

# PRE - QUALIFICATION



**ARIF  
AL-NAHDI  
CO.LTD.**

Fire Pumps &  
Safety Projects

Quality - Safety - Service



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High Reliability.. and Excellent Services

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الاستقبال  
RECEPTION



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# Introduction



# Introduction

We are a leading national Company in Saudi market Specialized in Supply and Manufacture of Safety Fire Protection Systems, in addition to Installation, Testing & Commissioning.

We have started manufacturing in 2013 by establishing a factory for production of Fire Pumps in Riyadh, and within three years we got Our Trademark (ANC), in 2020 we obtained the Quality Mark from the official authorities in KSA, then we obtained international accreditations from various accreditation bodies such as (UL/FM) laboratories and the International Standard Organization (ISO), ANC seeks to spread regionally and globally according to investment plans policy.

## Our Vision

To be edifice industrial & service in the field of Fire-Fighting Pumps and Safety Projects Systems with high Quality and Reliability.



# Our Mission

Providing Fire Pumps, Fire-Fighting and Safety Equipment with high Quality, Reliability and Implementation of Safety Systems Projects in accordance to Local and international Standards.

# Our Goals

- » Responsible and effective participation in the manufacture and production of Fire pumps with high quality and reliability, providing comprehensive and distinguished services.
- » Selling and installing Products and implementing safety systems projects with high levels of accuracy, quality and proficiency, using the best technologies, devices and tools.
- » Providing distinguishing after-sales services, for products as same as Safety projects.
- » Administrative, Technical and Support staff be among the trained and sincere efficiencies, and all employees have a high level of skill and morals.
- » Active participation in Social Responsibility.



# Our Values

- » Commitment to Honesty, Morals, Quality, and Perfection in all our dealings, Products & Services.
- » Full respect for the privacy and rights of our clients.
- » Taking care of customer's Opinions/complaints and giving them full attention.
- » We always feel that we're trustees of the safety/quality of our products and services.
- » Respecting workers & rewarding the distinguished, guiding and reforming the negligent.
- » Justice and fairness with employees, customers, and suppliers.
- » Using the high levels and specifications of tools and devices with quality / safety in all our Products and Activities.







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# Scope of Work



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## **Manufacturing & Testing**

We manufacture and test fire pumps with the highest local & international standards by using the latest equipment and tools.



## **Implementation of Safety Projects**

A Sector Specialized in Implementing alarm and firefighting systems projects.



## **Operation & Maintenance**

A Qualified staff of engineers and technicians operates & maintains pumps.



## **Supply, Installation ,Testing & Commissioning**

We are committed to supplying products to clients over the KSA and other Countries .



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# Our Sectors



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## Manufacturing Sector



## Sales Sector



## Projects Sector



## Manufacturing Sector

Contains a qualified and trained staff on the latest devices & modern technologies in the field of Fire Pumps manufacturing, ANC Factory has a high ability to produce a large number of Pumps in rapid time, also it's equipped with the latest testing Systems approved by the largest international accreditation Authority.



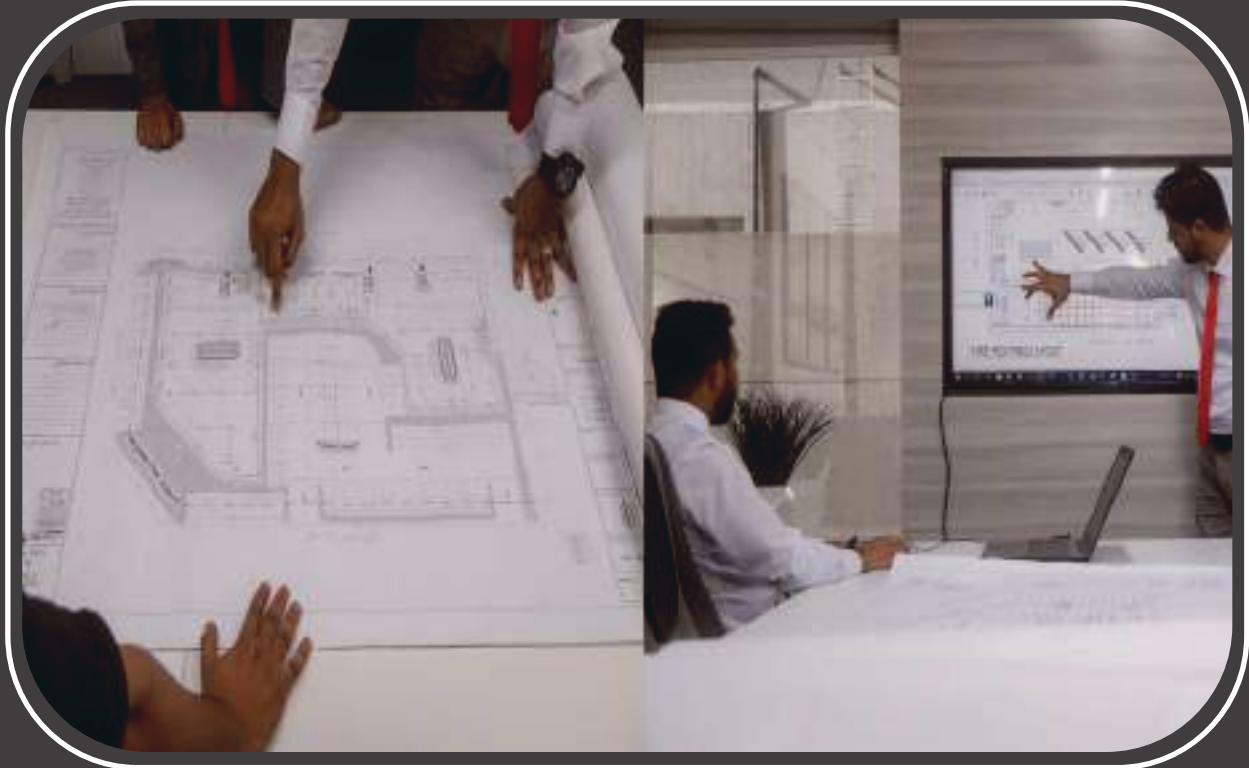




## Sales Sector

one of the most important and largest sectors of ANC, and it is the supporting for other sectors, ANC has opened sales showrooms in most major cities in KSA with logistical support services and facilities.





## Projects Sector

Contained crew of engineering and technical cadres with a high level of experience and efficiency, Sector is implementation and maintenance of safety systems projects and also targets development projects that is in line with the goals and vision of KSA 2030.







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الخدمات عالية الجودة والمنتجات المتطورة

# Warehousing & logistics Services



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# Organization Chart



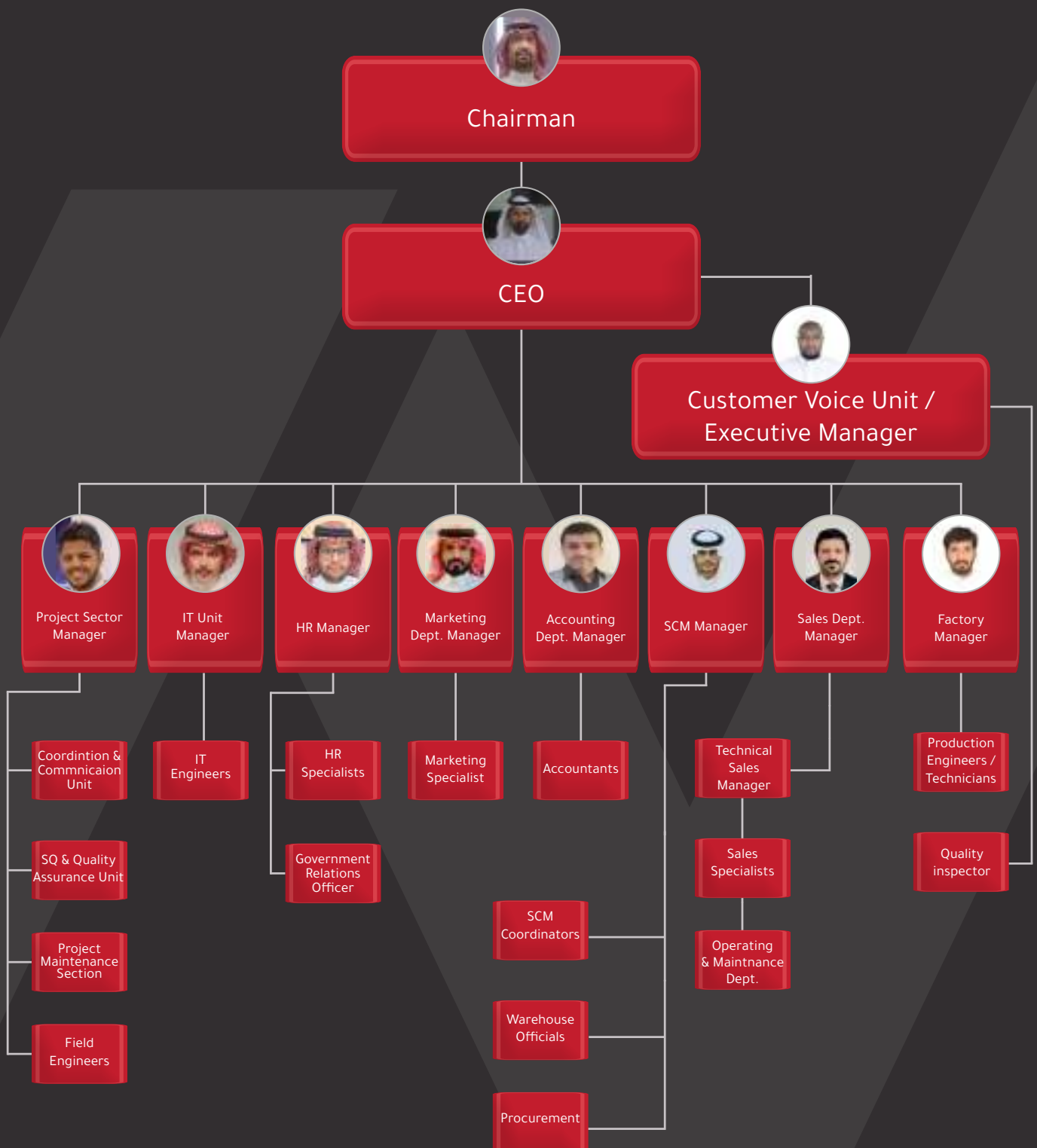
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# Our Services



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## **Design & Consulting**

Design and approving engineering safety drawings



## **Manufacturing & Testing**

We manufacture and test fire pumps with the highest international and local standards by using the latest equipment and tools



## **Supply & Delivery**

We are committed to Supplying products to customer over the kingdom of Saudi Arabia



## **Operating & Maintenance**

A Qualified staff of engineers and technicians operates and maintains pumps







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# Production



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● **Manufacturing**



● **Assembling**



**Painting**



● **Pump Controller**



● **Testing**



# Manufacturing

- ▶ Encompassing a range of activities ... these include welding of suction pipes, welding of discharge pipes, supplying suction pipes, plumping which involves the threading, preparing and fitting of pipes, lathe set which involves turning couplings and pipes to fit with flanges, welding of iron bases, and finally welding of flanges, all is done with the latest technology and modern equipment.



# Assembling

- ▶ All main parts of pump are assembling and connecting them to pipes, accessories, and all that is some cutting operations are performed using plasma technology, as well as the automatic threading operations for some connections and pipes.





# Painting

- ▶ This unit comprises distinct paint groups, where there is a special group for painting assembled pumps, as well as a group for painting the suction pipes, in addition to group for painting the iron bases. By dividing the painting process into these groups, the unit can ensure that each component is painted efficiently and to the highest quality standards.







# Pump Controller

- ▶ In this unit, the control panel is assembled the electrical connections and switches with multiple voltages and frequency, Electrical protection parts and pump control devices are installed in panels based on engineering drawings.



# Testing

## ▲ Testing System

- ▲ All electrical accessories such as sensor switches, pressure Gauge, and pressure indicators are installed, in addition to connecting the control panel to pump and connecting the electrical cables necessary for testing.

## ▶ Testing JIG

- ▶ At this stage, Q/A & Q/C team make sure about pumps assembling quality and if it's applied with the approved specifications and standards as per engineering layout, all pumps are tested by a Special System consisting of several highly sensitive sensors and other equipment and devices such as Flowmeter, RPM, Pressure Sensor. And it is connected to a frequency converter device, then the system prints the test report and performance curve and matches it with the specifications required for each pump.

### ▶ Note :

- Testing and inspection are carried out by a special designed network to test the strength of pumps pressure according to the international code (NFPA20).
- Observe the rules and regulations of safety, quality and environmental protection in all stages of manufacturing and testing







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# Our Products



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## UL listed Fire Pump

# Introduction

The fire pump sets are being mounted and aligned with electric motor, and/or diesel engine on a common base plate. The fire pump package includes all pump fittings such as manometers, casing relief valve, and automatic air release valve (for split-case models) to be supplied with approved electric and/or diesel fire pump controller.

**ANC UL** approved fire pumps are ideally developed and produced either for small flows or high flows through well-designed compact packages. ANC UL Fire pumps have back pull out design for easy maintenance, self-venting center line discharge, and low NPSH requirements. The pump construction is ductile iron body, bronze fitted with packing. The shaft and sleeves are in AISI316 Stainless steel and be supported by thrust ball bearings, and radial roller bearing.

## Electrical Pumps



## Technical Data

| FLOW / GPM | BAR   | TYPE PUMP   | MODEL PUMP  | POWER / HP | SIZE / In. | SPEED |
|------------|-------|-------------|-------------|------------|------------|-------|
| 500        | 8     | END SUCTION | ANCEF 65/20 | 75         | 3" - 2.5"  | 3550  |
| 750        | 8-9.7 | END SUCTION | ANCEF 80/20 | 100        | 4" - 3"    | 3550  |
| 750        | 10    | SPLIT CASE  | ANCSF5-3x10 | 100        | 5" - 3"    | 3550  |
| 1000       | 10    | SPLIT CASE  | ANCSF6-5x10 | 125        | 6" - 5"    | 3550  |
| 1250       | 10    | SPLIT CASE  | ANCSF8-6x10 | 175        | 8" - 6"    | 3550  |



## Diesel Pumps



## Technical Data

| FLOW / GPM | BAR   | TYPE PUMP   | MODEL PUMP  | POWER / KW | SIZE / In. | SPEED |
|------------|-------|-------------|-------------|------------|------------|-------|
| 500        | 8     | END SUCTION | ANCEF 65/26 | 62         | 3" - 2.5"  | 2980  |
| 750        | 8-9.7 | END SUCTION | ANCEF 80/26 | 62         | 4" - 3"    | 2980  |
| 750        | 10    | SPLIT CASE  | ANCSF5-4x13 | 86         | 5" - 3"    | 2980  |
| 1000       | 10    | SPLIT CASE  | ANCSF6-5x10 | 86         | 6" - 5"    | 2980  |
| 1250       | 10    | SPLIT CASE  | ANCSF8-6x10 | 131        | 8" - 6"    | 2980  |



## UL Listed Split Case & End Suction Pumps

## Split-Case Pumps

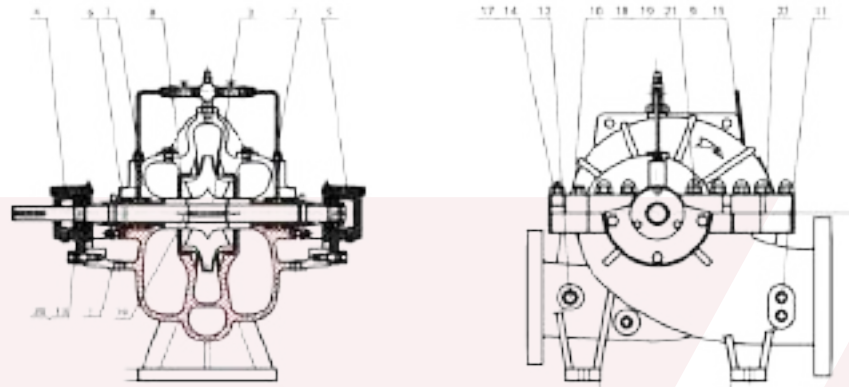


## Introduction

**ANC UL LISTED** series-Double Suction, split-casing pumps are in line designed, space saving, easy maintenance horizontal type. Our split case pumps are heavy-duty designed with replaceable wear rings and sleeves. Bearings are mounted and can be replaced without opening pump case. Each stuffing box is fitted with bronze gland and with a stuffing box extension to facilitate the packaging rings removal. The pump construction is ductile iron body, bronze fitted with packaging. The shaft and sleeves are in AISI316 stainless steel and be supported by heavy-duty ball bearings and roller bearing.

## Material Details

### Split - Case Pumps



| Model | ANCSF 5-3x10         |                          | ANCSF 5-4x13          |                          | ANCSF 6-5x10          |                          |
|-------|----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|
| NO.   | Part No.             | Part Name                | Part No.              | Part Name                | Part No.              | Part Name                |
| 1     | ANCSF125-80-250-0001 | Lower Casing             | ANCSF125-100-300-0001 | Lower Casing             | ANCSF150-125-250-0001 | Lower Casing             |
| 2     | ANCSF125-80-250-0002 | Upper Casing             | ANCSF125-100-300-0002 | Upper Casing             | ANCSF150-125-250-0002 | Upper Casing             |
| 3     | ANCSF125-80-250-0100 | Rotor Assembly           | ANCSF125-100-300-0100 | Rotor Assembly           | ANCSF150-125-250-0100 | Rotor Assembly           |
| 4     | ANCSF-207.00-ZZ-6307 | Bearing – DE             | ANCSF-207.00-ZZ-6307  | Bearing – DE             | ANCSF-207.00-ZZ-6307A | Bearing – DE             |
| 5     | ANCSF-307.00-ZZ-6307 | Bearing – NDS            | ANCSF-307.00-ZZ-6307  | Bearing – NDS            | ANCSF-307.00-ZZ-6307A | Bearing – NDS            |
| 6     | ANCSF-401.00-50B     | Packing Seal Assembly    | ANCSF-401.00-50B      | Packing Seal Assembly    | ANCSF-401.00-50B      | Packing Seal Assembly    |
| 7     | ANCSF-700.00-AF      | Flushing Pipe            | ANCSF-700.00-AF       | Flushing Pipe            | ANCSF-700.00-AF       | Flushing Pipe            |
| 8     | B2106-72A-131x146x18 | Casing Wear Ring         | B2106-72A-131x146x25  | Casing Wear Ring         | B2106-72A-160x175x22  | Casing Wear Ring         |
| 9     | TB125-125            | Supporting Plate         | TB125-125             | Supporting Plate         | TB125-125             | Supporting Plate         |
| 10    | DS-00 - M12x60       | Jackscrew                | DS-00 - M12x60        | Jackscrew                | DS-00 - M12x60        | Jackscrew                |
| 11    | GB/T3287 T8-1/2-Zn-D | Plug NPT1/2 “            | GB/T3287 T8-1/2-Zn-D  | Plug NPT1/2 “            | GB/T3287 T8-1/2-Zn-D  | Plug NPT1/2 “            |
| 12    | GB/T3287 T8-3/4-Zn-D | Plug NPT3/4 “            | GB/T3287 T8-3/4-Zn-D  | Plug NPT3/4 “            | GB/T3287 T8-3/4-Zn-D  | Plug NPT3/4 “            |
| 13    | GB/T5783 - M16x55    | Hex Head Bolt            | GB/T5783 - M16x55     | Hex Head Bolt            | GB/T5783 - M16x55     | Hex Head Bolt            |
| 14    | GB/T6170 - M12       | Hexagon Nut              | GB/T6170 - M12        | Hexagon Nut              | GB/T6170 - M12        | Hexagon Nut              |
| 15    | GB/T70.3 - M8x20     | Screws                   | GB/T70.3 - M8x20      | Screws                   | GB/T70.3 - M8x20      | Screws                   |
| 16    | GB/T879.1 - 8x16     | Electric Cylindrical Pin | GB/T879.1 - 8x20      | Electric Cylindrical Pin | GB/T879.1 - 8x20      | Electric Cylindrical Pin |
| 17    | GB/T881 - 12x100     | Screw Tail Taper Pin     | GB/T881 - 12x100      | Screw Tail Taper Pin     | GB/T881 - 12x100      | Screw Tail Taper Pin     |
| 18    | GB/T898 - AM20x65    | Studs                    | GB/T898 - AM20x65     | Studs                    | GB/T898 - AM20x65     | Studs                    |
| 19    | GB/T923 - AM20       | Cover Nut                | GB/T923 - AM20        | Cover Nut                | GB/T923 - M20         | Cover Nut                |
| 20    | GB/T93 - 16          | Spring Washers           | GB/T93 - 16           | Spring Washers           | GB/T93 - 16           | Spring Washers           |
| 21    | GB/T97.1 - 20        | Flat Washers             | GB/T97.1 - 20         | Flat Washers             | GB/T97.1 - 20         | Flat Washers             |
| 22    | 0.3 mm               | Split - Cases Gasket     | -                     | Split - Cases Gasket     | -                     | Split - Cases Gasket     |



## End - Suction Pumps

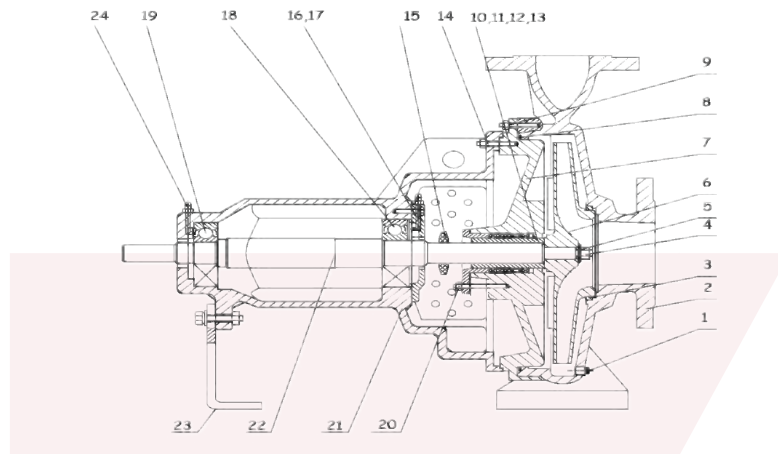


## Introduction

**ANC UL LISTED** series-Double Suction, split-casing pumps are in line designed, space saving, easy maintenance horizontal type. Our split-case pumps are heavy-duty designed with replaceable wear rings and sleeves. Bearings are mounted and can be replaced without opening pump case. Each stuffing box is fitted with bronze gland and with a stuffing box extension to facilitate the packaging rings removal. The pump construction is ductile iron body, bronze fitted with packaging. The shaft and sleeves are in AISI316 stainless steel and be supported by heavy-duty ball bearings and roller bearing.

## Material Details

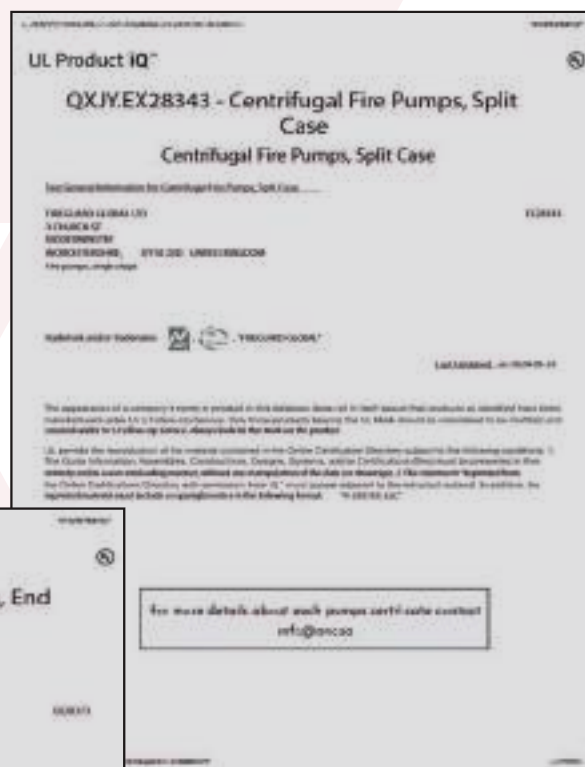
### End - Suction Pumps



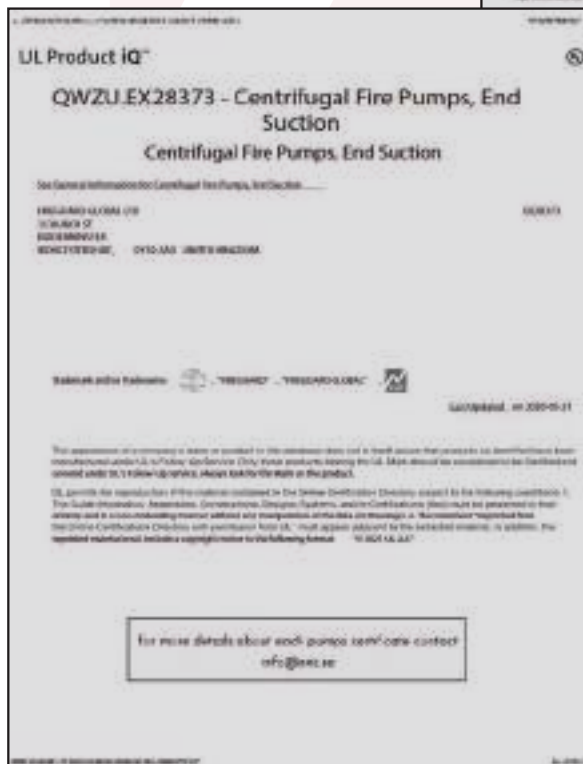
| Model | ANCEF 40/26                        | ANCEF 50/26                        | ANCEF 65/26                        | ANCEF 80/26                        |
|-------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| DN    | 2 - 1/2 * 1 - 1/2                  | 2 - 1/2 * 2                        | 3 * 2 - 1/2                        | 4 * 3                              |
| 1     | Vent plug - GB/T3287 - G1/2        | Vent plug - GB/T3287 - G1/2        | Vent plug - GB/T3287 - G1/2        | Vent plug - GB/T3287 - G1/2        |
| 2     | Casing - EF 40/26-0001             | Casing - EF 50/26-0001             | Casing - EF 65/26-0001             | Casing - EF 80/26-0001             |
| 3     | Casing wear ring - EF 40/26-0007   | Casing wear ring - EF 50/26-0007   | Casing wear ring - EF 65/26-0007   | Casing wear ring - EF 80/26-0007   |
| 4     | Impeller Nut - EF 40/26-0005 - M16 | Impeller Nut - EF 50/26-0005       | Impeller Nut - EF 65/26-0005 - M24 | Impeller Nut - EF 80/26-0005 - M24 |
| 5     | Washer - GB/T93                    | Washer - GB/T93                    | Washer - GB/T93                    | Washer - GB/T93                    |
| 6     | Impeller EF 40/26-0006             | Impeller EF 50/26-0006             | Impeller EF 65/26-0006             | Impeller EF 80/26-0006             |
| 7     | Casing cover - EF 40/26-0002       | Casing cover - EF 50/26-0002       | Casing cover - EF 65/26-0002       | Casing cover - EF 80/26-0002       |
| 8     | O-ring - GB/T3452.1-2005           | O-ring - GB/T3452.1-2005           | O-ring - GB/T3452.1-2005           | O-ring - GB/T3452.1-2005           |
| 9     | Double end studs EF 40/26-0013     | Double end studs EF 50/26-0013     | Double end studs EF 65/26-0013     | Double end studs EF 80/26-0013     |
| 10    | Packing sleeve GB/T5780            | Packing sleeve GB/T5780            | Packing sleeve GB/T5780            | Packing sleeve GB/T5780            |
| 11    | Packing gland - EF 40/26-0008      | Packing gland - EF 50/26-0008      | Packing gland - EF 65/26-0008      | Packing gland - EF 80/26-0008      |
| 12    | Packing-GB/T16605-2008 - 7x7x150   | Packing-GB/T16605-2008 - 6x6x200   | Packing-GB/T16605-2008 - 7x7x250   | Packing-GB/T16605-2008 - 7x7x250   |
| 13    | Packing ring - EF 40/26-0009       | Packing ring - EF 50/26-0009       | Packing ring - EF 65/26-0009       | Packing ring - EF 80/26-0009       |
| 14    | Double end studs M10x55            | Double end studs M10x35            | Double end studs - GP/T70.3 M12x35 | Double end studs - GP/T70.3 M12x35 |
| 15    | Water-proof ring DS-00             | Water-proof ring DS-00             | Water-proof ring DS-00             | Water-proof ring DS-00             |
| 16    | Bearing cover EF 40/26-0012        | Bearing cover EF 50/26-0012        | Bearing cover EF 65/26-0012        | Bearing cover EF 80/26-0012        |
| 17    | Oil Seal DS-00                     | Oil Seal DS-00                     | Oil Seal DS-00                     | Oil Seal DS-00                     |
| 18    | Bearing GB/T276-1994 SKF7307       | Bearing GB/T276-1994 SKF7307       | Bearing GB/T276-1994 SKF7308       | Bearing GB/T276-1994 SKF7309       |
| 19    | Bearing GB/T276-1994 SKF7306       | Bearing GB/T276-1994 SKF7306       | Bearing GB/T276-1994 SKF7307       | Bearing GB/T276-1994 SKF7308       |
| 20    | Double end studs-GB/T70.3- M10x60  | Double end studs-GB/T70.3- M10x60  | Double end studs-GB/T70.3- M10x75  | Double end studs-GB/T70.3- M10x75  |
| 21    | Bearing Housing EF 40/26-0010      | Bearing Housing EF 50/26-0010      | Bearing Housing EF 65/26-0010      | Bearing Housing EF 80/26-0010      |
| 22    | Shaft EF 40/26-0003                | Shaft EF 50/26-0003                | Shaft EF 65/26-0003                | Shaft EF 80/26-0003                |
| 23    | Bearing Bracket EF 40/26-0011      | Bearing Bracket EF 50/26-0011      | Bearing Bracket EF 65/26-0011      | Bearing Bracket EF 80/26-0011      |
| 24    | Grease nozzle-GB/T7940.1-1995-M6x1 | Grease nozzle-GB/T7940.1-1995-M6x1 | Grease nozzle-GB/T7940.1-1995-M6x1 | Grease nozzle-GB/T7940.1-1995-M6x1 |

## Certification UL

### Split Case



### End Suction





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## Jockey Pump



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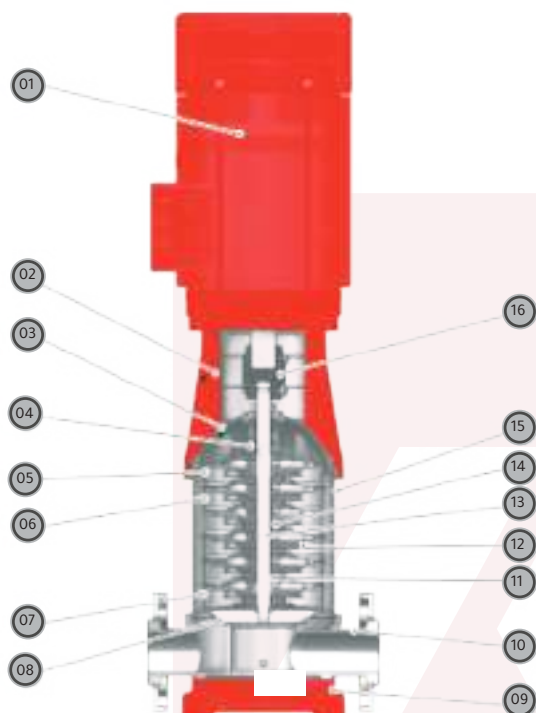


## Description

- SS304 vertical, multistage centrifugal pump
- The suction and discharge ports on the same level pump head and base are in cast iron
- Pump impeller and shaft are in stainless steel
- All wetted parts are in stainless steel
- IE3 high efficient motor, with protection IP55 class F
- Quality bearing, wear resistance mechanical seal
- Liquid temperature between -10 C and + 120 C

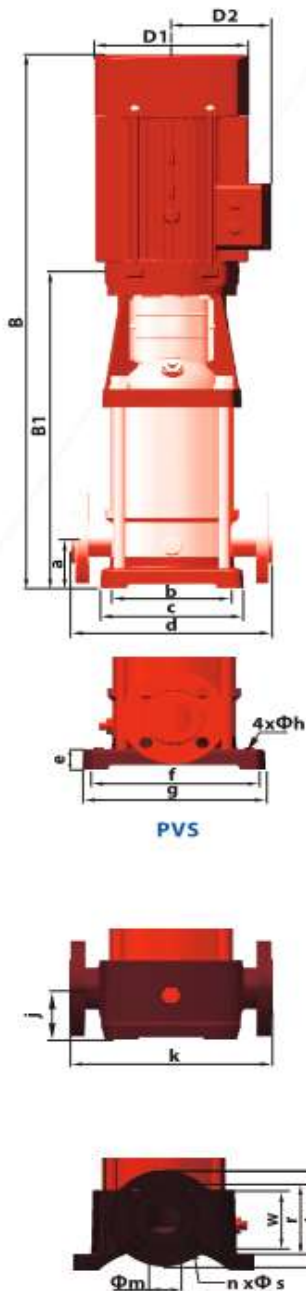
## Material Details

### Jockey Pumps



| No. | Description      | Material     | No. | Description          | Material         |
|-----|------------------|--------------|-----|----------------------|------------------|
| 1   | Motor            | IPSS Class F | 9   | Base Plate           | Cast iron        |
| 2   | Pump Case        | Cast iron    | 10  | Inlet/Outlet Chamber | SS304            |
| 3   | Seal Base        | SS304        | 11  | Bearing              | Tungsten Carbide |
| 4   | Mechanical Seal  | SS304        | 12  | Impeller             | SS304            |
| 5   | Top Diffuser     | SS304        | 13  | Shaft                | SS304            |
| 6   | Diffuser         | SS304        | 14  | Impeller Sleeve      | SS304            |
| 7   | Support Diffuser | SS304        | 15  | Cylinder             | SS304            |
| 8   | Inducer          | SS304        | 16  | Coupling             | Carbon Steel     |

## DIMENSIONS AND WEIGHT



| MODEL | B1  | B    | D1  | D2  | COMMON | kg  | MODEL    | B1   | B    | D1  | D2  | COMMON | kg  |
|-------|-----|------|-----|-----|--------|-----|----------|------|------|-----|-----|--------|-----|
| 4-2   | 286 | 531  | 170 | 142 | DN=32  | 24  | 16-2-1   | 397  | 687  | 190 | 155 | DN=50  | 42  |
| 4-3   | 313 | 558  | 170 | 142 | a=50   | 25  | 16-2     | 407  | 762  | 230 | 188 | a=90   | 56  |
| 4-4   | 350 | 640  | 190 | 155 | b=100  | 31  | 16-3     | 472  | 862  | 260 | 208 | b=130  | 68  |
| 4-5   | 376 | 667  | 190 | 155 | c=150  | 34  | 16-4     | 517  | 907  | 260 | 208 | c=199  | 75  |
| 4-6   | 404 | 694  | 190 | 155 | d=210  | 35  | 16-5     | 650  | 1150 | 330 | 255 | d=260  | 148 |
| 4-7   | 441 | 786  | 197 | 165 | e=20   | 42  | 16-6     | 695  | 1195 | 330 | 255 | e=35   | 150 |
| 4-8   | 468 | 813  | 197 | 165 | f=180  | 42  | 16-7     | 740  | 1240 | 330 | 255 | f=215  | 162 |
| 4-10  | 522 | 877  | 230 | 188 | g=210  | 51  | 16-8     | 785  | 1285 | 330 | 255 | g=247  | 163 |
| 4-12  | 576 | 931  | 230 | 188 | h=13   | 52  | 16-10    | 875  | 1425 | 330 | 255 | h=14   | 163 |
| 4-14  | 650 | 1040 | 260 | 208 | j=75   | 64  | 20-1     | 397  | 687  | 190 | 155 | j=90   | 163 |
| 4-16  | 704 | 1094 | 260 | 208 | k=250  | 66  | 20-2     | 407  | 762  | 230 | 188 | k=300  | 186 |
| 8-2-1 | 347 | 592  | 170 | 142 | m=32   | 32  | 20-3     | 472  | 862  | 260 | 208 | m=50   | 188 |
| 8-2   | 357 | 647  | 190 | 155 | n=4    | 38  | 20-4     | 517  | 907  | 260 | 208 | n=8    | 41  |
| 8-3   | 387 | 677  | 190 | 155 | r=100  | 41  | 20-5     | 650  | 1150 | 330 | 255 | r=125  | 56  |
| 8-4   | 427 | 772  | 197 | 165 | s=18   | 49  | 20-6     | 695  | 1195 | 330 | 255 | s=18   | 56  |
| 8-5   | 457 | 802  | 197 | 165 | t=140  | 50  | 20-7     | 740  | 1240 | 330 | 255 | t=165  | 69  |
| 8-6   | 487 | 842  | 230 | 188 | w=60   | 58  | 20-8     | 785  | 1285 | 330 | 255 | w=80   | 79  |
| 8-8   | 567 | 957  | 260 | 208 |        | 71  | 20-9     | 875  | 1425 | 330 | 255 |        | 148 |
| 8-10  | 627 | 1017 | 260 | 208 | DN=40  | 80  | 20-10    | 875  | 1425 | 330 | 255 |        | 150 |
| 8-12  | 687 | 1077 | 260 | 208 | a=80   | 82  | 32-10-1  | 595  | 850  | 197 | 165 |        | 73  |
| 8-14  | 835 | 1335 | 330 | 255 | b=130  | 153 | 32-10    | 595  | 860  | 230 | 188 |        | 81  |
| 10-1  | 347 | 592  | 170 | 142 | c=199  | 40  | 32-20-2  | 575  | 965  | 260 | 208 |        | 95  |
| 10-2  | 347 | 637  | 190 | 155 | d=260  | 47  | 32-20    | 575  | 965  | 260 | 208 |        | 101 |
| 10-3  | 377 | 667  | 190 | 155 | e=25   | 51  | 32-30-2  | 645  | 1035 | 330 | 255 |        | 104 |
| 10-4  | 417 | 762  | 197 | 165 | f=215  | 60  | 32-30    | 750  | 1250 | 330 | 255 | DN=65  | 172 |
| 10-5  | 447 | 792  | 197 | 165 | g=247  | 61  | 32-40-2  | 820  | 1320 | 330 | 255 | a=105  | 176 |
| 10-6  | 477 | 832  | 230 | 188 | h=14   | 70  | 32-40    | 820  | 1320 | 330 | 255 | b=170  | 176 |
| 10-7  | 517 | 907  | 260 | 208 | j=80   | 92  | 32-50-2  | 890  | 1390 | 330 | 255 | c=225  | 186 |
| 10-8  | 547 | 937  | 260 | 208 | k=280  | 93  | 32-50    | 890  | 1440 | 330 | 255 | d=320  | 186 |
| 10-9  | 577 | 967  | 260 | 208 | m=50   | 94  | 32-70-2  | 1030 | 1605 | 360 | 285 | e=30   | 191 |
| 10-10 | 607 | 997  | 260 | 208 | n=4    | 98  | 32-70    | 1030 | 1605 | 360 | 285 | f=240  | 191 |
| 10-12 | 667 | 1057 | 260 | 208 | r=110  | 100 | 32-80-2  | 1100 | 1675 | 400 | 310 | g=298  | 211 |
| 10-14 | 747 | 1247 | 330 | 255 | s=18   | 157 | 32-80    | 1100 | 1750 | 400 | 310 | h=14   | 211 |
| 10-16 | 807 | 1307 | 330 | 255 | t=150  | 159 | 32-90-2  | 1170 | 1820 | 400 | 310 | j=305  | 216 |
| 10-17 | 837 | 1337 | 330 | 255 | w=80   | 160 | 32-90    | 1170 | 1820 | 400 | 310 | k=320  | 216 |
| 12-1  | 357 | 602  | 170 | 142 | DN=50  | 32  | 32-100-2 | 1240 | 1890 | 400 | 310 | m=74   | 216 |
| 12-2  | 367 | 657  | 190 | 155 | a=90   | 41  |          |      |      |     |     | n=8    | 255 |
| 12-3  | 407 | 762  | 230 | 188 | b=130  | 56  |          |      |      |     |     | r=145  | 255 |
| 12-4  | 457 | 847  | 260 | 208 | c=199  | 69  |          |      |      |     |     | s=18   | 255 |
| 12-5  | 487 | 877  | 260 | 208 | d=260  | 71  |          |      |      |     |     | t=185  | 259 |
| 12-6  | 517 | 907  | 260 | 208 | e=35   | 77  |          |      |      |     |     | w=107  | 259 |
| 12-7  | 547 | 937  | 260 | 208 | f=215  | 78  |          |      |      |     |     |        |     |
| 12-8  | 665 | 1165 | 330 | 255 | g=247  | 147 |          |      |      |     |     |        |     |
| 12-10 | 725 | 1225 | 330 | 255 | h=14   | 151 |          |      |      |     |     |        |     |
| 12-12 | 785 | 1285 | 330 | 255 | j=90   | 164 |          |      |      |     |     |        |     |
| 12-14 | 845 | 1345 | 330 | 255 | k=300  | 167 |          |      |      |     |     |        |     |



## UL Listed Electrical Motor





## Features

- Dual voltage motors have 12 leads, suitable for wye-delta or across the line start on either voltage, or part winding start on low voltage.
- Single voltage motors have 12 leads and are suitable for wye-delta, across the line, or part winding start.
- Will accept C-Face kits (except as noted), see accessories section for kits.
- 220/380 and 380/660 Volt 60 HZ, 1.15 SF.
- Red paint on 25 HP through 250 HP.
- 50° C ambient.
- Ball bearings.



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Safety Projects

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## UL Listed Diesel Engine



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920025873



### ENGINE RATINGS BASELINES

- Engines are to be used for stationary emergency standby fire pump service only. Engines are to be tested in accordance with NFPA 25.



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Safety Projects

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## UL / FM Fire Pump Controller



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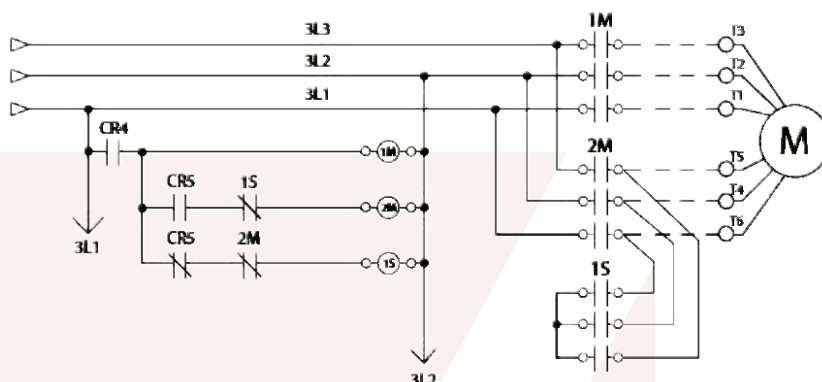
www.anc.sa



920025873



## Electric Fire Pump Controller



|                                                                                         |                                                         |                                                                                                     |                               |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------|
| Standard, Listings, Approvals and Certifications                                        | Built to NFPA 20 (latest edition)                       |                                                                                                     |                               |
|                                                                                         | Underwriters Laboratory (UL)                            | • UL218 - Fire Pump Controllers<br>• CSA C22.2 No. 14 Industrial Control Equipment                  |                               |
|                                                                                         | FM Global                                               | Class 1321/1323                                                                                     |                               |
|                                                                                         | New York City                                           | Accepted for use in the City of New York by the Department of Buildings                             |                               |
|                                                                                         | Seismic Certification                                   | See page 5 for details                                                                              |                               |
|                                                                                         | Optional                                                |                                                                                                     |                               |
|                                                                                         | <input type="checkbox"/> CE Mark                        | Various EN, IEC & CEE directives and standards                                                      |                               |
| Enclosure                                                                               | <b>Protection Rating</b>                                |                                                                                                     |                               |
|                                                                                         | <input type="checkbox"/> Standard: NEMA 2 (IP31)        |                                                                                                     |                               |
|                                                                                         | <b>Optional</b>                                         |                                                                                                     |                               |
|                                                                                         | <input type="checkbox"/> NEMA 12                        | <input type="checkbox"/> NEMA 4X-304 sst painted                                                    | <input type="checkbox"/> IP54 |
|                                                                                         | <input type="checkbox"/> NEMA 3                         | <input type="checkbox"/> NEMA 4X-304 sst brushed finish                                             | <input type="checkbox"/> IP55 |
|                                                                                         | <input type="checkbox"/> NEMA 3R                        | <input type="checkbox"/> NEMA 4X-316 sst painted                                                    | <input type="checkbox"/> IP65 |
| <input type="checkbox"/> NEMA 4                                                         | <input type="checkbox"/> NEMA 4X-316 sst brushed finish | <input type="checkbox"/> IP66                                                                       |                               |
| <b>Accessories</b>                                                                      |                                                         | <b>Paint Specifications</b>                                                                         |                               |
| • Bottom entry gland plate                                                              |                                                         | • Red RAL3002                                                                                       |                               |
| • Lifting Lugs                                                                          |                                                         | • Powder coating                                                                                    |                               |
| • Keylock handle                                                                        |                                                         | • Glossy textured finish                                                                            |                               |
| Ambient Temperature Rating                                                              | <b>Standard</b>                                         |                                                                                                     |                               |
|                                                                                         | <input type="checkbox"/> 4°C to 40°C / 39°F to 104°F    |                                                                                                     |                               |
|                                                                                         | <b>Optional</b>                                         |                                                                                                     |                               |
|                                                                                         | <input type="checkbox"/> 4°C to 55°C / 39°F to 131°F    |                                                                                                     |                               |
| Controllers built in Dubai, UAE (Tornatech FZE) are supplied standard with 55°C rating. |                                                         |                                                                                                     |                               |
| General                                                                                 | AC                                                      | <input type="checkbox"/> 120V / 1ph / 60hz<br><input type="checkbox"/> 208V to 240V / 1ph / 50-60hz |                               |
|                                                                                         | DC                                                      | <input type="checkbox"/> 12VDC<br><input type="checkbox"/> 24VDC                                    |                               |
|                                                                                         | Grounding system                                        | • Negative                                                                                          |                               |
|                                                                                         | Battery chargers                                        | • Two independent fully automatic<br>• 10A continuous charge<br>• 500mA trickle charge              |                               |

## Technical Data

### Electrical Fire Pump Controller

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ambient Temperature Rating</b>  | <b>Standard:</b><br><input type="checkbox"/> 4°C to 40°C / 39°F to 104°F<br><b>Optional:</b><br><input type="checkbox"/> 4°C to 55°C / 39°F to 131°F<br>Controllers built in Dubai, UAE (Tomatech FZE) are supplied standard with 55°C rating.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Surge Suppression</b>           | Surge arrestor rated to suppress surges above line voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Disconnecting Means</b>         | <ul style="list-style-type: none"> <li>• Isolating switch and circuit breaker assembly               <ul style="list-style-type: none"> <li>- Door interlocked in the ON position</li> <li>- Isolating switch rated not less than 115% of motor full load current</li> <li>- Circuit breaker continuous rating not less than 115% of motor full load current</li> <li>- Overcurrent sensing non-thermal type, magnetic only</li> <li>- Instantaneous trip setting of not more than 20 times the motor full load current</li> </ul> </li> <li>• Common flange mounted operating handle</li> </ul> |
| <b>Service Entrance Rating</b>     | Suitable as service entrance equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Emergency Start Handle</b>      | <ul style="list-style-type: none"> <li>• Flange mounted</li> <li>• Integrated limit switch</li> <li>• Pull and latch activation</li> <li>• Across the line start (direct on line)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Locked Rotor Protector</b>      | <ul style="list-style-type: none"> <li>• Operate shunt trip to open circuit breaker</li> <li>• Trip between 8 and 20 seconds</li> <li>• Factory set at 600% of motor full load current</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Electrical Readings</b>         | <ul style="list-style-type: none"> <li>• Voltage phase to phase (normal power)</li> <li>• Amperage of each phase when motor is running</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pressure Readings</b>           | <ul style="list-style-type: none"> <li>• Continuous system pressure display</li> <li>• Cut-in and Cut-out pressure settings</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Pressure and Event recorder</b> | <ul style="list-style-type: none"> <li>• Pressure readings with date stamp</li> <li>• Event recording with date stamp</li> <li>• Under regular maintained operation, events are stored in memory for the life of the controller.</li> <li>• Data viewable on operator interface display screen</li> <li>• Downloadable by USB port to external memory device</li> </ul>                                                                                                                                                                                                                          |
| <b>Pressure Sensing</b>            | <ul style="list-style-type: none"> <li>• Pressure transducer and run test solenoid valve assembly for fresh water application</li> <li>• Pressure sensing line connection 1/2" Female NPT</li> <li>• Drain connection 3/8"</li> <li>• Rated for 0-500PSI working pressure (standard display at 0-300PSI)</li> <li>• Externally mounted with protective cover</li> </ul>                                                                                                                                                                                                                          |

## Jockey Control Panel



### Technical Data

|           |                                                             |                                                                         |
|-----------|-------------------------------------------------------------|-------------------------------------------------------------------------|
| Listing   | Underwriters Laboratory (UL)                                | UL508A - Industrial Pump Controllers                                    |
|           | CSA                                                         | CSA C22.2 No. 14 Industrial Control Equipment                           |
|           | New York City                                               | Accepted for use in the City of New York by the Department of Buildings |
|           | Seismic Certification                                       | See page 4 for details                                                  |
|           | Optional                                                    |                                                                         |
|           | <input type="checkbox"/> CE Mark                            | Various EN, IEC & CEE directives and standards                          |
| Enclosure | Protection Rating                                           |                                                                         |
|           | <input checked="" type="checkbox"/> Standard: NEMA 2 (IP31) |                                                                         |
|           | Optional                                                    |                                                                         |
|           | <input type="checkbox"/> NEMA 12                            | <input type="checkbox"/> NEMA 4X-304 sst painted                        |
|           | <input type="checkbox"/> NEMA 3                             | <input type="checkbox"/> NEMA 4X-304 sst brushed finish                 |
|           | <input type="checkbox"/> NEMA 3R                            | <input type="checkbox"/> NEMA 4X-316 sst painted                        |
|           | <input type="checkbox"/> NEMA 4                             | <input type="checkbox"/> NEMA 4X-316 sst brushed finish                 |
|           | <b>Accessories</b>                                          | <b>Paint Specifications</b>                                             |
|           | • Wall mounting lugs ( x4)                                  | • Red RAL3002                                                           |
|           |                                                             | • Powder coating                                                        |
|           |                                                             | • Glossy textured finish                                                |

## Technical Data

### Jockey Control Panel

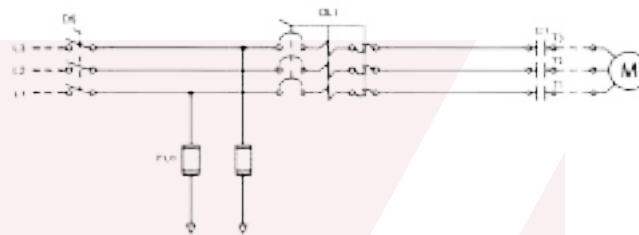
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                                                                                                           |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Fuseless Motor Starter  | <ul style="list-style-type: none"> <li>• Main disconnect – padlockable – rotary type handle – door interlocked</li> <li>• Thermo-magnetic motor protector</li> <li>• Contactor</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                                                                                                           |
| Control Circuit         | <ul style="list-style-type: none"> <li>• 24V.AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                                                                                                           |
| iPD+ Operator Interface | <ul style="list-style-type: none"> <li>• Solid state controls</li> <li>• All adjustments on door front</li> <li>• Navigation pushbuttons</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                                                           |
| Pressure Sensing        | <ul style="list-style-type: none"> <li>• Pressure transducer for fresh water application 316 stainless steel construction</li> <li>• Rated for 0-600psi working pressure</li> <li>• Pressure sensing line connection ¼" Male NPT</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                                                                           |
| Visual Indications      | <ul style="list-style-type: none"> <li>• Manual motor start/run LED</li> <li>• Automatic motor start/run LED</li> <li>• Motor overload</li> <li>• Pressure reading <ul style="list-style-type: none"> <li>• Start pressure</li> <li>• Stop pressure</li> <li>• System pressure</li> </ul> </li> <li>• System pressure diagnostic LED's <ul style="list-style-type: none"> <li>• Green: system pressure at or above stop pressure</li> <li>• Yellow: system pressure between start and stop pressure</li> <li>• Red: system pressure at or below start pressure</li> </ul> </li> <li>• AUTO mode</li> <li>• OFF mode</li> </ul> |                                     |                                                                                                                           |
| Timers                  | <ul style="list-style-type: none"> <li>• Minimum run timer (off delay)</li> <li>• Delay start timer (on delay)</li> <li>• Visual countdown</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                                                                                                           |
| Counters                | <ul style="list-style-type: none"> <li>• Pump start counter</li> <li>• Elapsed timer meter (hours / non-resettable)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                                                                                                                           |
| Operators               | <ul style="list-style-type: none"> <li>• OFF-AUTO pushbutton</li> <li>• Start and Stop pushbutton</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                                                                                                           |
| Operation               | Automatic Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Start on pressure drop              |                                                                                                                           |
|                         | Manual Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Start pushbutton                    |                                                                                                                           |
|                         | Stopping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Stop pushbutton                     |                                                                                                                           |
|                         | Timers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Field adjustable & visual countdown | <ul style="list-style-type: none"> <li>• Minimum run timer (off delay)</li> <li>• Delay start timer (on delay)</li> </ul> |



## Diesel Control Panel



### Technical Data



|                                                  |                                                                                         |                                                                                    |
|--------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Standard, Listings, Approvals and Certifications | Built to NFPA 20 (latest edition)                                                       |                                                                                    |
|                                                  | Underwriters Laboratory (UL)                                                            | • UL218 - Fire Pump Controllers<br>• CSA C22.2 No. 14 Industrial Control Equipment |
|                                                  | FM Global                                                                               | Class 1321/1323                                                                    |
|                                                  | New York City                                                                           | Accepted for use in the City of New York by the Department of Buildings            |
|                                                  | Seismic Certification                                                                   | See page 5 for details                                                             |
|                                                  | <b>Optional</b>                                                                         |                                                                                    |
| Enclosure                                        | <input type="checkbox"/> CE Mark                                                        | Various EN, IEC & CEE directives and standards                                     |
|                                                  | <b>Protection Rating</b>                                                                |                                                                                    |
|                                                  | <input type="checkbox"/> Standard: NEMA 2 (IP31)                                        |                                                                                    |
|                                                  | <b>Optional</b>                                                                         |                                                                                    |
|                                                  | <input type="checkbox"/> NEMA 12                                                        | <input type="checkbox"/> NEMA 4X-304 sst painted                                   |
|                                                  | <input type="checkbox"/> NEMA 3                                                         | <input type="checkbox"/> NEMA 4X-304 sst brushed finish                            |
| Ambient Temperature Rating                       | <input type="checkbox"/> NEMA 3R                                                        | <input type="checkbox"/> NEMA 4X-316 sst painted                                   |
|                                                  | <input type="checkbox"/> NEMA 4                                                         | <input type="checkbox"/> NEMA 4X-316 sst brushed finish                            |
|                                                  | <b>Accessories</b>                                                                      |                                                                                    |
|                                                  | • Bottom entry gland plate<br>• Lifting Lugs<br>• Keylock handle                        |                                                                                    |
|                                                  | <b>Paint Specifications</b>                                                             |                                                                                    |
|                                                  | • Red RAL3002<br>• Powder coating<br>• Glossy textured finish                           |                                                                                    |
| General                                          | <b>Standard</b>                                                                         |                                                                                    |
|                                                  | <input type="checkbox"/> 4°C to 40°C / 39°F to 104°F                                    |                                                                                    |
|                                                  | <b>Optional</b>                                                                         |                                                                                    |
|                                                  | <input type="checkbox"/> 4°C to 55°C / 39°F to 131°F                                    |                                                                                    |
|                                                  | Controllers built in Dubai, UAE (Tornatech FZE) are supplied standard with 55°C rating. |                                                                                    |
|                                                  | <b>AC</b>                                                                               |                                                                                    |
| Electrical Reading                               | <input type="checkbox"/> 120V / 1ph / 60hz                                              |                                                                                    |
|                                                  | <input type="checkbox"/> 208V to 240V / 1ph / 50-60hz                                   |                                                                                    |
|                                                  | <b>DC</b>                                                                               |                                                                                    |
|                                                  | <input type="checkbox"/> 12VDC                                                          |                                                                                    |
|                                                  | <input type="checkbox"/> 24VDC                                                          |                                                                                    |
|                                                  | <b>Grounding system</b>                                                                 |                                                                                    |
| Pressure Reading                                 | • Negative                                                                              |                                                                                    |
|                                                  | <b>Battery chargers</b>                                                                 |                                                                                    |
|                                                  | • Two independent fully automatic                                                       |                                                                                    |
|                                                  | • 10A continuous charge                                                                 |                                                                                    |
|                                                  | • 500mA trickle charge                                                                  |                                                                                    |
|                                                  | <b>Electrical Reading</b>                                                               |                                                                                    |
|                                                  | • Battery 1 & Battery 2 voltage                                                         |                                                                                    |
|                                                  | • Battery 1 & Battery 2 charging amperage                                               |                                                                                    |
|                                                  | • Charging mode                                                                         |                                                                                    |
|                                                  | <b>Pressure Reading</b>                                                                 |                                                                                    |
|                                                  | • Continuous system pressure display                                                    |                                                                                    |
|                                                  | • Cut-in and cut-out pressure setting                                                   |                                                                                    |

## Technical Data

### Diesel Control Panel

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pressure sensing</b>            | <ul style="list-style-type: none"> <li>• Pressure transducer and run test solenoid valve assembly for fresh water application</li> <li>• Pressure sensing connection 1/2" Female NPT</li> <li>• Drain connection 3/8"</li> <li>• Rated and calibrated for 0-500psi working pressure</li> <li>• Externally mounted with protective cover</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Audible Alarm</b>               | 4" alarm bell - 85 dB at 10ft. (3m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Visual Indications</b>          | <ul style="list-style-type: none"> <li>• Engine run</li> <li>• Main switch AUTO</li> <li>• Main switch in OFF</li> <li>• Main switch in HAND</li> <li>• Periodic test</li> <li>• Cranking Cycle</li> <li>• AC Power available</li> <li>• Pump room temperature (°F or °C)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Visual &amp; Audible Alarms</b> | <p><b>Visual only</b></p> <ul style="list-style-type: none"> <li>• Pump room trouble</li> <li>• Pump on demand</li> <li>• AC Failure</li> <li>• Charger 1 Failure</li> <li>• Charger 2 Failure</li> <li>• Weak battery 1</li> <li>• Weak battery 2</li> <li>• Battery 1 overvoltage</li> <li>• Battery 2 overvoltage</li> </ul> <p><b>Visual and Audible</b></p> <ul style="list-style-type: none"> <li>• Engine trouble</li> <li>• Controller trouble</li> <li>• Engine low oil pressure</li> <li>• Engine high temperature</li> <li>• Engine low temperature</li> <li>• Engine overspeed</li> <li>• DC Failure</li> </ul> <ul style="list-style-type: none"> <li>• Loss of continuity 1</li> <li>• Loss of continuity 2</li> <li>• High fuel level</li> <li>• Fuel tank leak</li> <li>• PLD low suction pressure</li> <li>• High raw water temperature</li> <li>• Low pump room temperature</li> <li>• Battery 1 Failure</li> <li>• Battery 2 Failure</li> <li>• Engine fail to start</li> <li>• Low fuel level</li> <li>• ECM fault</li> <li>• ECM SS in Alternate Position</li> <li>• Fuel injection malfunction</li> </ul> <ul style="list-style-type: none"> <li>• High pump room temperature</li> <li>• ECM warning</li> <li>• Weekly test cut-in not reached</li> <li>• Check weekly test solenoid</li> <li>• Pressure transducer fault</li> <li>• Invalid Cut-In</li> <li>• Service required</li> </ul> |
| <b>Remote Alarm Contacts</b>       | <p>DPDT-8A-250V.AC</p> <ul style="list-style-type: none"> <li>• Engine run</li> <li>• Common controller trouble <ul style="list-style-type: none"> <li>• Charger #1 &amp; Charger #2 failure</li> </ul> </li> <li>• Common engine trouble <ul style="list-style-type: none"> <li>• High engine temperature</li> <li>• Fail to start</li> <li>• Fuel injection malfunction**</li> <li>• ECM selector switch in alternate position***</li> </ul> </li> <li>• Common pump room trouble (field re-assignable)* <ul style="list-style-type: none"> <li>• Low fuel level</li> <li>• High fuel level</li> <li>• Fuel tank leak</li> </ul> </li> <li>• H-O-A selector switch in OFF or HAND</li> <li>• Free (field programmable)*</li> <li>• Pressure transducer fault</li> <li>• Battery #1 &amp; battery #2 failure</li> <li>• DC failure</li> <li>• Loss of continuity (starter) #1 and/or #2</li> <li>• PLD low suction pressure</li> <li>• Overspeed</li> <li>• Fail when running</li> <li>• Low oil pressure</li> <li>• AC Failure</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      |

## Technical Data

### Diesel Control Panel

|                                                      |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                  |                                                                                                                                                               |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminals for Field Connections for External Devices | <ul style="list-style-type: none"><li>• Low fuel level</li><li>• Remote AUTOMATIC start</li><li>• Deluge valve start (re-assignable)</li><li>• Fuel tank leak (re-assignable)</li><li>• High fuel level (re-assignable)</li></ul> |                                                                                                                                                                                                                                  |                                                                                                                                                               |
| VIZITouch V2 Operator Interface                      | <ul style="list-style-type: none"><li>• Embedded microcomputer with software PLC logic</li><li>• 7.0" color touch screen (HMI technology)</li><li>• Upgradable software</li><li>• Multi-language</li></ul>                        |                                                                                                                                                                                                                                  |                                                                                                                                                               |
| Operation                                            | Selector Switch                                                                                                                                                                                                                   | <ul style="list-style-type: none"><li>• Hand-Off-Auto</li><li>• Behind lockable and breakable cover</li></ul>                                                                                                                    |                                                                                                                                                               |
|                                                      | Automatic Start                                                                                                                                                                                                                   | <ul style="list-style-type: none"><li>• Start on pressure drop</li><li>• Remote start signal from automatic device</li></ul>                                                                                                     |                                                                                                                                                               |
|                                                      | Manual Start                                                                                                                                                                                                                      | <ul style="list-style-type: none"><li>• Crank 1 and Crank 2 start pushbuttons</li><li>• Run test pushbutton</li><li>• Deluge valve start</li><li>• Remote start from manual device</li></ul>                                     |                                                                                                                                                               |
|                                                      | Crank Cycle                                                                                                                                                                                                                       | <ul style="list-style-type: none"><li>• 6 consecutive cycle attempts<ul style="list-style-type: none"><li>• 3 X 15s crank from battery 1 or 2 alternatively</li><li>• 15s rest in between each crank attempt</li></ul></li></ul> |                                                                                                                                                               |
|                                                      | Stopping                                                                                                                                                                                                                          | <ul style="list-style-type: none"><li>• Manual with Stop pushbutton</li><li>• Automatic after expiration of minimum run timer ****</li></ul>                                                                                     |                                                                                                                                                               |
|                                                      | Timers                                                                                                                                                                                                                            | Field Adjustable & Visual Countdown                                                                                                                                                                                              | <ul style="list-style-type: none"><li>• Minimum run timer ****(off delay)</li><li>• Sequential start timer (on delay)</li><li>• Periodic test timer</li></ul> |
|                                                      | Actuation                                                                                                                                                                                                                         | Visual Indication                                                                                                                                                                                                                | <ul style="list-style-type: none"><li>• Pressure</li><li>• Non-pressure</li></ul>                                                                             |
|                                                      | Mode                                                                                                                                                                                                                              |                                                                                                                                                                                                                                  | <ul style="list-style-type: none"><li>• Automatic</li><li>• Non-automatic</li></ul>                                                                           |
| Communication Protocol Capability                    | <ul style="list-style-type: none"><li>• Protocol: Modbus</li><li>• Connection type: Shielded female connector RJ45</li><li>• Frame Format: TCP/IP</li><li>• Addresses: See bulletin MOD-GPD</li></ul>                             |                                                                                                                                                                                                                                  |                                                                                                                                                               |

| Alarm and shutdown schedule |                  |            |            |          |
|-----------------------------|------------------|------------|------------|----------|
|                             | High Coolant     | Alarm only | Alarm only | Shutdown |
|                             | Low Oil Pressure | Alarm only | Alarm only | Shutdown |
|                             | Overspeed        | Shutdown   | Shutdown   | Shutdown |

| Starting Voltage | Approx. shipping dimensions in inches (mm)  | Approx. Shipping Weight in Lbs (kg) | Approx. shipping dimensions in inches (mm) | Approx. Shipping Weight in Lbs (kg) |
|------------------|---------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|
| 12V.DC           | 32" l x 29" w x 16" h<br>(813 x 737 x 407 ) | 85 (39)                             | 32" l x 29" w x 26" h<br>(813 x 737 x 661) | 115 (52)                            |
| 24V.DC           |                                             |                                     |                                            |                                     |



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## UL Listed Fire Pump Accessories



## AIR RELEASE VALVE



### Product Features

- Ductile Iron Body
- Stainless Steel Trim and Float
- Easily serviced without removal from pipeline
- Available Pressure Ratings: 175 and 300
- Engineered for drip tight seal at low pressures

## PRESSURE GAUGE



### Product Features

- Power Flex™ movement provides superior resistance to shock, vibration and pulsation
- TrueZero™ reduces reading errors by using a "zero box" instead of conventional dial pins
- Water or Air gauges available for wet/dry
- Heat-resistant polycarbonate push-in window
- Custom dials available

## FUEL TANK



| NOMINAL<br>TANK SIZE<br>IN GALLONS | USABLE<br>VOLUME<br>IN GALLONS | A         | B         | C       | D       | E       | F        | G         | H        | L           | Z |
|------------------------------------|--------------------------------|-----------|-----------|---------|---------|---------|----------|-----------|----------|-------------|---|
| 119                                | 105                            | 74 (609)  | 61 (1548) | 6 (152) | 6 (152) | 6 (152) | 12 (304) | 37 (939)  | 14 (355) | 3 (76)      | 4 |
| 187                                | 165                            | 30 (761)  | 61 (1548) | 6 (152) | 6 (152) | 6 (152) | 12 (304) | 37 (939)  | 16 (406) | 3 (76)      | 4 |
| 300                                | 270                            | 30 (764)  | 61 (1548) | 6 (152) | 6 (152) | 6 (152) | 13 (330) | 37 (939)  | 23 (584) | 3-3/4 (95)  | 4 |
| 359                                | 320                            | 36 (914)  | 73 (1853) | 6 (152) | 6 (152) | 6 (152) | 18 (457) | 44 (1117) | 23 (584) | 3-3/4 (95)  | 4 |
| 572                                | 515                            | 48 (1218) | 73 (1853) | 6 (152) | 6 (152) | 6 (152) | 19 (483) | 44 (1117) | 30 (761) | 4-3/4 (121) | 4 |
| 849                                | 786                            | 64 (1626) | 61 (1548) | 6 (152) | 6 (152) | 6 (152) | 24 (603) | 44 (1117) | 30 (761) | 4-3/4 (121) | 4 |
| 1300                               | 993                            | 64 (1626) | 79 (2007) | 6 (152) | 6 (152) | 6 (152) | 31 (787) | 44 (1117) | 30 (761) | 4-3/4 (121) | 4 |





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920025873

## Fire Pump - E.J Model

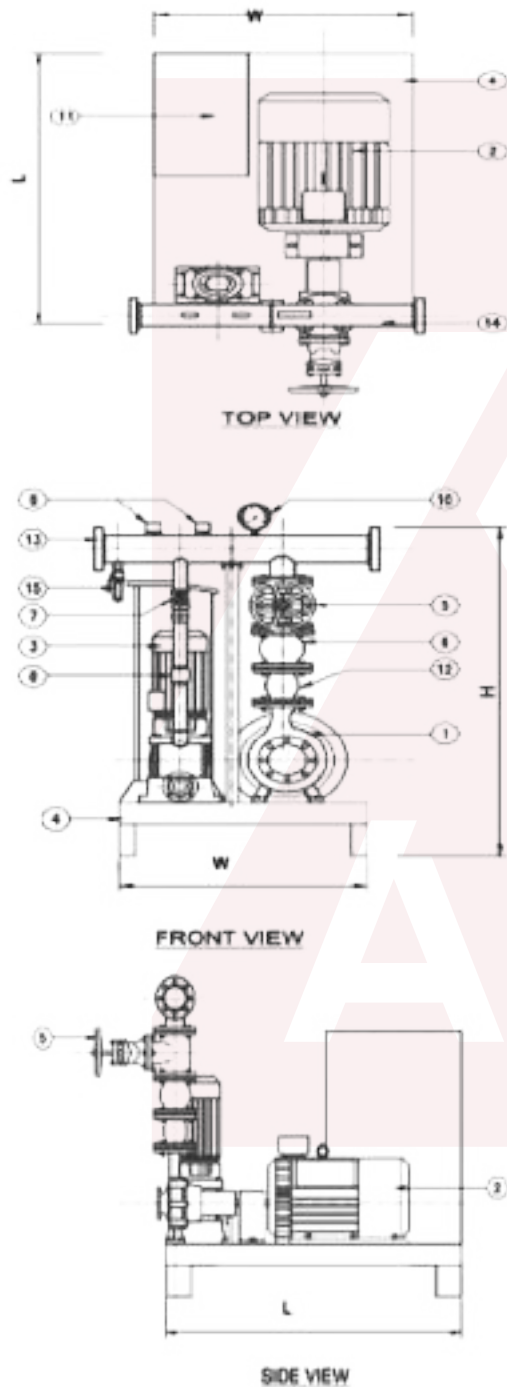


Consist of Main Pump driven by electric Motor, stand by Diesel Engine & Vertical Jockey ( used as a substitute during maintenance ) Pump that all are assembled with discharge line accessories as well as connected with Skid Mounted Control Panel .

**Available flow Capacities** ( 100, 120, 150, 200, 250, 300, 350, 500, 750, 1000, 1250, 1500, 2000 ) GPM

## Technical Data

### E.J Model



### Bill of Materials

| ITEM No. | DESCRIPTION                                      | QTY. | MATERIAL   |
|----------|--------------------------------------------------|------|------------|
| 1        | MAIN FIRE PUMP, ELECTRICAL MOTOR DRIVEN, MODEL : | 01   | --         |
| 2        | ELECTRICAL MOTOR                                 | 01   | --         |
| 3        | JOCKEY PUMP,                                     | 01   | --         |
| 4        | BASE (FRAME AND PLATE)                           | 01   | MILD STEEL |
| 5        | OS&Y GATE VALVE-FLANGE TYPE                      | 01   | CAST IRON  |
| 6        | CHECK VALVE - FLANGE TYPE                        | 01   | CAST IRON  |
| 7        | GATE VALVE - THREAD TYPE                         | 01   | BRASS      |
| 8        | CHECK VALVE - THREAD TYPE                        | 01   | BRASS      |
| 9        | PRESSURE SWITCH                                  | 02   | --         |
| 10       | PRESSURE GAUGE                                   | 01   | --         |
| 11       | CONTROL PANEL                                    | 01   | --         |
| 12       | FLEXIBLE JOINT                                   | 01   | RUBBER     |
| 13       | SLIP-ON FLANGE                                   | 02   | --         |
| 14       | DISCHARGE MANIFOLD                               | 01   | --         |
| 15       | DRAINAGE PIPE                                    | 01   | --         |

## Fire Pump - D.J Model



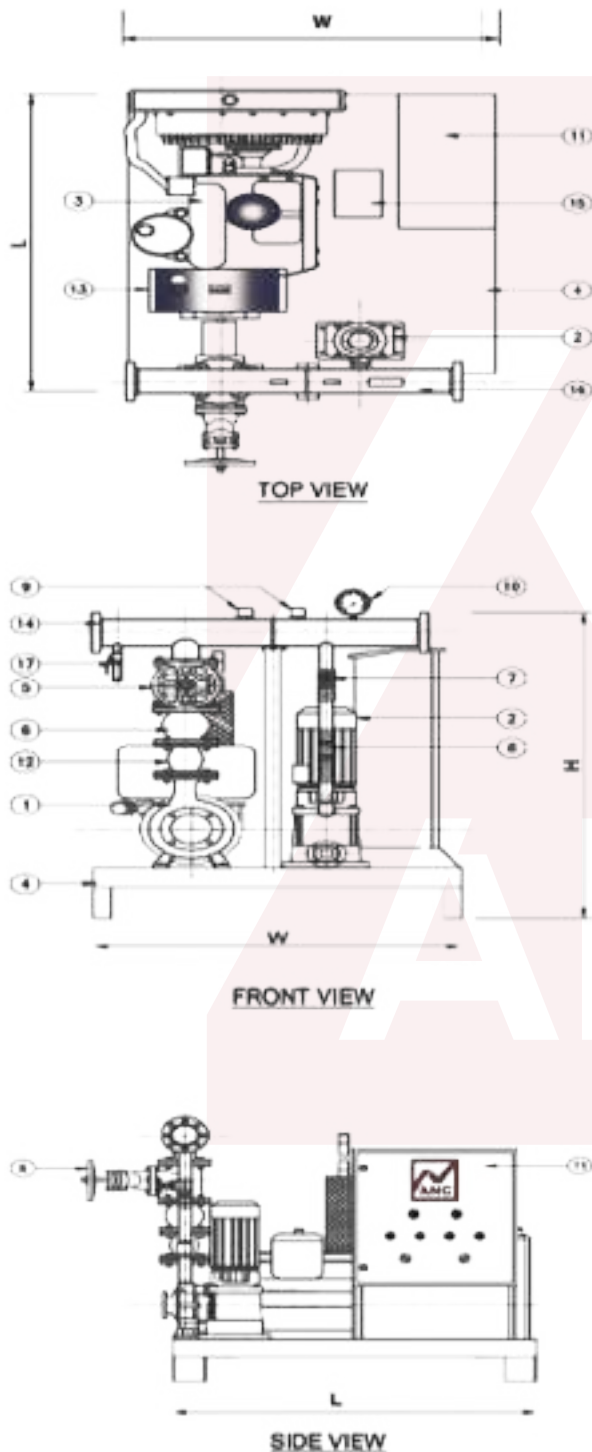
Consist of Main Pump deiven by electric Motor, stand by Diesel Emgine & Vertical Jockey ( used as a substitute during maintenance) Pump that all are assembled with discharge line accessories as well as connected with Skid Mounted Control Panel .

**Availble flow Capacities** ( 100, 120, 150, 200, 250, 300, 350, 500, 750, 1000, 1250, 1500, 2000 ) GPM



## Technical Data

### D.J Model



### Bill of Materials

| ITEM No. | DESCRIPTION                                  | QTY. | MATERIAL   |
|----------|----------------------------------------------|------|------------|
| 1        | MAIN FIRE PUMP, DIESEL ENGINE DRIVEN MODEL : | 01   | --         |
| 2        | JOCKEY PUMP,                                 | 01   | --         |
| 3        | DIESEL ENGINE                                | 01   | --         |
| 4        | BASE (FRAME AND PLATE)                       | 01   | MILD STEEL |
| 5        | OS&Y GATE VALVE-FLANGE TYPE                  | 01   | CAST IRON  |
| 6        | CHECK VALVE - FLANGE TYPE                    | 01   | CAST IRON  |
| 7        | GATE VALVE - THREAD TYPE                     | 01   | BRASS      |
| 8        | CHECK VALVE - THREAD TYPE                    | 01   | BRASS      |
| 9        | PRESSURE SWITCH                              | 02   | --         |
| 10       | PRESSURE GAUGE                               | 01   | --         |
| 11       | CONTROL PANEL                                | 01   | --         |
| 12       | FLEXIBLE JOINT                               | 02   | RUBBER     |
| 13       | DIESEL TANK                                  | 01   | --         |
| 14       | SLIP-ON FLANGE                               | 02   | --         |
| 15       | BATTERY BOX                                  | 01   | --         |
| 16       | DISCHARGE MANFOLD                            | 01   | --         |
| 17       | DRAINAGE PIPE                                | 01   | --         |

## Fire Pump - E.D.J Model

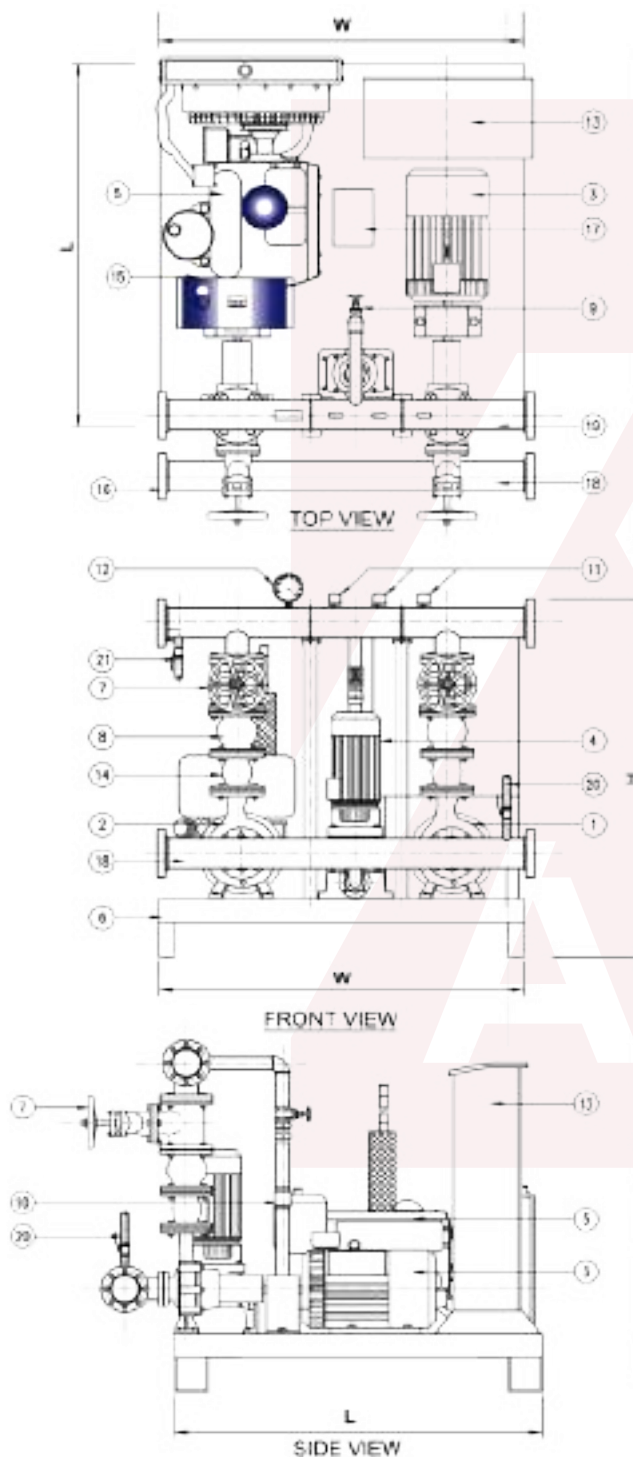


Consist of Main Pump driven by electric Motor, stand by Diesel Engine & Vertical Jockey ( used as a substitute during maintenance ) Pump that all are assembled with discharge line accessories as well as connected with Skid Mounted Control Panel .

**Available flow Capacities** ( 100, 120, 150, 200, 250, 300, 350, 500, 750, 1000, 1250, 1500, 2000 ) GPM

## Technical Data

### E.D.J Model



### Bill of Materials

| ITEM No. | DESCRIPTION                                                           | QTY. | MATERIAL   |
|----------|-----------------------------------------------------------------------|------|------------|
| 1        | MAIN FIRE PUMP, ELECTRICAL MOTOR DRIVEN, MODEL : ANC PS 65-200/370    | 01   | --         |
| 2        | STANDBY FIRE PUMP, DIESEL ENGINE DRIVEN MODEL : ANC PS 65-250/370     | 01   | --         |
| 3        | ELECTRICAL MOTOR. 50 HP                                               | 01   | --         |
| 4        | JOCKEY PUMP. 5.5 HP                                                   | 01   | --         |
| 5        | DIESEL ENGINE 40 KW                                                   | 01   | --         |
| 6        | BASE (FRAME AND PLATE)                                                | 01   | MILD STEEL |
| 7        | OS&Y GATE VALVE-FLANGE TYPE                                           | 02   | CAST IRON  |
| 8        | CHECK VALVE - FLANGE TYPE                                             | 02   | CAST IRON  |
| 9        | GATE VALVE - THREAD TYPE                                              | 01   | BRASS      |
| 10       | CHECK VALVE - THREAD TYPE                                             | 01   | BRASS      |
| 11       | PRESSURE SWITCH                                                       | 03   | --         |
| 12       | PRESSURE GAUGE                                                        | 01   | --         |
| 13       | CONTROL PANEL                                                         | 01   | --         |
| 14       | FLEXIBLE JOINT                                                        | 02   | RUBBER     |
| 15       | DIESEL TANK                                                           | 01   | --         |
| 16       | SUP-ON FLANGE                                                         | 04   | --         |
| 17       | BATTERY BOX                                                           | 01   | --         |
| 18       | SUCTION MANIFOLD 6" - 150 mm                                          | 01   | --         |
| 19       | DISCHARGE MANIFOLD 6" - 150 mm                                        | 01   | --         |
| 20       | PRIMING CONNECTION FOR UNDERGROUND WATER TANK (NEGATIVE SUCTION PUMP) | 01   | --         |
| 21       | DRAINAGE PIPE 50 mm                                                   | 01   | --         |



## SASO Approved Split Case & End Suction

## Split Case Pump



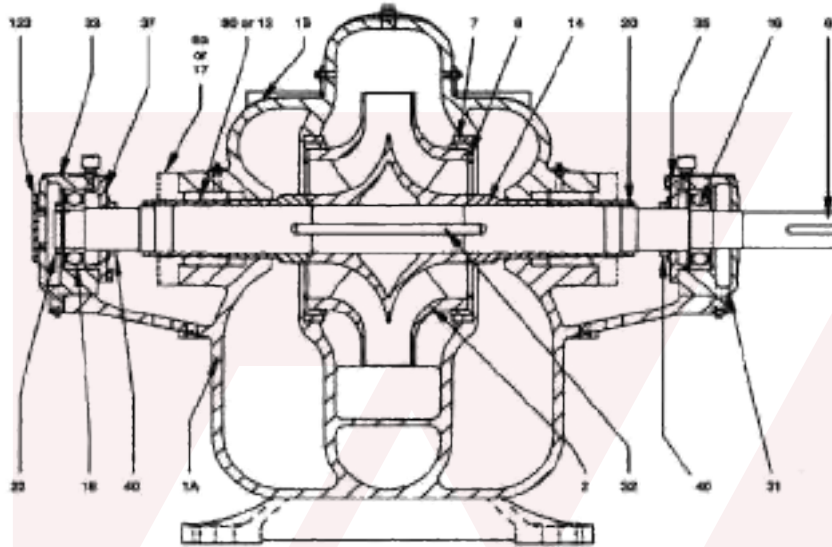
### Description

- Reliable complete with motor or diesel for fire fighting etc.
- Pump case with anti-corrosive coating HT250
- Double-entry radial impeller in AISI104 or HT250
- Shaft protecting sleeves in the seal area
- Mechanical seal and gland packing are both available
- Grease-packed rolling element bearings sealed for life
- Axially split volute pump casing design



# Pump Materials

## Split Case



| No. | Description   | Material  | No | Description  | Material        | No | Description                 | Material            |
|-----|---------------|-----------|----|--------------|-----------------|----|-----------------------------|---------------------|
| 1   | Block ring    | Rubber    | 8  | Seal house   | Cast iron       | 15 | Gland seal(Mechanical Seal) | Synthepak(SIC Carbo |
| 2   | O-ring        | Rubber    | 9  | Bearing      | Ball Bearing    | 16 | Release Valve               | Brass               |
| 3   | Flushing pipe | SS304     | 10 | Lock washer  | Steel           | 17 | Pump Case                   | Cast iron           |
| 4   | Packing ring  | Carbon    | 11 | Shaft        | SS304/45# Steel | 18 | Impeller                    | SS304/Cast iron     |
| 5   | Valve         | Brass     | 12 | Shaft Key    | Iron            | 19 | Output flange               | Cast iron           |
| 6   | Pump cover    | Cast iron | 13 | Input flange | Cast iron       | 20 | Shaft sleeve                | SS304               |
| 7   | Vent plug     | Brass     | 14 | Bolt         | Steel           | 21 | Bearing house               | Cast iron           |

## End Suction - Electrical Pump



### Description

According to NFPA20, centrifugal shall be of the overhung impeller design with close or separate couple end suction type.

Pump capacities are based on the calculate system demand

Fire pump shutoff head should not exceed 140% of the nominal value.

Recommended the maximum system demand flow correlate to a point on pump curve between 90% to 140% of the pump capacity.

## Electrical Pump

### End Suction

| Model      | PSM                                |
|------------|------------------------------------|
| Capacity   | 0-1000 m <sup>3</sup> /h           |
| Head       | 0-164 m                            |
| DN         | 32-150 mm                          |
| Speed      | 3500 rpm                           |
| T max      | 120 °C                             |
| Power      | 1.5-315 kW                         |
| Casing     | Grey cast iron <sup>®</sup>        |
| Impeller   | Cast iron/AISI 304/Brass           |
| Shaft      | AISI 304                           |
| Shaft seal | Mechanical Seal                    |
| Bearing    | Grease lubrication rolling bearing |

## End Suction - Diesel Pump



### Description

- Diesel engines have proven to be very reliable and effective for driving fire pumps
- Diesel engines are currently the only type of internal combustion engine permitted by NFPA 20
- Each engine shall be provided with two storage battery units according to NFPA20
- Diesel engines for fire pump is of the compression ignition type
- Advanced direct injection and combustion system.

## Diesel Pump

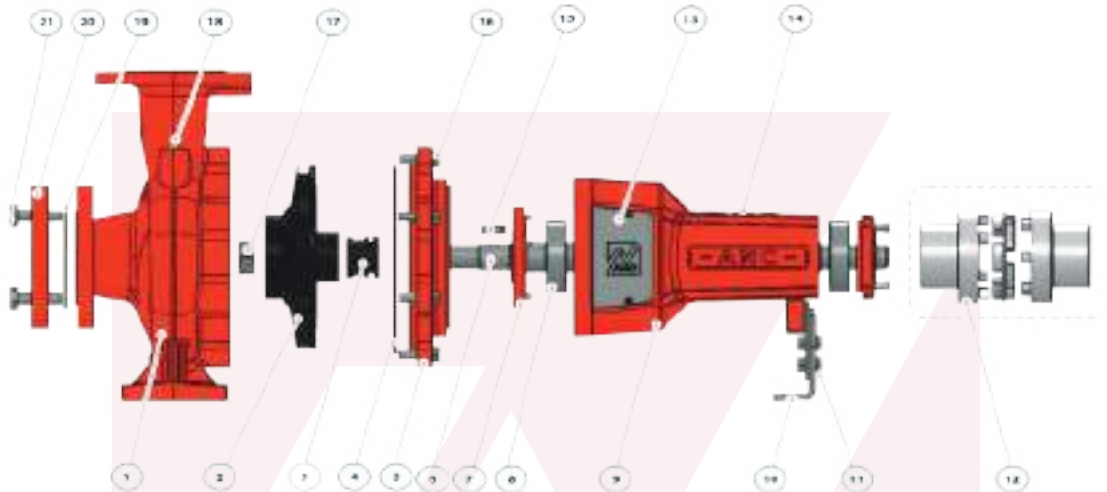
### End Suction

| Model      | PSD                                |                   |
|------------|------------------------------------|-------------------|
| Capacity   | 0-1000                             | m <sup>3</sup> /h |
| Head       | 0-164                              | m                 |
| DN         | 32-150                             | mm                |
| Speed      | 3000                               | rpm               |
| T max      | 120                                | °C                |
| Power      | 6.3-300                            | kW                |
| Casing     | Grey cast iron <sup>®</sup>        |                   |
| Impeller   | Cast iron/AISI 304/Brass           |                   |
| Shaft      | AISI 304                           |                   |
| Shaft seal | Mechanical Seal                    |                   |
| Bearing    | Grease lubrication rolling bearing |                   |



# Pump Materials

## End Suction



| No. | Description     | Material         | No. | Description        | Material     | No. | Description     | Material             |
|-----|-----------------|------------------|-----|--------------------|--------------|-----|-----------------|----------------------|
| 1   | Pump Case       | Cast Iron        | 8   | Bearing            | Ball Bearing | 15  | Impeller Key    | Iron                 |
| 2   | Impeller        | SS304/Cast Iron  | 9   | Support Case       | Cast Iron    | 16  | Connection Bolt | Steel                |
| 3   | Mechanical Seal | SIC/Carbon/SS304 | 10  | Support Foot       | Iron         | 17  | Impeller Nut    | Galvanized Steel     |
| 4   | O-ring          | Rubber           | 11  | Foot Bolt          | Steel        | 18  | Release Valve   | Brass                |
| 5   | Connection      | Cast Iron        | 12  | Coupling(Optional) | Steel        | 19  | Gasket          | Rubber               |
| 6   | Shaft           | SS304/45# Steel  | 13  | Case Cover         | SS304        | 20  | Counter Flange  | Galvanized Cast iron |
| 7   | Bearing Cover   | Cast Iron        | 14  | Nameplate          | Aluminum     | 21  | Flange Bolt     | Steel                |



## SASO Approved Electrical Motor



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## Description

- Design according to IEC60034 standard
- Total Enclosed Fan Cooling Type Motor
- IE3 high efficient motor
- Protection IPSS class F
- Quality NSK bearing
- Continuous duty 51
- Reliable used for fire fighting system etc.
- Ambient temperature up to +50°C
- Cooling type : IC411



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## SASO Approved Jockey Pump



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## Description

- YE3 high efficient motor, with protection IPSS class F Quality
- 5S304 vertical, multistage centrifugal pump
- The suction and discharge ports on the same level
- PVT pump head and base are in cast iron
- PVT pump impeller and shaft are in stainless steel
- PVS pump all wetted parts are in stainless steel
- bearing, wear resistance mechanical seal
- Liquid temperature between -10°C and +120°C





## SASO Approved Pump Control Panel



Fire Pump Unit Controller is the Pump Package brain that designed to Control & Monitor the operation of the Main, Standby, and Jockey pumps Drivers, and makes up pumps for both Manual & Automatic modes, as well as turns pumps drivers ON/OFF under specific conditions.

The Fire Pump Package Controller detects signals through set of built in switches that reflect the system Pressure & Flow status enabling fire pump package drivers (Electrical / Diesel/Jockey) to operate in case of pressure in the system is lower than set point, as well as operating the Stand by driver due to power failure and/or substantial drop in pressure. ANC Pumps Series Controllers are pre-wired, and factory tested before deliver and made ready for immediate use.

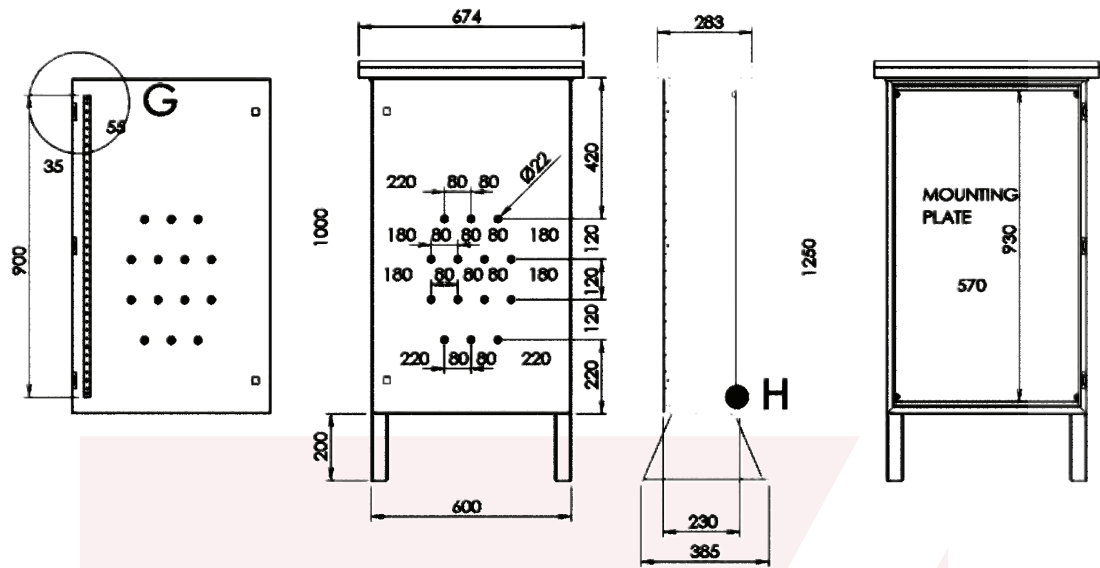


## Pump Controller Features

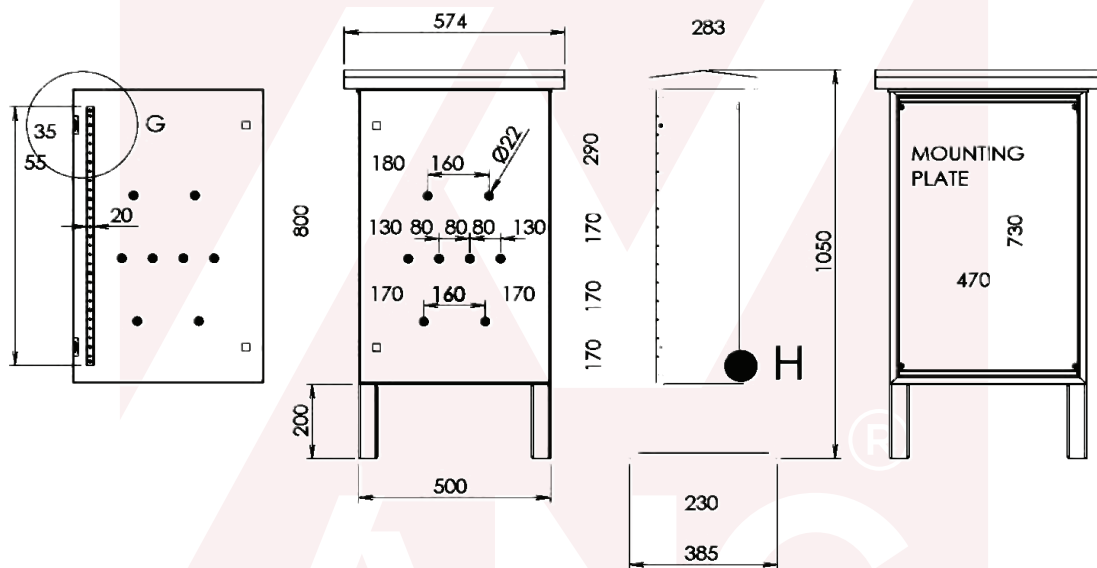
- Standard Dry Run Protection (above 100 GPM pumps).
- Compatible with any remote signaling or monitoring systems like BMS OR FACP.
- DOL - (Below 60 HP Motor Size)/ Star Delta.
- Electronic battery charger (current sensing).
- Lamp test facility (optional).
- Circuit available up on request.
- Fault Trip facility (other than dry run - optional).
- Different Mounting Styles.
- Low Maintenance Cost and available spare parts .
- Crank protection circuit for (optional).
- Standard cable marking for easy maintenance.
- Delayed start for fire signal (optional).
- Low Pressure cut-off (timer based) (optional).
- Strong, Reliable and Elegant Standard Red Powder Coated Galvanized Steel Enclosure.
- Stainless Steel Enclosures are available for outdoor applications (Optional).

# Dimensions

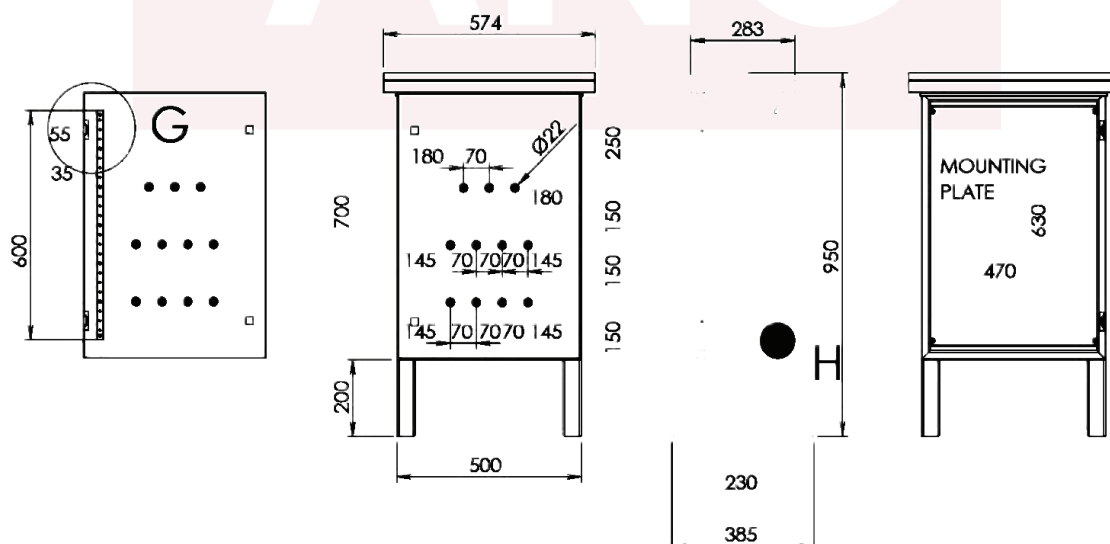
## Model A



## Model B



## Model C





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## SASO Fire Pumps Accessories



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## Pump Accessories

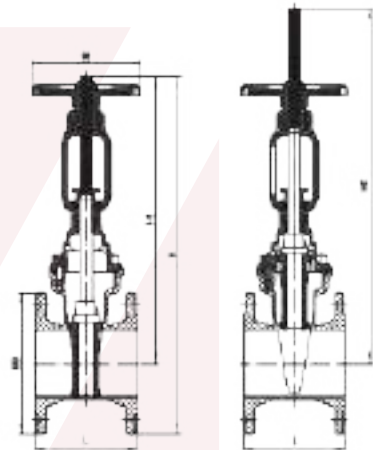


## OS & Y Gate Valve - Flange End



### Technical Data

Sizes: DN50~DN300  
Working pressure: PN16/PN25  
Valve standard: EN1171  
Flange standard: EN1092-2  
Temperature range: 0 - 50°C



## Gate Valve

### Technical Data

Size: 1/2-4"  
Nominal Pressure: 16bar  
Working Temperature : -20~120°C  
Parallel Pipe Thread to ISO 228

| DN | SIZE   | D  | H   | L  | L1   |
|----|--------|----|-----|----|------|
| 50 | 2"     | 50 | 155 | 65 | 22   |
| 40 | 1-1/2" | 35 | 125 | 76 | 17.5 |



## Flange Check Valve



### Technical Data

Sizes: DN50~200  
Working pressure: PN10/16/25  
Flange standard: EN1092-2  
Temperature range: 0 ~ 80°C

## Flange Check Valve

### Technical Data

Size: 1/2-4"  
Nominal Pressure: 16bar  
Working Temperature: t: SI;00°C  
Parallel Pipe Thread to ISO 228



## Flexible

### Description



Flexible connectors are used to absorb thermal and seismic movement, absorb hydraulic shock, provide vibration and noise dampening, ease installation and correct minor misalignment of piping and components. They come in a variety of sizes, materials, and connection ends for numerous applications.

### Technical Data

#### Standard Materials

| Ref. No. | Description        | Material        |
|----------|--------------------|-----------------|
| 1        | Flange             | Carbon Steel    |
| 2        | Reinforcement Wire | Carbon Steel    |
| 3        | Description Fabric | Synthetic Fiber |
| 4        | Elastomer Sleeve   | EPDM            |

#### Ratings

|                       |                     |
|-----------------------|---------------------|
| Max. Working Pressuer | 232 PSI             |
| Test Pressure         | 348 PSI             |
| Burst Pressure @ 80 F | 850 PSI             |
| Vacum Rating          | 25.59"Hg (650 Torr) |
| Operating Temperature | -4 F to 194 F       |

### Part Number & Weight

| Size  | Part Number | Approx. Wt (Lbs) |
|-------|-------------|------------------|
| 2-1/2 | FNW40L      | 14.74            |
| 3     | FNW40M      | 16.50            |
| 4     | FNW40P      | 18.26            |
| 5     | FNW40S      | 23.98            |
| 6     | FNW40U      | 23.98            |
| 8     | FNW40x      | 42.24            |
| 10    | FNW4010     | 55.00            |

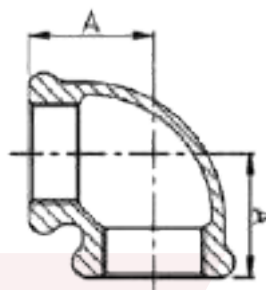


## Pressure Gauge

|                   | MODELS                                                                 | SPECIFICATIONS                                                                                    |
|-------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Case              | 15-910, 25-900, 25-910                                                 | ABS (Acryl Nitril Butadien Styrol)                                                                |
|                   | 25-901, 25-911, 40-901, 40-911                                         | 304 Stainless steel                                                                               |
| Bezel             | 25-901, 25-911, 40-901, 40-911                                         | 304 Stainless steel                                                                               |
| Lens              | 15-910, 25-900, 25-910                                                 | Acrylic; ultrasonically welded to the case                                                        |
|                   | 25-901, 25-911                                                         | Polycarbonate                                                                                     |
|                   | 40-901, 40-911                                                         | Instrument glass                                                                                  |
| Bourdon tube      | 15-910, 25-900, 25-910, 25-901, 25-911, 40-901, 40-911 (up to 600 psi) | Phosphor bronze C-Type Bourdon tube                                                               |
|                   | 15-910, 25-900, 25-910, 25-901, 25-911, 40-901, 40-911 (> 600 psi)     | Coiled safety tube                                                                                |
| Connection        | 15-910                                                                 | 1/8" NPT brass                                                                                    |
|                   | 25-900, 25-910, 25-901, 25-911                                         | 1/4" NPT brass or 7/16"-20 adjustable                                                             |
|                   | 40-901, 40-911                                                         | 1/4" NPT brass, 1/2" NPT brass or 7/16"-20 adjustable                                             |
| Movement          | 15-910, 25-900, 25-910, 25-901, 25-911,                                | Brass and nylon with highly polished bearing surfaces                                             |
| Safety protection | 15-910, 25-900, 25-910                                                 | Safety relief disc on the back of the case                                                        |
|                   | 25-901, 25-911, 40-901, 40-911                                         | Safety relief disc on the top of the case                                                         |
| Accuracy          | 15-910, 20-901, 20-911                                                 | ± 2.5% full scale ASME B40.1 Grade B                                                              |
|                   | 25-900, 25-910, 25-901, 25-911                                         | ± 1.5% full scale ASME B40.1 Grade A                                                              |
|                   | 40-901, 40-911                                                         | ± 1% full scale ASME B40.1 Grade 1A                                                               |
| Pointer           | 15-910, 25-900, 25-910, 25-901, 25-911                                 | Molded plastic                                                                                    |
|                   | 40-901, 40-911                                                         | Balanced aluminum, black finish                                                                   |
| Dial              | 15-910, 25-900, 25-910, 25-901, 25-911                                 | Molded plastic, white background with black psi scale and red kPa scale. UV resistant             |
|                   | 40-901, 40-911                                                         | Aluminum, white background, dual scale psi – kPa. black psi scale and Red kPa scale. UV resistant |
| Fill liquid       | 15-910, 25-900, 25-910, 25-901, 25-911, 40-901, 40-911                 | Glycerine and water                                                                               |

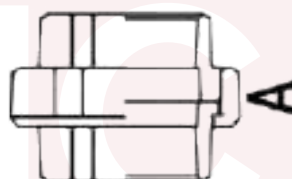


## Malleable Iron Elbow



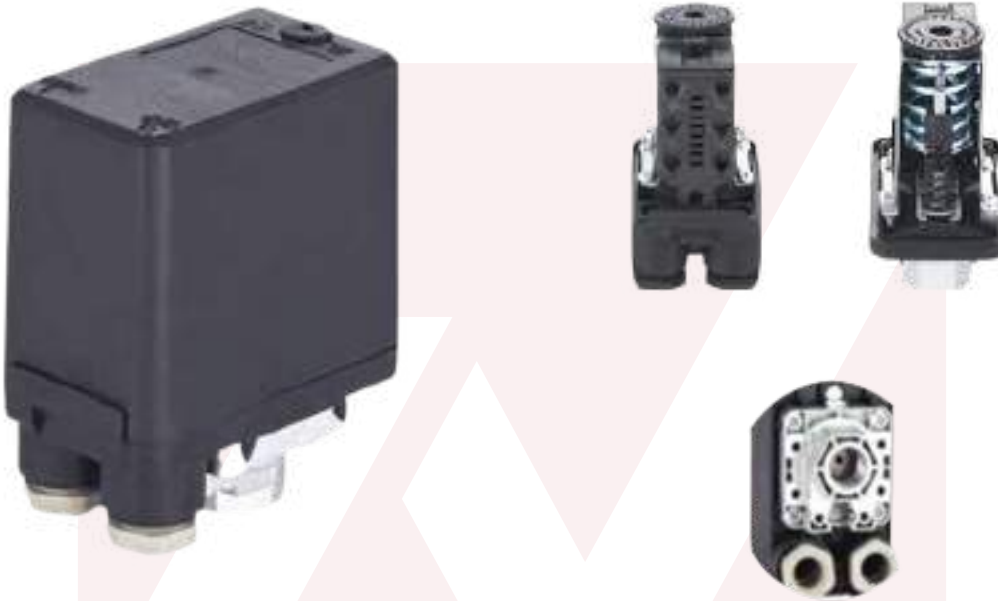
|           |      |       |     |       |     |     |     |       |
|-----------|------|-------|-----|-------|-----|-----|-----|-------|
| Size      | Inch | 1/8   | 1/4 | 3/8   | 1/2 | 3/4 | 1   | 1 1/4 |
|           | mm   | 6     | 8   | 10    | 15  | 20  | 25  | 32    |
| Dim. (mm) | A    | 19    | 21  | 25    | 28  | 33  | 38  | 45    |
| Size      | Inch | 1 1/2 | 2   | 2 1/2 | 3   | 4   | 5   | 6     |
|           | mm   | 40    | 50  | 65    | 80  | 100 | 125 | 150   |
| Dim. (mm) | A    | 50    | 58  | 69    | 78  | 96  | 115 | 131   |

## Malleable Iron Union



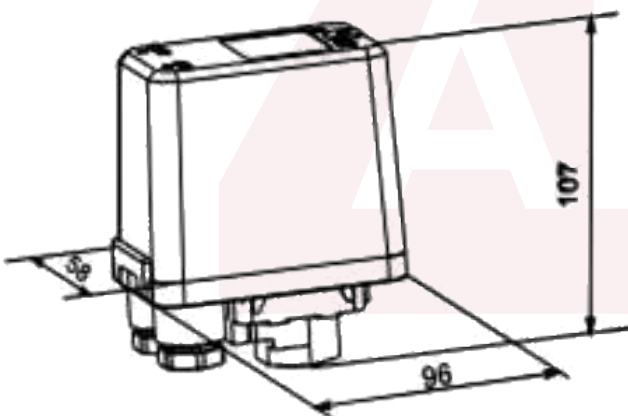
|           |      |       |     |       |     |     |     |       |
|-----------|------|-------|-----|-------|-----|-----|-----|-------|
| Size      | Inch | 1/8   | 1/4 | 3/8   | 1/2 | 3/4 | 1   | 1 1/4 |
|           | mm   | 6     | 8   | 10    | 15  | 20  | 25  | 32    |
| Dim. (mm) | A    | 38    | 42  | 45    | 48  | 52  | 58  | 65    |
| Size      | Inch | 1 1/2 | 2   | 2 1/2 | 3   | 4   | 6   |       |
|           | mm   | 40    | 50  | 65    | 80  | 100 | 150 |       |
| Dim. (mm) | A    | 70    | 78  | 85    | 95  | 100 | 144 |       |

## Pressure Switch



### Technical Data

|                         |                 |
|-------------------------|-----------------|
| Rated Voltage           | 110-240V/400V   |
| Rated Current           | 20(16)A         |
| Min.cut-in              | 1bar            |
| Max.cut-out             | 12bar           |
| Pressure Range          | 1-6bar,6-12 bar |
| Screw Size              | ¼" 3/8"         |
| Protection Rating       | IP44            |
| Max Working Temperature | 55°C            |





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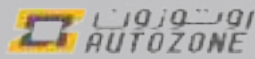
920025873



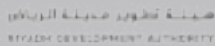
## Project List

| Project name                                                                              | Project Location            | Owner's name                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply and installation of firefighting and alarm system BLK 23                           | Riyadh - Al-Ha'ir Road      | <br>شركة الحرمين للتطوير والاستثمار العقاري<br>Haramain Development and Real Estate Investment Co. |
| Supply and installation of firefighting and alarm system BLK 42                           | Riyadh - North Industrial   | <br>شركة الحرمين للتطوير والاستثمار العقاري<br>Haramain Development and Real Estate Investment Co. |
| Supply and installation of fire extinguishing system and alarm system - Al Munakh BLK     | Riyadh - Al Manakh District |                                                                                                   |
| Supply and installation of firefighting and alarm system, Octal company factory           | Riyadh - Sulay Industrial   | <br>an Alpek Polyester Business                                                                  |
| Supply and installation of fire extinguishing and alarm system, Riyadh Insulation Factory | Riyadh - Second Industrial  | <br>ستايروتك<br>Styrotech                                                                        |
| Supply and installation of firefighting and alarm system. Kia Aljabr                      | Riyadh                      |                                                                                                  |
| Supply and installation of firefighting and alarm system. Car Workshop                    | Khamis Mushait              |                                                                                                  |
| Supply and installation of firefighting & alarm system in Factories & Branches            | Riyadh                      | <br>شركة باصم ديكور للتصميم<br>BAMAMEDOUY DECORATION CO.                                         |

## Project List

| Project name                                                                                         | Project Location                   | Owner's name                                                                          |
|------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| Installation of fire extinguishing system and alarm system Go Stations Company                       | Riyadh - Sudair<br>Dammam - Jeddah |    |
| Installation of fire extinguishing system and alarm system Stations of Gulf Company                  | Riyadh - Dammam                    |    |
| Installation of fire extinguishing system and alarm system in station of LITER                       | Riyadh                             |   |
| Installation of fire extinguishing system and alarm system Autozone Trade Shows                      | Riyadh                             |  |
| Supply & Installation of Firefighting system for Factories & Buildings                               | Riyadh- Sudair                     |  |
| Supply and installation of firefighting system for Ben Dayel market                                  | Riyadh - King Fahd Road            |  |
| Installation of firefighting and alarm system in the warehouses of Al-Ghanamiya district - BLK 170 - | Riyadh                             |  |
| Installation of firefighting & alarm system in the warehouses of Al-Ghanamiya district - BLK 185 -   | Riyadh                             |  |

## Project List

| Project name                                                                                      | Project Location                     | Owner's name                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply & Installation of firefighting & alarm system for The administrative building of the Green | Riyadh - King Fahd Road              |   |
| Supply & Installation of firefighting & alarm system for Al - Nahdi Market                        | Riyadh - Azizia                      |                                                                                      |
| Supply & Installation of firefighting & alarm system for Warehouses                               | Riyadh - Casablanca                  |                                                                                     |
| Supply & Installation of firefighting & alarm system                                              | Thadiq - Al-Sahla Kindergarten       |                                                                                    |
| Supply & Installation of firefighting & alarm system                                              | Riyadh - Sulay Industrial            |                                                                                    |
| Supply & Installation of firefighting & alarm system - Al Faisaliah BLK -                         | Riyadh<br>Al-Faisaliah - district -  |                                                                                    |
| Installation of fire extinguishing system and alarm system of Office building project             | Al-Rawdah<br>- District - Riyadh     |                                                                                    |
| Installation of fire extinguishing system and alarm system of Petrol station                      | Al-Ghanamiyah<br>- District - Riyadh |                                                                                    |

## Projects Activities





## Projects Activities





## Projects Activities



## Projects Activities





## Projects Activities





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## Projects Activities







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سعودية  
SAUDI  
MADE

# Certification & Accreditation

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# ANC Certifications

## Company Main CR

١٠١٠٢٥٩٩٩٢  
١٤٢٩/١٢/٢٩

الرقيم  
التاريخ

وزارة التجارة  
Ministry of Commerce

VISION  
2030  
الهيئة العامة للغذاء والدواء  
Saudi Food & Drug Authority

شركة عارف التهدي المحدودة

٧٠٠١٧٦٢٠٥٨

قسم الترخيص للشركات

ذات مسؤولية محدودة

٩٩ سنة

٢٣٣٢، العليا العام، العليا، ٩٣٣٠

٣٩٨٧

١٢٢١٤

١١٢١٣٨٦٥٤

٢٠٠٠٠٠ ريال سعودي

للاطلاع على بيانات الأنشطة الرجاء مسح الرمز التجاري

عارف سالم بن احمد التهدي

سالم عارف سالم التهدي

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حسب ما نص عليه عقد الشركة

الرياض

١٤٤٣/١١/١٥

١١٠٤٠٤٤٩٨

١٤٤٦/٠٦/١٠

عبد المحسن بن ابراهيم الحماد

عبد المحسن بن ابراهيم الحماد

يمكنك التحقق من صحة هذه الشهادة بالمحمول على: <http://v.mc.gov.sa>

# ANC Certifications

## Factory CR

|                                                                                                                                                               |                                                                       |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <br>وزارة التجارة<br>Ministry of Commerce                                    |                                                                       | <br>رؤية ٢٠٣٠<br>Vision 2030 |
| الرقم: ٦٠٦٠٥٧٦٥٤<br>التاريخ: ١٤٤٠/٠٨/١٧                                                                                                                       | شهادة اعتماد مصنع<br>Factory CR                                       |                                                                                                                 |
| رقم الموديل المعتمد: ٧٠٠٨٨٠٩٣٨١<br>نوعها: آلات تصنيع معدنية                                                                                                   |                                                                       |                                                                                                                 |
| موديلها الخاص: 2332 الرياض 9330-12214                                                                                                                         |                                                                       |                                                                                                                 |
| تاريخ: ٢٩٥٧<br>اليوم القمري: ١٢٢١٤<br>التاريخ: ١٤٤٠/٠٨/١٧                                                                                                     | رقم سجل المنتج: ٦٠٩٠٢٨١٩٩٦<br>اسم المنتج: مصنع عارف القهدي للصناعة    |                                                                                                                 |
| مكان: الرياض - حي المشايخ خريق شمراء                                                                                                                          |                                                                       |                                                                                                                 |
| صنف: آلات تصنيع معدنية<br>التصنيف: آلات تصنيع معدنية                                                                                                          |                                                                       |                                                                                                                 |
| اسم المصنع: عارف القهدي للصناعة<br>الاسم: عارف القهدي للصناعة                                                                                                 |                                                                       |                                                                                                                 |
| تاريخ الميلاد: ١٣٨٥<br>تاريخ الميلاد: ١٤٣٧/٠٨/١٧                                                                                                              | رقم التسجيل: ٦٠٩٩٨٤٤٩٤<br>ملاحظات المصنع: حسب ما يخص حديد حديد الشركة |                                                                                                                 |
| يشهد مكتب السجل التجاري بصحة: الرياض<br>وتنتهي صلاحية الشهادة من: ١٤٤١/٠٨/١٧                                                                                  |                                                                       |                                                                                                                 |
| توقيع: عبد المصطفى بن إبراهيم الحمد<br>التاريخ: ١٤٤٠/٠٨/١٧                                                                                                    |                                                                       |                                                                                                                 |
| To Verify the information of this certificate visit: <a href="http://mci.gov.sa">http://mci.gov.sa</a> على: <a href="http://mci.gov.sa">http://mci.gov.sa</a> |                                                                       |                                                                                                                 |





## ANC Certifications

## Company Head Quarter CR

[illegible]

# ANC Certifications

## Industrial license





### ترخيص منشأة صناعية

#### استثمار وطني



|                           |                   |                             |                            |
|---------------------------|-------------------|-----------------------------|----------------------------|
| رمز المنشأة<br>نوع القرار | ١٠٠٠١٧٣٢<br>تجديد | تاريخ الترخيص<br>رقم القرار | ١٤٤١-١٠-١٠<br>٤٥١١١٠١٢٨٤٣١ |
| تاريخ القرار              | ١٤٤٥-٠١-١٣        | تاريخ الانتهاء              | ١٤٥٠-٠٣-٠٩                 |

|                                |                                                        |                       |                                           |
|--------------------------------|--------------------------------------------------------|-----------------------|-------------------------------------------|
| اسم المنشأة الصناعية           | مصنع عارف النهدي للصناعة                               | هاتف                  | +٩٦٦٥٥٠١٩١٤٨١                             |
| السجل التجاري للمنشأة الصناعية | ١٠١٠٥٧٤٦٥٩                                             | الرقم الوطني الموحد   | ٧٠٠٨٨٠٩٣٨١                                |
| مالك المنشأة                   | شركة عارف النهدي المحدودة                              | موقع المنشأة الصناعية | (N24.632749220021104, E46.84180723564452) |
| رقم السجل التجاري الرئيسي      | ١٠١٠٢٥٩٩٩٢                                             | المنطقة               | منطقة الرياض                              |
| النشاط الرئيسي                 | صنع المضخات والضواغط والصنابير والصمامات الأخرى / ٢٨١٣ | المدينة               | الرياض                                    |

|               |            |                    |                                                                            |
|---------------|------------|--------------------|----------------------------------------------------------------------------|
| عدد العمالة   | ٦٢         | إثنان و ستون فرداً | تسعة ملايين و مائتين و سبعة و ثمانون ألفاً و أربع مائة و خمسة و عشرون ريال |
| حجم الاستثمار | ٩٢٨٧٤٢٥٠٠٠ |                    |                                                                            |

| رمز المنتج | وصف المنتج                                          | النشاط الصناعي                                                                              | الطاقة الإنتاجية | الوحدة |
|------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------|------------------|--------|
| ٨٤١٣٧٠٠٠   | مضخات مياه طارده مركزية ومحورية ومضخات اطفاء الحريق | ٢٨١٣٥٠ / صناعة المضخات المركبة على محركات الاحتراق الداخلي(مضخة الماء،الزيت،الوقود.... الخ) | ١٩٥٠٠٠           | وحدة   |

وزير الصناعة والثروة المعدنية

بندر بن إبراهيم الخريف





# ANC Certifications

## Trademark

|                                                                                                                                                                                                                                              |                          |                                                                                                                                                                         |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                                                                                                                                             |                          |   |                           |
| <b>شهادة تسجيل علامة تجارية</b>                                                                                                                                                                                                              |                          |                                                                                                                                                                         |                           |
| رقم التسجيل: 1442013372                                                                                                                                                                                                                      | العلامة: 7               | تاريخ التسجيل: 1442/07/15                                                                                                                                               | بداية السارية: 1442/04/26 |
| نوع العلامة: 27.5.1                                                                                                                                                                                                                          | نوع الأولوية: 1452/04/25 | نوع الأولوية: 1442/04/26                                                                                                                                                | نوع الأولوية: 1442/04/26  |
| وصف العلامة: حرج يكون الأحمر بداخلها حرف ان التكني بشكل موزن يكون الأبيض وسطه الحروف المائية له ان سي يكون الأبيض                                                                                                                            |                          |                                                                                                                                                                         |                           |
| اسم المالك: شركة عارف للنهاري المطبوعة                                                                                                                                                                                                       |                          |                                                                                                                                                                         |                           |
| العنوان: السعودية - الرياض - طريق 3987 - الرمز البريدي 12642                                                                                                                                                                                 |                          |                                                                                                                                                                         |                           |
| المنتجات أو الخدمات المندرجة بها: آلات وعدد لها، معرفات ومكان إعداد ما كان منها للمعرفات البرية) - فترات كية وعناصر نقل لمرقا (إعداد ما كان منها للمعرفات البرية) - معدات زراعة (إعداد ما يدار باليد)، أجهزة نقلين البيض، آلات بيع وتوزيعية. |                          |                                                                                                                                                                         |                           |
| هذه الوثيقة صادرة من النظام الآلي ولا تحتاج إلى توقيع<br>- الهيئة السعودية للملكية الفكرية -                                                                                                                                                 |                          |                                                                                                                                                                         |                           |



# ANC Certifications

## Activity license - Factory





**رخصة نشاط تجاري**  
**Commercial Activity Licence**  
**مصنع شركة عارف النهدي المحدودة**

|                                                                                         |                                        |                    |                      |
|-----------------------------------------------------------------------------------------|----------------------------------------|--------------------|----------------------|
| License Expiry Date                                                                     | الرقم المميز                           | License Number     | رقم الرخصة           |
| 1445/06/19                                                                              |                                        | 41073463972        |                      |
| Business Name                                                                           | اسم النشاط                             |                    |                      |
| مصنع عارف النهدي للصناعة                                                                |                                        |                    |                      |
| Business ID                                                                             | رقم وحدة النشاط                        |                    |                      |
| 7008809381 - 1010574659                                                                 |                                        |                    |                      |
| Business Classification                                                                 | المصنوع التجاري الرئيسي للنشاط التجاري |                    |                      |
| صناعة المضخات المركبة على محركات الاحتراق الداخلي مضخة الماء الزيت الوقود               |                                        |                    |                      |
| Business Activity                                                                       | النشاط التجاري                         |                    |                      |
| مصنع صناعة المضخات المركبة على محركات الاحتراق الداخلي مضخة الماء الزيت الوقود الخ      |                                        |                    |                      |
| Sub-Municipality                                                                        | الحي                                   | Municipality       | البلدية              |
| بلدية السلي                                                                             |                                        | أمانة منطقة الرياض |                      |
| Street                                                                                  | الشارع                                 | Exterior           | المنطقة              |
| البيدع القديم                                                                           |                                        | المشاعل            |                      |
| Design Sheet Area                                                                       | مساحة البناء المخططة                   | Sheet Total Area   | مساحة البناء الفعلية |
| 2 0 متر مربع                                                                            | 2 0 متر مربع                           | 2550 متر مربع      |                      |
|      |                                        |                    |                      |
| <p>للإطلاع على الأنشطة الإضافية وتفصيل الرخصة يرجى مسح رمز الاستجابة السريع QR Code</p> |                                        |                    |                      |
| Permit Expiry Date                                                                      | الرقم المميز                           | Permit Number      | رقم الترخيص          |
|                                                                                         |                                        |                    |                      |



199040




www.balady.gov.sa



## ANC Certifications

## Activity license - Riyadh Branch

## رخصة نشاط تجاري Commercial Activity Licence

### شركة عارف النهدي لمضخات الحريق ومستلزماتها

|                      |                      |                 |                    |
|----------------------|----------------------|-----------------|--------------------|
| Licence Expiry Date: | الرقم المميز للترخيص | Licence Number: | رقم الرخصة الموحدة |
|                      | 1445/05/29           |                 | 39121543008        |

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <b>Normal Classification:</b> | <b>اسم النشاط</b>                                    |
|                               | شركة عارف النهدي المحدودة                            |
| <b>Emergency No.:</b>         | <b>رقم خدمة الطوارئ</b>                              |
|                               | 7017433389 - 1010641573                              |
| <b>SIC Classification:</b>    | <b>المجموعة المهنية القياسية الدولية لنشاط العمل</b> |
|                               | أنشطة الخدمات الادارية المتكاملة للمكاتب             |
| <b>Detailed Activity:</b>     | <b>النشاط التفصيلي</b>                               |
|                               | مكتب تجاري                                           |

|                      |                    |
|----------------------|--------------------|
| Main Address/Agency: | العنوان            |
| بلدية الملز          | أمانة منطقة الرياض |
| Branch:              | فرع                |
| الظهران              | الملز              |

|                   |                                                                                     |                    |
|-------------------|-------------------------------------------------------------------------------------|--------------------|
| Street Sign Area: |  | Street Total Area: |
| 0 متر مربع إجمالي |                                                                                     | 132 متر مربع       |

للاطلاع على الأنشطة الإضافية وتفاصيل الرخصة يرجى مسح رمز الاستجابة السريع Code QR

|                     |                      |                |        |
|---------------------|----------------------|----------------|--------|
| Permit Expiry Date: | الرقم المميز للتصريح | Permit Number: | رقم QR |
|                     |                      |                |        |


رقم الهاتف
199040
Balady
social icons
www.balady.gov.sa





# ANC Certifications

## Activity license - Al-Qassim Branch



رخصة نشاط تجاري

Commercial Activity Licence

شركة عارف النهدي المحدودة

License Entry Date

تاريخ بداية الترخيص

License Number

رقم الترخيص

1444/08/18

43079302217

Company Name

اسم الشركة

7021642512 - 1131311937

اسم جهة الطلب

شركة عارف النهدي المحدودة

Business Description

البيع بالجملة لأجهزة ومعدات ومواد الوقاية والحماية من الحريق

البيع بالجملة لأجهزة ومعدات ومواد الوقاية والحماية من الحريق

Sub-Municipality

البلدية

Municipality

أمانة منطقة القصيم

بلدية الديرة الفرعية

Street

شارع

حي المرقب

شارع عام

Shop's Sign Area

مساحة لافتة المتجر

Shop's Total Area

مساحة المتجر الكلية

8

0

232

متر مربع

Code QR

للاطلاع على الأنشطة الإضافية وتفاصيل الرخصة يرجى مسح رمز الاستجابة السريع QR Code

Renewal Entry Date

تاريخ تجديد الترخيص

Renewal Number

رقم التجديد

Renewal

تجديد

940

940

940

940

940

940

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940

# ANC Certifications

## Activity license - Dammam Branch

**رخصة نشاط تجاري**  
**Commercial Activity Licence**  
**شركة عارف النهدي المحدودة**

License Expiry Date: 1445/05/19  
License Number: 43047920297

Company Name: شركة عارف النهدي المحدودة  
Company ID: 7016710001 - 2050132479

Business Description: البيع بالجملة لأجهزة ومعدات ومواد الوقاية والحماية من الحريق  
Business Activity: البيع بالجملة لأجهزة ومعدات ومواد الوقاية والحماية من الحريق

San Municipality: بلدية وسط الدمام  
Municipality: أمانة المنطقة الشرقية

Street: 15  
Location: الجبلية

Shop Sign Area: 16  
Shop Total Area: 126 متر مربع

Code QR: [QR Code]

For more information and additional details, please scan the QR code.

Personal Expiry Date: 1445/05/19  
Personal Number: [Blank]  
Phone: 199040  
Website: www.balady.gov.sa

# ANC Certifications

## Activity license - Khamis Mushait Branch

**رخصة نشاط تجاري**  
**Commercial Activity Licence**

**شركة عارف النهدي المحدودة**

License Expiry Date: 1444/03/22  
License Number: 42125971382

Company Name: شركة عارف النهدي المحدودة  
Company ID: 5855351463  
Activity: البيع بالجملة لأجهزة ومعدات ومواد الوقاية والحماية من الحريق  
Location: بلدية خميس مشيط

Area: 194 متر مربع

For more information, please contact the relevant authorities.

940

# ANC Certifications

## Activity license - Jazan Branch

**رخصة نشاط تجاري**  
**Commercial Activity Licence**

**شركة عارف النهدي المحدودة**

License Expiry Date: 14/05/2023  
License Number: 440110359306

Company Name: شركة عارف النهدي المحدودة  
Owner: 7008994721 - 5900134896  
Business Description: البيع بالجملة لأجهزة ومعدات ومواد لوقاية والصيانة من الحديد  
Business Description: البيع بالجملة لأجهزة ومعدات ومواد لوقاية والصيانة من الحديد

Sub-Municipality: أمانة منطقة جازان  
Municipality: أمانة منطقة جازان  
Sector: القطاع الخاص  
District: الزمام

Branch Type: فرع تجاري  
Total Area: 120 متر مربع

Phone Number: 199040  
Website: www.balady.gov.sa

# ANC Certifications

## Security License - Fire Alarm





### رخصة مزاوله نشاط

|                                             |                     |                           |                |                   |               |
|---------------------------------------------|---------------------|---------------------------|----------------|-------------------|---------------|
| رقم الرخصة: ١٩٠٢٢٠٢٢٣٩٧                     |                     | شركة عارف النهدى المحدودة |                | الإسم التجاري     |               |
| ٧٠٠١٧٦٢٠٥٨                                  |                     | الرقم الموحد للمنشآت (٧)  | ١٠١٠٢٥٩٩٩٢     | رقم السجل التجاري |               |
| الرياض                                      | منطقة مزاوله النشاط | ١٤٤٧-٠٤-٢٠                | تاريخ الإنتهاء | ١٤٤٤-٠٤-٢٠        | تاريخ الإصدار |
| تركيب وصيانة أجهزة ومعدات الإنذار من الحريق |                     |                           |                | النشاط المرخص     |               |
|                                             |                     |                           |                | الأجهزة والمعدات  |               |

تشهد إدارة التراخيص الأمنية المركزية بأن المنشأة الموضحة أعلاه قد استوفت كافة الإجراءات والإشترطات النظامية لمزاولة النشاط الموضح أعلاه وقد أصدرت لها هذه الرخصة كمنشأة مصرح لها لمزاولة النشاط المذكور.




عقيد مهملات - جمال بن زيد المتيري



<https://hcis.gov.sa> \* للتحقق من صلاحية الرخصة الرجاء الدخول على منصة الهيئة العليا للأمن الصناعي

\* يتطلب وجود النشاط في السجل التجاري المذكور أعلاه، على أن يكون السجل التجاري ساري المفعول



# ANC Certifications

## Security License - Fire Fighting





### رخصة مزاولة نشاط

رقم الرخصة: ١٩٠٢١٠٢٢٣٨٦

|                                   |                          |                  |                   |
|-----------------------------------|--------------------------|------------------|-------------------|
| شركة عارف النهدية المحدودة        |                          | الإسم التجاري    |                   |
| ٧٠٠ ١٧٦٢٠ ٥٨                      | الرقم الموحد للمنشآت (٧) | ١٠١٠٢٥٩٩٩٢       | رقم السجل التجاري |
| ١٤٤٧-٠٤-٠٩                        | تاريخ الإنتهاء           | ١٤٤٤-٠٤-٠٩       | تاريخ الإصدار     |
| الرياض                            | منطقة مزاولة النشاط      | النشاط المرخص    |                   |
| تركيب وصيانة أجهزة ومعدات الإطفاء |                          | الأجهزة والمعدات |                   |

تشهد إدارة التراخيص الأمنية المركزية بأن المنشأة الموضحة أعلاه قد أستوفت كافة الإجراءات والإشترطات النظامية لمزاولة النشاط الموضح أعلاه وقد أصدرت لها هذه الرخصة كمنشأة مصرح لها لمزاولة النشاط المذكور.




عقيد مهلاسي - ممثل عن إيد المتابعين

<https://hcis.gov.sa>

\* للتحقق من صلاحية الرخصة الرجاء الدخول على منصة الهيئة العليا للأمن الصناعي

\* يتطلب وجود النشاط في السجل التجاري المذكور أعلاه ، على أن يكون السجل التجاري ساري المفعول



# ANC Certifications

## Contractor Classification



الدرجة الثانية

### شهادة

#### تصنيف مقدمي خدمات المدن

منع وزارة الشؤون البلدية والقروية والإسكان شهادة تصنيف بالدرجة






شركة عارف النهدي المحدودة

| رقم الشهادة | تاريخ إصدار الشهادة | اسم مقدم الشهادة | نوع الخدمة | صحة الشهادة | رقم الطلب |
|-------------|---------------------|------------------|------------|-------------|-----------|
| 1010259992  | 27/12/2008          | عارف سالم النهدي |            |             | 3015195   |

| رقم الشهادة | تاريخ الإصدار | حجم الخدمة | درجة تقييم الامتثال | درجة تقييم الفني |
|-------------|---------------|------------|---------------------|------------------|
| 2023004774  | 28/05/2023    |            | BBB                 | 83.425           |

**الأنشطة:**

تركيب وصيانة أجهزة ومعدات الإنذار من الحريق وتركيب وصيانة صافرات الإنذار الميكرو ومراكز التحكم بها وتركيب وصيانة أجهزة ومعدات الإطفاء

**النظام:**

التشبيك والبناء

وقيل الوزارة للشؤون البلدية والقروية والإسكان

28/05/2024

يتمنى طاقم هذه الشهادة كل التوفيق والنجاح في أعماله

تصدر هذه الشهادة إلكترونياً وتحت إشراف اللجنة المختصة من خلال موقع الوزارة





# ANC Certifications

## Chamber of Commerce

| شهادة اشتراك<br>Membership Certificate |            | <br>Riyadh Chamber |                                      |
|----------------------------------------|------------|-------------------------------------------------------------------------------------------------------|--------------------------------------|
| Membership No. :                       | 289991     | 289991                                                                                                | رقم العضوية الموحدة :                |
| Date of Issue:                         | 29/09/2012 | 2012/09/29                                                                                            | تاريخ الاصدار:                       |
| Membership Class :                     | Second     | الثانية                                                                                               | درجة العضوية :                       |
| Riyadh Chamber Certifies               |            | تشهد الغرفة التجارية الصناعية بالرياض بأن                                                             |                                      |
|                                        |            | شركة عارف الهدي المحدودة                                                                              |                                      |
| Commercial Registration No             | 1010259982 | 1010259982                                                                                            | مفردة بالسجل التجاري / الترخيص رقم : |
| Certificate Expires on                 | 11/12/2024 | 2024/12/11                                                                                            | ينتهي سريان هذه الشهادة فيم          |

الخدمات  
الإلكترونية  
e-SERVICES

الخدمات الإلكترونية لعضوية الغرف - بوابة المعلنين - بوابة المعلنين

920004545

- يُرجى التحقق من الوثيقة عبر الرابط <https://mybusiness.chamber.sa> أو تطبيق (سند)
- للأجهزة المحمولة أو الرقم الموحدة دون أدنى مسؤولية على الغرفة عن محتوى الوثيقة
- تعد هذه الورقة من الوثائق الإلكترونية لغرفة الرياض، ويمنع تعديلها أو محاولة العبث بها وتصبح لاغية حال محاولة تعديلها وتمييز صاحبها للملاحقة القانونية.



# ANC Certifications

GOSI

التاريخ ١٤٤٥/٠٦/١٣  
الموافق ٢٦/١٢/٢٠٢٣  
رمز الشهادة ٥٩٧٦٨٨٤



## شهادة

إسم المنشأة : شركة عارف التهدي المحدودة  
ص.ب : ٢٥٥٠٠ الرياض ١١٣٥٣  
السعودية  
رقم الإشتراك : ٥٠٦٢٨٦٣٥٢  
رقم السجل التجاري: ١٠١٠٢٥٩٩٩٢

مصدره :

| رقما | كتابة               | عدد المشتركين السعوديين     |
|------|---------------------|-----------------------------|
| ١١   | أحد عشره مشتركا     | عدد المشتركين غير السعوديين |
| ٥١   | واحد و خمسون مشتركا | المجموع                     |
| ٦٢   | اثنان و ستون مشتركا |                             |

تشهد المؤسسة العامة للتأمينات الإجتماعية بأن المنشأة المذكورة أعلاه قد أوفت بالتزاماتها تجاه المؤسسة وفق البيانات المقدمة منها حتى تاريخ إصدار هذه الشهادة ، والتي تم منحها لتقديمها لأية جهة تطلبها ، وهي صالحة لجميع الأغراض التي نص عليها نظام التأمينات الإجتماعية في المادة (١٩/٦) منه.

هذه الشهادة سارية المفعول حتى ١٤٤٥/٠٧/١٢ هـ.

يلزم التحقق من صحة وصلاحيّة الشهادة عبر زيارة الرابط أدناه في الموقع الإلكتروني للمؤسسة العامة للتأمينات الإجتماعية



أو عن طريق استخدام الرمز المعرف التالي :

[www.gosi.gov.sa/vc](http://www.gosi.gov.sa/vc)

( الشهادة معتمدة من صاحب الصلاحيّة ولا تحتاج إلى توقيع أو ختم )



تعد هذه الشهادة من الوثائق الإلكترونية الحكومية الرسمية ، ويحظر قطعاً تقليدها أو إدخال أي تعديلات عليها سواء بالإضافة أو الحذف أو التغيير في بياناتها أو غير ذلك من أنواع التعديل ، وتعد الشهادة لائحة إذا شابهها شيء من ذلك ، كما تعرض صاحبها للملاحقة النظامية أمام الجهات المختصة بالإضافة إلى ما يفرضه نظام التأمينات الإجتماعية من عقوبات ، وإيجوز تداول الشهادة إلا في الأغراض التي أصدرت لأجلها وفقاً لأحكام نظام التأمينات الإجتماعية ، والمؤسسة العامة للتأمينات الإجتماعية غير مسؤولة عن أي آثار أخرى مترتبة قبل الغير عن الشهادة وغير مسؤولة عن أي عملية تزوير أو تعديل تتم على البيانات الواردة فيها .



# ANC Certifications

## Zakat



1020554311

TIN: ٣٠٠٧٨١٧٦٦ رقم الضريبة

Entity No./ID No: ١٠٢٠٥٩٩٩٢ رقم الهوية

Issue Date: ١٤٤٥/٠٦/٠٥ تاريخ الصادرة



هيئة الزكاة والضريبة والجمارك  
Zakat, Tax and Customs Authority

المملكة العربية السعودية  
Kingdom of Saudi Arabia

### شهادة Certificate

The Zakat, Tax and Customs Authority certifies that the Taxpayer

تشهد هيئة الزكاة والضريبة والجمارك أن المكلف /

شركة عارف النهدي المحدودة

Entity Unified No./ID No. ٧٠٠١٧٦٢٠٥٨ الرقم الموحد للمنشأة / رقم هوية

Commercial Registration/License/ Contract No ١٠١٠٢٥٩٩٩٢ سجل تجاري / رخصة / عقد رقم

Has submitted his tax return for the period ending on 31/12/2022 AD, and he was granted the certificate to complete all his transactions including the payment of the final amount due on the contract.

قدّم إقراره عن الفترة المنتهية في ١٤٤٤/٠٦/٠٧ هـ، وقد منح هذه الشهادة لإنهاء جميع معاملاته بما في ذلك صرف مستحقاته النهائية عن العقود.

The Certificate is valid until 21/10/1445 AH corresponding to 30/04/2024 AD

يسري مفعول هذه الشهادة حتى تاريخ ١٤٤٥/١٠/٢١ هـ الموافق ٢٠٢٤/٠٤/٣٠ م

( The Twenty first of Shawwal one thousand four hundred forty-five Hijri ) ( الحادي والعشرون من شوال ألف وأربعمائة وخمسة وأربعون هجري )

لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة الإلكتروني: [www.zatca.gov.sa](http://www.zatca.gov.sa)

This certificate is not valid until verified by the Authority's Website: [www.zatca.gov.sa](http://www.zatca.gov.sa)

٢٥٩٩٩٢ ٧٠٠١٧٦٢٠٥٨ zatca.gov.sa





# ANC Certifications

## VAT

100181000294835

تاريخ الترخيص: ١٤٣٩/٠٥/٢٧ هـ  
الرقم المميز: ٣٠٠٧٨١٧٣٦

الهيئة العامة للزكاة والدخل  
GENERAL AUTHORITY OF ZAKAT & TAX

شهادة  
CERTIFICATE

شهادة تسجيل في ضريبة القيمة المضافة  
VAT registration certificate

تشهد الهيئة العامة للزكاة والدخل بأن المكلف: شركة عارف النهدي المحدودة  
مسجل في ضريبة القيمة المضافة بتاريخ: ١٤٣٨/١٢/٠٢ هـ، وتحمل الرقم الضريبي: ٣٠٠٧٨١٧٣٦٠٠٠٣

عنوان المركز الرئيسي:  
المدينة: الرياض الحي: المنزل  
صندوق البريد: ١٣٨٤١ الرمز البريدي:  
الهاتف: ٠٠٩٦٦٥٩٢٥٥٢٣٢

الهيئة العامة للزكاة والدخل

هذه الوثيقة مرسلة من النظام الآلي ولا تحتاج إلى توقيع

1 of 1 Page



# ANC Certifications

## National Address

Proof Number: 0021578133 رقم الإثبات

Original Date: 01/1/2023 تاريخ الإصدار

Expiration Date: 31/12/2025 تاريخ الانتهاء



العنوان الوطني  
NATIONAL ADDRESS

إثبات عنوان  
Address Proof

**Address Holder Details**

Name:  شركة غارن القوي المصنوعة

Customer No:  7 2 7 4 5 3 7 9 1 رقم العميل

Reg. Date:  23/12/2021 تاريخ التسجيل

**بيانات صاحب العنوان**

---

**Address Details**

Main Address:  B H O C S D V S العنوان الرئيسي

Building No:  1 8 8 8 Street:  M Claye رقم المبنى الشارع

Secondary No:  1 8 8 8 District:  M Claye Dist. الرقم الفرعي الحي

Post Code:  1 2 2 1 4 الرمز البريدي

City:  BAYDAH المدينة

Kingdom of Saudi Arabia المملكة العربية السعودية

**تفاصيل العنوان**



To Verify للتحقق

<https://verify.anc.com.sa/verify/address/0021578133>

أولاً، هذا الإثبات إلكتروني ولا يتطلب التوقيع  
 تم إصدار هذا الإثبات بناءً على طلب العميل، لذلك يجب التحقق من صحة البيانات المدخلة في الإثبات. يرجى التأكد من صحة البيانات المدخلة في الإثبات.  
 هذه وثيقة إلكترونية ولا تتطلب التوقيع.

This proof has been issued electronically and does not require a signature.  
 The proof has been issued electronically and does not require a signature. It is subject to verification by the customer. Please ensure the data entered in the proof is correct.  
 This proof has been issued electronically and does not require a signature. It is subject to verification by the customer. Please ensure the data entered in the proof is correct.

19912 <https://verify.anc.com.sa/verify/address/0021578133>

# Saudi Contractors Authority



# ANC Certifications

## Monsha'at



رقم الشهادة: 2239259174  
صلاحية الشهادة: سنة من تاريخ الإصدار \*

تاريخ الإصدار: 07-11-2022  
الرقم الوطني: 7001762058

اسم المنشأة: شركة عارف النهدي المحدودة  
السجل التجاري: 1010259992



تشهد الهيئة العامة للمنشآت الصغيرة والمتوسطة "منشآت" بأن المنشأة المذكورة أعلاه تدرج من ضمن المنشآت الصغيرة والمتوسطة وفقاً للتعريف المعتمد لدى "منشآت"

يتم التحقق من الشهادة من خلال موقع منشآت

<https://profile.monshaat.gov.sa/validate>

تعد هذه الشهادة من الوثائق الحكومية الرسمية، ولا يجوز تداولها أو استعمالها إلا في حدود الأغراض التي أصدرت لأجلها، ويحظر قطعياً تقليدها أو إدخال أي تعديلات عليها سواء بالإضافة أو الحذف أو التغيير في بياناتها أو غير ذلك من أنواع التعديل، وتعد هذه الشهادة لاغية إذا شابها شيء من ذلك، كما تعرض من ارتكب أي مما سبق إلى الملاحقة النظامية أمام الجهات المختصة دون الإخلال بما تنص عليه الأنظمة ذات العلاقة.

\* يجب التحقق من خلال رابط موقع منشآت عن صلاحية الشهادة حيث أنه يتم التحديث بشكل دوري



## Civil of Defense Approval



# ANC Accreditation

## SASO Approval

License Version No. 1 رقم نسخة الترخيص

شهادة ترخيص باستعمال علامة الجودة  
License to use the Quality Mark

الهيئة السعودية للمواصفات والمقاييس والجودة  
Saudi Standards

License No. QM2312000069 رقم الترخيص

SASO affirms that this facility has fulfilled the highest product conformity requirements and has been granted the license to use the Saudi quality mark on the products listed in this certificate.

تشهد الهيئة السعودية للمواصفات والمقاييس والجودة بأن هذه المنشأة قد حققت أعلى معايير المطابقة للمنتجات وعليه تم ترخيصها باستعمال شعار علامة الجودة السعودية على المنتجات المذكورة في هذه الشهادة.

|                         |                           |                         |
|-------------------------|---------------------------|-------------------------|
| The Facility            | شركة عارف الفهدي المحدودة | المنشأة                 |
| Facility Address        | الملي - صناعية حي المشاعل | موقع المنشأة            |
| Production Line address | الملي - صناعية حي المشاعل | موقع خط الإنتاج         |
| Products in the license | 1                         | عدد المنتجات في الترخيص |
| License Issue Date      | 05/12/2023                | تاريخ إصدار الترخيص     |
| License Renewal Date    | -                         | تاريخ تجديد الترخيص     |
| License Expiry Date     | 05/12/2026                | تاريخ انتهاء الترخيص    |

للتأكد من صحة هذه الشهادة يرجى زيارة موقعنا على الإنترنت، وأي كسب أو تغيير في هذه الشهادة يلغها.

To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.

المملكة العربية السعودية  
Kingdom of Saudi Arabia

11471 الرياض  
P.O.Box 3437

ص.ب 3437  
Riyadh 11471

T 920009085  
F +966114520086

www.saso.gov.sa  
info@saso.gov.sa

1/2



# ANC Accreditation

## Local Content Certification

التاريخ: 2023/12/10  
رقم الشهادة: M-0007644



هيئة المحتوى المحلي  
والمدادات الحكومية  
Local Content & Government  
Procurement Authority



### شهادة المحتوى المحلي

### Local content certification



The Local Content & Government Procurement Authority certifies that the Local Content Score for ARIF ALNAHDI COMPANY LTD. Commercial Register No. (1010259992) for the year ended 31/12/2022, is 14.82%.

The validity of this certificate is 18 months from the above mentioned year ended.

**Notes:**  
This certificate was issued according to the procedures followed by the Authority and based on the documents submitted by the entity and the report issued by the approved audit firm, approved holding (LCGA) is financially responsible.  
This certificate is sent via electronic mail (automated system) and it does not require a signature.

You can validate the information in this certificate via the following link: [URL](#), or by scanning the above QR code.

تتضمن هذه الشهادة المحتوى المحلي والمستلزمات الحكومية.  
أن نسبة المحتوى المحلي لشركة عارف الناهدي المحدودة سجل تجاري رقم (1010259992) للسنة المالية المنتهية بتاريخ 31/12/2022 م، بلغ 14.82%.

صلاحيته هذه الشهادة 18 شهراً من نهاية السنة المالية المذكورة أعلاه.

**ملاحظات:**  
تم إصدار هذه الشهادة وفقاً للعمليات المتبعة لدى الهيئة بناءً على الوثائق المقدمة من الشركة وبتقرير المدقق المعتمد (LCGA) المسجل لدى الهيئة المالية المسؤولة.  
هذه الشهادة ترسل عبر البريد الإلكتروني (نظام آلي) ولا تحتاج إلى توقيع.

يمكن التحقق من صحة بيانات الشهادة من خلال الرابط الإلكتروني [URL](#) أو من خلال مسح الرمز المربع أعلاه.



# ANC Accreditation

## Saudi Made Membership

VISION رؤية  
2030  
Saudi Vision 2030  
رؤية رؤية 2030

صناعة  
سعودية

### تأكيد العضوية في برنامج صنع في السعودية

السادة / شركة عارف النهدي المحدودة  
السلام عليكم ورحمة الله وبركاته، وبعد،

نرحب بكم أعضاء في برنامج "صنع في السعودية" ويسعدنا انضمامكم للبرنامج ومساهمكم في تحقيق أهدافه الرامية إلى تعزيز الثقة بالمنتج الوطني وتفعيل دوره في تنمية الناتج المحلي السعودي غير النفطي، مما يساهم في جعل المملكة قوة صناعية رائدة وفقاً لأهداف رؤية السعودية 2030.

يعد هذا الخطاب بمثابة تأكيد على أن شركتكم المؤهلة والمنتجات المسجلة والموافق عليها تستوفي المعايير المطلوبة للانضمام لبرنامج صنع في السعودية، على أن يمثل جميع الأعضاء امتثالاً كاملاً لقواعد البرنامج طوال فترة صلاحية العضوية، واعتباراً من تاريخ هذا الخطاب، يحق لشركتكم استخدام علامة "صناعة سعودية" على المنتجات المسجلة والمعتمدة، والاستفادة من مزايا العضوية.

وبناءً عليه، نأمل منكم تعريف جميع الموظفين المعنيين بتطبيق العلامة الصناعية بقواعد البرنامج وإرشادات استخدامها على المنتجات والمواد الترويجية الخاصة بالشركة.

مدير عام إدارة منتج في السعودية

أ. شيمس بن أحمد المفلوح

3



# ANC Accreditation

## Pump Electrical Controller FM Approval


*Member of the FM Global Group*

### Certificate of Compliance

This certificate is issued for the following:

**CONTROLLERS FOR LOW VOLTAGE ELECTRIC MOTOR DRIVEN FIRE PUMPS  
MODEL: GPx and GPxFM SERIES**

**Proposed by:**  
TernaTech Inc.  
7875 St. Robert Avenue, #112  
St. Laurent, QC H4M 2Z2  
Canada

**Manufactured at:**

TernaTech Inc.  
7875 St. Robert Avenue, #112  
St. Laurent, QC H4M 2Z2  
Canada

TernaTech Europe SPRL  
Avenue de la 3  
1300 Wavre  
Belgium

FM Approvals Class: 1121/1123

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Approval Identification: 0003002642 | Approval Granted: July 1, 2010     |
| Approval Identification: 0003040606 | Approval Granted: November 5, 2010 |
| Approval Identification: 0003041613 | Approval Granted: May 17, 2011     |
| Approval Identification: 0003042349 | Approval Granted: November 4, 2011 |
| Approval Identification: 0003047451 | Approval Granted: January 15, 2013 |

*Supersedes original Certificate of Compliance*

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

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



Richard B. Dunne  
Group Manager – Fire Protection  
FM Approvals  
1150 Boston-Providence Turnpike  
Norwood, MA 02062

June 13, 2013  
Date

FM Approvals 1-800-541-7878  
SRT12



# ANC Accreditation

## ANC Pump Motabaqah Approval



ELECTRICAL PRODUCTS TESTING  
LABORATORY – RIYADH



### TEST REPORT

Report #: SR-439059

Report Dates: Oct. 31, 2023

|                         |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| Customer                | Art Alnadih Co.LTD                                                 |
| Location                | Industrial Gate City, Plot #196, Block #12, Riyadh, Saudi Arabia   |
| Customer Statement Info | WCO00002-14751                                                     |
| Product                 | FIRE PUMPS                                                         |
| Brand                   | ANC Fire Pump                                                      |
| Model No                | Electric + Jockey + Diesel (See page 54)                           |
| Technical Specification | 220V, 3Ph, 50Hz, 250 GPM Main Pump, 30GPM Jockey, 7 Bar Pressure.  |
| Country of Mfr.         | Saudi Arabia                                                       |
| Request Date            | October 10, 2023                                                   |
| Start date              | October 10, 2023                                                   |
| Test End Date           | October 25, 2023                                                   |
| Test Method             | MOCI Directive 267<br>IEC 60034-1<br>SASO GSO IEC 60529<br>NFPA 20 |

### Test Results

Result: **CONFORM**

Remarks: (NFPA 20) Standard for the Installation of Stationary Pumps for Fire Protection (2019 Edition)

- We witnessed Hydrostatic Tests in the factory for pump model Electric + Jockey + Diesel

### Authorized Signatories:

Moharak Aliuwaymi  
Technical Manager



- Information with "C" denotes Customer provided information.
- Results are found on the succeeding pages.
- Test(s) with "C" denotes non-accredited test(s). Test(s) with "C" denotes subcontracted test(s).
- Results relate to sample as received and only to the item(s) tested on specified Standard Test Method(s) and specific issue(s).
- Tests are performed on standard rated voltages and frequency in Saudi Arabia.
- Test Report shall not be reproduced, except in full, without written approval of EPTLR, Motabaqah.
- The laboratory utilizes decision rule on MSF/7 & IEC 01 procedure for tests wherein statement of conformity are stated.
- Unless requested for return, Test Item(s) are destroyed and discarded 90 days after Test Report Date.
- Test conducted may form into unstable and dangerous item(s). Motabaqah, EPTLR do not assume liability resulting from the use of the returned item(s).
- B: This test report is an amendment to report No. (112604) issued on (Aug 28, 2022).





# ANC Accreditation

## UL Listed - End Suction Pump

UL Product iQ™



### QWZU.EX28373 - Centrifugal Fire Pumps, End Suction

#### Centrifugal Fire Pumps, End Suction

See General Information for Centrifugal Fire Pumps, End Suction

**FIREGUARD GLOBAL LTD**

EX28373

3 CHURCH ST  
KIDDERMINSTER  
WORCESTERSHIRE, DY10 2AD UNITED KINGDOM

| Rated Capacity<br>GPM | Size<br>In. | Model<br>Dsg | Rated Net<br>Pressure<br>Range<br>psi | Approx<br>Speed<br>RPM | Max<br>Working<br>Pressure<br>psi |
|-----------------------|-------------|--------------|---------------------------------------|------------------------|-----------------------------------|
| 200                   | 2-1/2x2     | FGEF 50/26   | 105-140                               | 2980                   | 232                               |
| 200                   | 2-1/2x2     | ANCEF 50/26  | 105-140                               | 2980                   | 232                               |
| 250                   | 2-1/2x2     | FGEF 50/26   | 99-136                                | 2980                   | 232                               |
| 250                   | 2-1/2x2     | ANCEF 50/26  | 99-136                                | 2980                   | 232                               |
| 250                   | 3x2-1/2     | FGEF 65/26   | 119-147                               | 2980                   | 239                               |
| 250                   | 3x2-1/2     | ANCEF 65/26  | 119-147                               | 2980                   | 239                               |
| 300                   | 3x2-1/2     | FGEF 65/26   | 119-147                               | 2980                   | 239                               |
| 300                   | 3x2-1/2     | ANCEF 65/26  | 119-147                               | 2980                   | 239                               |
| 400                   | 3x2-1/2     | FGEF 65/26   | 119-141                               | 2980                   | 239                               |
| 400                   | 3x2-1/2     | ANCEF 65/26  | 119-141                               | 2980                   | 239                               |
| 450                   | 3x2-1/2     | FGEF 65/26   | 114-138                               | 2980                   | 239                               |
| 450                   | 3x2-1/2     | ANCEF 65/26  | 114-138                               | 2980                   | 239                               |
| 500                   | 3x2-1/2     | FGEF 65/26   | 111-135                               | 2980                   | 239                               |
| 500                   | 3x2-1/2     | ANCEF 65/26  | 111-135                               | 2980                   | 239                               |
| 500                   | 4x3         | FGEF 80/26   | 116-138                               | 2980                   | 232                               |
| 500                   | 4x3         | ANCEF 80/26  | 116-138                               | 2980                   | 232                               |
| 750                   | 4x3         | FGEF 80/26   | 105-132                               | 2980                   | 232                               |
| 750                   | 4x3         | ANCEF 80/26  | 105-132                               | 2980                   | 232                               |

<https://iq.ulprospector.com/en/profile?e=616890>

Note : All Remaining Approved Models are Available upon Request



# ANC Accreditation

## UL Listed - Split Case Pump

QXJY EX28343 - Centrifugal Fire Pumps, Split Case

UL Product iQ™

QXJY EX28343 - Centrifugal Fire Pumps, Split Case

See General Information for Centrifugal Fire Pumps, Split Case

FIREGUARD GLOBAL LTD  
3 CHURCH ST  
KIDDERMINSTER  
WORCESTERSHIRE, DY10 3AD UNITED KINGDOM  
Fire pumps, single stage

EX28343

| Rated Capacity<br>(gpm) | Size (in.) | Model Desc     | Rated Net<br>Pressure Range<br>(psi) | Approx Speed<br>(rpm) | Max Working<br>Pressure<br>(psi) |
|-------------------------|------------|----------------|--------------------------------------|-----------------------|----------------------------------|
| 2000                    | 10x8       | SCF250-200-350 | 123-229                              | 2980                  | 362                              |
| 2500                    | 10x8       | SCF250-200-350 | 114-227                              | 2980                  | 362                              |

Fire pumps, single stage

| Rated Capacity<br>(gpm) | Size (in.) | Model Desc | Rated Net<br>Pressure Range<br>(psi) | Approx Speed<br>(rpm) | Max Working<br>Pressure<br>(psi) |
|-------------------------|------------|------------|--------------------------------------|-----------------------|----------------------------------|
| 300                     | 6x3        | ASFS-300E  | 85-136                               | 2950                  | 280                              |
| 300                     | 6x3        | ASFS-300E  | 120-188                              | 3550                  | 280                              |
| 400                     | 6x3        | ASFS-300E  | 82-135                               | 2950                  | 280                              |
| 400                     | 6x3        | ASFS-300E  | 120-188                              | 3550                  | 280                              |
| 450                     | 6x3        | ASFS-300E  | 85-134                               | 2950                  | 280                              |
| 450                     | 6x3        | ASFS-300E  | 119-189                              | 3550                  | 280                              |
| 600                     | 6x3        | ASFS-300E  | 75-133                               | 2950                  | 280                              |
| 600                     | 6x3        | ASFS-300E  | 118-195                              | 3550                  | 280                              |
| 750                     | 6x3        | ASFS-300E  | 100-130                              | 2950                  | 280                              |
| 750                     | 6x3        | ASFS-300E  | 105-185                              | 3550                  | 280                              |
| 750                     | 6x3        | ASFS-600E  | 272-367                              | 2900                  | 400                              |

UL file #1944444 report #1944444.pdf file #1944444

Page 1 of 22

Note : All Remaining Approved Models are Available upon Request



# ANC Accreditation

## Electrical Motors UL Approval



ARIF  
AL-NAHDI  
CO.LTD.



04/1/2020

QXZF-EX5190 - Fire Pump Motors (UL Product IQ)

UL Product IQ™

QXZF.EX5190 - Fire Pump Motors

Fire Pump Motors

Item General Information for Fire Pump Motors

REGAL BELGIT AMERICA, INC.  
11041 9th Court NE  
Northridge, CA 91329 USA

04/1/2020

| Model No.                                                      | Output | HyDC Value | FL  | Service Factor | Number of Poles | Speed | RPM  | Ins. Class | Prot. Available | Rated Temp. (°C) |
|----------------------------------------------------------------|--------|------------|-----|----------------|-----------------|-------|------|------------|-----------------|------------------|
| (Inches are provided; rounded to two complete product details) |        |            |     |                |                 |       |      |            |                 |                  |
| 243VTEC6800                                                    | 5hp    | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 5hp    | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 7.5hp  | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 7.5hp  | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 10hp   | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 10hp   | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 5hp    | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 5hp    | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 7.5hp  | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 7.5hp  | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 10hp   | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 10hp   | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 5hp    | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 5hp    | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 7.5hp  | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 7.5hp  | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 10hp   | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 10hp   | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 5hp    | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 5hp    | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 7.5hp  | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 7.5hp  | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |
| 233VTEC6800                                                    | 10hp   | 80         | 210 | 1.75           | 2               | 3450  | 3450 | 1          | F               | 50               |
|                                                                | 10hp   | 80         | 448 | 5.4            | 1.75            | 2     | 3450 | 1          | F               | 50               |

File: P:\P\6800DC\_conversion\p\6800

page 28



WWW.ANC.CO



# ANC Accreditation

## Controller for Deisel Engines FM Approval



### Certificate of Compliance

This certificate is issued for the following:

**CONTROLLERS FOR DIESEL ENGINE DRIVEN FIRE PUMPS  
MODEL GPD and GPDFM SERIES**

**Prepared for:**  
FormTech Inc.  
3075 Pl Robert-Joncas, #112  
St Laurent, QC H4M 2Z2  
Canada

**Manufactured at:**

FormTech Inc.  
3075 Pl Robert-Joncas, #112  
St Laurent, QC H4M 2Z2  
Canada

FormTech Europe SPRL  
Avenue Sabin 3  
1300 Wavre  
Belgium

FM Approvals Class: E321/1323

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Approval Identification: 0003632642 | Approval Granted: July 1, 2010     |
| Approval Identification: 0003640666 | Approval Granted: November 2, 2010 |
| Approval Identification: 0003641612 | Approval Granted: May 17, 2011     |
| Approval Identification: 0003642367 | Approval Granted: November 4, 2011 |
| Approval Identification: 0003647451 | Approval Granted: January 15, 2013 |

*Supersedes original Certificates of Compliance.*

Field Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the conditions as shown in the Approval Guide, as well as renewal of FM Approvals.

*[Signature]*

Richard B. Dumas  
Group Manager – Fire Protection  
FM Approvals  
3150 Boston-Providence Turnpike  
Norwood, MA 01906

June 13, 2017  
Date



*Member of the PFM Global Group*

FM Approvals HIC  
04/17



# ANC Accreditation

## Deisel Engines FM Approval

|                                                                                     |                                                                                                                                                                                                           |                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <b>Certificate of Compliance</b>                                                                                                                                                                          |                                                                                                                                                                               |
|                                                                                     | This certificate is issued for the following:<br><b>Diesel Engines for Fire Pump Drivers</b><br>(see details on page 2)                                                                                   |                                                                                                                                                                               |
|                                                                                     | <b>Prepared for:</b><br>Karlson Oil Engines Ltd.<br>Laxmanrao Karlson Road<br>Khadi Purie<br>411 003 India                                                                                                | <b>Manufactured at:</b><br>Karlson Oil Engines Ltd.<br>Plot D/1, Five Star MIDC<br>Kagal-Hattamangale Industrial Area A/P<br>Talshige, Kolhapur, Maharashtra<br>411 202 India |
|                                                                                     | <b>FM Approvals Class:</b> 1333                                                                                                                                                                           |                                                                                                                                                                               |
|                                                                                     | <b>Approval Identification:</b> 0007052988                                                                                                                                                                | <b>Approval Granted:</b> December 18, 2014                                                                                                                                    |
|                                                                                     | To verify the availability of the Approved product, please refer to <a href="http://www.approvalguide.com">www.approvalguide.com</a>                                                                      |                                                                                                                                                                               |
|                                                                                     | This Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the construction as shown in the Approved Guide, an online resource of FM Approvals. |                                                                                                                                                                               |
|  |                                                                                                                       |                                                                                                                                                                               |
|                                                                                     | Richard B. Dumas<br>Manager of Fire Protection<br>FM Approvals<br>1151 Boston-Providence Turnpike<br>Norwood, MA 02062                                                                                    |                                                                                                                                                                               |
|                                                                                     | December 18, 2014<br>Date                                                                                                                                                                                 |                                                                                                                                                                               |
|                                                                                     | Page 1 of 2                                                                                                                                                                                               |                                                                                                                                                                               |





# ANC Accreditation

## Deisel Engines UL Approval

5/25/2017

QYLU.EX6155 - Internal-combustion Engines for Driving Stationary Fire Pumps



ONLINE CERTIFICATIONS DIRECTORY

QYLU.EX6155

Internal-combustion Engines for Driving Stationary Fire Pumps

[Page Bottom](#)

### Internal-combustion Engines for Driving Stationary Fire Pumps

[See General Information for Internal-combustion Engines for Driving Stationary Fire Pumps](#)

**CLARKE U K LTD**  
GRANGE WORKS  
LOMOND RD  
COATBRIDGE, ML5 2NN UNITED KINGDOM

EX6155

#### DIESEL ENGINES RATED AT SPECIFIC SPEEDS

| Model     | No. of Cylinders | Rated HP | Rated Speed (rpm) |
|-----------|------------------|----------|-------------------|
| JU4H-UF04 | 4                | 50       | 2350              |
| JU4H-UF04 | 4                | 55       | 2600              |
| JU4H-UF04 | 4                | 60       | 2800              |
| JU4H-UF04 | 4                | 60       | 3000              |
| JU4H-UF10 | 4                | 41       | 1760              |
|           | 4                | 51       | 2100              |
|           | 4                | 55       | 2350              |
| JU4H-UF12 | 4                | 55       | 2350              |
|           | 4                | 59       | 2600              |
| JU4H-UF14 | 4                | 55       | 2350              |
|           | 4                | 59       | 2600              |
|           | 4                | 70       | 2800              |
|           | 4                | 71       | 3000              |
| JU4H-UF20 | 4                | 60       | 1760              |
|           | 4                | 67       | 2100              |
|           | 4                | 72       | 2350              |
| JU4H-UF22 | 4                | 72       | 2350              |
|           | 4                | 75       | 2600              |
| JU4H-UF24 | 4                | 72       | 2350              |
|           | 4                | 75       | 2600              |
|           | 4                | 80       | 2800              |
|           | 4                | 83       | 3000              |
| JU4H-UF30 | 4                | 64       | 1760              |
|           | 4                | 79       | 2100              |
|           | 4                | 85       | 2350              |

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=QYLU.EX6155&ccnshorttitle=Internal-combustion+Engines+for+Driving+...> 1/9

Note : All Remaining Approved Models are Available upon Request



# ANC Accreditation

## Jockey Control Panel UL Approval

### CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190612-E158750  
**Report Reference** E158750-19940223  
**Issue Date** 2019-JUNE-12

**Issued to:** TORNATECH INC  
4100 Desserte Sud, (A-440 Ouest)  
Laval  
QC H7T 0H3 CANADA

**This certificate confirms that  
representative samples of**

INDUSTRIAL CONTROL PANELS

Includes Jockey Pump Controller Models JP1, JP2, JP3, JPY, JPD, DJP, and DJD; Remote Alarm Panel Models APE, APEE, APD, APDD, and APED; Low Level Lockout Panel Model LPL; and Low Suction Pressure Shutdown Panel Model LPS. These models are not exhaustive.

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

**Standard(s) for Safety:** UL 508A, Industrial Control Equipment  
CSA C22.2 No. 14-13, Industrial Control Equipment

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/certification>.



# ANC Accreditation

## Diesel Control Panel UL Approval

**ARIF  
AL-NAHDI  
CO. LTD.**



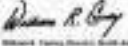
### CERTIFICATE OF COMPLIANCE

|                                                          |                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Certificate Number</b>                                | 20140706-EX3971                                                                                                                                                                                                                                    |
| <b>Report Reference</b>                                  | EX3971-20030507                                                                                                                                                                                                                                    |
| <b>Issue Date</b>                                        | 2014-JULY-06                                                                                                                                                                                                                                       |
| <b>Issued to:</b>                                        | TORNATECH INC<br>132<br>7075 PLACE ROBERT-JONCAS<br>ST LAURENT<br>QC H4M 2Z2 CANADA                                                                                                                                                                |
| <b>This is to certify that representative samples of</b> | PUMP CONTROLLERS, FIRE<br>GPD Series controller for engine-driven centrifugal fire pumps                                                                                                                                                           |
|                                                          | Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.                                                                                                                                                     |
| <b>Standard(s) for Safety:</b>                           | UL218, Fire Pump Controllers<br>UL508, Industrial Control Equipment<br>CSA C22.2 No. 263-08, Fire Pump Controllers<br>CAN/CSA C22.2 No. 14-10, Industrial Control Equipment<br>NFPA20 (2010), Installation of Stationary Pumps for Fire Protection |
| <b>Additional information:</b>                           | See the UL Online Certifications Directory at <a href="http://www.ul.com/database">www.ul.com/database</a> for additional information                                                                                                              |

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally indicates: the UL is a circle symbol with "C" and "US" identifiers;  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

  
William R. Gray, Senior Director, South American Certification Manager  
UL LLC

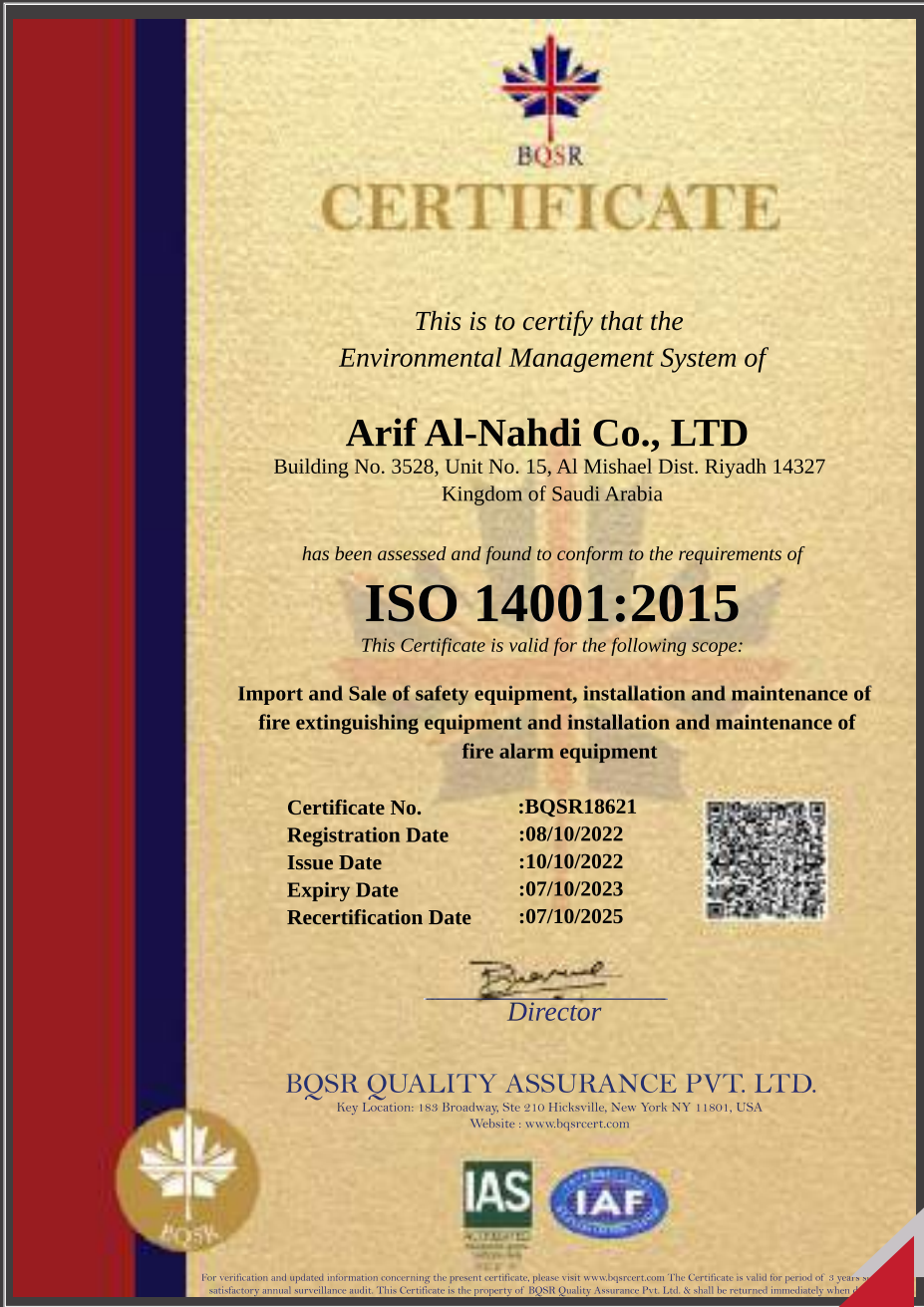


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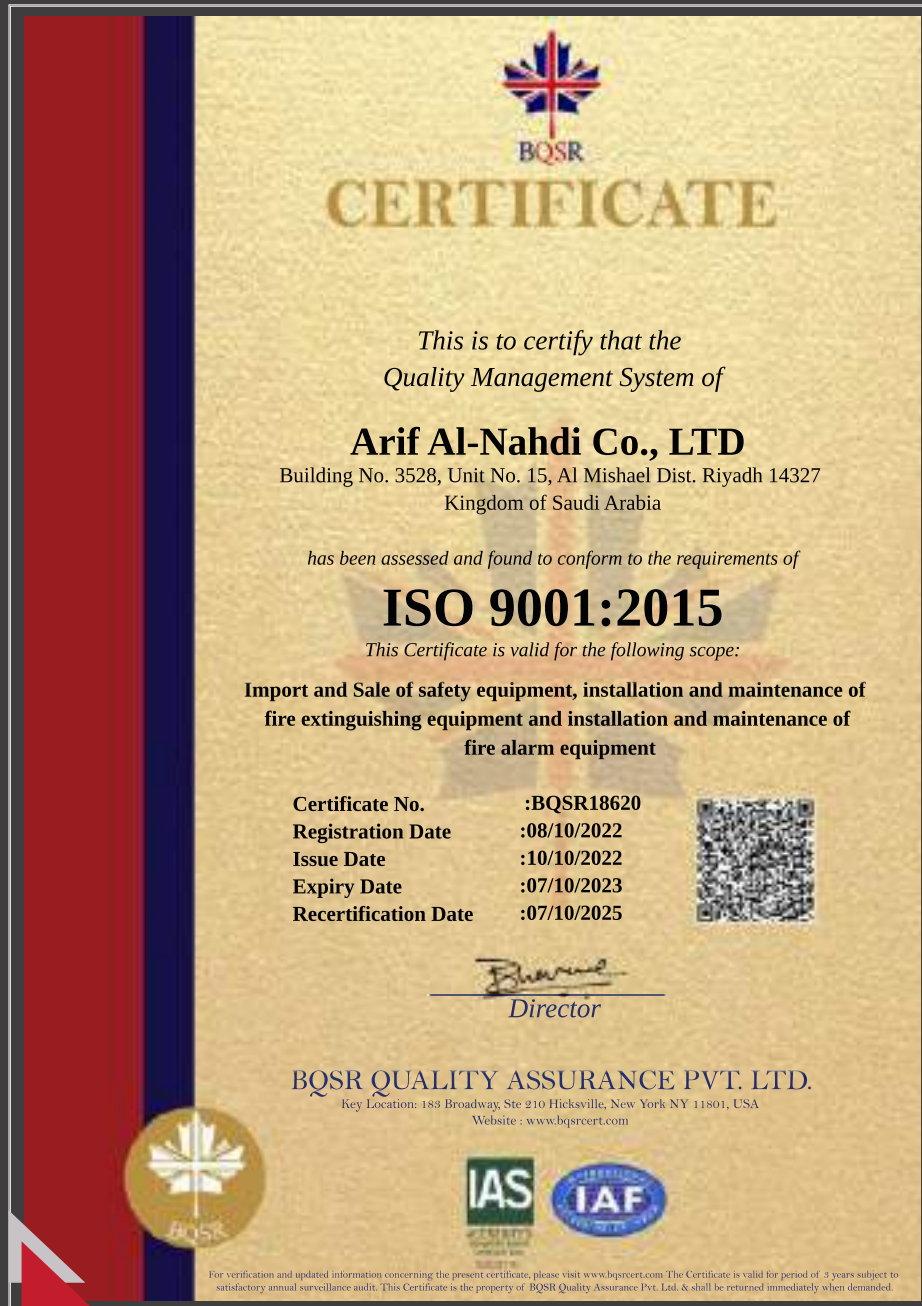
## ANC Accreditation

## ISO - Environmental Mangement



# ANC Accreditation

## ISO - Quality Mangement





# ANC Accreditation

## ISO - Occupational Health & Safety Management

  
**CERTIFICATE**

*This is to certify that the  
Occupational Health & Safety Management System of*

**Arif Al-Nahdi Co., LTD**  
Building No. 3528, Unit No. 15, Al Mishael Dist. Riyadh 14327  
Kingdom of Saudi Arabia

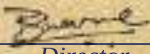
*has been assessed and found to conform to the requirements of*

**ISO 45001:2018**  
*This Certificate is valid for the following scope:*

**Import and Sale of safety equipment, installation and maintenance of  
fire extinguishing equipment and installation and maintenance of  
fire alarm equipment**

|                      |             |
|----------------------|-------------|
| Certificate No.      | :BQSR18622  |
| Registration Date    | :08/10/2022 |
| Issue Date           | :10/10/2022 |
| Expiry Date          | :07/10/2023 |
| Recertification Date | :07/10/2025 |



  
Director

**BQSR QUALITY ASSURANCE PVT. LTD.**  
Key Location: 189 Broadway, Ste 210 Hicksville, New York NY 11801, USA  
Website : [www.bqsrcert.com](http://www.bqsrcert.com)


For verification and updated information concerning the present certificate, please visit [www.bqsrcert.com](http://www.bqsrcert.com). The Certificate is valid for period of 3 years subject to satisfactory annual surveillance audit. This Certificate is the property of BQSR Quality Assurance Pvt. Ltd. & shall be returned immediately when demand.





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AL-NAHDI  
CO.LTD.**

**Fire Pumps &  
Safety Projects**

اعتمادية عالية .. وخدمات متميزة





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