

archer

a member of REDA Hazard Control

FIRE PROTECTION SYSTEM

Archer offers the complete range of fire protection equipment for fixed systems. This includes automatic sprinkler systems for protecting commercial or residential buildings, and special hazard solutions such as deluge, foam or preaction systems for protecting industrial, offshore and petrochemical risks.



Design. Install. Maintain.

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Catalogue Disclaimer:

All images used are for illustrative purposes. These and the specifications given are typical and actual specifications may differ at time of order. Please check with your Sales Adviser in respect of actual specifications.

Fire Mains

Name

Fire Pumps



Application

Fire pumps deliver water to the sprinkler, deluge and/ or hydrant systems in and outside the building. Typical installations consist of a duty and standby pump in a 100% redundancy configuration. Archer provides tailored fire pump solutions to meet the customer's standards and specifications.

General Specification

Fully assembled with driver on skid

- Available in either NFPA 20 or AS2941 compliant models.
- Available in a wide variety of materials and flow ranges to suit the application.

Part No. FP001-DRxx-CNxx-ROxx-CFxx-MDxx-SAxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Driver:

- (DR01) Electric motor
- (DR02) Diesel engine

Configuration:

- (CF01) End Suction
- (CF02) Split Case Horizontal
- (CF03) Vertical Turbine

Standards and Approvals:

- (SA01) NFPA 20 Compliant ULFM
- (SA02) AS2941 Compliant SETSCO

Controller:

- (CN01) With
- (CN02) Without

Medium:

- (MD01) Potable Water
- (MD02) Sea-Water

Rated Flow:

Customer to Specify

Rotation:

- (RO01) Right
- (RO02) Left

Rated Pressure:

Customer to Specify

Name

Jockey Pumps



Application

Jockey pumps or pressure maintenance pumps are small vertical multi-stage pumps that maintain system pressure. The pumps deliver enough water to recover lost pressure due to nominal pipe leakage, but not enough to recover water lost from a flowing sprinkler. This way, the fire pumps will still activate when a sprinkler bursts.

General Specification

- Motor driven and comes fully assembled
- Design: vertical, multistage, centrifugal in-line
- Available in a variety of materials and flow ranges to suit the application

Part No. FP002-CNxx-MDxx-SAxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Controller:

- (CN01) With
- (CN02) Without

Standards and Approvals:

- (SA01) NFPA 20 Compliant ULFM
- (SA02) AS2941 Compliant SETSCO

Rated Pressure:

Customer to Specify

Medium:

- (MD01) Potable Water
- (MD02) Sea-Water

Rated Flow:

Customer to Specify

Fire Mains

Name

OS&Y Gate Valve



Application

Outside Screw and Yoke (OS&Y) gate valves are commonly used in fire protection systems because the rising stem provides an easy means of identifying valve open/ close state.

General Specification

UL/ FM (including UL-Canada) at 300 psi. These UL/ FM Resilient Seated Gate Valves (2"-12") are manufactured to American Waterworks Standard AWWA C515-15. Stainless Steel Stem and Bolting is standard. Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard. NSF-61 Certified for use in Drinking Water Systems. NSF-372 Certified as Lead-Free.

Part No. FP003-SZxx-TYxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Size:

(SZ01) 2.5"
(SZ02) 3"
(SZ03) 4"
(SZ04) 5"

(SZ05) 6"
(SZ06) 8"
(SZ07) 10"
(SZ08) 12"

Type:

(TY01) Flange x flange - Specify Type
(TY02) Mechanical joint x mechanical joint

Name

Large Diameter OS&Y Gate Valve



General Specification

UL/ FM Large Diameter OS&Y Resilient Seated Gate Valves. All sizes through 24" are UL Listed and FM Approved at the highest rated pressure in the industry. Working pressure 250PSI for 14"- 18", 200PSI for 20" and 24" sizes. Manufactured to AWWA C515-15 Standard. Stainless Steel Stem and Bolting is standard. Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard. NSF-61 Certified for use in Drinking Water Systems. NSF-372 Certified as Lead-Free

Part No. FP004-SZxx-FLxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Size:

(SZ01) 14"
(SZ02) 16"
(SZ03) 18"
(SZ04) 20"
(SZ05) 24"

Flange:

(FL01) ANSI B16.1 Class 125
(FL02) Other type available upon request - customer to specify

Name

NRS Gate Valve



Application

Non-rising stem (NRS) Gate valves are mainly used for underground installations where it is not practical to have a rising stem. The valves are often supplied without a handwheel, and fitted with a nut, so that operators can use a wrench to open/ close the valve from above-ground.

General Specification

UL/ FM/ AWWA resilient seated gate valves (non-rising stem) are manufactured in accordance with AWWA C515-15 Standard and are NSF-372 Certified Lead Free. The UL/ FM/ AWWA NRS Flange x Flange Valve's body, bonnet, and wedge are of high strength ductile-iron. The wedge is encapsulated with EPDM rubber. Stainless steel stem and bolting are standard. Flanges to ANSI B16.1, Class 125. Valves are fusion bonded epoxy coated interior and exterior to AWWA C550 Standard. UL/ FM @ 300 psi. Available with Hand Wheel or Operating Nut.

Part No. FP005-SZxx-OPxx-TYxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Size:

(SZ01) 3"
(SZ02) 4"
(SZ03) 6"
(SZ04) 8"
(SZ05) 10"
(SZ06) 12"

Operation:

OP 01 With handwheel
OP 02 Without handwheel (Operating Nut Only)

Type:

(TY01) Flange x flange - Specify Type
(TY02) Mechanical joint x mechanical joint

Fire Mains

Name

Vertical Indicator Post



Application

Vertical Indicator Posts Indicate if the valve is in the open or shut position and are used to operate a valve installed underground.

General Specification

The Vertical Indicator Posts are UL Listed/ FM Approved. The Heavy Duty Post includes a wrench handle that fits over a "U" bracket that can be padlocked. The upper barrel is tapped and plugged for installation of monitoring switch. The post may be adjusted up to 34.5" to accommodate deeper valves. Standard coating is Epoxy Coated Safety Red. Meets the requirements of NFPA 24 Standard.

Part No. FP006-ONxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Operation:

- (ON01) Open left
- (ON02) Open right

Name

Wall Indicator Post



Application

Wall Indicator Posts indicates if the valve is in the open or shut position and are used to operate a valve installed behind a wall.

General Specification

UL/ FM Wall Indicator Posts are UL Listed/ FM Approved. Heavy Duty Post used to operate a post indicator valve installed behind a wall. 12 inch Outside Diameter Post Flange mounts directly to building wall. Handwheel included. Epoxy Coated Safety Red. Meets the requirements of NFPA 24 Standard.

Part No. FP007-ONxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Operation:

- (ON01) Open left
- (ON02) Open right

Name

Large Diameter NRS Gate Valve



Application

Large diameter Non-Rising Stem gate valves are usually used as isolation valves for hydrant ring mains. These valves are available with handwheel or operating nut.

General Specification

Large Diameter Resilient Seated Gate Valves – Flange x Flange. 14"-16"-18" Sizes are UL/ FM at 250 psi rating. 20" and 24" are UL/ FM at 200 psi rating. Manufactured to AWWA C515-15 Standard. Flanges are to ASME B16.1, Class 125, ASME B16.42, Class 150 Standard. Stainless Steel Stem is standard. Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard. NSF-61 Certified for use in Drinking Water Systems. NSF-372 Certified as Lead-Free.

Part No. FP008-SZxx-TYxx-ONxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Size:

- (SZ01) 14"
- (SZ02) 16"
- (SZ03) 18"
- (SZ04) 20"
- (SZ05) 24"

Type:

- (TY01) Flange x flange
- (TY02) Mechanical joint x mechanical joint

Operation:

- (ON01) Handwheel
- (ON02) Operating nut

Fire Mains

Name

Butterfly Valve



Application

A Butterfly Valve is a quarter-turn valve used to regulate flow. A metal disc in the body of the valve is positioned perpendicular to the flow in the closed position, and rotated one quarter of a turn to be parallel to the flow in the fully opened position. Butterfly valves are compact valves that are ideal for installation inside valve cabinets or rooms where there is limited space.

General Specification

UL/ FM at 300 psi. Vulcanized Disc design provides bubble tight shut-off every time. Low torque operation – high cycle life. Gear Operated. Includes built-in Supervisory (Tamper) Switch. UL/ FM Butterfly Valve – Grooved Ends to AWWA C606 Standard. Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard.

Part No. FP010xx-TYxx-VSxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Type:

(TY01) Grooved ends
(TY02) Wafer style

Valves size:

(VS01) 2"
(VS02) 2.5"
(VS03) 3"
(VS04) 4"
(VS05) 5"
(VS06) 6"
(VS07) 8"
(VS08) 10"
(VS09) 12"

Name

Swing Check Valve



Application

Swing Check Valves are commonly used on the discharge end of pumps to prevent backflow. They are also used in double redundant configuration at the interface with town water supply to prevent backflow into the potable water system.

General Specification

UL/ FM at 300 psi, the highest rated pressure in the industry. UL/ FM Swing Check Valves – are manufactured to AWWA C508 Standard, offering a Clear Waterway. Resilient Seating with EPDM rubber to bronze seat ring seal. Flanged Ends to ANSI B16.1, Class 125. Two test plugs included. Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard.

Part No. FP011-ETxx-VSxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

End type:

(ET01) Flanged
- Specify ISO
or ANSI Standard
(ET02) Grooved -
Specify AWWA or
Metric Standard

Valves size:

(VS01) 2"
(VS02) 2.5"
(VS03) 3"
(VS04) 4"
(VS05) 5"
(VS06) 6"
(VS07) 8"
(VS08) 10"
(VS09) 12"

Fire Mains

Name

Wye Strainer



Application

Wye Strainers are a cost-effective solution for the mechanical removal of unwanted solids from the water supply, by means of a perforated or wire mesh straining element. They are used in pipelines to protect pumps, meters, control valves, steam traps, regulators and other process equipment.

General Specification

NPT or BSPT blowoff outlet on cover.
 Blowoff outlets are finished with plugs.
 Screens are perforated 304 stainless steel with spot welded seam.
 Recessed seat in body assures accurate screen alignment.
 Flanges to ANSI 816. 1 Class125 (Other types available upon request).
 UL Listed versions are available. Corrosion protection: Internally and Externally Spray Painted or Fusion Bonded epoxy powder Coated (FBE).

Part No. FP012-FLxx-SZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Flange:

(FL01) ANSI B16.1 Class 125
 (FL02) Other type available upon request

Size:

(SZ01) 2.5"
 (SZ02) 3"
 (SZ03) 4"
 (SZ04) 5"
 (SZ05) 6"
 (SZ06) 8"
 (SZ07) 10"
 (SZ08) 12"

Name

Pressure Relief Valve



Application

The Pressure Relief Valve (PRV) is used to control or limit the pressure in a system to prevent equipment failure. The pressure is relieved by allowing the pressurised fluid to flow from an auxiliary passage out of the system. Pressure Relief Valves are typically installed on the discharge side of a diesel engine driven fire pump to protect the system piping in event of pump overrun.

General Specification

Installation in any orientation. One-piece, one-moving-part diaphragm.
 Ceramic enamel-coated interior. Standard Epoxy-coated exterior.
 Accurate pressure control. In-line service.
 No need to bleed trapped air from the diaphragm chamber.
 One pilot valve sub-assembly that provides for any outlet "set pressure" from 30 to 250 psi (2,1 to 17,2 bar).
 Body: Standard Epoxy-coated exterior, ductile iron per ASTM A536-77, Grade 65-45-12
 Diaphragm Cover: Standard Epoxy-coated exterior, ductile iron per ASTM A536-77, Grade 65-45-12
 Diaphragm: Nylon fabric-reinforced, natural rubber per ASTM D2000
 Diaphragm Cover Fasteners: Galvanized carbon steel
 Pilot Valve: Cast bronze and stainless steel with nylon fabric reinforced, natural rubber per ASTM D2000 diaphragm
 Pressure Gauges: 2-1/2 inch (65 mm) diameter, stainless steel case, 0 to 350 psi (25 bar)
 Strainer, Tube, Fittings, and Needle Valve: Stainless steel

Part No. FP013-BSxx-EDxx-NVxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Body style:

(BS01) Globe
 (BS02) Angle

End connection:

(ED01) Flange x Flange - Specify standard
 (ED02) Thread x Thread - Specify standard

Nominal valve size:

(NV01) 2"
 (NV02) 3"
 (NV03) 4"
 (NV04) 6"
 (NV05) 8"

Fire Mains

Name

Pressure Regulating Valve



Application

A Pressure Regulator reduces the input pressure of a fluid to a desired value. Typically installed in high rises or large sites where there is a need to regulate pressure at points subject to pressure gain due to elevation.

General Specification

Maximum Inlet Pressure: 250 psi (17,2 bar)
 Factory Outlet "Set Pressure": 125 psi (8,6 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
 Standard Materials:
 Body: Options available
 Diaphragm Cover: RILSAN polyamide 11 coated, ductile iron per ASTM A 536-77, Grade 65-45-12.
 Diaphragm: Nylon fabric-reinforced, natural rubber per ASTM D2000.
 Diaphragm Cover Fasteners are galvanized carbon steel.
 Pilot Valve: Brass and stainless steel with nylon fabric-reinforced, natural rubber per ASTM D2000 diaphragm.
 Strainer: Brass and stainless steel.
 Pressure Gauges: 2-1/2 inch (65 mm) diameter, stainless steel case, and 0 to 350 psi (25 bar) pressure rating.

Part No. FP014-BSxx-EDxx-NVxx-MVxx-TRxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Body style:

- (BS01) Globe
- (BS02) Angle

End connection:

- (ED01) Flange x flange - Specify standard
- (ED02) Thread x thread - Specify standard
- (ED03) Grooved x Grooved - Specify standard

Nominal valve size:

- (NV01) 2"
- (NV02) 3"
- (NV03) 4"
- (NV04) 6"
- (NV05) 8"

Main Valve Material:

- (MV01) Ductile Iron
- (MV02) Cast Steel
- (MV03) Nickel Al Bronze

Trim:

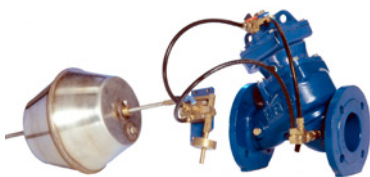
- (TR01) Stainless Steel 316 trim with Brass Accessories
- (TR02) Stainless Steel 316 trim and accessories

Outlet Pressure:

Customer to specify

Name

Ball Float Valve



Application

Ball Float Valves are designed to be fitted in the top of a tank or reservoir to automatically control the rate of filling and shut off completely when a predetermined level is reached.

General Specification

Body: Standard Epoxy-coated exterior, ductile iron per ASTM A536-77, Grade 65-45-12 . Diaphragm Cover: Standard Epoxy-coated exterior, ductile iron per ASTM A536- 77, Grade 65-45-12
 Self-cleaning screen filter
 Brass Pilot
 Brass Float arm
 Stainless Steel float
 Reinforced plastic tubing

Part No. FP015-BSxx-EDxx-NVxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Body style:

- (BS01) Globe
- (BS02) Angle

End connection:

- (ED01) Flange x flange
- Specify standard
- (ED02) Thread x thread
- Specify standard
- (ED03) Grooved x Grooved -
Specify standard

Nominal valve size:

- (NV01) 2"
- (NV02) 3"
- (NV03) 4"
- (NV04) 6"
- (NV05) 8"

Fire Mains

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Altitude Control Valve



Application

Altitude Control valves are used to maintain a preset water level in a reservoir or a water tank in a simple, economic manner. This valve is activated by the line pressure.

General Specification

Body: Standard Epoxy-coated exterior, ductile iron per ASTM A536-77, Grade 65-45-12
Diaphragm Cover: Standard Epoxy-coated exterior, ductile iron per ASTM A536-77, Grade 65-45-12
Self-cleaning screen filter
2 Way Altitude metal pilot ALT2
Spring set for reservoir maximum level 15m.
Reinforced plastic tubing

Part No. FP016-WAxx-ALxx-BSxx-EDxx-NVxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Way:

(WA01) 2 way altitude control hydraulic valve
(WA02) 3 way altitude hydraulic valve

Altitude ranges:

(AL01) 8m
(AL02) 15m
(AL03) 25m
(AL04) 30m
(AL05) 40m

Body style:

(BS01) Globe
(BS02) Angle

End connection:

(ED01) Flange x flange
(ED02) Thread x thread
(ED03) Grooved x Grooved

Nominal valve size:

(NV01) 2"
(NV02) 3"
(NV03) 4"
(NV04) 6"
(NV05) 8"

Sprinklers and Preaction

Name

Pre-action Valve



Application

Pre-Action Valves are used pre-action systems where it is necessary to keep the pipes dry to prevent false discharges that can cause water-damage of sensitive equipment or materials. Preaction systems are typically used in laboratories, museums, libraries and datacentres.

General Specification

Body and Bonnet: Ductile Iron standard - others available on request
 Diaphragm: Natural Rubber
 Spring: SST 302
 Nuts And Bolts: Coated Steel
 Coating: Polyester
 Flanges: ISO 2084, 2441, 5752
 Threads: F-BSP
 Control Bores 1/8", 1/4", 1/2" NPT

Part No. FP017-CXxx-FTxx-MAxx-MXxx-SZxx-DPxx-SRxx-WBxx-CGxx-BNxx-ATxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Connection:

(CX01) Threaded - Specify standard
 (CX02) Grooved
 (CX03) Flanged - Specify standard

(SZ04) 2"
 (SZ05) 2½"
 (SZ07) 3"
 (SZ08) 4"
 (SZ09) 6"
 (SZ11) 8"
 (SZ12) 10"
 (SZ13) 12"

Coating:

(CG01) Polyester
 (CG02) Epoxy

Flow type:

(FT01) Straight
 (FT02) Angle

Bonnets:

(BN01) Standard
 (BN02) Throttling bonnet
 (BN03) Position indicating bonnet

Material:

(MA01) Cast iron
 (MA02) NAB
 (MA03) Ductile iron

Diaphragm:

(DP01) Natural rubber
 (DP02) NBR, EPDM and Neoprene
 are 3 different options

Actuation:

(AT01) Single Interlock Wet Pilot
 (AT02) Single Interlock Dry Pilot
 (AT03) Single Interlock Electric
 (AT04) Double Interlock Electric-Pneumatic
 (AT05) Double Interlock Electric- Electric

Max. pressure:

(MX01) 16 bar or 230 psi
 (MX02) 25 bar or 360 psi

Spring:

(SR01) SST 302
 (SR02) SST 316

Nuts and bolts:

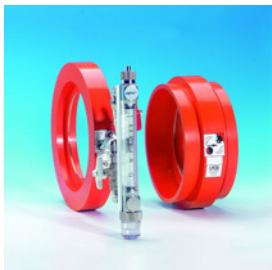
(NB01) Coated steel
 (NB02) SST 316

Available sizes:

(SZ01) ¾"
 (SZ02) 1"
 (SZ03) 1½"

Name

Sprinkler Flow Meter



Application

Sprinkler Flow Meters are typically installed at control valve blocks, for water proving tests.

General Specification

Connections: Groove or Wafer between Flanges
 Accuracy: ± 5% of flow
 Safe Working Pressure: 16 bar g

Part No. FP018-CXxx-PLxx-IDxx-SZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Connection style:

(CX01) Flange - Specify standard
 (CX02) Groove - Specify standard

Indicator positioning:

(ID01) Direct
 (ID02) Remote

Size:

(SZ01) 2"
 (SZ02) 3"
 (SZ03) 4"
 (SZ04) 6"
 (SZ06) 8"

Orientation:

(PL01) Horizontal
 (PL02) Vertical

Sprinklers and Preaction

Name

Sprinkler Alarm Check Valve



Application

Sprinkler Alarm valves are double seated clapper check valves with grooved seat design, which ensures positive water flow for alarm operation and is designed for installation in wet pipe sprinkler system.

General Specification

Material: Ductile Iron - Standard
 Normal Size: 200, 150, 100, 80, 50 NB
 Service Pressure: 1.4 to 17.5 Bar (20 to 250 PSI)
 Threaded Opening: BSPT
 Mounting: Vertical or Horizontal
 Factory Hydrostatic Test Pressure: 35 Kg/sq.cm. (500 PSI)
 Flange Connection: ANSI B 16.5 # 150 RF (FF-Optional)
 Approval: UL Listed
 Optional Retard Chambers for installations prone to pressure surges

Part No. FP019-EDxx-SZxx-RCxx-WFxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

End connection:

- (ED01) Flange x flange
- Specify standard
- (ED02) Flange x groove
- Specify standard
- (ED03) Groove x groove
- Specify standard

Size:

- (SZ01) 3"
- (SZ02) 4"
- (SZ03) 6"
- (SZ04) 8"

Retard Chamber:

- (RC01) Yes
- (RC02) No

Waterflow Pressure Switch:

- (WF01) Yes
- (WF02) No

Name

Sprinkler Water Alarm Gong



Application

Water motor alarm gongs are installed at control valves to provide continuous alarm when the valve operates.

General Specification

Water Working Pressure : 17.5 Bar (250 PSI)
 Connection : Inlet: 3/4" BSPT (3/4" NPT),
 Drain: 1" BSPT (1" NPT)
 Gong Diameter : 205mm (8")
 Gong Depth : 50mm (2")
 Finish : Red RAL 3000
 Weight (Approx): 3.0 Kg

Part No. FP020-MTxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Mounting type:

- (MT01) Pre-Assembly
- (MT02) Wall mounting suitable for
50 to 250 mm thick wall with
325 mm long drive shaft as
standard supply

Sprinklers and Preaction

Name

Commercial Basic Sprinklers



Application

Sprinklers are for use in automatic sprinkler systems for light, ordinary and extra hazard occupancy classifications. Sprinklers can be used in dry or wet systems.

General Specification

Sprinklers are available in various configurations, response modes, finishes and temperature ratings to meet the occupancy class and aesthetic requirements.

Thread Size: 1/2"

Nominal K-Factor: Standard 5.6 (U.S.)/ 80 (metric)

Max. Working Pressure: 175 psig/ 1.2 MPa (12 bar)

Factory Hydrostatic Test: 100% @ 500psig (3.4 MPa)

Min. Operating Pressure: 7 psig/ 0.048 MPa (0.48 bar)

Sprinkler Finish: Natural Brass or Chrome Plated

Listings and Approvals: UL/ FM Approved

Part No. FP021-STxx-RSxx-TDxx-FNxx-NSxx-KFxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Style:

(ST01) Upright
(ST02) Pendent
(ST03) Recessed pendent
(ST04) Sidewall

Thread type:

(TD01) BSPT
(TD02) NPT

Normal sprinkler temperature rating:

(NS01) 57°C
(NS02) 68°C
(NS03) 79°C
(NS04) 93°C

Response:

(RS01) Standard
(RS02) Quick

Finish:

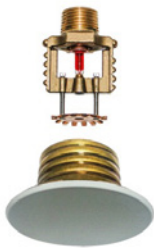
(FN01) Brass
(FN02) Chrome plated
(FN03) White painted

K-factor - Imperial:

(KF01) 5.6K
(KF02) 2.8K
(KF03) 8.0K

Name

Commercial Decorative Sprinklers



Application

Pendent Concealed Sprinklers are a type of sprinkler that sits flush against the ceiling with decorative flat cover plate designed to conceal the sprinkler for aesthetic reasons. The cover plates are available in several decorative finishes to match architectural requirements.

General Specification

Thread Size: 1/2"

Nominal K-Factor: 5.6 (U.S.)/ 80 (metric)

Max. Working Pressure: 175 psig/ 1.2 MPa (12 bar)

Factory Hydrostatic Test: 100% @ 500psig (3.4 MPa)

Min. Operating Pressure: 7 psig/ 0.048 MPa (0.48 bar)

Sprinkler Finish: Natural Brass or Chrome Plated

Cover Plate Finish: Painted White or Chrome Plated or

Colour Coated In Any Colour

Listings and Approvals: UL/ FM Approved

Part No. FP022-RSxx-TDxx-FNxx-NSxx-KFxx-CVxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Response:

(RS01) Standard
(RS02) Quick

Normal sprinkler temperature rating:

(NS01) 57°C
(NS02) 68°C
(NS03) 79°C
(NS04) 93°C

Cover plate finish:

(CV01) White
(CV02) Chrome plated
(CV03) Others - customer to specify

Thread type:

(TD01) BSPT
(TD02) NPT

K-factor - Imperial:

(KF01) 5.6K
(KF02) 2.8K
(KF03) 8.0K

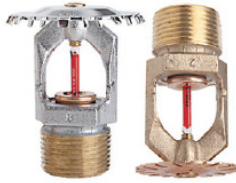
Finish:

(FN01) Brass
(FN02) Chrome plated
(FN03) White painted

Sprinklers and Preaction

Name

Commercial Extended Coverage Sprinklers



Application

Extended Coverage Upright and Pendent Sprinklers are decorative glass-bulb sprinklers designed for use in light or ordinary hazard occupancies, where it is preferable to have fewer sprinklers in the room.

General Specification

Maximum Working Pressure: 175 psi (12,1 bar)
 Pipe Thread Connection: 3/4 inch NPT
 Discharge Coefficients: K = 11.2 (Metric: 161,3),
 K = 14.0 (201,6)

Part No. FP023-RSxx-TYxx-KFxx-NSxx-SFxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Response:

(RS01) Standard
 (RS02) Quick

K factor:

(KF01) 11.2
 (KF02) 14.0

Sprinkler finish:

(SF01) Natural brass
 (SF02) Chrome plated
 (SF03) Signal white RAL9003 polyester
 (SF04) Jet black RAL9005 polyester
 (SF05) Lead coated

Type:

(TY01) Upright
 (TY02) Recessed pendent
 (TY03) Recessed pendent with escutcheon

Normal sprinkler temperature rating:

(NS01) 57°C
 (NS02) 68°C
 (NS03) 79°C
 (NS04) 93°C
 (NS05) 141°C

Name

Flexible Sprinkler Drops



Application

Sprinkler Flexible Drop assemblies are a ready to use flexible system to fit sprinkler heads in adjustable locations in a suspended ceiling.

General Specification

Max.Service Pressure: 175 PSI (12 Bar)
 Approvals: UL Listed

Part No. FP024-STxx-SUxx-SBxx-NOxx-MBxx-MRxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Style:

(ST01) Unbraided
 (ST02) Braided

[Size (braided), mm:

(SB01) 610
 (SB02) 790
 (SB03) 915
 (SB04) 1220
 (SB05) 1525
 (SB06) 1800

Maximum bends:

(MB01) 1
 (MB02) 2
 (MB03) 3

Size (unbraided), mm:

(SU01) 700
 (SU02) 1000
 (SU03) 1200
 (SU04) 1500
 (SU05) 1800

Nominal outlet size, in:

(NO01) 1 x 1/2
 (NO02) 1 x 3/4

Maximum bending radius, mm:

(MR01) 100
 (MR02) 190

Sprinklers and Preaction

Name

ESFR Sprinklers



Application

Early Suppression, Fast Response (ESFR) sprinklers are suppression-mode sprinklers that eliminates the use of in-rack sprinklers when protecting high-piled storage.

General Specification

Maximum Working Pressure: 175 psi (12,1 bar)
Pipe Thread Connections: 1 Inch
Discharge Coefficient: Standard $K=25.2 \text{ gpm}/\text{psi}^{1/2}$
(362,9 lpm/bar^{1/2})
Temperature Ratings: 165°F (74°C) and 212°F (100°C)
Finish: Natural Brass.
Maximum Storage Height: FM listing
- 12.2 m/ UL listing - 13.1 m
Maximum Ceiling Height: FM listing
- 13.7 m/ UL Listing - 14.6 m

Part No. FP025-TCxx-TYxx-TDxx-KFxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Temperature:

(TC01) 74°C
(TC02) 100°C

Thread Type:

(TD01) NPT 1"
(TD02) Sprinkler assemblies with ISO
7-1 thread connection

K-Factors (imperial):

(KF01) $K=16.8$
(KF02) $K=14.0$

Type:

(TY01) Upright
(TY02) Pendent

Name

Control Mode Sprinklers



Application

These sprinklers were originally developed to provide control for high-hazard type occupancies, such as storage. Sprinkler system designed for this sprinkler type is specified in terms of the number of sprinklers expected to operate during a fire at a given minimum required pressure.

General Specification

Maximum Working Pressure: 175 psi (12,1 bar)
Pipe Thread Connection: 1 Inch NPT or ISO 7-R1
Discharge Coefficient: $K=25.2 \text{ gpm}/\text{psi}^{1/2}$ (362,9 lpm/bar^{1/2})
Temperature Ratings: 165°F (74°C) and 212°F (100°C)
Maximum Coverage Area: 196 ft.² (18,2 m²)
Finish: Natural Brass

Part No. FP026-TCxx-TDxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Temperature:

(TC01) 74°C
(TC02) 100°C

Thread Type:

(TD01) NPT 1"
(TD02) Sprinkler assemblies with ISO
7-R 1 thread connection

Sprinklers and Preaction

Name

Dry Type Pendent Sprinklers



Application

Dry type sprinklers are usually installed where they are exposed to sub-zero temperatures, which can cause water inside the pipe to freeze. The sprinkler consists of an extended dry barrel that can be installed into the cold room from a wet system. Typical applications are cold stores, outdoor sprinklers.

General Specification

Maximum Working Pressure: 175 psi (12,1 bar)
 Inlet Thread Connections: 1 inch NPT ISO 7-R 1
 Discharge Coefficient: $K=5.6 \text{ gpm/psi}^{1/2}$
 (80,6 lpm/bar^{1/2})
 Temperature Ratings: Refer to Tables A and B.
 Finishes: Sprinkler: Refer to Table D, Escutcheon:
 Refer to Table D.

Part No. FP027-TYxx-OLxx-ICxx-TMxx-ESxx-SFxx-EFxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Type:

(TY01) Pendent
 (TY02) Upright
 (TY03) Horizontal sidewall

Inlet connections:

(IC01) 1" NPT
 (IC02) ISO 7-R 1

Escutcheon Type:

(ES01) Standard
 (ES02) Deep Escutcheon

Order length:

(OL01) 5.50"
 (OL02) 8.25"
 (OL03) 18.00"
 (OL04) 18.75"
 (OL05) 37.25"
 (OL06) 48.00"

Temperature rating:

(TM01) 57°C
 (TM02) 68°C
 (TM03) 79°C
 (TM04) 93°C
 (TM05) 141°C
 (TM06) 182°C

Sprinkler finish:

(SF01) Chrome plated
 (SF02) Natural brass
 (SF03) Signal white

Escutcheon finish:

(EF01) Signal White
 (EF02) Brass plated
 (EF03) Chrome plated

Name

Dry Type ESFR Sprinklers



Application

Dry Type ESFR 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

General Specification

Maximum Working Pressure: 175 psi (12,1 bar)
 Pipe Thread Connections: 3/4 Inch NPT or ISO 7-R 3/4
 Discharge Coefficient: $K=16.8 \text{ gpm/psi}^{1/2}$ (241,9 lpm/bar^{1/2})
 Temperature Ratings: 165°F (74°C) and 212°F (100°C)
 Finish: Natural Brass
 System Type: Wet Pipe
 Roof Construction: Unobstructed or obstructed construction (e.g., smooth ceiling, bar joists, beam and girder, etc.). Where the depths of the solid structural members (e.g., beams and stem) exceed 12 in. (302 mm), install ESFR Sprinklers in each channel formed by the structural members.
 Ceiling Slope: Maximum 2 inch rise for 12 inch run (16.7%)
 Maximum Coverage Area: 100 ft.² (9,3 m²)
 In some cases, the installation standards permit a greater coverage area.
 Minimum Coverage Area: 64 ft.² (5,8 m²) per NFPA 13
 Maximum Spacing: 12 feet (3,7 m) for building heights up to 30 feet (9,1 m)
 10 feet (3,1 m) for building heights greater than 30 feet (9,1 m)
 Minimum Spacing: 8 feet (2,4 m)
 Minimum Clearance to Commodity: 36 inches (914 mm)
 NFPA 13 Deflector-to-Ceiling Distance: 6 to 14 inches (152 to 356 mm)
 FM Global 2-0: Consult FM Global and/or FM Global guidelines for allowable deflector-to-ceiling distances as well as thermal sensing element-to-ceiling criteria.

Part No. FP028-TMxx-SOxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Temperature ratings:

(TM01) 74°C
 (TM02) 100°C

Special order:

(SO01) None
 (SO02) Sprinkler assemblies with ISO 7-R 3/4 thread connection
 (SO03) W-type 35 sprinkler wrench

Sprinklers and Preaction

Name

Sprinkler Flow Switch



Application

Used to detect a flow of water through a sprinkler system. Transmits an electrical impulse to activate audible or visual alarms. Retard feature minimizes false alarms.

General Specification

Flow sensitivity range: 4-10 GPM(15-38LPM).
 Contact rating: 8A@250VAC, 3A@24VDC, 2.5A@ 30VDC.
 Working Pressure: 450PSI.
 Working Temperature: 0°C to 68°C.
 Corrosion Protection: Fusion Bonded Epoxy Coated Interior and Exterior or Enamel Spray Paint, Interior and Exterior.
 UL Listed.
 FM Approved.
 GOST Certification.
 Saddle: DI, A536 65-45-12
 Holder: SS304+EPDM
 Plate: Aluminium Alloy
 Cover: Aluminium Alloy
 Paddle: Plastic
 Microswitch: Plastic
 Gasket: EPDM
 Retarding device: Plastic
 Terminal Box: Plastic

Part No. FP029-SZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Size:

(SZ01) 2"
 (SZ02) 2 1/2"
 (SZ03) 3"
 (SZ04) 4"
 (SZ05) 5"
 (SZ06) 6"
 (SZ07) 8"

Name

Waterflow Pressure Switch



Application

A Pressure Switch is a form of switch that closes an electrical contact when a certain set fluid pressure has been reached on its input. These are used in wet, dry, deluge, and pre-action automatic sprinkler systems. They are designed for both indoor and outdoor use, with a temperature range of -40° C. to 60° C.

General Specification

Various pressure ranges available to meet project requirements
 Contact rating: 10A@125/250VAC, 2.5A@30VDC
 Switch Configuration: SPDT
 Electrical Conduit Connection: Standard 1/2" knockout
 Water Connection: Standard 1/2" NPT
 Approval: UL/ FM

Part No. FP030-MXxx-MAxx-ONxx-HZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Maximum adjustable pressure range:

(MX01) 4-20 psi
 (MX02) 10-100 psi
 (MX03) 10-200 psi

Material:

(MA01) Die Cast Housing
 (MA02) SS316
 (MA03) Super Duplex

Operate on:

(ON01) Rise
 (ON02) Drop

Hazardous Zone Rating:

(HZ01) None
 (HZ02) Yes - Customer to Specify

Sprinklers and Preaction

Name

OS&Y Valve Supervisory Switch



Application

Supervisory Switches for OS&Y Valves are designed for both indoor and outdoor use and are installed to monitor the open/ close state of OSY valves.

General Specification

Weight: 0.6kg

Enclosure: Cover: Die Cast, Finish: Red Powder Coat, Base: Die Cast, All parts have corrosion resistant finishes.

Cover Tamper: Tamper Resistant Screws Cover Tamper Switch Available
3Amps/5Amps at 125/250VAC

Contact Rating: 10Amps at 125/250 VAC, 2.5 Amps at 30VDC Resistive

Conduit Entrances: One Knockout and One hole for 1/2" conduit provided
UL/ULC Listed, FM Approved.

Part No. FP031-CTxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Contact rating:

(CT01) One set of SPDT

(CT02) Two sets of SPDT

(CT03) Two sets of SPDT and cover
tamper switch

Name

Indicator Post Supervisory Switch



Application

Supervisory Switches for Vertical and Wall Indicator Posts are installed to monitor the open/ close state of Indicator Posts.

General Specification

Weight: 0.45kg

Enclosure: Cover: Die Cast, Finish: Red Powder Coat, Base: Die Cast, All parts have corrosion resistant finishes.

Cover Tamper: Tamper Resistant Screws Cover Tamper Switch Available
3Amps/5Amps at 125/250VAC

Contact Rating: 10Amps at 125/250 VAC, 2.5 Amps at 30VDC Resistive

Conduit Entrances: One Knockout and One hole for 1/2" conduit provided
UL/ULC Listed, FM Approved.

Part No. FP032-CTxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Contact rating:

(CT01) One set of SPDT

(CT02) Two sets of SPDT

(CT03) Two sets of SPDT and cover
tamper switch

(CT04) 10A @ 125/250V AC

(CT05) 2.5A at 30V DC resistive

Deluge

Name

Deluge Valve



Application

Deluge valves are used for control of fixed water spray systems, foam systems and on/off control of fixed monitors. Deluge valves are available in a variety of trims depending on the type of actuation required. Wet and electric trims are the most common, and provide a cost-effective means of controlling the system automatically or remotely. Dry pilot trims keep the pilot line dry and minimise risk of wetting sensitive equipment in event of a false discharge or pipe leak. All trims can be fitted with a pressure regulating pilot valve to modulate the outlet pressure to the design requirement.

General Specification

Available in a variety of trim configurations.
 Maximum Inlet Pressure: 250 psi (17,2 bar)
 Regularly Furnished:
 Body: RILSAN polyamide 11 coated, ductile iron per ASTM A 536-77, Grade 65-45-12
 Diaphragm Cover: RILSAN polyamide 11 coated, ductile iron per ASTM A 536-77, Grade 65-45-12.
 Diaphragm: Nylon fabric-reinforced, natural rubber per ASTM D2000.
 Diaphragm Cover Fasteners are galvanized carbon steel.
 Dry Pilot Valve (Only on Dry Pilot and Electric-Pneumatic Trim): Brass and stainless steel with nylon fabric-reinforced, natural rubber per ASTM D2000 diaphragm.
 Pressure Regulating Pilot (Only on Pressure Regulating Trim): Brass and Nickel Plated. 5:1 Pressure Regulating Ratio - Field Adjustable
 Solenoid Valve: Brass, Nickel Plated, 24 VDC Energise to Open, IP 66 Rated
 Strainer: Brass and stainless steel.
 Pressure Gauges: 2-1/2 inch (65 mm) diameter, stainless steel case, and 0 to 350 psi (25 bar) pressure rating.
 UL Listed

Part No. FP033-TYxx-TRxx-PGxx-SZxx-CDxx-ELxx-CGxx-IVxx-BCxx-TUxx-AXxx-HZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Type:

(TY01) Vertical
 (TY02) Horizontal

Trim Configuration:

(TR01) Dry Pilot
 (TR02) Wet Pilot
 (TR03) Electric Trim
 (TR04) Electric-Pneumatic Trim

Pressure Regulating:

(PG01) None
 (PG02) Yes - Customer to Specify Outlet Pressure

Size:

(SZ01) 1½"
 (SZ02) 2"
 (SZ03) 3"
 (SZ04) 4"
 (SZ05) 6"
 (SZ06) 8"

Connections ends:

(CD01) Flange x flange
 - Specify standard
 (CD02) Groove x groove
 - Specify standard
 (CD03) Flange x groove
 - Specify standard
 (CD04) Groove x flange
 - Specify standard
 (CD05) Thread x thread
 - Specify standard

Ealastomer Material:

(EL01) NBR
 (EL02) EPDM

Coating:

(CG01) Rilsan™ Polyamide Coating
 (CG02) Polyester Based EPC
 (CG03) High Built FBE

Internal Vitreous Enamel Coating:

(IV01) Yes
 (IV02) No

Body and Cover Material:

(BC01) Ductile Iron
 (BC02) Cast Steel WCB
 (BC03) NAB

Tubing and Fittings:

(TU01) Stainless Steel 316
 (TU02) Cupro-Nickel
 (TU03) Monel

Accessories:

(AX01) Brass Nickel Plated
 (AX02) Stainless Steel CF8M
 (AX03) NAB
 (AX04) Monel

Hazardous Zone Rating:

(HZ01) None
 (HZ02) Yes - Customer to Specify

Resetability:

On/ Off, Local Reset, Remote Reset.

Deluge

Name

Deluge Panel



Application

Electric-Actuated Deluge Systems must be controlled from a listed- compatible deluge panel. Archer offers dual releasing special hazard suppression control units that are field configurable for use on Deluge Sprinkler Systems, Pre-Action Sprinkler Systems and Agent Release Systems.

General Specification

Listed to UL 864

Suppression control panel is field configurable to operate with a Deluge Sprinkler System, a Pre-action Sprinkler System and an Agent Release System Six Class B (Style B) Input Circuits.

Input Circuits One to Four can be configured as Non-Verified Alarm, Non Latching Supervisory, Latching Supervisory or Agent Release/Water Flow depending on the Mode of Operation selected.

Input Circuits Five & Six can be configured as Manual Release Input, Abort Input or Abort/ Manual Release Combination Input depending on the Mode of Operation selected.

Input Circuits can be converted to Class "A" (Style "D") using the ICAC-306 Converter Module.

Four Class "B" (Style "Y") Output Circuits which can be configured for Silenceable Signal, Non-Silenceable Signal, Silenceable Strobe, Non-Silenceable Strobe or Releasing Circuit (Circuits 3 & 4 Only).

Output Circuits can be converted to Class "A" (Style "Z") using the OCAC-304 Converter Module.

5 Amp Power Supply.

4-wire smoke power 22.3 VDC @ 300ma max. Supervised Aux Power 22.3 VDC @ 500ma max.

Aux Power (Unregulated) 24 VDC @ 1.7 Amp max.

Relay contacts for Common Alarm (Non Disconnectable), Auxiliary Alarm (Disconnectable), Common Supervisory (can be converted to common alarm if no Supervisory input) and Common Trouble.

Cross Zone option.

Counting Zones option.

Output signals can be configured for Steady (fixed) or Escalating (tone changes as input operation changes).

Release Timer 0 to 60 Seconds (5 second increments).

Part No. FP038-CLxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Colour:

(CL01) Red door

(CL02) White door

Deluge

Name

Medium Velocity Spray Nozzle



Application

Medium Velocity Water Spray Nozzles are open type non-automatic nozzles, designed for directional spray application in fixed water spray system. Medium velocity water spray nozzle have an external deflector, which discharges water in a directional cone shaped pattern of small droplet size. The water is uniformly distributed over the surface to be protected. Ideal for Exposure Protection and Deluge Systems.

General Specification

Standard: Brass Construction.
 Maximum Working Pressure: 12 Bar (175 PSI).
 Open orifice design used in deluge water spray system
 Non-automatic fixed pattern, external deflector.
 Solid cone discharge
 Several combination of different orifice sizes & spray angles.
 Each Nozzle body permanently marked with model number, batch number, spray angle, K-factor & UL mark.
 Finish - Brass, Bright Nickel Chrome or Natural Finish.
 Approvals - UL Listed, FM Approved and Lloyd's Register Type Approved.
 FM Approved Blow-Off Plug.

Part No. FP039-KFxx-SLxx-FNxx-EDxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Material:	(KF09) 91	(FN02) Chrome plated nickel
(MA01) Brass material	(KF10) 102	(FN03) Electroless nickel plated
(MA02) Stainless steel material		(FN04) Epoxy powder coated
(MA03) Aluminium bronze material		(FN05) Natural finish
K-factor (metric):	Spray angle:	End connection:
(KF01) 18	(SL01) 140°	(ED01) ½" BSPT
(KF02) 22	(SL02) 120°	(ED02) ½" NPT
(KF03) 30	(SL03) 110°	
(KF04) 35	(SL04) 100°	
(KF05) 41	(SL05) 90°	
(KF06) 51	(SL06) 80°	
(KF07) 64	(SL07) 65°	
(KF08) 79	Finish:	
	(FN01) Natural brass finish	

Name

High Velocity Spray Nozzle



Application

High Velocity Water Spray Nozzles are internal swirl plate type open nozzles designed for use in fixed water spray or deluge systems for fire protection applications. These nozzles produce a solid uniform and dense core of high velocity water spray to effect fire control. Nozzles are normally used to cool the surface as well as for extinguishment. High Velocity Water Spray Nozzles are typically used for Deluge protection of special hazards such as oil filled transformers, switch-gear, chemical process equipments, conveyor system and flammable liquid storage areas.

General Specification

Non-automatic, open orifice, directional spray nozzle
 Maximum Working Pressure: 12 Bar (175 PSI)
 Effective Working Pressure: 3.5 Bar to 10.5 Bar (50 - 150 PSI)
 Weight Approx.: 0.200 Kg
 Nozzle also available with blow-off cap
 UL Listed

Part No. FP040-KFxx-SLxx-FNxx-EDxx-MAxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

K-factor (metric):	Spray angle:	Finish:
(KF01) 18	(SL01) 75°	(FN01) Natural finish
(KF02) 22	(SL02) 80°	(FN02) Nickel chrome plated
(KF03) 23	(SL03) 90°	
(KF04) 26	(SL04) 100°	End connection:
(KF05) 32	(SL05) 115°	(ED01) ½" BSPT
(KF06) 42	(SL06) 120°	(ED02) ½" NPT
		Material:
		(MA01) Brass with Copper Strainer
		(MA02) Stainless Steel CF8M

Deluge

Name

Radiant Heat Shield Nozzle



Application

Radiant Heat Shield Nozzles produce a flat curtain of water projecting upward. These nozzles are used to segregate the area by creating a water curtain. Ideal for providing a radiant heat shield during manual fire fighting operations. Can be deployed on a portable hose or part of fixed water spray system.

General Specification

Flow at 6.9 bar (100 psi), 1000 to 3000 lpm
(264 to 792 gpm)
Maximum Working Pressure: 14 Bar (200 PSI)
Finish: Natural finish or Epoxy painted

Part No. FP041-MAxx-WCxx-SZxx-FSxx-FNxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Material:

(MA01) Bronze construction to IS:318
(MA02) Stainless steel construction

Size:

(SZ01) 2½"
(SZ02) 3"
(SZ03) 4"

Finish:

(FN01) Natural finish
(FN02) Epoxy painted

Water curtain type:

(WC01) Type A (Wide)
(WC02) Type B (Narrow)

Flange connection specification:

(FS01) Flange to ANSI B16.24 #150
for bronze ANSI B16.5 #150
for SS
(FS02) 2½" BS336 Instantaneous
Male (for 2½" Size)

Name

Tank Cooling Nozzle



Application

The Tank Cooling Nozzle distributes water in a flat curtain. Tank Cooling Nozzles are typically mounted in an upright position at a distance from the exterior wall of the tank for exposure protection of the tank. In case of fire in the vicinity of the tank it prevents the tank from absorbing the heat radiation.

General Specification

Maximum Working Pressure: 12 Bar (175 PSI)
Finish: Natural (For model TS optional Ni-Cr plated)
(For model TSS optional Electroless Ni plated)
Weight Approx.: 0.180 Kg
Non-automatic open orifice
UL Listed

Part No. FP042-KFxx-FNxx-EDxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Material:

(MA01) Brass construction
(MA02) Stainless steel construction

K-factor (metric):

(KF01) 20
(KF02) 30
(KF03) 37
(KF04) 42
(KF05) 58
(KF06) 79

Finish:

(FN01) Natural
(FN02) Ni-Cr plated for brass
construction
(FN03) Electroless Ni plated for
stainless steel construction

End connection:

(ED01) 1/2" BSPT
(ED02) 1/2" NPT

Foam

Name

Class A Foam Concentrate



Application

Class A foam concentrate is a synthetic firefighting foam concentrate specially designed to be used for wildland, structural and other Class A fuel fires. It works by reducing the surface tension of water, which substantially increases the water's overall wetting capability. This creates a faster penetration and greater fire control when attacking combustible Class A fuels.

General Specification

Class A foam concentrate is biodegradable and non-toxic, so it is environmentally sustainable.
Available in 20 Ltr Pails
Proportioning Rate: 0.1% - 1.0%
Suitable for Fresh, salt or brackish water.

Part No. FP043

Name

AFFF Foam Concentrate



Application

AFFF foam concentrate is a synthetic foam concentrate used to effectively extinguish Class B hydrocarbon fuel fires. AFFF foam concentrate provides rapid extinguishment and excellent burn back characteristics and can be used with fresh, salt and brackish water.
AFFF foam concentrate can be applied to Class B hydrocarbon fuel fires. It is not intended for use on Class B polar solvent fuels. The foam concentrate can be used to prevent re-ignition of a liquid spill and control hazardous odors. Foam non-air aspirating, as well as air aspirating equipment, including standard fire sprinkler heads, can be used to obtain optimal results.

General Specification

Storage temperature range: 35°F to 120°F (1.7°C to 49°C)
Freezing point: 28°F (-2.2°C)
Max. Storage temp.: 120°F (49°C)
Compatible with Carbon steel, stainless steel, brass, polyethylene and PVC
Compatible with fresh, brackish and sea-water
Do not contain PFOS
Complies with the (USEPA) 2010/2015 PFOA product stewardship program

Part No. FP044-STxx-APxx-RTxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Storage Type:

(ST01) 5 gallon, 20 litre pail
(ST02) 55 gallon, 200 litre drum
(ST03) 265 gallon, 1000 litre tote
(ST04) Bulk

Approvals:

(AP01) EN Compliant
(AP02) ULFM
(AP03) ICAO

Ratio:

(RT01) 1%
(RT02) 3%
(RT03) 6%

Name

Fluorine Free Foam Concentrate



Application

Fluorine Free foam concentrates are intended for use on Class B hydrocarbon and polar solvent fuel fires. Concentrates are available in 3%, 6% and 3% x 6% ATC formulations. Fluorine Free foam concentrates can be used to prevent re-ignition of a liquid spill and control hazardous odors, and will improve extinguishment in deep-seated fires.

General Specification

Storage temperature range: 35°F to 120°F (1.7°C to 49°C)
Freezing point: 23°F (-5°C)
Max. Storage temp.: 120°F (49°C)
Compatible with fresh, brackish and sea-water
Compatible with Carbon steel, stainless steel, brass, polyethylene and PVC.
Fluorosurfactant Free

Part No. FP045-SYxx-APxx-RAxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Storage Type:

(SY01) 5 gallon, 20 litre pail
(SY02) 55 gallon, 200 litre drum
(SY03) 265 gallon, 1000 litre tote
(SY04) Bulk

Approvals:

(AP01) EN Compliant
(AP02) ULFM
(AP04) ICAO

Ratio:

(RA01) 1%
(RA03) 3%

Foam

Name

AR-AFFF Foam Concentrate



Application

AR-AFFF Foam Concentrate is a synthetic, alcohol-resistant foam concentrate used to effectively extinguish Class B hydrocarbon and polar solvent fuel fires. AR-AFFF Foam provides rapid extinguishment and excellent burn back characteristics and can be used with fresh, salt and brackish water

AR-AFFF Foam concentrate can be applied to either Class B hydrocarbon or polar solvent fuel fires.

The foam concentrate can be used to prevent re-ignition of a liquid spill and control hazardous odors. Foam non-air aspirating, as well as air aspirating equipment including standard fire sprinkler heads, can be used to obtain maximum results. AR-AFFF foam concentrate is compatible with most powder (dry chemical) agent.

General Specification

Storage temperature range: 35°F to 120°F (1.7°C to 49°C)-

Freezing point: 28°F (-2.2°C)

Max. Storage temp.: 120°F (49°C)

Compatible with Carbon steel, stainless steel, brass, polyethylene and PVC

Compatible with fresh, brackish and sea-water

Do not contain PFOS

Complies with the (USEPA) 2010/2015 PFOA product stewardship program

Part No. FP046-SYxx-APxx-RAx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Storage Type:

(SY01) 5 gallon, 20 litre pail
(SY02) 55 gallon, 200 litre drum
(SY03) 265 gallon, 1000 litre tote
(SY04) Bulk

Approvals:

(AP01) EN Compliant
(AP02) ULFM
(AP04) ICAO

Ratio:

(RA01) 1 x 3
(RA02) 3 x 3
(RA03) 3 x 6

Name

FP Foam Concentrate



Application

Fluoroprotein foam concentrate is a protein based foam concentrate with a small amount of fluoro-surfactant that increases the extinguishing efficiency of the foam. Suitable for Class B fires of Hydrocarbons in fixed roof tanks like crude oil, gasoline, diesel, aviation fuel, kerosene etc. in sectors like refineries, tank terminals, process areas, power plants, port terminals, airports, offshore and onshore installations, etc.

General Specification

Freezing point: 5°F (-15°C)

Max. Storage temp.: 120°F (49°C)

Compatible with Carbon steel, stainless steel, brass, polyethylene and PVC

Compatible with fresh, brackish and sea-water

FP Foam is environmentally safe, bio-degradable, low toxic to the aquatic organisms.

Part No. FP047-SYxx-APxx-RAx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Storage Type:

(SY01) 5 gallon, 20 litre pail
(SY02) 55 gallon, 200 litre drum
(SY03) 265 gallon, 1000 litre tote
(SY04) Bulk

Approvals:

(AP01) EN Compliant
(AP02) ULFM
(AP03) ICAO

Ratio:

(RA01) 3%
(RA02) 6%

Foam

Name

FFFP Foam Concentrate



Application

Film Forming Fluoroprotein foam concentrate is a protein based foam concentrate with added fluorosurfactant to provide better spreading ability and burnback resistance. Suitable for Class B fires of Hydrocarbons in fixed roof tanks like crude oil, gasoline, diesel, aviation fuel, kerosene etc. in sectors like refineries, tank terminals, process areas, power plants, port terminals, airports, offshore and onshore installations, etc.

General Specification

Freezing point: 5°F (-15°C)
 Max. Storage temp.: 120°F (49°C)
 Compatible with Carbon steel, stainless steel, brass, polyethylene and PVC
 Compatible with fresh, brackish and sea-water
 FFFP Foam is environmentally safe, bio-degradable, low toxic to the aquatic organisms.

Part No. FP048-SYxx-APxx-RAxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Storage Type:

(SY01) 5 gallon, 20 litre pail
 (SY02) 55 gallon, 200 litre drum
 (SY03) 265 gallon, 1000 litre tote
 (SY04) Bulk

Approvals:

(AP01) EN Compliant
 (AP02) ULFM
 (AP03) ICAO

Ratio:

(RA01) 3%
 (RA02) 6%

Name

Bladder Tank Proportioning System



Application

The Bladder Tank Foam Proportioning System is an integrated foam proportioning and storage unit that utilises the water pressure to inject foam concentrate into a water supply and automatically proportions foam concentrate over wide range of flow and pressure, with very low pressure drop.

General Specification

Maximum working pressure 12 Bar (175 PSI)
 Tank made to ASME Code Section VIII Div I
 ASME U Stamp available as an option
 Concentrate Storage Capacity: For Vertical Tank 140 liters to 7500 liters (36 TO 2000 Gallon (US)), For Horizontal Tank 140 liters to 15000 liters (36 to 4000 Gallon (US))
 Compatible with all foam concentrates
 Nylon reinforced Buna-n-rubber bladder
 Proportioner pre-piped on to the tank
 Ratio Controller: Wafer type with Stainless Steel 304/CF8 standard supply
 Vent and Drain: Ball valve
 Finish: Red RAL 3000
 UL Listed and FM Approved

Part No. FP049-TNxx-MAxx-RZxx-RTxx-SIxx-LAxx-PUxx-CIxx-PMxx-PAxx-SDxx-ITxx-RVxx-TMxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Tank mounting type:

(TN01) Vertical
 (TN02) Horizontal

Slight gauge with shut off and drain

valve:
 (SI01) None
 (SI02) Glass
 (SI03) Polycarbonate

Painting:

(PA01) Red RAL 3000
 (PA02) Customised - Customer to Specify

Material:

(MA01) Carbon Steel
 (MA02) Stainless Steel

Ladder:

(LA01) No
 (LA02) Yes

Seismic designed tank:

(SD01) No
 (SD02) Yes

Storage capacity:

Customer to Specify

Pressure gauges:

(PU01) No
 (PU02) Yes

Internal Coating:

(IT01) None
 (IT02) Coal tar epoxy internal coating

Ratio Controller Size:

(RZ01) 2"
 (RZ02) 2.5"
 (RZ03) 3"
 (RZ04) 4"
 (RZ05) 6"
 (RZ06) 8"

Concentrate control valve:

(CI01) No
 (CI02) Yes

Relief valve:

(RV01) None
 (RV02) Yes

Ratio controller:

(RT01) Wafer type with stainless steel 304/ CF8 standard supply
 (RT02) Stainless steel 316/CF8M
 (RT03) Bronze optional - flanged type

Pipe Material:

(PM01) Carbon Steel
 (PM02) Stainless steel 304
 (PM03) Stainless steel SS316
 (PM04) Stainless Steel 316L

Thermal relief valve:

(TM01) None
 (TM02) Yes

Foam

Name

Foam Atmospheric Tank



Application

An atmospheric foam concentrate storage tank is a key component in a balanced pressure proportioning system. Atmospheric storage tanks are normally used in conjunction with balanced pressure pump proportioning or inline balanced pressure proportioning skid type systems.

General Specification

Storage Capacity - 150 to 17500 L
Comes regularly furnished with 2% Expansion Dome, Fill connection, Drain connection at bottom, Flanged suction connection at the bottom of tank, Flanged return connection at the bottom or at the top of tank, Sight Gauge, Air Vent and Lifting Hook

Part No. FP050-MAxx-CFxx-LWxx-FXxx-PNxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Capacity:

Customer to Specify

Low liquid level indicator float switch:

(LW01) None
(LW02) Yes

Pressure vacuum vent/drain valve:

(PN01) None
(PN02) Yes

Material:

(MA01) Cross-linked polyethylene
(MA02) Carbon steel
(MA03) Stainless steel
(MA04) Fiberglass

Flex connectors:

(FX01) None
(FX02) 38mm flanged
(FX03) 51mm flanged
(FX04) 76mm flanged
(FX05) 102mm flanged
(FX06) 152mm flanged

Configuration:

(CF01) Vertical
(CF02) Horizontal

Name

Foam Pump Proportioning System



Application

Balance Pressure pump skid-proportioning systems accurately control the flow of foam concentrate in to the water stream. The system automatically controls the foam concentrate over a wide range of flow and pressure, without manual adjustment.

The system is typically used in the fixed foam system and specialised mobile equipments to protect tank farm, offshore platform, air craft hanger, marine dock, loading rack and in many other applications and for all types of hazard

General Specification

Compact skid mounted unit with Foam Concentrate Pump, Ratio Controller, By-pass Valve, Relief Valve, Electricals etc
Offers wide range of flow from 270 to 18500 lpm (71 to 4887 gpm) without any need for manual adjustment
Ready to Connect to the System

Part No. FP051-RPxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Flow range:

Customer to Specify

Maximum Pressure:

Customer to Specify

Redundant Pump:

(RP01) No
(RP02) Yes

Foam

Name

In-Line Balanced Pressure Proportioner



Application

The In-Line Balance Pressure Foam Proportioners is used with positive displacement foam concentrate supply pumps. The system controls accurately the flow of foam concentrate into the water stream over a wide range of flow rate and pressure.

General Specification

Flow Rate: 270 to 18500 lpm
 Working pressure 3 to 14 bar (50 to 200 psi)
 Mounting Between the Flanges: ANSI B16.5-150#
 Thread Opening: BSPT/NPT optional
 Pressure Sensing Hose: TEFLON tube with Stainless Steel braided cover
 Trim Connection And Various Control Valves: Stainless Steel
 Factory Hydrostatic Test Pressure: 25 Kg./ Sq.cm. (350 PSI)
 Finish: Epoxy Red Painted

Part No. FP052-CYxx-SZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Construction:

(CY01) Bronze construction IS 318/
 ASTM B62
 (CY02) Stainless steel (304)
 construction (ASTM A351-CF8)

Size:

(SZ01) 3"
 (SZ02) 4"
 (SZ03) 6"

Name

In-Line Foam Inductor



Application

Inline Foam Inductors are used for applications involving a single discharge device. The Inline Inductors are not suitable for variable flow or pressure applications. The Inline Inductors are not suitable for Sprinkler systems or systems utilizing multiple small orifice discharge devices, which may result in increased back pressure due to blockage of discharge device.

General Specification

Flow Rate: 75 to 3500 lpm
 Working pressure 6.4 to 12 bar (93 to 175 psi)
 Maximum back pressure as 65%
 Induction: 3 or 6%
 Factory Hydrostatic Test Pressure: 25 Kg./ Sq.cm. (350 PSI)
 Finish: Red RAL 3000
 Each unit is calibrated and factory tested for flow, induction rate at maximum back pressure

Part No. FP053-MAxx-IXxx-IZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Material:

(MA01) Bronze material
 (MA02) Stainless steel material

Induction:

(IX01) 3%
 (IX02) 6%

Inductor size:

(IZ01) 2½"
 (IZ02) 3"
 (IZ03) 4"
 (IZ04) 6"

Name

Foam Maker



Application

A Foam Maker is used in protecting rim seal areas of floating roof storage tanks.

General Specification

Flow Rate: 75 to 550 LPM
 Working pressure 2.8 to 7 Bar (40 to 100 PSI)
 Flange Connection: ANSI B 16.5 class 150#
 Epoxy painted from inside and outside
 Weight Approx.: 50 NB - 9.9 Kg, 65 NB - 14.0 Kg
 Supplied with Stainless Steel orifice
 UL Listed

Part No. FP054-MAxx-ILxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Material:

(MA01) Carbon steel construction
 (MA02) Stainless steel construction

Inlet size:

(IL01) 2"
 (IL02) 2½"

Foam

Name

Foam Bund Pourer



Application

These are air-aspirating foam discharge devices designed to protect bund areas in event of fire due to flammable liquid spills.

General Specification

Flow Rate: 80 to 1400 LPM (21 to 370 GPM)
 Working pressure: 2.8 to 7 Bar (40 to 100 PSI)
 Epoxy painted from inside and outside
 Supplied with Stainless Steel orifice
 Choice of various pourers

Part No. FP055-MAxx-SZxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Material:

(MA01) Carbon steel construction
 (MA02) Stainless steel construction

Size:

(SZ01) 2"
 (SZ02) 3"
 (SZ03) 4"

Name

Rim Seal Foam Pourer



Application

Rim Seal Foam Pourer consists of a Foam Maker, a windshield and an integral deflector. This is designed to deliver fully aspirated foam directly to the annular seal area of open top floating roof tanks.

General Specification

Size 2½"
 Flange Connection: ANSI B16.5 class 150#
 Epoxy painted from inside and outside
 UL Listed

Part No. FP056-CYxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Construction:

(CY01) Carbon steel
 (CY02) Stainless steel

Name

Foam Chamber



Application

Foam Chambers are used in one of the most common applications to protect vertical fixed roof (cone) liquid storage tanks, with or without internal floating roof with low expansion foam system. Foam Chambers are attached to the tank wall to discharge foam over the fuel surface in the event of fire.

General Specification

Flow rate: 100 to 1800 LPM (26 to 476 GPM)
 Working pressure 2.8 to 7 Bar (40 to 100 PSI)
 Vapour Seal Rupture Pressure: 0.7 to 1.75 Kg/ sq.cm
 (10 PSI to 25 PSI) Running water/ water foam solution pressure at inlet of Foam Chamber
 Flange Connection: ANSI B16.5 Class 150#
 Epoxy painted from inside and outside
 Weight: 2½" - 34.5 Kg, 3" - 49.5 Kg, 4" - 72.0 Kg, 6" - 110 Kg
 Supplied with Stainless Steel orifice plate
 Frangible glass vapour seal
 UL Listed and FM Approved

Part No. FP057-CYxx-ILxx-APxx-VPxx-DFxx-FMxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Construction:

(CY01) Carbon steel
 (CY02) Stainless steel

Approvals:

(AP01) UL Listed
 (AP02) FM approved

Deflector:

(DF01) Solid
 (DF02) Split

Inlet size:

(IL01) 2½"
 (IL02) 3"
 (IL03) 4"
 (IL04) 6"

Vapour seal:

(VP01) Glass standard supply
 (VP02) Optional graphite - only for FM approvals

Finish color:

(FM01) Red RAL3000 standard supply
 (FM02) Other shade optional

Foam

Name

Foam Aspirating Nozzle



Application

The Foam-Water Sprinklers are used in foam deluge systems where an air-aspirated foam is required. Air aspirated nozzles are important to achieve a gentle application of foam, for example, in the application of Alcohol resistant foams.

General Specification

Air aspirating type
Size: 1/2"
Maximum Working pressure: 12 bar (175 PSI)
Operating Pressure: 2.1 Bar (30 PSI) minimum,
4.2 Bar (60 PSI) maximum
K - Factor 42
Pendent mounting
Finish: Natural finish
Weight: 0.465 Kg
UL Listed

Part No. FP058-CYxx-EDxx-

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Construction:

(CY01) Stainless steel
(CY02) Bronze

End connection:

(ED01) 1/2" BSPT
(ED02) 1/2" NPT

K-factor:

(KF01) K-42 standard
(KF02) Other K-factor can be provided w/o listings & approvals

Name

Foam Concentrate Control Valve



Application

Foam concentrate control valves are designed for use in bladder tank foam system or inline balance pressure proportioning system.

General Specification

Factory Hydrottested: 25 Kg./ sq.cm.
Operating Pressure: MIN 2.1 Kg/SqCm (30 PSI), MAX 12.3 Kg/ SqCm (175 PSI)
Inlet & Outlet Connection: Flanged end to ANSI B16.5# 150RF
Approvals: FM
Visua Indication: Red for Closed & Yellow for Open
Remote Indication: limit switch box, Ex. Proof, Class-1, Group-C&D, IIA, IIB, & C
Pressure Sensing Hose: Teflon tube with Stainless Steel braided cover
Trim Connection: Brass/ Stainless Steel
Finish: RED RAL 3000

Part No. FP059-MLxx-SZxx-MAxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Model:

(ML01) CV
(ML02) H

Size:

(SZ01) 1"
(SZ02) 1 1/2"
(SZ03) 2"

Material:

(MA01) Stainless steel 304 standard
(MA02) 304L 310
(MA03) 316L

Foam

Name

Foam Dosing Piston Pump



Application

Foam Dosing Systems provides foam proportioning over a wide range of flows, without the need of a pressure vessel bladder tank or electric pump. It uses the energy from the water flow to drive a pump. The foam dosing system with piston pump is used for low viscosity foam concentrates.

General Specification

Flow Rate: Up to 12,000 LPM
Max inlet operating pressure: 16 bar (232 psi)
Factory tested pressure: 24 bar (350 psi)
Suction height: 0 meters (0 ft) Gravity feed
Operation temperature: 1°C to 50 °C (34°F to 122°F)
Storage temperature, dry condition: -30°C to 50°C (-22° to 122°F)
Material: Fresh Water Medium
Water motor: Alu AA 6082/7075, Hard-anodized and PTFE-coated, AISI 316 (fasteners), PET (vanes), NBR (O-rings).
Dosing pump: Stainless steel, brass, ceramics, NBR
Piping: AISI 316
Fittings: Brass
Ball valves: Nickel-plated brass
Material: Seawater Medium
Water motor: Bronze gunmetal, AISI 316 (fasteners), PET (vanes), NBR (O-rings) Dosing pump: Stainless steel, brass, ceramics, NBR
Piping: AISI 316
Fittings: Brass
Ball valves: Nickel-plated brass

Part No. FP060-MAxx-DOxx-DVxx-YSxx-BPxx-FBxx-CBxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Materials:

(MA01) Aluminium - for fresh water
(MA02) Bronze - for saltwater/offshore

Dosing return valve:

(DV01) None
(DV02) Yes

Fittings and ball valves material:

(FB01) Brass
(FB02) Acid-proof stainless steel

Dosing rate:

(DO01) 0.5%
(DO02) 1%
(DO03) 2%
(DO04) 3%

Y-strainer:

(YS01) None
(YS02) Yes

Certifications:

(CB01) Base
(CB02) DNV/Germanischer Lyoyd
or Bureau Veritas

Base plate:

(BP01) None
(BP02) Yes

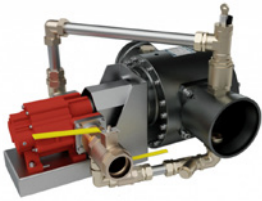
Capacity:

Customer to Specify

Foam

Name

Foam Dosing Gear Pump



Application

Foam Dosing Systems provides foam proportioning over a wide range of flows, without the need of a pressure vessel bladder tank or electric pump. It uses the energy from the water flow to drive a pump. The foam dosing system with gear pump is used for high viscosity foam concentrates.

General Specification

Flow Rate: Up to 12,000 LPM
 Max inlet operating pressure: 12 bar (175 psi)
 Factory tested pressure: 24 bar (350 psi)
 Suction height: 0 - 3 meters (0 - 10 ft)
 Operating temperature: 1°C to 50 °C (34°F to 122°F)
 Storage temperature, dry conditions: -30°C to 50°C (-22° to 122°F)
 Material: Fresh Water Medium
 Water motor: Alu AA 6082/7075, Hard-anodized and PTFE-coated, AISI 316 (fasteners), PET (vanes), NBR (O-rings).
 Dosing pump: Stainless steel, brass, ceramics, NBR
 Piping: AISI 316
 Fittings: Brass
 Ball valves: Nickel-plated brass
 Material: Sea Water Medium
 Water motor: Bronze gunmetal, AISI 316 (fasteners), PET (vanes), NBR (O-rings)
 Dosing pump: Stainless steel, brass, ceramics, NBR
 Piping: AISI 316
 Fittings: Brass
 Ball valves: Nickel-plated brass

Part No. FP061-MAxx-DOxx-RDxx-DVxx-YSxx--BPxx-FBxx-CBxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Materials:

(MA01) Aluminium - for fresh water
 (MA02) Bronze - for saltwater/offshore

Dosing return valve:

(DV01) None
 (DV02) Yes

Fittings and ball valves material:

(FB01) Brass
 (FB02) Acid-proof stainless steel

Dosing rate:

(DO01) 1%
 (DO02) 2%
 (DO03) 3%

Y-strainer:

(YS01) None
 (YS02) Yes

Certifications:

(CB01) Base
 (CB02) DNV/Germanischer Lyoyd or Bureau Veritas

Reversed flow direction (right to left):

(RD01) None
 (RD02) Yes

Base plate:

(BP01) None
 (BP02) Yes

Capacity:

Customer to Specify

Name

Ratio Controller



Application

Ratio Controller is used for proportioning foam concentrate into the water supply with a wide range of flow and pressure. Ratio Controllers are usually installed together with a bladder tank, as it requires balanced foam and water pressures to achieve consistent proportioning ratio.

General Specification

Max. Service Pressure: 14 Bar (200 PSI) 12.3 Bar (175 PSI) for UL & FM
 Factory Hydro Test Pressure: 25 Kg./Sq.cm. (350 PSI)
 Mounting: Between the flanges ANSI B16.5 - 150#
 Approval: UL Listed and FM Approved
 Finish: Red RAL 3000 or Natural Finish

Part No. FP062-CYxx-RYxx-SZxx-FNxx

For enquiries and orders, select the options below and complete the part number by replacing each 'xx' with the relevant option number.

Construction:

(CY01) Bronze construction
 (CY02) Stainless steel construction

Size:

(SZ01) 2½"
 (SZ02) 3"
 (SZ03) 4"
 (SZ04) 6"
 (SZ05) 8"

Finish:

(FN01) Red RAL3000
 (FN02) Natural finish

Ratio controller style:

(RY01) Wafer - Specify standard
 (RY02) Flange - Specify standard

Hypoxic Air Fire Prevention

Name

FirePASS Compact Hypoxic Air Generator



Application

FirePASS Hypoxic air generators operate by filtering a part of the oxygen from ambient air and providing fresh hypoxic air for the ventilation of the protected areas. As a result, a slight positive pressure will be established inside the protected room. The positive pressure will keep out dust and other impurities, while constant hypoxic ventilation will aid in the removal of gaseous products that may be generated inside the room.

The Compact Unit is the smallest unit available and is ideal for small protected spaces such as building server rooms.

General Specification

Capacity: 120 NI/min airflow @ 15% O₂ and @ 20 degree Celsius
Cabinet: Metal case
Dimensions: 55 x 27 x 58 cm (H x W x D)
Weight: 56lbs/25kg
Power consumption: 500 W
Voltage: 230VAC/50 Hz (other voltages on request)

Part No. FP063

Call for more information.

Name

FirePASS self-contained Hypoxic Air Generator



Application

The FirePASS self-contained unit is for protection of small to medium sized rooms. Suitable for protection of large server rooms or multiple server rooms on a selector valve system.

General Specification

Cabinet: Metal case
Dimensions: 193 x 80 x 40 cm (H x W x D)
Weight: approx. 160 kg
Power consumption: 1.6 kW
Voltage: 230VAC/50 Hz (other voltages available upon request)
3 reliable oil free low pressure compressors
Air-to-air cooler
Automatic drain and vaporizer
Control unit equipped with touch screen display
Separate or built in oxygen analyzer unit
Thermal protection

Part No. FP064

Call for more information.

Name

FirePASS Skid Mounted Unit for Very Large Spaces



Application

Oxygen reduction fire prevention systems FP-5000 to FP-20000 can permanently protect compartments from 10,000 m³ to 100,000 m³ in volume and more.

Part No. FP066

Call for more information.

Hypoxic Air Fire Prevention

Name

FirePASS Control Panels



Application

The control unit has a user-friendly touch screen for easy programming and settings, protected by passwords to provide various levels of security. The touch screen will be installed in the generator metal cabinet jointly with the control unit. It may be optionally installed in a separate small metal cabinet and located remotely.

The control unit shows and tracks all alarms and warnings and stores the system performance data over a period of time of more than one year, including the regularly tracked O₂-levels measured by the oxygen monitoring units. The data can be written to a USB drive and transmitted to a computer for analysis.

The control unit may be enabled to communicate with a building management system installed on site by Modbus TCP/IP protocol via standard Ethernet cable. Alternatively, the system can be upgraded to be monitored and controlled from any PC via a web-browser based interface.

The control unit will be equipped with a UPS (hold-time 24 hours) that supplies the control unit and the touch panel as well as the oxygen monitors and the BMS interface. This will keep all monitoring and alarming functionalities working even in the event of mains power failure.

Control Panels can be installed in the generator metal cabinet jointly with the control unit or in a separate small metal cabinet and located remotely. Various network options such as Modbus TCP/IP protocol via standard Ethernet cable and PC control via web browser based interface, are also available.

Part No. FP067

Call for more information.

Name

FirePASS Oxygen Monitors



Application

As part of the oxygen reduction fire prevention system, FirePASS provides a high quality dedicated stand-alone continuous oxygen monitoring system for the detection of oxygen content specifically in hypoxic environments.

The FirePASS Oxygen Analyzer consists of a digital display sensor head and proprietary zirconium oxide sensor cell for the detection of O₂ with a range of 0-25%. It also has dual level visual alarm indicators, user selectable dual-level concentration alarms and relay contacts, and system fault relay.

Part No. FP068

Call for more information.

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