



روابط緊急救援組織

سابقة أعمال المؤسسة

و

المواصفات الفنية

## المواصفات الفنية للمواد

### **1- تدبيقات نظام إطفاء الحرائق**

❖ جميع القطع المسننة المستخدمة معتمدة UL & FM

➤ **BMI Mech Fittings (From 1 inch to 2 inch)**

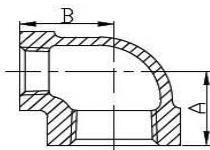


**90R**

❖ All BMI Mech fittings is listed **UL** and **FM**



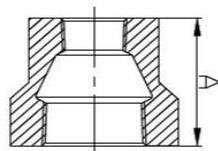
Reducing Elbow, 90°



Size	Inch	1X1/2	1X3/4	11/4X1/2	11/4X3/4	11/2X1	11/2X1/2	11/2X3/4
	mm	25x15	25x20	32x15	32x20	32x25	40x15	40x20
Dim. (mm)	A	32	35	34	37	40	36	38.5
	B	34.5	37	39	41	42.5	42	44.5
Size	Inch	11/2X1	11/2X11/4	2X3/4	2X1	2X11/4	2X11/2	
	mm	40x25	40x32	50x20	50x25	50x32	50x40	
Dim. (mm)	A	42	46	40.5	44	48.5	51.5	
	B	45.5	48	50	51.5	53.5	55	

**240**

Reducing Coupling



Size	Inch	1X1/2	1X3/4	2X1		
	mm	25x15	25x20	50x25		
Dim. (mm)	A	43	43	59		
Size	Inch					
	mm					
Dim. (mm)	A					

## ➤ Grooved Mech Fittings (Bigger than 2 Inch)



Ductile iron grooved fitting

 <b>1N</b> Flexible Coupling	 <b>1NS</b> Light-duty Flexible Coupling	 <b>1N</b> Reducing Flexible Coupling	 <b>1NS/1NH</b> Light-duty Reducing Flexible Coupling Extra Heavy Duty Flexible Coupling	 <b>1G</b> Rigid Coupling
 <b>1GS</b> Light-duty Rigid Coupling	 <b>90</b> 90° Elbow	 <b>90S</b> Light-duty 90° Elbow	 <b>90R</b> 90° Reducing Elbow	 <b>105</b> 11.25° Elbow
 <b>110</b> 22.5° Elbow	 <b>120</b> 45° Elbow	 <b>130</b> Tee	 <b>130S</b> Light-duty Tee	 <b>130R</b> Reducing Tee
 <b>131R1</b> Reducing Tee	 <b>180</b> Cross	 <b>180R</b> Reducing Cross	 <b>181</b> Reducing Cross	 <b>3G/3GS</b> Mechanical Tee Grooved Outlet Light Duty Mechanical Tee Grooved Outlet



## شركة Globe



- شركة أمريكية

- جميع منتجاتها حاصلة على

- اعتمادات ال UL وال FM

Sprinklers

Pendent Side-Wall

**GLOBE FIRE SPRINKLER CORPORATION**



## 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)
- 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°)
- Frame - bronze • Deflector - brass • Screw - brass
- Lodgement Wire - stainless steel • Bulb seat - copper
- Spring - nickel alloy • Seal - teflon
- Bulb - glass with alcohol based solution, 3mm size



## SPRINKLER TEMPERATURE RATING/CLASSIFICATION and COLOR CODING

CLASSIFICATION	AVAILABLE SPRINKLER TEMPERATURES	BULB COLOR	N.F.P.A. MAXIMUM CEILING TEMPERATURE	
ORDINARY INTERMEDIATE HIGH	135°F/155°F 175°F/200°F 286°F	57°C/68°C 79°C/93°C 141°C	ORANGE/RED YELLOW/GREEN BLUE	100°F      38°C 150°F      66°C 225°F      107°C





Safety Gateway

# الصناديق والطفايات FHC & Fire Extinguisher



## مواصفات الفني

الصندوق مصنوع من الصاج أو الاستنليس استيل بسماكه املم إلى 2 ملم يتم طي الأطراف الخارجية البكرة إلى الداخل وذلك من أجل استخدام آمن. الصناديق المصنوعة من الصاج يتم دهانها بالبودرة إلكتروستاتيكيا، ثم تعرض الفرن على درجة حرارة تتراوح بين 160..200 درجة مئوية، مما يكسبها مظهراً جذاباً إضافة إلى حمايتها من العوامل الجوية كالصدا.

يتم دهن صناديق خراطييم إطفاء الحرائق بدهان الكهرباء المطفي باللون الأحمر أو أي لون على حسب اللون المطلوب وهذا الدهان قوي التحمل ومانع للصدأ. خراطييم إطفاء الحرائق قد تم اختباره هايدرولوكيا على ضغط 4 بار مع مراعاة. معايير الرقابة على تنفيذها للحصول على منتجات ذات جودة عالية.



## الميزات القياسية

يقدم الصندوق مع فتحتين ، إما إلى اليسار أو اليمين والتي تسنم المياه من الجانب.

faslat باب الصندوق من النوع الجيد ويفتح الباب حتى 180 درجة.

يتم عمل اربع ثقوب مقاس عشرة ملم لتسثيت صندوق الحرائق من الخلف على الحائط .

تعليمات الاستعمال باللغة العربية والإنجليزية .

لي حريق مقاس واحد بوصة بطول 3 متر من الروبر معزز بخيوط البوليستر من النوعية عالية التحمل باللون الأحمر أو الأسود .

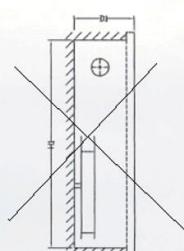
نزل ثلثي القذف قبل للتعديل .

صمام نحاس واحد ونصف بوصة 1/2 بار .

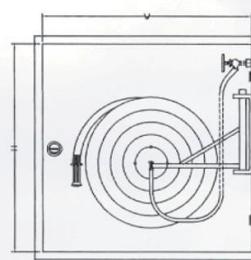
محول من واحد ونصف بوصة من النحاس .

MODEL	SURFACE TYPE			RECESSED TYPE		
	Width	Height	Depth	Width	Height	Depth
MHSF-07	710	780	210	710	780	210
MHSF-07-V	710	780	210	710	780	210
MHSF-07-G	710	780	210	710	780	210
MHSF-07-S	710	780	210	710	780	210
MHSF-07-S-G	710	780	210	710	780	210

Recessed Type



Side View



Front View



Top View



**Flanged Resilient OS&Y  
Gate Valve (XZ41X),  
UL/FM Approved**



XZ41X  
 

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI  
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating Complies with ANSI/AWWA C550

**Grooved Resilient OS&Y  
Gate Valve (XZ81X),  
UL/FM Approved**



XZ81X  
 

- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI  
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request

**Flanged Resilient NRS  
Gate Valve (Z45XC),  
UL/FM Approved**



Z45XC  
 

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI  
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550





# Safety Gateway

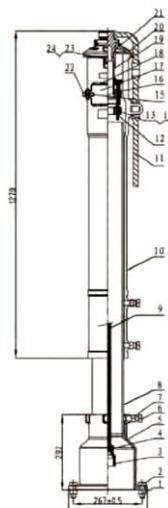
Vertical Indicator Post (IP),  
UL Listed



IP

- Statement:  
Vertical indicator post provides a means to operate a buried or otherwise inaccessible valve and able to indicate the open or shut position of the valve.
- Coating:  
Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

Wall Indicator Post (WP),  
UL Listed



WP

Flanged Resilient Swing Check Valve  
(H44X2), UL/FM Approved



H44X2

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI  
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

Grooved Butterfly Valve

with Tamper Switch (XD381X4)

Flanged Y-Type Strainer (V4),

UL Listed

Wet Alarm Check Valve

(ZSFZ)



XD381X4

- Design Standard: MSS SP-67
- Connection Ends: Groove to AWWA C606
- Top Flange Standard: ISO 5211
- Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 300PSI  
175PSI, 200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



V4

- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI  
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C rubber gasket,  
-10°C- 350°C graphite gasket
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



ZSFZ

- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI  
200PSI and 250PSI available upon request
- Temperature Range: 0°C- 80°C
- Coating: Painting or Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



## ١- تهدیفات المواشير الخارجية

مواشير Black steel نوع Jasco



شركة مصانع الجزيرة للمنتجات الفولاذية المحدودة  
AL-Jazera Factories For Steel Products Co. Ltd

❖ مواشير حديد أسود جدول 40 Black steel Pipes Sch 40



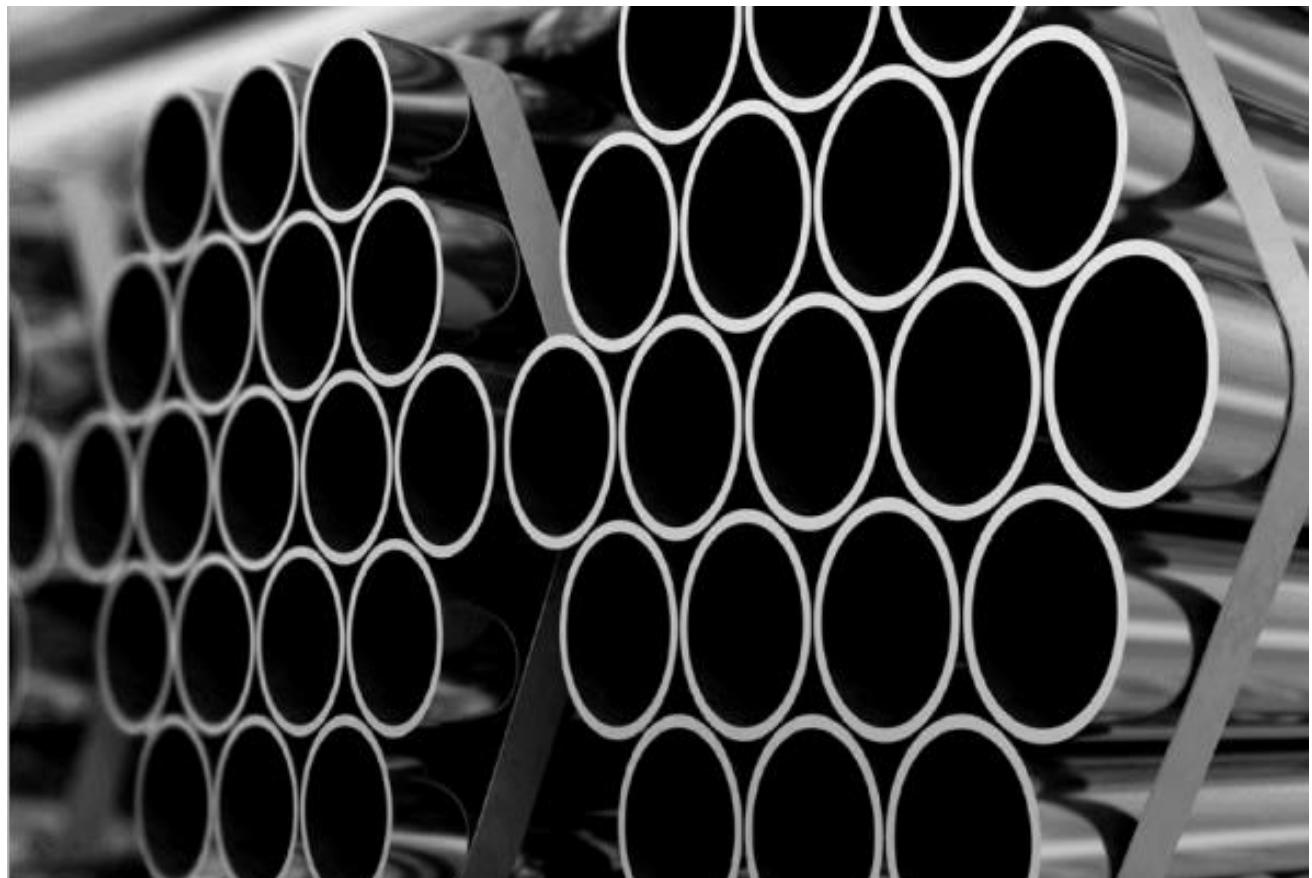
❖ حاصلة على إعتماد UL والأيزو ISO



والجمعية الامريكية للهندسة الميكانيكية



والجمعية الامريكية للأختبار والخامات



الجزيرة ... فيه منافع للناس حديد

## Quality Inspection

فحوصات الجودة

Main Tests as per Pipes International - Standards Requirements

Standard Specification	Grades	Flattening Test	Bending Test	Hydrostatic Test
ASTM	G-A	Apply for standard weight pipe of ND > 2 in Ductility of the weld : H = $\frac{3}{4}$ D	Apply for NB ≤ 2in 90° X 12 ND when ordered for close coiling 180°X 8ND	Specified respectively in size and grade as per ASTM Standard
	G-B	Ductility base metal : H = $\frac{1}{2}$ D (>5t) The test shall be made alternatively with the weld at 0° and 90°		
BS 1387	(L/M)	Apply for NB ≥ 2- $\frac{1}{2}$ in. Weld portion : H = $\frac{3}{4}$ D, at 90° The other side of weld : H = $\frac{3}{4}$ D	Apply for NB ≤ 2in Black: 180° x 6D White: 90° x 8D	P = 700 psi (50 Kgf / cm <sup>2</sup> )

**Note :**

H = Distance between exterior Surface

D : Outside Diameter

T : Wall Thickness in mm.



## المواصفات الأمريكية وال سعودية الثقيلة

Class	الحجم الأساسي Nominal Size	القطر الخارجي Outside Diameter	السمكية Wall Thickness	الوزن Nominal Weight				اختبار الضغط Test Pressure ( Plain End)				عدد الأنبوب في الريشة Pieces per Bundle			
				Plain end		Thread Coupling		Grade A		Grade B					
A	B	in	mm	in	mm	kg/m	kg/ft	kg/m	kg/ft	psi	bar	psi	bar		
SCH 40	15	½	0.840	21.30	0.109	2.77	1.27	0.39	1.27	0.39	700	48	700	48	105
	20	¾	1.050	26.70	0.113	2.87	1.69	0.51	1.69	0.51	700	48	700	48	84
	25	1	1.315	33.40	0.133	3.38	2.50	0.76	2.50	0.76	700	48	700	48	60
	32	1 ¼	1.660	42.20	0.140	3.56	3.39	1.03	3.40	1.03	1200	83	1300	90	42
	40	1 ½	1.900	48.30	0.145	3.68	4.05	1.23	4.05	1.24	1200	83	1300	90	36
	50	2	2.375	60.30	0.154	3.91	5.44	1.66	5.46	1.67	2300	159	2500	172	26
	65	2 ½	2.875	73.00	0.203	5.16	8.63	2.63	8.67	2.64	2500	172	2500	172	18
	80	3	3.500	88.90	0.216	5.49	11.29	3.44	11.35	3.45	2220	153	2500	172	14
	100	4	4.500	114.30	0.237	6.02	16.07	4.89	16.23	4.94	1900	131	2210	152	10
	125	5	5.563	141.30	0.258	6.55	21.77	6.63	22.07	6.72	1670	115	1950	134	7
SCH 80	150	6	6.625	168.30	0.280	7.11	28.26	8.61	28.58	8.70	1520	105	1780	123	7
	65	2 ½"	2.875	73.0	0.276	7.0	11.41	3.47	11.52	3.511	2500	172	2500	172	18
	80	3"	3.5	88.9	0.3	7.62	15.27	4.65	15.39	4.69	2500	172	2500	172	14

### Note : Permissible Variations in Weight & Dimensions :

#### 1- Outer Diameter :

- 1½ inch & smaller : ± 0.4 mm.
- 2 inches and larger : ± 1%.

#### 3- Weight : ± 10%.



### GTC - BPE - GPE

#### 1. Page 9 I need to add the following

- Pipes are available in Black and Red colors.
- Bigger sizes are available.



Some of applications		بعض التطبيقات
Water pipe lines		خطوط أنابيب الماء
Fencing		الأسوار
Fire Fighting systems		أنظمة مكافحة الحريق
Barriers		الحواجز

# CERTIFICATES



**FM  
APPROVED**

Member of the FM Global Group

**Certificate of Compliance**

This certificate is issued for the following:

**Steel Pipe for Automatic Fire Sprinkler Systems**

Product	Listing Country	Nominal Pipe Size, in.	Rated Working Pressure, psi	Rated Working Pressure, kPa	Certification Type
Schedule 40	Saudi Arabia	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	175	1200	FM Approved
Schedule 40	Saudi Arabia	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 3, 4, 5, 6	300	2070	FM Approved

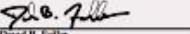
Note: a. FM Approved for use with FM Approved pipe fittings under Item(s) b.  
b. Utilities or any government by listing, the organization to FM Approved for any pipe system.  
c. FM Approved for use with listed valves under Item(s) b.  
d. FM Approved for use with listed fittings under Item(s) b.  
e. FM Approved for use with listed piping systems under Item(s) b.  
f. FM Approved for use with listed piping systems under Item(s) b.  
g. FM Approved for use with listed piping systems under Item(s) b.  
h. FM Approved for use with listed piping systems under Item(s) b.

Designed & Manufactured at: Al-Jazera Factories for Steel Products Co., Ltd, 1st Industrial City, Phase 4, Jeddah 21441, PO Box 1943 Kingdoms of Saudi Arabia

FM Approval Class: 1630 – "Steel Pipe for Automatic Fire Sprinkler Systems"  
 Approval Identifier: 3059738      Approval Granted: May 31, 2018

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audit, and strict conformity to the construction as shown in the Approval Guide, an online resource of FM Approvals.

  
 David H. Fuller  
 VP, Manager – Fire Protection  
 FM Approvals  
 1151 Boston-Providence Turnpike  
 Norwood, MA 02061 USA

## CERTIFICATE OF COMPLIANCE

Certificate Number: 20170104-EX27238  
 Report Reference: EX27238-20161229  
 Issue Date: 2017-JANUARY-04

Issued to: Al-Jazera Factories For Steel Products Co Ltd  
 1st Industrial City, Phase 4  
 PO Box 1943  
 Jeddah 21441 SAUDI ARABIA

This is to certify that representative samples of METALLIC SPRINKLER PIPE Schedule 40 steel pipe in the 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, and 6 inch sizes as per ASTM A53, Grade A, Black or Galvanized Type E.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 852, Metallic Sprinkler Pipe for Fire Protection Service  
 Additional Information: See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

  
 UL  
 Small Business Division Safety Certification Program  
For more information about the Small Business Division Safety Certification Program, contact us at 1-800-967-3373 or visit our website at [www.ul.com/smallbusiness](http://www.ul.com/smallbusiness).



## CERTIFICATE OF COMPLIANCE

Certificate Number: 20150908-E238916  
 Report Reference: E238916-20031120  
 Issue Date: 2015-SEPTEMBER-08

Issued to: AL-JAZERA FACTORIES FOR STEEL PRODUCTS LTD  
 PHASE IV  
 KSA INDUSTRIAL CITY  
 PO BOX 1943  
 JEDDAH 21441 SAUDI ARABIA

This is to certify that representative samples of RIGID FERROUS METAL CONDUIT  
 Rigid ferrous metal conduit (with couplings), 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5 and 6 in. Trade sizes

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 6 - Standard for Safety for Rigid Metal Conduit  
 Additional Information: See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

  
 UL  
 Small Business Division Safety Certification Program  
For more information about the Small Business Division Safety Certification Program, contact us at 1-800-967-3373 or visit our website at [www.ul.com/smallbusiness](http://www.ul.com/smallbusiness).



## -2 - تمهيدات المواسير الأرضية (Under Ground Pipes)

### مواسير البولي إيثيلين عالي الكثافة HDPE



#### Advantages

- Low specific Weight
- Excellent weldability
- Smooth inside surface, no deposits and no overgrowth
- Due to less frictional resistance, less pressure drop compared to metals
- Suitable for food and potable water
- Complies with the food stuff regulations
- Approved and registered for potable water supply
- Laying speed ease joining and reliability

#### Resistance to :

- Ultraviolet rays
- Weathering
- Chemicals
- Heat aging
- Abrasion
- Rodents
- Freezing
- Microbes freezing

Polyethylene pipe work systems have the main advantages over steel and ductile iron systems its lightness of weight and freedom from corrosion. The rapid growth in use of polyethylene is due in part to benefits over steel and iron systems, but possibly more to the development of several advanced and easy jointing techniques. Polyethylene has very good fatigue strength and special provision for surges frequently allowed when designing other thermoplastic pipe work systems (as PVC) are not normally necessary.

Pipes (HDPE) are produced in sizes up to 1200 mm in diameter, with nominal pressure ratings PN4, PN6, PN10, up to PN 16 (other pressure ratings also available). All pipes and fittings are manufactured in accordance with current European standards, DIN 8074, ISO 4427, / 1167 and SASO Draft No. 5208 and European Standard as EN 1220 1-2 for Pipes EN 1220 1-3 for Fittings.

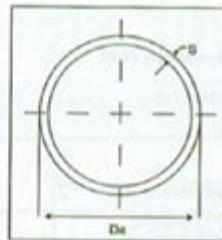
HDPE piping systems are used worldwide for conveying of water as well as for transportation of hazardous fluids. It offers the following advantages to the customer.



## **HDPE PRESSURE PIPE PE80 = MRS 8 = SIGMA 6.3**

Dimensioning according to DIN 8074 - ISO 4472 / 1167

Material	Color	Dimensions
High Density Polyethylene PE80	Black	DIN 8074 / 8075
MRS = 8.0 Mpa		
$G_s = 6.3 \text{ Mpa (MRS / c)}$		
$c = 1.25$		



$$\frac{PN = 2 \times 0.5 \times 5 \times 10}{D_0 = 5}$$

Pipe Series = Qs x 10 / PN

\*\*\* Weight may vary according to polymer density. The mass has been calculated taking average density as 0.95 g/cm<sup>3</sup>. For other densities, the mass shall be established by linear interpolation, taking the wall thickness as the nominal size plus half the tolerance specified.

Nominal Diameter mm	Pipe Series														
	S20			S 16			S 10.5			S 6.3			S 5		S 4
	SDR 41			SDR 33			SDR 22			SDR 13.6			SDR 11		SDR 9
	Nominal Pressure PN for $os = 6.3$ Mpa														
	PN 3.2			PN 4			PN 6			PN 10			PN 12.5		PN 16
	Nominal Pipe ID mm	Wall Thickness mm	Approx. weight kg/m	Nominal Pipe ID mm	Wall Thickness mm	Approx. weight kg/m	Nominal Pipe ID mm	Wall Thickness mm	Approx. weight kg/m	Nominal Pipe ID mm	Wall Thickness mm	Approx. weight kg/m	Nominal Pipe ID mm	Wall Thickness mm	Approx. weight kg/m
12															
16															12.4
20										16.4	1.8	0.107	16.2	1.9	0.112
25										21.2	1.9	0.144	20.4	2.3	0.171
32										27.2	2.4	0.232	26.2	2.9	0.272
40							36.2	1.9	0.238	34.0	3.0	0.356	32.6	3.7	0.430
50			46.4	1.8	0.287	45.4	2.3	0.361	42.6	3.7	0.549	40.8	4.6	0.666	
63	59.4	1.8	0.364	59.0	2.0	0.399	57.2	2.9	0.563	53.6	4.7	0.873	51.4	5.8	1.050
75	71.2	1.9	0.457	70.4	2.3	0.551	68.0	3.5	0.807	63.8	5.6	1.240	61.4	6.8	1.470
90	85.6	2.2	0.643	84.4	2.8	0.791	81.8	4.1	1.140	76.6	6.7	1.770	73.6	8.2	2.120
110	104.6	2.7	0.943	103.2	3.4	1.170	100.0	5.0	1.670	93.8	8.1	2.620	90.0	10.0	3.140
125	118.8	3.1	1.230	117.2	3.9	1.510	113.6	5.7	2.160	106.6	9.2	3.370	102.2	11.4	4.080
140	133.0	3.5	1.540	131.4	4.3	1.880	127.2	6.4	2.720	119.4	10.3	4.220	114.6	12.7	5.080
160	152.0	4.0	2.000	150.2	4.9	2.420	145.4	7.3	3.540	136.4	11.8	5.500	130.8	14.6	6.670
180	171.2	4.4	2.490	169.0	5.5	3.070	163.6	8.2	4.470	153.4	13.3	6.980	147.2	16.4	8.420
200	190.2	4.9	3.050	187.6	6.2	3.840	181.8	9.1	5.510	170.6	14.7	8.560	163.6	18.2	10.400
225	214.0	5.5	3.860	211.2	6.9	4.770	204.4	10.3	7.000	191.8	16.6	10.900	184.0	20.5	13.100
250	237.6	6.2	4.830	234.6	7.7	5.920	227.2	11.4	8.590	213.2	18.4	13.400	204.6	22.7	16.200
280	266.2	6.9	5.980	262.8	8.6	7.400	254.4	12.8	10.800	238.8	20.6	16.800	229.2	25.4	20.300
315	299.6	7.7	7.520	295.6	9.7	9.370	286.2	14.4	13.600	268.6	23.2	21.200	257.8	28.6	25.600
355	337.6	8.7	9.550	333.2	10.9	11.800	322.6	16.2	17.300	302.8	26.1	26.900	290.6	32.2	32.500
400	380.4	9.8	12.100	375.4	12.3	15.100	363.6	18.2	21.500	341.2	29.4	34.100	327.4	36.3	41.300
450	428.0	11.0	15.300	422.4	13.8	19.000	409.0	20.5	27.700	383.8	33.1	43.200	368.2	40.9	52.300
500	475.4	12.3	19.000	469.4	15.3	23.400	454.4	22.8	34.200	426.4	36.8	53.300	409.2	45.4	64.500
560	532.6	13.7	23.600	525.6	17.2	29.400	509.0	25.5	42.800	477.6	41.2	66.900	458.4	50.8	80.800
630	599.2	15.4	29.900	591.4	19.3	37.100	572.6	28.7	54.100	537.4	46.3	84.600	515.6	57.2	102.000
710	675.2	17.4	38.00	666.4	21.8	47.20	645.4	32.3	68.700	605.6	52.2	107.00	581.0	64.5	130.00
800	760.8	19.6	48.100	751.0	24.5	59.70	727.2	36.4	87.200	682.4	58.8	136.00			
900	856.0	22.0	60.900	844.8	27.6	75.60	818.0	41.0	110.00	767.8	66.1	172.00			
1000	951.0	24.5	75.200	938.8	30.6	93.10	909.0	45.5	135.00						
1200	1141.2	29.4	108.00	1126.6	36.7	134.00	1090.8	54.6	196.00						

## 2- مضخة حريق نظام الإطفاء



## مضخات ANC

### **ANC Fire Pump - E.D.J Model**

Consist of Main End Suction Pump driven by Electrical Motor, Standby End Suction Diesel Pump driven by Diesel Engine, & Vertical Jockey (used as a substitute during maintenance) Pump that all are assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. Available Flow Capacities (50, 120, 150, 250, 300, 350, 500, 750, 1000, 1200, 1500) GPM.



### **ANC Fire Pump - D.J Model**

Consist of Main End Suction Pump driven by Diesel Engine, & Vertical Jockey (used as a substitute during maintenance) Pump that all are assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. Available Flow Capacities - (50, 120, 150, 250, 300, 350, 500, 750, 1000, 1200, 1500) GPM.



### كهرباء + ديزل + مضخة تعويضية (جوكي) :-

❖ سلسلة مضخات عبارة عن مضخة حريق مجمعة تحتوي

هذه المضخة على دفاعه رئيسية يقوم بتشغيلها  
محرك كهربائي.

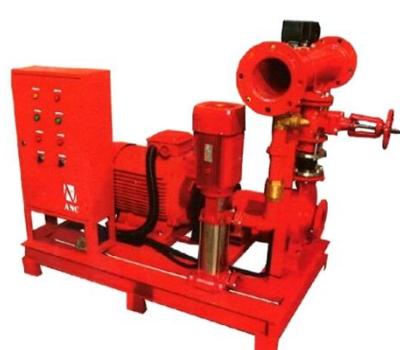
مضخة احتياطية يقوم بتشغيلها محرك ديزل ومضخة  
تعويضية (جوكي).

ويأتي من ضمن النموذج لوحة كهربائية لتشغيل  
المجموعة بالكامل.

هذه المضخة تحتوي على محبس للدفع وخط للدفع  
وبباقي الأكسسوارات الخاصة بالمضخة.

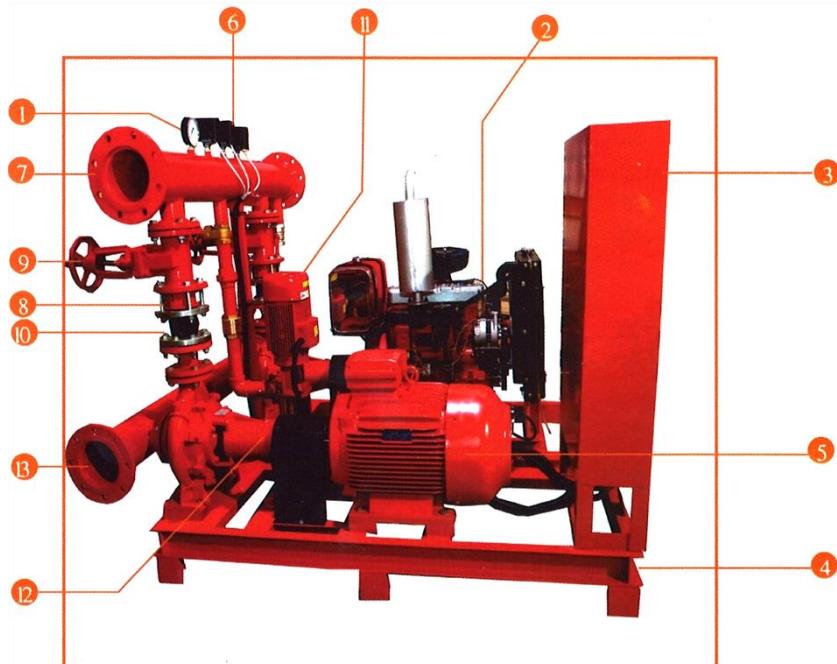
### **ANC Fire Pump - E.J Model**

Consist of Main End Suction Pump driven by Electrical Motor, & Vertical Jockey (used as a substitute during maintenance) Pump that all are assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. Available Flow Capacities - (120, 150, 250, 300, 350, 500, 750, 1000, 1200, 1500) GPM.





## Specification



### ANC Skid Model - E.D.J

TYPE	(GPM)	W (mm)	H (mm)	L (mm)	Motor (HP)	Diesel (HP)	Jockey (HP/GPM)	(KG)	HEADER PIPE
EDJ	1000	2000	1400	2000	100	100	10/100	1500	6"
EDJ	750	2000	1350	1850	75	75	7.5/75	1200	6"
EDJ	500	1500	1500	1750	50	55	5.5/50	1095	6"
EDJ	350	1450	1310	1600	30	36	4/40	950	4"
EDJ	250	1450	1310	1600	25	27	4/40	870	4"
EDJ	150/120	1200	1350	1100	15/10	12	4/40	780	3"

### ANC Skid Model - E.J

TYPE	(GPM)	W (mm)	H (mm)	L (mm)	Motor (HP)	Jockey (HP/GPM)	(KG)	HEADER PIPE
E.J	750	1000	1400	1650	75	7.5/75	700	6"
E.J	500	1000	1400	1200	50	5.5/50	640	6"
E.J	350	850	1310	1100	30	4/40	500	4"
E.J	300/250	800	1200	1000	25	4/40	432	4"
E.J	150	800	1200	1000	15	4/40	310	3"
E.J	120	800	1200	1000	10	4/40	280	2.5"

### ANC Skid Model - D.J

TYPE	(GPM)	W (mm)	H (mm)	L (mm)	Diesel (HP)	Jockey (HP/GPM)	(KG)	HEADER PIPE
D.J	750	1100	1760	1700	75	7.5/75	850	6"
D.J	500	1000	1670	1600	55	5.5/50	730	6"
D.J	350	850	1480	1250	36	4/40	620	4"
D.J	250	800	1420	1220	27	4/40	540	4"
D.J	150/120	800	1200	900	12	4/40	480	2"
D.J	50	800	1100	900	10	4/40	350	1.5"

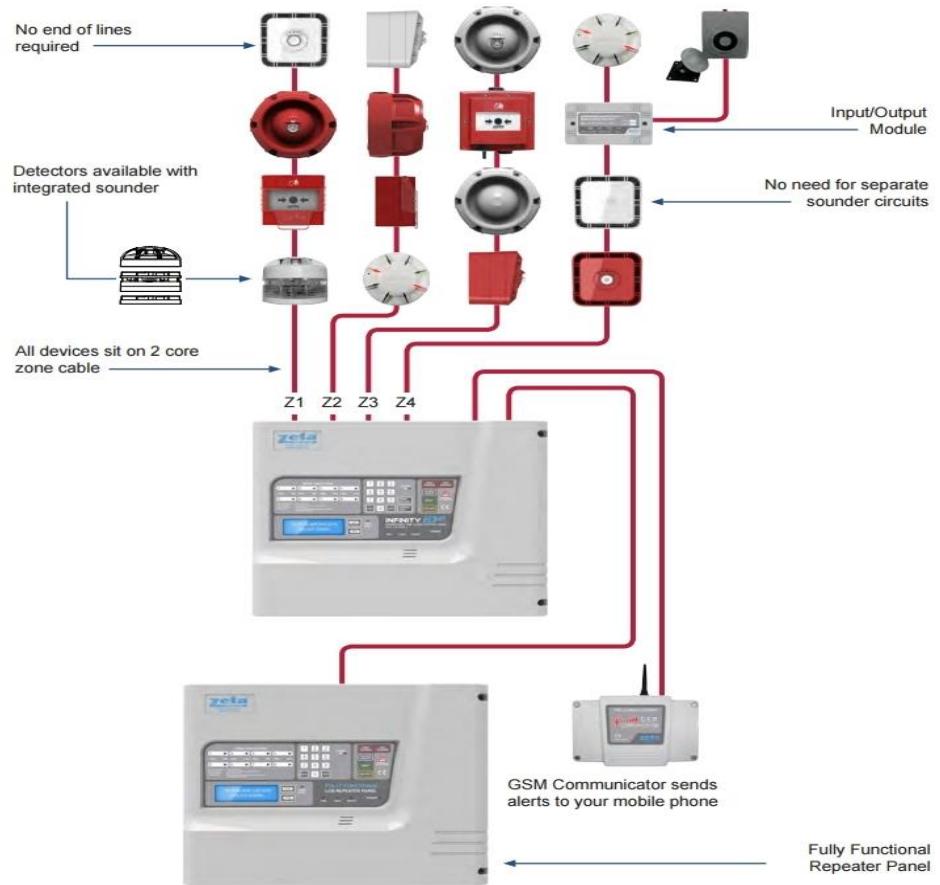
Note: These are our standard models. Other specifications are also available as per customer request.

## 3- نظام الإنذار الحريق

Aجهزة نظام الإنذار Fire Alarm Component



# ZETA Alarm System



سلك الانذار -1

نوع مسک Listed UL&FM سعودي MESC ♦

### **FIRE RESISTANT CABLE 300/500V**

SCREENED, LOW SMOKE HALOGEN FREE SHEATH

SPECIFICATION: BS 7629-1, BS 5839-1, BS EN 50200 & BS 6387



#### **APPLICATION**

Used for fire alarm system, voice alarm system, emergency lighting system for the building.

#### **CONSTRUCTION**

Conductor	Plain annealed solid copper as per class 1 of IEC 60228.
Insulation	Cross-Linked Thermosetting Type EI 2 as per BS EN 50363-1.
Color Code	Two core : Brown & Blue. Three core : Brown, Black & Grey. Four core : Blue, Brown, Black & Grey.
Assembly	Cores are assembled in the color sequence as mentioned above, A nonmetallic tape is applied over the assembly.
Screen	A laminated metallic tape, with minimum metal part of 10 µm is applied longitudinally with a minimum overlap of 1 mm and firmly bonded to the outer sheath. Metallic element of tape is in contact with the uninsulated circuit protective conductor. Protective conductor is annealed tinned copper with the same nominal cross section as the circuit conductor.
Outer Sheath	Extruded Red Low smoke Halogen free compound Type LTS3 as per BS 7655-6.1.
Marking Example	MESC PYRO-SI Size 300/500 V BS 7629-1.

#### **TECHNICAL DATA**

Temp Range	-20°C to 105°C
Voltage Grade	300/500 V
Dielectric strength test	2000 V <sub>ac</sub> for 1 minute [core to core & core to screen]

#### **FIRE PERFORMANCE**

Fire resistance	BS 6387 C W Z, BSEN 50200 PH30 & BSEN 50200 Annexure E
Flame retardance	IEC 60332-1-2 on single core and IEC 60332-3-24 [CAT C] for bunch cable.
Corrosive & acid gas emission	≥ 0.5 % (BS EN 50267-2-11)
Smoke Emission (Transmission value)	≥ 80 % (BS EN 61034-2)
Limiting Oxygen index (outer sheath)	≥ 30% (ASTM D2863)

NO OF CORES	CONDUCTOR AREA (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)	APPROX OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)	CONDUCTOR RESISTANCE AT 20 °C (MAX.) Ω/Km
2	1	0.6	0.9	7.6	82	18.1
3	1	0.6	0.9	8.0	100	12.1
4	1	0.6	1.0	8.8	120	7.41
2	1.5	0.7	0.9	8.5	105	18.1
3	1.5	0.7	0.9	9.0	131	12.1
4	1.5	0.7	1.0	9.9	160	7.41
2	2.5	0.8	1.0	9.9	151	18.1
3	2.5	0.8	1.0	10.5	187	12.1
4	2.5	0.8	1.1	11.5	230	7.41

Packing: Packing is available in Coil/Reel/Drum with Meters/Yards/Feet.  
Other lengths are available upon request.

\* Available colours: Red, White and Black



## -2 المواسير الصلب EMT



### EMT -3M

#### Product Specifications

PARTS	DIMENSION		THICKNESS	PER BUNDLE
Code No.	in	mm	mm	QTY.
EMT-001	1/2"	17.93	0.8mm	150
EMT-002	1/2"	17.93	1.0mm	150
EMT-003	3/4"	23.42	0.8mm	100
EMT-004	3/4"	23.42	1.2mm	100
EMT-005	1"	29.54	0.8mm	50
EMT-006	1"	29.54	1.2mm	50
EMT-007	2"	55.8	1.0mm	23

Conduit comes in many styles and is used to run electrical wiring in exposed locations in and around your home. It may be a basement, garage, barn, laundry areas, and also exposed areas. Your home may have conduit run inside of the walls, giving you access to pull additional circuits through the existing conduit runs later on. EMT conduit is lightweight, easy to bend, and is use within the walls.

Stranded or solid wire is usually pulled through conduit and is usually either THHN or THWN type wire. The [size of the wire](#) may vary, depending on the amount of amperage needed to supply the point you are feeding, and this ultimately determines the size of the conduit that you will need to install.

Conduit that is installed outdoors must be rated for exterior use. PVC conduit is often used in underground and wet location applications. This type of conduit has its own PVC fittings, connectors, couplings, and elbows. They are easy to attach to one another with a cleaner and PVC glue. Since PVC conduit is not conductive, you should always run a green ground wire in the conduit for proper grounding methods at connection points.

## NEER Zinc Set Screw Connectors and Couplings

### TC-500: Couplings

#### Application

- To join lengths of steel EMT for concretetight or dry location applications.

#### Features

- Concretetight when taped.
- Pre-set/pre-staked set screws.
- Combination head set screws.

#### Material/Finish

- Zinc die cast

#### Certifications and Compliances

- UL Standard: 514B
- UL Listed: E35001
- CSA Standard: C22.2 No. 18.3
- CSA Certified: 208044
- NEMA: FB-1

Note:

- TC-511, 512 and 513 are single set screw each end. TC-514, 515, 516, 517, 518, 519 and 520 are double set screw each end.



TC-511

### TC-500: Connectors

#### Application

- To secure and terminate steel EMT to knockouts in concretetight box or dry location applications.

#### Features

- Concretetight when taped.
- Pre-set/pre-staked set screws.
- Combination head set screws.
- Male hub threads — NPS.
- Available with insulated throat.
- Furnished with locknut.

#### Material/Finish

- Zinc die cast

#### Certifications and Compliances

- UL Standard: 514B
- UL Listed: E35001
- CSA Standard: C22.2 No. 18.3
- CSA Certified: 208044
- NEMA: FB-1

Note:

- TC-501, 502 and 503 are single set screw. TC-504, 505, 506, 507, 508, 509 and 510 are double set screw. TCI-501, 502, and 503 are single set screw. TCI-504, 505, 506, 507, 508, 509 and 510 are double set screw.



TC-501

Trade Size (Inches)	Dimensions in Millimeters (Inches)				Catalog Number
	Body Length	Maximum Diameter	Weight per 100 kg (lb)		
1/2	38.1 (1.50)	26.7 (1.05)	8.62 (19.00)		TC-511
5/8	41.8 (1.60)	26.5 (1.02)	11.34 (25.00)		TC-512
1	50.8 (2.00)	38.9 (1.53)	17.69 (39.00)		TC-513
1-1/4	63.5 (2.50)	50.3 (1.98)	39.92 (88.00)		TC-514
1-1/2	72.9 (2.87)	55.9 (2.20)	47.17 (104.00)		TC-515
2	87.4 (3.44)	68.3 (2.69)	67.59 (149.00)		TC-516
2 - 1/2	101.9 (4.01)	84.6 (3.33)	108.86 (240.00)		TC-517 ①
3	113.8 (4.48)	101.1 (3.98)	158.76 (350.00)		TC-518 ①
3 - 1/2	125.2 (4.93)	113.8 (4.48)	215.46 (475.00)		TC-519 ①
4	132.8 (5.23)	126.5 (4.98)	272.16 (600.00)		TC-520 ①

① For EMT and threadless rigid metal conduit and IMC.

Trade Size (Inches)	Dimensions in Millimeters (Inches)				Catalog Number	Insulated Throat Catalog Number
	Body Length	Maximum Diameter	Thread Length			
1/2	29.2 (1.15)	10.2 (0.40)	26.7 (1.05)		TC-501	TCI-501
5/8	35.8 (1.41)	11.7 (0.46)	37.8 (1.29)		TC-502	TCI-502
1	39.6 (1.56)	13.5 (0.53)	38.4 (1.51)		TC-503	TCI-503
1-1/4	50.0 (1.97)	15.7 (0.62)	50.3 (1.98)		TC-504	TCI-504
1-1/2	56.1 (2.21)	18.5 (0.73)	55.9 (2.20)		TC-505	TCI-505
2	63.8 (2.51)	19.3 (0.76)	68.3 (2.69)		TC-506	TCI-506
2 - 1/2	78.7 (3.10)	26.4 (1.04)	84.6 (3.33)		TC-507 ①	TCI-507 ①
3	86.1 (3.39)	26.9 (1.06)	101.1 (3.98)		TC-508 ①	TCI-508 ①
3 - 1/2	90.4 (3.56)	26.9 (1.06)	113.8 (4.48)		TC-509 ①	TCI-509 ①
4	96.0 (3.78)	28.2 (1.11)	126.5 (4.98)		TC-510 ①	TCI-510 ①



Safety Gateway