

# PRODUCT CATALOGUE

WE PROVIDE  
**INDUSTRIAL SOLUTION**

STEAM | WATER | FIRE SAFETY | OIL  
GAS | PNEUMATIC | HYDRAULIC



**BOILER & VALVE TECHNOLOGY**



**UNILIFE**

**UNILIFE FIRE SAFETY  
& CONSULTANTS LTD.**

Fighting equipment import, trading, supply  
installation, commission, consultancy

## AUTHORIZED BRANDS



# Profile

**BOILER & VALVE TECHNOLOGY** is one of the leading Importers, Suppliers, Distributors and Stockiest of Steel Pipes, Valves & Various Industrial and construction equipment including Fire Safety equipment in Bangladesh. We have been playing a significant role in the country's Industrialization by providing best quality of goods since 2005 the very beginning of this company.

## CORE BUSINESS:

BOILER & VALVE TECHNOLOGY deals in Mild Steel Pipes, Stainless Steel Industrial & Decoration Pipes, Valves, Joints, Pipe fittings and flanges, Industrial Stainless Steel Filter, High Grade Stainless Steel Perforated and Plain Sheet, Fire Safety equipment, Pneumatic Pipes & Control Valves, Tools, Machineries and Various Pumps which used in Steam line, Gas line, Boiler, Generator, Cooling Tower, Generator, Chiller, A/C Plant, Power Plant and Residential & Industrial Fire-fighting etc. We are also a general supplier and we can provide cost effective procurement for various industries. The company leads the business with transparency preserving the best quality.

## FIRST PRIORITY: CUSTOMER SERVICE

BOILER & VALVE TECHNOLOGY has a very comprehensive experience of over 15 years with success. Over the years we have attained Fame, Good will and Reputation. Our Company has a strong history of maintaining long-term relationship with our clients. We strongly believe in quality & commitment and always focus on it to meet Customers Demand and requirement as defined by Customers.

We have been supplying these materials for the past several decades to various industries like Petrochemicals, Refineries, Chemical Process Industries, Fertilizers, Pharmaceuticals, Cement, Shipbuilding, Heating, Power Engineering, Refrigeration & Air conditioning, Fire protection systems, Drinking Water, Sewage, Power Plant, CNG Station, Gas, Industrial Water, Steam, Compressed Air, Neutral Fluids, Garments & Textile Industries, Power Plants, Road Construction etc.

## SOURCING:

We have experience in working with many foreign companies and corporations from all over the globe— Poland, Germany, USA, UK, China, Korea, Turkey, India, Italy, Japan, Vietnam, Singapore, Taiwan, Malaysia, Russia & UAE etc.

## COMPANY VISION:

We believe in Service, Commitment & Quality. BOILER & VALVE TECHNOLOGY's mission is innovative, dynamic development of industrial sectors to save energy and costing in Bangladesh by providing best and quality products and technology with the best affordable cost. And Building up ourselves as a world class Company with the all the facilities and technologies through continuous improvement and development in quality, timely delivery and services.

## OUR VALUES:

### EXCELLENCE:

BOILER & VALVE TECHNOLOGY strive for quality, commitment and continuously innovate utilizing advanced technologies.

### TEAMWORK:

BOILER & VALVE TECHNOLOGY insists on mutual respect, cooperation and mutual encouragement to achieve each individual's potential.

### BUDGET MATCHING:

BOILER & VALVE TECHNOLOGY always tries to provide solutions to clients matching their budget. We always try to provide alternative value for money products to clients depending on their meaning.

### INTEGRITY:

BOILER & VALVE TECHNOLOGY act with reliability, honesty and fairness.

### COMMITMENT:

BOILER & VALVE TECHNOLOGY is fully dedicated to delivering in objectives through the most efficient use of resources.

# Profile

## **SUSTAINABILITY:**

BOILER & VALVE TECHNOLOGY is committed to safeguarding all stakeholders, including especially the health and safety of our employees, society as a whole and the environment.

## **ACCOUNTABILITY:**

BOILER & VALVE TECHNOLOGY is always accountable for carrying out supplies of various materials in accordance with the requirements, values and principles.

We always believe in commitment, quality and service. So, profit comes by logical sequence.

**NUMBER OF EMPLOYEES:** Thirty Five (35)

## **OFFICE FACILITIES:**

- Private, secure work areas
- High-speed Internet access and Local area network Power backup
- 24/7 Supply capability to meet urgent requirements for nonstop construction sites.
- Regular employee training and counseling.

## **FINANCIAL STATUS:**

Yearly Turnover 500,000,000.00 (Five Hundred Million BDT)  
Average of last 3 financial years.

## **TRANSACTION BANKS:**

Bank Asia LTD.  
Brac Bank LTD.  
Premier Bank LTD.

## **LIST OF ASSOCIATION:**

Bangladesh Pipe & Tube Well Merchant's Association



# Our Clients



URMI GROUP



X INDEX GROUP



ASIATIC GROUP



SYLTRADE  
ENGINEERING



ROINWORLD SL



JSC NIKIMT  
ATOMSTROY



ORGENERGOSTROY



TREST ROSSEM



PAHARPUR COOLING  
TOWERS LTD.



ESKM JSC



AMT ENGINEERING JSC



IED HOLDING



MEGHNA GROUP  
OF INDUSTRIES



SQUARE GROUP



LABAID GROUP



DEKKO ISHO GROUP



RAK CERAMIC



AKIJ GROUP



KOHINOOR CHEMICAL  
COMPANY LTD.



BAT BANGLADESH



NAVANA GROUP



VOULUMEZERO LTD

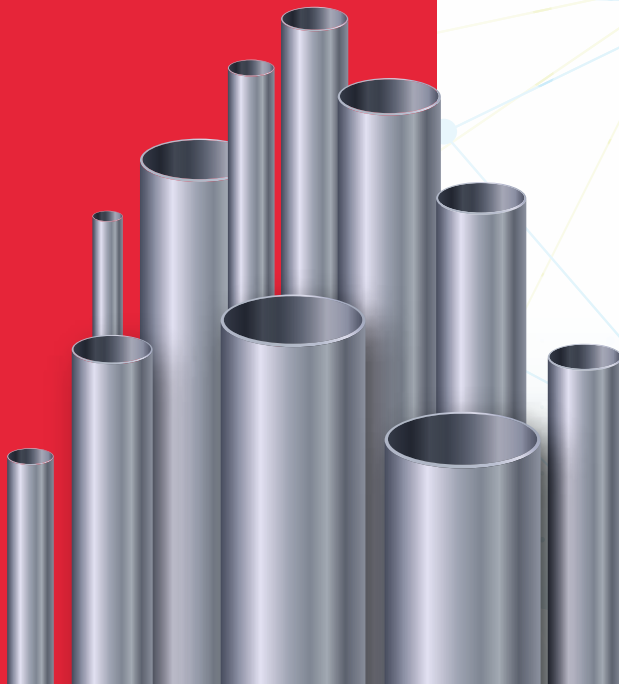
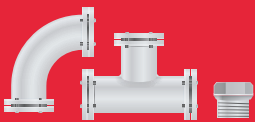
# CERTIFICATES



CARBON STEEL SEAMLESS PIPE  
ELECTRICALLY WELDED (ERW) STEEL PIPE  
MILD STEEL WELDED PIPE  
GALVANIZED STEEL PIPE  
STAINLESS STEEL SEAMLESS PIPE

## INDUSTRIAL PIPES & FITTINGS

BLACK WELDED FITTINGS  
BLACK THREADED FITTINGS  
GALVANIZED THREADED FITTINGS  
STAINLESS STEEL WELDED FITTINGS  
STAINLESS STEEL THREADED FITTINGS  
FLANGES



# INDUSTRIAL PIPES



CARBON STEEL  
SEAMLESS PIPE

Material : Carbon Steel  
Available Standards & Grades :  
API 5L Grade B 40SCH,  
API 5L Grade B 80SCH  
Available Sizes : 1/4" to 24"



ELECTRICALLY WELDED  
(ERW) STEEL PIPE

Material: Carbon Steel  
Available Standards & Grades:  
BS 1387/85 20SCH, BS 1387/85 40SCH  
Available Sizes: 1/4" to 24"



MILD STEEL WELDED PIPE

Material: Mild Steel  
Available Standards & Grades: BS 1387  
Available Sizes: 1/2" to 8"



GALVANIZED STEEL PIPE

Material: Galvanized Steel Pipe  
Available Standards & Grades: BS 1387  
Available Sizes: 1/2" to 8"



STAINLESS STEEL  
SEAMLESS PIPE

Material: Stainless Steel  
Available Standards & Grades:  
ASTM A312 SS304 10SCH  
ASTM A312 SS304 20SCH  
ASTM A312 SS316 10SCH  
Available Sizes: 1/4" to 12"

# BLACK WELDED FITTINGS

90° ELBOW	<p>Material: Carbon Steel Available Standards &amp; Grades: ASTM A234 WPB SCH40</p> <p>Available Sizes: 1/4" to 24"</p>	
45° ELBOW	<p>Material: Carbon Steel Available Standards &amp; Grades: ASTM A234 WPB SCH40</p> <p>Available Sizes: 1/4" to 24"</p>	
STRAIGHT TEE	<p>Material: Carbon Steel Available Standards &amp; Grades: ASTM A234 WPB SCH40</p> <p>Available Sizes: 1/4" to 24"</p>	
REDUCING TEE	<p>Material: Carbon Steel Available Standards &amp; Grades: ASTM A234 WPB SCH40</p> <p>Available Sizes: 1/4" to 24"</p>	
CONCENTRIC REDUCER	<p>Material: Carbon Steel Available Standards &amp; Grades: ASTM A234 WPB SCH40</p> <p>Available Sizes: 1/4" to 24"</p>	
ECCENTRIC REDUCER	<p>Material: Carbon Steel Available Standards &amp; Grades: ASTM A234 WPB SCH40</p> <p>Available Sizes: 1/4" to 24"</p>	
END CAP	<p>Material: Carbon Steel Available Standards &amp; Grades: ASTM A234 WPB SC H40</p> <p>Available Sizes: 1/4" to 24"</p>	



# BLACK THREADED

## BLACK MALLEABLE IRON



ELBOW

Material: Black Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2 1/2"  
FM Approved | UL Listed



REDUCING ELBOW

Material: Black Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 1"  
FM Approved | UL Listed



STRAIGHT TEE

Material: Black Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2 1/2"  
FM Approved | UL Listed



REDUCING TEE

Material: Black Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2"  
FM Approved | UL Listed



CROSS TEE

Material: Black Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CL  
FM Approved | UL Listed



REDUCER

Material: Black Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2"  
FM Approved | UL Listed



UNION

Material: Black Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2"  
FM Approved | UL Listed

# BLACK THREADED BLACK MALLEABLE IRON

SOCKET	<p>Material: Black Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2"</p> <p>FM Approved   UL Listed</p>
REDUCING SOCKET	<p>Material: Black Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2"</p> <p>FM Approved   UL Listed</p>
NIPPLE	<p>Material: Black Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2 1/2"</p> <p>FM Approved   UL Listed</p>
PLUG	<p>Material: Black Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2 1/2"</p> <p>FM Approved   UL Listed</p>



# GALVANIZED THREADED FITTINGS



ELBOW

Material: Galvanized Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2 1/2"  
FM Approved | UL Listed



REDUCING ELBOW

Material: Galvanized Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 1"  
FM Approved | UL Listed



STRAIGHT TEE

Material: Galvanized Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2 1/2"  
FM Approved | UL Listed



REDUCING TEE

Material: Galvanized Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2"  
FM Approved | UL Listed



CROSS TEE

Material: Galvanized Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 3/4"  
FM Approved | UL Listed



REDUCER





Material: Galvanized Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2"  
FM Approved | UL Listed



UNION

Material: Galvanized Malleable Iron  
Available Standards & Grades:  
NPT THREAD ASTM A153 CLASS 150, CLASS 300  
Available Sizes: 1/2" to 2"  
FM Approved | UL Listed

# GALVANIZED THREADED FITTINGS

SOCKET	<p>Material: Galvanized Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2"</p> <p>FM Approved   UL Listed</p>	
REDUCING SOCKET	<p>Material: Galvanized Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2"</p> <p>FM Approved   UL Listed</p>	
NIPPLE	<p>Material: Galvanized Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2 1/2"</p> <p>FM Approved   UL Listed</p>	
PLUG	<p>Material: Galvanized Malleable Iron</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300</p> <p>Available Sizes: 1/2" to 2 1/2"</p> <p>FM Approved   UL Listed</p>	

# STAINLESS STEEL WELDED FITTINGS



90° ELBOW

Material: Stainless Steel  
Available Standards & Grades: WP304 SCH10, WP304 SCH20 WP316 SCH10, WP316 SCH20  
Available Sizes: 1/4" to 12"



45° ELBOW

Material: Stainless Steel  
Available Standards & Grades: WP304 SCH10, WP304 SCH20 WP316 SCH10, WP316 SCH20  
Available Sizes: 1/4" to 12"



STRAIGHT TEE

Material: Stainless Steel  
Available Standards & Grades: WP304 SCH10, WP304 SCH20 WP316 SCH10, WP316 SCH20  
Available Sizes: 1/4" to 12"



REDUCING TEE

Material: Stainless Steel  
Available Standards & Grades: WP304 SCH10, WP304 SCH20 WP316 SCH10, WP316 SCH20  
Available Sizes: 1/4" to 12"



CONCENTRIC REDUCER

Material: Stainless Steel  
Available Standards & Grades: WP304 SCH10, WP304 SCH20 WP316 SCH10, WP316 SCH20  
Available Sizes: 1/4" to 12"



ECCENTRIC REDUCER

Material: Stainless Steel  
Available Standards & Grades: WP304 SCH10, WP304 SCH20 WP316 SCH10, WP316 SCH20  
Available Sizes: 1/4" to 12"



END CAP

Material: Stainless Steel  
Available Standards & Grades: WP304 SCH10, WP304 SCH20 WP316 SCH10, WP316 SCH20  
Available Sizes: 1/4" to 12"



# STAINLESS STEEL THREADED FITTINGS

ELBOW	<p>Material: Stainless Steel</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316.</p> <p>Available Sizes: 1/2" to 2 1/2"</p>	
REDUCING ELBOW	<p>Material: Stainless Steel</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316.</p> <p>Available Sizes: 1/2" to 1"</p>	
STRAIGHT TEE	<p>Material: Stainless Steel</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316.</p> <p>Available Sizes: 1/2" to 2 1/2"</p>	
REDUCING TEE	<p>Material: Stainless Steel</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316.</p> <p>Available Sizes: 1/2" to 2"</p>	
CROSS TEE	<p>Material: Stainless Steel</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316.</p> <p>Available Sizes: 1/2" to 3/4"</p> <p>Available Sizes: 1/2" to 2"</p>	
REDUCER	<p>Material: Stainless Steel</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316.</p> <p>Available Sizes: 1/2" to 2"</p>	
UNION	<p>Material: Stainless Steel</p> <p>Available Standards &amp; Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316.</p> <p>Available Sizes: 1/2" to 2"</p>	

# STAINLESS STEEL THREADED FITTINGS



SOCKET

Material: Stainless Steel  
Available Standards & Grades: NPT THREAD ASTM A153  
CLASS 150, CLASS 300 SS304/SS316.  
Available Sizes: 1/2" to 2"



REDUCING SOCKET

Material: Stainless Steel  
Available Standards & Grades: NPT THREAD ASTM A153  
CLASS 150, CLASS 300 SS304/SS316.  
Available Sizes: 1/2" to 2"



NIPPLE

Material: Stainless Steel  
Available Standards & Grades: NPT THREAD ASTM A153  
CLASS 150, CLASS 300 SS304/SS316.  
Available Sizes: 1/2" to 2 1/2"



PLUG

Material: Stainless Steel  
Available Standards & Grades: NPT THREAD ASTM A153  
CLASS 150, CLASS 300 SS304/SS316.  
Available Sizes: 1/2" to 2"

# FLANGES

TYPE	CARBON STEEL	STAINLESS STEEL
FLAT FACE FLANGE	Available Standards & Grades: ASME B16.5	Available Standards & Grades: NPT THREAD ASTM A153 CLASS 150, CLASS 300 SS304/SS316. Available Sizes: 1/2" to 2 1/2"
RAISED FACE FLANGE	Available Standards & Grades: ASME B16.5 5K/10K Available Sizes: 1/4" to 24"	Available Standards & Grades: ASME B16.5 CLASS 150, CLASS 300 SS304/SS316. Available Sizes: 1/4" to 12"
WELDED NECK FLANGE	Available Standards & Grades: ASME B16.5 5K/10K Available Sizes: 1/4" to 24"	Material: Stainless Steel Available Standards & Grades: ASME B16.5 CLASS 150, CLASS 300 SS304/SS316. Available Sizes: 1/4" to 12"
LAP JOINT FLANGE WITH STUB END	Available Standards & Grades: ASME B16.5 5K/10K Available Sizes: 1/4" to 12"	Available Standards & Grades: ASME B16.5 CLASS 150, CLASS 300 SS304/SS316. Available Sizes: 1/4" to 12"
BLIND FLANGE	Available Standards & Grades: ASME B16.5 5K/10K Available Sizes: 1/4" to 24"	Available Standards & Grades: ASME B16.5 CLASS 150, CLASS 300 SS304/SS316. Available Sizes: 1/4" to 12"





# FLOW CONTROL VALVES



**Gedik Thermo Valve**

**TÜRKİYE**





## FLOW CONTROL VALVES



**BELLOW SEALED  
GLOBE VALVE**

Body Material: Grey Iron (GG25)  
Bellows Material: SS 316Ti (2Layer)  
Nominal Pressure: PN16  
Max. Working Temperature. : 300°C (10BAR)  
Max, Working Pressure: 16 BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN300



**FULL BORE BALL VALVE  
2PART (LEVER OPERATED)**

Body Material: Grey Iron (GG25)  
Ball Material: SS 420 | Gasket Material: PTFE  
Nominal Pressure: PN16 | Body Design: 2Pieces - FB  
Max. Working Temperature. : 180°C (10BAR)  
Max, Working Pressure: 16 BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN300



**FULL BORE BALL VALVE  
2PART (GEAR OPERATED)**

Body Material: Grey Iron (GG25)  
Ball Material: SS 420 | Gasket Material: PTFE  
Nominal Pressure: PN16 | Body Design: 2Pieces - FB  
Max. Working Temperature. : 180°C (10BAR)  
Max, Working Pressure: 16 BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN150 – DN300



**FULL BORE BALL VALVE  
2PART (PNEUMATIC  
ACTUATED)**

Body Material: Grey Iron (GG25)  
Ball Material: SS 420 | Gasket Material: PTFE  
Nominal Pressure: PN16 | Body Design: 2Pieces - FB  
Max. Working Temperature. : 180°C (10BAR)  
Max, Working Pressure: 16 BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN300



**FULL BORE BALL VALVE FOR  
AS 3PART  
(LEVER OPERATED)**

Body Material: Grey Iron (GG25)  
Ball Material: SS 420 | Gasket Material: PTFE  
Nominal Pressure: PN25 | Body Design: 3Pieces - FB  
Max. Working Temperature. : 180°C (10BAR)  
Max, Working Pressure: 16 BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN300

## FLOW CONTROL VALVES

### BALL VALVE TRUNNION TYPE

Body Material: Grey Iron (GG25)  
 Ball Material: SS 420  
 Gasket Material: PTFE  
 Nominal Pressure: CLASS 150/300  
 Body Design: 3Pieces – FB/RB  
 Max. Working Temperature. : 180°C  
 Max, Working Pressure: 20BAR/50BAR  
 Connection Type: Flanged  
 Available Standards: ANSI B16.5  
 Available Sizes: DN50 – DN300



### GATE VALVE

Body Material: GG40.3  
 Gasket Material: EPDM  
 Nominal Pressure: PN16  
 Max. Working Temperature. : 180°C (10BAR)  
 Max, Working Pressure: 16 BAR  
 Connection Type: Flanged  
 Available Standards: DIN2533  
 Available Sizes: DN15 – DN400



### KNIFE GATE VALVE WAFFER TYPE

Body Material: GG40.3  
 Gasket Material: EPDM  
 Nominal Pressure: PN10/16  
 Max. Working Temperature. : 180°C (10BAR)  
 Max, Working Pressure: 16 BAR  
 Connection Type: Flanged  
 Available Standards: DIN2533  
 Available Sizes: DN15 – DN400



### BUTTERFLY VALVE

Body Material: GGG40.3  
 Disc Material: SS 304/316  
 Gasket Material: EPDM  
 Nominal Pressure: PN16  
 Max. Working Temperature. : 110°C  
 Max, Working Pressure: 16BAR  
 Connection Type: FLANGED  
 Available Standards: DIN3202-K1  
 Available Sizes: DN50 – DN350



### STAINLESS STEEL BALL VALVE

Body Material: SS304/316  
 Ball Material: SS304/316  
 Gasket Material: PTFE  
 Nominal Pressure: PN16/PN40  
 Max. Working Temperature. : 180°C (10BAR)  
 Max, Working Pressure: 16 BAR/40BAR  
 Connection Type: Flanged  
 Available Standards: DIN2533  
 Available Sizes: DN15 – DN200



## FLOW CONTROL VALVES



SWING CHECK VALVE

Body Material: GS-C25 (WCB)  
Disc Material: Stainless Steel  
Nominal Pressure: PN16  
Max. Working Temperature. : 180°C  
Max, Working Pressure: 63BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN200



SWING CHECK VALVE

Body Material: GS-C25 (WCB)  
Disc Material: Stainless Steel  
Nominal Pressure: PN16  
Max. Working Temperature. : 180°C  
Max, Working Pressure: 63BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN200



WAFER TYPE DUAL  
CHECK VALVE

Body Material: GS-C25 (WCB)  
Disc Material: Stainless Steel  
Nominal Pressure: PN16  
Max. Working Temperature. : 180°C  
Max, Working Pressure: 63BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN200



STAINLESS STEEL  
BALL VALVE

Body Material: SS304/316  
Ball Material: SS304/316  
Gasket Material: PTFE  
Nominal Pressure: PN63  
Max. Working Temperature. : 180°C  
Max, Working Pressure: 63BAR  
Connection Type: Threaded  
Available Standards: DIN2533  
Available Sizes: DN15 – DN150



STAINLESS STEEL  
BALL VALVE 3 WAY

Body Material: SS304/316  
Ball Material: SS304/316  
Gasket Material: PTFE  
Nominal Pressure: PN63  
Max. Working Temperature. : 180°C  
Max, Working Pressure: 63BAR  
Connection Type: Threaded  
Available Standards: DIN2533  
Available Sizes: DN15 – DN50

## SWING CHECK VALVE

Body Material: SS 304  
 Disc Material: Stainless Steel  
 Nominal Pressure: PN40  
 Max. Working Temperature. : 180°C  
 Max, Working Pressure: 40BAR  
 Connection Type: Threaded  
 Available Standards: DIN999



## SPRING LOADED CHECK VALVE (NON RETURN)

Body Material: GS-C25 (WCB)  
 Disc Material: Stainless Steel  
 Nominal Pressure: PN16  
 Max. Working Temperature. : 180°C  
 Max, Working Pressure: 63BAR  
 Connection Type: Flanged  
 Available Standards: DIN2533  
 Available Sizes: DN15 – DN200



## SPRING LOADED CHECK VALVE (NON RETURN) WITH FILTER

Body Material: Brass  
 Disc Material: Brass  
 Filter Material: Stainless Steel  
 Nominal Pressure: PN16  
 Max. Working Temperature. : 120°C  
 Max, Working Pressure: 16BAR  
 Connection Type: Threaded  
 Available Standards: DIN259  
 Available Sizes: DN15 – DN150



## SPRING LOADED DISC CHECK VALVE

Body Material: Stainless Steel CF8  
 Disc Material: Stainless Steel CF8  
 Spring Material: Stainless Steel AISI 302  
 Nominal Pressure: PN40  
 Max. Working Temperature. : 300°C  
 Max, Working Pressure: 40BAR  
 Connection Type: FLANGED  
 Available Standards: DIN1092  
 Available Sizes: DN15 – DN150



## STRAINERS & LIFTER



FOOT VALVE

Body Material: GG40.3  
Gasket Material: EPDM  
Nominal Pressure: PN16  
Max. Working Temperature. : 90°C  
Max, Working Pressure: 16 BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Available Sizes: DN15 – DN400



Y STRAINER THREADED

Body Material: Brass  
Nominal Pressure: PN16  
Max. Working Temperature. : 120°C  
Max, Working Pressure: 16 BAR  
Connection Type: Threaded  
Available Standards: EN ISO 228-1  
Available Sizes: DN15 – DN50



Y STRAINER FLANGED

Body Material: GG25  
Filter Material: Stainless Steel  
Nominal Pressure: PN16  
Max. Working Temperature. : 300°C  
Max, Working Pressure: 16 BAR  
Connection Type: Flanged  
Available Standards: DIN2999  
Available Sizes: DN15 – DN400



IMPACT FREE DYNAMIC  
VACUUM LIFTER

Body Material: Ductile Iron GGG40.3  
Nominal Pressure: PN16/25  
Max. Working Temperature. : 70°C  
Max, Working Pressure: 16/25 BAR  
Connection Type: Flanged  
Available Standards: EN 1092-2  
Available Sizes: DN15 – DN200



DOUBLE BALL  
VACUUM LIFTER

Body Material: Ductile Iron GGG40.3  
Nominal Pressure: PN16/25  
Max. Working Temperature. : 70°C  
Max, Working Pressure: 16/25 BAR  
Connection Type: Flanged  
Available Standards: EN 1092-2  
Available Sizes: DN15 – DN250



SINGLE BALL  
VACUUM LIFTER

Body Material: Ductile Iron GGG40.3  
Nominal Pressure: PN16/25  
Max. Working Temperature. : 70°C  
Max, Working Pressure: 16/25 BAR  
Connection Type: Flanged  
Available Standards: EN 1092-2  
Available Sizes: DN15 – DN250



# PRESSURE REDUCING VALVES & SAFETY VALVES

## FLANGED PRESSURE REDUCING VALVE

OUTPUT PRESSURE: **0.2-1.2BAR**

Body Material: Ductile Iron GGG40.  
Nominal Pressure: PN16  
Max. Working Temperature. : 250°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Standards: DIN 2533  
Face to Face Size Standard: DIN 3202-F1  
Available Sizes: DN15 – DN100



## FLANGED PRESSURE REDUCING VALVE

OUTPUT PRESSURE: **0.8-2.5BAR**

Body Material: Ductile Iron GGG40.3  
Nominal Pressure: PN16  
Max. Working Temperature. : 250°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Standards: DIN 2533  
Face to Face Size Standard: DIN 3202-F1  
Available Sizes: DN15 – DN100



## FLANGED PRESSURE REDUCING VALVE

OUTPUT PRESSURE: **2-5BAR**

Body Material: Ductile Iron GGG40.3  
Nominal Pressure: PN16  
Max. Working Temperature. : 250°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Standards: DIN 2533  
Face to Face Size Standard: DIN 3202-F1  
Available Sizes: DN15 – DN100



## FLANGED PRESSURE REDUCING VALVE

OUTPUT PRESSURE: **4.5-10BAR**

Body Material: Ductile Iron GGG40.3  
Nominal Pressure: PN16  
Max. Working Temperature. : 250°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Standards: DIN 2533  
Face to Face Size Standard: DIN 3202-F1  
Available Sizes: DN15 – DN100



## THREADED PRESSURE REDUCING VALVE

OUTPUT PRESSURE: **0.14-1.7BAR**

Body Material: Forged Steel (1.0460)  
Max. Working Temperature. : 210°C  
Max, Working Pressure: 17BAR  
Connection Type: Threaded  
Available Standards: ISO 7-1/BS21  
Available Sizes: DN15 – DN25



## PRESSURE REDUCING VALVES & SAFETY VALVES



### THREADED PRESSURE REDUCING VALVE

OUTPUT PRESSURE: **1.40-4.0BAR**

Body Material: Steel (GS-C25)  
Max. Working Temperature. : 210°C  
Max, Working Pressure: 17BAR  
Connection Type: Threaded  
Available Standards: ISO 7-1/BS21  
Available Sizes: DN15 – DN25



### THREADED PRESSURE REDUCING VALVE

OUTPUT PRESSURE: **3.5-8.6BAR**

Body Material: Steel (GS-C25)  
Max. Working Temperature. : 210°C  
Max, Working Pressure: 17BAR  
Connection Type: Threaded  
Available Standards: ISO 7-1/BS21  
Available Sizes: DN15 – DN25



### FLANGED FULL LIFT SPRING LOADED SAFETY VALVE

OUTPUT PRESSURE: **16BAR**

Body Material: Ductile Iron GGG40.3  
Max. Working Temperature. : 225°C  
Max, Working Pressure: 17BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Face to Face Size Standard: DIN 3202-F32  
Available Sizes: DN15 – DN100



### FLANGED PROPORTIONAL SPRING LOADED SAFETY VALVE

OUTPUT PRESSURE: **17BAR**

Body Material: Ductile Iron GGG40.3  
Output Pressure: 16BAR  
Max. Working Temperature. : 225°C  
Max, Working Pressure: 17BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Face to Face Size Standard: DIN 3202-F32  
Available Sizes: DN15 – DN100



### FLANGED FULL LIFT WEIGHT LOADED SAFETY VALVE

OUTPUT PRESSURE: **16BAR**

Body Material: Ductile Iron GGG40.3  
Output Pressure: 16BAR  
Max. Working Temperature. : 225°C  
Max, Working Pressure: 17BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Face to Face Size Standard: DIN 3202-F32



### FLANGED PROPORTIONAL WEIGHT LOADED SAFETY VALVE

OUTPUT PRESSURE: **16BAR**

Body Material: Ductile Iron GGG40.3  
Max. Working Temperature. : 225°C  
Max, Working Pressure: 17BAR  
Connection Type: Flanged  
Available Standards: DIN2533  
Face to Face Size Standard: DIN 3202-F32  
Available Sizes: DN15 – DN100

# PRESSURE REDUCING VALVES & SAFETY VALVES

## SAFETY VALVE - FULL - THREADED



PRODUCT CODE	4593.2502 (d0:9mm)	4593.2512 (d0:13mm)	4593.2522 (d0:17,5mm)
NOMINAL PRESSURE	PN400	PN250	PN160
TYPE	CLOSED COVER	CLOSED COVER	CLOSED COVER
CONNECTIONS	THREADED / FLANGED (OPS.)	THREADED / FLANGED (OPS.)	THREADED / FLANGED (OPS.)
DIMENSIONS	1/2" - 1"	1/2" - 1"	3/4" - 1 1/2"
BODY MATERIAL	1.4104(430) -1.0619	1.4104(430) -1.0619	1.4104(430) -1.0619
WORKING TEMP. MAX.	300 °C	300 °C	300 °C
MAX. SET PRESSURE	250 BAR	200 BAR	100 BAR
CONNECTION STANDART	DIN ISO 228-1 / ASME B1.20.1	DIN ISO 228-1 / ASME B1.20.1	DIN ISO 228-1 / ASME B1.20.1
FACE TO FACE SIZE	DIN 3202-F32	DIN 3202-F32	DIN 3202-F32

## LESER SAFETY VALVE - PROPORTIONAL - THREADED



PRODUCT CODE	4373	4373H	4374	4374H
NOMINAL PRESSURE	PN250	PN400	PN250	PN400
TYPE	KAPALI KAPAK	KAPALI KAPAK	KAPALI KAPAK	KAPALI KAPAK
CONNECTIONS	THREADED / FLANGED (OPS)	THREADED / FLANGED (OPS)	THREADED / FLANGED (OPS)	THREADED / FLANGED (OPS)
DIMENSIONS	1/2" - 1"	1/2" - 1"	1/2" - 1"	1/2" - 1"
BODY MATERIAL	1.4104 (430F)	1.4104 (430F)	1.4404 (316L)	1.4404 (316L)
WORKING TEMP. MAX..	220 °C	220 °C	280 °C	280 °C
MAX. SET PRESSURE	93 BAR	365 BAR	68 BAR	330 BAR
CONNECTION STANDART	DIN ISO 228-1	DIN ISO 228-1	DIN ISO 228-1	DIN ISO 228-1
FACE TO FACE SIZE	DIN 3202-F32	DIN 3202-F32	DIN 3202-F32	DIN 3202-F32

## LESER CLEAN SERVIS, CRITICAL SERVIS



## LESER API, CHANGEVER, PILOT OPERATED, RUPTURE DISC





**HELIS®**  
HOSE-EXPANSION JOINT-LEVEL CONTROL-STEAM TRAP

**TÜRKİYE**

## TRAPS & SEPARATORS



**BALL FLOAT STEAM TRAP  
WITH AIR DISCHARGER**

Body Material: Stainless Steel CF8  
Disc Material: Stainless Steel CF8  
Spring Material: Stainless Steel AISI 302  
Nominal Pressure: PN40  
Max. Working Temperature. : 300°C  
Max, Working Pressure: 40BAR  
Connection Type: FLANGED  
Available Standards: DIN1092  
Available Sizes: DN15 – DN150



**BALL FLOAT STEAM TRAP  
WITH AIR DISCHARGER**

Body Material: GGG40.3  
Float Seat Material: Stainless Steel  
Float Seat Gasket Material: Stainless Steel  
Float Lever Material: Stainless Steel  
Nominal Pressure: PN16  
Max. Working Temperature. : 250°C  
Max, Working Pressure: 16BAR  
Connection Type: Threaded  
Available Sizes: DN15 – DN25



**THERMODYNAMIC  
STEAM TRAP**

Body Material: Carbon Steel C22.8  
Filter Material: Stainless Steel AISI 304  
Disc Material: Stainless Steel AISI 304  
Seat Material: Stainless Steel AISI 304  
Nominal Pressure: PN40  
Max. Working Temperature. : 400°C  
Max, Working Pressure: 16BAR  
Connection Type: FLANGED  
Available Sizes: DN15 – DN25



**THERMODYNAMIC  
STEAM TRAP**

Body Material: Carbon Steel C22.8  
Filter Material: Stainless Steel AISI 304  
Disc Material: Stainless Steel AISI 304  
Seat Material: Stainless Steel AISI 304  
Nominal Pressure: PN40  
Max. Working Temperature. : 400°C  
Max, Working Pressure: 16BAR  
Connection Type: Threaded  
Available Sizes: DN15 – DN25



**STAINLESS STEEL  
THERMODYNAMIC  
STEAM TRAP**

Body Material: Stainless Steel AISI 420  
Filter Material: Stainless Steel AISI 304  
Disc Material: Stainless Steel AISI 416  
Seat Material: Stainless Steel AISI 304  
Nominal Pressure: PN40  
Max. Working Temperature. : 400°C  
Max, Working Pressure: 16BAR  
Connection Type: FLANGED  
Available Sizes: DN15 – DN25



## TRAPS & SEPARATORS

### THERMOSTATIC STEAM TRAP

Body Material: Carbon Steel C22.8  
Capsule Material: Stainless Steel AISI 304  
Nominal Pressure: PN32  
Max. Working Temperature. : 400°C  
Max, Working Pressure: 32BAR  
Connection Type: FLANGED  
Available Sizes: DN15 – DN25



### THERMOSTATIC STEAM TRAP

Body Material: Carbon Steel C22.8  
Capsule Material: Stainless Steel AISI 304  
Nominal Pressure: PN32  
Max. Working Temperature. : 400°C  
Max, Working Pressure: 32BAR  
Connection Type: Threaded  
Available Sizes: DN15 – DN25



### STAINLESS STEEL THERMOSTATIC STEAM TRAP

Body Material: Stainless Steel AISI 420  
Filter Material: Stainless Steel AISI 304  
Seat Material: Stainless Steel AISI 304  
Nominal Pressure: PN40  
Max. Working Temperature. : 400°C  
Max, Working Pressure: 16BAR  
Connection Type: FLANGED  
Available Sizes: DN15 – DN25



### VACUUM BREAKER

Body Material: Stainless Steel AISI 304  
Filter Material: Stainless Steel AISI 304  
Valve Material: Stainless Steel AISI 304  
Valve Seat: Stainless Steel AISI 304  
Nominal Pressure: PN25  
Max. Working Temperature. : 400°C  
Max, Working Pressure: 25BAR  
Connection Type: Threaded  
Available Sizes: DN15 – DN25



### STEAM SEPARATOR

Body Material: Low Carbon Steel ST 37.2  
Nominal Pressure: PN16  
Max. Working Temperature. : 300°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Sizes: DN15 – DN200



## JOINTS



### THREADED RUBBER EXPANSION JOINT

Material: Synthetic Rubber  
Nominal Pressure: PN16  
Max. Working Temperature. : 90°C  
Max, Working Pressure: 16BAR  
Connection Type: Threaded  
Available Sizes: DN15 – DN50



### FLANGED RUBBER EXPANSION JOINT

Flange Material: Carbon Steel C22.8  
Rubber Material: EPDM/ NBR  
Wire Material: Carbon Steel C22.8  
Nominal Pressure: PN16  
Max. Working Temperature. : 90°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Sizes: DN15 – DN300



### THREADED STAINLESS STEEL FLEXIBLE JOINT

Flange Material: Stainless Steel AISI 304  
Sleeve Material: Stainless Steel AISI 304  
Nominal Pressure: PN16  
Max. Working Temperature. : 300°C  
Max, Working Pressure: 16BAR  
Connection Type: Threaded  
Available Sizes: DN15 – DN150



### FLANGED STAINLESS STEEL FLEXIBLE JOINT

Flange Material: Low Carbon Steel ST 37.2  
Sleeve Material: Stainless Steel AISI 304  
Nominal Pressure: PN16  
Max. Working Temperature. : 427°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Sizes: DN15 – DN300



### FLANGED STAINLESS STEEL FLEXIBLE JOINT WITH FLOATING FLANGE

Flange Material: Low Carbon Steel ST 37.2  
Sleeve Material: Stainless Steel AISI 304  
Nominal Pressure: PN16  
Max. Working Temperature. : 427°C  
Max, Working Pressure: 16BAR  
Connection Type: Flanged  
Available Sizes: DN15 – DN300

## PNEUMATIC & SOLENOID

### BOILER TYPE LEVEL SENSOR

INSTALLATION POSITION : VERTICAL - INSIDE BOILER OR BY-PASS TUBE

PROCESS CONNECTION : G 1"

WORKING PRESSURE : 32 BAR - 238°C



INSULATION : ALLUMINIUM WITH ELECTROSTATIC PAINT  
CONNECTION MATERIAL : 1.4571 STAINLESS STEEL  
ELECTRODE INSULATION : PTFE  
ELECTRODE MATERIAL : 1.4571 STAINLESS STEEL  
ELEKTRODE LENGTH : 500 - 1000 - 1500MM  
ELEKTRODE DIAMETER : 4MM  
CABLE : 5X0,75MM 2 SILICONE INSULATED  
CABLE INLET : 3 PCS PG 11 CHROME PLATED BRASS  
SUPPLY : 220-420 VAC  
ELEKTRODE VOLTAGE : 6V MAX.  
SENSITIVITY : 1US/CM MIN. OR 30US/CM MIN. OPTIONAL  
OUTPUT : VOLT-FREE CONTACTS  
RELAY : SCHRACK RY 2110124 OR EQUIVALENT  
RELAY DELAY : 3 SN  
AMBIENT TEMPERATURE : 70°C  
PROTECTION CLASS : IP 65

### HLC-90 Reflex Level Gauge

VALVE BODY : GG-25 CAST IRON

TRAY : ASTM A105

CONNECTION : DN20 PN16 FLANGED

DISCHARGE VALVE BODY: GG-25CAST IRON

MAX WORKING PRESSURE : 16 BAR

MAX. WORKING TEMPERATURE : 250°C



### HS-6 Level Switch Float Type

FLOAT : STAINLESS STEEL

OPPOSITE FLANGE : PN6-PN16 (S137,2 CARBON STEEL)

OPPOSITE FLANGE : PN6-PN16 (STAINLESS STEEL)

PRESSURE : PN10

FLANGE : S137.2





# SWITCHES



		Pressure switches					
Type	Standard	KP/KPI	BCP	RT	MBC	KPS	
Segments	Marine and railway equipment			✓	✓	✓	
	Industrial boilers and boiler room equipment	✓	✓	✓			
	Autoclaves and sterilisers	✓	✓	✓			
	Water pumps and air compressors	✓		✓			
	Hydraulic equipment	✓		✓	✓	✓	
	Windmills				✓	✓	
Characteristics	Setting range	-0.2 – 28 bar	0 – 40 bar	1 – 30 bar	-0.2 – 400 bar	0 – 60 bar	
	Contact system	SPDT	SPDT	SPDT	SPDT	SPDT	
	Electrical rating	AC-3	16 / 6 A, 400 V		4 A, 400 V		6 A, 400 V
		AC-15	10 / 4 A, 400 V	1 A, 250 V	3 A, 400 V	0.5 A, 250 V	4 A, 400 V
	Electrical connection	Screw terminals	DIN plug	Screw terminals	DIN plug	Screw terminals	
	Contact material	Silver or Gold	Gold	Silver or Gold	Silver	Gold	
	Differential	Adjustable	Adjustable	Adjustable	Fixed	Adjustable	
	Special approvals	Marine	TÜV	Marine, TÜV	Marine	Marine, UL	
	Degree of enclosure	IP30, IP44 or IP55	IP65	IP66 or IP54	IP65	IP67	
	Design	Box	Box industrial	Box industrial	Compact	Box heavy duty	
	Adjustable neutral zone			✓			



		Differential pressure switches			Temperature switches			
CAS	CS	MBC	CAS	RT	KP	RT	MBC	KPS
✓		✓	✓	✓			✓	✓
				✓	✓	✓		
				✓	✓	✓		
	✓	✓	✓	✓	✓	✓	✓	
✓		✓			✓		✓	
✓		✓			✓		✓	✓
0 – 60 bar	2 – 20 bar	0.3 – 5 bar	0.2 – 2.5 bar	0 – 11 bar	0 – 150 °C	-60 – 300 °C	-10 – 200 °C	-10 – 200 °C
SPDT	TPST and SPST	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT
	12 A, 400 V			4 A, 400 V	16 A, 400 V	4 A, 400 V		6 A, 400 V
0.1 A, 220 V		0.5 A, 250 V	0.1 A, 220 V	3 A, 400 V	10 A, 400 V	3 A, 400 V	0.5 A, 250 V	4 A, 400 V
Screw terminals	Screw terminals	DIN plug	Screw terminals	Screw terminals	Screw terminals	Screw terminals	DIN plug	Screw terminals
Silver	Silver	Silver	Silver	Silver or Gold	Silver	Silver or Gold	Silver	Gold
Fixed	Adjustable	Fixed	Fixed	Fixed	Adjustable	Adjustable	Fixed	Adjustable
Marine		Marine	Marine	Marine	Marine, UL	Marine	Marine	Marine, UL
IP67	IP43 or IP55	IP65	IP67	IP66	IP30, IP44 or IP55	IP66 or IP54	IP65	IP67
Box heavy duty	Box	Compact	Box heavy duty	Box industrial	Box	Box industrial	Compact	Box heavy duty
				✓		✓		

## Relief/Backpressure

### MR98 Series



<b>Body Size</b>	NPS 1/4, 1/2, 3/4, 1, 1-1/2 and 2 / DN 15, 20, 25, 40 and 50
<b>Relief Pressure Range</b>	2 to 375 psig / 0.14 to 25.9 bar
<b>Maximum Inlet Pressure</b>	400 psig / 27.6 bar
<b>Maximum Capacity</b>	206,000 SCFH / 5510 Nm <sup>3</sup> /h
<b>Operation Method</b>	Direct-Operated
<b>Body Material</b>	Cast Iron, Steel, Stainless Steel, Hastelloy® C and Monel®
<b>Bulletin No.</b>	71.4:MR98

The MR98 Series is used in a variety of process gas backpressure and relief applications including corrosive gases and cryogenic applications. The unit is available with a remote control line, differential pressure control and high-pressure optional constructions.

## Pressure Reducing

### T205 Series



<b>Body Size</b>	NPS 3/4 and 1 / DN 20 and 25
<b>Control Pressure Range</b>	1 in. w.c. to 7 psig / 2 mbar to 0.48 bar
<b>Maximum Inlet Pressure</b>	200 psig / 13.8 bar
<b>Maximum Capacity</b>	2468 SCFH / 346.2 Nm <sup>3</sup> /h
<b>Operation Method</b>	Direct-Operated
<b>Body Material</b>	Cast Iron, Steel and Stainless Steel
<b>Bulletin No.</b>	71.1:T205

The T205 Series is a compact regulator idea for accurate control of low-pressure systems. The unit is easy to install and maintain. For larger applications the Type Y692 is available in NPS 1-1/2 and 2 / DN 40 and 50 sizes



## Relief/Backpressure

### T208 Series



Body Size	NPS 3/4 and 1 / DN 20 and 25
Control Pressure Range	2 in. w.c. to 7 psig / 5 mbar to 0.48 bar
Maximum Inlet Pressure	75 psig / 5.2 bar
Maximum Capacity	2286 SCFH / 61.3 Nm <sup>3</sup> /h
Operation Method	Direct-Operated
Body Material	Cast Iron, Steel and Stainless Steel
Bulletin No.	74.2:T208

The T208 Series is ideal for relief or backpressure applications in small systems. The unit may also be utilized as a vapor recovery valve. A larger NPS 1-1/2 and 2 / DN 40 and 50 unit is available in the Type Y696.

## Vacuum Breaker

### T205VB Series



Body Size	NPS 3/4 and 1 / DN 20 and 25
Control Pressure Range	0 to 5 psig / 0 to 0.35 bar vacuum
Maximum Inlet Pressure	200 psig / 13.8 bar
Maximum Capacity	2468 SCFH / 66.1 Nm <sup>3</sup> /h
Operation Method	Direct-Operated
Body Material	Cast Iron, Steel and Stainless Steel
Bulletin No.	71.3:T205VB

The T205VB Series vacuum breaker provides accurate vacuum protection with its large diaphragm area. An external registration option is available for systems requiring a control line. The Y692VB Series is available for larger systems needing a NPS 1-1/2 or 2 / DN 40 or 50 unit. For Vacuum Regulator applications, the T208VR and Y696VR Series are available

## FUEL GAS

Natural gas (methane) is a clean-burning fuel gas used for many residential, commercial and industrial applications. This colorless, naturally occurring gas can be found in many countries around the world. For industrial applications, natural gas is used as a feedstock for making chemicals, such as anhydrous ammonia and as a fuel for boilers and furnaces.

- High speed response
- High-Capacity
- Flexibility
- Control Accuracy
- Easy Maintenance
- Safe Operation

### Pressure Reducing

#### Type 310A



<b>Body Size</b>	NPS 1, 2, 3, 4 and 4 x 6 / DN 25, 50, 80, 100 and 100 x 150
<b>Outlet Pressure Range</b>	10 to 700 psig / 0.69 to 48.3 bar
<b>Maximum Inlet Pressure</b>	1500 psig / 103 bar
<b>Maximum Capacity</b>	21,170,000 SCFH / 567,356 Nm <sup>3</sup> /h
<b>Operation Method</b>	Pilot-Operated
<b>Body Material</b>	WCC Steel
<b>Bulletin No.</b>	71.2:310A

The Type 310A pilot-operated high-pressure regulator is used where high-capacity, fast response and accurate control are essential. Typical applications include turbine startup and power plant fuel supply.

## Pressure Reducing

### Type EZR



<b>Body Size</b>	NPS 1, 1-1/4 x 1, 2 x 1, 2, 3, 4, 6 and 8 / DN 25, 32 x 25, 50 x 25, 50, 80, 100, 150 and 200
<b>Outlet Pressure Range</b>	6 in. w.c. to 1000 psig / 15 mbar to 69.0 bar
<b>Maximum Inlet Pressure</b>	1500 psig / 103 bar
<b>Maximum Capacity</b>	26,138,000 SCFH / 700,498 Nm <sup>3</sup> /h
<b>Operation Method</b>	Pilot-Operated
<b>Body Material</b>	Cast Iron and WCC or LCC Steel
<b>Bulletin No.</b>	71.2:EZR

The Type EZR pilot-operated, pressure reducing regulator is designed for natural gas transmission /distribution systems and industrial/commercial applications. The Type EZR provides smooth, quiet operation and tight shutoff.

## Pressure Reducing

### Y600A Series



<b>Body Size</b>	NPS 3/4 and 1 / DN 20 and 1
<b>Outlet Pressure Range</b>	4 in. w.c. to 7 psig / 10 mbar to 0.48 bar
<b>Maximum Inlet Pressure</b>	150 psig / 10.3 bar
<b>Maximum Capacity</b>	6660 SCFH / 178 Nm <sup>3</sup> /h of Natural Gas
<b>Operation Method</b>	Direct-Operated
<b>Body Material</b>	Cast Iron
<b>Bulletin No.</b>	71.1:Y600A

Y600A Series direct-operated, spring-loaded regulators provide economical pressure reducing control for a variety of residential, commercial and industrial applications. The large diaphragm area provides more accurate control at low-pressure settings. The pitot tube of regulators also creates a dynamic boost that helps provide greater capacity.

# PNEUMATIC & SOLENOID



PNEUMATIC ACTUATOR

Type : Double Acting  
TORC : 9 - 3.510 Nm / 10 - 1.342 Nm  
Body Metal : Aluminum  
Type : Single Acting / Double Acting  
Connection: ISO 5211



GAS SOLENOID VALVE

Normally Closed valve.  
(spring loaded valve disc, closed when de-energized).  
Non regulated ON/OFF.  
Opening/closing time: <1 sec.  
Maximum working frequency: 20 cycles/min.  
Wrench boss as well on inlet side as on outlet side for pipe fitting incorporated in the valve housing.  
2 auxiliary pressure taps with Rp 1/4" threaded connections, both on the inlet pressure side.  
Coil field replaceable.  
Coil suitable for permanent energization.  
Available Sizes: 1/2" to 4"



TWO-WAY  
TWO-POSITION VALVE

Pipe Tread: G1/4 (BSPP)  
Voltage: AC220V, AC110V, DC24V DC12V (Optional)  
Medium: Air (air must be filtered through a 40um filter)  
Type:3-way 2-position  
Pressure Range: 0.15--0.8 MPa  
Holding Pressure: 1.5 MPa  
Temperature Range: 5 - 50  
IP Rating: IP65



THREE-WAY  
TWO-POSITION VALVE

Pipe Tread: G1/4 (BSPP)  
Voltage: AC220V, AC110V, DC24V DC12V (Optional)  
Medium: Air (air must be filtered through a 40um filter)  
Type:3-way 2-position  
Pressure Range: 0.15--0.8 MPa  
Holding Pressure: 1.5 MPa  
Temperature Range: 5 - 50°C  
IP Rating: IP65



FOUR-WAY,  
TWO-POSITION VALVE

Pipe Tread: G1/4 (BSPP)  
Voltage: AC220V, AC110V, DC24V DC12V (Optional)  
Medium: Air (air must be filtered through a 40um filter)  
Type:3-way 2-position  
Pressure Range: 0.15--0.8 MPa  
Holding Pressure: 1.5 MPa  
Temperature Range: 5 - 50°C  
IP Rating: IP65

**FLOW INDICATOR  
LEVEL INDICATOR  
FLOW METER**



# FLOW INDICATORS, LEVEL INDICATORS & FLOW METERS



VERTICAL CONNECTION  
BOURDON TUBE PRESSURE  
GAUGE

Body Material: Stainless Steel  
Pressure Range : 0 – 100Bar  
Max. Working Temperature. : 200°C  
Connection Type: NPT Threaded  
Connection Size: 5/8" – 3/4"  
Dial Sizes: 2" to 10"  
Filling Type: Dry/ Oil Filled



HORIZONTAL CONNECTION  
BOURDON TUBE  
PRESSURE GAUGE

Body Material: Stainless Steel  
Pressure Range : 0 – 100Bar  
Max. Working Temperature. : 200°C  
Connection Type: NPT Threaded  
Connection Size: 5/8" – 3/4"  
Dial Sizes: 2" to 10"  
Filling Type: Dry/ Oil Filled



VACUUM GAUGE

Body Material: Stainless Steel  
Pressure Range : 0 – 100Bar  
Max. Working Temperature. : 200°C  
Connection Type: NPT Threaded  
Connection Size: 5/8" – 3/4"  
Dial Sizes: 2" to 10"  
Filling Type: Dry/ Oil Filled



TEMPERATURE GAUGE

Body Material: Stainless Steel  
Temperature Range : 0 – 300°C  
Max. Working Temperature. : 200°C  
Connection Type: NPT Threaded  
Connection Size: 5/8" – 3/4"  
Dial Sizes: 2" to 10"  
Filling Type: Dry/ Oil Filled



FLANGED SIGHT GLASS

Body Material: Low Carbon Steel ST 37.2  
Gasket Material: PTFE  
Temperature Range : -30°C – 250°C  
Max. Working Pressure. : 16Bar  
Available Sizes: DN25 – DN250  
Connection Type: Flanged

# FLOW INDICATORS, LEVEL INDICATORS & FLOW METERS

## THREADED ANALOG TURBINE WATER FLOW METER

Body Material: Ductile Iron GGG40.3  
Working Temperature : -10 – 120°C  
Max. Working Pressure. : 16Bar  
Connection Type: NPT Threaded  
Connection Size: 1/2" – 2"  
Connection Type: Threaded



## FLANGED ANALOG TURBINE WATER FLOW METER

Body Material: Ductile Iron GGG40.3  
Working Temperature : -10 – 120°C  
Max. Working Pressure. : 16Bar  
Available Sizes: DN25 – DN250  
Connection Type: Flanged



## FLANGED DIGITAL TURBINE WATER FLOW METER

Body Material: Stainless Steel  
Working Temperature : -10 – 250°C  
Max. Working Pressure. : 16Bar  
Available Sizes: DN50 – DN300  
Connection Type: Flanged



## VORTEX FLOW METER

Body Material: Stainless Steel  
Precision: %1.5  
Working Temperature : 250°C  
Max. Working Pressure. : 140Bar  
Available Sizes: DN50 – DN300  
Connection Type: Flanged





## STAINARC 309L-16

### Classifications:

AWS A5.4: E309L-16  
EN ISO 3581-A: E 23 12 L R 12  
EN ISO 3581-B: ES309L-16  
JIS Z3221: ES309L-16



## STAINARC 316L-16

### Classifications:

AWS A5.4: E316L-16  
EN ISO 3581-A: E 19 12 3 L R 12  
EN ISO 3581-B: ES316L-16  
JIS Z3221: ES316L-16



## KOBELCO LB52 (E7016)

AVAILABLE IN SIZE :  
2.6MM, 3.2MM, 4.0MM, 5.0MM.



## KOBELCO LB52-18 (E7018)

AVAILABLE IN SIZE :  
2.6MM, 3.2MM, 4.0MM, 5.0MM



## KOBELCO RB-26 (E6013)

AVAILABLE IN SIZE :  
2.6MM, 3.2MM, 4.0MM, 5.0MM



## KOBELCO LB-52U (E7016)

AVAILABLE IN SIZE :  
2.6MM, 3.2MM, 4.0MM, 5.0MM.



## KOBELCO NC-39L

AVAILABLE IN SIZE : 2.6MM (G-12),  
3.2MM (G-10), 4.0MM (G-8)  
Packing Size :  
20KG / PACK, 5KG / PACK



## KOBELCO NC-38L

AVAILABLE IN SIZE :  
2.6MM, 3.2MM, 4.0MM, 5.0MM.

## CHIYODA ER70S-6 CO2 MIG WIRE

AWS A5.18 : ER70S-6  
JIS Z3312 : YGW12  
EN ISO 14341-A : G 42 3 C G4Si1  
Wire Weight : 15kg/ 5kg



## LASER B 43



### Standards

TS EN ISO 2560-A	E 38 4 B 4 2 H5
EN ISO 2560-A	E 38 4 B 4 2 H5
AWS A5.1	E7016-1 H4

## LASER B 47



### Standards

TS EN ISO 2560-A	E 42 4 B 4 2 H5
EN ISO 2560-A	E 42 4 B 4 2 H5
AWS A5.1	E7018 H4

## LASER B 47



### Standards

TS EN ISO 2560-A	E 42 4 B 4 2 H5
EN ISO 2560-A	E 42 4 B 4 2 H5
AWS A5.1	E7018 H4

## ELNIKEL



### Standards

TS 9463 EN ISO 1071	E C Ni-CI 1
EN ISO 1071	E C Ni-CI 1
AWS A5.15	ENi-CI

## ELNIKEL-NC



### Standards

TS 9463 EN ISO 1071	E C Ni-CI 1
EN ISO 1071	E C Ni-CI 1
AWS A5.15	ENi-CI

## SG1



### Standards

TS EN ISO 14341-A	G2Si
EN ISO 14341-A	G2Si
TS EN ISO 636-A	W2Si
EN ISO 636-A	W2Si
AWS A5.18	ER 70 S-3

## ELOX SG 309 L



### Standards

TS EN ISO 14343-A	W 23 12 L
EN ISO 14343-A	W 23 12 L
AWS A5.9	ER 309 L

## ELOX SG 316 L Si



### Standards

TS EN ISO 14343-A	G Z 19 12 3 L Si
EN ISO 14343-A	G Z 19 12 3 L Si
AWS A5.9	ER 316 LSi

## ELOX R 309 L



### Standards

TS EN ISO 3581-A	E 23 12 L R 3 2
TS EN ISO 3581-A	E 23 12 L R 3 2
AWS A5.4	E309L-16

## ELOX R 316 L



### Standards

TS EN ISO 3581-A	E 19 12 3 L R 3 2
EN ISO 3581-A	E 19 12 3 L R 3 2
AWS A5.4	E316L-16

# FIRE SAFETY EQUIPMENTS



## UNILIFE FIRE SAFETY AND CONSULTANTS LTD.

Fighting equipment import, trading, supply  
installation, commission, consultancy





PRODUCTS OF MALAYSIA

LEADING THE FIGHT  
AGAINST FIRE



ISO 9001 CERTIFIED



# FIRE HOSE REEL



HRS061-MS-722-RD



HRS038-MS-722-FS



HRS056-MS-722-RD



HRS035-GI-019-RD

## FEATURES

- Side plates red epoxy powder finishing
- Automatic hose reel has integrated automatic stop valve which will open after 2 revolution of the reel
- Threaded Inlet connection
- Outlet connection for hose can be rotated for left and right direction
- Waterways made from non ferrous metals which ensure corrosion free\*
- Maximum working pressure 12bar, test pressure 18bar (EN671-1)
- Maximum working pressure 10bar, test pressure 17bar (AS1221)
- Side plates available in stainless steel

SRI fire hose reels are tested and approved to European Standard EN671-1 by British Standards Institution and to Australian Standards AS1221 by QAS Australia.

Code No.	Drum Size	Hose Diameter x Length	Depth of Hose Reel	Type
<b>SIRIM, SETSCO approved BS EN671-1*</b>				
HRS038-SS-022-RD	22"(559mm)	25mm x 30m	350mm	Swing Manual

Code No.	Drum Size	Hose Diameter x Length	Depth of Hose Reel	Type
<b>BSI approved to BS EN671-1*</b>				
HRS033-SS-022-RD	22"(559mm)	25mm x 30m	290mm	Swing Manual
HRS034-SS-022-RD	22"(559mm)	19mm x 30m	290mm	Swing Manual
HRS031-SS-022-RD	22"(559mm)	25mm x 30m	240mm	Fixed Manual
HRS032-SS-022-RD	22"(559mm)	19mm x 30m	240mm	Fixed Manual
HRS029-SS-022-RD	22"(559mm)	25mm x 30m	290mm	Swing Automatic
HRS030-SS-022-RD	22"(559mm)	19mm x 30m	290mm	Swing Automatic
HRS027-SS-022-RD	22"(559mm)	25mm x 30m	240mm	Fixed Automatic
HRS028-SS-022-RD	22"(559mm)	19mm x 30m	240mm	Fixed Automatic
<b>SAI-Global approved to AS / NZS 1221</b>				
HRS035-GI-019-RD	19"(483mm)	19mm x 36m	310mm	Fixed Manual
HRS037-GI-019-RD	19"(483mm)	19mm x 36m	350mm	Swing Manual
HRS154-MS-600-RD	23.6"(600mm)	19mm x 36m	210mm	Fixed Manual

Code No.	Drum Size	Hose Diameter x Length	Depth of Hose Reel	Type
HRS038-MS-022-RD	22"(559mm)	25mm x 30m	350mm	Swing Manual
HRS038-MS-722-RD	22"(559mm)	25mm x 30m	290mm	Swing Manual
HRS038-MS-019-RD	19"(483mm)	25mm x 30m	350mm	Swing Manual
HRS038-MS-722-FS	22"(559mm)	25mm x 30m	290mm	Swing Manual Flat Surface
HRS037-MS-019-RD	19"(483mm)	19mm x 30m	350mm	Swing Manual
HRS037-MS-022-RD	22"(559mm)	19mm x 30m	350mm	Swing Manual
HRS036-MS-022-RD	22"(559mm)	25mm x 30m	310mm	Fixed Manual
HRS036-MS-722-RD	22"(559mm)	25mm x 30m	240mm	Fixed Manual
HRS036-MS-019-RD	19"(483mm)	25mm x 30m	310mm	Fixed Manual
HRS035-MS-019-RD	19"(483mm)	19mm x 30m	310mm	Fixed Manual
HRS035-MS-022-RD	22"(559mm)	19mm x 30m	310mm	Fixed Manual
HRS061-MS-722-RD	22"(559mm)	25mm x 30m	290mm	Swing Automatic
HRS060-MS-719-RD	19"(483mm)	19mm x 30m	290mm	Swing Automatic
HRS056-MS-722-RD	22"(559mm)	25mm x 30m	240mm	Fixed Automatic
HRS055-MS-719-RD	19"(483mm)	19mm x 30m	240mm	Fixed Automatic



## FIRE HYDRANT VALVE BS 5041



### SPECIFICATION

Body	: Copper Alloy to BS 1982
Handwheel	: Grey Cast Iron to BS EN 1561
Inlet	: Flanged or BSP screw thread
Outlet	: Female instantaneous to BS 336 and other connections
Working Pressure	: 15 bar
Manufacture and certified to	: BS 5041 Part 1*
Nominal size	: DN65 2-1/2", DN50 2", DN80 3"

### STRAIGHT THROUGH VALVE

Code No.	Inlet Size
DRS107-GM-65BSP*	Male BSP Thread 65mm
DRS107-GM-65NST	Female Screw 65mm-NST
DRS108-GM-65ANSI	ANSI 150 FF Flange 65mm
DRS108-GM-65PN16*	BS 4504 PN16 65mm
DRS108-GM-65TE	BS 10 Table E Flange 65mm
DRS108-GM-UK80AB	ANSI 150 FF Flange 80mm

### RIGHT ANGLE VALVE

Code No.	Inlet Size
DRS105-GM-65BSP*	Male BSP Thread 65mm
DRS106-GM-65TE	BS 10 Table E Flange 65mm
DRS106-GM-65PN16	BS 4504 PN16 65mm
DRS106-GM-UK65AB	ANSI 150 FF Flange 65mm
DRS106-GM-UK80AB	ANSI 150 FF Flange 80mm

### BIB NOSE VALVE

Code No.	Inlet Size
DRS109-GM-UK65AB	ANSI 150 FF Flange 65mm
DRS109-GM-UKPN16*	BS4504 PN16 65mm
DRS109-GM-UK65MB*	Male BSP Thread 65mm
DRS109-GM-UKTE	BS10 Table E Flange 65mm
DRS109-GM-UK80AB	ANSI 150 FF Flange 80mm

### OBLIQUE VALVE

Code No.	Inlet Size
DRS097-GM-65BSP*	Male BSP Thread 65mm
DRS098-GM-65ANSI	ANSI 150 FF 65mm
DRS098-GM-65PN16*	BS 4504 PN16 Flange 65mm
DRS098-GM-80ANSI	ANSI 150 FF 80mm
DRS098-GM-65TE	BS 10 Table E Flange 65mm



### FEATURES

- Suitable for inlet pressure up to 20bar
- Reduced outlet static pressure can be set from 5 to 8bar
- Outlet pressure remain constant with inlet pressure range from 7bar to 20bar
- Pressure test to 30bar
- Minimum Flowrate up to 1400L/M

### PRESSURE REGULATING VALVE 'E' TYPE

Code No.	Inlet Size
WRS121-GM-65BSP*	Male BSP Thread 65mm
WRS120-GM-65TE	BS 10 Table E Flange 65mm
WRS120-GM-65ANSI	ANSI 150 Flange 65mm
WRS120-GM-65PN16*	BS 4504 PN16 65mm
WRS120-GM-80ANSI	ANSI 150 FF Flange 80mm

### OBLIQUE STANLEY PRESSURE REGULATING VALVE

Code No.	Inlet Size
WRS117-GM-65BSP	Male BSP Thread 65mm
WRS122-GM-65N16	PN 16 Flange 65mm



## DIVIDING & COLLECTING BREECHING



### CONTROLLED DIVIDING BREECHING

Material: Aluminium Alloy or Copper Alloy

Code No	MIS224-LA-065-NA
	MIS224-GM-065-NA
	MIS227-LA-065-NA
	MIS227-GM-065-NA

Note: Inlet and Outlet connection to BS 336 Instantaneous



### EUROPEAN DIVIDING BREECHING

Material: Aluminium Alloy

Code No	MIS 231-LA-065-EN
	MIS232-LA-065-EN



### 2 WAY COLLECTING INLET

Material: Aluminium Alloy or Copper Alloy

Code No	MIS014-LA-100-NA
	MIS014-GM-100-NA

Note: Inlet connection to BS 336 Instantaneous  
Outlet connection 4" Female Round Thread



### COLLECTING BREECHING

Material: Aluminium Alloy or Copper Alloy

Code No	MIS225-LA-065-NA
	MIS225-GM-065-NA

Note: Inlet and Outlet connection to BS 336 Instantaneous



### DIVIDING BREECHING

Material: Aluminium Alloy or Copper Alloy

Code No	MIS223-LA-065-NA
	MIS223-GM-065-NA

Note: Inlet and Outlet connection to BS 336 Instantaneous



### FIRE DEPARTMENT CONNECTION

Material: Copper Alloy or Brass

Code No	MIS271-GM-100-NA
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### 3 WAY SUCTION COLLECTING HEAD

Material: Copper Alloy

Code No.	Inlet	Outlet
MIS324-GM-100-RD	2-1/2 Male Instantaneous (Indian Standard) IS:904	4" Female Round Thread (Indian Standard) IS:902



## PORTABLE DRY POWDER FIRE EXTINGUISHER MS1539



Propellant	STORED PRESSURED TYPE ( NITROGEN )				
Code No.	FEX132-MS-010-RD	FEX132-MS-020-RD	FEX132-MS-040-RD	FEX132-MS-060-RD	FEX132-MS-090-RD
Capacity, Kg	1.0	2.0	4.0	6.0	9.0
Working Pressure, Bar (Psi)	12 (174)	14 (203)			
Test pressure, Bar (Psi)	25 ( 362.5 )				
Discharge time, sec	6-10	8-12	12-16	21-25	25-35
Overall height, mm	340.0	400.0	475.0		560.0
Cylinder diameter, mm	84.5	109.5	157.0		176.0
Overall weight, Kg	1.8	3.3	7.8	9.3	12.7
Body material	Cold Roll Steel				
Standard	Manufactured and approved to MS1539 Part 1				
Paint finish	Red				
Fire Rating	5A 21B	13A 55B	13A 70B	27A 144B	27A 144B
Carton box size, mm	110x125x345	130165x415	185x205x490		205x205x570
Type of extinguishant	ABC Powder				
Type of fire	A, B, C, E				

## PORTABLE CARBON DIOXIDE FIRE EXTINGUISHER MS1539



Selection and installation should be according to MS1539 Part 3.

Inspection and maintenance should be carried out according to MS1539 Part 4.

Body	FEX139-CS-020-RD	FEX139-CS-050-RD
Material	Carbon Steel	
Capacity, kg	2.0	5.0
Working pressure, Bar	70 Bar at 27°C	
Overall height, mm	530	770
Overall diameter, mm	113	140
Cylinder test pressure, Bar	250	
Discharge time, sec	8-12	9-12
Standard	Manufactured and approved to MS1539 Part 1	
Full weight, Kg	7.7	17.5
Paint finish	Red	
Fire Rating	21B	55B
Temperature range	-20°C to 60°C	
Discharge range	3 meter	
Carton size	180x195x665	230x230x715
Operating head	Brass	
Type of extinguishant	Carbon Dioxide	

## POWDER FILLING MACHINE



Code No	FEXPRF-SRIPRF
Weight	: 47kg
Dimension	: 700 x 460 x 1600 (H) mm
Power Requirement	: 230V, 50Hz, 0.8kW single phase

- Emptying and filling continuously
- Window at powder inlet for control of filling
- Adjustable height for 1kg to 12kg powder cylinder size
- Hopper material : Stainless steel
- Filter and hopper can be clean automatically
- Rubber wheel and Transportation handles
- Filling speed (approximately): 9kg - 90secs, 6kg - 65secs
- Suction speed: 18kg/min
- Optional filling head for mobile fire extinguisher 25kg, 50kg & 70kg
- Powder suction hose Ø 32 1.5m
- Suction pipe Ø20 800mm

## SLIM LINE HOSE REEL



Approved by:



The Slim Line Hose Reel is designed for installation in shopping centres where shop front space is at a premium. The assembly is designed to be fixed in cavity between the walls of adjacent shops thereby occupying the minimum shop front width.

Dimension	: 260mm (D) x 1700mm (Extended 2530mm) x 1980mm (H)
Installation	: Floor Mounting
Material for Rack	: Mild Steel
Material for Reel	: Mild Steel
Suitable for	: 20mm or 25mm Hose Reel

Code No	HRS011-MS-XXX-RD
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## HOSE REEL CABINET



### MODEL C SINGLE COMPARTMENT PIVOT TYPE HOSE REEL CABINET

#### TECHNICAL SPECIFICATION

Overall Dimension	740mm (W) x 790mm (H) x A (D)
Material	Mild Steel
Thickness	1.2mm Body, 1.5mm Door
Installation	Surface / Wall Mounted / Recessed
Capacity	Manual or Automatic Hose Reel Fixed Type 3/4" or 1" Hose up to 36m
Paint Finish	Epoxy Powder Red or White, minimum 70 micron.

Code No.	Dimension A (Depth) mm	Type
HRS004-MS-420-WH	420	Surface / Wall Mounted (19" Drum)
HRS004-MS-450-WH	450	Surface / Wall Mounted (22" Drum)
HRS001-MS-420-WH	420	Recessed (19" Drum)
HRS001-MS-450-WH	450	Recessed (22" Drum)



### MODEL D DOUBLE COMPARTMENT HOSE REEL CABINET

#### TECHNICAL SPECIFICATION

Overall Dimension	1050mm (W) x 800mm (H) x A (D)
Material	Mild Steel
Thickness	1.2mm
Installation	Surface Mounted / Recessed
Capacity	Manual or Automatic Swing Type Hose Reel 1" or 3/4", & 1 No Fire Extinguisher 9kg
Paint Finish	Epoxy Powder Red, minimum 70 micron.

Code No.	Dimension A (Depth) mm	Type
HRS003-MS-400-RD	400	Surface / Wall Mounted
HRS003-MS-320-RD	320	Surface / Wall Mounted
HRS003-MS-250-RD	250	Surface / Wall Mounted
HRS006-MS-400-RD	400	Recessed
HRS006-MS-320-RD	320	Recessed
HRS006-MS-250-RD	250	Recessed

\*Door with plastic opening upon request.



### MODEL E HOSE REEL CABINET

#### TECHNICAL SPECIFICATION

Overall Dimension	700mm (W) x 800mm (H) x A (D)
Material	Mild Steel
Thickness	1.2mm
Installation	Surface / Wall Mounted, Recessed
Capacity	Manual or Automatic Swing Type Hose Reel (22" or 19" Drum) 3/4" or 1"
Paint Finish	Epoxy Powder Red, minimum 70 micron.

Code No.	Dimension A (Depth) mm	Type
HRS047-MS-400-RD	400	Surface / Wall Mounted
HRS047-MS-320-RD	320	Surface / Wall Mounted
HRS047-MS-250-RD	250	Surface / Wall Mounted
HRS046-MS-400-RD	400	Recessed
HRS046-MS-320-RD	320	Recessed
HRS046-MS-250-RD	250	Recessed

Optional: • Electrolytic Galvanised (EG) or stainless steel material available on request.

## FOAM HOSE REEL



Foam hose reel is complete with a foam inductor used to supply mixture of foam concentrate and water. Foam solution is most effective for extinguisher fire involving flammable liquid such as petrol and solvents.

### FEATURES

- Inductor for 3% or 6% AFFF concentrate
- Flowrate 80L/m at 6bar inlet pressure
- Maximum working pressure 15bar
- Foam tank Stainless steel or Fiber glass 50L suitable for 15 mins. of operation
- Foam supply line can be close with valve for water application only
- Thickness of cabinet : Mild steel 1.2mm
- Dimension in mm : 740 (W) x 1200 (H) x 250 (D)
- Nozzle setting specific to Jet function

### APPLICATION

- Petrol stations
- Oil and solvent storage area

Code No	FOS088-MS-STD-RD
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## SLIM LINE HOSE REEL



The Slim Line hose reel is designed for installation in shopping centres where shop front space is at a premium. It is designed to be fixed in a cavity between the walls of adjacent shops thereby occupying the minimum shop front width.

Operation : Pull hose reel out of cabinet and swing hose reel to the desire direction for withdrawal of hose.

Suitable for 3/4" and 1" swing hose reel

Material : Mild Steel 1.5mm

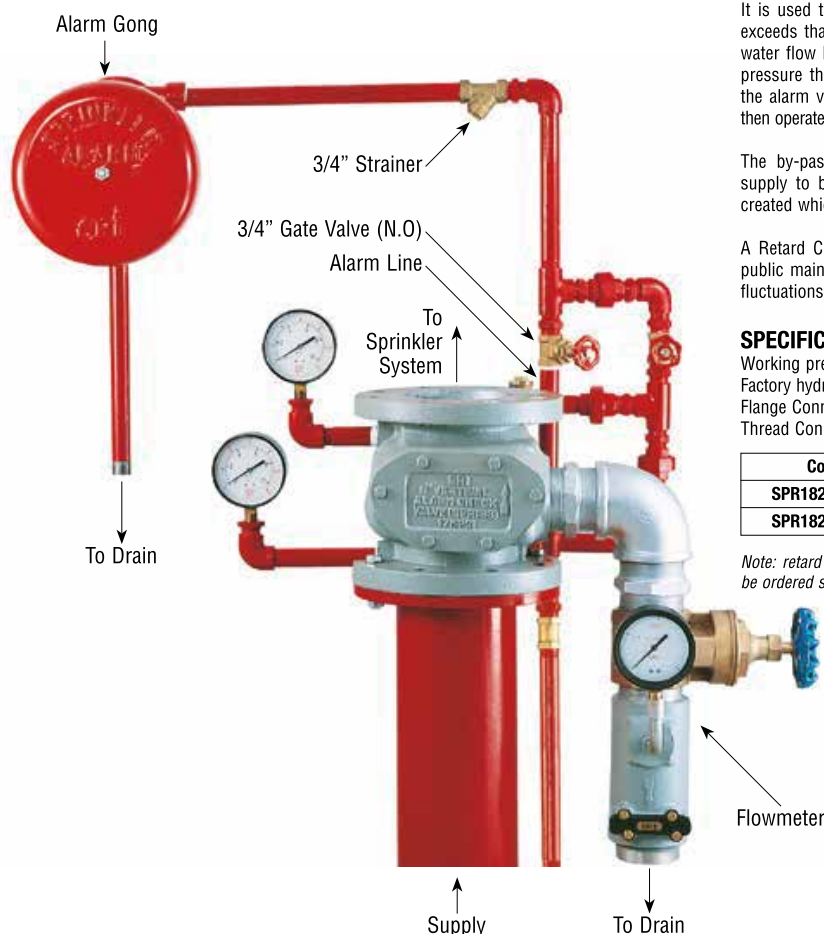
Installation : Recessed and wall mounted

Code No.	Dimension in mm
CAB430-MS-GER-RD	300 (W) x 1200 (H) x 740 (D)
CAB431-MS-GER-RD	340 (W) x 1240 (H) x 740 (D)

Optional: Electrolytic Galvanised (EG) or stainless steel material available on request.



## SPRINKLER ALARM VALVE



The alarm valve is an alarm device designed for installation in a sprinkler system. It is used to actuate a fire alarm when flow of water from the sprinkler system exceeds that of a single sprinkler. When a sprinkler is in operation, the resulting water flow lowers the pressure in the sprinkler system. The greater water supply pressure then causes the alarm valve clapper to open. The seat ring opening of the alarm valve allows the water to flow into the alarm line connection which will then operate the alarm gong.

The by-pass connection in the check valve allows pressure surges from the supply to by-pass the alarm valve clapper. An excess system pressure is thus created which steadies the clapper.

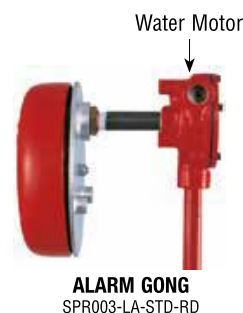
A Retard Chamber is used when the water supply pressure fluctuates, such as public main water supply. It is used to prevent false alarms caused by surges or fluctuations in pressure.

### SPECIFICATIONS

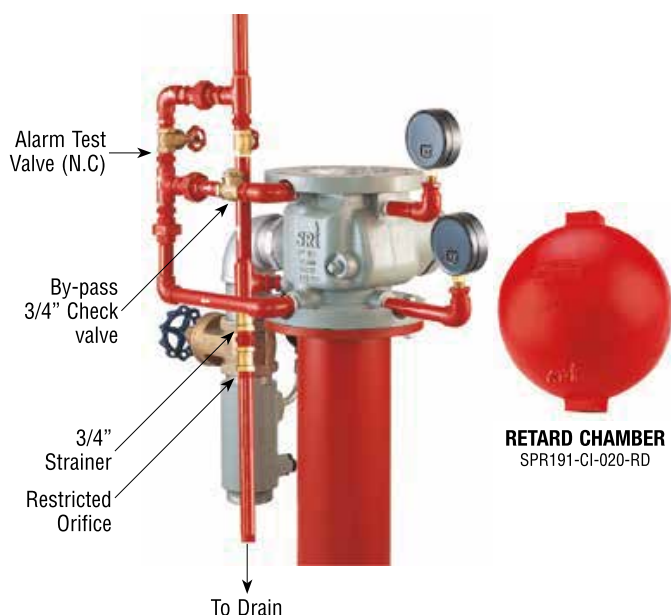
Working pressure	: 175Psi (12bar)
Factory hydrostatic test pressure	: 350Psi (24bar)
Flange Connections	: ANSI B16.1 125 FF Flange
Thread Connections	: BSP Thread

Code No.	Valve Size	Friction Loss
SPR182-CI-100-GY	4" (100mm)	5.0m (equivalent length)
SPR182-CI-150-GY	6" (150mm)	8.0m (equivalent length)

Note: retard chamber, trim parts, alarm gong and water motor and pressure switch to be ordered separately



**ALARM GONG**  
SPR003-LA-STD-RD



**RETARD CHAMBER**  
SPR191-CI-020-RD

### FLOWMETER

The sprinkler system flowmeter is designed to test the rate of flow available for coverage of various hazards.

### FLOWMETER APPLICATION:

Flowmeter can be used in wet and dry sprinkler Systems in all hazard groups, which complies to L.P.C.Codes.

Code No.		Description	Hazard Group Orifice Size (mm)
Flowmeter	Gauges		
SPR165-LA-XLH-GY	SPR158-XLH	XLH	21.0/18.5
SPR165-LA-OH1-GY	SPR158-OH1	OH1	31.0
SPR165-LA-OH2-GY	SPR158-OH2	OH2	40.0
SPR165-LA-OH3-GY	SPR158-OH3	OH3	45.0
SPR165-LA-OH3SGY	SPR158-OH3S	OH3 Special	50.0
SPR165-LA-XHH-GY	SPR158-XHH-10.0	XHH 10.0 mm/min	62.0
SPR165-LA-XHH-75	SPR158-XHH-07.5	XHH 7.5 mm/min	58.5

Note: The drain pipework down stream of the orifice plate must have a friction loss of less than 300 mb.

## SPRINKLER SYSTEM ACCESSORIES



### SINGLE LOW PRESSURE CONTROL FEATURES

Pressure range : 1 to 10 bar  
Differential pressure 1 to 3 bar  
Single-Pole Double Throw (SPDT) contacts  
Adjustment of range and differential can be done by turning the hexagonal screw

### APPLICATIONS

Pressure sensing of sprinkler system to provide automatic starting of sprinkler system pumps.

Code No	SPR266-P77-10-CH
	SPR266-CU-STD-CH

### AUTOMATIC SPRINKLERS FEATURES

- Type : Upright, Pendent, Horizontal Sidewall
- Category : Standard Response Quick Response
- Thread Size: 1/2" NPT
- Orifice Size : 5.6 (Factor K)
- Finishing : Chrome or Brass

### SPRINKLER TEMPERATURE

Classification	Temperatures	Bulb Colour
Ordinary	155° F / 68°C	Red
Intermediate	175° F / 79°C	Yellow
Intermediate	200° F / 93°C	Green



### PENDENT SPRINKLER HEAD

Code No.	Temperatures	Finishing
SPR-57-571-1-155	155° F / 68°C	Brass
SPR-57-571-9-155	155° F / 68°C	Chrome



### UPRIGHT SPRINKLER HEAD

Code No.	Temperatures	Finishing
SPR-57-570-9-155BR	155° F / 68°C	Brass
SPR-57-570-9-155	155° F / 68°C	Chrome



### HORIZONTAL SIDEWALL SPRINKLER HEAD

Code No.	Temperatures	Finishing
SPR-57-577-9-155BR	155° F / 68°C	Brass
SPR-57-577-9-155	155° F / 68°C	Chrome

\* Optional : Automatic Sprinklers with special features available upon request.



### FLOWSWITCH

Single-Pole Double Throw (SPDT) flow switch. To provide an electrical alarm signal when a flow in the sprinkler system occurs. Operation of flowswitch may be checked by opening the inspection test valve. Adjustable flow paddle, suitable for 1" to 6" pipe. 1" NPT thread connection for installation into screwed tee fitting.

Mounting : Vertical or horizontal

Code No	SPR265-F61KB-CH
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### SIGHT GLASS FLOW CONNECTION

This is used for visual checking of water flow and water filling of pipe at test point. To be installed in main drain lines and inspection test pipes. Working pressure : 175Psi  
Test pressure : 300Psi  
Connection : 1" BSP thread

Code No	SPR004-GM-025-VL
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### RECESSED SPRINKLER ROSETTE

Suitable for 1/2" sprinkler  
Adjustable rosettes  
Stainless steel available

Code No.	Material
SPR178-MS-015-CH	M.S Chrome
SPR178-MS-015-WH	M.S Epoxy White



### PLAIN SPRINKLER ROSETTE

Suitable for 1/2" sprinkler  
Stainless steel available

Code No.	Material
SPR173-MS-015-CH	M.S Chrome
SPR173-MS-015-WH	M.S Epoxy White



### SPRINKLER GUARD

To be used for area where sprinkler may be susceptible to be accidentally struck

Code No.	Material
SPR179-MS-015-CH	M.S Chrome



### SPRINKLER WRENCH

Used for installation of upright and pendent sprinklers

Code No.	Material
SPR177-MS-STD-BK	M.S. Epoxy Black

## FLOW CONTROL EQUIPMENT

### GATE VALVE



#### SPECIFICATION

- Non rising stem (handwheel or key operated) and O.S & Y
- Body, bonnet, disc and handwheel material: Cast Iron or Ductile Iron, Cast iron to BS EN 1561 GR.220, Ductile iron to BS EN 1563 450/10 = EN-GJS450-10 (EN-JS1040)
- Available in : 1) Resilient Seat for Non Rising Stem PN16 and O.S & Y  
2) Metal Seat for Non Rising Stem PN10
- Seat material : For Resilient Seat – EPDM/NBR O Rings  
For Metal Seat – Polyimide (Non-asbestos)
- Stem material : Stainless steel
- Gasket Material : EPDM/Rubber

#### PN10 (10BAR)

Manufactured to BS EN 1171

- Flange : BS 10 Table E
- Working pressure : 10bar, 145Psi (WOG)
- Body test pressure: 15bar
- Seat test pressure : 11bar

#### PN16 (16BAR)

Manufactured to BS 5163 & BS EN 1171

- Flange : BS 10 Table E
- Working pressure : 16bar, 232Psi (WOG)
- Body test pressure: 24bar
- Seat test pressure : 17.6bar

Size (mm)	Non Rising Stem PN10 & PN16		OS & Y Rising Stem PN16
	Key Operated	Handwheel Operated	Handwheel Operated
2-1/2" (65)	HYD073-DI65	HYD089-DI65	HYD092-DI65
3" (80)	HYD073-DI80	HYD089-DI80	HYD092-DI80
4" (100)	HYD073-DI100	HYD089-DI100	HYD092-DI100
6" (150)	HYD073-DI150	HYD089-DI150	HYD092-DI150
8" (200)	HYD073-DI200	HYD089-DI200	HYD092-DI200
10" (250)	HYD073-DI250	HYD089-DI250	HYD092-DI250
12" (300)	HYD073-DI300	HYD089-DI300	HYD092-DI300

Optional : Cast Iron material available on request.

UL/FM/CE Approved available on request.

### DUCTILE IRON GATE VALVE RESILIENT SEAT

#### SPECIFICATION

- Design and manufactured to BS 5163
- Disc material : Ductile Iron with EPDM/NBR vulcanization
- Suitable for water, sewage and neutral liquid (maximum temperature to 70°C)
- Face to face dimension to BS 5163
- Flange dimension BS 4504 PN16
- Body, bonnet : Ductile Iron to BS EN 1563 450/10 = EN-GJS450-10 (EN-JS1040)
- Working pressure : 16 bar
- Available in key or handwheel operated
- Pressure test on body : 24 bar
- Stem material : Stainless steel
- Pressure test on seat : 17 bar



Ductile Iron Gate Valve Resilient Seat	
Handwheel Operated	Key Operated
HYD093-DI65PN16	HYD073-DI65PN16
HYD093-DI80PN16	HYD073-DI80PN16
HYD093-DI100PN16	HYD073-DI100PN16
HYD093-DI150PN16	HYD073-DI150PN16
HYD093-DI200PN16	HYD073-DI200PN16
HYD093-DI250PN16	HYD073-DI250PN16
HYD093-DI300PN16	HYD073-DI300PN16

Optional : UL/FM/CE Approved available on request.

### Y-STRAINER

#### SPECIFICATION

- Body and Bonnet material: Cast Iron to BS EN 1561 GR.220 = EN-GJL-200 (EN-JL1030)
- Ductile Iron to BS EN 1563 450/10 = EN-GJS450-10 (EN-JS1040)
- Screen material: Stainless steel
- Flanged: BS10 Table E
- Working Pressure: 16 bar
- Test pressure: 20 bar
- Screen size: 2mm diameter



Size (mm)	Code No.	Type
1" (25)	MIS249-CI-25BSPT	Screw
2" (50)	MIS249-CI-50BSPT	Screw
2-1/2" (65)	MIS249-CI-65TE	Flange
3" (80)	MIS249-CI-80TE	Flange
4" (100)	MIS249-CI-100TE	Flange
6" (150)	MIS249-CI-150TE	Flange
8" (200)	MIS249-CI-200TE	Flange

Optional : Ductile Iron material available on request.

CE Approved available on request.



## FLOW CONTROL EQUIPMENT



**Lever Operated**  
\*\* complete with temper switch (SPR170-XX-XXX-XX) or micro switch (SPR170-TM-1703)

**Handwheel with monitor switch**

**Groove end with monitor switch**

**Electrical operated**

### BUTTERFLY VALVE

#### DESIGN FEATURES

- Manufactured to BS 593
- Epoxy paint internal and external
- Installation horizontal or vertical
- Working Pressure : 16 Bar
- Working Temperature : -20°C to +120°C
- Seat Test Pressure : 17.6 Bar
- Body Test Pressure : 24 Bar
- Service Fluids : Water, Oil or Gas
- Flanges : PN 16 or Table E
- Sealing ring : EPDM
- Body : Cast Iron BS EN 1561 GR.220=EN-GJL-200 (EN-JL1030)  
Ductile Iron to BS EN 1563 450/10 = EN-GIS450-10 (EN-HS1040)
- Shaft : Stainless steel

Size	Model No. Lever Operated	Model No. Handwheel Operated	Model No. Groove end	Model No. Electrical Operated
2-1/2" (65)	SPR169-CI-065-BL	SPR168-CI-065-BL	SPR166-CI-065-BL	SPR167-CI-065-BL
3" (80)	SPR169-CI-080-BL	SPR168-CI-080-BL	SPR166-CI-080-BL	SPR167-CI-080-BL
4" (100)	SPR169-CI-100-BL	SPR168-CI-100-BL	SPR166-CI-100-BL	SPR167-CI-100-BL
6" (150)	SPR169-CI-150-BL	SPR168-CI-150-BL	SPR166-CI-150-BL	SPR167-CI-150-BL
8" (200)	SPR169-CI-200-BL	SPR168-CI-200-BL	SPR166-CI-200-BL	SPR167-CI-200-BL
10" (250)	SPR169-CI-250-BL	SPR168-CI-250-BL	SPR166-CI-250-BL	SPR167-CI-250-BL
12" (300)	SPR169-CI-300-BL	SPR168-CI-300-BL	SPR166-CI-300-BL	SPR167-CI-300-BL

Optional: Ductile Iron available on request

### SWING CHECK VALVE

#### SPECIFICATION

- Design and manufactured to BS EN 12334
- Working pressure 16 bar
- Flange ends to BS EN 1092 PN16
- Test pressure 24 Bar
- Seat ring : Bronze
- Body : Cast Iron BS EN 1561 GR.220 = EN-GJL-200 (EN-JL1030)  
Ductile Iron to BS EN 1563 450/10 = EN-GIS450-10 (EN-HS1040)
- Hinge pin : Brass

Size (mm)	Model No.	Face to face (mm)
2-1/2" (65)	HYD096-CI-065PN16	216
3" (80)	HYD096-CI-080PN16	241
4" (100)	HYD096-CI-100PN16	292
6" (150)	HYD096-CI-150PN16	356
8" (200)	HYD096-CI-200PN16	495

Optional: Ductile Iron available on request

### SILENT CHECK VALVE

#### SPECIFICATION

- Prevents water hammer due to flow reversal, as valve will completely close before reversal of flow takes place.
- PN16 or Table E Flange connection
- Working Pressure : 16 Bar
- Seat Test Pressure : 17.6 Bar
- Body Test Pressure : 24 Bar
- Installation : Vertical
- Body : Cast Iron BS EN 1561 GR.220=EN-GJL-200 (EN-JL1030)  
Ductile Iron to BS EN 1563 450/10 = EN-GIS450-10 (EN-HS1040)

Size (mm)	Model No.	Face to face (mm)
2-1/2" (65)	HYD082-CI-65PN16	140
3" (80)	HYD082-CI-80PN16	152
4" (100)	HYD082-CI100PN16	184
6" (150)	HYD082-CI150PN16	248
8" (200)	HYD082-CI200PN16	318

Optional: Ductile Iron available on request

### WAFER CHECK VALVE

#### SPECIFICATION

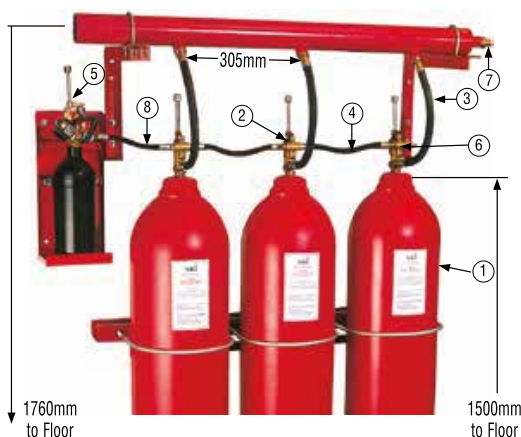
- Working Pressure: 16 Bar
- Factory pressure test: 24 Bar
- Body material: Cast iron BS EN 1561 GR.220  
Ductile Iron to BS EN 1563 450/10 = EN-GIS450-10 (EN-HS1040)
- Disc material: Ductile iron
- Seat: EPDM
- Suitable for BS 10, BS EN 1092 and ANSI 150 flange

Size (mm)	Code No.
2-1/2" (65)	SPR189-CI-065-BL
3" (80)	SPR189-CI-080-BL
4" (100)	SPR189-CI-100-BL
6" (150)	SPR189-CI-150-BL
8" (200)	SPR189-CI-200-BL

Optional: Ductile Iron available on request

## CO2 EXTINGUISHING SYSTEM

### CO2 SYSTEM SETUP TYPE A, WITH SOLENOID ACTUATED PILOT CYLINDER



Item	Part No.	Description
1	C02001-CS-450-KV	45Kg CO2 cylinder
2	C02023-BR-XXX-XX	CO2 K Valve
3	C02005-RB-015-BK	1/2" x 18" Discharge hose with Check valve
4	C02058-RB-300-BK	Pilot loop 1/4" x 300mm
5	C02054-CS-020-SP	Pilot cylinder with Solenoid valve 2.0kg
6	C02014-BR-003-NA	Vent bleed valve 1/8" BSP
7	C02069-BR-020-NA	Safety valve 3/4" BSP
8	C02058-RB-457-BK	Pilot loop 1/4" x 457mm

### CO2 SYSTEM SETUP TYPE B, WITH PYROCHARGE ACTUATION



Item	Part No.	Description
1	C02001-CS-450-KV	45Kg CO2 cylinder
2	C02023-BR-XXX-XX	CO2 K Valve
3	C02005-RB-015-BK	1/2" x 18" Discharge hose with Check valve
4	C02058-RB-300-BK	Pilot loop 1/4" x 300mm
5	C02058-RB-360-BK	Pilot loop 1/4" x 360mm
6	C02002-SF-1	Pyrocharge 24VDC
7	C02019-SH-015-ZP	Tee Connector
8	HYC245-GI-010-XX	Plug G1 3/8" BSP
9	C02014-BR-003-NA	Vent bleed valve 1/8" BSP
10	C02069-BR-020-NA	Safety valve 3/4" BSP

### WEIGHT MONITORING SYSTEMS



This device is used to automatically monitor the contents of the CO2 cylinder. When the CO2 gas falls the indicator on the device will show that it is empty and an optional Micro-switch can be installed to send a signal to the control panel. This is the most effective method of monitoring the CO2 gas in the cylinders.

Item	Part No.	Description
1	C02015-MS-XXX-NA	Weight Check Device
2	C02013-MS-SWI-NA	Monitor Switch
3	C02016-MS-XXX-NA	Hanging Bracket

## HFC 227ea/CO2 EXTINGUISHING SYSTEM COMPONENTS



### MANUAL PULL BOX (WITH MICROSWITCH)

Use for remote emergency manual operation.  
Mild steel painted Red Epoxy

#### INSTALLATION GUIDE

Steel cable attached at manual lever of pilot cylinder. Run all cable straight and use corner pulleys to change direction. Ensure cable is protected with conduit.

Code No	Description
CO2072-MS-LOC-RD	CO2 manual pull station



### SOUNDER

Operating Voltage : 24VDC

Code No	Description
FAS-4A-CS100 (2 Sounds)	
FAS-4A-Y04-24VDS (11 sounds)	
FAS-4A-24VDC-KP	



### FLASH ALARM BEACON LIGHT

Operating Voltage : 24VDC

Code No	Description
FAS-4A-V4-24VDC	
FAS-4A-24VDC-KPBS	



### MANUAL CALL POINT

Rating : 10 Amps @ 24VDC

Code No	Description
FAS221-SRI-24V	
FAS-221-KWPMAC-24V	



### KEY SWITCH

Rating : 2 Amps @ 24VDC

Code No	Description
FAS260-PS-28V-RD	
FAS260-MS-XXX-KP	



### 6" ALARM BELL

Operating Voltage : 24VDC

Code No	Description
FAS194-LA-150-RD	
FAS194-LA-150-KW	



### CONTROL PANELS

Main Power Requirement : 220 - 240VAC

Code No	ZONE
FAS002-NO-002-RD	2 ZONE
FAS002-NO-004-RD	4 ZONE
FAS002-NO-006-RD	6 ZONE
FAS002-NO-008-RD	8 ZONE
FAS002-NO-010-RD	10 ZONE
FAS002-NO-012-RD	12 ZONE



### MANUAL RELEASE / ABORT UNIT

Operating Voltage : 2 Amps @ 28VDC

Code No	Function
FAS258-AB-28V	With Abort Function
FAS258-NAB-28V	W/O Abort Function



### APOLLO S65 SMOKE AND HEAT DETECTOR & BASE

Operating Voltage : 17 - 28 Volts

Code No	Description
FAS-1B-55000-317 (Optical Smoke)	
FAS-1B-55000-122 (Heat Grade 1)	
FAS-1B-45681-200 (Base)	



### OPTICAL SMOKE DETECTOR

Operating Voltage : 17 - 28 Volts

Code No	Description
FAS-EA-318-2	



### HC RATE OF RISE HEAT DETECTOR

Operating Voltage : 24VDC

Code No	Description
FASHC-306A	



### BATTERY OPERATED SMOKE DETECTOR

Operated by : DC 9V Battery

Code No	Description
FAS192-SD728	



### DISCHARGE INDICATOR

Operating Voltage : 24 VDC

Code No	Description
FAS251-24VDC-WP	
FAS251-24VDC-DCO	



### EXIT SIGN

Supply Voltage : 240VDC

Code No	Description
FASKSB-15 (KELUAR)	
FASESB-15 (EXIT)	



### SMOKE TESTER

Code No	Description
FAS262-300S	



# FIRE ALARM & SPRINKLER PRODUCTS

**AUTHORIZED**



# ADDRESSABLE FIRE ALARM SYSTEM



Contact: +8802226637416 | [info@bvtechbd.com](mailto:info@bvtechbd.com)





# Matrix Addressable Fire Alarm System



## Analog Addressable Fire Alarm Control Panel

- UL Listed (Tenth Edition)
- 2 to 8 loop or 2 to 16 loop versions
- Single or Double Aperture (includes zone LED module & Printer)
- Modular and expandable electronics
- 4 programmable NACs; Class B or 2 Class A
- 7 inch, full-color resistive touch screen with intuitive user interface
- Power supply options (5.25A or 10.25A)
- Programmable (3) Inputs & (5) Relay Outputs
- Can be networked with programmable functionality
- Coincidence OR and AND operators in cause and effect
- Programming via USB or PC

The new Matrix product range fire alarm control equipment combines the very latest hardware & software to produce a control indication system, which is powerful & sophisticated, also simple to use and understand.

The 7" touch screen provides a clear, uncluttered and intuitive interface so the end user requires minimal training. Available in 4 slot and 8 slot variants, each slot supporting a 2 loop detection card, the Matrix fire control panel ranges from 2 to 16 detection loops. Network up to 127 panels, making it ideally to all buildings whether for a small system or large complex.

\*\* Download panel technical datasheet at LFIECO website to see panel model numbers for ordering information.

## Matrix Network Vision Annunciator

LF-MC00NC-10



- Robust, full color, 7" 800 x 480 touch screen graphical display
- Replicates information displayed at the panel
- Automatic display brightness adjustment
- Internal buzzer
- Connects via control panel network terminals
- Low current, 24V DC powered
- Enable key-switch
- Sheet steel enclosure
- Surface or semi-flush enclosure options available

The large, full color graphical display with touch screen functionality, delivers information on the status of the fire alarm system to single or multiple locations.

Matrix Vision Annunciator can be configured to offer full display and control to replicate the functionality of the Fire Control panel or to operate as a simple, display-only device for applications where access to control the Fire Alarm system would be inappropriate.



# X500 Addressable Fire Alarm System



## Fire Alarm Control Panel

LF0810-10 & LF0820-10

- UL 864 9th Edition listed
- 1 Loop (2nd Loop optional)
- Network capability of up to 64 panels
- 127 addressable points per SLC loop
- Configurable through keypad
- (3) Programmable Form C relay
- (2) programmable NAC
- Programmable function button
- (2) Auxiliary outputs, each rated 360mA @24vdc
- Powerful & versatile Cause & Effect
- Windows configuration Utility

LIFECO X500 fire alarm control panel uses microprocessor-based electronics to provide a flexible control system with high reliability and integrity.

Suitable for small and medium sites that require advance fire detection. X500 control panel can be expanded and networked to become part of much larger systems if the need arises, therefore providing a future-proof solution for any installation.

With its large graphical display and ergonomic button and indicator layout, the X500 control panel is simple and straightforward to understand for installers, commissioning engineers and end users alike.

## Serial Repeater

LF-1172-10



LIFECO Serial Repeater provides a simple and convenient method of extending the controls and indications of the X500 fire alarm control panel to other locations.

Housed in a small enclosure styled similarly to X500 control panel, the large graphic LCD and high brightness LED indicators duplicate the indications on the fire alarm control panel, up to 15 LF-1172-10 serial repeater can be connected on the X500 network via a simple, two-wire serial data connection.

## 16 Channel I/O Interface

LF-1171-00



Adding more I/O capability to the extensive options already offered by the X500 control panel, up to 32, 16 channel I/O boards may be connected.

All channels can contribute to, or respond to, system-wide cause and effects logic.

Used to add eNet interface card LF-1170-00

## eNet Network Interface Card

LF-1170-00



A high integrity network that is used to enhance X500 system. A simple 2-wire connection between each panel allows events to be transmitted to other parts of the system to provide control on a system wide basis. Up to 64 nodes can be programmed to respond in a variety of ways to any system events as required.







# Eagle Addressable Fire Alarm System



## Fire Alarm Control Panel

LE-FN-2127 & LE-FN-4127

- UL 864 9TH Edition Listed
- Multi-loop (2-4) analog-addressable
- 127 addressable points per SLC
- Large 8-line x 40-character LCD display (320 char.)
- Network capability of up to 64 panels with 500 network wide zones
- Powerful & versatile Cause & Effect programming
- Programmable sensitivity levels per device &
- Built-in help & alarm information
- Configurable through keypad
- Built-in RS-232 interface for programming via a PC and serial printer interface

The Eagle Series control panel is an analog addressable fire alarm panel containing 2 or 4 SLC loops, with each loop supporting 127 addressable devices combination of sensor & modules plus 127 analog sounder bases, for a total of 254 points possible per loop.

The system will support a variety of LIFCO devices: photo & heat sensors, which contain a unique, patented sensor design incorporating automatic drift compensation and day/night sensitivity mode. Additional devices include contact monitors, relay controllers, supervised auxiliary output and short circuit isolator modules. In addition, interfaces to conventional detection system can be established by using conventional zone-monitoring module.

## Serial LCD Annunciator

LE-FN-LCD-S



- Up to 15 serial annunciators may be connected to an Eagle Series control panel or network annunciator
- Large 8-line x 40-character LCD display (320 char.) allows viewing of system status
- Replicates all panel controls and indications
- Resides on the Eagle Series slave RS-485 line
- Powered by FACP Aux 24VDC or UL fire listed Aux. 24VDC supply
- Internal buzzer for event notification

The serial annunciator provides a convenient and cost effective remote annunciator solution. Up to 15 LE-FN-LCD-S annunciators can be connected to the slave RS-485 port of the Eagle Series control panel or network annunciator. The LE-FN-LCD-S's large 320 character display and navigation buttons are a complete mimic of the Eagle Series control panel display.

## LCD Network Annunciator

LE-FN-LCD-N



- 320 character liquid crystal display (8 line x 40 character)
- Up to (64) Eagle Series panels & FN-LCD-N's can be networked together in any combination
- Replicates all panel controls and indications
- Dual RS485 ports for primary fire network
- Powered by FACP Aux 24VDC or UL fire listed Aux. 24VDC supply
- Internal buzzer for event notification

The LCD network annunciator is designed to be used with the Eagle Series analog addressable system. It allows for remote access, monitoring, and control of the Eagle Series system throughout the building.

It is a true network annunciator that can access, monitor, and control any or all Eagle Series panels in the network and completely independent.

# Compatible SLC Devices for Matrix - X500 & Eagle Series



## Photoelectric Smoke Sensor

LE-ALN-V



The Photoelectric Smoke Sensor is suited to detecting optically dense smoke typical of fires involving materials such as soft furnishings, plastic, foam, or other similar materials, which tend to smolder and produce large visible smoke particles.

## Fixed Temp/Rate of Rise Heat

LE-ATJ-EA



The Fixed Temperature/Rate-of-Rise sensors provide accurate temperature measurement data to the fire alarm control panel. These sensors are well-suited for environments where dust, cooking fumes, or other factors make the use of smoke sensors impractical.

## Multi-Criteria Sensor

LE-ACC-V



The Smoke & Heat Multi-Criteria Sensor is particularly suited for detecting smoke produced by a wide range of combustibles found in various applications. Temperature monitoring is achieved by a thermistor placed for optimum sensitivity.

## Multi-Criteria Sensor

LE-ACD-V



The CO, COHb, Smoke, & Heat Multi-Criteria Sensor is particularly suited for detecting smoke produced by a wide range of combustibles found in various applications. Temperature monitoring is achieved by a thermistor placed for optimum sensitivity. The sensor is also suited for detecting deadly levels of CO.

\*\*Matrix & X500 Compatible

## 6" Analog Sounder Base

LE-ASB



LE-ASB is designed to use with Analog Sensors. Each base is connected to a DCP SLC, it provides an audible alarm in the immediate vicinity. Configurable and programmable.

## Analog Sensor Bases

LE-YBN-NSA-4 /  
LE-HSB-NSA-6



The sensor mounting base allows for complete compatibility to use with analog sensors, this common mounting bases are electronics free and contain a simple rugged design with screw terminals for wiring connections and anti-tamper head locking system.

## Analog Duct Sensors

LE-DH-99-A /  
LE-DH-99-AR



Detects and controls the spread of smoke throughout the building HVAC ducts in Commercial, Industrial and Residential applications. LE-DH-99AR version contains 2 sets of form "C" contacts rated @10A.

## Addressable Manual Pull Stations

LE-DCP-AMS /  
LE-DCP-AMS-LP



LE-DCP-AMS are the LIFECO series of addressable manual pull stations that provide a fast and practical means of manually initiating a fire alarm signal. Both single action and dual action manual pull stations are available.



## Conventional Devices for Matrix - X500 & Eagle Series

### Photoelectric Smoke Detector

LE-SOC-24V



LE-SOC-24V detector is a computer designed non-direction smoke chamber, utilizes an infrared LED light source and silicon photo diode receiving element in the smoke chamber. Two bicolored LED's for indication of status.

### Multi-Criteria Sensor

LE-SLR-835BH



Multi-Criteria Sensor is a combination of photoelectric smoke detector and 135F° fixed temp heat sensor (latching). Non-directional smoke chamber design, heat sensor is protected by a built-in guard and a vandal resistant security locking feature.

### Fixed Temp/Rate of Rise Heat Detector

LE-DCD-135/190



Choice of fixed temperature/rate of rise 135F° or 190F° heat detector. It is suited to detect presence of slow or fast rising temperature due to burning combustibles, if heat rises greater than 12°/minute detector will alarm.

### Fixed Temperature Heat Detector

LE-DFE-135/190



Choice of fixed temperature 135F° or 190F° heat detector. It is suited for installation where high heat output fires are expected or in areas where ambient conditions would not allow use of other detection methods. Use LE-HSC-220 compatible detector base.

### Conventional Fire Alarm Bell

LFB16, LFB18 & LFB110



Alarm bell is a low power consumption & a micro-processor base design with high dBA sound output, available in 6", 8" & 10" housing. Quickly and easily to installed. (optional WP back-box for outdoor application)

### Sounder

LF-1010XXX



Suitable for conventional sounder circuits, notification alarm circuits and 2-Wire alarm systems. Can be flush mounted using standard electrical single gang back-box and surface mounted with the default backbox.

### Sounder with Beacon

LF-1110XXX



Used as an ancillary visual alarm in fire systems; It is suitable for conventional and 2-wire fire systems as well for general alarm and signalling systems. It is designed to fit any recessed single gang box, giving a flush finish or surface mounted with the default back box.

# CONVENTIONAL FIRE ALARM SYSTEM



# Conventional Fire Alarm System



## Control Panel

Eagle 1/2/4/6/8/12/16

The Panels are solid state circuiting and is designed perfect solution to any conventional system requirement for industrial and commercial application. With its architecture providing 1 to 16 fixed zones, the system can installed ranging from small building to large constructions. Supports up to 32 detectors per zone & unlimited number of call points.

## Photoelectric Smoke Detector

LF-PE-4211



Smoke detector uses a specialized smoke chamber design sensing the presence of smoke particles produced by fast combustion or slow smoldering fire detector, effectively sense both white & black smoke with virtually no false alarm.

## Conventional Fire Alarm Bell

LFB16, LFB18 & LFB110



Alarm bell is a low power consumption & a micro-processor base design with high dBA sound output, available in 6", 8" & 10" housing. Quickly and easily to installed. (optional WP back-box for outdoor application)

## Heat Detector

LF-HD-4212



Heat detector identifies fire with both rapidly rising and gradually increasing temperature. Utilizes a modern, accurate, state of the art negative temperature coefficient (NTC) thermistor that senses thermal changes in the protected area.

## Sounder

LF-1010XXX



Suitable for conventional sounder circuits, notification alarm circuits and 2-Wire alarm systems. Can be flush mounted using standard electrical single gang back-box and surface mounted with the default backbox.

## Manual Call point

MCP50



Manual Call point esigned to work in conventional fire alarm systems. The call point has a resettable fragile working element to ensure reliable and safe operation. The LED indication informs the user for fire and test events.

## Sounder with Beacon

LF-1110XXX



Used as an ancillary visual alarm in fire systems; It is suitable for conventional and 2-wire fire systems as well for general alarm and signalling systems. It is designed to fit any recessed single gang box, giving a flush finish or surface mounted with the default back box.



# EXTINGUISHANT RELEASING SYSTEM







# Extinguishant Releasing System



Early warning fire extinguishant system and detection technology can detect a fire and automatically release a fire suppression agent to eliminate fire. Stopping the fire can reduce damage or avoid damage to equipment assets and subsequent loss of operational productivity.

LIFECO Hawk provides control and indication for a single-area extinguishing releasing system, enabling targeted extinguishing that limits damage and reduces costs.

# Emergency & Exit Lights



## Emergency Light

LF-LED-600A

- Self-contained
- Operation Mode – Non maintained
- Input Voltage - AC120 –347 V (50Hz/60Hz)
- Input Power – 1.5W
- Battery - SC 3.6V/1800mAH(Ni-Cd)
- Lamp - 24pcs SMD 2835
- Classification of Luminaires – Class II
- Emergency Lumen > 180LM
- Charge Time – 24 Hours
- Emergency Duration – 3 Hours
- Degree of Protection – IP20
- Operating Temperature – 0°C – 40°C
- Housing – Flame Retardant ABS
- Dimension - L267×W59×H90MM
- Wall mounting type



## Twin-heads Emergency Light

LF-LED-600B

- Self-contained
- Operation Mode – Non maintained
- Input Voltage - AC120 –347 V (50Hz/60Hz)
- Input Power – 1.5W
- Battery - SC 3.6V/1800mAH(Ni-Cd)
- Lamp - 24pcs SMD 2835
- Classification of Luminaires – Class II
- Emergency Lumen > 180LM
- Charge Time – 24 Hours
- Emergency Duration – 1.5 Hours
- Degree of Protection – IP20
- Operating Temperature – 0°C – 40°C
- Housing – Flame Retardant ABS
- Dimension - L365×W109×H85MM
- Wall mounting type

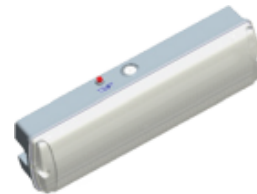


## Emergency Light/Exit Light

LF-LED-500C

- Self-contained
- Operation Mode – Maintained/Non-maintained
- Input Voltage - AC120V-277V (50Hz/60Hz)
- Input Power – 5W
- Battery - Ni-Cd SC3.6V 1.5Ah
- Lamp - 27pcs SMD 2835/0.2W
- Emergency Lumen > 150LM
- Charge Time – 24 Hours
- Emergency Duration – 3 Hours
- Degree of Protection – IP65
- Operating Temperature – 0°C – 40°C
- Housing/Cover – PC
- Dimension - 352×110×68MM
- Wall/Ceiling mounting type

\*\*Available optional self-adhesive legend kit to create an exit sign, check photo for reference.



## Emergency Light

LF-LED-500F

- Self-contained
- Operation Mode – Maintained/Non-maintained
- Input Voltage - AC120V-277V (50Hz/60Hz)
- Input Power – 5W
- Battery - Ni-Cd SC3.6V 1.5Ah
- Lamp - 27pcs SMD 2835/0.2W
- Emergency Lumen > 150LM
- Charge Time – 24 Hours
- Emergency Duration – 3 Hours
- Degree of Protection – IP65
- Operating Temperature – 0°C – 40°C
- Housing/Cover – PC
- Dimension - 352×110×68MM
- Wall/Ceiling mounting type



# Fire Sprinkler System



## Test & Drain Valve

LF-TDV/25/32/38/50

- Female NPT inlet and outlet
- Threaded to BS21 or ANSI B1.20.1
- BRASS ASTM C85700
- Working pressure 175PSI
- Cast brass valve



## Flexible Sprinkler Hose

Braided & Unbraided

- Braided flexible sprinkler hose with fittings : LPB-B & LPB-D
- Unbraided flexible sprinkler hose with fittings : LPN-A & LPN-C

Can be installed quickly without large and expensive tools. Ideal applications include offices, schools, libraries, hospitals, and shopping complexes. Available product length: 700, 1000, 1200, 1500, 1800mm

## Universal Sprinkler Wrench

LF-SW-01



Used for installing LIFECO sprinklers; Upright, Horizontal Sidewall, Pendent, Clean-room type and Flush type sprinkler head.

## Sprinkler Wrench Head

LF-SW-02



LIFECO Sprinkler wrench head is designed to speed and ease concealed sprinkler heads installation and removal. For LF820 & LF821

**\*\* For use in concealed sprinklers**

## Sprinkler Cabinet

LF-SC-01



Made from 1mm to 2mm mild steel or stainless steel and are available in brushed, hair line and mirror finish. Available in different sizes which allows storage of 6, 12, 24 & 36 sprinklers along with appropriate size wrench and tools.

## Air Release Valve

LWR104

- Sizes: 3/4" & 1"



This valve is used as a backup just in case the water pressure or flow is not as required due to certain situations. Tested under the pressure of 350 psi.

## Sprinkler Guard

LF-SW-01



LIFECO Sprinkler Guard are hard-wire cages designed to encase the sprinklers and protect them from mechanical damage.

## Fire Valves, & Accessories



LIFECO has a vast selection of Fire protection valves that includes; Alarm Check Valve, Deluge Valve, Butterfly valve, Gate valve (NRS and OS&Y), Check valve, in addition to that the range also have Indicator posts, Strainers and Wet/Dry Hydrants.

LIFECO Fire Fighting Valves System are built to high-quality standard and holds approval by UL (Underwriters laboratories) and have FM (Factory Mutual) approval, where applicable.





## OS& Y Gate Valve

### Flanged Ends

3299-300-FLF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- NPT plug on body
- 300 PSI Working pressure
- -10°C to 82°C Working temperature
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

### Grooved Ends

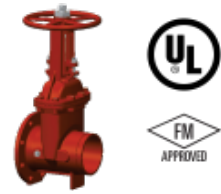
3299-300-GLF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- NPT plug on body
- 300PSI Working pressure
- -10°C to 82°C Working temperature
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

### Flanged x Grooved Ends

3299-300-FXGLF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- NPT plug on body
- 300PSI Working pressure
- -10°C to 82°C Working temperature
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

### Flanged x Mechanical Joints

3199-250-FXMJF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- 250PSI Working pressure
- -10°C to 120°C Working temperature
- Ductile Iron Body
- Sizes: 14", 16" & 18"

### Flanged Ends

3199-250-FLF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- Flanged to ANSI B16. 1 Class125
- 250PSI Working pressure
- Ductile Iron Body
- Sizes: 14", 16" & 18"

### Mechanical Joint Ends

3199-250-MJLF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- Mechanical joint designed to ANSI B16. 1 Class125
- 250PSI Working pressure
- Ductile Iron Body
- Sizes: 14", 16" & 18"

### Mechanical Joint Ends

3199-200-MJLF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- NPT plug on body
- 200PSI Working pressure
- -10°C to 120°C Working temperature
- Sizes: 20" & 24"

### Flanged Ends

3199-200-FLF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- NPT plug on body
- 200PSI Working pressure
- -10°C to 120°C Working temperature
- Sizes: 20" & 24"

### Flanged x Mechanical Joints

3199-200-FXMJF



- Complies with AWWA C515 Standard
- High quality graphite stem seal
- 200PSI Working pressure
- -10°C to 120°C Working temperature
- Ductile Iron Body
- Sizes: 20" & 24"



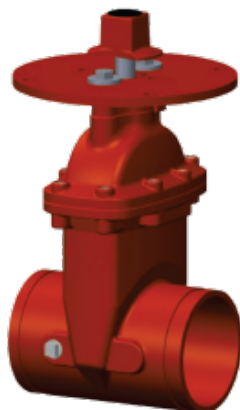
# NRS Gate Valve



## Flanged Ends

3288-300-FLF

- Complies with AWWA C515 Standard
- NPT plug on body
- Flanges to ANSI B16.1 Class125
- 300 PSI Working pressure
- -10°C to 120°C Working temperature
- Ductile Iron Body
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"



## Grooved Ends

3288-300-GLF

- Complies with AWWA C515 Standard
- NPT plug on body
- Grooved end to AWWA C606 standard or metric dimensions
- 300PSI Working pressure
- -10°C to 120°C Working temperature
- Ductile Iron Body
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

## Mechanical Joint Ends

3288-300-MJLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 300PSI Working pressure
- Ductile Iron Body
- Sizes: 3", 4", 6", 8", 10" & 12" - UL Listed
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12" - FM Approved

## Flanged x Grooved Ends

3288-300-FXGLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 300PSI Working pressure
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 2.5", 3" - UL Listed
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12" - FM Approved

## Flanged x Mechanical Joint Ends

3288-300-FXMJLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 300PSI Working pressure
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 3", 4", 6", 8", 10" & 12" - UL Listed
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12" - FM Approved

## Flanged Ends

3188-200-FLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 200 PSI Working pressure
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 20" & 24"





## NRS Gate Valves & Butterfly Valves

### Flanged Ends

3188-250-FLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 250 PSI Working Pressure
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 14", 16" & 18"

### Mechanical Joint Ends

3188-200-MJLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 200 PSI (250 PSI Available upon request)
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 20" & 24"

### Mechanical Joint Ends

3188-250-MJLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 250 PSI Working pressure
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 14", 16" & 18"

### Flanged x Mechanical Joint Ends

3188-200-FXMJLF



- Complies with AWWA C515 Standard
- NPT plug on body
- 200 PSI Working pressure
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 20" & 24"

### Flanged x Mechanical Joint Ends

3188-250-FXMJF



- Complies with AWWA C515 Standard
- NPT plug on body
- 250 PSI Working pressure
- -10°C to 82°C Working temperature
- Ductile Iron Body
- Sizes: 14", 16" & 18"

### Wafer Type - Gear Operated | Butterfly Valve

2305-300-LF



- Vulcanized seat design for bubble-tight shutoff at 300PSI
- Low torque operation, high cycle life
- With built in supervisory switch
- Sizes: 2", 2.5", 3", 4", 5", 6", 8", 10" & 12"
- FM Approved for 2" - 6"

### Grooved Type - Gear Operated | Butterfly Valve

2905-300-LF

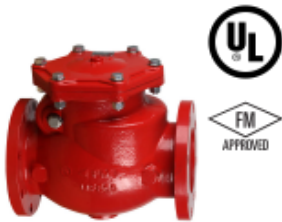


- Flag type position indicator
- Low torque operation, high cycle life
- With built in supervisory switch
- UL Listed for size 2" - 12"
- FM Approved for 2" - 6"

# Check Valves & Strainers

## Swing Type - Flanged Ends

5201-300-FLF



- Complies with AWWA C508 standard, Clear waterway design
- Seating type is resilient material to bronze seat construction
- 300PSI Working pressure
- Sizes: 2", 2.5", 3", 4", 5", 6", 8", 10" & 12"

## Strainer - Flanged Ends

6201-175-FLF



- NPT or BSPT blowoff outlet on cover. Blowoff outlets are finished with plugs
- 175PSI Working pressure
- -10°C to 120°C Working temperature
- Flanges to ANSI B16. 1 Class125 (other flange type available upon request)
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

## Swing Type - Grooved Ends

5905-300-GLF



- Ductile iron disc EPDM encapsulated
- 300PSI Working pressure
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12" - UL Listed
- Sizes: 2", 2.5", 3", 4", 5", 6", 8", 10" & 12" - FM Approved

## Strainer - Grooved Ends

6201-175-GLF



- NPT or BSPT blowoff outlet on cover. Blowoff outlets are finished with plugs
- 175PSI Working pressure
- -10°C to 120°C Working temperature
- Groove dimension comply with Metric or AWWA C606 standard.
- Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

## Wafer Check Valve

5211-175-FLF



- Soft seated for perfect tightness even at low differential pressure
- Flange to ANSI B16.1 Class 125
- 175PSI Working pressure
- Sizes: 4", 6", 8", 10" & 12"

## Strainer - Basket Type

6301-200-FLF



- Screens are perforated 304 stainless steel with spot welded seam
- -10°C to 82°C Working temperature
- Flanges to ANSI B16. 1 Class125
- 200PSI Working Pressure
- Sizes: 3", 4", 5", 6", 8", 10" & 12"



## Indicator Post



### Vertical Type Indicator Post

LF-IP888

- Indicates if the valve is in the OPEN or SHUT position
- Built in Gear drive reduces the torque necessary to open and shut large valve
- The adjustable dimension "L" is 34.5" to suit deeper buried valves. If more adjustments is required, specify at time of order
- OPEN and SHUT targets can be easily adjusted to fit exactly in the viewing window



### Wall Type Indicator Post

LF-WP999

- Indicates if the valve is in the OPEN or SHUT position.
- Used to operate a valve installed behind a wall
- With a 12" O.D. post flange to mount on a wall
- Operated by handwheel
- Can be supplied in open left or open right
- Internally and externally red epoxy spray painting

## Fire Department Connection

### Fire Department Connection

LF-FDCG & LF-FDCI



We have two models, one is a straight type model LF-FDCG and a 90° type model LF-FDCI which casted from solid brass alloy to extend its service life. Size: 2.5" x 2.5" x 4"

# Zone Control Valve & Valve Accessories



## Zone Control Valve - Complete Set

LF-ZCV

Zone control valves are designed to operate utilizing electrical service for actuation. A sprinkler system must be capable of shut down after the fire has been controlled, and for periodic maintenance and modification. Control valves can provide this function. In the simplest system a single shut-off valve may be located at the point where the water supply enters the building.

**\*\*UL & FM Accessories, where applicable.**

## Pressure Gauge

LF-PG



- Designed for fire sprinkler systems
- Suitable for air and water media
- Corrosion resistant case
- Dual scales (psi/bar)
- Internal pointer over-travel stop
- ASME B40.100 compliant

## Waterflow Indicator

LFJZL50/65/80/100/  
125/150/200



- Flow sensitivity range: 4-10 GPM(15-38LPM)
- Contact rating: 8A@250VAC, 3A@24VDC, 2.5A@ 30VDC
- Working Pressure: 450PSI
- Designed for both indoor and outdoor use.

## Pressure Switch

LF-PS10/40/120



- Contact rating: 10A @ 125/250VAC, 2.5A@30VDC
- IP 66
- One or Two sets of SPDT
- 300 PSI Max

Designed for the detection of a waterflow in automatic fire sprinkler systems of particular designs. It is also suitable to provide a low pressure supervisory signal.

## T-Key



T-Key for use with non-rising stem (NRS) gate valves

## Handwheel



For use with NRS gate Valve

## Supervisory Switch

LF-SSOSY-1/2/3 &  
LF-SIP-1/2/3



- Contact rating: 10A @ 125/250VAC, 2.5A@30VDC
- IP 67
- One or Two sets of SPDT

Used to monitor the open position of an OS&Y (outside screw and yoke) type gate valve & Post Indicator.

## Extension Spindles & Service Box for NRS Valve



- GD1: 150≤H1≤1000, GD2: H1≤1000.
- H-dimension shall be supplied on order.
- Valve operated by T-key.
- 16bar/25bar/200psi/300psi rated at -10°C to 120 °C.



# Deluge Valves & Alarm Check Valves



## Preaction & Deluge Valve

A

- Simple configuration for easy maintenance
- No False Alarm
- Outstanding Durability
- Anti-corrosive Trim
- Reliable Operation
- Field replaceable diaphragm and clapper seat
- 25 bar (350psi) Hydrostatic test pressure
- Vertical Installation only
- Sizes: 4" & 6"



## Deluge Valve

LF-DV100A & LF-DV150A A

- Available nominal size: 2", 3", 4", 6" & 8"
- 12 Bar (175 PSI) Pressure
- 90° pattern inlet to outlet vertical mounting
- Specialized Smoke Chamber Design
- Galvanized Steel with Brass Valves Trim
- 25 bar (350psi) Hydrostatic test pressure

## Alarm Check Valve - Wet Pipe

LF-WAV100BF/PF/BG, LF-WAV150BF/PF/BG & LF-WAV200A



- Anti-corrosive Trim
- Cast iron body for extra hydrostatic strength
- Quick removal and easy service for rubber-faced clapper
- Maximum working pressure : 175psi for 4" & 6", 250psi for 8"
- UL & FM for sizes 4" & 6", UL only for 8"

## Alarm Check Valve - Wet Pipe

A



- Size : 4" & 6"
- Maximum working pressure : 175psi
- Hydro test pressure : 100% at 350psi

Model A is designed to hold back water pressure in the piping system until the sprinkler is activated, to be used in wet pipe sprinkler installations in buildings not subject to freezing temperatures.

## Alarm Check Valve - Dry Pipe

LF-DAV100A & LF-DAV150A



- Size : 4" & 6"
- To protect the supply water to freezing
- VITON Rubber to clapper and water seats
- No false due to air supply by compressor automatically if the small leak is detected in the dry pipe.



# PRODUCT PORT FOLIO



FIRE PUMP SYSTEM

EXTINGUISHING & SUPPRESSION SYSTEM

FOAM SYSTEM & EQUIPMENT

FIRE HYDRANT & ACCESSORIES

STANDPIPE SYSTEM

FIRE DOOR ASSEMBLIES

FIRE CABINET & HOSES

FIRE EXTINGUISHERS

FIRE BLANKET

## PRODUCING TRUST IN FIRE & SAFETY



LPCB®





# CERTIFIED FIRE PUMP SKIDS



## DIESEL DRIVEN SKIDS

SFFECO is an established well reputed manufacturer of Premium Custom Engine Driven Centrifugal Fire Pump Skids. We specialized in designing and developing packages in accordance to NFPA-20 requirements with Listed & Approved Drivers.

SFFECO offers listed Centrifugal Fire Pump Skids that meet every fire protection need.



- Driven by Listed & Approved Diesel Engines.
- Well aligned and Coupled for Direct Operation.
- Skid Packages are Pre-Tested and Inspected thoroughly before release to customers.
- One piece base plate with Anchor Bolt holes.
- Engineered, coated, hot rolled mild steel to resist corrosion and abrasion.
- Heavy Fabricated C-Channel Structure constructed to provide proper alignment of Pump with Diesel Engine or Pump.
- Compact skid Design with Small Foot-Print for Retrofit.
- High standard of Quality in material Construction finish and Workmanship.

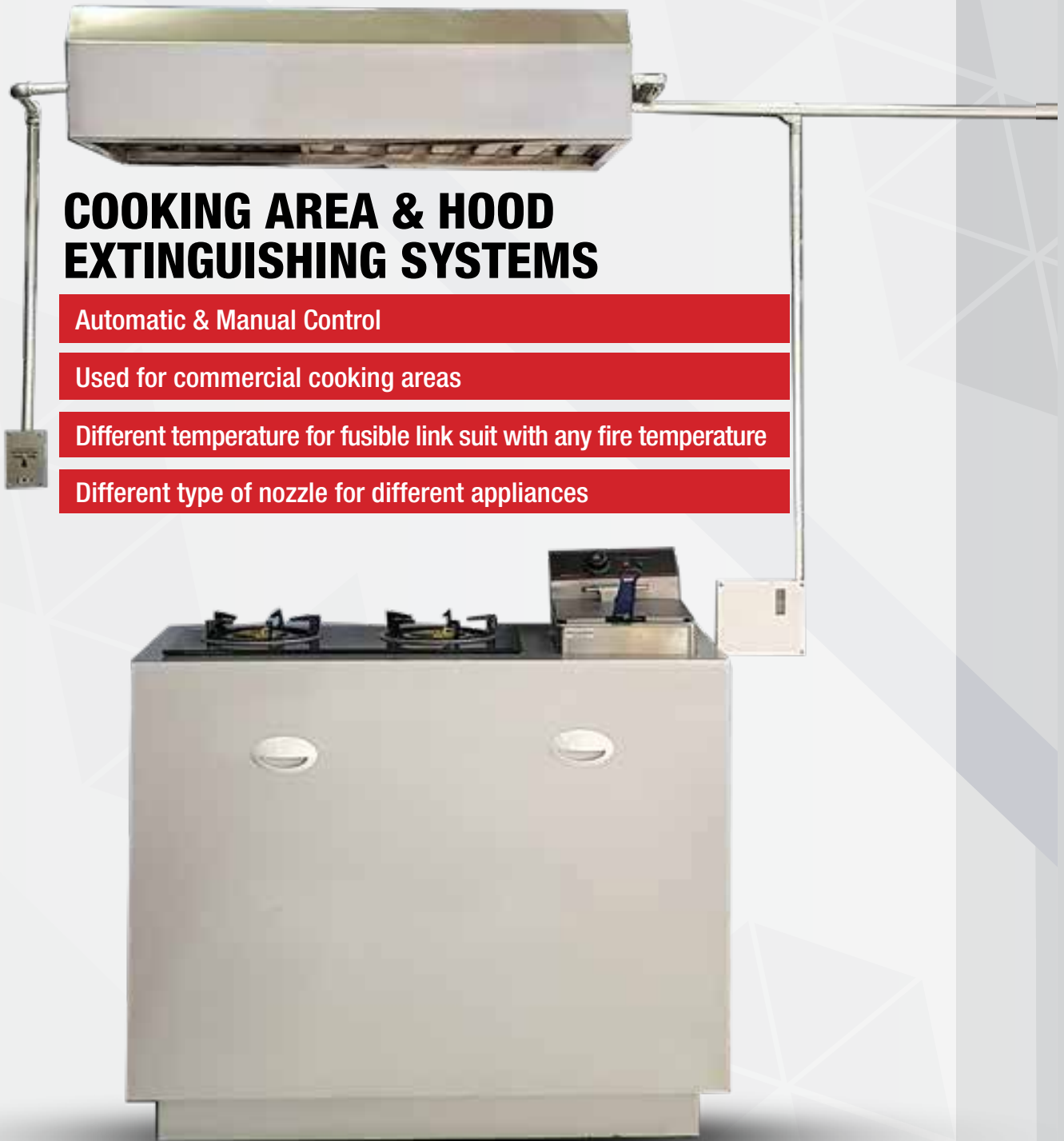
## MOTOR DRIVEN SKIDS

SFFECO is an established well reputed manufacturer of Premium Custom Motor Driven Centrifugal Fire Pump Skids. We specialized in designing and developing packages in accordance to NFPA-20 requirements with Listed & Approved Drivers.

SFFECO offers listed Centrifugal Fire Pump Skids that meet every fire protection need.



- Driven by Listed Electric Motors.
- Well aligned and Coupled for Direct Operation.
- Skid Packages are Pre-Tested and Inspected thoroughly before release to customers.
- One piece base plate with Anchor Bolt holes.
- Engineered, coated, hot rolled mild steel to resist corrosion and abrasion.
- Heavy Fabricated Steel base plate rigidly constructed to provide proper alignment of pump & Motors.
- Compact skid Design with Small Foot-Print for Retrofit.
- High standard of Quality in material Construction finish and Workmanship.



## COOKING AREA & HOOD EXTINGUISHING SYSTEMS

Automatic & Manual Control

Used for commercial cooking areas

Different temperature for fusible link suit with any fire temperature

Different type of nozzle for different appliances

# THERMO-ACT EXTINGUISHING SYSTEM



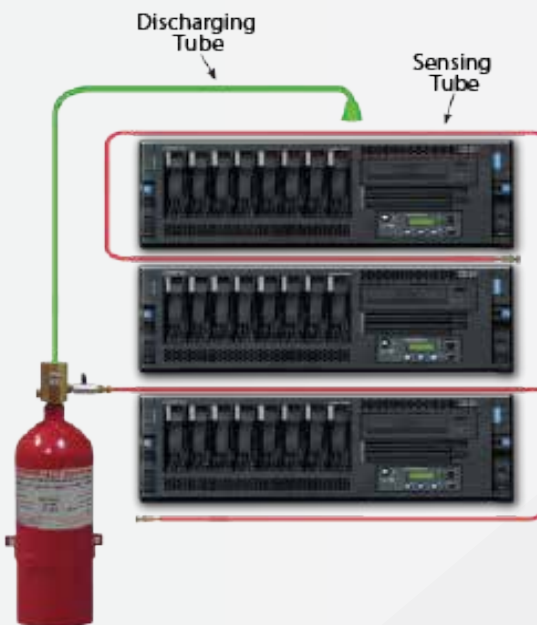
## DIRECT SYSTEM

SFEFCO Thermo-Act Direct System for low pressure agent as shown below uses the flexible tube as both the detection device and extinguishing discharge system. In case of fire, the section of tube most exposed to heat will rupture forming a discharge nozzle. The suppression agent is then completely released due to pressure drop in the tube.



## IN-DIRECT SYSTEM

SFEFCO Thermo-Act Indirect System uses the tube as a fire detection device only. The fire suppression agent is delivered through a special copper or stainless steel tubing system. Once the tube ruptures due to heat exposure, the drop in pressure activates the indirect valve to direct the flow of suppression agent to diffuser nozzles via a fixed tubing system.



# FOAM SYSTEM & EQUIPMENT



# FIRE HYDRANT & ACCESSORIES





# WET HYDRANT SYSTEMS

## CERTIFIED WET BARREL

### MODELS

SFD-250-WH - 6"  
Closed Head



### MODELS

SFD-250-WH - 6"  
Flanged Head

## STANDARD WET BARREL



### MODELS

SFH - 50W/100 - 4"

SFH - 50W/150 - 6"

## SPECIAL APPLICATION

MODEL No.	BURIED DEPTH	UPPER BODY	DIAMETER	ATTACHMENTS
*100SFH800-CI	800 mm	600 mm	4" (100mm)	1 pc 4" Pumper Connection & 2 pcs of 2.5" Dia. Hose Outlet
*100SFH1200-CI	1200 mm	669 mm	4" (100mm)	1 pc 4" Pumper Connection & 2 pcs of 2.5" Dia. Hose Outlet
150SFH800-CI	800 mm	600 mm	6" (150mm)	1 pc 4" Pumper Connection & 2 pcs of 2.5" Dia. Hose Outlet
150SFH1200-CI	1200 mm	669 mm	6" (150mm)	1 pc 4" Pumper Connection & 2 pcs of 2.5" Dia. Hose Outlet
SFH-100-CIV	1200 mm	669 mm	4" (100mm)	1 pc 4" pumper connection female BSP+ Male Cap & Male
SFH-150-CIV	1200 mm	669 mm	6" (150mm)	Plug Outlet 2.5"BS336 Ductile iron with Ductile Cap inside builtin ball valve





# FIRE DOOR ASSEMBLIES



## TEMPERATURE RISE

Fire Protection Rating  
Upto 2 Hour



Single Leaf Door



Double Leaf Door

## NON TEMPERATURE RISE

Fire Protection Rating  
Upto 2 Hour



Single Leaf Door



Double Leaf Door

## AIR LEAKAGE & TEMPERATURE RISE

Fire Protection Rating  
Upto 3 (Single Door)  
Upto 1 Hour (Double Door)



Single Leaf Door



Double Leaf Door

Air leakage determined to have an air leakage rate of the door assembly not exceeding 3.0 cfm per square foot of door opening at 0.10 inch of water for both ambient and 400 F temperature conditions, per NFPA 105.

# FIRE CABINETS

## RUBBER HOSE ENCLOSURE



**SF300**  
with Manual Fire Hose

Width	Height	Depth
800	800	230

**SF300A**  
with Automatic Fire Hose

Width	Height	Depth
800	800	230



**SF600**  
with Manual Fire Hose

Width	Height	Depth
1050	800	230

**SF600A**  
with Automatic Fire Hose

Width	Height	Depth
1050	800	230



**SF900**  
with Manual Fire Hose

Width	Height	Depth
800	1600	230

**SF900A**  
with Automatic Fire Hose

Width	Height	Depth
800	1600	230



## SYNTHETIC HOSE ENCLOSURE



**SF4400**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
900	700	230

**SF4600**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
850	850	230

**SF5400**  
with 2 1/2" Synthetic Hose

Width	Height	Depth
950	750	230

**SF5600**  
with 2 1/2" Synthetic Hose

Width	Height	Depth
950	900	230



**SF4200**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
950	700	230

**SF5200**  
with 2 1/2" Synthetic Hose

Width	Height	Depth
990	750	230



**SF4000**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
700	700	230

**SF5000**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
750	750	230

## HOSE RACK CABINET



**SFR150**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
700	850	230



**SFR200E 200EV**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
700	850	230

Space for 6 KG ABC Dry Powder Extinguisher & Space for Additional Valve for SFR200EV & SFR200E with space for Extinguisher only.

## HOSE RACK CABINET



**SFD-HRC-150**  
with 1 1/2" Synthetic Hose

Width	Height	Depth
750	950	230



## FIRE RATED CABINETS

### DOOR STYLES

Sffeco Fire Rated Cabinet have been manufactured with range of styles.

- Insulated Flush Metal Door
- Hollow Flush Metal Door
- GLASS APPLICATION
- Tempered Glass, Wired Glass, Fire Rated Glass, Normal Glass

### FINISHING

Sffeco Fire Rated Cabinet are available in multiple finishes as follows:

- Red Painted (RAL3000) for Mild Steel
- Hairline, Mirror & Brush for Stainless Steel (304 Or 316)

### SIZE OF GLASS

- Size of Glass
- WIDTH 400 MM x HEIGHT 560 MM
- Maximum Glass Openin Size



### SHEET THICKNESS

MILD STEEL	STAINLESS STEEL
1 mm	1 mm
1.2 mm	1.2 mm
1.5 mm	1.5 mm
2 mm	

The sheetmetal can be either cold rolled steel, hot dip galvanized, electro-galvanized, galvalume, S.S.

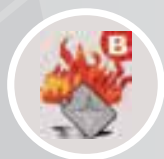
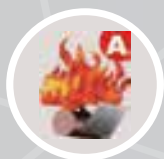
# FIRE EXTINGUISHERS



# AUTOMATIC EXTINGUISHERS

## ABC POWDER AUTOMATIC Fire Extinguisher

Automatic Dry Powder Extinguishers work by firstly applying a coating to the fire which acts like a blanket suffocating the fire. Nitrogen (an inert gas) which is released during the process assists in suffocating further, while simultaneously tackling the chemical reaction of the fire preventing the heat being formed and thereby cooling the floor.

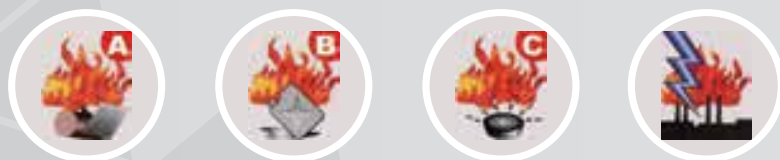


MODEL	PD4.5 MATIC	PD6 MATIC	PD10 MATIC	PD12 MATIC	PD15 MATIC	PD20 MATIC	PD25 MATIC	PD30 MATIC
Capacity	4.5 Kg	6 Kg	10 Kg 12	12 Kg	15 Kg	20 Kg	25 Kg	30 Kg
Total Weight	10.56 Kg	12.06 Kg	19 Kg	22.92 Kg	26 Kg	34 Kg	41 Kg	47 Kg
Total Height (mm)	400	400	460	485	525	470	470	595
Cylinder Height (mm)	162	162	280	305	325	320	320	410
Cylinder Diameter (mm)	280	280	280	280	280	280	360	360
Duration of Discharge (Sec)	10-12	14-16	16-18	18-22	22-26	26-31	30-35	35-40
Extinguishing Agent	Dry Chemical							
Propelling Agent	N2/Dry Air							
Working Pressure	12-15 Bar							
Testing Pressure	30 Bar							
Coating	Electrostatic Polyester Powder							
Storage Temperature	-20°C to +60°C							

# AUTOMATIC EXTINGUISHERS

## AFFF FOAM AUTOMATIC Fire Extinguisher

Automatic Foam Extinguishers (AFFF – Aqueous Film Forming Foam) works by firstly applying a film forming foam (bubbles) to the fire which causes a blanket over the fire, suffocating the fire, while almost simultaneously cooling the fire.



MODEL	FX4.5 MATIC	FX6 MATIC	FX10 MATIC	FX12 MATIC	FX15 MATIC	FX20 MATIC	FX25 MATIC	FX30 MATIC
Capacity	4.5 Ltr	6 Ltr	10 Ltr	12 Ltr	15 Ltr	20 Ltr	25 Ltr	30 Ltr
Total Weight	10.56 Kg	12.06 Kg	19 Kg	22.92 Kg	26 Kg	34 Kg	41 Kg	47 Kg
Total Height (mm)	400	400	460	485	555	525	470	575
Cylinder Height (mm)	162	162	280	305	370	340	320	390
Cylinder Diameter (mm)	280	280	280	280	280	360	360	360
Duration of Discharge (Sec)	20-28	25-30	50-60	60-90	90-120	120-150	150-180	180-210
Extinguishing Agent	AFFF							
Propelling Agent	N <sub>2</sub>							
Working Pressure	12-15							
Testing Pressure	30							
Coating	Electrostatic Polyester Powder							
Storage Temperature	5°C to 60°C							



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## AUTHORIZED BRANDS



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