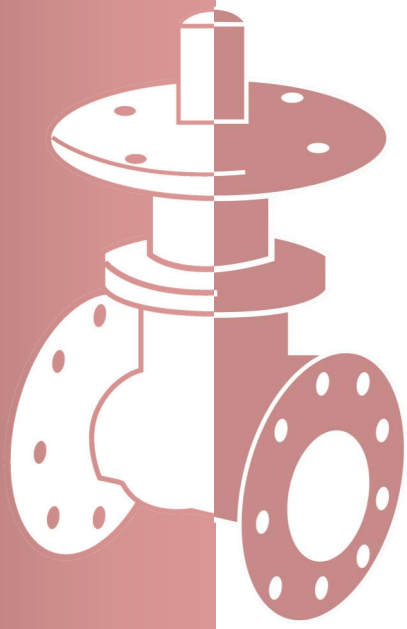
BRISTOL



Fire Fighting Equipment

Valves, Fire Hose, Fire Cabinets, Hydrants

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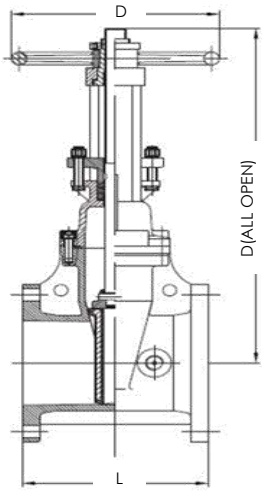
Gate Valves

Gate Valves are valves that open by lifting a round or rectangular gate/wedge out of the path of the fluid. They are characterized as having either a rising or a non-rising stem. BRISTOL Gate Valves are made of high quality materials and conform to international and local standards



Specification

Design Standard ..... AWWA C515 / BS 5163 / UL 262

Working Pressure 300psi

Type .....Outside Stem & Yoke - Resilient Seated Wedge

Connection Type ..... Flange EN 1092 PN16 / ANSI B16.1 Class 125 / ANSI B16.5 Class 150

Finishing: ..... Fusion Bonded Epoxy Coated Interior and Exterior RAL3002

Materials

Boidy..... Ductile Iron ASTM A536 65-45-12

Wedge: ..... Ductile Iron ASTM A536 65-45-12 + EPDM

Wedge Nut: ..... Stainless Steel AISI 304

Gasket: ..... EPDM

Packing: ..... Graphite

Handwheel: ..... Ductile Iron ASTM A536 65-45-12

Outside Stem & Yoke

MODEL	399F							
Size Options	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
L (mm)	191	203	229	254	267	292	330	356
H (mm)	418	488	538	654	740	935	1126	1126
H1 (mm)	350.5	405.5	436	528	591	730	871	1011
D (mm)	183	253	253	306	306	355	445	445

UL LISTED

FM APPROVED

Non Rising Stem

MODEL Series	399F							
Size Op-	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
L (mm)	191	203	229	254	267	292	330	356
H (mm)	203.5	232	251	320	351.5	435	535	616
H1 (mm)	295	323	342	408	440	537	640	723
D (mm)	305	305	305	305	305	305	305	305

UL LISTED EX16103

FM APPROVED

Gate Valves Accessories

LISTED EX16104

FM APPROVED

Non-Rising Stem Gate Valves alone cannot be identified if open or closed by visual inspection. Accessories such as indicator posts are necessary to supervise these valves. BRISTOL Indicator Posts complement BRISTOL NRS Gate Valve but are also compatible to other gate valves of the same standards.

Indicator Post, UL Listed, FM Approved

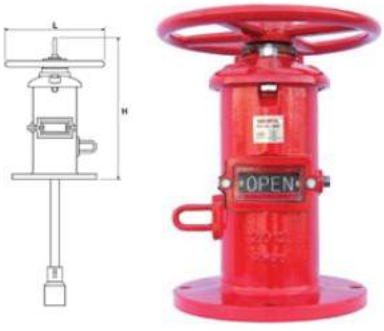
Specification

Design Standard: .....ANSI/UL 789

Orientation: ..... Wall Post

Body: ..... Ductile Iron ASTM A536

Finishing: ..... Fusion Bonded Epoxy Coated Interior and Exterior RAL3002



W388

G388

Dimension

MODEL Series	G388	W388
Type	Ground Post	Wall Post
H1	1002mm	355mm
H2	450mm	506mm

Butterfly Valve

Butterfly Valves are valves which can be used for isolating or regulating flow, with the closing mechanism in the form of a disk. BRISTOL Butterfly Valves are supervised and can be used for in-door and outdoor application.

LISTED EX16012

FM APPROVED

Wafer Type

Specifications

Design Standard: ..... UL 1091
Working Pressure: ..... 300psi & 175psi
Type: ..... Wafer Type - Gear Actuated - Supervised (2xSPDT)
Connection Type: ..... Suitable for ANSI / EN / BS / DIN Flanges

Materials

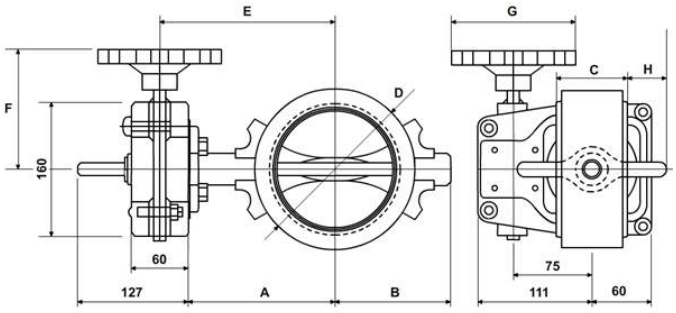
Body: ..... ASTM A-536 Nylon-11 Coated
Disc: ..... ASTM B-536 EPDM Encapsulated
Upper/Lower Stem: ..... AISI 420-SS
Worm Gear Shaft: ..... AISI 410-SS
Housing: ..... ASTM A-536
Handwheel: ..... ASTM A-536
Flag Indicator: ..... ASTM A-536
Shear Pin: ..... ASTM A-536
Segment Gear: ..... ASTM B-148 or B-584
Housing Gasket: ..... EPDM Grade E
O-Ring: ..... EPDM Grade E

Dimension

MODEL	BR-HPW-300				
Size Options	DN65	DN80	DN100	DN150	DN200
A (mm)	106	112	145	180	204
B (mm)	85	92	108	146	170
C (mm)	46	46	52	56	60
D (mm)	92	107	128	181	234
E (mm)	135	142	175	210	234
F (mm)	135	135	135	193	193
G (mm)	125	125	125	225	225
H (mm)	10	16	25	45	69

Dimension

MODEL	BR-DW-175				
Size Options	DN65	DN80	DN100	DN150	DN200
A (mm)	136	143	156	188	222
B (mm)	87	93	107	144	166
C (mm)	46	46	52	56	58
D (mm)	149	168.2	200	270	330
E (mm)	166	173	186	218	252
F (mm)	135	135	135	222	222
G (mm)	128	128	128	222	222
H (mm)	8	15	23	44	69



Groove Type

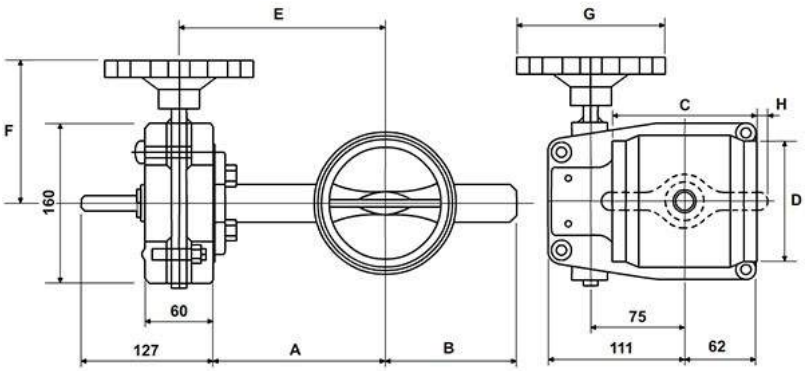
MODEL Series	BR-DG-175				
Size Options	DN65	DN80	DN100	DN150	DN200
A (mm)	106	112	145	180	204
B (mm)	85	92	108	146	170
C (mm)	95	96	114	133	148
D (mm)	73	83.9	116	168	219
E (mm)	135	142	175	210	232
F (mm)	135	135	135	193	193
G (mm)	125	125	125	225	225
H (mm)	-	-	-	7	24

Specifications

Design Standard: ..... UL 1091
Working Pressure: ..... 300psi & 175psi
Type: ..... Gear Actuated - Supervised (2xSPDT)
Connection Type: ..... Grooved AWWA C606

Materials

Body: ..... ASTM A-536 Nylon-11 Coated
Disc: ..... ASTM B-536 EPDM Encapsulated
Upper/Lower Stem: ..... AISI 420-SS
Worm Gear Shaft: ..... AISI 410-SS
Housing: ..... ASTM A-536
Handwheel: ..... ASTM A-536
Flag Indicator: ..... ASTM A-536
Shear Pin: ..... ASTM A-536
Segment Gear: ..... ASTM B-148 or B-584
Housing Gasket: ..... EPDM Grade E
O-Ring: ..... EPDM Grade E



MODEL Series	BR-HPG-300				
Size Options	DN65	DN80	DN100	DN150	DN200
A (mm)	106	112	145	180	204
B (mm)	85	92	108	145	170
C (mm)	96	96	115	132	147
D (mm)	73	83.9	114.3	168.3	219.1
E (mm)	136	142	173	209	234
F (mm)	128	128	128	220	220
G (mm)	128	128	128	220	220
H (mm)	-	-	-	7	24

BR-HPG-300

Non-Return / Check Valve

Swing Type

LISTED EX16011

FM APPROVED

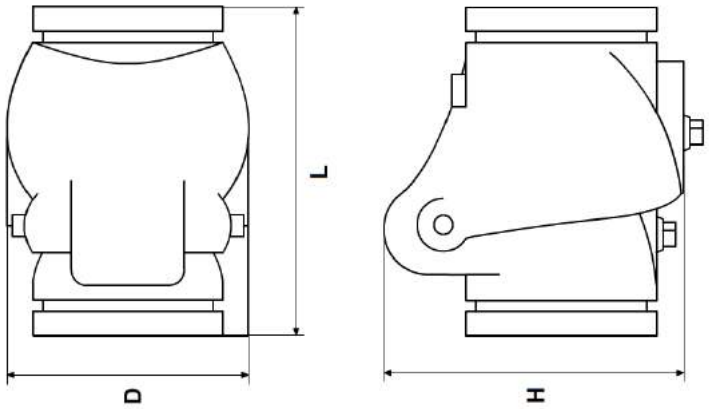
Non-Return Valves or Check Valves are valves that normally allow fluid to flow through it in only one direction. BRISTOL Check Valves are swing type with a tilted clapper. BRISTOL Check Valves clapper design produces quick, non-slam closure before flow reversal can occur meeting the FM requirements for an anti-water hammer valve rating.

Specifications

Approval:	ANSI/UL 312
Working Pressure:	300psi
Type	Swing Type
Connection Type	Grooved AWWA C606
Finishing:	Fusion Bonded Epoxy Coated Interior and Exterior RAL3002

Materials

Body:	Ductile Iron ASTM A536 Epoxy Coated
Clapper:	Stainless Steel ASTM A167 (2"-5")
	Ductile Iron ASTM A536 65-45-12 (6"-8")
Clapper Facing:	EPDM Grade E
Seat Ring:	Stainless Steel ASTM A213
Spring:	Stainless Steel ASTM A313
Hinge Pin:	Stainless Steel ASTM A580
Hinge Pin Bushing:	Sintered Bronze ASTM B438
Drain Plug:	Cast Iron ASTM A126 Class A



Dimension

MODEL		BR-DGC-300					
Inlet/Outlet D_N	in	2.00	2.50	3.00	4.00	6.00	8.00
	mm	50	65	80	100	150	200
L	in	6.75	7.25	7.75	8.12	12.75	14.37
	mm	171	184	197	205	324	365
H	in	5.43	5.69	6.06	8.38	11.00	13.07
	mm	144	153	160	187	279	331
D	in	4.38	4.50	4.73	6.00	8.50	10.00
	mm	111	114	125	152	216	250

Other Valves

Test and Drain Valve

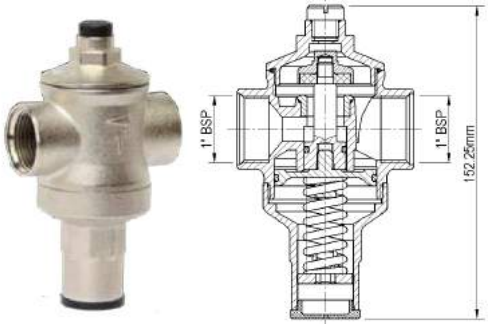
UL listed, FM Approved

LISTED EX15983

FM APPROVED

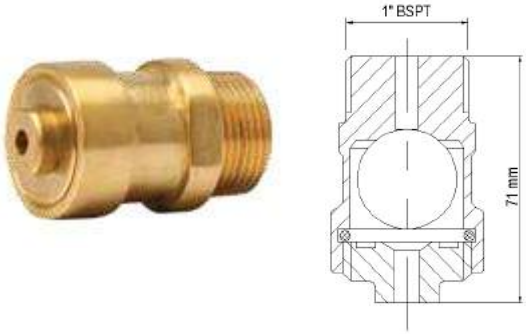
MODEL	BF-VT001
Coupling	1" M NPT X 1" F NPT
Body Material	Brass
Working Pressure	175psi

Pressure Reducing Valve



MODEL		BFE06068
Inlet/Outlet	D_N	1"
	Type	M BSPT
Body Material		Brass / Chrome Plated
Working Pressure		16bar
Test Pressure		24bar

Air Release Valve



MODEL	BFE090203
Coupling	M BSPT
Body Material	Brass

Y Strainer

Y-Strainers are used in straining debris from pipelines. They are fitted in the field with nipples and drain valves to permit the strainer screen to be cleaned while the system is still in process. BRISTOL Y-Strainers are compact and economical while also adhere to international and local standards.

FM APPROVED

UL LISTED EX16208

Flanged Type
BFE70FF

Flanged X Grooved Type
BFE70FG

Grooved Type
BFE70GG

Specifications

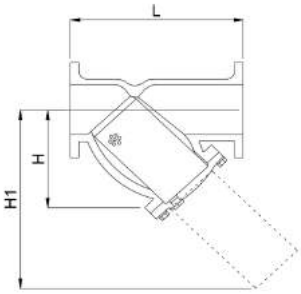
Design Standard:	UL Subject 321
Working Pressure:	300psi
Type:	Basket Type @Y@ Strainer
Connection Type:	Flange EN 1092 PN16 / ANSI B16.1 Class 125 / ANSI
(Flanged Type)	B16.5 Class 150
(Flanged x GroovedType)	Inlet Coupling —> Flange ANSI 125
	Outlet Coupling —> Groove AWWA C606~
(Grooved Type)	Groove AWWA C606 (Inlet & Outlet)

Materials

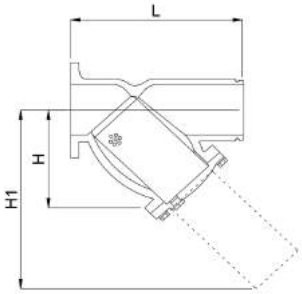
Body:	Ductile Iron ASTM A-536 Grade 65-45-12
Cover:	Ductile Iron ASTM A-536 Grade 65-45-12
Screen:	Stainless Steel AISI 304
Gasket:	EPDM
Plug:	Carbon Steel

Dimension

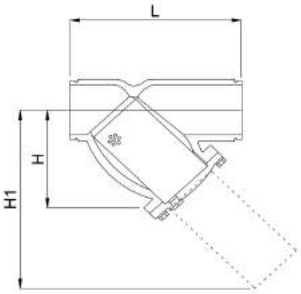
MODEL Series	BFE70FF / BFE70FG / BFE70GG								
Size Options	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
Approximate Head Loss	7.22psi @ 157.63gpm	5.89psi @ 224.86gpm	8.24psi @ 347.53gpm	5.88 @ 598.54gpm	7.63psi @ 940.70gpm	4.82psi @ 1358.85gpm	5.83psi @ 8405.84gpm	7.25psi @ 3795.17gpm	5.73gpm @ 5442.11gpm
L (mm)	203	254	260	308	398	472	550	654	762
H (mm)	132	158	175	202	290	334	391	460	590
H1 (mm)	195	240	270	320	425	495	570	700	840
Mesh Hole (mm)	3.4	3.4	3.4	4.9	4.9	6.0	6.6	6.6	6.6



BFE70FF



BFE70FG



BFE70GG

Fire Hoses

Fire Hoses are high pressure hoses that carry water or other fire retardant such as foam from the supply to the fire to be extinguished. BRISTOL Fire Hoses compliance comes in different sizes, length and assemblies, and comply to both international and local standards. BRISTOL also offers accessories that complement these hoses.

UL Listed, w/ Aluminum Coupling

BRISTOL Fire Hoses are made with polyester and its inner-lining with EPDM to ensure low friction loss and maximum flow while maintaining

high durability.

Features

- Strong and Highly Protected
- Abrasion and puncture resistant
- Chemical Resistance
- Resists contact with oil, hydrocarbons, alkalis, salt water, etc
- Weather Resistance
- Outstanding performance in extreme weather (-20oC to 50oC)
- Ease of Maintenance
- No drying needed as hose is mildew and rot proof

Specifications

Inlet Diameter & Type :..... 2 1/2" Male Instantaneous BS336

Outlet Diameter & Type : ..... 2 1/2" Females Instantaneous BS336

Coupling Material : ..... Aluminum

Hose-Coupling Connection:.....Wired

Length :.....30m

Material:..... Polyester

Inner Lining:..... EPDM

Color: ..... Red

MODEL		BF-SJ-001	BF-SJ-002	BF-DJ-001	BF-DJ-002
Diameter		1½"	2½"	1½"	2½"
Material	Jacket	Single - Polyester		Double - Polyester	
Pressure	Service Test	14bar		20bar	
	Proof Test	26bar		40bar	
	Working	13bar		18bar	
	Burst	40bar		60bar	

Accessories

Spray/Fog/Off Nozzle

Material..... Bronze Alloy ASTM B39 C83600
Mode : .... Spray/Fog/Off
Standard :..... UL 401
Material :..... Aluminum Alloy BS1490
Working Pressure :.....100psi
Test Pressure :..... 160psi

MODEL		BF-UL-001	BF-UL-002
Inlet	D_N	1½"	2½"
	Type	Female NPSH	
Maximum Flow Rate		130±5 gal/m	205±5gal/m

Accessories and Components

Coupling

Inlet Type : ..... Male Instantaneous BS336
Outlet Type :..... Male NST
Material :..... Brass

MODEL		BF-AD-000	BF-AD-001
Inlet	D_N	1½"	2½"
Outlet	D_N	1½"	2½"

Angle - Pressure Restricting Valve

Outlet Coupling Type :.....DN65 Female NPT
Valve Type :.....Pressure Restricting
Working Pressure :..... 12bar
Test Pressure :..... 24bar
Working Temperature :..... 0°C to 38°C
Body Material :..... Brass
Body Color :..... Plain Brass

MODEL	BF-HV121	BF-HV221
Standard	ANSI/UL 1468	
Inlet Coupling Type	DN40 Female NPT	DN65 Female NPT

Branch Pipe Nozzle

Material ..... Brass C3604
Fire Class Application :..... A and B only
Standard :..... UL 401
Pressure Rating :..... 200 psi
Service Pressure : 20-200psi

MODEL		BF 40	BF 65
Inlet	D_N	1½"	2½"
	Type	Female NST	
Wide Open Flow Rate @ 100psi		130gal/m	280gal/m

Semi-Automatic Pin Rack

Rack Material :.....Mild Steel
Valve Options :.....Pressure Restricting Angle Valve / Regular Angle Valve

MODEL	BFHR-250W	BFHR-250V	BFHR-150W	BFHR-150V
Hose D_N	2½"		1½"	
Rack Type	Wall Mounted	Valve Mounted	Wall Mounted	Valve Mounted

Landing Valves

Landing Valves are valves that provide hose connections to supply water for use by fire departments and those trained in handling heavy fire streams. BRISTOL Landing Valves comply to British Standards and come with threaded or flanged connection options.

KM 599357

Pressure Reducing E-Type Landing Valve

KM 599357

Oblique Flanged Landing Valve

KM 599357

Oblique Threaded Landing Valve

Technical Data

MODEL	BFE-2.5LVFP	BFE-2.5LVF	BFE-2.5LVT
Standard	BS 5041-1:1987		
Inlet Coupling Type	DN65 Flange BS4504 PN16		DN65 Male BSPT
Outlet Coupling Type	DN65 Female Instantaneous BS336		
Valve Type	"E" Type - Pressure-Reducing (4-12bar)		Oblique
Min. Flow Rate	8.5L/s @ 4.7bar		
Working Pressure	20bar		15bar
Seal Test Pressure	22bar		16.5bar
Body Strength Pressure	30bar		22.5bar
Body Thickness	4mm		3mm
Working Temperature	0°C to 38°C		
Body Material	LG2		
Body Color	RAL 3000 (Flame Red)		
Accessories	Leather Strap & Padlock		

Breaching Inlet

Bristol breeching inlets are suitable for installation on dry risers only, in a building for fire fighting purposes, fitted with inlet connection at fire brigade access.

Technical Information

Standard :..... BS 5041-3

Inlet Coupling Type : ..... DN65 Male Instantaneous BS336 with Clapper

Outlet Coupling Type:.....BS4504 Flange PN16

Inlet Material: LG2

Working Pressure :.....10bar

Test Pressure :.....20psi

Working Temperature :..... ..... 0°C to 38°C

Body Material : ..... Cast Iron

Body Color :..... RAL 3000 (Flame Red)

Accessories :..... DN25 PN16 Drain Valve

Accessory

Air Release Valve

MODEL	BFE090203
Standard	BS 5041-3
Test Pressure	24bar
Inlet Coupling Type	DN25 Male BSPT
Body Material	Brass
Body Color	Cast Brass

Available Models:

MODEL	BFE-2WBI	BFE-4WBI
Inlets	2-way	4-way
Outlet Size	DN100	DN150

KM 697821

Fire Hose Reel

Fire Hoses are high pressure hoses that carry water or other fire retardant such as foam from the supply to the fire to be extinguished. BRISTOL Fire Hoses comply come in different sizes, length and assemblies, and comply to both international and local standards. BRISTOL also offers accessories that complement these hoses.

Details

MODEL		BF-MS-001	BF-AS-002	BF-MS-003	BF-AS-004
Hose	D_N	1"		¾"	
Mechanism		Manual	Automatic	Manual	Automatic

Technical Information

Approval: ..... Kitemark Approved

Hose Size :..... 1" & 3/4"

Hose Length : 30m

Mechanism : ..... Manual & Automatic

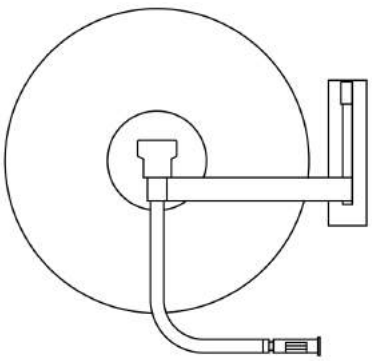
Hose Material:.....Double Braided Polyester Cord-Reinforced Rubber

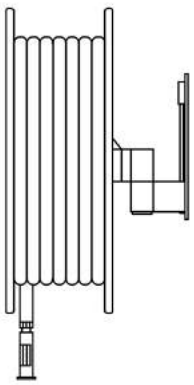
Drum Material :..... Powder Coated Mild Steel

Test Pressure :..... 300psi

Accessories Included :..... ... Nozzle, Ball Valve, Mounting Bracket

Optional Accessories : .... Lock shield Valve, Pressure-Reducing Valve





Fire Cabinets

Bristol Cabinets have an attractive and compact design with high universal quality standards. Bristol Cabinets can be surface mounted or recessed with architrave and 180° swinging action doors. and center pivot door. Bristol cabinets come in mild steel finish, stainless steel finish Aluminum finish and wooden finish.

Single Cabinet

Features

- Suitable for side or door mounted hose reel
- Suitable to fit one Bristol hose 2.5" complete withaccessories and one Bristol Landing valve 2.5"
- Suitable to accommodate one Bristol Fire hose and fire Extinguisher
- Cabinet available in solid door and with glass
- Cabinet available on surface mounted and recessed
- Cabinet available with round hinges and stainless steel hinges
- 5kg CO2 Kite Mark required cabinet with height of 85cm

Specifications

Materials:	Mild Steel / Stainless Steel
Standard Dimensions :	H700mm x W700mm x D300mm (Surface Mounted & Recessed Mounted)
	H800mm x W800mm x D300mm (Surface Mounted & Recessed Mounted)
Front Fascia:	Powder Coated / SS Brush / SS Mirror
Back Box:	Powder Coated / SS Brush / SS Mirror
Hinge:	Round Bar / SS Piano Hinges
Lock :	SS Round Latch Lock

Model Series	Type of Cabinet
BFE-CFHS	Fire Hose Cabinet
BFE-CFHR	Fire Hose Reel Cabinet

Double Vertical Cabinet

Features:

- Upper compartment fits one Bristol Hose Reel. Lower compartment can fit up to 3 nos. of either 4.5kg or 6 kg DP Extinguisher, 9 liters water / foam extinguisher or 2kg Co2 extinguisher
- Upper compartment fits one Bristol fire hose 2.5" complete with accessories and one Bristol landing valve. Lower compartment can fit up to 3nos of either4.5kg or 6kg DP extinguisher, 9 liter water / foam extinguisher or 2kg Co2 extinguisher
- Upper compartment fits one Bristol Hose Reel.
- Fits one Bristol Fire Hose 2.5" complete with accessories and one Bristol Landing Valve 2.5"
- Lower compartment of cabinet with 5kg Co2 Kite mark, and upper compartment cabinet with Hose Reel, cabinet size should be

1600mm x 800mm x 300mm. 5kg Co2 Extinguisher Kite Mark, required cabinet height of 85 cm

Description:

Specifications

Materials:	Mild Steel / Stainless Steel
Standard Dimensions :	H1400mm x W700mm x D300mm (Surface Mounted & Recessed Mounted)
	H1600mm x W800mm x D300mm (Surface Mounted & Recessed Mounted)
Front Fascia:	Powder Coated / SS Brush / SS Mirror
Back Box:	Powder Coated / SS Brush / SS Mirror
Hinge:	Round Bar / SS Piano Hinges
Lock :	SS Round Latch Lock
Options:	Fire Hose Reel & Fire Hose Cabinet
	Fire Hose Reel & Fire Fiire Extinguisher

Model Series	Type of Cabinet
BFE-CFHD	Fire Hose Reel & Fire Hose

Double Horizontal Cabinet

Specifications

Materials:	Mild Steel / Stainless Steel
Standard Dimensions :	H800mm x W1200mm x D300mm (Surface Mounted & Recessed Mounted)
	H800mm x W1200mm x D300mm (Surface Mounted & Recessed Mounted)
Front Fascia:	Powder Coated / SS Brush / SS Mirror
Back Box:	Powder Coated / SS Brush / SS Mirror
Hinge:	Round Bar / SS Piano Hinges
Lock :	SS Round Latch Lock

Features

- One Compartment house up to 2 nos. of either 4.5kg or 6kg DP Extinguisher, 9 liter. Water /Foam Extinguisher or 2kg and 5kg Co2

Extinguisher and the other compartment fits one Bristol Fire Hose complete with accessories and one 2.5" Bristol Landing Valve

- Bigger Compartment house Bristol standard Hose Reel. Small compartment suitable to fit 2 nos. of either 4.5kg or 6kg DP Extinguisher,

9 liters. Water /Foam Extinguisher or 2kg and 5kg Co2 Extinguisher. Cabinet available in solid door and with glass

- Cabinet available in solid door and wired glass

- Cabinet available on Surface mounted and Recessed

- Cabinet available with round bar hinges and SS piano hinges

- 5kg Co2 Extinguisher Kite Mark required Cabinet height of 85 cm

** Different Cabinet sizes are available upon request

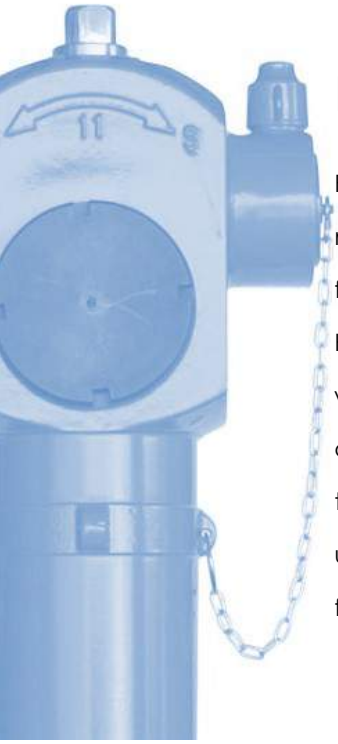
BREACHING INLET

Features

- Suitable for 2 way x 4" inlet breeching valve, or 4"way x 6" inlet breeching valve
- Cabinet available with Round bar hinges or stainless steel Piano hinges for SS Cabinet
- Breeching cabinet with wired mesh glass and rubber beading
- Cabinets available for Vertical or Horizontal position
- Standard color finished is red, alternative colors to costumer requirement on request

Specifications

Materials:	Mild Steel / Stainless Steel
Standard Dimensions :	H600mm x W600mm x D300mm (Surface Mounted & Recessed Mounted)
	H600mm x W400mm x D300mm (Surface Mounted & Recessed Mounted)
Front Fascia:	Powder Coated / SS Brush / SS Mirror
Back Box:	Powder Coated / SS Brush / SS Mirror
Hinge:	Round Bar / SS Piano Hinges
Lock :	SS Round Latch Lock



Fire Hydrants

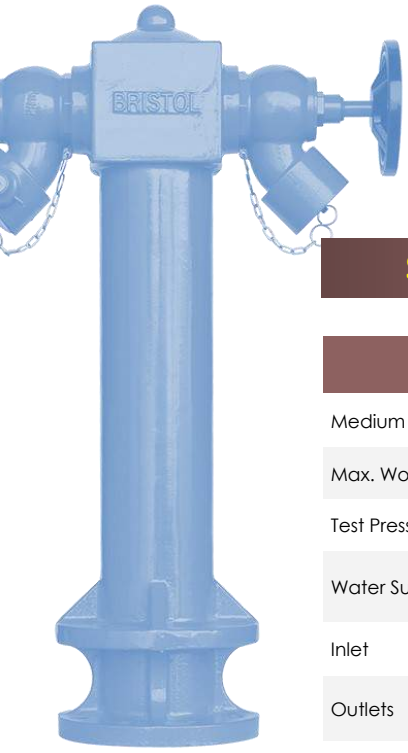
Fire Hydrants are active fire protection measures, and connection points by which fire-fighters can tap into a water supply. Fire Hydrants can be classified as Wet Barrel where it is possible to turn the water supply onand off to each port, or Dry Barrel where the body remains dry until the main valve underground is switched on – both type of-fered by BRISTOL.

WET BARREL

MODEL	BFE-WT04D	BF-WT04	BFE06
Working Pressure	16bar	10bar	
Test Pressure	20bar	20bar	
Inlet	DN100 Flange EN1092 PN16		DN150 Flange EN1092 PN16
Outlet	2x Oblique Landing Valve DN65 Female Instantaneous BS336 with Cap and Cabin		
Total Height	800mm	915mm	
Body Material	Cast Iron	Carbon Steel	
Valve Material	LG2		

DRY BARREL

MODEL		BFE04S	BFE04B	BFE06S	BFE06B
Inlet	D_N	4"		6"	
	Type	Straight Flange PN16	Bend Flange PN16	Straight Flange PN16	Bend Flange PN16
Outlet Details		2 x 2.5" F Instantaneous			
Valve Type		Globe Valve			
Standard		BS EN 14384			
Full Opening		10 ½ Turns			
Minimum Opening		2 ½ Turns			
Body Material		Cast Iron + Ductile Iron			
Working Pressure		16bar			
Test Pressure		24bar			



Six-Way Manifold Hydrant

MODEL	MH300-4S150/2S300
Medium	Water
Max. Working Pressure	15bar (218psi)
Test Pressure	30bar (435psi)
Water Supply Velocity	4m/s
Inlet	ANSI B16.5 Class 150 Flange
Outlets	4x6" Storz Connection with Butterfly Valve 2x12" Storz Connection with Butterfly Valve
Body	Carbon Steel Seamless Pipe ASTM A53 Sch.40 Gr. B
Paint	Surface Preparation to code SSPC-SP-10 "Near White Blast" 1.5 to 3.0 mills
Prime Coat Vinyl (Dry Film Thickness 35 to 100 microns)	
Finish Coat Acrylic Polyurethane (Dry Film Thickness 60 to 100 microns)	

Options	Riser Diameter	Header Diameter	Header Flow Rate
A	20"	20"	12,000gpm
B	16"	16"	8,000 - 9,000gpm
C	12"	12"	4,500gpmGet a Quote