



الشركة الدولية لأنظمة الأمن والسلامة  
International Security & Safety Systems Co.

# **AQUA FIRE PUMPS**

## **CE mark**



## Our History

- 1989** ISS has been serving industrial, commercial, government and oil & gas sites in the field of fire and security systems as a specialized contractor and agent for many international firms.
- 2001** ISS opened its manufacturing facility, located in AL OBOUR city, which provides blending foam concentrates, packaging of fire pumps approved by Egyptian civil defense and NRC, Co2/Dry powder systems, assembly and piping fabrication for firefighting systems.
- 2003** ISS has been awarded the first UL approval in Egypt & Africa on blending AFFF, AR/AFFF, and FP Foam concentrates under license from Chemguard-USA.
- 2012** ISS has been approved to package UL/FM fire pumps in Egypt, in the cooperation of EPE & PTEI.
- 2014** ISS has been awarded UL approval of aboveground tank for flammable liquids.
- 2015** ISS expands its UL/FM pump range to 2800 and 3560 RPM for 60 HZ. countries.
- 2016** ISS has been awarded the ASME certificate - "U-stamp" as a first step to apply on UL for bladder tanks.
- 2017** ISS was the first Egyptian factory to receive the UL listing on their ASME and CE Bladder tanks.
- 2019** ISS has been awarded UL/FM approval of range (24-420 GPM) Foam pump -OEM- with Firelion.
- 2020** ISS has been awarded ISO 9001:2015, ISO 14001:2015, ISO 45001:2018.
- 2021** ISS has been awarded UL Listed "AutoFirex" Cylinder for DLP System.
- 2022** ISS has been approved as "HYGOOD" FM200 Filling Station - UL/FM (First Fill/Refill).
- 2024** ISS has been awarded the UL Approval for blending AFFF, AR/AFFF, FP, FFFP, and AR/FFFP Foam Concentrates under license from FIRECHEM-INDIA.
- 2025** ISS has been awarded the UL/FM in cooperation with NMFIRE Pumps for (200-5000gpm) Fire pump package.
- ISS has been approved as "HYGOOD" Sapphire Filling Station - UL/FM (First Fill/Refill).
- ISS has received the UL Listing for Foam discharge devices (Foam Chambers and Foam Pourers).
- ISS has received the UL Listing for Bladder Tanks with Free Flourine Foam in cooperation with JCI-International.

## Specialized in:

- Fire Detection Systems.
- Flame & Gas Detection Systems.
- Automatic Sprinkler Systems.
- Foam Extinguishing Systems.
- Fire Pumps Packages.
- CO2 / FM200 / SAPPHIRE / INERGEN Systems.
- Dry Chemical Systems.



## The Ministry Of Industry Certificate



## ISO Certificates



## Certificate



### شهادة سجل صاعى

رقم السجل: ٢٠٠١/٢٨٩٨٢

تاريخ الانتهاء: ٢٠٢١/١٢/٠٥

تاريخ الاصدار: ٢٠١٩/١١/٢٨

اسم المنشأة الصناعية: الدولية لانظمة الأمن والسلامة

اسم الشركة:

الكيان القانوني: قطاع خاص/مساهمة

السمة التجارية:

قطاع رقم ٢٥/ بلوك ١٢٠٤٠/ المنطقة الصناعية أ/ مدينة العبور/ القليوبية

عنوان المنشأة الصناعية:

13404

الطاقة الإنتاجية الإسمية السنوية الكمية وعدد الورديات	الوحدة	كود المنتج	اسم المنتج
٢٠٠ (مئتان)	عدد	٨٤١٣٧٠٢٠٢٠	تصنيع وتجميع مضخة حريق تعمل بموتور كهربائي سعات من ٥٠ الى ٥٠٠٠ جالون / دقيقة
٤٠٠ (اربعمائة)	عدد	٨٤٢٤١٠٠٠٤٠	تصنيع وتجميع أنظمة اطفاء بالغازات والبودرة والرغوة والمياه
١٥٠٠ (الف وخمسمائة)	طن	٢٨١٣٠٠٠٥٠	تصنيع مادة رغوية للإطفاء FP/ARAFFFF/AFFF
٦٠٠ (ستمائة)	عدد	٨٤٢٤١٠٠٠٥٠	تصنيع صندوق حريق من الصاج بمشتملاته
٤٠٠ (اربعمائة)	عدد	٨٤٢٤١٠٠٠٣٠	تصنيع وتجميع عربية رغوطة سعات مختلفة
٧٥ (خمسة وسبعون)	عدد	٨٤١٣٧٠٢٠٢٠	تصنيع وتجميع أنظمة مضخات حريق سعات من ٥٠ الى ٥٠٠٠ جالون / دقيقة بمضخات تعمل بمحركات ديزل وكهرباء
٤٠٠ (اربعمائة)	عدد	٨٥٢١١٠١٠٠٠	تصنيع وتجميع أنظمة إنذار حريق

(استكمال مدة) الشهادة سارية لمدة تنتهى فى ٢٠٢١/١٢/٠٥ طبقا لانتهاه القيد

والله اعلم  
رئيس مجلس ادارة

ع الب



حررت هذه الشهادة وفقاً لأحكام القانون رقم ٢٤ لسنة ١٩٧٧، ولائحته التنفيذية وتعديلاتها والقرارات المنظمة له، ووفقاً للبيانات والمستندات المقدمة من المنشأة المذكورة ويرتبط سريان هذا السجل باستمرار صحة المستندات الصادرة عنه، ولا تخول هذه الشهادة لصاحبها أى حقوق تتعلق بملكية المنشأة.

صفحة رقم ١ من ٢



حررت هذه الشهادة وفقاً لأحكام القانون رقم ٢٤ لسنة ١٩٧٧، ولائحته التنفيذية وتعديلاتها والقرارات المنظمة له، ووفقاً للبيانات والمستندات المقدمة من المنشأة المذكورة ويرتبط سريان هذا السجل باستمرار صحة المستندات الصادرة عنه، ولا تخول هذه الشهادة لصاحبها أى حقوق تتعلق بملكية المنشأة.

## Certificate

### AQUA Fire Pumps range (100 - 5000) gpm

#### Declaration of Compliance

This Declaration of Compliance is hereby issued for the

**Applicable Directive(s):**  
2006/42/EC- Machinery Directive,  
2014/35/EU- Low Voltage (LVD).

In accordance with the following applicable standards:  
EN 19353:2019, EN 1028-2:2002+A1:2008,  
EN 1846-2:2009+A1:2013, EN 14044:2014  
EN 14466:2005+A1:2008, EN 14710-2:2005+A2:2008  
EN 50267-2-3:1998, EN 60332-3-25:2018.

#### General Information

**Applicant** — ISS CO SAE.  
International Security & Safety Systems.  
49-Abbass El Akaad Street Nasr City- Cairo-Egypt.

**Manufacturer** — Same as Above

**Product Name** — AQUA Fire Pumps / Controllers

**Product Description** — AQUA Range of Fire Pumps.  
Horizontal Split Case and End Suction Fire Pumps  
Packages ( Electric, Diesel and Jockey Pumps)  
Ranges from (100-5000 gpm ) using ICON Touch  
Screen, LEGACY + Controllers or LEGACY Standard  
Controllers. Specifications as per EN Standards or  
NFPA20 code. Special Controllers for  
(Submersible/Booster/Gear- Positive Displacement  
Foam Concentrate/Dosing) Pumps and Systems.

**Certificate Number** : EG682554

This certificate is valid from 08-Apr-2023 until 07-Apr-2024

#### This Certificate is issued under following conditions:

The product is declared by the applicant as complying with the applicable directives. UR has performed a review of the technical information of the product. The applicant is required to inform UR of any changes to its product design and technical documentation. The CE mark may be used by the applicant, for this product, under the sole responsibility of the applicant.

.....  
Certification Manager

### UNIVERSAL REGISTRARS

[www.universalregistrars.com](http://www.universalregistrars.com)

Level 18, 40 Bank Street,  
Canary Wharf, London E14 5NR, UK.  
**Email ID:** [info@universalregistrars.com](mailto:info@universalregistrars.com)

This certificate can be verified at the above URL.  
The certificate remains the property of Universal Registrars, to whom it  
must be returned on request. Lack of fulfillment of certification terms  
and conditions at all times, may render this certificate invalid.

The product liability rests with the manufacturer in accordance with their committed specifications and contractual obligations, including applicable standards. The CE mark shown above is for reference only and does not indicate accreditation. Universal Registrars does not accept any liability arising out of this certificate.

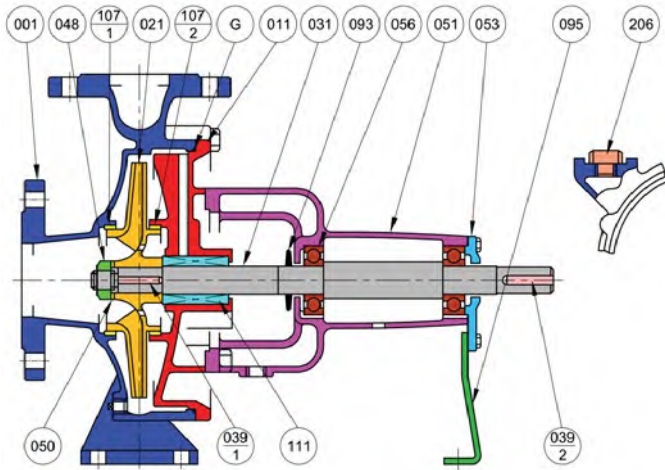


Issued on 25-Mar-2021

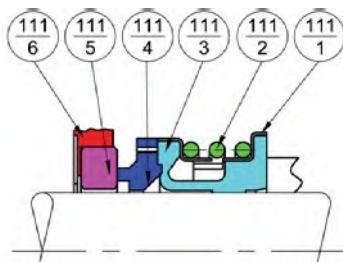


CE Compliance

## AQUA- End Suction Fire Pumps



G	O-Ring	Rubber	1	
206	Plug	Steel		
111	Mechanical Seal	-		
1072	Casing Ring	Bronze		
1071	Casing Ring			
095	Bearing Support	Steel		
093	Deflector	Rubber		
056	Ball Bearing	-		2
053	Bearing Cover	Cast Iron		1
051	Bearing Housing			
050	Impeller Nut Washer	Brass		
048	Impeller Nut			
0392	Coupling Key	Stainless Steel		
0391	Impeller Key			
031	Shaft			
021	Impeller	Bronze		
011	Casing Cover	Cast Iron		
001	Casing			
No.	Part Name	Material	Qty	

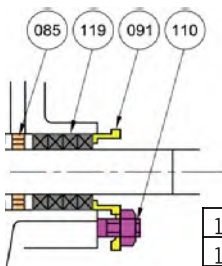


### Mechanical Seal Type (Standard)

1116	Cup Gasket	NBR	1
1115	Matting Ring	Ceramic	
1114	Seal Ring	Carbon	
1113	Bellows	NBR	
1112	Coil Spring	Stainless Steel	
1111	Spring Holder		
No.	Part Name	Material	Qty

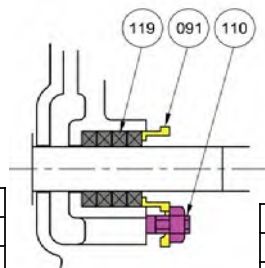


### Gland Packing Type (Optional)



#### With Lantern Ring

119	Gland Packing	Non -Asbestos	4 or 5
110	Gland Bolt	Brass	2
091	Gland	Bronze	1
085	Lantern Ring		
No.	Part Name	Material	Qty



#### Without Lantern Ring

119	Gland Packing	Non-Asbestos	4 or 5
110	Gland Bolt	Brass	2
091	Gland	Bronze	1
No.	Part Name	Material	Qty

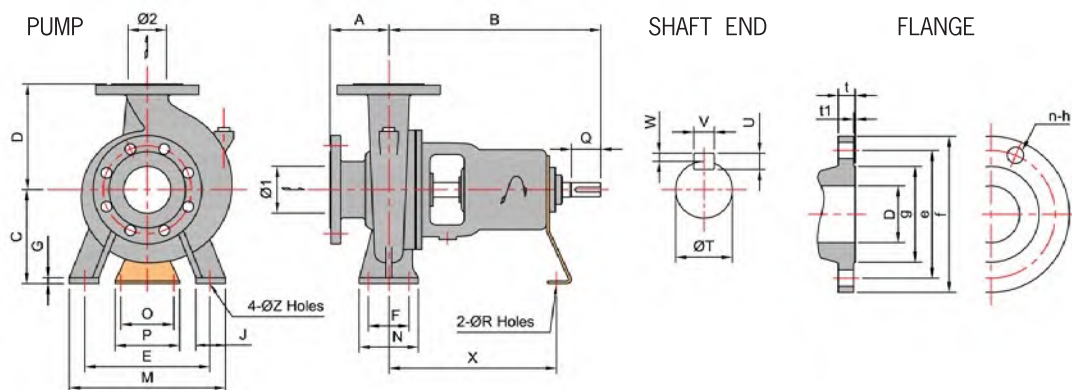
#### Pump Model:

50x40 FSHA; 65x50 FSHA, FSJA;  
80x65 FSGA, FSHA;  
100x80 FSGA; 125x100 FSLA;  
150x100 FSKA, FSNA;  
150x125 FSKA, FSLA;  
200x150 FSJA, FSLA, FSNA;  
250x200 FSLA, FSNA.

#### Pump Model:

80x65 FSJA, FSKA;  
100x65 FSKA;  
100x80 FSHA, FSJA, FSGCA, FSHCA;  
125x100 FSJCA, FSKA;  
150x125 FSHA, FSJA  
200x150 FSHA, FSKA.

## Dimension



Flanges Dimensions (JIS10K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
40	140	105	81	2	20	4	19
50	155	120	96	2	20	4	19
65	175	140	116	2	22	4	19
80	185	150	126	2	22	8	19
100	210	175	151	2	24	8	19
125	250	210	182	2	24	8	23
150	280	240	212	2	26	8	23
200	330	290	262	2	26	12	23

Flange Dimensions (JIS 16K RF)

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
65	175	140	116	2	22	8	19
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

### Pump Dimensions

MODEL	SIZE		FLANGE STANDARD	PUMP													SHAFT					Wt Kg		
	Φ1	Φ2		A	B	C	D	E	F	G	J	M	N	O	P	R	X	Z	T	Q	U		V	W
50x40 FSHA	50	40	JIS 10K	80	360	160	180	190	70	12	50	240	100	110	150	17	285	15	24	50	7	8	4	37
65x50 FSHA	65	50	JIS 10K	100	360	160	180	212	70	12	50	265	100	110	150	17	285	15	24	50	7	8	4	42
65x50 FSJA				100	360	180	225	250	95	14	65	320	125	110	150	17	285	15	24	50	7	8	4	49
80x65 FSGA	80	65	JIS 10K	100	360	160	180	212	70	12	50	265	100	110	150	17	285	15	24	50	7	8	4	39
80x65 FSHA				100	360	160	200	212	70	12	50	265	100	110	150	17	285	15	24	50	7	8	4	48
80x65 FSJA				100	350	180	225	250	95	14	65	320	125	110	150	17	285	15	32	80	8	10	5	60
80x65 FSKA				125	470	225	280	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	108
100x65 FSKA	100	65	JIS 16K	125	360	225	280	315	120	16	80	400	160	110	150	17	285	19	38	80	8	10	5	106
100x80 FSGA	100	80	JIS 10K	100	360	160	200	212	95	14	65	280	125	110	150	17	285	15	24	50	7	8	4	49
100x80 FSHA				100	360	180	225	250	95	15	65	320	125	110	150	17	285	15	32	80	8	10	5	62
100x80 FSJA				100	360	200	250	280	120	15	80	360	160	110	150	17	285	19	32	80	8	10	5	70
100x80 FSGCA				125	360	180	225	250	95	14	65	320	125	110	150	17	285	15	32	80	8	10	5	62
100x80 FSHCA				125	360	180	250	280	95	14	65	345	125	110	150	17	285	15	32	80	8	10	5	65
125x100 FSJCA	125	100	JIS 10K	140	360	225	280	315	120	16	80	400	160	110	150	17	285	19	38	80	8	10	5	108
125x100 FSKA				140	470	250	315	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	128
125x100 FSLA				140	530	280	355	400	150	20	100	500	200	110	150	17	370	24	42	110	8	12	5	168
150x100 FSKA	150	100	JIS 16K	140	530	250	315	315	120	16	80	400	160	90	120	15	373	19	42	95	8	12	5	146
150x100 FSNA				180	670	375	450	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	5.5	365
150x125 FSHA	150	125	JIS 10K	140	470	250	315	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	120
150x125 FSJA				140	470	250	355	315	120	16	80	400	160	110	150	17	370	19	32	80	8	10	5	128
150x125 FSKA				140	530	280	355	400	150	16	100	500	200	110	150	17	370	24	42	110	8	12	5	170
150x125 FSLA				140	530	315	400	400	150	20	100	500	200	110	150	17	370	24	42	110	8	12	5	205
200x150 FSHA	200	150	JIS 10K	160	470	280	355	400	150	18	100	500	200	110	150	17	370	24	32	80	8	10	5	137
200x150 FSJA				160	530	280	375	400	150	18	100	500	200	110	150	17	370	24	42	110	8	12	5	183
200x150 FSKA				160	670	315	400	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	5.5	222
200x150 FSNA	200	150	JIS 16K	162	670	315	450	450	150	20	100	550	200	140	180	19	500	24	48	110	9	14	5.5	336
250x200 FSLA				182	670	375	560	450	150	20	100	550	200	140	180	19	500	24	60	110	11	18	7	488
250x200 FSKA	250	200	JIS 16K	180	670	385	560	560	250	25	100	660	315	140	180	19	500	24	60	110	11	18	7	505
250x200 FSNA				200	820	435	630	560	250	25	100	660	315	160	200	19	630	27	74	125	12	20	8	642

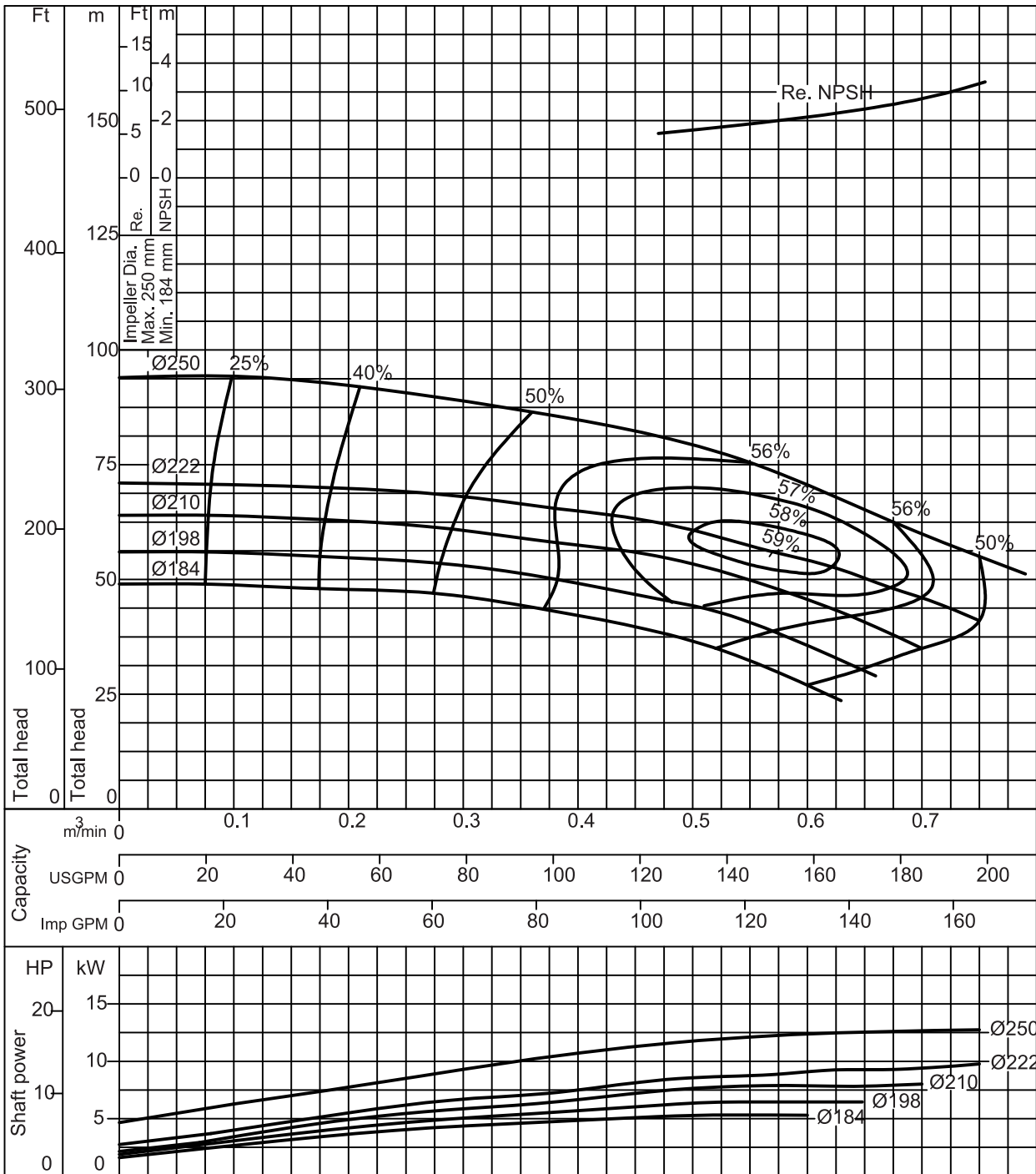
Unit : mm, unless otherwise stated



Performance Curve

50Hz

<b>EGY - 65X50FS2J</b>	<b>CE Mark</b>
50Hz (Approx. speed 2900min <sup>-1</sup> )	S.G.= 1.0 Vis.= 1.0 cSt



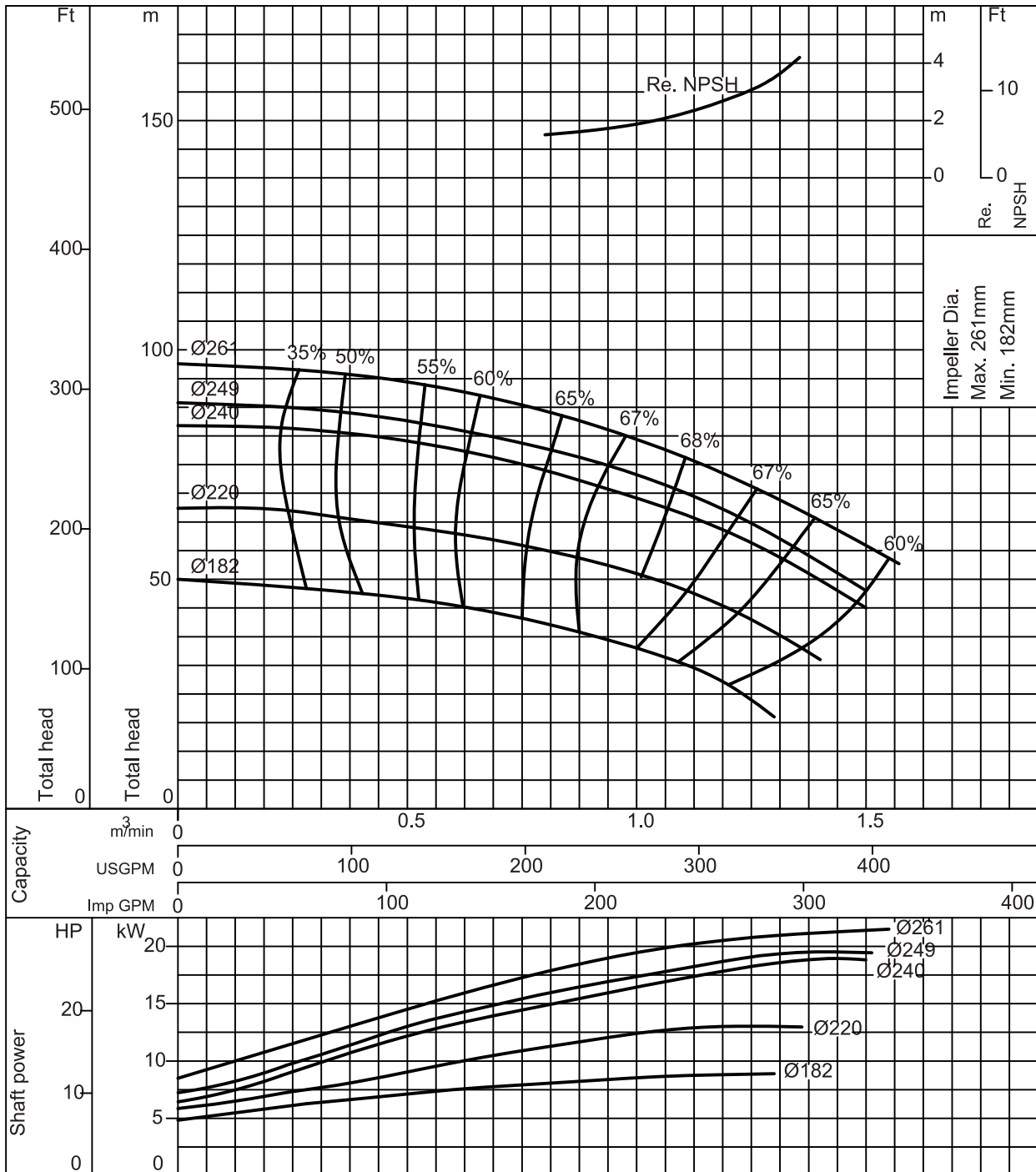
Curve No - 2 - 5FS5603



Performance Curve

50Hz

<b>EGY - 80X65 FS2JA</b>	<b>CE Mark</b>
50Hz (Approx. speed 2900min <sup>-1</sup> )	S.G.= 1.0 Vis.= 1.0 cSt



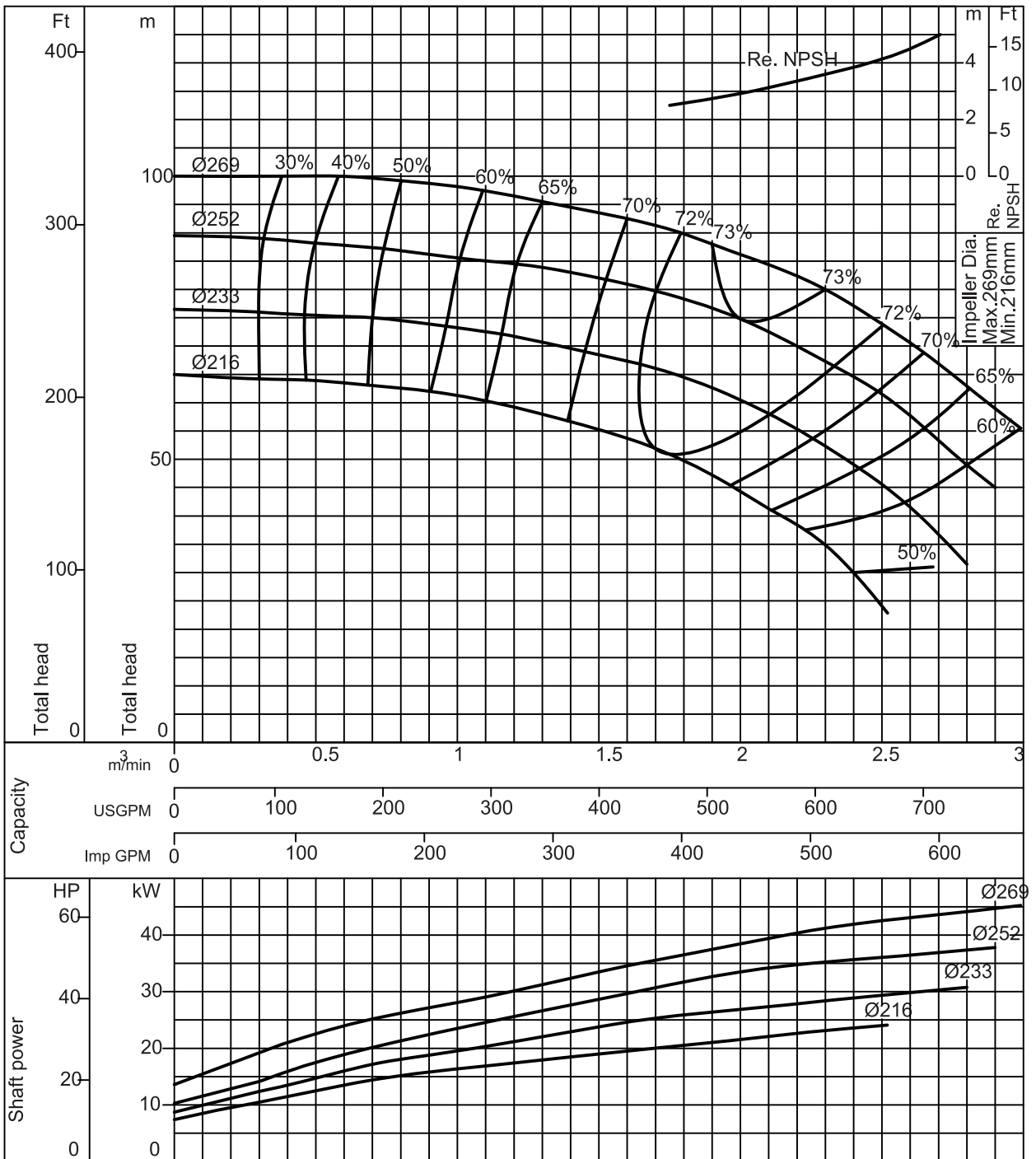
Curve No - 2 - 5FS5606



Performance Curve

50Hz

<b>EGY - 100X80 FS2JA</b>	<b>CE Mark</b>
50Hz (Approx. speed 2900min <sup>-1</sup> ) S.G.= 1.0 Vis.= 1.0 cSt	



Curve No - 2 - 5FS5609



Performance Curve

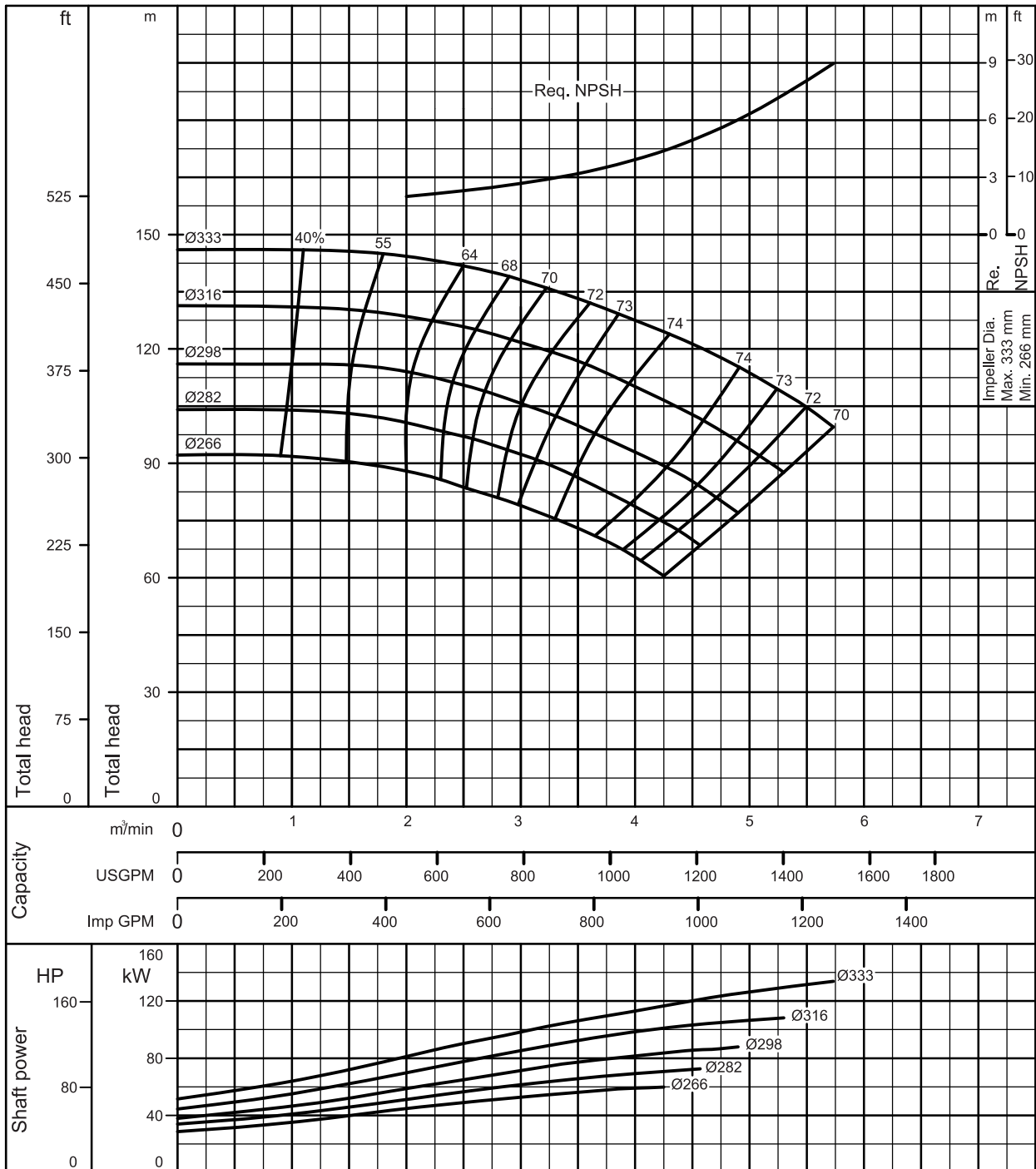
50Hz

EGY - 150 x 100 FS2KA



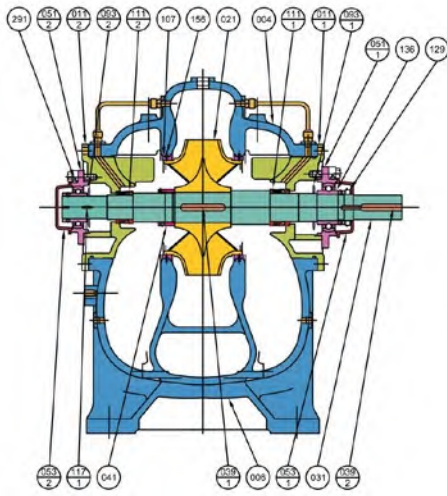
50Hz (Approx. speed 2900 min<sup>-1</sup>)

S.G.= 1.0 Vis.= 1.0 cSt



Curve No - 2 - 5FS5614

## AQUA - Horizontal Split Case Fire Pumps



No	Part Name	Material	Qty
004	Casing Upper Half	FC250	1
006	Casing Lower Half		
0111	Side Cover (CP Side)		
0112	Side Cover (CCP Side)		
021	Impeller	BC6	
031	Shaft	316 Stainless Steel	
0391	Impeller Key		
0392	Coupling Key	S50C	
041	Impeller Nut	BC6	
0511	Bearing Unit (CP Side)	FC200	
0512	Bearing Unit (CCP Side)		
0531	Bearing Cover (CP Side)		
0532	Bearing Cover (CCP Side)		
0931	Deflector (CP Side)	Rubber	
0932	Deflector (CCP Side)		
107	Casing Wear Ring	BC6	2
1111	Mechanical Seal (CP Side)	-	1
1112	Mechanical Seal (CCP Side)	-	
1171	Gasket (Casing)	V#6500	
129	Bearing Nut	SS400	
136	Bearing Washer		
156	Lock Pin	304 Stainless Steel	2
291	Grease Nipple	C3604BDF	

### Specification

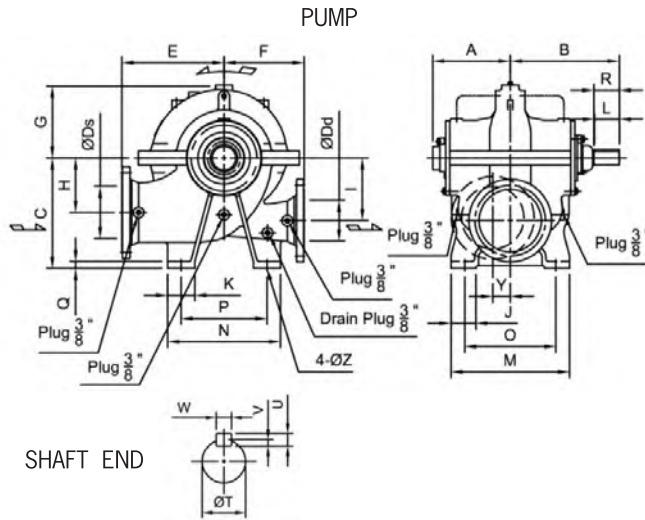
Decryptions		Standard
Model		CSA/CNA
Liquid Handle	Type of Liquid	Fresh Water, Industrial Water, River Water
	Temperature	Below 80°C (170°F)
Max. Working Pressure		16 Bar
Construction	Shaft Seal	
	Bearing	Ball Bearing
	Lubrication	Grease
Material	Casing	Cast Iron
	Impeller	- Bronze - SCS 13 For Model : 250x150 CMA, 300x150 CNJA & 300x200 CNKA
	Shaft	SUS 316
	Shaft Sleeve	-
	Mechanical Seal	SIC - Carbon
Flange	Suction	JIS 16 KRF
	Discharge	JIS 16 KRF

#### Accessories

Standard	Common Base, Shaft Coupling, Coupling Guard, Air Vent Piping, Flushing Pipe.
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# Dimension

## Bare Shaft Pump C-Type Mechanical Seal Type



Flange Dimension (JIS 16K)

D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

Model	Size		Pump																	Shaft							Weight kg
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W		
100x80 CSGA						270	240	169	140	140																143	
100x80 CSHA	100	80	221	250	295		220	185	150	160	60	70	300	290	250	230	20	70	19	56	68	28	8	5	10	165	
100x80 CSJA						280	230	202	160	180											63					200	
125x100 CSJA	125	100	247	325	375	350	280	263	200	230	90	100	430	400	350	300	25	80		80	82	38			12	280	
125x100 CNGA						290		181		150																209	
125x100 CNHA	125	100	231	350	295	300	250	195	150	160	60	70	300	290	250	230	20	-	19	80	82	38	8	5	10	242	
125x80 CNJA	125	80				330		226		190	70	80	340	320	280	250										250	
150x150 CNFA			150	262	370		330	290	205	180	170										80	82	38	8	5	10	253
150x125 CNGA				271	395		260	224		190											90	102	48	9	5.5	14	275
150x125 CNHA	150	125	262	370	355	350	280	243	190	210	80	90	380	360	310	270	25	-	19	80	82	38	8	5	10	270	
150x125 CNHA*			275	395																	95	104	48	9	5.5	14	-
150x100 CNJA			100	271	395	390	380	290	269		240	90	100	430	400	350	300			90	102	48	9	5.5	14	330	
200x200 CNEA			200				300	223		190	190															270	
200x150 CNFA			200	263	370	375	355	285	224		210	90	100	430	400	350	300	25	-	19	80	82	38	8	5	10	280
200x150 CNGA			150	282	395	390	375	295	268		230															310	
200x150 CNHA			200	282	395	390	375	295	268	200	230										90	92	48	9	5.5	14	355
200x100 CNJA			100	305	450	445	420	335	309		270	100	110	480	450	390	340			24	100	112	55	10	6	16	445
250x200 CNEA			250	273					243		210															360	
250x200 CNFA			250	282	395		395	315	247		210	100	110	480	450	390	340	25	-	24	80	97	38	8	5	10	380
250x150 CNGA			150	315	450	445	430	325	299		260															415	
250x150 CNHA			250	315	450	445	430	325	299	220	260										100	102	55	10	6	16	500
250x150 CNJA			150	350	500	495	470	355	346		300	110	120	550	520	450	400	30		24	110	124	65	11	7	18	605
250x150 CNKA			250	382	530	500	505	430	407	290	345										125	141	75	12	8	20	835
300x250 CNEA			300	302	415	475	445	355	274	235	235										90	92	48	9	5.5	14	435
300x200 CNFA			300	315	450				280																	490	
300x200 CNGA			300	315	470	495	445	355	300		270										100	102	55	10	6	16	520
300x200 CNHA			300	350	500	495	465	365	332		290										110	124	65	11	7	18	625
300x150 CNJA			300	382	530	500	520		384	250	335	110	120	550	520	450	400	30	-	24	125	141	75	12	8	20	785
300x250 CNFA			300	335	470	495	405		306		260										100	102	55	10	6	16	570
300x250 CNGA			300	360	500	520		405	313		295										110	114	65	11	7	18	620
300x250 CNHA			300	360	500	520		405	313		295										110	114	65	11	7	18	615
300x200 CNJA			300	382	530	500	525	415	379	275	320										125	141	75	12	7.5	20	860
300x200 CNKA			300	415	585	560	570	475	436	290	380	140	150	620	700	500	550	35	-	26	140	156	85	14	9	22	1070
350x300 CNFA			350	386	530	600		450	345	310	310	130									110	125	65	11	7	18	800
350x250 CNGA			350	414	560	600	560	447	350	303	303	135	150	620	700	500	550	38	-	26	125	140	75	12	7.5	20	845
350x250 CNHA			350	414	560	600	560	440	373	315	330																
400x300 CNGA			400	451	627	630	625	510	390	315	380	150		700		550	38	-			140	158	85	10	6	22	
400x300 CNHA			400	456	630	660	620	530	432	350	400	160															
400x350 CNEA			400	451	600	630	620	470	355	325	335	140		720		550	35	-			110	124	65	11	7	18	1030
400x350 CNFA			400	439	585	625	625	510	385	305	344	150		700		550	38	-			125	140	75	12	7.5	20	1035

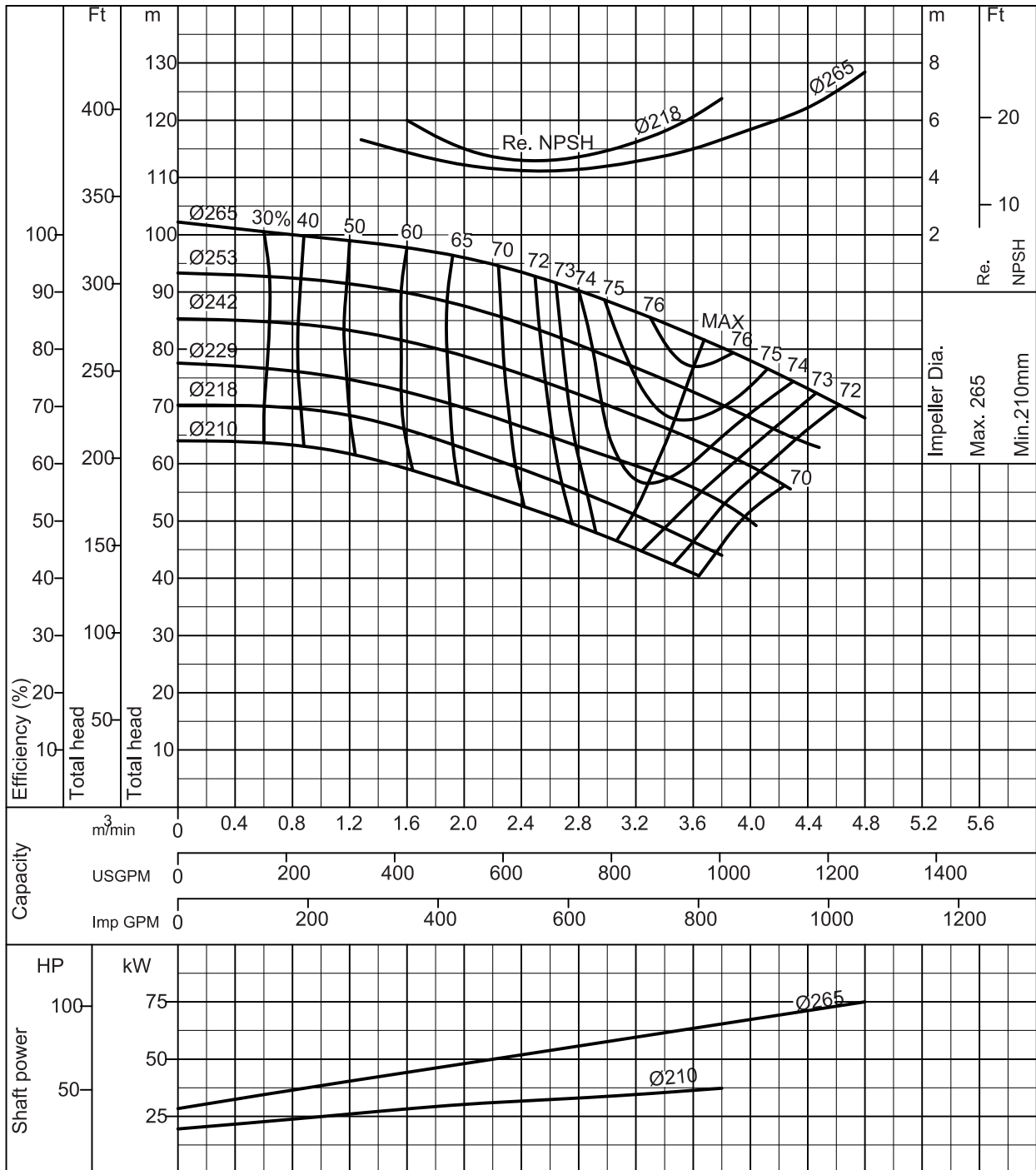
\*use for Dimension 2 Pole  
Unit : mm, unless otherwise stated



Performance Curve

50Hz

<b>EGY - 125 x 100 CNHA</b>	<b>CE Mark</b>
50Hz (Approx. speed 2900min <sup>-1</sup> )	S.G.= 1.0 Vis.= 1.0 cSt



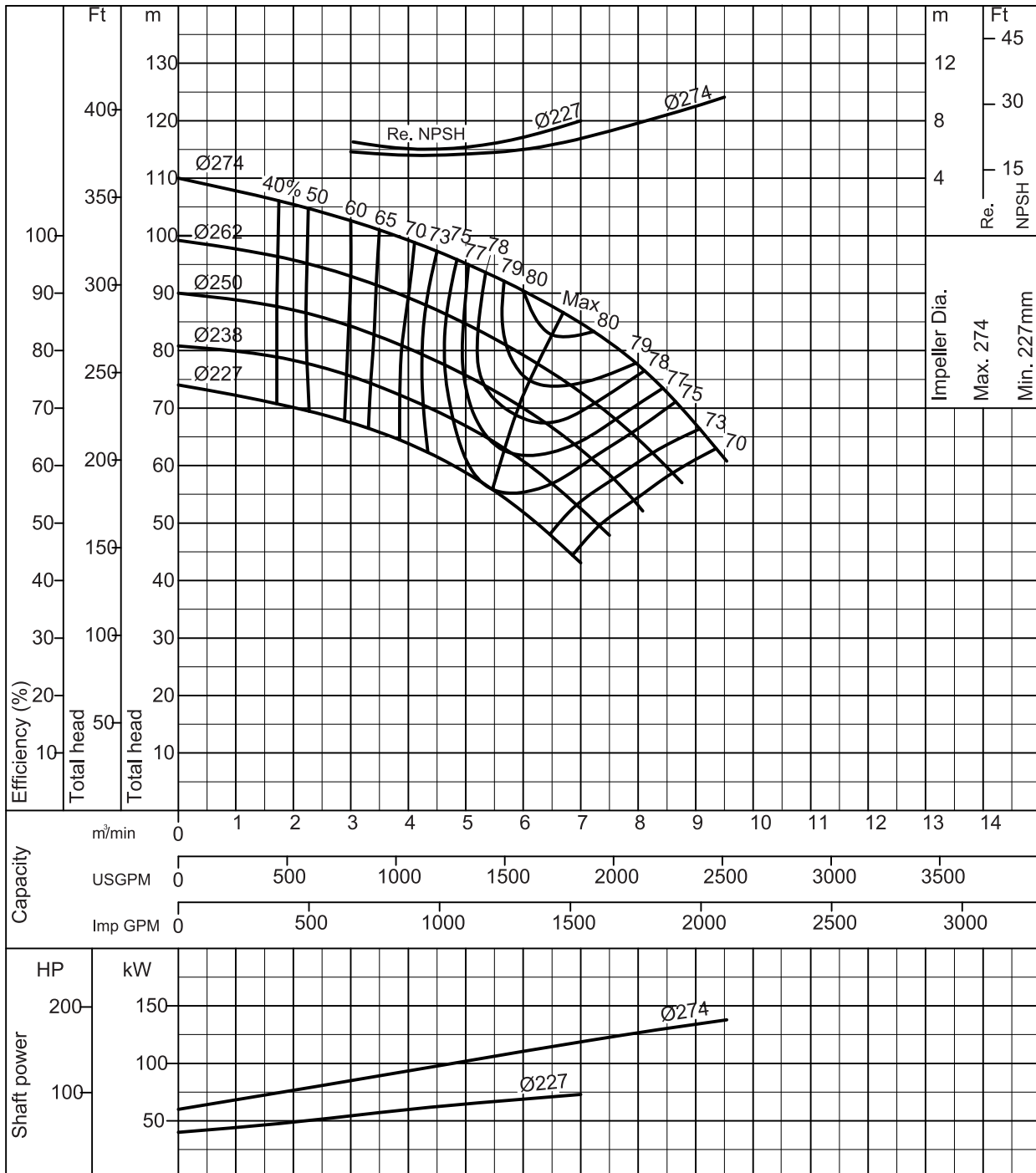
Curve No - 2 - 5FS5603



Performance Curve

50Hz

<b>EGY - 150 x 125 CNGA</b>	<b>CE Mark</b>
50Hz (Approx. speed 2900min <sup>-1</sup> )	S.G.= 1.0 Vis.= 1.0 cSt



Curve No - 2 - 5FS5603

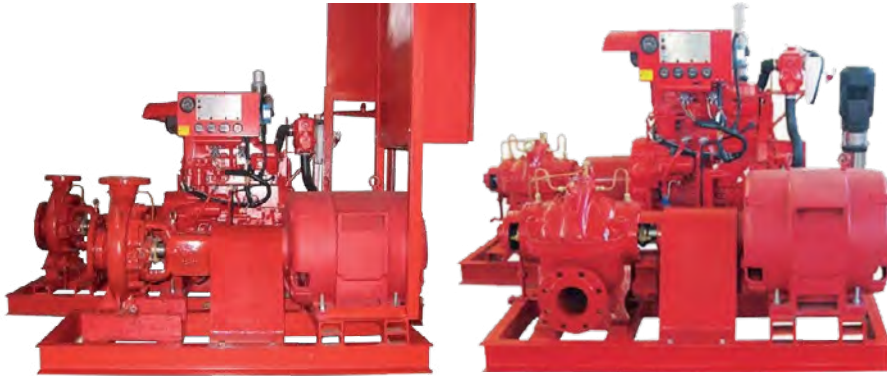
## AQUA Fire Pump Packages

AQUA is an economical solution in the Fire Pump requirements, The BHP in this selection is the power needed for the exact duty point (gpm@psi) ,unlike the NFPA standards where the fire pump shall deliver not less than 150% of the rated capacity at a pressure not less than 65% of the rated head .

### End Suction Pumps (Selection Charts)

FLOW	HEAD	PUMP	BHP	ELECTRIC MOTOR		DIESEL ENGINE (HP)	
	PSI (METER)	MODEL		RPM	HP	RPM	HP
250 GPM (57 M3/HR)	79 (55)	EGY-80 X 65 FS2JA	16	2900	20	2900	32
	87 (60)		22		25		32
	101 (70)		25		25		32
	116 (80)		29		30		32
400 GPM (91 M3/HR)	81 (55)	EGY-100 X 80 FS2JA	26	2900	30	2900	32
	100 (68.5)		33		40		48
	120 (82)		40		40		48
	137 (93.5)		46		50		48
500 GPM (113 M3/HR)	70 (47.5)	EGY-100 X 80 FS2JA	28	2900	30	2900	32
	92 (62.5)		36		40		48
	113 (77)		44		50		48
	129 (88)		51		60		63
	150 (102)	EGY-150 X 100 FS2JCAH	72	2900	75	2900	77
	168 (114)		80		100		90
750 GPM (170 M3/HR)	85 (58)	EGY-125 X 100 FS2JCAH	60	2900	60	2900	63
	97 (66)		74		75		77
	116 (79)		85		100		90
	137 (93)	EGY-150 X 100 FS2KAH	82	2900	100	2900	90
	159 (108)		93		100		111
	185 (126)		115		125		129
1000 GPM (227 M3/HR)	73 (50)	EGY-125 X 100 FS2JCAH	64	2900	75	2900	77
	90 (61)		79		100		90
	98 (72)		93		100		111
	101 (69)	EGY-150 X 100 FS2KAH	79	2900	100	2900	90
	110 (75)		93		100		111
	141 (96)		109		125		111
	166 (113)		131		150		160
	185 (126)		150		150		160

## AQUA Fire Pump Packages



### Horizontal Split Case Pumps (Selection Charts)

FLOW	HEAD	PUMP	BHP	ELECTRIC MOTOR		DIESEL ENGINE (HP)	
	PSI (METER)	MODEL		RPM	HP	RPM	HP
500 GPM (113 M3/HR)	84 (57)	EGY-125 X 100 CNHA	38	2900	40	2900	48
	93 (63.5)		41		50		48
	104 (70.5)		45		50		48
	118 (80)		51		60		63
	130 (88)		57		60		63
	142 (96.5)		62		75		63
750 GPM (170 M3/HR)	120 (80.5)	EGY-125 X 100 CNHA	68	2900	75	2900	77
	132 (90)		76		100		77
	100 (68)	EGY-150 X 125 CNGA	72	2900	75	2900	77
	112 (76)		81		100		90
	124 (84.5)		90		100		90
	137 (93)		100		100		111
	151 (103)		111		125		111
1000 GPM (227 M3/HR)	95 (64.5)	EGY-150 X 125 CNGA	78	2900	100	2900	90
	106 (72.5)		88		100		90
	119 (81)		98		100		111
	132 (90)		109		125		111
	147 (100)		122		125		129
1250 GPM (284 M3/HR)	89 (60)	EGY-150 X 125 CNGA	84	2900	100	2900	90
	101 (68.5)		95		100		111
	113 (77)		106		125		111
	126 (86)		119		125		129
	142 (96.5)		134		150		160
1500 GPM (341 M3/HR)	71 (54)	EGY-150 X 125 CNGA	91	2900	100	2900	111
	92 (63)		102		125		111
	106 (72)		114		125		129
	119 (81)		129		150		129
	136 (92)		146		150		160

## Jockey Pumps

Most piping systems generally have a small amount of leakage causing drop in system pressure.

To prevent the fire pump from starting to maintain the system pressure for this non-fire related need, a small jockey pump is applied in the system.

The jockey pump controller is pressure activated and the pump sized to maintain the system pressure at the minimum allowable leakage rate. Any pump meeting these requirements is acceptable for use as a jockey pump.

All fire pump manufacturers supply non-approved jockey pumps since no listing is available.

ISS presents the new EBARA EVM vertical multistage centrifugal pumps manufactured in cast iron (EVMG),

Three Models are available:

**EVMG3 13N51.5/HP**

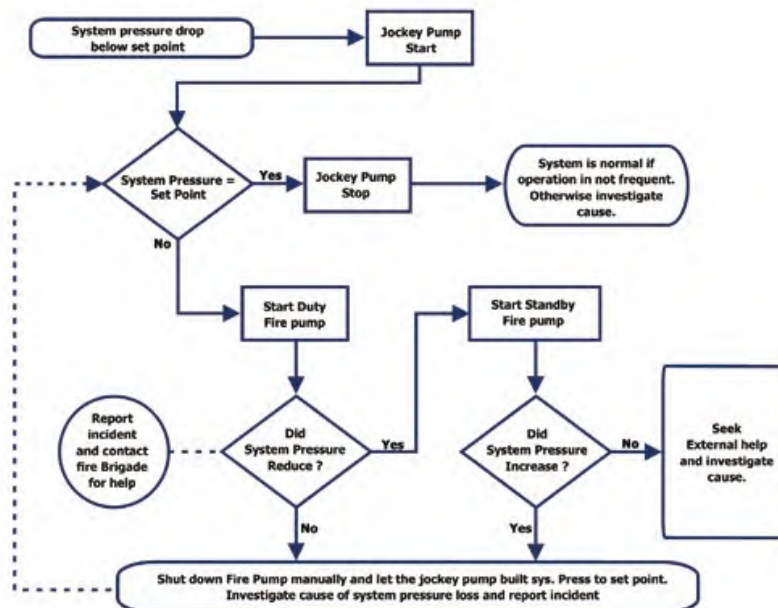
**EVMG5 12N52.2/HP**

**EVMG5 16N53.0/ HP.**

GRUNDFOS, SALMSON and other vertical multistage pumps can be used as jockey pumps in the package.



## Sequence of Fire Pumps Operations



## AQUA - CE Fire Pumps Skid



Standard (500 gpm @ 8 bar) Fire Pump package assembled as per EN Standards, CE mark Certificate, and Civil Defense Approval

### FEATURES:

- EBARA End suction pump with 50 hp. Electric motor.
- EBARA End suction pump with 48 hp. Diesel engine.
- EBARA Jockey pump.
- “EGY - EIPC” Electric Fire Pump Controller with pressure transducer.
- “EGY - DIPC” Diesel Fire Pump Controller with pressure transducer.
- “EGY - JLPC” Jockey controller with pressure transducer.
- All necessary OS & Y valves, non-return valves and sch 40 piping.
- All necessary stainless steel sensing lines from piping to transducers.



**Halotop**®



ISS CONTROLLERS



## ICON FIRE PUMP CONTROLLERS

### General Features for ICON Touch Screen System:

- Manufactured in accordance with the latest NFPA 20.
- 7" LCD Touch Screen with water-resistant front panel (IP65).
- Flame retardant ABS Housing.
- 64 bit quad-core processor.
- Software adjustable settings and parameters.
- 10 Years log memory.
- Timers: Sequential start timer, Run duration timer, Weekly test timer
- Accepts pressure transmitters or pressure switches.
- On-site trouble shooting
- Interlock between controllers to prevent multi pump run.
- USB ports for history backup, data can be downloaded to memory drive through USB port
- Historical data filters to be viewed on screen (alarms, events, actions) or status live update



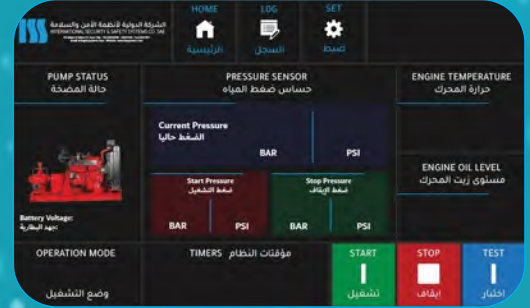
### Electric Fire Pump Controller "EGY-EIPC" Features:

- Designed for use with electric motor driven fire pumps.
- DOL or Wye-Delta Open starting method.
- Manufactured in accordance with the NFPA 20 and CE certified.
- Models range from 5 to 250 horsepower, 380V 50/60 Hz.
- Automatic start and a manual start/manual stop buttons.
- Emergency DOL start/stop buttons.
- Locked rotor, over/under voltage and over/under current protection.
- Protection Relay:
  - o Phase Reverse, Phase Loss.
  - o Over Voltage, Under Voltage.
- Readings:
  - o Voltage and amperage display and monitoring.
  - o Cut-in, cut-out and continuous system pressure.
  - o Run Counter.
- Visual indications for operating method:
  - o Standard conditions, Alarm conditions.
  - o Color coded for criticalness.
- Remote alarms:
  - o Power available, Phase reversal, Motor Run.
  - o Common pump room alarm.
  - o Common motor trouble.



## Diesel Fire Pump Controller “EGY-DIPC” Features:

- Designed to control Diesel Engine Driven Fire Pumps
- Built to the latest NFPA 20 Standards, CE Certified
- Manual and automatic operation
- Pressure, voltage, RPM and event recorder
- AC: 220V to 240V/1ph/50-60hz
- DC: 12 or 24VDC
- Battery chargers: One or Two independent fully automatic 10A continuous charge/cutoff
- Readings:
  - o AC voltage readings
  - o Battery (x2) voltage
  - o Pressure readings bar/psi
  - o Oil pressure, coolant temperature, oil temperature readings
  - o Cut-in cut-out and continuous system pressure display
- Alarm contacts for remote indication:
  - o Engine run
  - o Audible – Buzzer/Visual-onscreen alarms
  - o Common controller trouble
  - o Common engine trouble
  - o Common pump room alarm
  - o H-O-A in OFF or MANUAL
- Visual and audible alarms:
  - o Battery #1 & #2 Failure
  - o AC Failure
  - o Low oil pressure alarm
  - o High engine temperature alarm
  - o Over speed/Engine run/Fail to start



## Jockey Fire Pump Controller “EGY-JLPC” Features:

- Direct online (DOL) or Star/Delta open starter.
- Lamp Indications: Phase Reverse/Failure, Trip, ON/OFF state.
- Thermal overload protection.
- Operation mode selector: Manual mode, Off mode, Automatic mode.
- Pressure switch automatic mode control.
- AC: 380V/3Phase/50/60hz.

## LEGACY FIRE PUMP CONTROLLERS CE

### STANDALONE FIRE PUMP CONTROLLERS

#### Jockey Fire Pump Controller **EGY-JLPC** Features:

- CE Certified, built according to the latest requirements.
- Direct online (DOL) or Star/Delta open starter.
- Lamp Indications: Phase Reverse/Failure, Trip, ON/OFF state.
- Thermal overload protection.
- Operation mode selector: Manual mode, Off mode, Automatic mode.
- Pressure switch automatic mode control.
- AC: 380V/3Phase/50/60hz.

#### Electric Fire Pump Controller **EGY-ELPC** Features:

- CE Certified, built according to the latest requirements.
- Direct online (DOL) or Star/Delta open starter
- Timers: Run Timer and (Sequential Timer - Available on request)
- Lamp Indications: Phase Reverse/Failure, Trip, ON/OFF state
- Digital Multimeter Display for voltage and current measuring.
- Thermal overload protection
- Operation mode selector: Manual mode, Off mode, Automatic mode
- Manual Start and Stop push buttons.
- Pressure switch automatic mode control
- AC: 380V/3Phase/50/60hz

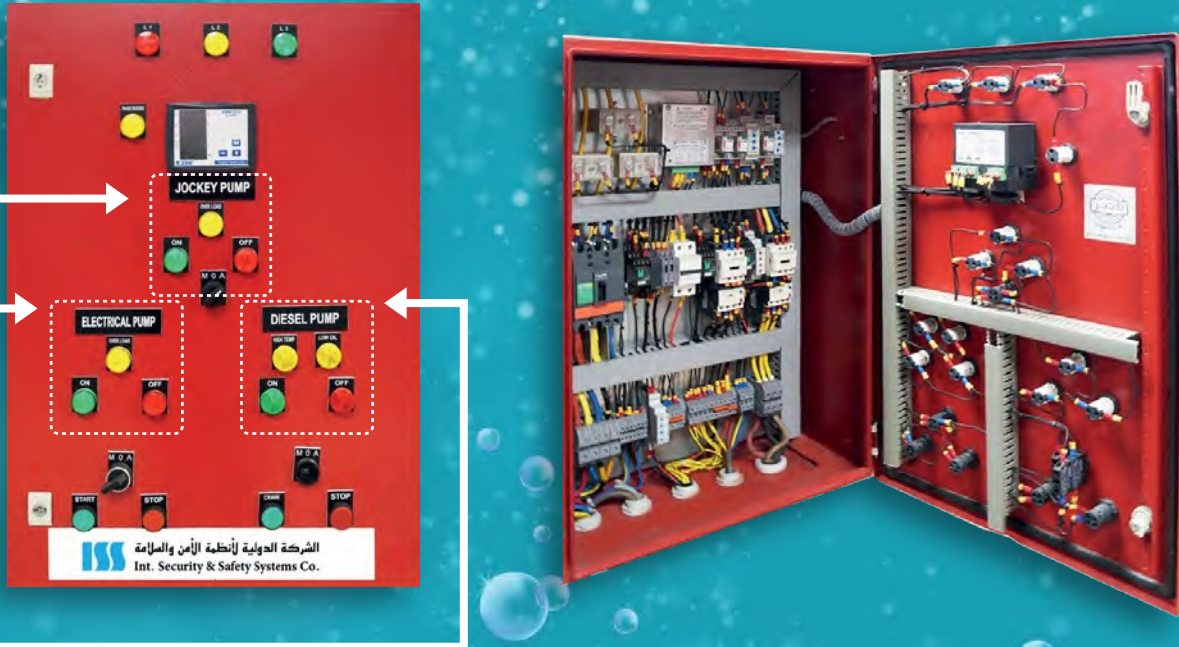
#### Diesel Fire Pump Controller **EGY-DLPC** Features:

- CE Certified, built according to the latest requirements.
- Battery Charger: 10A battery charger with automatic cut-off
- Timers: Run Timer and (Sequential Timer - Available on request).
- LED Indications: Low engine oil, High coolant temperature, Engine Run.
- Operation mode selector: Manual mode, Off mode, Automatic mode.
- Manual Start and Stop push buttons.
- Pressure switch automatic mode control.
- AC: 220V to 240V/1ph/50-60hz.
- DC: 12 or 24.



## TRIPLEX FIRE PUMP CONTROLLERS

- Electrical Components are ABB or SCHNEIDER.



### ***Triples Fire Pump Controller EGY-TLPC Features:***

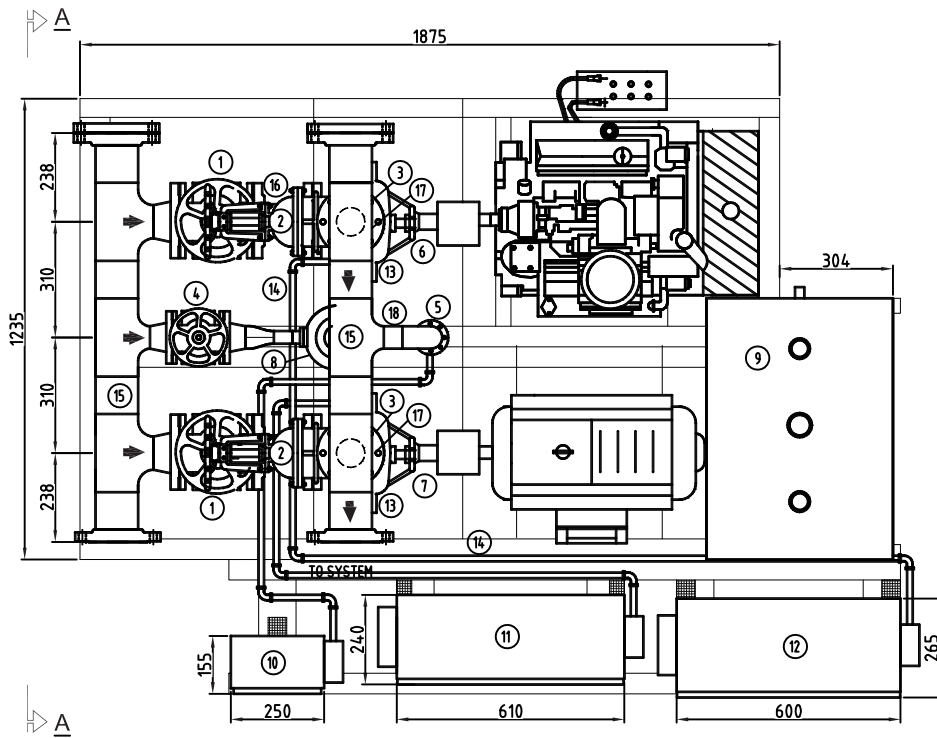
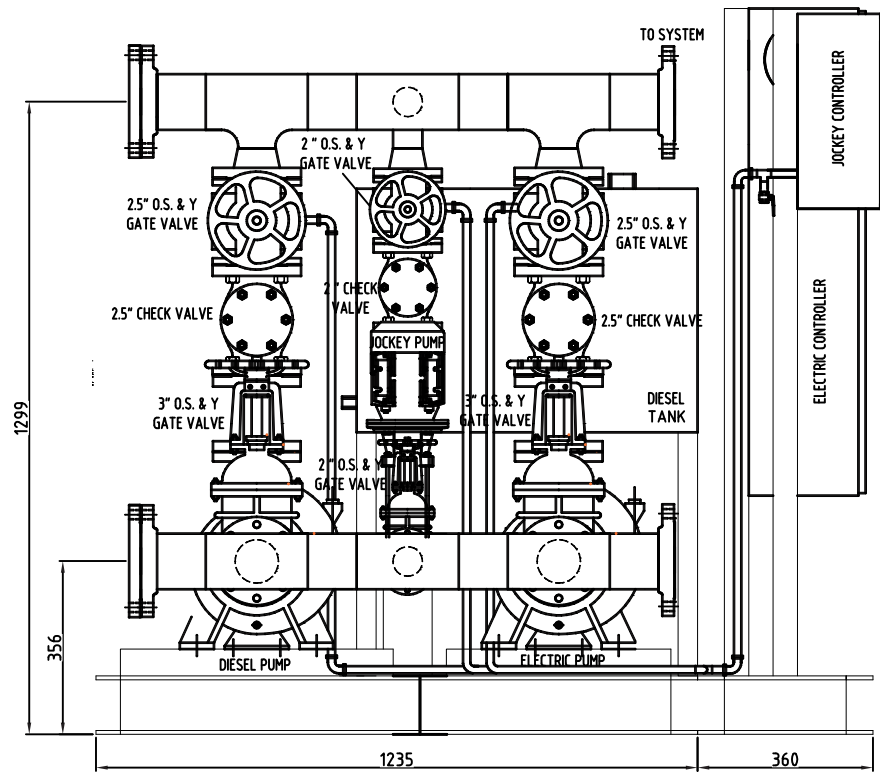
- All in-one classic controller combining all standalone classic controllers features.
- for Electric, Diesel and jockey fire pumps.
- CE Certified, built according to the latest requirements.
- Cabinet made of Mild steel with red-finish.
- key-lock with tamper protection.
- front panel led-indications with audible alarm.

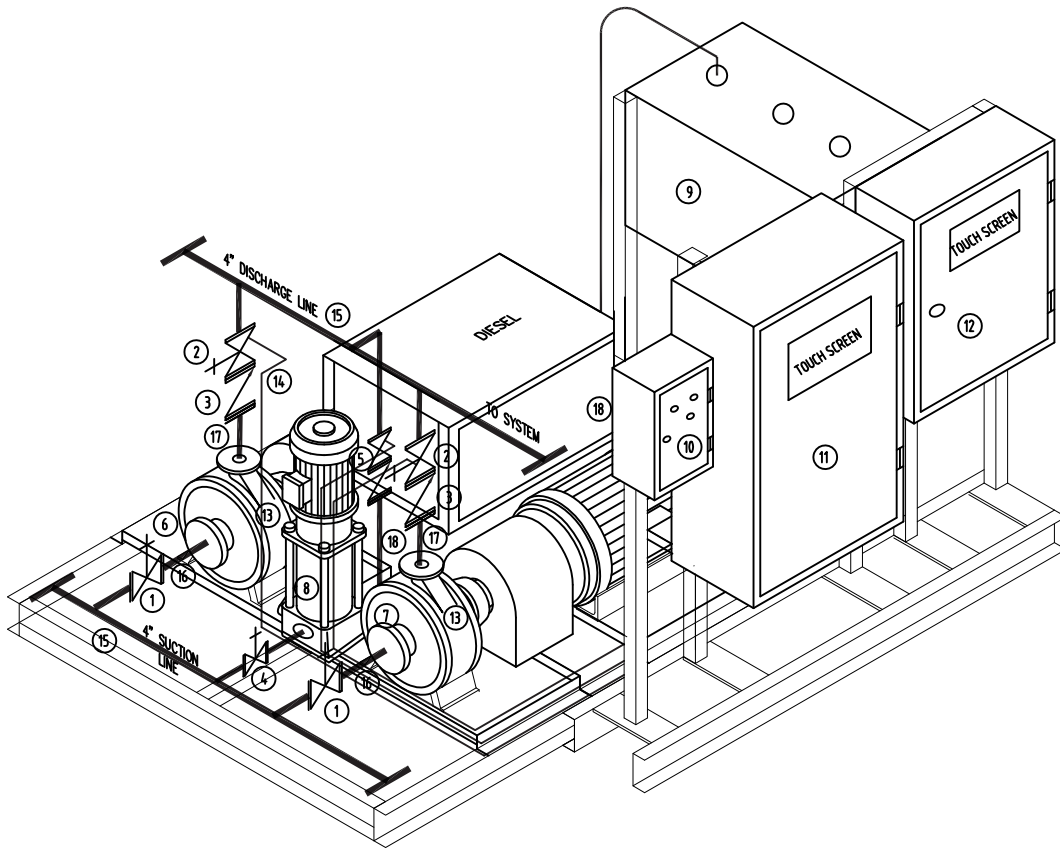
**NEW**

Under development



ISS is working on the development of “EGY-TIPC” which adds a 7” touch screen micro controller with a sophisticated software to manage your Triples pumps.





### LEGEND :

NUMBER	DESCRIPTION	QTY
①	3" O.S. & Y GATE VALVE	2
②	2.5" O.S. & Y GATE VALVE	2
③	2.5" CHECK VALVE	2
④	2" O.S. & Y GATE VALVE	1
⑤	2" CHECK VALVE & 2" O.S. & Y GATE VALVE	1
⑥	DIESEL PUMP	1
⑦	ELECTRIC PUMP	1
⑧	JOCKEY PUMP	1
⑨	DIESEL TANK	1
⑩	JOCKEY PUMP CONTROLLER	1
⑪	ELECTRIC FIRE PUMP CONTROLLER	1
⑫	DIESEL FIRE PUMP CONTROLLER	1
⑬	3/4" CASING RELIEF VALVE TO DRAIN	2
⑭	1/2" SENSING LINE	
⑮	4" PIPE	
⑯	3" PIPE	
⑰	2.5" PIPE	
⑱	2" PIPE	

NET WEIGHT : 1.7 TONS

MAX. HEIGHT : 148 CM

#### NOTES :

- 1- SENSING LINE INSTALLED IN THE GATE VALVE AT THE PUMP DISCHARGE FLANGE
- 2- TWO CHECK VALVES INSTALLED IN THE PRESSURE SENSING LINE AT LEAST 5 ft. (1.52m) APART WITH A NOMINAL (2.4mm) HOLE DRILLED IN THE CLAPPER TO SERVE AS DAMPENING & STAINLESS STEEL PIPE. TYPICAL FOR ALL SENSING LINE.
- 3- EXHAUST PIPE TO AIR ( CHECK WIND DIRECTION )
- 4- ARRANGEMENT CAN BE CHANGED AS PER SITE CONDITION

#### MANUFACTURER

 International Security & Safety Systems Co.

PROJECT TITLE : END SUCTION  
(200 USGPM - 7.0 BAR)

DWG TITLE : PUMP SKID LAYOUT

DESIGN BY:	A.B.	CHECKED	A.B.	APPR. BY:	M.G
DRAWN BY:	H.N	SCALE	-	01/01	REV.
DATE	2020	DWG NO.	FF-01		E

## Fire Pumps Reference List

• AGIBA PETROLEUM COMPANY - FARAS RAML ZARIF & MIDPOINT WEST DESERT.	1500 GPM & 50 GPM RUHRPUMPEN & UL/FM DRIVERS & CONTROLLERS.
• WHITE NILE SUGAR COMPANY - SUDAN.	2000 GPM - UL/FM.
• MINISTRY OF EDUCATION - LIBYA.	1000 GPM - EBARA PUMPS.
• MINISTRY OF HEALTH - LIBYA.	1000 GPM - EBARA PUMPS.
• MAYA FACTORY - LIBYA.	1000 GPM - EBARA PUMPS.
• EL - SWEEDY ELECTRIC CO. EGYPT.	750GPM @ 9 BAR. (9 EBARA FIRE PUMP SETS COMPLETE WITH VALVES AND ACCESSORIES)
• TCI SANMAR - PORT SAID.	1500GPM - UL/FM ARMSTRONG PUMPS 5000 GPM - RUHRPUMPEN & UL/FM DRIVRES & CONTROLLERS.
• MISR GLASS FACTORY - MUSTOROD.	1250 GPM - ARMSTRONG UL/FM PUMPS.
• SAVOLA OIL FACTORY.	1500 GPM - UL/FM ARMSTRONG PUMPS.
• INDOMI CO. - BADR CITY.	500 GPM - EBARA PUMPS.
• OSMAN IBN AFAN SCHOOL - EL REHAB CITY.	500 GPM - EBARA PUMPS.
• COOK DOOR - AL OBOUR CITY.	750 GPM - EBARA PUMPS.
• FARM FRITES - 10TH OF RAMADAN CITY.	500 GPM - EBARA PUMPS.
• PORT SAID FOR MECHANICAL CONSTRUCTIONS.	750 GPM - EBARA PUMPS.
• EL AZHAR MALL - DOWN TOWN.	750 GPM - EBARA PUMPS.
• FRANCE SCHOOL.	NEW CAIRO
• AIR FRANCE.	CAIRO AIR PORT
• ISLAM ON LINE.	6TH OF OCTOBER CITY
• MODERN COMPANY.	BADR CITY
• CLASS PERFUME FACTORY.	OBOUR CITY
• 7K COMPANY.	GESR EL SUEZ
• AMIRA RESORT.	RAS SEDR
• ROTOBAK COMPANY.	10TH OF RAMADAN CITY
• ALEXANDRIA FIBER GLASS.	ALEXANDRIA
• ISMALEYA HOSPITAL.	ISMALEYA

## Fire Pumps Projects



**TCI - SANMAR - PORTSAID**



**AGIBA SITES FIRE PUMPS**



**ZAMBIA - CE - PACKAGE**



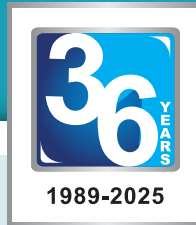
**EL - SEWEDY ELECTRIC  
(ELECTRIC POWER STATION)**



**ARABIAN OILS, GRAINS AND CHEMICALS  
COMPLEX AFOFCO. ( ADABEYA SEAPORT )**



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E-mail : [info@isssystem.com](mailto:info@isssystem.com)