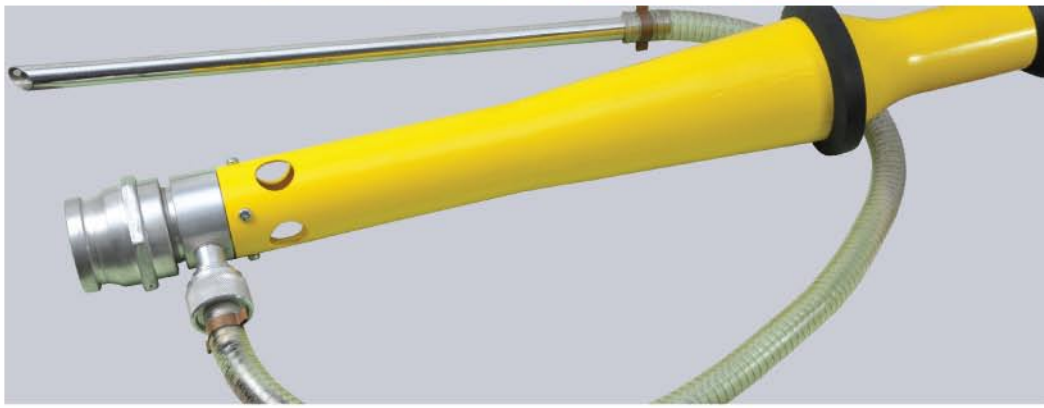
KOLLING®

Fire Appliance Manufacturer.Brass And Aluminium Founders.



2010 EDITION

Introduction

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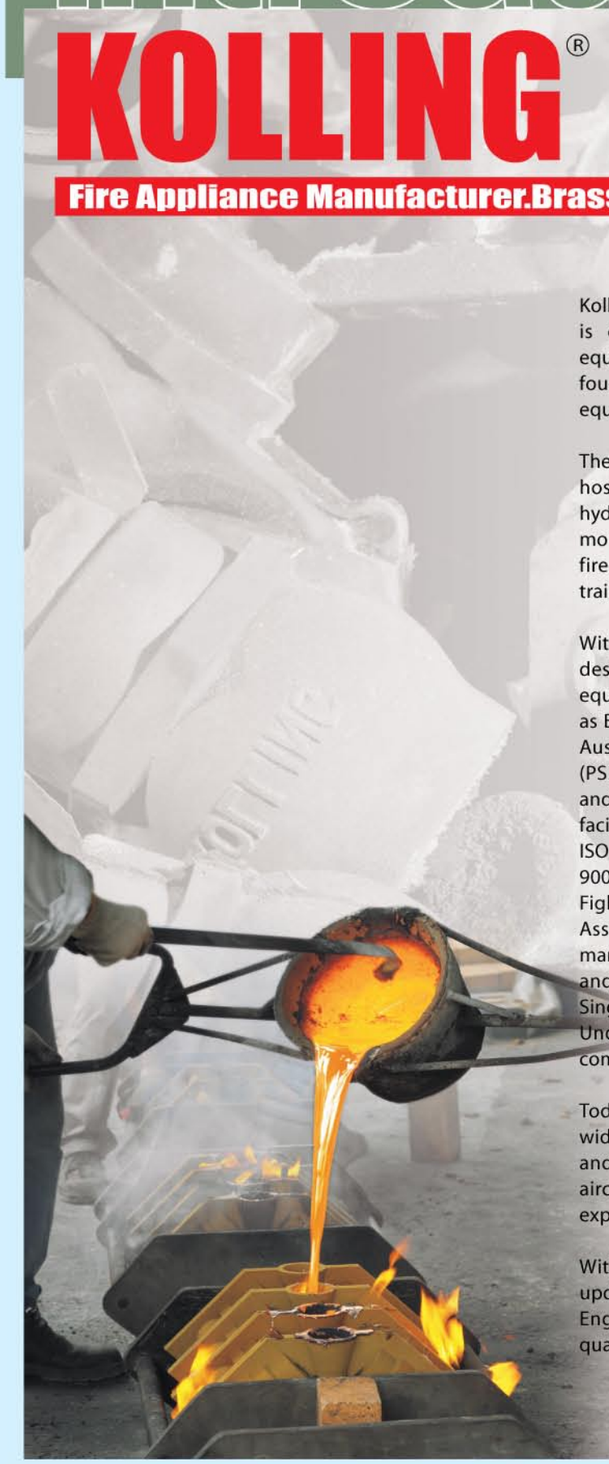

Kolling Engineering Sdn Bhd, established in 1973, is one of the leading manufacturers of fire equipments in the country. In the late 70s', Kolling foundry was founded for the production of fire equipments.

The range of products manufactured included fire hose reels, hose rack, cabinets, nozzle, pedestal hydrants, hydrant valves, couplings, adaptors, foam monitor, foam inductor, mobile foam unit, mobile fire equipment trailers and foam/water monitor trailers.

With years of experience, Kolling is capable of designing and manufacturing reliable fire equipments to meet international standards such as British Standards (BS), European Standards (EN), Australian Standards (AS), Singapore Standards (PSB), Underwriter Laboratories Standards (UL), and Malaysian Standards (MS). Our manufacturing facilities are certified to meet ISO 9001:2008, EN ISO 9001:2008, BS EN ISO 9001:2008 and MS ISO 9001:2008 for Design and Manufacturing of Fire Fighting Equipment by Lloyd's Register Quality Assurance and product listing scheme on our manufacturing facility, auditing of quality system and factory production control system by PSB Singapore & SIRIM Malaysia. Kolling is certified by Underwriters Laboratories Inc. to produce components to standard requirements.

Today, Kolling fire equipments are being used widely by the Fire Services Department, Petroleum and Chemical industries, buildings, factories, aircraft hangar and ports. Kolling products are exported worldwide.

With continuous research and development to update the product and the technology, Kolling Engineering Sdn Bhd is confident to provide quality product with optimum performance.

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Fabricating of steel cabinet with CNC press brake and CNC turret punch.

Smelting of Copper Alloy

High Pressure Die-Casting for Aluminium Alloy Components

FIRE HOSE REELS

Automatic Swing Type

Manual Swing Type

Model S

Kolling Fire Hose Reels are designed and constructed to conform to European Standard 671-1-2001 and are listed under the Singapore and Malaysia product listing scheme. Under this listing scheme , the certification authority carry out regular inspection on our manufacturing facility, auditing of quality system and factory production control system.

Each unit of our Fire Hose Reel go through hydrostatic pressure test and regular random performance tests to ensure reliability and compliance to the standard.

Kolling manufactures a wide range of fire hose reels, 3/4" (19mm), and 1" (25mm), manual and automatic , swing and fixed type.
Manual fire hose reel for both swing and fixed type consists of a manual inlet stop valve, a reel with water supplied through the centre , while the automatic fire hose reel has an inlet, a reel with an automatic inlet stop valve , water supplied through the centre and automatic valve will fully open in less than three (3) complete revolution of the reel.

Kolling hose reels can be supplied complete with semi rigid hose , hose clip , brass jet nozzle , jet and spray or plastic nozzle , manual inlet stop valve and hose guide (fixed type).

Kolling swing type hose reels consists of a double 180 deg. swivel joints , a reel capable of rotating and swinging in more than one plane , enable the fire hose reel to be installed in steel cabinet and recess wall , while the fixed type hose reel capable of rotating in one plane come with a hose guide which allow withdrawal of hose in any direction.

General Specification

Side plate mild steel of EPE Powder Coating, and is also available in stainless steel.

Inlet : 3/4" (19mm) or 1" (25mm) BSP Thread
Outlet Connection to Hose : 3/4" (19mm) or 1" (25mm) serrated
Waterway : Aluminium Alloy and GI coated steel against corrosion
Working Pressure : 12 bar (217 psi)
Test Pressure : 18 bar (261 psi)
Arm Type Material : Aluminium Alloy to BS 1490

Product	Code	Hose Length	Width between drums	A	B
		mm(IN) X M	mm	mm	mm
Swing Type Manual Hose Reel	HR501-S25	25(1) x 30	232	540	350
	HR501-S19	19(3/4) x 30	232	540	350
	HR521-S25	25(1) x 30	232	485	350
	HR521-S19	19(3/4) x 30	170	485	290
	HR533-S25	25 (1) x 30	170	540	290
	HR533-S19	19(3/4) x 30	152	540	270
	HR534-S25	25(1) x 30	208	540	330
	HR534-S19	19(3/4) x 30	170	540	290
	HR535-S25	25(1) x 30	170	600	290
	HR535-S19	19(3/4) x 30	152	600	270
Swing Type Automatic Hose Reel	HR516-S25	25(1) x 30	232	540	350
	HR516-S19	19(3/4) x 30	232	540	350
	HR523-S25	25(1) x 30	232	485	350
	HR523-S19	19(3/4) x 30	170	485	290
	HR536-S25	25(1) x 30	170	540	290
	HR536-S19	19(3/4) x 30	152	540	270
	HR537-S25	25(1) x 30	208	540	330
	HR537-S19	19(3/4) x 30	170	540	290
	HR538-S25	25(1) x 30	152	600	270
	HR538-S19	19(3/4) x 30	152	600	270
Fixed Type Manual Hose Reel	HR505-S25	25(1) x 30	232	540	295
	HR505-S19	19(3/4) x 30	170	540	235
	HR525-S25	25(1) x 30	170	540	235
	HR525-S19	19(3/4) x 30	152	485	215
	HR522-S25	25(1) x 30	152	600	215
	HR522-S19	19(3/4) x 30	152	600	215
Fixed Type Automatic Hose Reel	HR517-S25	25(1) x 30	232	540	295
	HR517-S19	19(3/4) x 30	170	540	235
	HR524-S25	25(1) x 30	170	540	235
	HR524-S19	19(3/4) x 30	152	485	215
	HR526-S25	25(1) x 30	152	600	215

Model B

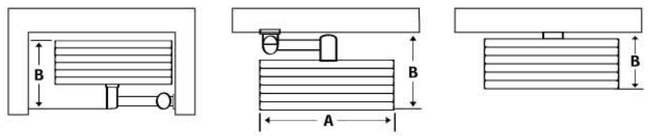
Kolling Fire Hose Reels are designed and constructed to conform to European Standard 671-1-2001 and are listed under the Singapore product listing scheme. Under this listing scheme, the certification authority carry out regular inspection on our manufacturing facility, auditing of quality system and factory production control system.

General Specification

Side plate, mild steel of EPE Powder Coating and is also available in stainless steel.

Inlet : 3/4" (19mm) or 1" (25mm) serrated
Outlet Connection to Hose : 3/4" (19mm) or 1" (25mm) serrated
Waterway : Aluminium Alloy & Steel
Working Pressure : 12 bar (217 psi)
Test Pressure : 18 bar (261 psi)
Arm Type Material : Steel EPE powder coating and also available in stainless steel

Product	Code	Hose Length	Width between drums	A	B
		mm(in) x M	mm	mm	mm
Swing Type Manual Hose Reel	HR501-25B	25(1) x 30	232	540	310
	HR518-25B	25(1) x 30	170	600	250
	HR518-19B	19(3/4) x 30	152	600	230
	HR534-19B	19(3/4) x 30	170	540	250
	HR539-25B	25(1) x 30	232	485	310
	HR539-19B	19(3/4)x 30	170	485	250
Swing Type Automatic Hose Reel	HR519-25B	25(1) x 30	170	600	250
	HR519-19B	19(3/4) x 30	152	600	230
	HR531-25B	25(1) x 30	232	540	310
	HR531-19B	19(3/4) x 30	170	540	250
	HR540-25B	25(1) x 30	232	485	310
	HR540-19B	19(3/4) x 30	170	485	250



Swing Type (Recessed Mounting) | Swing Type (Surface Mounting) | Fixed Type (Surface Mounting)

Due to our continuous research and development for product improvement specifications subject to change without prior notice.

Fixed Type

Model B

HR 508 / B

HR 508 / R

Hose (Hose Reel)

Kolling manufactures 3/4" (19mm) and 1" (25mm) fire hose reel hose conform to European Standard EN 694. It's available in Red or Black.

General Specification

Working Pressure : 12 bar (175 psi)
Test Pressure : 18 bar (261 psi)
Minimum Burst Pressure : 43 bar (623 psi)

Nozzle Box

Code	Description	Material
HR511	Nozzle Box	Mild Steel

HR 511

Dimension : +130mm (W) x 130mm (H) x 55mm (D)
Thickness : 0.9mm
Installation : Wall Mounted
Finishing : RED EPE Powder Coated

Hose Reel Nozzle

Code	Description	Material
HR503-25	1"(25mm) Jet Nozzle	Brass
HR503-19	3/4"(19mm) Jet Nozzle	Brass
HR504-25	1"(25mm) Jet / Spray Nozzle	Brass
HR504-19	3/4"(19mm) Jet / Spray Nozzle	Brass
HR509-25	1"(25mm) Jet / Spray Nozzle	Plastic
HR509-19	3/4"(19mm) Jet / Spray Nozzle	Plastic
HR510-25	1"(25mm) Jet / Spray Nozzle	ABS Chrome
HR510-19	3/4"(19mm) Jet / Spray Nozzle	ABS Chrome

HR 503 HR 504 HR 509 HR 510

Handline Nozzle

Code	Description	Connection
#366	30-60-95-125 GPM (115-230-360-475L/min)	1 1/2", 2 1/2" NH or 2 1/2" Male Instantaneous
#368	95-125-150-200-250 GPM (360-475-550-750-950L/min)	1 1/2", 2 1/2" NH or 2 1/2" Male Instantaneous

#366

#368

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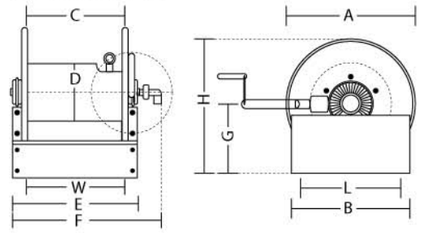
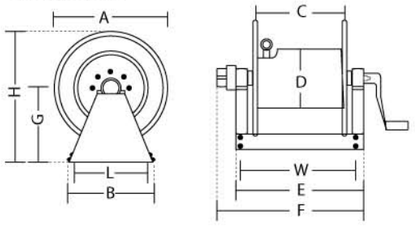
CONTINUOUS FLOW HOSE REELS

Gear-crank rewind



Crank rewind



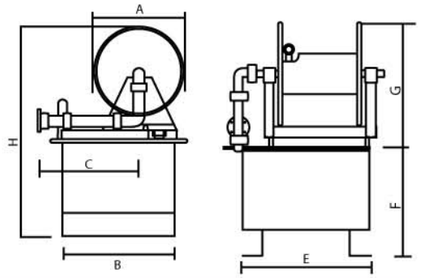
HR 530

HR 502

Continuous - Flow Hose Reel with Foam Station

HR 528

Tank capacity
Available 130 lit
or 250 lit



Model	Reel Capacity mm-meter	Reel Capacity in-feet	A	B	C	H	E	F	G	Tank Capacity	US Gallon
FHR528-38-45-250	38 x 45	1 1/2"X 150	730	710	520	1400	860	660	840	250Lt	66
FHR528-38-30-130	38 x 30	1 1/2"X 100	730	710	520	1250	760	410	840	130Lt	33

General Specification

Material for reel : Steel hot dipped galvanized, stainless steel
Water way : Steel hot dipped galvanized or stainless steel
Inlet : Horizontal or 90 deg ball bearing swivel joint, male, female thread, NPT, NH, BSP or flanged
Outlet : Male or Female thread. NPT, NH or BSP
Hose length : 30M or 45M
Nozzle : Pistol Grip Nozzle
Finishing : Red or silver EPE powder coated
Option : Marine paint for saline condition

Different drum length, disc diameter and hose capacity other than shown can be supplied upon customer requirement (Higher working pressure are available)

Continuous - Flow Hose Reel

Kolling manufactures a wide range of manual rewind continuous flow hose reel for water and foam application. It is suitable for use in fire-engine, off shore platform, petrol chemical plant, refinery and hazardous industries. Other models are available with built-in inductor and water by-pass loop for foam application. Inductor come with adjustable variable valve 0-6% for various type of foam concentrate. The hose reel can be mounted on steel, stainless or fiberglass tank for storage of foam concentrate and install in steel cabinet or outdoor application.

Model	Reel Capacity mm-meter	Reel Capacity in-feet	A	B	C	D	E	F	G	H	L	W
HR502-25-30	25x30	1"x100'	580	645	396	268	535	630	355	650	395	495
HR502-25-45	25x45	1"x150'	580	645	510	268	650	755	355	650	395	610
HR502-25-61	25x61	1"x200'	730	645	396	268	535	630	410	780	395	495
HR502-32-30	32x30	1 1/4"x100'	730	645	396	268	535	630	410	780	395	495
HR502-38-30	38x30	1 1/2"x100'	730	645	396	268	535	630	410	780	395	495
HR502-38-45	38x45	1 1/2"x150'	730	645	510	268	650	755	410	780	395	610
HR502-50-30	50x30	2"x100'	805	810	610	510	770	900	410	910	570	719
HR502-50-55	50x55	2"x180'	995	1100	610	510	770	900	600	1100	860	719
HR502-75-24	75x24	3"x80'	995	1100	610	510	770	900	600	1100	860	719

General Specification

Material for reel : Steel or hot dipped galvanized, aluminum alloy or stainless steel
Water way : Ferrous hot dipped galvanized, or stainless steel
Rewind : Disc rewind or detachable crank rewind handle.
Inlet : Horizontal or 90 deg ball bearing swivel joint, male, female thread, NPT, NH, BSP or flanged
Outlet : Male thread. NPT, NH or BSP
Working pressure : 40 bar with suitable hoses
Finishing : Red or silver EPE powder coated
Option : Marine paint for saline condition

Different drum length, disc diameter and hose capacity other than shown can be supplied upon customer requirement (Higher working pressure are available)

Continuous - Flow Hose Reel Gear-Crank Rewind with Detachable Handle and Brake Assembly

Model	Reel Capacity mm-meter	Reel Capacity in-feet	A	B	C	D	E	F	G	H	L	W
HR530-25-15	25x30	1"x100'	635	650	193	268	332	602	407	725	390	292
HR530-25-46	25x46	1"x150'	635	650	396	268	535	805	407	725	390	495
HR530-32-46	32x46	1 1/4"x150'	635	730	345	268	472	772	453	742	470	432
HR530-38-23	38x23	1 1/2"x75'	635	650	396	268	535	805	406	723	390	495
HR530-50-30	50x30	2"x100'	635	605	815	355	975	1245	330	650	390	935

General Specification

Material for reel : Steel hot dipped galvanized, stainless steel
Water way : Steel hot dipped galvanized or stainless steel
Inlet : Horizontal or 90 deg ball bearing swivel joint, male, female thread, NPT, NH, BSP or flanged
Outlet : Male or Female thread. NPT, NH or BSP
Hose length : 30M or 45M
Nozzle : Pistol Grip Nozzle
Finishing : Red or silver EPE powder coated
Option : Marine paint for saline condition

Different drum length, disc diameter and hose capacity other than shown can be supplied upon customer requirement (Higher working pressure are available)

Due to our continuous research and development for product improvement specifications subject to change without prior notice.

Pressure Reducing Valve

Code	Size	Description	Material
HR551-25	1″ (25mm)	Max Inlet: 20 bar Outlet pressure: 1-4 bar	Copper Alloy
HR551-38	1 1/2″ (38mm)		Copper Alloy
HR551-50	2″ (50mm)		Copper Alloy

Gate Valve

Code	Size	Material
HR552-19	3/4″ (19mm)	Copper Alloy
HR552-25	1″ (25mm)	Copper Alloy

Ball Valve with Locking Device

Code	Description	Material	Working Pressure
HR553-19	3/4″ (19mm) Ball Valve	Copper Alloy	250 psi / 17 bar
HR553-25	1″ (25mm) Ball Valve	Copper Alloy	250 psi / 17 bar

Hose Guide

Code	Description	Material
HR513	Mounting at Inlet Pipe	Steel/Nylon Roller

Dry Riser Gate Valve

Code	Inlet Size
HV018	2 1/2″ (65mm) male BSPT
HV018(F)	2 1/2″ (65mm) PN16 to BS4504

Right Angle Valve (Hose Rack)

Code	Inlet Size
HV019-38	1 1/2″ (38mm) male BSPT
HV019-65	2 1/2″ (65mm) male BSPT

Oblique Landing Valve with Storz Outlet

Code	Inlet Size
HV020	2 1/2″ (65mm) male BSPT
HV020(F)	2 1/2″ (65mm) PN16 to BS4504

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HYDRANT VALVE

HV001

HV002

HV 003

HV 004

HV 005

HV 006

HV 007

Kolling Self Regulating Valve are design and constructed to comform fully to BS5041: Pt.1 1987 which do not require a return pipe. Valve shall be of the rising stem inside screw type having the actuating thread within the bonnet. The hand wheel shall have a minimum clearance of 40mm between any part of the valve vertically below. The valve body shall be able to withstand a hydrostatic pressure of 30 bars and the seat for 22 bar. The flow rate shall be 8.5± 0.5 L/S at inlet pressure of 7.5 bar and up to 20 bar. The mechanism for outlet pressure adjustment shall be fitted with a locking/clamping device to maintain the initial setting.

Valve shall comply with all the operational requirements of the standard without alteration of initial setting. (e.g Inlet pressure from 5 bars up to 20 bars but outlet pressure shall remain at a constant pressure without further adjustment). Material for valve shall be LG2 or LG4 gunmetal for body and copper alloy for bonnet and stem.

Valves For Wet & Dry Riser System

Kolling manufactures low and high pressure hydrant valves, consist of various types such as horizontal, bib nose, oblique and right angle. All valves manufacture to BS 5041 : Pt.1 and Pt.2

General Specification

Body : Copper Alloy to BS 1400
Hand wheel : Aluminium Alloy to BS 1490
Inlet : Screw End / Flanged End
Outlet : Female Instantaneous to BS 336 / ANSI NH-7.5 / Round Thread to BS 336 and storz

Specification For Low Pressure Valve

Working Pressure : 15 bar (217 psi)
Seat Test Pressure : 16.5 bar (239 psi)
Body Test : 22.5 bar (326 psi)

Specification For High Pressure Valve

Working Pressure : 20 bar (290 psi)
Seat Test Pressure : 22 bar (319 psi)
Body Test : 30 bar (435 psi)

Product	Code	Inlet Size
Horizontal Valve	HV 001	2 1/2" (65mm) BSPT Male
	HV 001(F)	2 1/2" (65mm) PN16 to BS 4504
Bib Nose Valve	HV002	2 1/2" (65mm) BSPT Male
	HV 002(F)	2 1/2" (65mm) PN16 to BS 4504
Right Angle Valve	HV 003	2 1/2" (65mm) BSPT Male
	HV 003(F)	2 1/2" (65mm) PN16 to BS 4504
Pressure Reducing Valve	HV 004	2 1/2" (65mm) BSPT Male
	HV 004(F)	2 1/2" (65mm) PN16 to BS 4504
Oblique Valve	HV 005	2 1/2" (65mm) BSPT Male
	HV 005(F)	2 1/2" (65mm) PN16 to BS 4504
Oblique Pressure Reducing Valve	HV 006	2 1/2" (65mm) BSPT Male
	HV 006(F)	2 1/2" (65mm) PN16 to BS 4504
Self Regulating Valve	HV 007	2 1/2" (65mm) BSPT Male
	HV 007(F)	2 1/2" (65mm) PN16 to BS 4504
Air Release Valve	HV 009-19	3/4" (19mm) BSPT Male
	HV 009-25	1" (25mm) BSPT Male
Sluice Valve	HV 011-100	4" (100mm) PN16 to BS 4504
	HV 011-150	6" (150mm) PN16 to BS 4504
Hydrant Ball Valve with Locking Device	HV 014	NPT Male
	HV 014(F)	2 1/2" ANSI 150 FF
Oblique Valve	HV 016	2 1/2" (65mm) BSPT Male
	HV 016(F)	2 1/2" ANSI 150 FF
Right Angle Valve	HV 017	Mechanical Joint
		2 1/2" (65mm) BSPT Male

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HV 009

HV 011

HV 014

HV 016(F)

HV 017

DC 707-S

DC 708-S

Wet And Dry Riser Equipment

Kolling 2 way and 4 way Inlet Breeching are manufactured to BS 5041: Pt. 3, boxes for landing valves for dry riser to BS 5041: Pt.4 and boxes for foam inlet and dry riser inlet are manufactured to BS 5041: Pt.5.

The inlet connections shall be spaced at not less than 4 1/2" (115mm) centres for 2 way Inlet Breeching and at not less than 6" (150mm) centres for 4 way Inlet Breeching.

General Specification

2 way & 4 way Inlet Breeching

Body Material	: Spheroidal Graphite Iron to BS 2789.
Inlet	: 65mm male Instantaneous to BS336 Copper Alloy to BS 1400.
Outlet - 2 way breeching	: 100mm PN 16 to BS 4504 / 4" ANSI class 150FF
4 way breeching	: 150mm PN 16 to BS 4504 / 6" ANSI class 150FF
Working Pressure	: 10 bar (145 psi)
Test Pressure	: 20 bar (290 psi)

Code	Description
DC707-S	2 way Inlet Breeching
DC708-S	4 way Inlet Breeching

Optional : Other inlet and outlet are available upon request

DC 709

DC 710

Wet and Dry Riser Box

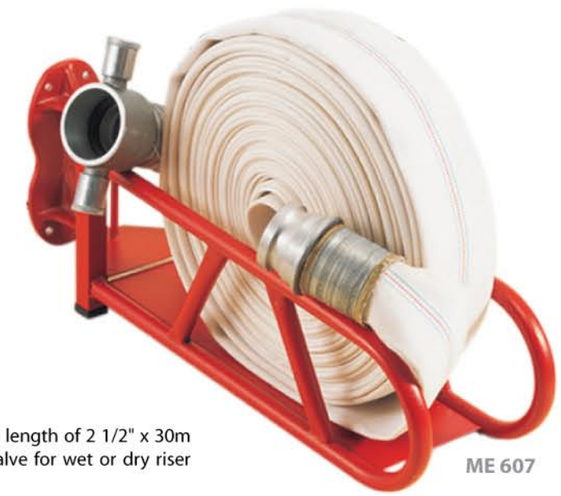
General Specification

2 way Dry Riser and 4 way Wet Riser Inlets Box

Material & Thickness	: Mild Steel / 1.2mm.
Glass	: Wire Mesh.
Installation	: Recess Mounted.
Finishing	: EPE Powder Coating Red.
Manufacture to	: BS 5041 : Pt. 5

Code	Description	Dimension
DC709	2 way Dry Riser Inlet Box	595mm x 395mm x 295mm
DC710	4 way Wet Riser Inlet Box	595mm x 595mm x 295mm

Optional: Electrolytic Galvanized (EG) or Stainless steel material available upon request.



ME 607

Hose Cradle

Kolling Hose cradle is suitable for the storage of one length of 2 1/2" x 30m lay flat fire hose and is install next to fire hydrant valve for wet or dry riser system.

General Specification

Body	: Mild Steel EPE Powder Coated Red
Bracket	: Aluminium Alloy.
Type	: Swing 180 deg.
Code	: ME 607

ME 608

Hose Rack Assembly

Kolling hose rack assembly is install in building next to fire hydrant valve for wet and dry riser system. There are two type of hose rack assembly, one is mounted on the wall by bracket and another is by fixing it on a right angle valve. Once the nozzle and the hose are fully pull out, an automatic release machanism will enable water to discharge.

General Specification

Body	: Mild Steel for 1 1/2" or 21/2" hose
Bracket	: Mild Steel EPE powder coated.
Hose	: Lay flat hose 1 1/2" or 2 1/2"
Nozzle	: 1 1/2" or 2 1/2" connection
Valve Connection	: BS Instantaneous or NHT.
Code	: ME 608.

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PH 1001

PH 1002

SPP 9522BS

Fire Hydrant

Kolling manufactures Pedestal Hydrant consist of High and Low Pressure Type. Kolling hydrants are suitable for use in refineries, factories and public housing.

General Specification (High Pressure)

Body Material : Carbon Steel
Outlet : HV007
Test Pressure : 30 bar (435 psi)
Working Pressure : 20 bar (290 psi)
Seat Test Pressure : 22 bar (319 psi)
Finishing : Red

General Specification (Low Pressure)

Body Material : Cast Iron to BS1452
Outlet : HV005
Test Pressure : 22.5 bar (326 psi)
Working Pressure : 15 bar (217 psi)
Seat Test Pressure : 16.5 bar (239 psi)
Finishing : Red

Other inlet and outlet connection are available upon customer requirement.

2 WAY FIRE HYDRANT

Code	Outlet	Inlet	Body	Type
PH 1001	2 x 65mm Male Thread	100mm PN 16 To BS 4504	Cast Iron	Low Pressure
PH 1002	2 x 65mm Hydrant Valve with Female Instantaneous BS 336	100mm PN 16 To BS 4504	Cast Iron	Low Pressure
SPP 9513	2 x 65mm Self regulating Valve with Female Instantaneous BS 336	100mm ANSI 150 FF	Carbon Steel	High Pressure
SPP 9522NH	2 x 65mm Self Regulating Valve with Male NHT	100mm ANSI 150 FF	Cast Iron	Low Pressure
SPP 9522BS	2 x 65mm Self Regulating Valve Female Instantaneous BS 336	100mm PN 16 To BS 4504	Cast Iron	Low Pressure

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3 WAY FIRE HYDRANT

Code	Outlet	Inlet	Body	Type
SPP 9527	2 x 65mm Hydrant Valve/ Self Regulating Valve (007) with Male NHT. 1 x 100mm Male NHT (Pumper). 1 x 100mm ANSI Class 150 F.F Flange (Monitor Mounting).	150mm ANSI Class 150 F.F Flange	Carton Steel	High Pressure

Code	Outlet	Inlet	Body	Type
PH 1003 (A)	2 x 65mm Male Thread 1 x 100mm Female Round Thread BS 336 (Pumper)	150mm PN 16 To BS 4504	Cast Iron	Low Pressure
PH 1003 (B)	2 x 65mm Hydrant Valve with Female Instantaneous BS 336 1 x 100 mm Female Round Thread BS 336 (Pumper)	150mm PN 16 To BS 4504	Cast Iron	Low Pressure
SPP 9526	2 x 65mm Self Regulating Valve with Female Instantaneous BS 336 1 x 100mm Female Round Thread BS 336 (Pumper)	150mm PN 16 To BS 4504	Cast Iron	Low Pressure

UNDERGROUND HYDRANT

General Specification (Low Pressure)

Body : Cast Iron to BS1452
Outlet : Copper Alloy to BS1400 Round / V-Thread
Inlet : 75mm Flange to PN16
Test Pressure : 20 bar (300 psi)
Code : PH1004

PH 1004

SPP 9527

PH 1003 (A)

PH 1003 (B)

SP 801

SP802

SP 803

SP 804

SP 805

SP 807

Standpipes

Kolling standpipes are manufactured from Aluminium Alloy or Copper Alloy to the highest standards to ensure maximum performance and durability. They are used to connect onto pressurized water main supply through underground hydrant valve. The inlet or base of the standpipe can be manufactures to suit a variety of hydrant connections but is normally supplied with a female round thread or vee thread capable of engaging with a fire hydrant complying to BS 750.

Standpipe are available in single or double outlet 65mm female instantaneous to BS 336 and are connected to the shaft having a 65mm male and female instantaneous (double pull release type) or a swivel gland that will allow continuous rotation of the head through 360 deg. The head with an instantaneous connection may be removed but the swivel type is an integral part of the standpipe. Double outlet standpipe is supplied with a single 65mm male blank plug .

Other connections for inlet , outlet and length of shaft are available upon customers requirement.

General Specification for Standpipes

Standpipe Shaft : Aluminium Alloy to BS 1490
Copper Alloy to BS 2873
Standpipe Base and Head : Aluminium Alloy to BS 1490
Copper Alloy to BS 1400
Working Pressure : 15 bar (217 psi)
Test Pressure : 22.5 bar (326 psi)

Code	Description	Type
SP 801	Single outlet standpipe	Double Pull Release
SP 802	Double outlet standpipe	Double Pull Release
SP 803	Single outlet standpipe	Swivel Gland
SP 804	Double outlet standpipe	Swivel Gland

Hydrant Key & Bar

Hydrant Key & Bar are used on underground hydrant and sluice valves. Adaptors may be supplied for use on other hydrant valves.

General Specification for Hydrant Key & Bar

A) Key End : Aluminium Alloy to BS 1490
Shaft Tube Aluminium Alloy to BS 1474
Bar : Aluminium Alloy to BS 1474
B) Key End : Cast Steel
Shaft Tube : Steel
Bar : Steel

Code	Description
SP 805	Hydrant key and bar
SP 807	Cast steel hydrant key and bar

Due to our continuous research and development for product improvement specifications subject to change without prior notice.

SF1200

SF1201

SF1202

SF1203

SF1205

SF1209

SF1210

SF 1207

DC703

DC704

DC705

DC706

Suction Fittings

Kolling manufactures a wide range of suction fittings for various applications such as portable fire pump, water relay and fire engines. These fittings are suitable for use in drawing water from hydrant, river, pond and sea.

Suction Hose Coupling

Code	SF 1200		
Size	75mm	100mm	140mm
Thread	BS Round Thread		
Manufacture to	BS 336		
Material	Copper Alloy / Aluminium Alloy		

Suction Hose Coupling Wrench

Code	SF 1201
Material	Mild Steel Galvanised / EPE Powder Coated
Manufacture to	BS 336

Metal Suction Strainer

Code	SF 1202		
Size	75mm	100mm	140mm
Material	Copper Alloy / Aluminium Alloy		
Manufacture to	BS 336		

Basket Strainer

Code	SF 1203		
Size	75mm	100mm	140mm
Material	Cane		
Manufacture to	BS 336		

Suction Adaptor

Code	SF 1205
Connection	100mm Female Round Thread x 65mm Male Instantaneous
Material	Copper Alloy / Aluminium Alloy
Manufacture to	BS 336

Suction Stand

Code	SF 1207
Material	Mild Steel / EPE Powder Coated
Finishing	Red

Coupling Opener

Code	SF 1209
Material	Mild Steel Galvanised / EPE Powder Coated

Suction Hose

Code	SF 1210		
Material	PVC		
Assembly Length	2.5M (8.4ft)		
Size	75mm (3")	100mm (4")	140mm (5 1/2")

General Specification

Material
: Aluminium Alloy to BS 1490 Copper Alloy to BS 1400
Working Pressure
: 15 bar (217 psi)
Test Pressure
: 22.5 bar (327 psi)

Other inlet and outlet connection are available upon customer requirement.

Suction Collecting Heads

Collecting units are used to combine two water feeds and Dividing units are to split a single line into two.
Kolling Suction Collecting Heads are available in radial pattern , angle pattern and in-line pattern. In-line and angle pattern suction collecting heads are fitted with swivel outlet . The radial pattern are fitted with fixed outlet. All inlet are Male Instantaneous to BS 336 with non-return valve.

General Specification for Suction Collecting Heads.

Body, Inlet, Swivel : Aluminium Alloy to BS 1490 or Copper Alloy to BS 1400
Working Pressure : 15 bar (217 psi)
Test Pressure : 22.5 bar (326 psi)

Code	Description	Inlet	Outlet
DC 703	Two Way Suction Collecting Head	2 x 65mm Male Inst. to BS 336	1 x 100mm Round Thread Female to BS 336(Swivel)
DC 704	Three Way Suction Inline Collecting Head	3 x 65mm Male Inst. to BS 336	1 x 100mm Round Thread Female to BS 336(Swivel)
DC 705	Four Way Suction Inline Collecting Head	4 x 65mm Male Inst. to BS 336	1 x 100mm Round Thread Female to BS 336(Swivel)
DC 706	Three Way Suction Radial Collecting Head	3 x 65mm Male Inst. to BS 336	1 x 100mm Round Thread Female to BS 336(Fixed)

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DC 700

DC 701

DC 702

DC 711

DC 712

Dividing And Collecting Breechings

Kolling collecting unit used to combine two water feeds and dividing units to split a single line into two. Kolling collecting breechings has one female outlet and two male instantaneous inlets to BS 336 and the dividing breeching has two female outlets and one male instantaneous inlet to BS 336.

General Specification

Body Inlet : Aluminium Alloy to BS 1490
Copper Alloy to BS 1400
Working Pressure : 15 bar (217 psi)
Test Pressure : 22.5 bar (326 psi)

Other inlet and outlet connection are available upon customer requirement.

Code	Description	Inlet	Outlet
DC 700	2 1/2" (65 mm) standard dividing breeching	1 x 2 1/2" (65mm) male instantaneous to BS 336	2 x 2 1/2" (65mm) female instantaneous to BS 336
DC 701	2 1/2" (65 mm) standard collecting breeching	2 x 2 1/2" (65mm) male instantaneous to BS 336	1 x 2 1/2" (65mm) female instantaneous to BS 336
DC 702	2 1/2" (65 mm) dividing breeching with control valve	1 x 2 1/2" (65mm) male instantaneous to BS 336	2 x 2 1/2" (65mm) female instantaneous to BS 336
DC 702 NH	2 1/2" (65 mm) dividing breeching with control valve	1 x 2 1/2" (65mm) female NHT (Swivel)	2 x 2 1/2" (65mm) male NHT
DC 711	2 1/2" (65 mm) dividing breeching with ball valve control	1 x 2 1/2" (65mm) male instantaneous to BS 336	2 x 2 1/2" (65mm) female instantaneous to BS 336
DC 712	2 1/2" (65 mm) dividing breeching with ball valve control	1 x 2 1/2" (65mm) female NHT (Swivel)	2 x 2 1/2" (65mm) male NHT

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BP 401

BP 402

BP 403

Branchpipes Nozzles

Kolling manufactures a wide range of branchpipes and nozzles for hydrant system, water and foam system.
All models manufactured with 65mm Male Instantaneous connection to BS 336.
Other standard fittings or adaptors are available upon customers requirement.

General Specification

Body : Aluminium Alloy to BS 1490
Copper Alloy to BS 1400
Connection Inlet : 2 1/2" (65mm) Male Instantaneous to BS 336
Other inlet connections are available upon customer requirement.

Code	Size	Description
BP401	2 1/2"(65mm)	Jet nozzle with branchpipe
BP402	2 1/2"(65mm)	Diffuser nozzle (Jet/Spray)
BP403	2 1/2"(65mm)	Diffuser nozzle with branchpipe (Jet/Spray)
BP406	2 1/2"(65mm)	Fog nozzle with branchpipe
BP407	1 1/2"(38mm)	Jet/Spray nozzle with branchpipe
SPP9524	2 1/2"(65mm)	Pistol grip nozzle

BP 406

BP 407

SPP 9524

FB 225

FB 450 P

Foam Branchpipe & Inductor-Low Expansion

Kolling low expansion foam branchpipe are suitable for use in hydrocarbon fire and it has an adjustable variable valve from 0% to 6%. There are two types. one with integral inductor, pick up tube and piercer while other is without pick up tube for premix foam, suitable for polar solvent, AFFF and protein foam.

General Specification

Material : Aluminium Alloy
Expansion Ratio : 15 x
Inlet : 2 1/2" (65mm) male instantaneous to BS 336
Working Pressure : 5-10 bar

Code	Description	Induction Rate
FB 225	225 Lt Premixed Foam Branchpipe at 7 bar	-
FB 450 SI	450 Lt Foam Branchpipe c/w Pick Up Tube and stainless steel piecer.	3 or 6%
FB 450 P	450 Lt Premixed Foam Branchpipe at 7 bar	-
FB 225 SI	225 Lt Foam Branchpipe c/w Pick Up Tube and stainless steel piecer.	3 or 6%
FB 450 XP	450 Lt Foam Branchpipe c/w Pick Up Tube and stainless steel piecer and adjustable variable valve.	0 or 6%
FB 225 XP	225 Lt Foam Branchpipe c/w Pick Up Tube and stainless steel piecer & adjustable variable valve.	0 - 6%

Code	Description	Material	Induction Rate
VI 225	225 Lt Variable Foam Inductor c/w Pick Up tube & Stainless steel piercer	Copper Alloy To BS 1400	0 - 6%
VI 450	450 Lt Variable Foam Inductor c/w Pick Up tube & Stainless steel piercer	Copper Alloy To BS 1400	0 - 6%

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FB 450 SI

FB 225 SI

FB 225 XP

VI 225/450

SPP 600

SPP 888

Foam / Water Monitor

Kolling manufactures monitor for water and foam application. These monitors are suitable for use in petrol chemical , refineries , storage tank and off shore platform .There are two types of monitor , fixed and portable .

General Specification

Waterway : Bronze or Brass , 2 1/2" (65mm) or 3" (75mm)
Rotation : 360deg.with locking device
Elevation : 15 deg. through 75 deg
Inlet : 2 1/2", 3" or 4" flanged or threaded.
Flow Rate : Nozzle available from 675 lt., 1350 lt., 2700 lt and 4000 lt/min.
Handle : Stainless Steel
Working Pressure : 10 bar (150 psi)
Test Pressure : 22.5 bar (326 psi)

Code	Performance
SPP 150N	675Lt at 7 bar
SPP 300N	1350Lt at 7 bar
SPP 600N	2700Lt at 7 bar
SPP 888N	4000Lt at 7 bar

Performance Data for Nozzle

Pressure at inlet of nozzle	jet	30^{0}Fog	120^{0}Fog	155^{0}Fog
7 bar (100psi)	194'(59m)	138'(42m)	69'(21m)	40'(12m)
10 bar (150 psi)	208'(63m)	152'(46m)	76'(23m)	56'(17m)

SPP 600P

SPP 300N

SPP 600 SI

Mobile Foam Unit

The Kolling Mobile Foam Unit is highly deployable fire protection apparatus designed for operation by one person. Connection to a suitable water source , such as fire pump or pressurized fire hydrant valve using a fire hose connected to inlet of inductor while another to the inlet of the low expansion foam branchpipe , the unit is ready for use.
It is suitable for use in boiler room , fuel storage tank , hangar , power plant and petrol chemical plants. The inductor comes with an adjustable variable valve 0-6% for various foam compound.

General Specification

Trolley : Steel EPE Powder Coating
Tank : Fibre glass or Stainless Steel
Inductor : 0-6% at 225 litre/min
Foam Branchpipe : Aluminium Alloy male instantaneous connection to BS 336
Hose : Two lengths of 38mm x 15metre fire hose

Code	Description
MFS-FG-140	Fibreglass tank with standard equipment
MFS-SS-140	Stainless steel tank with standard equipment

Input Pressure (Bar)	Total Water Flow (Lt/min)	Approx Running Time inductor Setting 3%	6%	Approx Foam Throw branchpipe (low expansion)
5	182	22	11	15
7	215	18	9	18
10	225	16	8	20

MFS-FG-140

Due to our continuous research and development for product improvement specifications subject to change without prior notice.

Adaptors and Blank Caps

Kolling manufactures a wide range of adaptors. These adaptors are used to connect one size to another or from male to female, or from one standard system to another standard. Kolling standard adaptors are to BS 336, other standard connections are also available.

General Specification

Manufactured to : BS 336
Material : Aluminium Alloy to BS 1490
Copper Alloy to BS 1400

Code	Description
AD 201	Double Male Instantaneous
AD 202	Double Female Instantaneous
AD 203	Male Screw x Female Instantaneous
AD 204	Female Instantaneous x Male Instantaneous
AD 205	Female Instantaneous x Female Screw
AD 206	Male Instantaneous x Male Screw
AD 207	Male Screw x Male Screw
AD 208	Female Screw x Male Instantaneous
AD 209	Female Screw x Male Screw
AD 210	Male Instantaneous x Hermaphrodite
AD 211	Male Instantaneous x Male NHT/NPT
AD 212	Male Screw Thread x Hermaphrodite
AD 213	Female Screw Thread x Hermaphrodite
AD 214	19mm/25mm Serratted x Male Instantaneous
AD 215	Male Instantaneous x Serratted
AD 216	Elbow For Nozzle
AD 217	Female Round Thread x Male Instantaneous
AD 218	Female Instantaneous x Male Round Thread
AD 219	Female Screw x Male Round Thread
AD 220	Female Suction x Female Round Thread
AD 221	Male Round Thread Suction x Male Round Thread
AD 222	Male Round Thread x Female Instantaneous
AD 223	Male Instantaneous x Male Round Thread
AD 224	Screw x N & S
AD 225	Flanged x Male Instantaneous
AD 226	Flanged x Female Instantaneous
AD 227	Flanged x Female Round Thread
AD 228	Flanged x Male Round Thread
AD 229	Flanged x Hose Tail
AD 230	Female Instantaneous x Female Round Thread (With Ball Valve)
AD 231	Hydrant Adaptor Bayonet x Male Round Thread
AD 232	International Shore Connection x 65mm Male Instantaneous
AD 233	21/2" Gooseneck

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Kolling female caps and male plugs are fitted to inlet or outlet connection to protect against damage. There are available for instantaneous, round thread, and other thread forms. These blank caps and plugs are made of aluminium Alloy to BS 1490, copper alloy to BS 1400 and Plastic.

Code	Description
BC 1300	65mm Instantaneous Male
BC 1301	65mm Instantaneous Female Single Twist Release
BC 1301B	65mm Instantaneous Female Double Pull Release
BC 1302	100mm Male Screw
BC 1303	65mm Female Screw
BC 1304	Instantaneous Male Black Cap With Pressure Gauge & Release Valve
BC 1304 B	In-Line Flow Gauge
BC 1305	Piezometer
BC 1306	Female NH Cap
BC 1307	Male NH Cap

Other types of adaptors and blankcaps are available upon customer requirement

HC 906

HC 908

HC 909

HC 910

Delivery Hose Couplings

Kolling Delivery Hose Couplings are manufactured to BS336 with Instantaneous connection.

General Specification

Connection : Female Instantaneous to BS 336, Male Instantaneous to BS 336
Material : Aluminium Alloy to BS 1490, Copper Alloy to BS 1400

Other standard hose coupling size are available upon customer requirement.

Code	Description
HC901-38	1 1/2" (38mm) Multi-Serrated x 2 1/2" (65mm) Instantaneous
HC901-45	1 3/4" (45mm) Multi-Serrated x 2 1/2"(65mm) Instantaneous
HC901-50	2" (50mm) Multi-Serrated x 2 1/2"(65mm) Instantaneous
HC901-65	2 1/2" (65mm) Multi-Serrated x 2 1/2"(65mm) Instantaneous
HC901-70	2 3/4" (70mm) Multi-Serrated x 2 1/2"(65mm) Instantaneous
HC902-38	1 1/2" (38mm) Double Ribbed x 2 1/2"(65mm) Instantaneous
HC902-45	1 3/4" (45mm) Double Ribbed x 2 1/2"(65mm) Instantaneous
HC902-50	2" (50mm) Double Ribbed x 2 1/2"(65mm) Instantaneous
HC902-65	2 1/2" (65mm) Double Ribbed x 2 1/2"(65mm) Instantaneous
HC902-70	2 3/4" (70mm) Double Ribbed x 2 1/2"(65mm) Instantaneous
HC904-38	1 1/2" (38mm) Multi-Serrated x 2 1/2"(65mm) NHT Coupling
HC904-65	2 1/2" (65mm) Multi-Serrated x 2 1/2"(65mm) NHT Coupling
HC905-38	1 1/2" (38mm) Multi-Serrated x 1 1/2"(38mm) NHT Coupling
HC906	Nozzle Spanner
HC907-38	1 1/2" (38mm) Multi-Serrated x 1 1/2"(38mm) Instantaneous
HC908	E-Spanner Wrench
HC909	Adjustable Hydrant / Spanner Wrench
HC910	Emergency Outlet for Hydrant

Kolling manufactures a wide range of steel cabinet for installation of fire hose reel, extinguisher, hose, hydrant valve and safety equipment.

General Specification

Material : Mild Steel, Stainless Steel and GRP
Lock : Camlock, Spring lock with key or latch without key, cabinet with breakglass is provided for key.

Cabinet of other design and dimension are available to customer requirement.

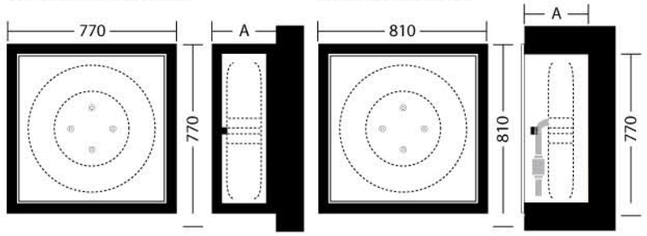
Door Mounted Fixed Type Cabinet

General Specification

Material : 1.5 Mild Steel, Stainless Steel
Type : 1"(25mm) or 3/4"(19mm) Manual or Automatic Fixed Hose Reel
Overall Dimension : 770mm (W) x 770mm (H) x Dimension A (Depth)
Finishing : EPE Powder Coating Red

Code	Dimension A (Depth) mm	Type
C301-505-S25-360	360	Recessed
C301-524-S19-230	230	Recessed
C301-522-S25-230	230	Recessed
C302-526-S25-230	230	Surface/wall Mounted
C302-525-S19-230	230	Surface/wall Mounted
C302-525-S19-250	250	Surface/wall Mounted

Surface/Wall Mounted



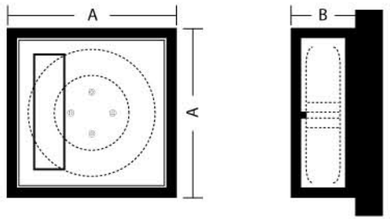
Recessed Mounted

Hose Reel Cabinet

General Specification

Material : 0.9 Mild Steel
Finishing : EPE Power Coating Red

Code	Dimension A (Width) mm	Dimension B (Depth) mm
C305-536-S25-320	790	320
C305-501-S25-400	750	400



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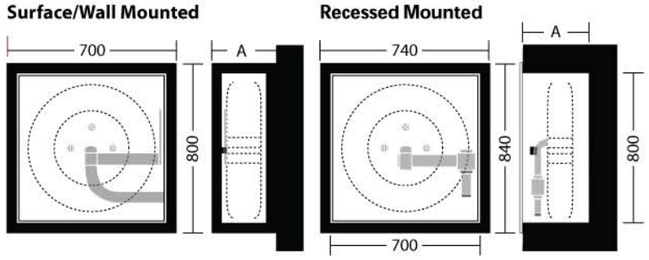
Recessed Hose Reel Cabinet

General Specification

Material : 1.2 Mild Steel, Stainless Steel
Type : 25mm (1") or 19 (3/4") Manual or Automatic Swing Hose Reel
Overall Dimension : 700mm (W) x 800mm (H) x Dimension A (Depth)
Finishing : EPE Powder Coating Red

Code	Dimension A (Depth)mm	Type
C303-521-S25-400	400	Recessed
C303-523-S19-340	340	Recessed
C303-533-S25-340	340	Recessed
C304-523-S25-400	400	Surface/wall Mounted
C304-533-S19-320	320	Surface/wall Mounted
C304-533-S25-340	340	Surface/wall Mounted

Surface/Wall Mounted **Recessed Mounted**



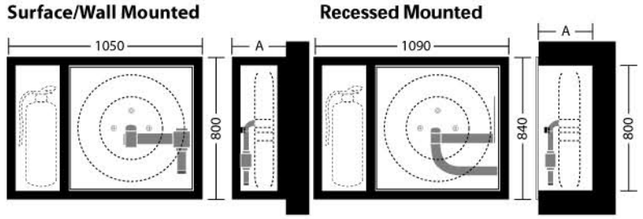
Recessed Hose Reel Cabinet With Extinguisher

General Specification

Material : 1.2 Mild Steel, Stainless Steel
Type : 25mm (1") or 19 (3/4") Manual or Automatic Swing Hose Reel & 1 No. 9kg Fire Extinguisher
Overall Dimension : 1050mm(W) x 800mm(H) x Dimension A (Depth)
Finishing : EPE Powder Coating Red

Code	Dimension A (Depth) mm	Type
C306-521-S25-400	400	Recessed
C306-523-S19-340	340	Recessed
C306-533-S19-320	320	Recessed
C307-523-S25-400	400	Surface/wall Mounted
C307-533-S19-320	320	Surface/wall Mounted
C307-533-S25-340	340	Surface/wall Mounted

Surface/Wall Mounted **Recessed Mounted**



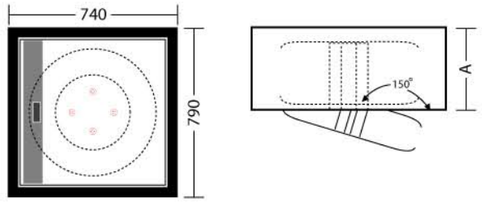
Pivot Type Hose Reel Cabinet

General Specification

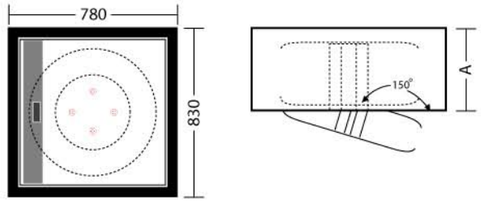
Material : 1.5 Mild Steel, Stainless Steel
Type : 25mm (1") or 19mm (3/4") Manual or Automatic Fixed Hose Reel
Overall Dimension : 740mm (W) x 790mm(H) x Dimension A (Depth)
Finishing : EPE Powder Coating Red

Code	Dimension A (Depth) mm	Type
C308-525-S25-420	420	Recessed
C308-517-S25-450	450	Recessed
C309-501-S25-420	420	Surface/wall Mounted
C309-524-S25-450	450	Surface/wall Mounted

Surface/Wall Mounted



Recessed Mounted



Hose Cabinet

General Specification

Material : 0.9mm Mild Steel, Stainless Steel and GRP
Type : 2 Lengths 2 1/2" x 30m Hose & 1 nos nozzle
Overall Dimension : 570mm (W) x 1150mm(H) x 330mm (D)
Finishing : EPE Powder Coating Red
Code : ME 606

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Wall Mounted 9 kg Extinguisher Box

General Specification

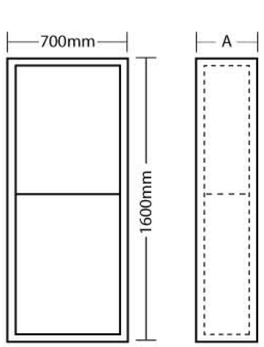
Material : 0.9mm Mild Steel, Stainless Steel and GRP
Size : 280mm (W) x 710mm (H) x 280mm(D)
Finishing : Red EPE Powder Coated

Double Compartment Cabinet

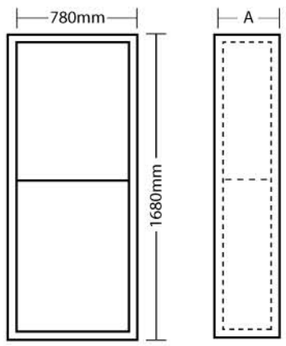
General Specification

Material : 1.2m Mild Steel, Stainless Steel
Capacity : 25mm (1") or 19mm (3/4") Manual or Automatic Swing Hose Reel and 2 nos Fire Extinguisher.
Overall Dimension : 1600mm (H) x 700mm (W) x Dimension A Depth
Finishing : Red EPE Powder Coated

Code	Demension A (Depth)mm	Type
C310-501-S25-400	400mm	Recessed
C310-537-S25-360	360mm	Recessed
C310-533-S25-320	320mm	Recessed
C311-536-S19-300	300mm	Surface/wall Mounted
C311-523-S25-400	400mm	Surface/wall Mounted
C311-523-S19-320	320mm	Surface/wall Mounted



Surface/Wall Mounted



Recessed Mounted

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Miscellaneous Equipment

Code	Description
RE 101	Padlock Remover
RE 102	Persuader
RE 103	Bending Bar
RE 104	Spreader & Tommy Bar
RE 105	Ceiling Hook
RE 106	Fire Beater - Rattan Type
RE 107	Ram Bar
RE 108	Cellar Pipe
RE 109	4 lb Pickhead Firemen Axe
RE 110	20 lb Hammer with Wooden Handle
RE 111	36"/48" Steel Crowbar
RE 112	20,000 Volt Firemen Axe with Rubber Insulated Handle
RE 113	Pouch & Belt
RE 114	Machete 18" with Leather Cover
RE 115	Grapping Iron with Rope
RE 116	Pick with Handle
RE 117	Spade with Handle
RE 118	30" Bolt Cutter
RE 119	Hose Sling
RE 120	4 lb Flat Head Firemen Axe
RE 121	False Spindle
RE 122	Fireman Glove

RE 101

RE 102

RE 106

ME 107

RE 115

RE 122

RE 121

RE 119

MISCELLANEOUS

ME 601

ME 602

ME 605

ME 625

Miscellaneous Equipment

Code	Performance
ME 601	Hose Ramp
ME 602	Hose Bandage
ME 605	Hand Operated Siren with Stand
ME 609	Hand Operated Alarm Bell
ME 625	Hydro Shield
KM 133	Deep Nozzle For Peat Fire
KM 622	Electric Hose Binding Machine

KM 622

Type 1 Hose

Tornado Fire Hose, Type 1
- Internal rubber lining combine with closely Woven Polyester Fibre.
- Direct vulcanisation, high adhesion between jacket and lining.
- Standard length: 30 meter.
- Manufactured to BS 6391 Type 1.
- Working Pressure: 10 bar, 13 bar and 16 Bar.

Type 3 Hose

Syntex Unidur Fire Hose, Type 3
- High-quality special Synthetic Rubber or Nitrile. or PVC.
- Extruded through the weave.
- Very smooth for minimum friction loss.
- Longtitudinal ribs in the External covering for high abrasion-resistance.
- Standard colour: RED others on request.
- Manufacture to BS 6391 Type3.

Due to our continuous research and development for product improvement specifications subject to change without prior notice.

It is the goal of Kolling to provide quality fire equipments and components to meet the needs of the fast growing market and achieve the highest satisfaction of our customer at all times.

Kolling is an ISO 9001:2008 certified company. Through inculcating the culture of operations an effective quality management system and product listing scheme, Kolling products meets and conform to International Standards requirement.

Our manufacturing plant is equipped with modern CNC lathe, Milling, Press brake, turret punch, induction furnace, high pressure die-casting, hot forging, EPE powder coating system, machinery for production of semi-rigid fire hose reel hose and facilities for products testing. These facilities are use to manufacture Kolling fire fighting equipment to accuracy and compliance to the standards.

Flow calibration for continuous research and development of products.

Foundry Products

Hot Forging for Brass Components

EPE Powder Coating

Fabricating of steel cabinet with CNC press brake and CNC turret punch.

Using high precision CNC milling for manufacturing components & parts.

Induction Furnance

Smelting of Copper Alloy

High Pressure Die-Casting for Aluminium Alloy Components

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