							Pallet						
	Size			Qty	Gross weight		Size			Quantity		Gross weight		
mm	L	W	H		ea	QF-600	QF-1000	L	W	H	Box	Hose	QF-600	QF-1000
	mm	mm	mm		kg	kg	mm	mm	mm	ea	ea	kg	kg	
700	1050	205	195	20	27.2	31.5	1050	1050	1125	25	500	700	805	
1000	1300	205	195	20	28.9	35.3	1300	1050	1125	25	500	745	905	
1200	1500	205	195	20	30.2	37.7	1500	1050	1125	25	500	780	970	
1500	1800	205	195	20	32	42	1800	1050	1125	25	500	830	1080	
1800	2100	205	195	20	34	45.6	2100	1050	1125	25	500	885	1175	



Fivalco grooved butterfly valve should be connected to the piping system with approved coupling or flange adapters. Flow may be from either direction, and the valve may be positioned in any direction.

Design Requirements

Fivalco butterfly valves have been designed with a slow close handwheel operator which effectively minimizes water hammer. These valves feature minimum flow restriction and pressure loss when in the fully open position.

When the valves are received from the manufacture they should be handled carefully to avoid breakage and damage to the seating area. Before installation of the valve, clean piping, flange and coupling. When the valve closes hard, it is usually due to debris lodged in the sealing area. Often this may be corrected by backing off the hand wheel and closing again.

Installation

The valve should never be forced to seat by applying a wrench to the hand wheel as this may distort the valve components or score the sealing surface. The use of excessive force to open or close the valve violates all warranties express or implied.

The inlet and outlet pipe adjacent to the valve should be properly supported to prevent excessive stress on the valve body. The valve should not be used to force a pipeline into position as this may result in distortion of the valve body.

Conduit and electrical connections to the optional tamper switch must be in accordance with National Electrical Code(NFPA 72) and /or requirements of the local authority having jurisdiction.

Care&Maintenance

Fivalco butterfly valves require no regular maintenance, however, it is advisable to inspect and verify proper operation of the unit annually or in accordance with the authority having jurisdiction. The inspection should include a visual check for leakage at the valve pipe connection and body to operator connection.

Inspection and maintenance should be performed by a qualified inspection service.



fivalco®

NOTES

A series of horizontal dashed lines for writing notes.



FV-FPP-EN-20220831
Fivalco® is Registered Trademark

Fivalco Limited | info@fivalco.com | www.fivalco.com

Fivalco reserves the right to alter the information in this document without prior notice. Fivalco shall not be liable for technical errors or omissions contained herein.
Refer to local sales representatives for detail catalogues, technical data and specifications.