MEP ENGINEERING
ELECTRO MECHANICAL W.L.L

MECHANICAL - ELECTRICAL - PLUMBING

الهندسية إلكترو ميكانيكال ذ.م.م

ENGINEERING ELECTRO MECHANICAL W.L.L

Tel/ Fax: (+974) 44148236, Mob: (+974) 55690066, P.O.Box: 91111 Doha – Qatar. CR.No: 26935/16
E-Mail: info@mepqatar.com Web: www.mepqatar.com

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About Us

MEP ENGINEERING ELECTRO MECHANICALwas founded in the year 2010 in Doha,Qatar. help you succeed with top, trusted brands suppliers of Water Pumps, Water Heaters, Water Filters, Water Chillers, Fire Fighting, Fire Alarm & Plumbing OS &Y Gate Valves ,Alarm Gate Valves, NRV,Gi Pipe, Gi Fighting,& Water Metter Cabint services that deliver the performance, quality and convenience that you deserve.

With the experienced and support of dedicated, professional workforce and services combined with expert knowledge, processes and systems, MEP has succeeded to help clients & customers achieve optimum value to business making.

Our futuristic vision and hard work gives us opportunities for continuing growth and profitability.

Maintaining our dedication to the government & private sectors, MEP will continue to improve supply of quality products on time ,expand our capabilities, increase our efficiency, and elevate the superior level of customer service to heighten our standrard of execllance and existence.

Our sincere commitment to community at large,social responsibility towards environmental values etc., provides us immense energy in offering ethical,economical, and premier quality of products to our clients .

To seize the opportunities of tomorrow and creat a future that will make us a leader positive company.

To be on the lookout for and shape the opportunities to get the first-mover advantage and remain ahead of competition. The opportunitie could exist in emerging technology, new business models, value creation, customer service, new products services or business and financing options.

To reduce costs and enhahce revenues coupled with finance prudence to galvanize core and attractive investment option.

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1- Fire Fighting Fittings

Gi & Black Pipe

APLAPOLLO STEEL PIPES

ASTM INTERNATIONAL Standards Worldwide

SURYA STEEL PIPES

in WINDMILLS

Round Tubes

Outside Diameter : 21.3mm-355.6mm
Thickness Range : 0.7mm-8.0mm
Length : 3.0 meter to 12.0 meter

APPLICATIONS
- Liquid Transmission
- Idlers
- Mechanical and General Engineering
- Structural
- Water and Sewage
- Water Wells
- Fire Protection
- Fencing

  & Many more...

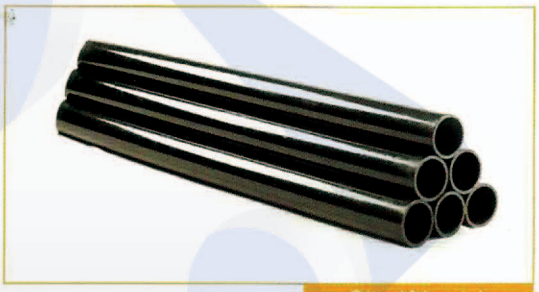
PRODUCTION STANDARDS
- IS:1239(Part-I)/2004, BS:1387-1990
- DIN2439,DIN2440,DIN2441,DIN2444
- EN10255:2004,EN10240:1998
- IS:9295-1983
- IS:3601-1984
- IS:1161-1998
- IS:3589/2001
- IS:4270.2001
- ASTM A-53 GR A&B SCH 20/40/80
- ASTM A-795
- ASTM A-135

TESTS PERFORMED
- Hydrostatic Test
- Eddy Current Test
- Flatteninig/Flaring Test/Bend Test
- Chemical Analysis
- Other Tests as required by the Standard

FINISHING OPERATIONS
- Plain End
- Threaded and Coupled
- Grooved
- Cut Lengths

SURFACE PROTECTION
- Black (Self Colored Uncoated)
- Outside Protective Coating-Oil/Varnish
- Hot Dip Galvanised
- Pre-Galvanised

Black (SELF COLORED UNCOATED)


Oiled/Varnish

Hot Dip Galvanised

Pre-Galvanised

***NOTE:** For details please refer specification sheet.*

Fire Fighting Fittings

Grooved Fighting

NATIONAL™
"a step up in value, a step down in cost"

INDUSTRY AND GOVERNMENT STANDARDS & APPROVALS

(ABS)	American Bureau of Shipping
(ANSI)	American National Standards Institution
(AWWA)	American Water Works Association : C-606
(API)	American Petroleum Institute
(ASHRAE)	American Society of Heating, Refrigeration & Air Conditioning Engineers
(ASME)	American Society of Mechanical Engineers
(ASTM)	American Society of Testing & Materials
(BBA)	British Board of Agreement
(BOCA)	Building Officials & Code Administrators
(BMI)	Bureau of Marine Inspection
(BPR)	Bureau of Public Roads
(CDC)	Civil Defense Certificate, Dubai
(COA)	Corps of Engineers - CEGS 15000
(FAA)	Federal Aviation administration; HVAC, Plumbing, Fire Protection
(FHA)	Federal Housing Administration
(FM)	Factory Mutual Engineering Corp.
(IAPMO)	International Association of Plumbing & Mechanical Officials
(MEA)	Materials and Equipment acceptance
(NAVFAC)	Naval facilities Engineering Command: NFGS 15000 Series
(NFPA)	National Fire Protection Association
(NSF)	NSF International
(SBCCI)	Southern Building Code Congress International
(TVA)	Tennessee Valley Authority; Fire Protection, Storm drains
(UL)	Underwriter's Laboratories, Inc.
(ULC)	Underwriter's Laboratories of Canada
(PED)	Pressure Equipment Directive

WORLDWIDE

(AS)	AS 4041 - 1992 Australian Standard (3.24.10)
(BV)	Bureau Veritas
(DNV)	Det Norske Veritas
(DVGW)	Deutscher Verein des Gas-und Wasserfaches

BOCA BUILDING OFFICIALS & CODE ADMINISTRATORS INTERNATIONAL

ABS Type Approval Program

TÜV

ISO 9001

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS · 1922 · UNIFORM BUILDING CODE

FM APPROVED

c UL us LISTED

PED 97/23/EC

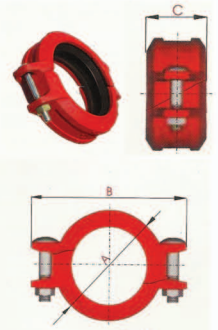
Fire Fighting Fittings

Grooved Fighting

NATIONAL™
"a step up in value, a step down in cost"

RIGID COUPLING STYLE 2

c UL us LISTED FM APPROVED



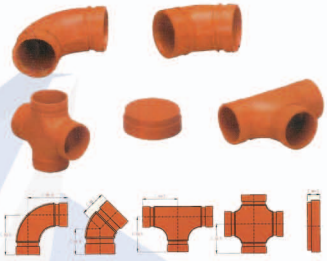
Pipe Nominal Size	Pipe Actual Size in. / mm	Part Number	Max. Working Pressure * psi / kPa	Allow Pipe End Separation in. / mm §	Dimensions (inch / mm) A	B	C	Approx. Wt. Each lb. / kg.
1"	1.315 / 33.4	02100	500 / 5175	0.10 / 2.5	2.19 / 55.6	3.54 / 90.0	1.72 / 43.8	1.2 / 0.5
1 1/4"	1.660 / 42.2	02125	500 / 5175	0.10 / 2.5	2.56 / 65.0	3.90 / 99.0	1.73 / 43.9	1.2 / 0.6
1 1/2"	1.900 / 48.3	02150	500 / 5175	0.10 / 2.5	2.80 / 71.0	4.21 / 107.0	1.73 / 43.9	1.3 / 0.6
2"	2.375 / 60.3	02200	500 / 5175	0.10 / 2.5	3.29 / 83.6	4.72 / 120.0	1.79 / 45.7	1.5 / 0.7
2 1/2"	2.875 / 73.0	02250	500 / 5175	0.10 / 2.5	3.83 / 97.3	5.28 / 134.0	1.79 / 45.7	1.8 / 0.8
3"OD	3.000 / 76.1	02290	500 / 5175	0.10 / 2.5	3.96 / 100.5	5.39 / 137.0	1.79 / 45.7	2.1 / 1.0
3"	3.500 / 88.9	02300	500 / 5175	0.10 / 2.5	4.49 / 114.1	5.98 / 152.0	1.79 / 45.7	2.4 / 1.1
4"	4.500 / 114.3	02400	500 / 5175	0.16 / 4.1	5.83 / 148.0	7.20 / 183.0	1.99 / 50.6	3.7 / 1.7
5"	5.563 / 141.3	02500	300 / 5175	0.16 / 4.1	6.91 / 175.5	8.66 / 220.0	1.99 / 50.6	4.6 / 2.1
6"	6.625 / 168.3	02600	300 / 5175	0.16 / 4.1	8.07 / 205.0	9.80 / 249.0	1.99 / 50.6	6.0 / 2.7
6 1/2"OD	6.500 / 165.1	02650	300 / 5175	0.16 / 4.1	7.91 / 201.0	9.69 / 246.0	1.99 / 50.6	5.5 / 2.5
8"	8.625 / 219.1	02800	300 / 4140	0.19 / 4.8	10.26 / 260.5	12.40 / 315.0	2.32 / 59.1	11.9 / 5.4

Notes

Allowable pipe end separation is for cut groove pipe and for roll groove, figures will be one-half of the values listed and there are at time of initial pressurisation . Ø - Bolts and Nuts are Galvanized * - Maximum pressure including surges and maximum end loads from all internal and external forces, to which a joint could be subject under normal working conditions. This rating provides a nominal safety factor of 1.5 times working pressure based on standard weight steel pipe, cut or roll groove to pipe end preparation specification. Maximum joint working pressure may be subjected to a one time field test of 1.5 times the figures indicated. Contact our Engineering Department for performance on other pipes, and to request the approvals cut sheet. Refer to installations and groove specifications when assembling any grooved product. For dry system, TRI Seal gasket is recommended. To order galvanized finish, place "G" after the part number. EPDM based gasket is supplied as standard. For other gasket contact us.

GROOVED FITTINGS - SHORT PATTERN

c UL us LISTED FM APPROVED

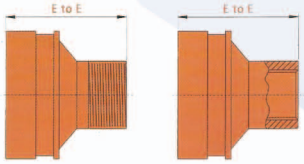


FLOW DATA Frictional Resistance (Expressed as equivalent Straight Pipe in Ft. / m) Nominal Size Inches	90° Elbow STD	90° Elbow FS300	45° Elbow STD	45° Elbow FS300	Tee Branch STD	Tee Branch FS300	Tee Run STD	Tee Run FS300
1	1.7 / 0.5	1.4 / 0.4	0.9 / 0.2	0.9 / 0.3	4.4 / 1.3	4.0 / 1.2	1.7 / 0.5	1.4 / 0.4
1 1/4	2.3 / 0.8	1.8 / 0.5	1.2 / 0.4	1.0 / 0.3	5.8 / 1.8	4.2 / 1.3	2.3 / 0.7	1.8 / 0.5
1 1/2	2.7 / 0.8	2.5 / 0.8	1.3 / 0.4	1.3 / 0.4	6.7 / 2.0	5.2 / 1.7	2.7 / 0.8	2.5 / 0.8
2	3.4 / 1.0	3.2 / 1.0	1.7 / 0.5	1.6 / 0.5	8.6 / 2.6	8.2 / 2.5	3.4 / 1.0	2.5 / 0.8
2 1/2	4.1 / 1.2	3.9 / 1.2	2.1 / 0.6	2.0 / 0.6	10.3 / 3.1	10.1 / 3.1	4.1 / 1.3	3.9 / 1.2
3 OD	4.3 / 1.3	4.5 / 1.3	2.2 / 0.7	2.2 / 0.7	10.8 / 3.3	10.6 / 3.3	4.3 / 1.3	4.5 / 1.3
3	5.1 / 1.6	4.8 / 1.5	2.6 / 0.8	2.4 / 0.7	12.8 / 3.9	12.5 / 3.8	5.1 / 1.6	4.8 / 1.5
4	6.7 / 2.0	6.5 / 2.0	3.4 / 1.0	3.2 / 1.0	16.8 / 5.1	16.0 / 4.9	6.7 / 2.0	6.5 / 2.0
5	8.4 / 2.6	8.4 / 2.6	4.2 / 1.3	4.0 / 1.2	21.0 / 6.4	20.5 / 6.2	8.4 / 2.6	8.2 / 2.5
6	10.1 / 3.1	10.0 / 3.0	5.1 / 1.6	4.8 / 1.5	25.3 / 7.7	24.0 / 7.3	10.1 / 3.1	9.6 / 2.9
6 1/2 OD	10.0 / 3.0	9.6 / 2.9	5.0 / 1.5	4.8 / 1.5	24.9 / 7.6	24.0 / 7.3	10.0 / 3.0	9.6 / 2.9
8	13.3 / 4.1	13.0 / 4.0	6.7 / 2.0	6.5 / 2.0	33.3 / 10.1	33.0 / 10.1	13.3 / 4.0	13.0 / 4.0

Flow data is based upon the pressure drop of Sch. 40 Pipe.

Pipe Nominal Size	Pipe Actual Size in. / mm	90°Elbow - No.F105 (STYLE F105) Part Number	C to E in. / mm	Approx. Wgt. Ea. lb. / kg	45°Elbow - No.F106 (STYLE F106) Part Number	C to E in. / mm	Approx. Wgt. Ea. lb. / kg	Equal Tee - No.F107 (STYLE F107) Part Number	C to E in. / mm	Approx. Wgt. Ea. lb. / kg	Cross - No.F135 (STYLE F135) Part Number	C to E in. / mm	Approx. Wgt. Ea. lb. / kg	End cap - No.F155 (STYLE F155) Part Number	E to E in. / mm	Approx. Wgt. Ea. lb. / kg
1 1/4"	1.660 / 42.2	105125	2.25 / 57.2	0.9 / 0.4	106125	1.75 / 44.5	0.5 / 0.2	107125	2.25 / 57.2	1.0 / 0.5	-	-	-	155125	1.00 / 25.4	0.4 / 0.2
1 1/2"	1.900 / 48.3	105150	2.50 / 63.5	1.1 / 0.5	106150	1.75 / 44.5	0.9 / 0.4	107150	2.50 / 63.5	1.5 / 0.7	-	-	-	155150	1.00 / 25.4	0.5 / 0.2
2"	2.375 / 60.3	105200	2.75 / 69.8	1.3 / 0.6	106200	2.00 / 50.8	1.1 / 0.5	107200	2.75 / 69.8	1.9 / 0.8	135200	2.75 / 69.8	2.2 / 1.0	155200	1.00 / 25.4	0.6 / 0.3
2 1/2"	2.875 / 73.0	105250	3.00 / 76.2	2.0 / 0.9	106250	2.25 / 57.2	1.8 / 0.8	107250	3.00 / 76.2	2.6 / 1.2	135250	3.00 / 76.2	3.3 / 1.5	155250	1.00 / 25.4	0.7 / 0.3
3 "OD	3.000 / 76.1	105290	3.13 / 79.5	2.1 / 1.0	106290	2.25 / 57.2	2.0 / 0.9	107290	3.13 / 79.5	3.1 / 1.4	135290	3.13 / 79.5	3.7 / 1.7	155290	1.00 / 25.4	0.8 / 0.4
3"	3.500 / 88.9	105300	3.38 / 85.9	2.6 / 1.2	106300	2.00 / 50.8	2.2 / 1.0	107300	3.38 / 85.9	4.2 / 1.9	135300	3.38 / 85.9	5.1 / 2.3	155300	1.00 / 25.4	1.1 / 0.5
4"	4.500 / 114.3	105400	4.00 / 101.6	5.1 / 2.3	106400	2.25 / 57.2	4.0 / 1.8	107400	4.00 / 101.6	6.6 / 3.0	135400	4.00 / 101.6	7.5 / 3.4	155400	1.06 / 27.0	1.8 / 0.8
5"	5.563 / 141.3	105500	4.88 / 124.0	6.8 / 3.1	106500	2.50 / 63.5	6.4 / 2.9	107500	4.88 / 124.0	9.0 / 4.1	135500	4.88 / 124.0	13.7 / 6.2	155500	1.06 / 27.0	2.9 / 1.3
6 1/2"OD	6.500 / 165.1	105650	5.50 / 139.7	11.0 / 5.0	106650	2.90 / 73.7	9.0 / 4.1	107650	5.50 / 139.7	20.9 / 9.5	135650	5.50 / 139.7	18.3 / 8.3	155650	1.06 / 27.0	3.7 / 1.7
6"	6.625 / 168.3	105600	5.50 / 139.7	12.8 / 5.8	106600	2.90 / 73.7	9.3 / 4.2	107600	5.50 / 139.7	20.9 / 9.5	135600	5.50 / 139.7	19.7 / 8.9	155600	1.06 / 27.0	4.2 / 1.9
8"	8.625 / 219.1	105800	6.80 / 173.0	22.7 / 10.3	106800	3.25 / 82.6	16.3 / 7.4	107800	6.95 / 176.5	32.9 / 14.9	135800	6.80 / 173.0	34.4 / 15.6	155800	1.20 / 30.5	7.9 / 3.6

CONCENTRIC REDUCER STYLE 140



STYLE 140 TM STYLE 140 TF

NOMINAL SIZE	E to E Inch/mm	APPROX. Wgt.Ea Lb/kg
2"x1"	2.5/63.5	1.39/0.632
2"x1-1/4"	2.5/63.5	0.74/0.338
2"x1-1/2"	2.5/63.5	0.74/0.338
2-1/2"x1	2.5/63.5	1.14/0/520
2-1/2"x1-1/4"	2.5/63.5	1.14/0.520
2-1/2"x1-1/2"	2.5/63.5	1.14/0.520
2-1/2"x2"	2.5/63.5	1.14/0.520
3"ODx1"	2.5/63.5	1.14/0.520
3"ODx1-1/4"	2.5/63.5	1.14/0.520
3"ODx1-1/2"	2.5/63.5	1.14/0.520
3"ODx2"	2.5/63.5	1.14/0.520
3"x1"	2.5/63.5	1.59/0.725
3"x1-1/4"	2.5/63.5	1.59/0.725
3"x1-1/2"	2.5/63.5	1.59/0.725
3"x2"	2.5/63.5	1.38/0.630
4"x1"	3/76.2	2.28/1.036
4"x1-1/4"	3/76.2	2.28/1.036
4"x1-1/2"	3/76.2	2.28/1.036
4"x2"	3/76.2	2.28/1.036
6"x1"	4/101.6	6.92/3.146
6"x1-1/4"	4/101.6	6.92/3.146
6"x1-1/2"	4/101.6	6.92/3.146
6"x2"	4/101.6	6.92/3.146

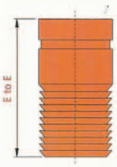
NIPPLES (STEEL) STYLE 35

STYLE 35 GT Grv.X Thd. STYLE 35 GB Grv.X Bev. STYLE 35 GG Grv.X Grv.

NOMINAL SIZE	E to E Inch/mm	APPROX. Wgt.Ea Lb/kg
1"	3/76.2	0.4/0/2
1-1/4"	4/101.6	0.8/0.4
1-1/2"	4/101.6	0.8/0.4
2"	4/101.6	1.2/0.5
2-1/2"	4/101.6	1.9/0.9
3"	4/101.6	2.5/1.1
4"	6/152.4	5.5/2.5
5"	6/152.4	7.4/3.4
6"	6/152.4	9.5/4.3
8"	6/152.4	14.2/6.4
10"	8/203.2	27.0/12.2
12"	8/203.2	33.0/15.0

HOSE NIPPLE STYLE 80

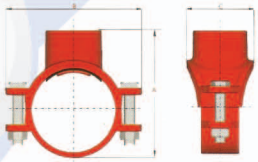
Size Inches millimeters	E to E Inches mm	Weight Each Lbs kg
1 / 25	3.25 / 83	0.4 / 0.2
11/4 / 32	3.63 / 92	0.6 / 0.3
11/2 / 40	4.00 / 102	0.8 / 0.4
2 / 50	4.63 / 118	1.1 / 0.5
21/2 / 65	5.50 / 140	2.0 / 0.9
3 / 80	6.00 / 152	3.2 / 1.5
4 / 100	7.25 / 184	4.9 / 2.2



MECHANICAL BRANCHLETS STYLE 13S

c UL us LISTED FM APPROVED

- Style 13S Mechanical tee serves the same function as Style 13 and assures full pipe support by wrap around ductile iron housing to ASTM A536.
- Cross fitting can be conveniently formed by combining two equal sized upper castings of 13S, either the same, or different branch connection sizes.
- Provided with EPDM rubber gasket as standard, suitable for -30°F to 230°F (-34°C to 110°C).



Performance Data :

SIZE Nominal Size Inches Actual Size mm	Equiv.Feet / Meters of Pipe
1 1/4 X 1 / 42.2 X 33.4	16.53 / 5.0
1 1/2 X 1 / 48.3 X 33.4	17.57 / 5.4
2 X 1 / 60.3 X 33.4	3.43 / 1.1
2 1/2 X 1 / 73.0 X 33.4	2.76 / 0.8

Run Size Inch	Outlet Size Inch	Part Number	Max. * Working Pressure psi/kPa	Hole Diameter Hole Saw in./mm	Hole Diameter Max. Perm. in./mm	Dimensions in./mm A	B	C	Approx. Wt. Each lb./kg.
1 1/4	3/8	13S125037	500 / 3450	1.00 / 25.4	1.06 / 26.9	1.75 / 73.6	3.66 / 78.0	2.16 / 50.0	-
	1/2	13S125050	500 / 3450	1.00 / 25.4	1.06 / 26.9	1.75 / 73.6	3.66 / 78.0	2.16 / 50.0	0.3 / 0.1
	3/4	13S125075	500 / 3450	1.00 / 25.4	1.06 / 26.9	1.75 / 73.6	3.66 / 78.0	2.16 / 50.0	0.4 / 0.1
	1	13S125100	500 / 3450	1.00 / 25.4	1.06 / 26.9	2.13 / 73.6	3.66 / 78.0	2.16 / 50.0	0.5 / 0.2
1 1/2	3/8	13S150037	500 / 3450	1.00 / 25.4	1.06 / 26.9	1.86 / 80.2	3.77 / 85.0	2.16 / 50.0	-
	1/2	13S150050	500 / 3450	1.00 / 25.4	1.06 / 26.9	1.86 / 80.2	3.77 / 85.0	2.16 / 50.0	0.4 / 0.1
	3/4	13S150075	500 / 3450	1.00 / 25.4	1.06 / 26.9	1.86 / 80.2	3.77 / 85.0	2.16 / 50.0	0.4 / 0.2
	1	13S150100	500 / 3450	1.00 / 25.4	1.06 / 26.9	2.24 / 80.2	3.77 / 85.0	2.16 / 50.0	0.5 / 0.2
2	3/8	13S200037	500 / 3450	1.25 / 31.8	1.31 / 33.2	2.10 / 91.6	4.13 / 98.0	2.52 / 50.0	-
	1/2	13S200050	500 / 3450	1.25 / 31.8	1.31 / 33.2	2.10 / 91.6	4.13 / 98.0	2.52 / 50.0	0.4 / 0.2
	3/4	13S200075	500 / 3450	1.25 / 31.8	1.31 / 33.2	2.10 / 91.6	4.13 / 98.0	2.52 / 50.0	0.5 / 0.2
	1	13S200100	500 / 3450	1.25 / 31.8	1.31 / 33.2	2.48 / 91.6	4.13 / 98.0	2.52 / 50.0	0.6 / 0.2
2 1/2	3/8	13S250037	500 / 3450	1.25 / 31.8	1.31 / 33.2	2.36 / 104.5	4.44 / 112.0	2.52 / 50.0	-
	1/2	13S250050	500 / 3450 *	1.25 / 31.8	1.31 / 33.2	2.36 / 104.5	4.44 / 112.0	2.52 / 50.0	0.5 / 0.2
	3/4	13S250075	500 / 3450	1.25 / 31.8	1.31 / 33.2	2.36 / 104.5	4.44 / 112.0	2.52 / 50.0	0.6 / 0.2
	1	13S250100	500 / 3450	1.25 / 31.8	1.31 / 33.2	2.74 / 104.5	4.44 / 112.0	2.52 / 50.0	0.6 / 0.3

Fire Fighting Fittings

BIS Threaded Fighting

Galvanized/Black Malleable Iron Pipe Fittings (Class 150) Standard specification :

Standard	AMERICAN	BRITISH	DIN
Design	ANSI/ASME B-16.3 ANSI/ASME B-16.14 ANSI/ASME B-16.39	BS 143 & 1256	EN 10242
Threads	ANSI/ASME B-1.20.1	BS 21	ISO7-1, ISO228-1
Material	ASTM A-197	BS 6681	EN 1562 (EN-GJMB-300-6)
Galvanizing	ASTM A-153	BS 729	DIN 2950
Type	BANDED	BANDED	BEADED

TIS 249-1997 — THAI INDUSTRIAL STANDARD CERTIFICATION

THAILAND Diversity & Refinement

ISO 9001:2008 BUREAU VERITAS Certification

TS 11 EN 10242

Prime Minister's Export Awards

BIS Pipe Fitting Industry Co.,LTD.

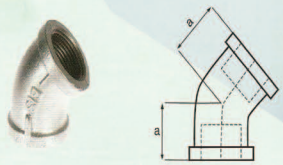
FIG. 90 ELBOWS 90° (L 90)

SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/8	17.5			50	B12	600	19
1/4	20.6			35	B12	420	20
3/8	24.1			45	12	540	41
1/2	26.5			50	8	400	43
3/4	33.3			35	6	210	33
1	38.1			20	6	120	33
1-1/4	44.5			20	4	80	32
1-1/2	49.3			10	6	60	30
2	57.2			8	4	32	28
2-1/2	70.0			6	3	18	26
3	81.0			7	2	14	28
3-1/2	90.0					6	20
4	99.0					6	21
5	113.0					2	12
6	132.0					2	16

FIG. 90R RED. ELBOWS (RL)

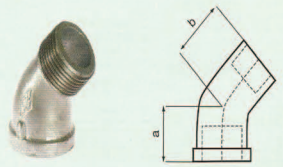
SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/4x1/8	18.8	19.3		40	B12	480	22
3/8x1/8	20.5	21.6		70	12	840	46
3/8x1/4	22.4	22.9		60	12	720	47
1/2x1/8	22.0	23.4		40	12	480	39
1/2x1/4	24.6	24.9		40	12	480	41
1/2x3/8	26.4	26.2		50	8	400	38
3/4x1/8	24.1	26.0		50	8	400	44
3/4x1/4	26.7	27.4		40	8	320	41
3/4x3/8	28.5	28.7		25	12	300	40
3/4x1/2	30.5	31.0		30	8	240	35
1x1/8	26.2	29.7					
1x1/4	28.2	31.0		40	6	240	
1x3/8	30.0	32.3		40	6	240	43
1x1/2	32.0	35.5		30	6	180	36
1x3/4	34.8	36.8		25	6	150	35
1-1/4x3/8	32.8	36.6		80	2	160	44
1-1/4x1/2	34.0	38.9		35	4	140	40
1-1/4x3/4	36.8	41.2		15	8	120	37
1-1/4x1	40.1	42.4		10	8	80	28
1-1/2x3/8	33.8	39.0		30	4	120	40
1-1/2x1/2	35.8	42.2		25	4	100	33
1-1/2x3/4	38.6	44.5		15	6	90	42
1-1/2x1	41.9	45.7		10	8	80	34
1-1/2x1-1/4	46.2	47.8		15	4	60	29
2x1/2	37.3	43.4		15	4	60	30
2x3/4	40.6	50.0		10	6	60	31
2x1	43.5	50.5		14	4	56	32
2x1-1/4	48.3	53.3		10	4	40	27
2x1-1/2	51.3	54.9		10	4	40	29
2-1/2x3/4	43.8	59.4		10	4	40	36

FIG. 120 ELBOWS 45° (L 45)



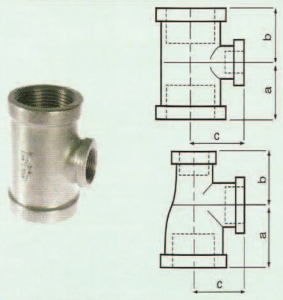
SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/8	17.0			50	B12	600	18
1/4	18.5			30	B12	360	19
3/8	20.3			50	12	600	42
1/2	22.4			50	8	400	40
3/4	24.9			40	6	240	38
1	28.5			20	6	120	31
1-1/4	32.8			20	4	80	30
1-1/2	36.3			10	6	60	30
2	42.7			12	3	36	26
2-1/2	49.5			9	3	27	36
3	55.1			10	2	20	33
4	66.3					6	19
5	77.5					6	23
6	87.9					2	13

FIG. 121 STREET ELBOWS 45° (SL 45)



SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/8	17.0	21.0		70	B12	840	23
1/4	18.5	23.9		40	B12	480	22
3/8	20.3	26.2		50	12	600	42
1/2	22.4	29.2		75	6	450	38
3/4	24.9	32.8		40	6	240	36
1	28.5	37.3		25	6	150	33
1-1/4	32.8	43.4		10	8	80	27
1-1/2	36.3	47.8		10	6	60	28
2	42.7	56.4		12	3	36	27
2-1/2	49.5	65.3		12	2	24	32
3	55.1	76.2		9	2	18	36
4	66.3	94.0				7	25

FIG. 130R RED. TEES (RT)

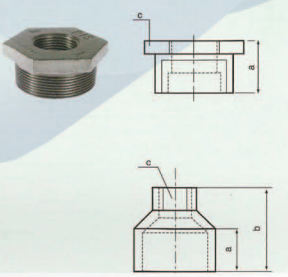


SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/4x1/8	18.8	18.8	19.3	25	12	300	19
3/8x1/8	20.6	20.6	21.6	40	12	480	37
3/8x1/4	22.4	22.4	22.9	40	12	480	44
1/2x1/8	22.8	22.8	23.8	30	12	360	40
1/2x1/4	24.6	24.6	24.9	25	12	300	34
1/2x3/8	26.4	26.4	26.2	45	6	270	39
3/4x1/8	24.8	24.8	26.8	30	8	240	39
3/4x1/4	26.7	26.7	27.4	25	8	200	36
3/4x3/8	28.5	28.5	28.7	30	6	180	34
3/4x1/2	30.5	30.5	31.0	30	6	180	36
1x1/4	28.2	28.2	31.0	25	6	150	41
1x3/8	30.0	30.0	32.3	20	6	120	33
1x1/2	32.0	32.0	35.5	15	8	120	36
1x3/4	34.8	34.8	36.8	25	4	100	33
1-1/4x3/8	32.0	32.0	36.6				

FIG. 240 RED. COUPLING (RED. SOCKETS) (RS)

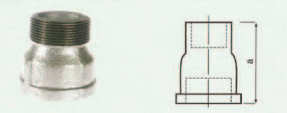
SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/4x1/8	29.8			50	B12	600	23
3/8x1/8	28.7			35	B12	420	21
3/8x1/4	28.7			30	B12	360	19
1/2x1/8	31.8			50	12	600	38
1/2x1/4	31.8			50	12	600	44
1/2x3/8	31.8			40	12	480	36
3/4x1/8	36.6			35	12	420	45
3/4x1/4	36.6			30	12	360	36
3/4x3/8	36.6			30	12	360	42
3/4x1/2	36.6			60	6	360	43
1x1/4	42.9			45	6	270	39
1x3/8	42.9			30	8	240	36
1x1/2	42.9			30	8	240	40
1x3/4	42.9			25	8	200	38
1-1/4x3/8	52.3			30	8	240	53
1-1/4x1/2	52.3			25	6	150	37
1-1/4x3/4	52.3			25	6	150	40
1-1/4x1	52.3			15	8	120	34
1-1/2x3/8	54.0			20	6	120	28
1-1/2x1/2	54.0			20	6	120	55

FIG. 241 BUSHINGS (BU)



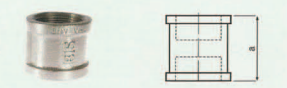
SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/4x1/8	18.0		23.0	120	B12	1,440	20
3/8x1/8	19.0		26.0	75	B12	900	19
3/8x1/4	19.0		26.0	75	B12	900	17
1/2x1/8	22.0		31.0	100	12	1,200	51
1/2x1/4	22.0		31.0	100	12	1,200	47
1/2x3/8	22.0		31.0	100	12	1,200	47
3/4x1/8	24.0		33.0	50	12	600	44
3/4x1/4	24.0		33.0	50	12	600	43
3/4x3/8	24.0		33.0	50	12	600	39
3/4x1/2	24.0		33.0	50	12	600	35
1x1/8	19.2	29.8	28.5				
1x1/4	19.2	29.8	28.5	50	8	400	48
1x3/8	19.2	29.8	28.5	50	8	400	49
1x1/2	29.5		40.0	50	8	400	41
1x3/4	29.5		40.0	50	8	400	34
1-1/4x1/8	20.3	32.9	28.5	30	8	240	37
1-1/4x1/4	20.3	32.9	28.5	30	8	240	61
1-1/4x3/8	20.3	32.9	28.5	30	8	240	37
1-1/4x1/2	20.3	32.9	34.0	30	8	240	48
1-1/4x3/4	26.0		45.0	30	8	240	41
1-1/4x1	28.0		45.0	30	8	240	34
1-1/2x1/4	17.2	30.2	29.7	25	6	150	38
1-1/2x3/8	17.2	30.2	29.7	25	6	150	28
1-1/2x1/2	31.0		50.0	25	6	150	42
1-1/2x3/4	21.0	35.4	41.5	25	6	150	43

FIG. 246 EXTENSION PIECES (X)



SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
3/8	32.0			40	B12	480	22
1/2	41.0			50	12	600	55
3/4	48.5			40	8	320	42
1	56.0			30	6	180	35
1-1/4	60.0			30	4	120	36
1-1/2	65.0			20	4	80	31
2	71.0			15	4	60	36

FIG. 270 COUPLINGS (SOCKETS) (S)



SIZE (INCH)	a	b (mm.)	c	PCS/ INNER	QTY OF INNER	PCS/ MASTER	WT/ MASTER KGS.
1/8	24.4			70	B12	840	23
1/4	26.9			40	B12	480	21
3/8	29.5			50	12	600	36
1/2	34.0			40	12	480	40
3/4	39.0			50	6	300	38
1	42.4			25	6	150	31
1-1/4	49.0			16	8	128	38
1-1/2	54.6			18	4	72	28
2	64.3			12	4	48	28
2-1/2	73.2			8	4	32	35
3	80.8			8	3	24	30
4	93.7			7	2	14	30
6	105.0					2	9

OS & Y Gate Valves

Gate Valves

Ductile Iron Gate Valve to AWWA C509 Rising Stem, Resilient Wedge, 250 PSI Working Pressure, Flanged to ANSI B16.1 Class 125, Fusion Bonded Epoxy Coated to Fire Engine Red. Pre Grooved stem for supervisory switch mounting.

Pressure
Working cold non-shock pressure : 250 PSI
Hydrostatic test pressure Shell : 500 PSI,
Seat : 250 PSI

Application
Cold water, Fire water

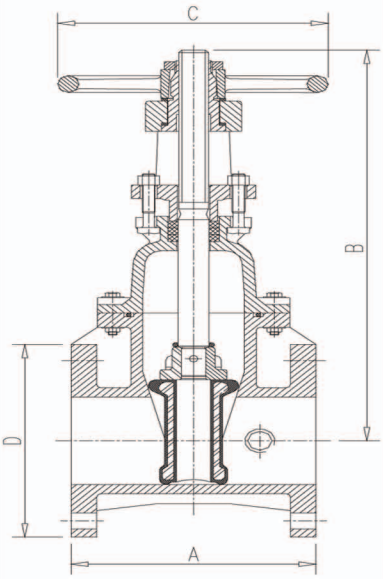
Options (Available on Request)
Bronze Stem
BS 10 Table E Flange Drilling

Accessories
Supervisory Switch, Model OSYSU-1,2

Operation
Hand Wheel

Ordering Information
Figure Number
Flange Drilling
Size (2 1/2" - 12")
Stem (SS / Brass)

ECON Cast Iron Gate Valve
Fig . GVOSY E 250
Resilient Wedge OS&Y
250 PSI / 16 bar
UL Listed
FM Approved
AWWA C509



Material Specification

No	Component	Material
01	Body	Ductile Iron ASTM A536 Gr.65-45-12
02	Wedge	Ductile Iron ASTM A536 Gr.65-45-12, EPDM Encapsulated
03	Wedge Nut	Bronze ASTM B62 C83600
04	Gasket	EPDM
05	Stem	Brass ASTM B16 C36000
		Stainless Steel AISI 304
06	Bonnet	Ductile Iron ASTM A536 Gr.65-45-12
07	O-Ring	EPDM
08	Washer	PTFE
09	Packing	Sq. Braided Non-Asbetos
10	Hand Wheel	Ductile Iron ASTM A536 Gr.65-45-12
11	Bolts and Nuts	Stainless Steel
12	Packing Gland	Ductile Iron ASTM A536 Gr.65-45-12
13	Yoke Nut	Bronze ASTM B62 C83600
14	Lock Nut	Ductile Iron ASTM A536 Gr.65-45-12, Chrome Plated

Dimensions & Weights

Nominal Size	A	B (Open / Close)	C	D	Weight
DN (Inches)	mm	mm	mm	mm	Kg
2 1/2	190.5	408 / 350	184	178	26
3	203	485 / 414	254	190.5	31
4	229	605 / 491	254	228.6	47
6	267	790 / 628	305	279.4	78
8	292	1002 / 776	355.5	343	110
10	330	1187 / 933	444.5	406.4	195
12	356	1422 / 1110	444.5	483	310

Note: Sizes 4", 6" & 8" are FM approved

NRS Gate Valves

econo ROYAL ECONOSTO GROUP

NRS Gate Valves

Ductile Iron Gate Valve to AWWA C515, Resilient Wedge, 300 PSI Working Pressure, Flanged to ANSI B16.1 Class 250, Fusion Bonded Epoxy Coated to Fire Engine Red.

Pressure
Working cold non-shock pressure : 300 PSI
Hydrostatic test pressure Shell : 600 PSI
Seat : 300 PSI

Application
Cold water, Fire water

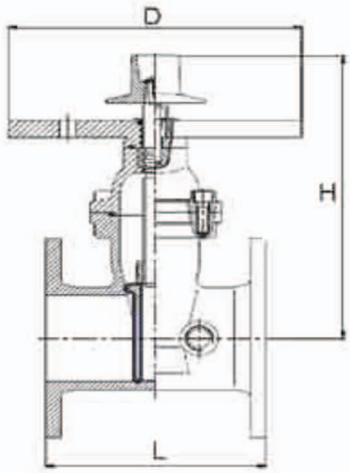
Options (Available on Request)
EN 1092 - 2 PN 10 / PN16 Flange Drilling

Operations
Operating Nut
Extension Spindles and T Keys
Indicator Post

Ordering Information
Figure Number
Flange Drilling
Size (2 1/2" - 12")

ECON Ductile Iron Gate Valve
Fig . GVNRS E 300 F
Resilient Wedge NRS
300 PSI
UL Listed
FM Approved
AWWA C515

UL LISTED FM APPROVED



Material Specification

No	Component	Material
01	Body	Ductile Iron ASTM A536 Gr. 65-45-12
02	Wedge	Ductile Iron ASTM A536 Gr. 65-45-12, EPDM Coated
03	Disc Nut	Bronze ASTM B62 C83600
04	Gasket	EPDM
05	Stem	Stainless Steel AISI 420
06	Bonnet	Ductile Iron ASTM A536 Gr. 65-45-12
07	NPT Plug	Brass B16 C36000
08	Thrust Collar	Bronze ASTM B62 C83600
09	Gland	Ductile Iron ASTM A536 Gr. 65-45-12
10	Wrench Nut	Ductile Iron ASTM A536 Gr. 65-45-12
11	Post Plate	Ductile Iron ASTM A536 Gr. 65-45-12

Dimensions & Weights

Nominal Size DN (Inches)	L mm	D mm	H mm	Weight Kg
4	229	305	305	55
5	254	305	380	75
6	267	305	417	81
8	292	305	525	115
10	356	305	621	186
12	356	305	711	290

Grooved Check Valves

Check Valves

Ductile Iron swing Check valve, Maximum operating pressure - 300 PSI, Groved ends, epoxy coated interior and exterior to fire engine red.

Pressure
Working cold non-shock pressure: 300 PSI
Max test pressure: 560 PSI

Application
Cold water, Fire water

Ordering Information
Valve Size (2" - 8")

LISTED

FM APPROVED

Material Specification

No	Component	Material
01	Body	Ductile iron conforming to ASTMA 536 epoxy coated
02	Clapper	2"-5" type 304or 302 SS to ASTMA 167 6"-8" DI to ASTMA 536 65-45-12
03	Clapper Facing	EPDM Grade E /-40"to 230 F (-40"to 110) Service
04	Seat Ring	Type SS 304 to ASTMA-123 ASTMA-213, ASTMA-312 or ASTMA-269
05	Spring	Type 302 stainless steel to ASTMA-313
06	Hinge Pin	Type304 or 302 stainless steel to ASTMA-580
07	Hinge Pin Bushings	Sintered bronze to ASTMB438

Dimensions & Weights

Nominal Size	A	B	C	D	E	Weight
DN (Inches)	mm	mm	mm	mm	mm	Kg
2	169	60	36	81	111	2.5
2.5	183	61	39	86	114	5.0
3	198	67	51	93	125	6.0
4	218	79	57	108	152	9.0
6	270	108	84	171	216	18.0
8	325	128	100	203	260	33.0

Strainers

General Design & Application:

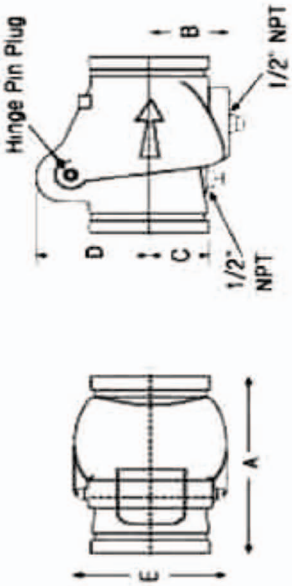
Solid contamination is detrimental to the performance and life of fluid transfer systems. It is therefore extremely important to remove solid contamination from fluid transfer systems. This will protect the pipeline and all the associated equipment / instruments on the line which are mostly sensitive to dirt. Corrosion deposits, scaling, welding slag, sealing compounds as well as several other materials are trapped and prevented from causing system contamination and subsequent problems and failures.

The ECON fire service 'Y' type strainer design offers a reliable and cost effective means of equipment protection, minimizing downtime and maintenance costs. The design of ECON strainers is supported by the decades of experience in the field of fluid handling. Straining is a process of directly intercepting solid particles when the fluid passes through the strainer element / perforated screen. The strainer screen perforations / mesh size are small enough to prevent passage of solid contamination / dirt to the downstream.

The ECON bronze strainers have a strong stainless steel wire mesh screen / element insert. All iron y type strainers are listed with UL for use in fire protection systems. For mesh screen holes sizes please refer the data sheets. The pressure drop through the ECON strainers is minimized due to its streamlined flow design. The strainers have a compact design.

Note: It is extremely important that the Strainer screen is cleaned at frequent intervals in order to avoid damage to screens / elements due to choking (dirt build-up). This will also help to get a better life from the Strainer screen / element. We strongly advice that the strainer screens should be cleaned at regular intervals especially during initial flushing and start up.

ECON Grooved Check Valve
Fig . ECONCHECK G
300 PSI / 21 bar
UL Listed
FM Approved



Alarm Check Valves

econo ROYAL ECONOSTO GROUP

Alarm Check Valves

General Design & Application:

The model ACV F 175 Alarm Check Valve is designed for installation in wet pipe sprinkler systems as per NFPA 13 requirements. The valve is a double seated clapper swing check valve with a grooved seat design, which ensures positive water flow for alarm operation. The model ACV F 175 valve serves as a check valve and also generates an alarm when a sprinkler has operated by operating a water motor alarm and /or a pressure switch. When installed with a water- motor alarm the system can provide a local alarm even in the event of power supply failure. The Model ACV F 75 alarm check valve can be used in systems with a variable pressure water supply by adding the retard chamber to the constant pressure trim. The Econ Alarm check valve complete with trim is listed by UL for use in wet pipe sprinkler system.

UL LISTED

Alarm Check Valve assembly complete with constant pressure trim, retard chamber and water motor alarm gong

Cast Iron Check valve, Maximum operating pressure - 12 bar, Flanged ends to ANSI B16.1 Class 125 FF. Threaded tapping BSPT, suitable for vertical mounting, Fire Engine Red Epoxy painting.

Pressure
Working cold non-shock pressure : 175 PSI
Hydrostatic test pressure : 355 PSI

Application
Wet pipe system as per NFPA 13 and NFPA 25

Options (Available on Request)
Flange drilling to IS : 1538
NPT Threaded opening

Accessories
Constant Pressure trim
Retard Chamber
Water Motor Alarm gong

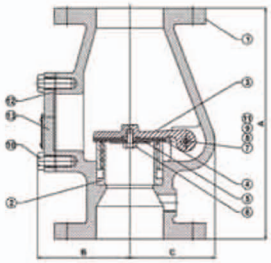
Ordering Informatior
Valve Size (3" - 8")
Flange Drilling
Trim Details

UL LISTED

Material Specification

No	Component	Material
01	Housing	Cast Iron
02	Seat	Bronze
03	Clapper	Bronze
04	Seat Rubber	Neoprene
05	Rubber Clamp	Stainless Steel AISI 304
06	Bolt	Stainless Steel AISI 304
07	Clapper Bush	Bronze
08	Body Bush	Bronze
09	Hinge Pin	Stainless Steel AISI 304
10	Bolts	Steel
11	Plug	Brass
12	Cover Gasket	Neoprene
13	Hand hold Cover	Cast Iron

ECON Cast Iron Alarm Check Valve
Fig . ACV F 175
175 PSI / 12 bar
UL Listed



Dimensions & Weights

Nominal Size	A	B	C	Weight (w/o Trim)
DN (Inches)	mm	mm	mm	Kg
3	325	114	115	28
4	350	140	129	36
6	382	170	154	52
8	423	180	171	86

Grooved Butterfly Valves & Y Strainer

Grooved Butterfly Valves

Ductile Iron Butterfly valves, Grooved Ends, 300 PSI operating pressure EPDM encapsulated Disc, Gear operated, C/W with factory installed dual tamper switches.

Pressure
Working cold non-shock pressure : 300 PSI

Application
Cold water, Fire water

Ordering Information
Figure Number
Size (2 1/2" - 8")

UL LISTED
FM APPROVED

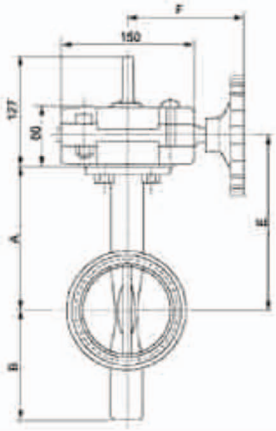
Material Specification

No	Component	Material
01	Body	Ductile Iron ASTM A536 Nylon Coated
02	Disc	Ductile Iron ASTM A536 EPDM Encapsulated
03	Stems	Stainless Steel AISI 420
04	Worm Gear Shift	Stainless Steel AISI 420
05	Gear housing	Ductile Iron ASTM A536 65-45-12
06	Hand Wheel	Ductile Iron ASTM A536 65-45-12
07	Segment Gear	Bronze ASTM B-148/ASTM B584
08	Gasket & "O" Ring	EPDM Grand "E"

Dimensions & Weights

Nominal Size DN (Inches)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Weight Kg
2.5	105	85	96.4	73	135	128	128	-	9.0
3	122	92	96.4	88.9	142	128	128	-	9.5
4	145	108	115.4	114.3	175	128	128	-	11.5
6	179	145	132.4	168.3	209	220	220	6.8	17.5
8	204	170	147.4	219.1	234	220	220	24.2	23

ECON Grooved Butterfly Valves
Fig . HPG
300 PSI / 21 bar
UL Listed
FM Approved



Y Strainers

Cast Iron Y strainer, 175 PSI operating pressure, Flanged Ends to ANSI B16.1 Class 125, Epoxy Coated to Fire Engine Red.

Pressure
Working cold non-shock pressure : 175 PSI

UL LISTED

Application
Cold water, Fire water

Ordering Information
Figure Number
Size (2 1/2" - 12")

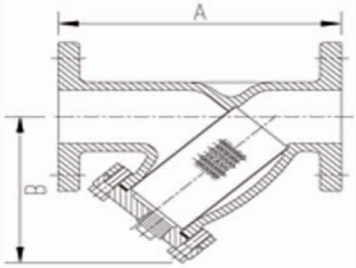
Material Specification

No	Component	Material
01	Body	Cast Iron ASTM A126 Class B
02	Cover	Cast Iron ASTM A126 Class B
03	Screen	Stainless Steel AISI 304
04	Gasket	PTFE/Graphite
05	Plug	Ductile Iron ASTM A536 Gr. 65-45-12

Dimensions & Weights

Nominal Size DN (Inches)	A mm	B mm	C Inches	Weight Kg
2.5	273	135	1	14
3	295	215	1	17.3
4	352	245	1	32
5	416	295	1	47.5
6	470	320	1 1/2	62.5
8	543	415	1 1/2	107.5
10	660	485	2	175.5
12	770	560	2	253.0

ECON Cast Iron Y Strainer
Fig . YS-F-1161 EF
175 PSI / 12 bar
UL Listed



Breeching Inlet & Landing Values & Fire Hydrant

2 Way & 4 Way Breeching Inlet

WET & DRY RISER EQUIPMENT

Kolling 2 way and 4 way Inlet Breeching are manufactured to BS 5041: Pt. 3. Landing valve boxes for dry risers are manufactured to BS 5041 Pt. 4. Foam inlet and dry riser boxes are manufactured to BS 5041: Pt. 5.

GENERAL SPECIFICATIONS

Two way & Four way Inlet Breeching

Body Material	: Spheroidal Graphite Iron to BS 2789
Inlet	: 65mm Male Instantaneous to BS 336, Copper Alloy to BS 1400
Outlet – 2 Way Breeching	: 100mm PN16 to BS4504/4" ANSI Class 150 F.F
4 Way Breeching	: 150mm PN16 to BS 4504/6" ANSI Class 150 F.F
Working Pressure	: 10 Bar (145 psi)
Test Pressure	: 20 bar (290 psi)

DC 707-S

DC 708

Landing Valve

OBLIQUE VALVE

Code	Inlet Size	Outlet
HV005	2 1/2" (65mm) BSPT Male	2 1/2" Female inst. to BS 336
HV005(F)	2 1/2" (65mm) PN16 to BS4504	

RIGHT ANGLE VALVE

Code	Inlet Size	Outlet
HV003	2 1/2" (65mm) BSPT Male	2 1/2" Female inst. to BS 336
HV003(F)	2 1/2" (65mm) PN16 to BS4504	

Fire Hydrant

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.

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

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

SPP 9527

PH 1003 (A)

PH 1003 (B)

Fire Fighting Fittings

Fire Hose Reals & Fire Hose Reals Cabinets

Fire Cabinet Single Doors

SINGLE DOOR CABINETS
In Variety of Sheets

Standard Dimension 800 (w) x 800 (H) x 300 (D) mm

Type	Thickness	Materials		Equipments inside the Cabinet	Finish
		Door	Back Box		
Recessed	1.2 mm	Mild Steel/GI	Mild Steel/GI	Fire Hose Reel or Fire Hose & Branch Pipe or Landing valve Hose Rack	Red Powder Coated
Surface Mounted		Mild Steel/GI/ Stainless Steel	Mild Steel/GI/ Stainless Steel		Red Powder Coated or Stainless Steel
Semi Recessed		Stainless Steel Brush/Mirror Finish	Mild Steel/GI		Red Powder Coated with Stainless Steel
Self Standing		Mild Steel/GI	Mild Steel/GI		Red Powder Coated

BREECHING INLET CABINETS
In Variety of Sheets

Standard Dimension 600 (W) x 400 (H) x 300 (D) mm (2 WAY)
Standard Dimension 600 (w) x 600 (H) x 300 (D) mm (4 WAY)

Type	Thickness	Material		Equipments inside the Cabinet	Finish
		Door	Back Box		
Recessed	1.2 mm	Mild Steel/GI with Glass	Mild Steel/GI	2 Way Breeching Inlet or 4 Way Breeching Inlet	Red Powder Coated
Surface Mounted		Mild Steel/GI with Glass	Mild Steel/GI		Red Powder Coated
Semi Recessed		Stainless Steel Brush /Mirror Finish with Glass	Mild Steel/GI		Red Powder Coated with Stainless Steel

• *Thickness of cabinets can be changed upon clients request.*

Fire Cabinet Double Doors

FULL MILD STEEL
RED POWDER COATED
FC 11

STAINLESS STEEL
MIRROR FINISH
FC 15

STAINLESS STEEL
BRUSH FINISH
FC 13

DOUBLE DOOR CABINET FOR FIRE HOSE REEL, LANDING VALVE & FIRE EXTINGUISHER
STANDARD TECHNICAL SPECIFICATION

Dimension	800 (W) x 1600 (H) x 300 (D) mm
Material	Stainless Steel / Mild Steel / GI
Thickness	1.2 mm
Installation	Surface type, Recessed type, Semi Recessed type
Capacity	Manual or Automatic swing, Fixed Hose Reel 3/4" or 1" & Landing Valve
Paint Finish	Red Powder Coated, Mirror Finish, Brush Finish
Hinges	Push Pin, Piano Hinges Stainless Steel
Door Handle	Chrome plated or Stainless Steel

• *Thickness of cabinets can be changed upon clients request.*

Fire Hose Real

Specification

Diameter	mm	38	45	50	63	70	76	102	127	152
	Inches	1½	1¾	2	2½	2¾	3	4	5	6
Burst Pressure (min.)	kgf/cm²	50	50	50	50	50	42	38	38	38
Proof Pressure	kgf/cm²	25	25	25	25	25	21	19	19	19
Kink Test Pressure	kgf/cm²	25	25	25	25	25	21	19	19	19
Working Pressure	kgf/cm²	14	17	17	17	17	15	15	15	15
30 m. Length Coil Dia.	cm	45	55	55	55	55	60	60	60	60
Mass per Meter (Max.)	gm	275	370	425	500	600	650	950	950	950
Abrasion Resistance (Min.)	Cycles	100	200	200	200	200	200	200	200	200
(at 7 kg/cm² Pressure)										
Heat Resistance	Sec. (Min.)	8	20	20	20	20	20	20	20	20

Fire Fighting Fittings

Fire Extinguishers & Blankt

3 KG ABC POWDER

Description

MODEL	FABC3
Classification	ABC
KM No.	577694
Fire Rating	21A/70B
Extinguisher Agent	40%ABC Powder
Hydrostatic Test Pressure	30 Bar
Operating pressure	15 Bar
Propellent	Dry Nitrogen
Max.Temp. Range	-30°C To +60°C
Agent mass	3 Kg.
Total Mass	4.96 Kg.
Discharge Time	21 sec.

2 KG CARBON DIOXIDE

Description

MODEL	FCO22
Classification	BC
KM No.	577694
Fire Rating	34B
Extinguisher Agent	CO_2
Hydrostatic Test Pressure	250 Bar
Operating pressure	70 Bar
Propellent	CO_2
Max.Temp. Range	-30°C To +60°C
Agent mass	2 Kg.
Total Mass	6.24 Kg.
Discharge Time	20 sec.

4 KG ABC POWDER

Description

MODEL	FABC4
Classification	ABC
KM No.	577694
Fire Rating	27A/113B
Extinguisher Agent	40%ABC Powder
Hydrostatic Test Pressure	30 Bar
Operating pressure	15 Bar
Propellent	Dry Nitrogen
Max.Temp. Range	-30°C To +60°C
Agent mass	4 Kg.
Total Mass	6.3 Kg.
Discharge Time	23 sec.

5 KG CARBON DIOXIDE

Description

MODEL	FCO25
Classification	BC
KM No.	577694
Fire Rating	89B
Extinguisher Agent	CO2
Hydrostatic Test Pressure	250 Bar
Operating pressure	70 Bar
Propellent	CO_2
Max.Temp. Range	-30°C To +60°C
Agent mass	5 Kg.
Total Mass	13.38 Kg.
Discharge Time	27 sec.

Application
Mainly equipped for the kitchen, to put out fire caused by over heated oil in cooking, also can be equipped in the cars and ships, warehouses and oil stations etc. Can effectively put out small fires and can be wrapped around bodies on fire, save people and help escape in time.

Specialities
Excellent fire proof, heat resistance and insulation properties, effectively elliminates air and absorbs heat to suppress fire immediately.

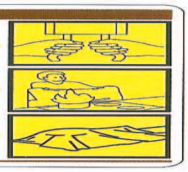
LPCB
UKAS PRODUCT CERTIFICATION 007

Sizes Available:

MODEL NO.	SIZE
FB4	1.2M X 1.2M
FB6	1.2M X 1.8M
FB0606 (NON LPCB)	1.8M X 1.8M

HOW TO USE:

1. Pull tabs downwards to release.
2. Cover burning material completely.
3. Switch off heat and leave covered until cool.



Fire Fighting Fittings

Fire Sprinkler Systems

GLOBE FIRE SPRINKLER CORPORATION

AUTOMATIC SPRINKLERS
GL SERIES
UPRIGHT • PENDENT
VERTICAL SIDEWALL
HORIZONTAL SIDEWALL
CONVENTIONAL (OLD STYLE)

DESCRIPTION AND OPERATION

The Globe GL Series Sprinkler is a low profile yet durable design which utilizes a frangible glass ampule as the thermo-sensitive element. While the sprinkler provides an aesthetically pleasing appearance, it can be installed wherever standard spray sprinklers are specified. This sprinkler series is available in various styles, orifices, temperature ratings and finishes to meet varying design requirements.

The heart of Globe's GL Series sprinkler proven actuating assembly is a hermetically sealed frangible glass ampule that contains a precisely measured amount of fluid. When heat is absorbed, the liquid within the bulb expands increasing the internal pressure. At the prescribed temperature the internal pressure within the ampule exceeds the strength of the glass causing the glass to shatter. This results in water discharge which is distributed in an approved pattern depending upon the deflector style used.

UPRIGHT

CONVENTIONAL

PENDENT

VERTICAL SIDEWALL

HORIZONTAL SIDEWALL

TECHNICAL DATA

- See reverse side for Approvals and Specifications.
- Temperature Ratings - 135°F (57°C), 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C), 360°F (182°C)
- 500°F (260°C) Available Upon Request Without Approvals
- Water Working Pressure Rating - 175 psi (12 Bars)
- Factory tested hydrostatically to 500 psi (34 Bars)
- Maximum low temperature glass bulb rating is -67°F (-55°C)
- Frame - bronze • Deflector - brass • Screw - brass
- Bulb seat - copper • Spring - nickel alloy • Seal - teflon
- Bulb - glass with glycerin solution, 5mm size

• SPRINKLER TEMPERATURE RATING/CLASSIFICATION and COLOR CODING

CLASSIFICATION	AVAILABLE SPRINKLER TEMPERATURES		BULB COLOR	N.F.P.A. MAXIMUM CEILING TEMPERATURE	
ORDINARY	135°F/155°F	57°C/68°C	ORANGE/RED	100°F	38°C
INTERMEDIATE	175°F/200°F	79°C/93°C	YELLOW/GREEN	150°F	66°C
HIGH	286°F	141°C	BLUE	225°F	107°C
EXTRA HIGH	360°F	182°C	MAUVE	300°F	149°C
ULTRA HIGH	500°F	260°C	BLACK	475°F	246°C

4077 AIRPARK DRIVE, STANDISH, MICHIGAN 48658
989-846-4583• FAX 989-846-9231

Fire Fighting Fittings

Fire Sprinkler Systems

HK Series
Automatic Sprinklers

Overview:

ISST sprinkler is widely used in high rise building, warehouses, hotels, and underground projects. It has advantages of good structure, stable performance, safety, reliability, high corrosion resistance and long usage life. Besides, it can be concealed in ceiling with decoration paint for elegant look.

Features:

- UL Listed
- Nominal 5.6 K - Factor
- Corrosion resistant coating for long life.

Product Information

MODEL	DESCRIPTION
HKxxx	Automatic Sprinklers

Technical Specifications:

Model	Response	Type	System Working Pressure	Temp Rating °C
HK001	SR	Upright	175	68 °C / 79 °C / 93 °C
HK002	QR	Upright	175	68 °C / 79 °C / 93 °C
HK003	SR	Pendent	175	68 °C / 79 °C / 93 °C
HK004	QR	Pendent	175	68 °C / 79 °C / 93 °C
HK003	SR	Upright	175	57°C / 68 °C / 79 °C / 93 °C
HK004	QR	Upright	175	57°C / 68 °C / 79 °C / 93 °C
HK005	SR	Pendent	175	57°C / 68 °C / 79 °C / 93 °C
HK006	QR	Pendent	175	57°C / 68 °C / 79 °C / 93 °C
HK005	SR	Side Wall Horizontal	175	68 °C / 79 °C / 93 °C
HK006	QR	Side Wall Horizontal	175	68 °C / 79 °C / 93 °C
HK017 * #	SR	Side Wall Horizontal	175	57°C / 68 °C / 79 °C / 93 °C
HK018 * #	QR	Side Wall Horizontal	175	57°C / 68 °C / 79 °C / 93 °C

*- Installed 4 to 6 inch below ceiling

#- For ordinary hazard occupancies

Fire Sprinkler Monitoring

- Water Flow Detector - Potter
- Water Pressure Switch - Potter
- Water Tamper Switch - Potter
- Pressure Gauge 300 PSI - Ashcroft
- Pressure Gauge 250 PSI - Econ
- Liquid Pressure Gauge 250 -300 PSI
- Sprinkler Alarm Gung

Fire Rated Door

The Decorative fire doors are made of high quality materials
It can be customized by clients requirements

These are made in a wide range of styles from a choice of materials colors and designs
We supply the doors of our own Ul Certified factory

2- Fire Alarm System

Exit Light

Emergency Light

Fire Alarm Control Panal , Smoke & Heat Detector

With years of industrial experience , we are able to carue a niche in catering a Durable range of fire alarm system to our clients these systems are procured From reputed uendors and are duly tested at certain parameters to assure Their longer life and accuracy our clients can auail these at competitiue prices

LOWARA a xylem brand Water Pump

VERTICAL TYPE-MULTI STAGE PUMP

A: e-SV Series sommerse elettropompe verticali

Specification

- Portata: fino a 160 m³/h
- Prevalenza: fino a 330 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,37 kW fino a 55 kW

B-SVI Series sommerse elettropompe verticali

Specification

- Portata: fino a 120 m³/h
- Prevalenza: fino a 240 m
- Alimentazione: 50 Hz
- Potenza: da 0,37 kW fino a 30 kW
- Pressione massima: 25 bar
- Temperatura del liquido da -10 °C a 90 °C

C: VM Series sommerse elettropompe verticali

Specification

- Delivery: up to 14 m³/h
- Head: up to 99 m
- Power supply: both 1 Ph & 3 Ph 50 and 60 Hz
- Power: from 0.30 kW up to 3 kW
- Maximum operating pressure: 10 bar
- Temperature of pumped liquid: from -10 °C to 90 °C

D-TDB, TDV Series sommerse elettropompe verticali

Specification

- Delivery: up to 340 m³/h
- Head: up to 500 m
- Power supply: three-phase 50 Hz
- Power: from 2.20 kW up to 355 kW
- Maximum operating pressure: 63 bar
- Temperature of pumped liquid: from -10 °C to 140 °C

E: GHV Variable speed booster sets

Specification

- Delivery: up to 640 m³/h
- Head: up to 160 m
- Power: up to 22 kW
- Maximum operating pressure: 16 bar

B-eSV Series Variable speed booster sets

Specification

- Delivery: up to 750 m³/h
- Head: up to 160 m
- Power: up to 37 kW
- Maximum operating pressure: 16 bar

LOWARA a xylem brand Water Pump

HORIZONTAL TYPE

F: GXS20, GMD20, GTKS20, GHV20 Booster Set

Specification
- Delivery: up to 62 m³/h
- Head: up to 160 m
- Power: up to 4 kW
- Maximum operating pressure: 16 bar

D:FH Elettropompe centrifughe secondo EN 733 – DIN 24255

Specification
- Portata: fino a 700 m³/h
- Prevalenza: fino a 100 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,25 kW fino a 132 kW
- Pressione massima: 16 bar
- Temperatura del liquido da -30 °C a 120 °C

E: e-HM Multi Stage Pump

Specification
- Portata: fino a 29 m³/h
- Prevalenza: fino a 160 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,30 kW fino a 5,50 kW
- Pressione massima: 16 bar
- Temperatura del liquido da -10 °C a 120 °C

B:CO Filettate pompe centrifughe con girante aperta

Specification
- Portata: fino a 54 m³/h
- Prevalenza: fino a 24 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,37 kW fino a 3 kW
- Pressione massima: 8 bar
- Temperatura del liquido da -10 °C a 120 °C

C:BG Elettropompe autoadescanti centrifughe

Specification
- Portata: fino a 4,20 m³/h
- Prevalenza: fino a 53 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,37 kW fino a 1,10 kW
- Pressione massima: 8 bar
- Temperatura del liquido da -10 °C a 40 °C

SUBMERSIBLE DRAINAGE & SEWAGE PUMP

DL Series

Specification
- Portata: fino a 42 m³/h
- Prevalenza: fino a 21 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,60 kW fino a 1,50 kW
- Temperatura del liquido a 50 °C
- Massima profondità di immersione:5 m
- Passaggio libero: fino a 50 mm

DOMO GRI

Specification
- Portata: fino a 6,60 m³/h
- Prevalenza: fino a 25 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 1,10 kW fino a 1,10 kW
- Temperatura del liquido a 35 °C

GLS, GLV

Specification
- Power: up to 7.40 kW
- Residential-Wastewater
- Light Industry-Wastewater

DOC Series

Specification
- Portata: fino a 14 m³/h
- Prevalenza: fino a 11 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,25 kW fino a 0,55 kW

SCUBA Elettropompe sommerse monoblocco

Specification
- Portata: fino a 7,50 m³/h
- Prevalenza: fino a 80 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,55 kW fino a 1,10 kW
- Temperatura del liquido a 40 °C
- Massima profondità di immersione:20 m
- Passaggio libero: fino a 2,5 mm

LOWARA a xylem brand Water Pump

CIRCULATION PUMP

TLCB, TLCHB Series

Specification
- Portata: fino a 12 m³/h
- Prevalenza: fino a 12 m
- Alimentazione: mono-fase 50 Hz
- Potenza: da 0,03 kW fino a 0,40 kW
- Pressione massima: 10 bar
- Temperatura del liquido da -10 °C a a 65 °

TLC, TLCH Series

Specification
- Portata: fino a 12 m³/h
- Prevalenza: fino a 12 m
- Alimentazione: mono-fase 50 Hz
- Potenza: da 0,03 kW fino a 0,40 kW
- Pressione massima: 10 bar
- Temperatura del liquido da -10 °C a 110 °C

FC-FCT Series

Specification
- Portata: fino a 330 m³/h
- Prevalenza: fino a 89 m
- Alimentazione: mono e tri-fase 50 e 60 Hz
- Potenza: da 0,25 kW fino a 22 kW
- Pressione massima: 16 bar
- Temperatura del liquido da -20 °C a 140 °C

FLC, EFLC Series

Specification
- Delivery: up to 80 m³/h
- Head: up to 20 m
- Power supply: both 1 Ph & 3 Ph 50 Hz
- Power: from 0.10 kW up to 2.50 kW
- Maximum operating pressure: 10 bar
- Temperature of pumped liquid: from -15 °C to 120 °C

B: Water Heaters

MINI-TANK ELECTRIC ARISTON UNDER SINK WATER HEATERS

MINI-TANK ELECTRIC
ARISTON
UNDER SINK WATER HEATERS

Model	Ti-Shape 50VE	Ti-Shape 80VE	Ti-Shape 100VE	Ti-Shape 80HE	Ti-Shape 100HE
Kapasitas (liter)	50	80	100	80	100
Daya Listrik (watt)	1.200	1.200	1.500	1.200	1.500
Voltase (volt)	230	230	230	230	230
Instalasi	Vertikal			Horisontal	
Max. Temperatur (°C)	80°	80°	80°	80°	80°
Tekanan Maks. (Bars)	8	8	8	8	8
∅ Pipa inlet/outlet (Inch)	1/2	1/2	1/2	1/2	1/2
Ukuran (mm)	470x470x585	470x470x790	470x470x943	790x470x470	943x470x470
Berat bersih (Kg)	19.8	25.8	30.9	25.8	30.9
Pelindung terhadap korosi	Lapisan MTS Technology Titanium Enamel + Magnesium Anode				

4- WATER HEATERS

MODEL NUMBERS

M-2-HE40S6DS	40 Capacity	Short
M-2-HE50S6DS	50 Gallon Capacity	Tall
M-2-HE65R6DS	65 Gallon Capacity	Standard
M-2-HE80R6DS	80 Gallon Capacity	Standard

Features

- Direct heat transfer with immersion elements
- Fully automatic controls
- Factory installed Hydrojet® Total Performance System
- Factory installed dielectric waterway fittings
- Protective magnesium anode rod
- Vitraglas® lining
- Heat traps
- T&P relief valve opening
- Brass drain valve
- 2" Non-CFC foam insulation

MODEL NUMBERS

M-2-30L6DS 30	Gallon Capacity	Lowboy
M-2-40L6DS 40	Gallon Capacity	Lowboy
M-1-50L6DS 47	Gallon Capacity	Lowboy

Features

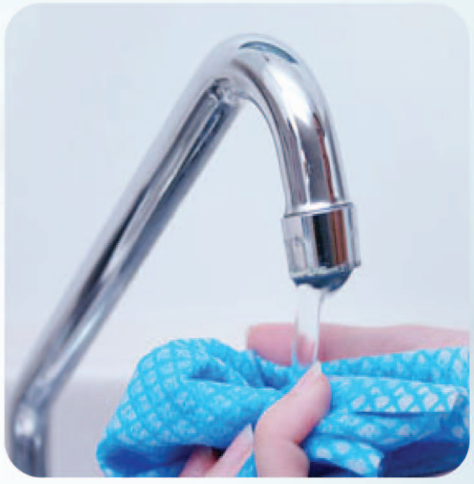
- Fully Automatic Controls
- Hydrojet® Total Performance System
- Direct Heat Transfer with Immersed Elements
- Optional Conversion Kits Available
- Lowboy Models Provided with Insulation Wrap
- Vitraglas® Lining
- Max Temp - 160°F
- ¾" NPT Dielectric Waterway Fittings
- Low Restriction Brass Drain Valve
- T&P Relief Valve Installed
- Protective Magnesium Anode Rod
- 1" Non-CFC Foam Insulation
- 6-Year Tank and Parts Warranty

MODEL NUMBERS

M-1-10U6SS	10 Gallon Capacity	Utility
M-1-15U6SS	15 Gallon Capacity	Utility
M-1-20U6SS	19 Gallon Capacity	Utility
M-2-30U6SS	30 Gallon Capacity	Utility

Features

- Direct heat transfer with immersed element
- Fully automatic controls
- Vitraglas® lining
- Factory installed dielectric waterway fittings
- Protective magnesium anode rod
- T&P relief valve opening
- 1" Non-CFC foam insulation



A.O. Smith Innovation has a name. | Residential Electric Water Heaters

ELECTRIC

TALL AND SHORT MODELS AVAILABLE

DYNACLEAN™ DIFFUSER DIP TUBE
Helps reduce lime and sediment buildup, maximizes hot water output. Made from long-lasting PEX cross-linked polymer.

COREGARD™ ANODE ROD
A. O. Smith's exclusive anode has a stainless steel core, protects tank against corrosion.

DURABLE, TAMPER-RESISTANT BRASS DRAIN VALVE

PERMAGLAS® GLASS COATING
Protects steel tank from corrosion and maximizes tank life.

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

CODES AND STANDARDS
Certain ProMax Electric models meet the requirements of the BC Energy Efficiency Act. See table on reverse for more details.

8-YEAR LIMITED TANK AND 6-YEAR PARTS WARRANTY
For complete information, consult written warranty or A. O. Smith Water Products Company.

C US

ProMax® ELECTRIC

CAPACITY & DIMENSIONS

MODEL NUMBER	SERIES	CAPACITY GALLON	ELEMENT WATTAGE		FIRST HOUR RATING GALLONS	STANDBY LOSS WATTS	DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)	BC COMPLIANT
			WATTS	VOLTS			(A) HEIGHT	(B) DIAMETER		
TOP ENTRY										
EPSX 50	200	50	3000	208	60	57	48-3/4	22	129	√
EPSX 50	200	50	3000	240	60	57	48-3/4	22	129	√
ECS 50	210	50	3000	208	60	66	48	21-1/2	116	-
ECS 50	210	50	3000	240	60	66	48	21-1/2	116	-
ECS 50	210	50	3800	240	60	66	48	21-1/2	116	-
EPSX 50	200	50	4500	208	60	57	48-3/4	22	129	√
EPSX 50	200	50	4500	240	60	57	48-3/4	22	129	√
ECS 50	210	50	4500	208	60	66	48	21-1/2	116	-
ECS 50	210	50	4500	240	60	66	48	21-1/2	116	-
EPSX 50	200	50	6000	208	60	57	48-3/4	22	129	√
EPSX 50	200	50	6000	240	60	57	48-3/4	22	129	√
ECS 50	210	50	6000	208	60	66	48	21-1/2	116	-
ECS 50	210	50	6000	240	60	66	48	21-1/2	116	-
ECT 80	200	80	3000	208	81	78	60-1/2	24	180	√
ECT 80	200	80	3000	240	81	78	60-1/2	24	180	√
ECT 80	200	80	3800	240	81	78	60-1/2	24	180	√
ECT 80	200	80	4500	208	81	78	60-1/2	24	180	√
ECT 80	200	80	4500	240	81	78	60-1/2	24	180	√
ECT 80	200	80	6000	208	81	78	60-1/2	24	180	√
ECT 80	200	80	6000	240	81	78	60-1/2	24	180	√
BOTTOM ENTRY										
EJSH 50	100	50	3000	240	60	66	48	22	123	√
EJSH 50	100	50	4500	208	60	66	48	22	123	√
EJTH 80	100	80	4500	208	81	82	60-1/2	24	208	√
EJTH 80	100	80	4500	240	81	82	60-1/2	24	208	√

5- WATER FILETERS

Pentair Water Filter

Clack Corporation

Selection Table for Filters

SAND FILTERS										
Tank size	Control Type	Service Flow	Back wash Flow	Pressure drop-Media	Pressure drop-Valve	Total Pressure Drop	Pipe Size	Filter Media loading	Tank Area	Fineness of Filtering
Inch		(m^3/hr)	(m^3/hr)	psi	psi	psi	Inch	cu.ft	ft^2	microns
10	263	1.9 - 3	3	04-8	2-4	6 - 12	1	1	0.55	8-10
12	263	2.7 - 4.5	4.5	04-8	3-5	7 - 13	1	2	0.79	8-10
14	263	3.6 - 6	6	04-8	4-7	8 - 15	1	3	1.07	8-10
16	180	4.8 - 8	8	04-8	2.5-6	6.5 - 14	1.5	4	1.4	8-10
18	180	6.0 - 10.0	10	04-8	4-7	8 - 15	1.5	5	1.77	8-10
18	Magnum	6.0 - 10.0	10	04-8	1.3-2.25	5.3 - 10.25	1.5	5	1.77	8-10
21	Magnum	8.2 - 13.6	13.6	04-8	1.8-3	5.8 - 11	1.5	6	2.41	8-10
24	Magnum	10.7 - 17.8	17.8	04-8	2.4-4	6.4 - 12	2	9	3.14	8-10
30	Magnum	16.7 - 28	28	04-8	3.75-6.3	7.75 - 14.3	2	14	4.91	8-10
14	Aqua Kit	3.6 - 6	6	04-8	0-2.5	4 - 10.5	1	3	1.07	8-10
16	Aqua Kit	4.8 - 8	8	04-8	0-0	4 - 8	1.5	4	1.4	8-10
18	Aqua Kit	6.0 - 10.0	10	04-8	0-1.5	4 - 9.5	1.5	5	1.77	8-10
21	Aqua Kit	8.2 - 13.6	13.6	04-8	0-0.5	4 - 08.5	1.5	6	2.41	8-10
24	Aqua Kit	10.7 - 17.8	17.8	04-8	0-1	4 - 09	2	9	3.14	8-10
30	Aqua Kit	16.7 - 28	28	04-8	0-1.5	4 - 09.5	2.5	14	4.91	8-10
36	Aqua Kit	24.0 - 40.0	40	04-8	0-1	4 - 09	3	20	7.07	8-10
42	Aqua Kit	32.8 - 54.5	54.5	04-8	0-2	4 - 10	3	28	9.62	8-10
48	Aqua Kit	43.0 - 71.0	71	04-8	1.5-4	5.5 - 12	3	34	12.56	8-10
54	Aqua Kit	54.0 - 90.0	90	04-8	0-2	4 - 10.5	4	43	15.9	8-10
60	Aqua Kit	66.0 - 110.0	110	04-8	0-2.5	4 - 10.5	4	53	19.63	8-10

Service flow higher than that shown in the table can be achieved at an increased pressure loss (Δp)

6- WATER CHILLER

Domestic Water Chiller

Domestic Water Chillers are compact chillers as they occupy lesser space. These chillers are best suited for individual or small villas and apartments.

Connected to the main storage tank, Domestic Water Chillers cool water effectively even during peak summers. The set-up is similar to the Overhead Tank Chiller and accessories like pump, stainers and flow-switches are provided seperately, if required. The water is cooled to 28° C to 30° C and can be used for a host of applications in bathrooms, kitchens and other outlets.

Features

- Wide range of models: 1.5, 2, 2.5, 3 & 3.5 TR
- Extremely compact
- Connects effortlessly to existing water treatment system
- Anti-corrosive hydrophilic coated fins for extended life
- Pure polyester power coated cabinet for UV protection
- *R407C Option

Technical Specifications

Models	Unit	DWCR 1018	DWCR 1024	DWCR 1030	DWCR 1036	DWCR 1042
Tank capacity to be cooled	Gallon	1000	1500	1700	2150	3000
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50
Unit Dimention - L x D x H	mm	1016 x 406 x 686	1016 x 406 x 686	1016 x 406 x 686	1016 x 406 x 990	1016 x 406 x 996
Refrigerant	R 22					
Refrigerant Qty	kg	1.2	1.7	2.5	3.1	3.5
Weight	kg	75	82	88	92	102
Compressor Details	Hermetic Reciprocating					
Capacity, Btu/hr @35° C/46°C Ambient	Btu/hr	15150/12225	19500/15900	23175/19425	29775/25050	39100/32900
Full Load						
Current@35° C/46°C Ambient	Amp	9.1/9.7	9.5/10.5	11.6/13.2	13.2/15.3	5.9/6.5
Input Power@ 35° C/46°C Ambient	kW	1.8/2.0	2.0/2.2	2.4/2.7	2.6/3.1	3.2/3.7
Fan Details						
Diameter/Qty	mm/no.	508/1	508/1	508/1	610/1	610/1
Fan Motor	Direct Driven, Totally Enclosed					
Power / Qty	hp/no.	1/4 hp/1	1/4 hp/1	1/4 hp/1	1/3 hp/1	1/3 hp/1
Water Connections-Intel/Outlet	Inch	1"/1" Bsp	1"/1" Bsp	1"/1" Bsp	1"/1" Bsp	1"/1" Bsp
Water Leaving Temperature						
Overating Range	° C	20~30	20~30	20~30	20~30	20~30

Rating Conditions: The rating are based on 28° C chilled water outlet and 35° C / 46° C ambient temperature.
*Models DWC1024 & DWC1036
Specifications are subject to change due to continuous product development

Our Clients

Solution as you need

CONTRACTORS	PROJECTS
Al-tahrir Trading	8 Building At Muntazah
Icon General Contract	Alumco At Industrial Area
Boom Construction Co	Umm Saieed Camp
power sypply trading co	old al-gahnim
Al-wajeaa Trading	berkat al-awamer
Al-tahrir Trading & Cont	Dasman
larissa gardings	peral qatar
asyad qatar	2b+g+6 at al-sadd
power supply trading	qatar university
Desert Group Co	Al-wjba Palace
Goulf Trading	54 Villa At Al Rayyan
Al-jalil Trading	P. 11 Madinat Khalifa
Al Wabara Farm	Al Wabara Farm
el etihad steel factory	el etihad steel factory idustrial area
Ahmed Bin Mohamed Coldge	Ahmed Bin Mohamed Coldge
Khalid Bin Al Walid School	Khalid Bin Al Walid School
Al-taadd Group	Parwa Project
hamton international	al bedaa switch gar factory
Mirdas	Rass Laffan
Gazzaoui & Partnrs	14 Villas Project
AMTC abdulla al muftah	peral qatar
T.E.A for mechanical	50 villa ain khalid
iskan group	shahanya labour camp
red line	old airport

MEP ENGINEERING
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MECHANICAL - ELECTRICAL - PLUMBING

NATIONAL

LOWARA a xylem brand

GST A UTC Fire and Security Company

AO Smith Innovation has a name.

FIREX

BRISTOL Fire Engineering Since 1974

GLOBE FIRE SPRINKLER CORPORATION

BIS PIPE FITTING INDUSTRY COMPANY LIMITED

econosto ROYAL ECONOSTO GROUP

POTTER The Symbol of Protection

fivalco

KOLLING Fire Appliances Manufacturer,Brass And Aluminium Founder.

BRADFORD WHITE WATER HEATERS

isst

ASTM INTERNATIONAL Standards Worldwide

SURYA STEEL PIPES

APLAPOLLO STEEL PIPES

BLUE STAR

Tel/ Fax: (+974) 44148236, Mob: (+974) 55690066, P.O.Box: 91111 Doha – Qatar. CR.No: 26935/16
E-Mail: info@mepqatar.com Web: www.mepqatar.com