PUMP AND BOOSTER SYSTEMS

2023

PRODUCT CATALOGUE

www.aquasan.com.tr

CE TSE TSEK NFPA

AQUA PUMP

PUMP AND WATER BOOSTER SYSTEMS

AQUASAN

PUMP AND BOOSTER SYSTEMS

Aquasan is a company with 100% Turkish capital, established in Malatya, manufacturing water booster, pump, modular water storage systems, fire booster systems and fire cabinet devices, and providing installation and after-sales support to its customers.

AQUASAN, since its establishment, has determined as its main vision; It carries out its fast, high quality, universal standards and specialized service approach on a **global scale.**

Our company successfully fulfills the mechanical water supply application and contracting works required by a large facility or building.

AQUA TANK
MODÜLER SU DEPOLAMA SİSTEMLERİ

AQUA PUMP
POMPA VE HİDROFOR SİSTEMLERİ

AQUA FIRE
YANGIN SÖNDÜRME SİSTEMLERİ

AQUA FLUE
METAL BACA SİSTEMLERİ

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AQUASAN®
GROUP

Malatya In our factory in the organized industrial zone, we produce all of the pump and booster systems, fire booster systems and expansion tanks in our own facilities.

In addition, our quality control unit confirms that we act in accordance with the international quality management **CE, TSE, TSEK, NFPA** norms that we adhere to at all stages of production.

AQUASAN

CONTENTS

“ Since its establishment, **AQUASAN** has reached the increasing number of satisfied customers and its potential; It has made strong and steady progress in the field of water storage and transfer around the world.

DÜNYA'NIN BİR ÇOK NOKTASINDA MÜŞTERİ PORTFÖYÜ

WIDESPREADED CUSTOMER SCALE IN ALL OF WORLD

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AQUASAN®

GROUP

GÜVENİLİR adımlarla BÜYÜYORUZ!

WE ARE PROGRESSING
BY TRUSTWORTHY STEPS

Türkiye'nin Mekanik Sektöründeki
Öncü Firması
Leader Firmof BuildingSector
in Turkey

Türkiye'den Dünya'ya Açılan
Bir Türk Markası
A Turkish brand originated in Turkey
to all over the world

www.aquasan.com.tr
AQUASAN®
GROUP

BOOSTER GROUP

The quality of our products and quality management systems have been documented with CE, TSE, TSEK certificates.

With our **AQUASAN** brand, in our factory in Malatya 1st Organized Industrial Zone; All of the pump booster, fire booster systems and fire cabinets are produced in our own facilities.

AQUASAN HYDROPHORUS SYSTEMS

Booster Systems
Aquasan Booster

Frequency Controlled Boosters
Aquasan Booster

Fire Booster
Aquasan Booster

500 m³/h up to
FLOW

It is high pressure, quiet running, compact and low power consumption.

160 m up to
DISCHARGE HEAD

It is suitable for printing clean or slightly dirty, low viscosity liquids that are non-abrasive, free of solid particles and fibers.

10-16-25 bars
BODY PRESSURE

It is high pressure, quiet running, compact and low power consumption.

AGRICULTURE | INDUSTRY | FARMING | HOSPITALS | SITES | HOUSES | SCHOOLS | BUILD

FREQUENCY CONTROLLED PANELS+ AQUASAN

Our new booster control panels are equipped with microprocessor electronic card and all pumps and booster pumps work. Responds to your needs. We provide energy saving and comfort with frequency converter control panels. In addition, this type of control boards have a self-test feature.

HYDROPHORE SYSTEMS

Vertical shaft multistage pump. The surfaces of the pump in contact with the water are NORYL (thermoplastic material) quality package type high-capacity boosters.

It is used in places that require continuous pressurized water such as apartments, schools, hospitals, factories, mass housing, business centers. It does not require periodic maintenance. Pumps and pumps are delivered mounted on a steel or sheet metal base.

In addition, this type of booster has panels with self-testing feature. They can also be used as a fire booster with the help of an extra solenoid valve. For the package type booster to work, it is sufficient to connect the suction and discharge collector to the installation and insert the energy cable into the panel.

Materials Supplied with the Booster

- Suction and discharge collector.
- Full bore ball valves.
- Silent missile type check valve.
- Level floater with 5 Mt cable that prevents running without water.
- P.01 up to 5.5 kW up to 5.5 kW, control panels with high-equipped turn changer feature with Y/D start of 7.5 kW and above, mounted on the chassis.
- Anti-vibration elastic wedges

Technicial Specifications

- Sequential operation according to water requirement.
- Pump change after each run.
- Pumps stop when there is no water in the suction.
- Delay during the activation of the 2nd and 3rd pumps.
- Delay during shutdown of the 2nd and 3rd pumps.
- Ability to read the phase-to-phase voltage from the screen on the microprocessor unit.
- The fault can be read through the microprocessor.
- All operating states can be seen on the control panel.
- In addition, there is an additional manual start switch on the side surface of the panel. (For models over 5.5 kW)

Engine Features

- Standard type B'5 flanged, 2-pole, three-phase, 50 Hz [2900 rpm] electric motor.
- Insulation Class: F | Protection Class: IP 55

Board Properties

Our new booster control panels respond to all pump and booster operation needs with a microprocessor electronic card.

TS EN 733 Norm Pumps

- Temperature range of the liquid: between 20 - 600C
- Operating Ambient temperature up to 400C
- Max. suction height up to 8 m
- Max. head up to 170 m
- Body Pressure (Pmax) 10-16-25 bar

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

Nomenclature of Boosters

ASN - F 80 - 06

- ASN — Pump name
- F — Frequency If controlled
- 80 — Transmitter Input Nominal Diameter
- 06 — The pump gives average flow

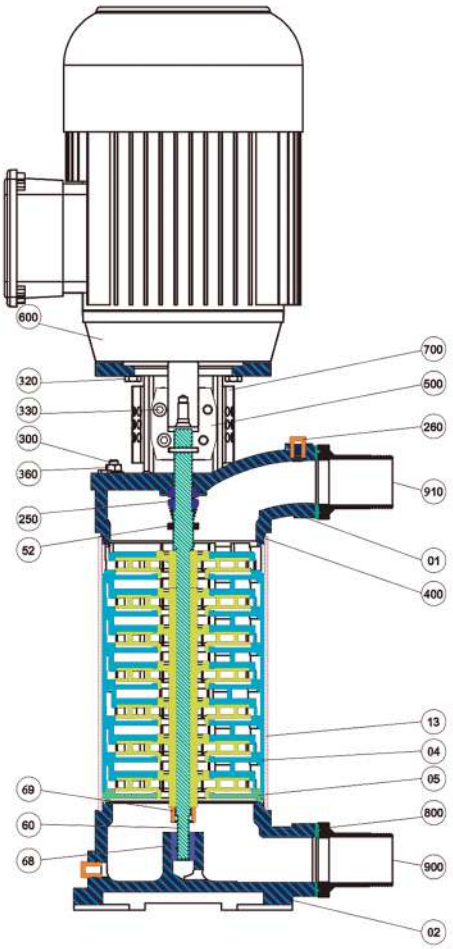
Section, Parts and Bill of Materials

CONSTRUCTION

ASN series pumps are multistage vertical centrifugal pumps. The receiver inlet is at the bottom of the pump and the transmitter is at the top of the pump.

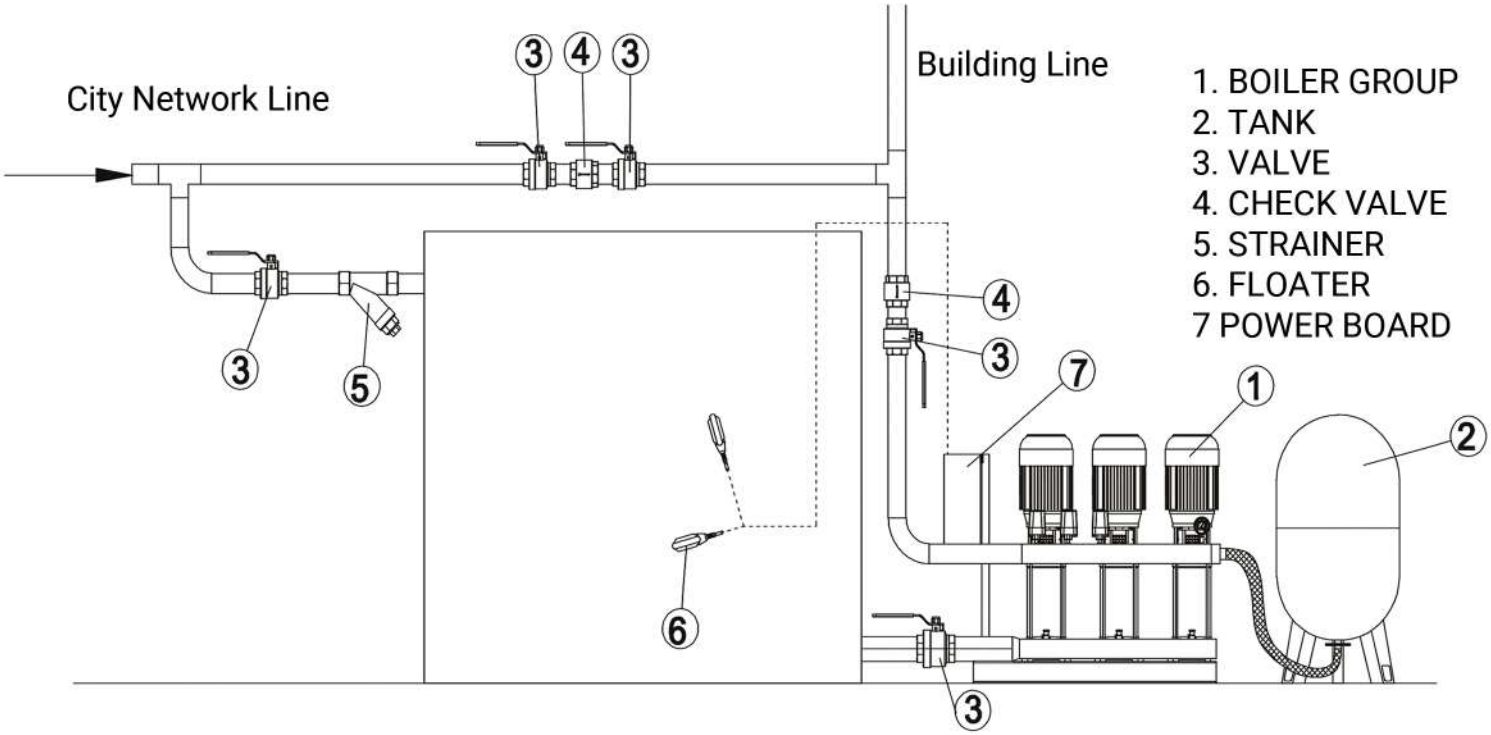
Receiver input and transmitter output of the pumps are threaded flanged. The shaft of the pump is made of stainless steel and the bedding is supported by a radial bearing made of chestnut at the bottom of the pump.

Since all bushings are made of brass, they do not rust. The coupling connection is made of ductile cast iron and is a leaf coupling.



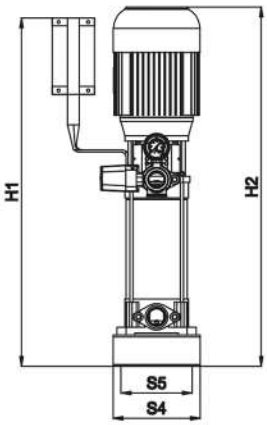
NO	PARÇA ADI	MALZEME
01	Transmitter Body	GG 22
02	Receiver Body	GG 22
04	Diff. Stage	NORYL
05	Diff. Cover	GG 22
13	Pump Armor	AISI 304
20	Wheels	NORYL
52	Mechanical Seal Bushing	Brass
60	Mil	AISI 420
68	Bottom Tire	
69	Bottom Nut	Brass
250	Mechanical Seal	RT130
260	Blind Plug	Brass
300	Side Studs	-
320	Hexagonal Bolt	
330	Allen Head Bolt	
400	O-Rings	NBR
500	Coupling	GGG 400
600	Motor	B14 Flanged
700	Coupling Protection	Sheet
800	Gasket	NBR
900	Transmitter Output	Flange+Sleeve
910	Receiver Inlet	Flange+Sleeve

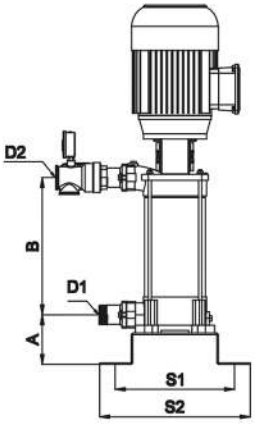
Domestic Water Booster Installation Diagram

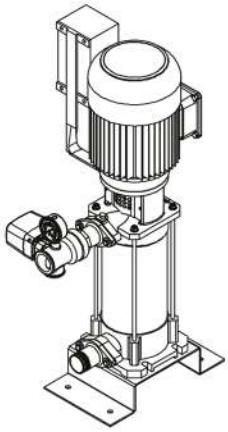


SINGLE PUMP HYDROPHORES

ASN SERIES SINGLE PUMP BOILER DIMENSIONS







Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 80-1005	0,75	1 1/4" - 1"	85	202	600	627	270	320	12	250	170
1 x ASN 80-1006	0,75	1 1/4" - 1"	85	224	600	649	270	320	12	250	170
1 x ASN 80-1007	1,1	1 1/4" - 1"	85	248	600	671	270	320	12	250	170
1 x ASN 80-1008	1,1	1 1/4" - 1"	85	268	600	682	270	320	12	250	170
1 x ASN 80-1009	1,1	1 1/4" - 1"	85	290	700	715	270	320	12	250	170
1 x ASN 80-1010	1,5	1 1/4" - 1"	85	312	700	740	270	320	12	250	170
1 x ASN 80-1011	1,5	1 1/4" - 1"	85	334	700	762	270	320	12	250	170
1 x ASN 80-1012	1,5	1 1/4" - 1"	85	356	700	784	270	320	12	250	170

Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 90-2004	1,5	1 1/4" - 1 1/4"	92	202	640	613	330	380	12	280	200
1 x ASN 90-2005	2,2	1 1/4" - 1 1/4"	92	230	640	641	330	380	12	280	200
1 x ASN 90-2006	2,2	1 1/4" - 1 1/4"	92	258	640	669	330	380	12	280	200
1 x ASN 90-2007	3	1 1/4" - 1 1/4"	92	286	750	723	330	380	12	280	200
1 x ASN 90-2008	3	1 1/4" - 1 1/4"	92	314	750	751	330	380	12	280	200
1 x ASN 90-2009	3	1 1/4" - 1 1/4"	92	342	750	779	330	380	12	280	200

Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 100-3003	3	1 1/2" - 1 1/2'	105	203	701	708	330	380	12	280	200
1 x ASN 100-3004	4	1 1/2" - 1 1/2"	105	236	790	785	330	380	12	280	200
1 x ASN 100-3005	5,5	1 1/2" - 1 1/2"	105	267	790	838	330	380	12	280	200
1 x ASN 100-3006	5,5	1 1/2" - 1 1/2"	105	302	865	851	330	380	12	280	200
1 x ASN 100-3007	5,5	1 1/2" - 1 1/2"	105	335	865	884	330	380	12	280	200

CONSTRUCTION

ASN series pumps are multistage vertical centrifugal pumps. The receiver inlet is at the bottom of the pump and the transmitter is at the top of the pump.

Receiver input and transmitter output of the pumps are threaded flanged. The shaft of the pump is made of stainless steel and the bedding is supported by a radial bearing made of chestnut at the bottom of the pump.

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TS EN 733 Norm Pumps

- Temperature range of the liquid: between 20 - 600C
- Operating Ambient temperature up to 400C
- Max. suction height up to 8 m
- Max. head up to 170 m
- Body Pressure (Pmax) 10-16-25 bar

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

Nomenclature of Boosters

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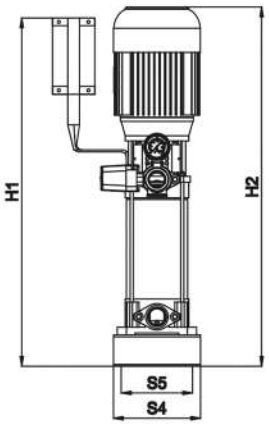
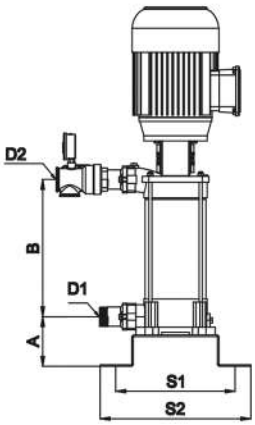
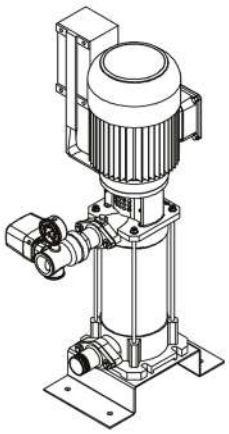
SINGLE PUMP HYDROPHORES

AQUA PUMP
PUMP AND WATER BOOSTER SYSTEMS

ASN SERIES SINGLE PUMP BOILER DIMENSIONS







Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 110-4004	3	2" - 2"	110	309	850		350	400	12	350	200
1 x ASN 110-4005	4	2" - 2"	110	357	898		350	400	12	350	200
1 x ASN 110-4006	5,5	2" - 2"	110	405	973		350	400	12	350	200
1 x ASN 110-4007	7,5	2" - 2"	110	403	1054		350	400	12	350	200

Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 120-5004	5,5	2" - 2"	110	419	877		350	400	12	350	200
1 x ASN 120-5005	7,5	2" - 2"	110	467	958		350	400	12	350	200
1 x ASN 120-5006	7,5	2" - 2"	110	515	1006		350	400	12	350	200
1 x ASN 120-5007	11	2" - 2"	110	563	1054		350	400	12	350	200

Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 130-6003	5,5	2 1/2" - 2 1/2'	110	371	829		350	350	12	350	200
1 x ASN 130-6004	7,5	2 1/2" - 2 1/2"	110	419	910		350	350	12	350	200
1 x ASN 130-6005	11	2 1/2" - 2 1/2"	110	467	958		350	350	12	350	200
1 x ASN 130-6006	11	2 1/2" - 2 1/2"	110	515	1006		350	350	12	350	200
1 x ASN 130-6007	15	2 1/2" - 2 1/2"	110	563	1172		350	350	12	350	200

Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 140-7003	11	3" - 2 1/2"	121	363	1200	1124	360	350	14	300	220
1 x ASN 140-7004	15	3" - 2 1/2"	121	437	1200	1198	360	350	14	300	220
1 x ASN 140-7005	15	3" - 2 1/2"	121	511	1200	1272	360	350	14	300	220
1 x ASN 140-7006	18,5	3" - 2 1/2"	121	585	1200	1346	360	350	14	300	220

Hidrofor Tipi	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x ASN 150-8102/B	22	3" - 2 1/2"	Consult the company.								
1 x ASN 150-8202/A	30	3" - 2 1/2"									
1 x ASN 150-8103/B	37	3" - 2 1/2"									
1 x ASN 150-8203/A	45	3" - 2 1/2"									

TS EN 733 Norm Pumps

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AQUA PUMP
PUMP AND BOOSTER SYSTEMS

Nomenclature of Boosters

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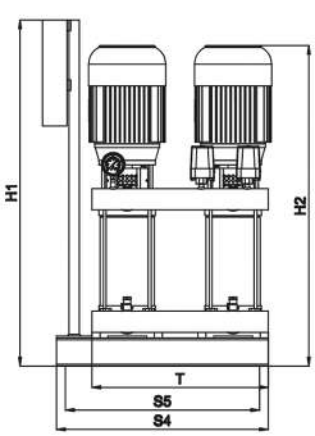
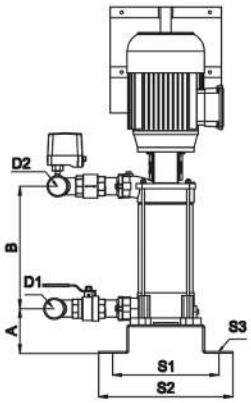
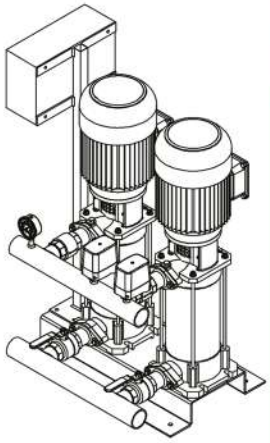
DOUBLE PUMP BOOSTERS

ASN SERIES DOUBLE PUMP BOILER DIMENSIONS







Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
2 x ASN 80-1005	2x0,75	1 1/2" - 1 1/4"	85	202	600	627	270	320	12	500	420
2 x ASN 80-1006	2x0,75	1 1/2" - 1 1/4"	85	224	600	649	270	320	12	500	420
2 x ASN 80-1007	2x1,1	1 1/2" - 1 1/4"	85	248	600	671	270	320	12	500	420
2 x ASN 80-1008	2x1,1	1 1/2" - 1 1/4"	85	268	600	682	270	320	12	500	420
2 x ASN 80-1009	2x1,1	1 1/2" - 1 1/4"	85	290	700	715	270	320	12	500	420
2 x ASN 80-1010	2x1,5	1 1/2" - 1 1/4"	85	312	700	740	270	320	12	500	420
2 x ASN 80-1011	2x1,5	1 1/2" - 1 1/4"	85	334	700	762	270	320	12	500	420
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Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x ASN 90-2004	2x1,5	1 1/2" - 1 1/2"	92	202	640	330	380	12	550	470	470
2 x ASN 90-2005	2x2,2	1 1/2" - 1 1/2"	92	230	640	330	380	12	550	470	470
2 x ASN 90-2006	2x2,2	1 1/2" - 1 1/2"	92	258	640	330	380	12	550	470	470
2 x ASN 90-2007	2x3	1 1/2" - 1 1/2"	92	286	750	330	380	12	550	470	470
2 x ASN 90-2008	2x3	1 1/2" - 1 1/2"	92	314	750	330	380	12	550	470	470
2 x ASN 90-2009	2x3	1 1/2" - 1 1/2"	92	342	750	330	380	12	550	470	470

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 100-3003	2x3	1 1/2" - 1 1/2'	105	203	701	330	380	12	600	520	500
3 x ASN 100-3004	2x4	1 1/2" - 1 1/2"	105	236	790	330	380	12	600	520	500
3 x ASN 100-3005	2x5,5	1 1/2" - 1 1/2"	105	267	790	330	380	12	600	520	500
3 x ASN 100-3006	2x5,5	1 1/2" - 1 1/2"	105	302	865	330	380	12	600	520	500
3 x ASN 100-3007	2x5,5	1 1/2" - 1 1/2"	105	335	865	330	380	12	600	520	500

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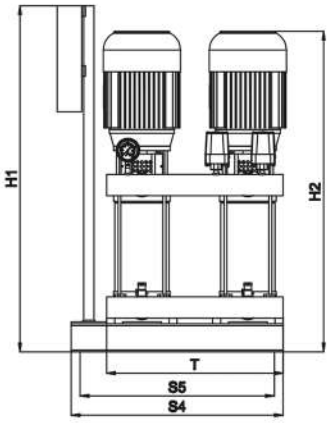
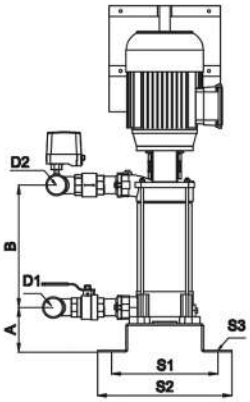
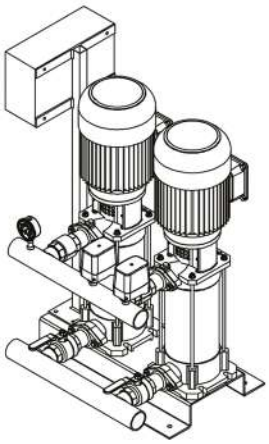






Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x ASN 110-4004	2x3	3" - 3"	140	309	880	480	560	12	700	520	630
2 x ASN 110-4005	2x4	3" - 3"	140	357	928	480	560	12	700	520	630
2 x ASN 110-4006	2x5,5	3" - 3"	140	405	1003	480	560	12	700	520	630
2 x ASN 110-4007	2x7,5	3" - 3"	140	453	1084	480	560	12	700	520	630

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x ASN 120-5004	2x5,5	3" - 3"	140	309	880	480	560	12	700	520	630
2 x ASN 120-5005	2x7,5	3" - 3"	140	357	928	480	560	12	700	520	630
2 x ASN 120-5006	2x7,5	3" - 3"	140	405	1003	480	560	12	700	520	630
2 x ASN 120-5007	2x11	3" - 3"	140	453	1084	480	560	12	700	520	630

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x ASN 130-6003	2x5,5	DN100 - 3"	140	261	859	480	560	12	700	520	630
2 x ASN 130-6004	2x7,5	DN100 - 3"	140	309	940	480	560	12	700	520	630
2 x ASN 130-6005	2x11	DN100 - 3"	140	357	988	480	560	12	700	520	630
2 x ASN 130-6006	2x11	DN100 - 3"	140	405	1036	480	560	12	700	520	630
2 x ASN 130-6007	2x15	DN100 - 3"	140	453	1202	480	560	12	700		630

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x ASN 140-7003	2x11	DN125 - DN125	121	363	1200	360	350	14	725	595	725
2 x ASN 140-7004	2x15	DN125 - DN125	121	437	1200	360	350	14	725	595	725
2 x ASN 140-7005	2x15	DN125 - DN125	121	511	1200	360	350	14	725	595	725
2 x ASN 140-7006	2x18,5	DN125 - DN125	121	585	1200	360	350	14	725	595	725

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x ASN 150-8102/B	2x22	DN125 - DN125	Consult the company.								
2 x ASN 150-8202/A	2x30	DN125 - DN125									
2 x ASN 150-8103/B	2x37	DN125 - DN125									
2 x ASN 150-8203/A	2x45	DN125 - DN125									

TS EN 733 Norm Pumps

- Temperature range of the liquid: between 20 - 600C
- Operating Ambient temperature up to 400C
- Max. suction height up to 8 m
- Max. head up to 170 m
- Body Pressure (Pmax) 10-16-25 bar

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

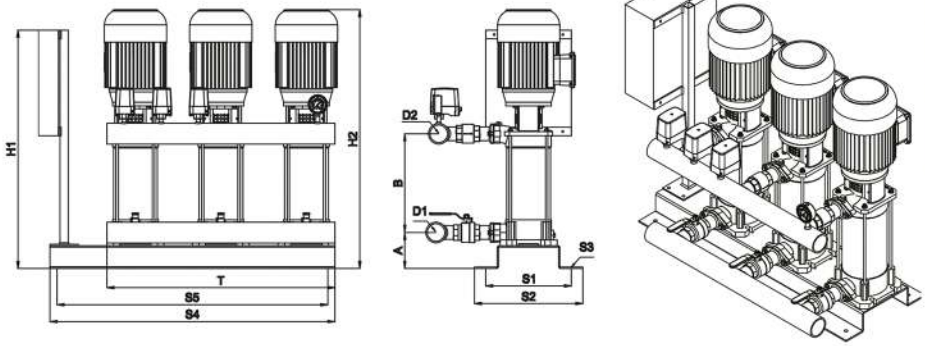
Nomenclature of Boosters

ASN - F 80 - 06

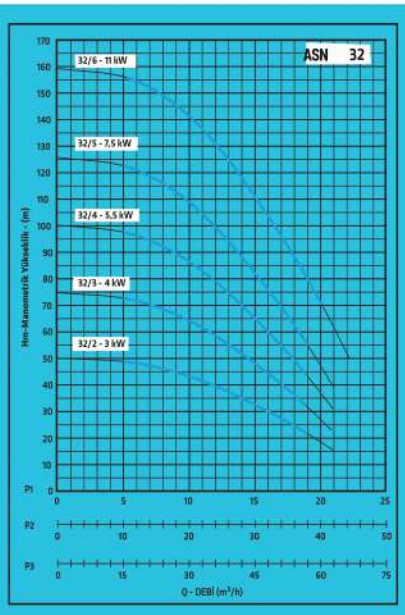
- ASN — Pump name
- F — Frequency If controlled
- 80 — Transmitter Input Nominal Diameter
- 06 — The pump gives average flow

THREE PUMP BOOSTERS

ASN SERIES THREE PUMP BOILER DIMENSIONS

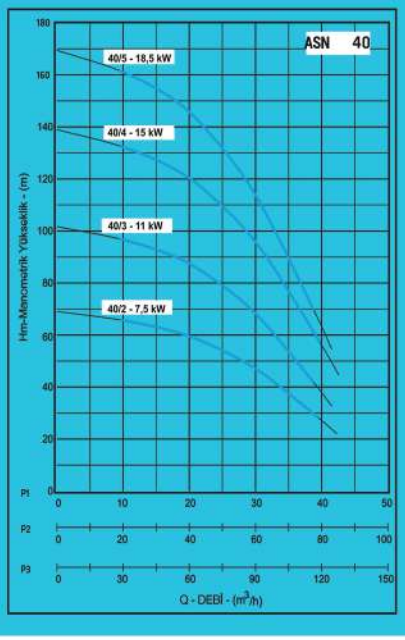


Booster Type	ENGINE KW	D1-D2	A	B	H1	H2	S1	S2	S3	S4	S5
3 x ASN 80-1005	3x0,75	2" - 1 1/2"	85	202	600	627	270	320	12	800	720
3 x ASN 80-1006	3x0,75	2" - 1 1/2"	85	224	600	649	270	320	12	800	720
3 x ASN 80-1007	3x1,1	2" - 1 1/2"	85	248	600	671	270	320	12	800	720
3 x ASN 80-1008	3x1,1	2" - 1 1/2"	85	268	600	682	270	320	12	800	720
3 x ASN 80-1009	3x1,1	2" - 1 1/2"	85	290	700	715	270	320	12	800	720
3 x ASN 80-1010	3x1,5	2" - 1 1/2"	85	312	700	740	270	320	12	800	720
3 x ASN 80-1011	3x1,5	2" - 1 1/2"	85	334	700	762	270	320	12	800	720
3 x ASN 80-1012	3x1,5	2" - 1 1/2"	85	356	700	784	270	320	12	800	720



Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 90-2004	3x1,5	2" - 2"	92	202	640	330	380	12	850	770	740
3 x ASN 90-2005	3x2,2	2" - 2"	92	230	640	330	380	12	850	770	740
3 x ASN 90-2006	3x2,2	2" - 2"	92	258	640	330	380	12	850	770	740
3 x ASN 90-2007	3x3	2" - 2"	92	286	750	330	380	12	850	770	740
3 x ASN 90-2008	3x3	2" - 2"	92	314	750	330	380	12	850	770	740
3 x ASN 90-2009	3x3	2" - 2"	92	342	750	330	380	12	850	770	740

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 100-3003	3x3	2 1/2" - 2 1/2"	105	203	701	330	380	12	900	820	800
3 x ASN 100-3004	3x4	2 1/2" - 2 1/2"	105	236	790	330	380	12	900	820	800
3 x ASN 100-3005	3x5,5	2 1/2" - 2 1/2"	105	267	790	330	380	12	900	820	800
3 x ASN 100-3006	3x5,5	2 1/2" - 2 1/2"	105	302	865	330	380	12	900	820	800
3 x ASN 100-3007	3x5,5	2 1/2" - 2 1/2"	105	335	865	330	380	12	900	820	800



CONSTRUCTION

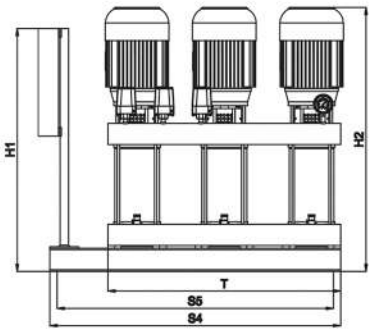
ASN series pumps are multistage vertical centrifugal pumps. The receiver inlet is at the bottom of the pump and the transmitter is at the top of the pump.

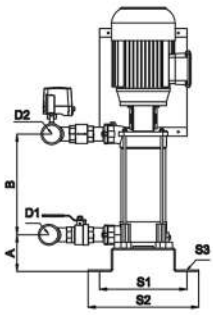
Receiver input and transmitter output of the pumps are threaded flanged. The shaft of the pump is made of stainless steel and the bedding is supported by a radial bearing made of chestnut at the bottom of the pump.

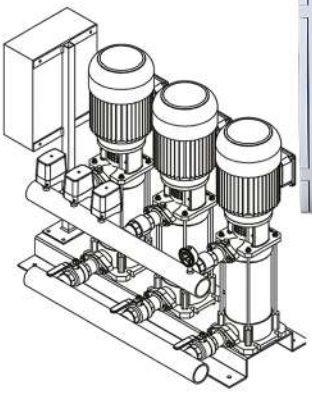
Since all bushings are made of brass, they do not rust. The coupling connection is made of ductile cast iron and is a leaf coupling.

THREE PUMP BOOSTERS

ASN SERIES THREE PUMP BOILER DIMENSIONS







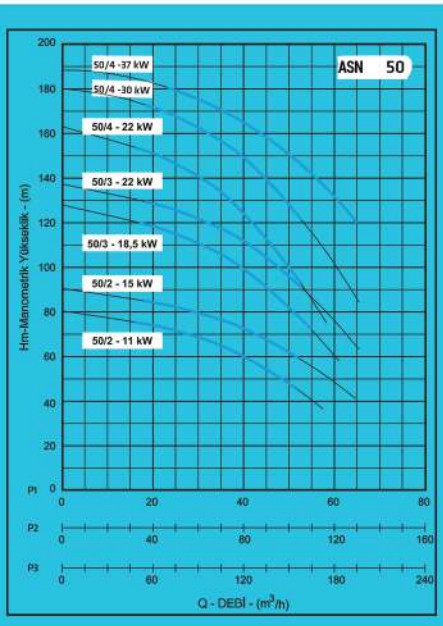
Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 110-4004	3x3	DN100-DN100	140	309	880	480	560	12	1030	700	960
3 x ASN 110-4005	3x4	DN100-DN100	140	357	928	480	560	12	1030	700	960
3 x ASN 110-4006	3x5,5	DN100-DN100	140	405	1003	480	560	12	1030	700	960
3 x ASN 110-4007	3x7,5	DN100-DN100	140	453	1084	480	560	12	1030	700	960

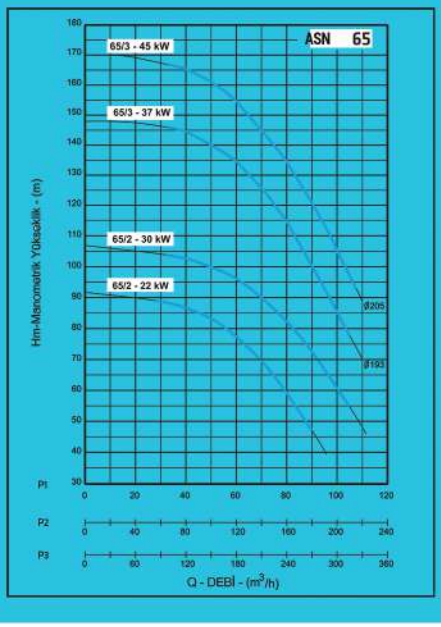
Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 120-5004	3x5,5	DN100-DN100	140	309	880	480	560	12	1030	700	960
3 x ASN 120-5005	3x7,5	DN100-DN100	140	357	928	480	560	12	1030	700	960
3 x ASN 120-5006	3x7,5	DN100-DN100	140	405	1003	480	560	12	1030	700	960
3 x ASN 120-5007	3x11	DN100-DN100	140	453	1084	480	560	12	1030	700	960

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 130-6003	3x5,5	DN125-DN100	140	261	859	480	560	12	1030	700	960
3 x ASN 130-6004	3x7,5	DN125-DN100	140	309	940	480	560	12	1030	700	960
3 x ASN 130-6005	3x11	DN125-DN100	140	357	988	480	560	12	1030	700	960
3 x ASN 130-6006	3x11	DN125-DN100	140	405	1036	480	560	12	1030	700	960
3 x ASN 130-6007	3x15	DN125-DN100	140	453	1202	480	560	12	1030	700	960

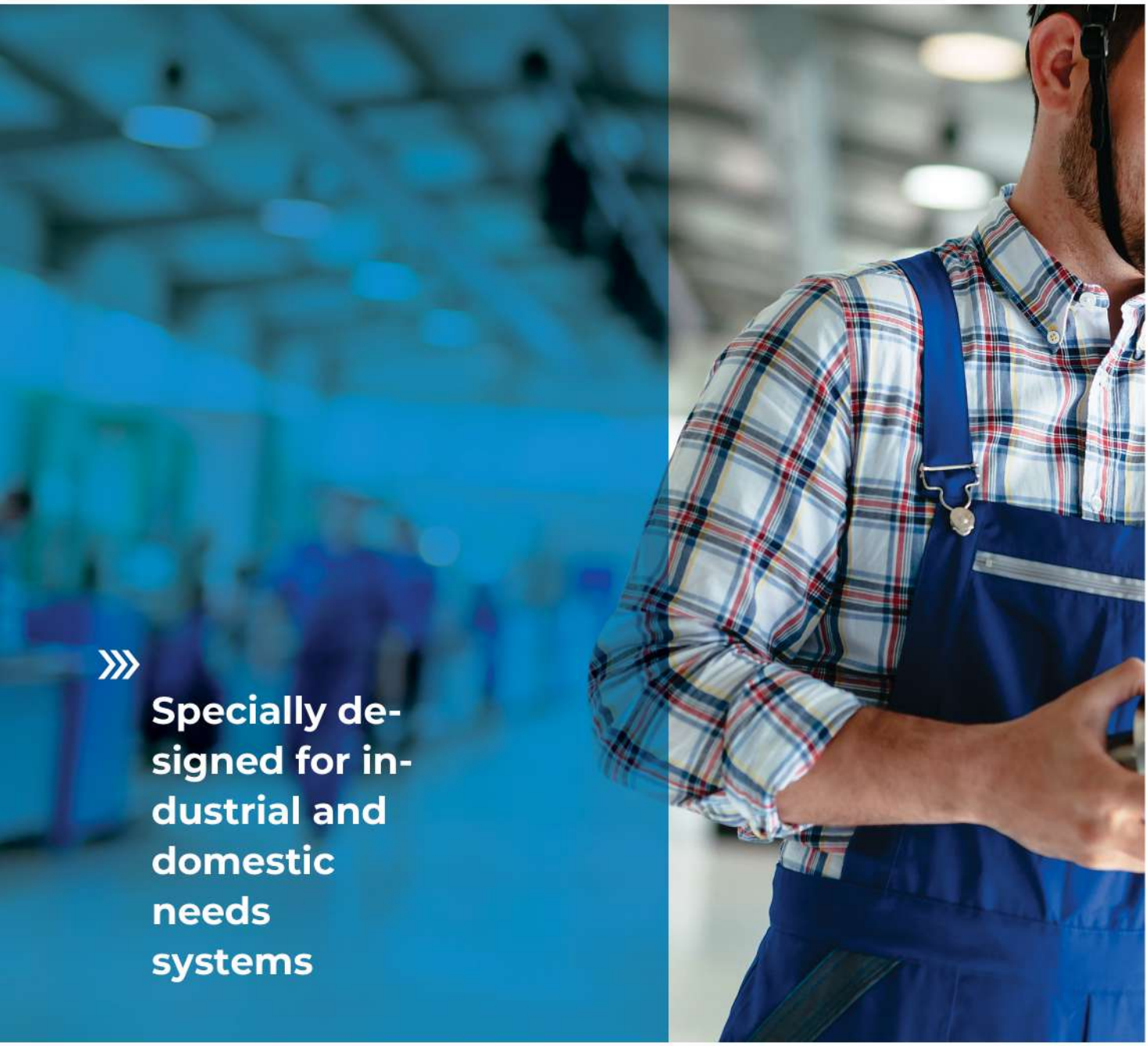
Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 140-7003	3x11	DN150-DN125	121	363	1200	330	360	14	1100	970	110
3 x ASN 140-7004	3x15	DN150-DN125	121	437	1200	330	360	14	1100	970	110
3 x ASN 140-7005	3x15	DN150-DN125	121	511	1200	330	360	14	1100	970	110
3 x ASN 140-7006	3x18,5	DN150-DN125	121	585	1200	330	360	14	1100	970	110

Booster Type	ENGINE KW	D1-D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x ASN 150-8102/B	3x22	DN150-DN150	Consult the company.								
3 x ASN 150-8202/A	3x30	DN150-DN150									
3 x ASN 150-8103/B	3x37	DN150-DN150									
3 x ASN 150-8203/A	3x45	DN150-DN150									





PUMP GROUP



Specially designed for industrial and domestic needs systems

The quality of our products and quality management systems have been documented with CE, TSE, TSEK certificates.

With our **AQUASAN** brand, in our factory in Malatya 1st Organized Industrial Zone; All of the pump booster, fire booster systems and fire cabinets are produced in our own facilities.

PUMP SYSTEMS

Circulation Pumps
Aquasan Pump

Monoblock Centrifuge Pumps
Aquasan Pump

Centrifugal Pumps
Aquasan Pump

500 m³/h up to
FLOW

It is high pressure, quiet running, compact and low power consumption.

160 m up to
DISCHARGE HEAD

It is suitable for printing clean or slightly dirty, low viscosity liquids that are non-abrasive, free of solid particles and fibers.

10-16-25 bars
BODY PRESSURE

It is high pressure, quiet running, compact and low power consumption.

AGRICULTURE | INDUSTRY | FARMING | HOSPITALS | SITES | HOUSES | SCHOOLS | BUILD

CE, TSE, TSEK, NFPA 20 + PRODUCTION ACCORDING TO NORMS

Our products comply with **TS EN 733** standards. Suction and discharge flanges comply with **TS EN 1092 - 2 / PN 16.** Flanges in pumps with steel or stainless steel body material comply with **TS EN 1092 - 1 / PN 16.** All impellers are dynamically or statically balanced according to **ISO 1940** class 6.3.

LINE TYPE IN-LINE CIRCULATION PUMPS

• Single-stage, volute, closed impeller, monoblock centrifugal pumps that can be connected to straight pipes.

• Suction and discharge flanges comply with **TS EN 1092 - 2 / PN 16.**

• It is used with STANDART electric motors in accordance with VDI standards and IEC construction sizes.

• Thanks to the detachable design from the back, the motor, motor carrier, shaft seal without separating the volute from the piping
bearing and impeller can be removed.

• Axial force compensated by rear wear ring/balance holes system.

Application and Usage Areas

• These pumps are suitable for low-viscosity liquids that are not abrasive, free of solid particles and fibers, clean or slightly dirty (solid particle ratio up to 0.02).

• It is used for circulation and fluid transfer in water supply, heating and cooling systems. It can also be used in industrial applications.

• 0-360 m3/h Capacity Total Head 100m.

• Motor power up to 45kW

• Working Temperature up to 90 °C - Working Pressure 10 Bar

Pump - Motor Connection

• These pumps are connected to a standard electric motor in B5 construction by means of a special adapter

• Electric motors 380 V – 50 Hz. It is in IE2 and IP 55 protection class.

• Electric motors are suitable to be operated with frequency converter.

Shaft Sealing

• Uncooled and unbalanced type single mechanical seals that are washed with the pumped liquid are used.

Optional Features

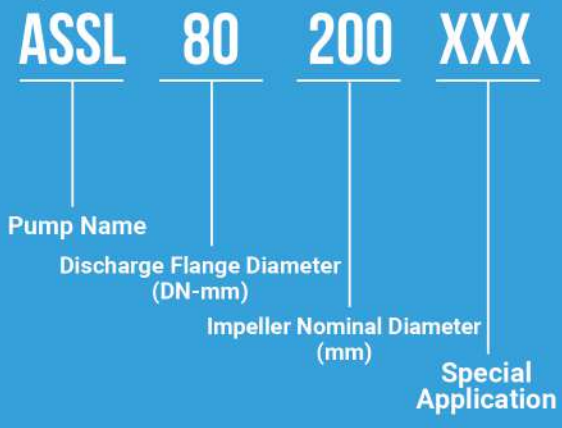
• Selection of special mechanical seal depending on the type of liquid.
• AISI 316 pump shaft.
• Other motor protection classes
• Exproof motor (conforming to ATEX - 94/9 EEC directive)
• Other motor voltages

TS EN 1092-2 Norm Pumps

• Compression Flange DIN 40 - DIN 150 mm
• Operating temperature between -10 + 900C
• Ambient temperature up to 400C
• Max. suction height up to 2 m
• Max. head up to 100 m
• Body Pressure (Pmax)10 bar (16 bar)

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

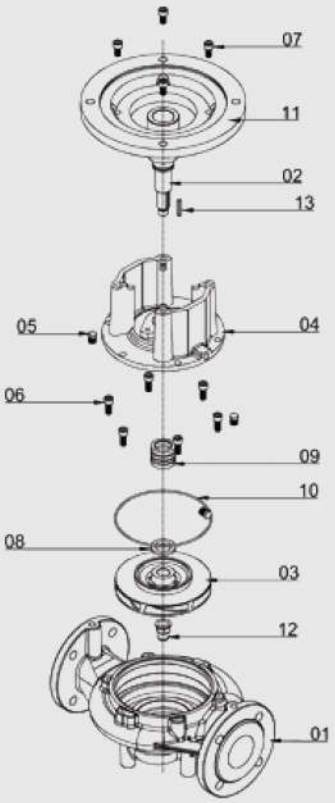
Pump Nomenclature in accordance with DIN 2533

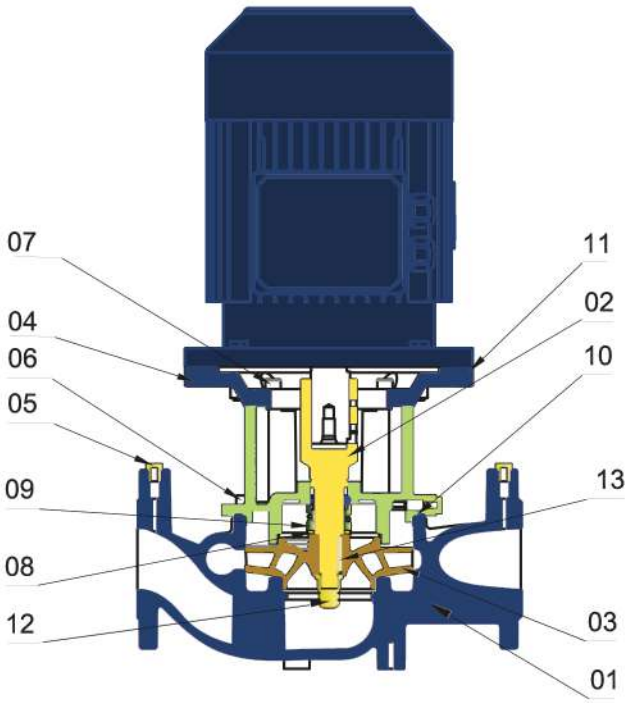


A list of materials

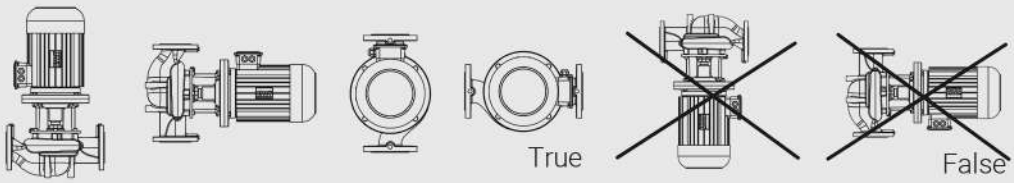
TRACK NAME	MATERIAL			
	Standard Production	Bronze Wheel	Complete Bronze	Stainless steel
Snail Body	GG 25	GG 25	Bronze	AISI 304-316
Wheel	GG 25	Bronze	Bronze	AISI 304-316
Wear Ring(*)	Bronze	Bronze	Bronze	AISI 420
Pump Shaft	AISI 420	AISI 420	AISI 420	AISI 304-316

Section and Parts List





NO	PART NAME
1	In-Line Snail Body
2	Miles
3	Gears
4	Motor Carrier Adapter
5	Bleed Plug (Drain)
6	Imbus Bolts
7	Imbus Flange Bolts
8	Mechanical Seal Bushing
9	Mechanical Seal
10	O-Rings
11	Flange
12	Fan Nuts
13	Wedge

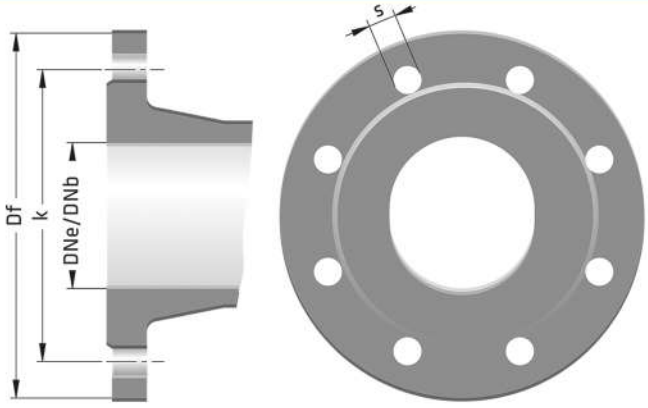


Flange Dimensions

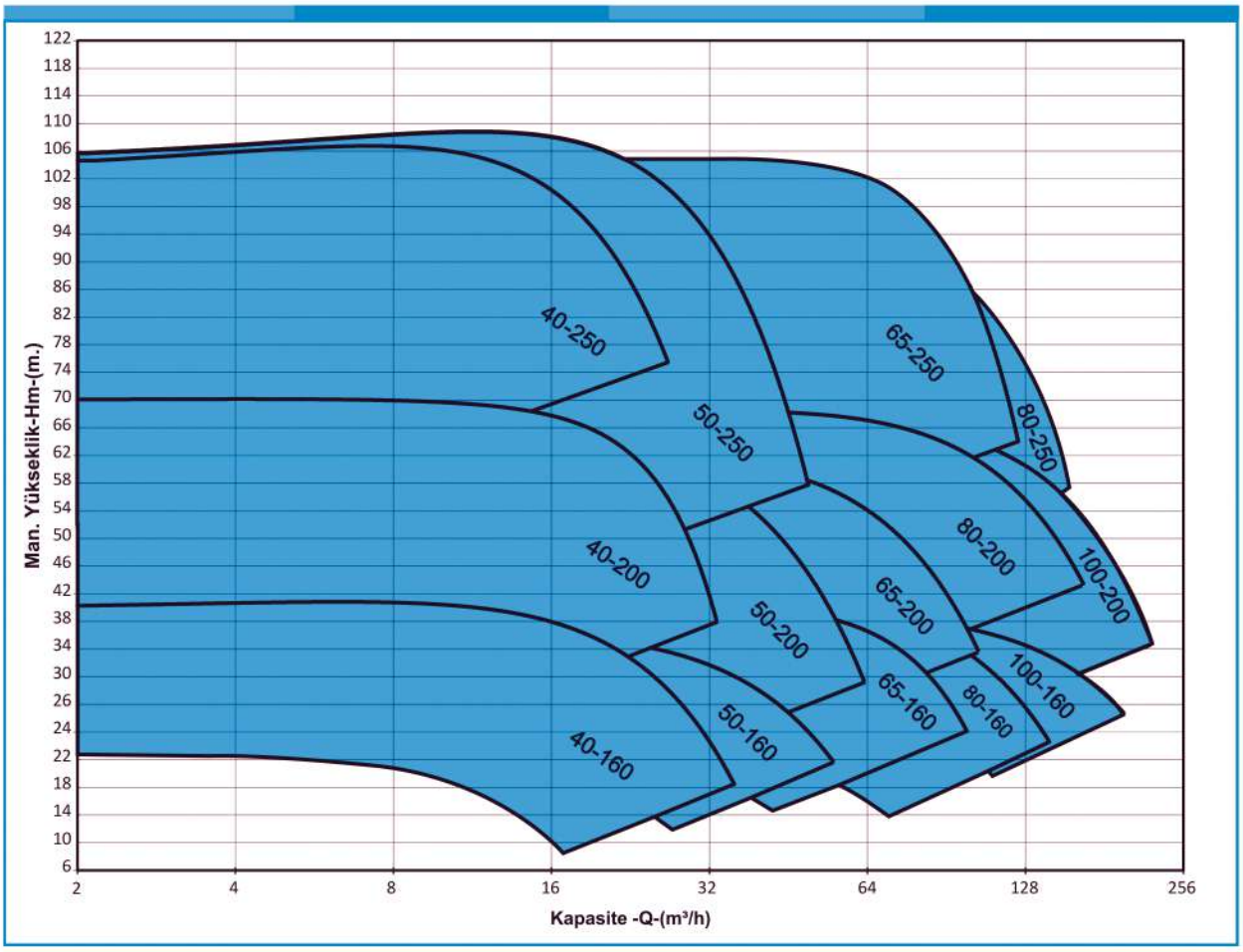
TS EN 1092 - 2

DNe / DNb	Suction & Discharge (PN 16)			
	Df	k	s	n
40	150	110	19	4
50	165	125	19	4
65	185	145	19	4
80	200	160	19	8
100	220	180	19	8
125	250	210	19	8
150	285	240	23	8
200	340	295	23	12

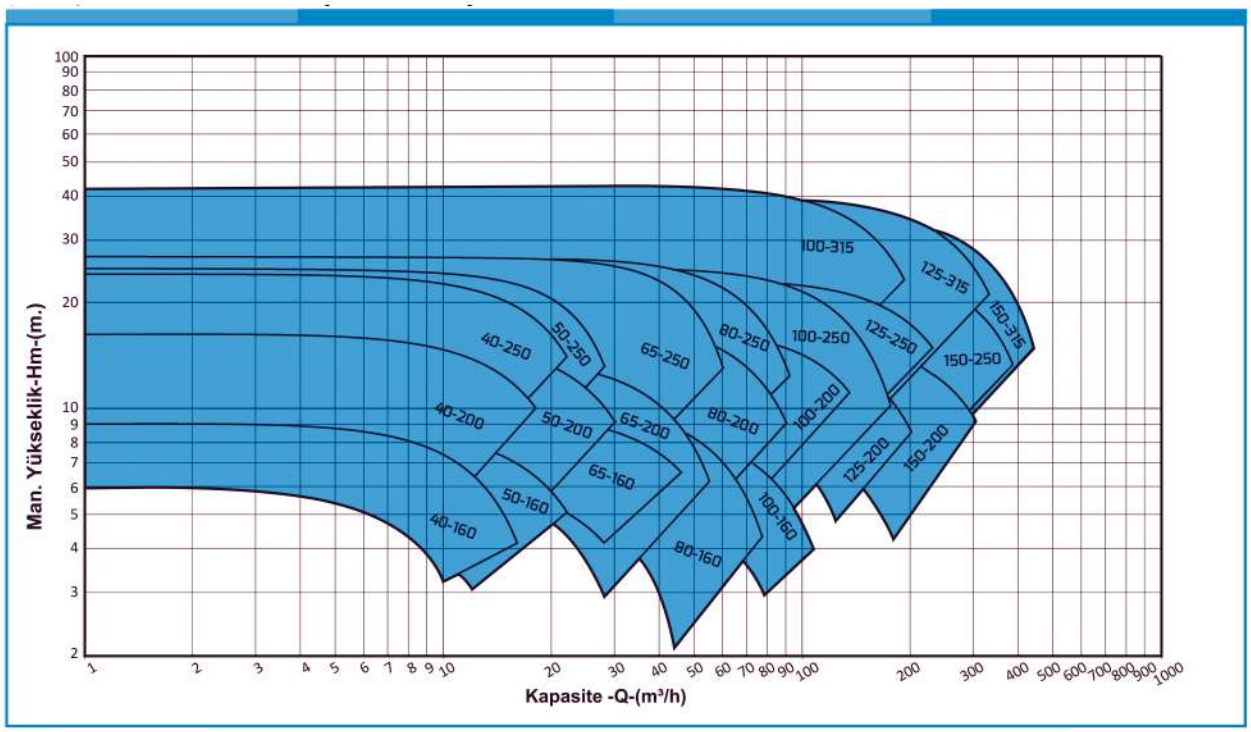
"n" number of holes



WORKING AREA - ASSL (2900 RPM)

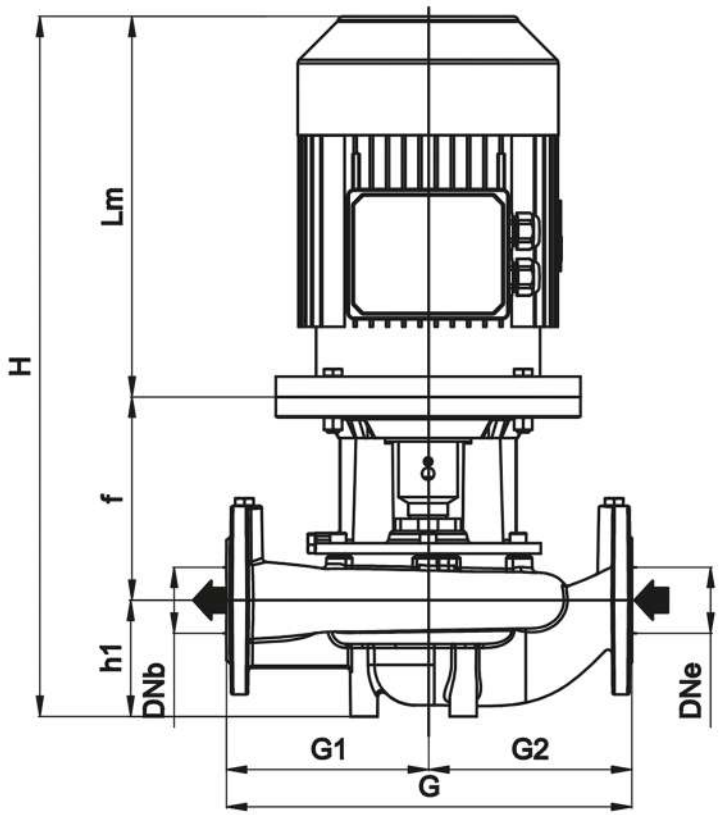


WORKING AREA - ASSL (1450 RPM)



General Size Chart

AQUA PUMP
PUMP AND BOOSTER SYSTEMS



Pump Type	KW	DNb-DNe Exit - Entry	Dimensions (mm)							Mek. Salm. Çapı	Weight
			Lm	G	H	G2	G1	h1	f		
ASSL 40-160	0,55	DN 40-DN 40	252,5	320	492	160	160	80	160	20	35,6
	0,75		283,5		523				160	20	36,8
	1,1		316,5		556,5				160	20	41,8
	1,5		316,5		556,5				160	20	42,4
	2,2		344,5		584,5				160	20	42,8
	3		352		592				160	20	51,5
	4		395,5		655,5				180	20	59
	5,5		440,5		700,5				180	30	78
ASSL 40-200	0,55	DN40-DN40	252,5	380	507,5	190	190	95	160	20	40,1
	0,75		283,5		538,5				160	20	41,2
	1,1		316,5		571,5				160	20	44,7
	1,5		316,5		571,5				160	20	45,7
	3		352		727				180	20	54,8
	4		395,5		670,5				180	20	62,7
	5,5		440,5		740,5				205	30	83,9
	7,5		475,5		775,5				205	30	89,9
	11		576		876				230	30	131
ASSL 40-250	0,75	DN40-DN40	243,5	440	513,5	225	215	100	170	20	56
	1,1		266,5		533,5				170	20	60
	1,5		266,5		533,5				170	20	65
	2,2		292		580				190	20	70
	3		292		580				190	20	74
	5,5		360,5		675,5				215	30	140
	7,5		360,5		675,5				215	30	145
	11		466		806				240	30	162
	15		466		806				240	30	180
ASSL 50-160	0,55	DN50-DN50	252,5	360	512,5	180	180	100	160	20	38,5
	0,75		283,5		543,5				160	20	39,6
	1,1		316,5		576,5				160	20	41,6
	1,5		316,5		576,5				160	20	42,7
	2,2		344,5		604,5				160	20	42,9
	3		352		632				180	20	54,4
	4		395,5		675,5				180	20	62,4
	5,5		440,5		720,5				200	30	80,1
	7,5		475,5		755,5				200	30	81,2
ASSL 50-200	0,55	DN50-DN50	252,5	400	522,5	200	200	110	160	20	42,4
	0,75		283,5		553,5				160	20	42,7
	1,1		316,5		586,5				160	20	46,5
	1,5		316,5		586,5				160	20	47
	5,5		440,5		755				205	30	88,8
	7,5		475,5		790,5				205	30	89,3
	11		576		916				230	30	136,9
	15		576		916				230	30	137,1
ASSL 50-250	0,75	DN50-DN50	243,5	440	518,5	225	215	115	160	20	60
	1,1		266,5		541,5				160	20	65
	1,5		266,5		541,5				160	20	69
	2,2		292		587				180	20	71,3
	3		292		587				180	20	75
	11		466		811				230	30	165
	15		466		811				230	30	182
	18,5		519		864				230	30	198
	22		519		864				230	30	235

Pump Type	KW	DNb-DNe Exit - Entry	Dimensions (mm)							Mek. Salm. Çapı	Weight
			Lm	G	H	G2	G1	h1	f		
ASSL 65-160	0,75	DN65-DN65	283,5	400	558,5	200	200	115	160	20	42
	1,1		316,5		591,5				160	20	45,3
	1,5		316,5		591,5				160	20	46,5
	3		352		647				180	20	58,07
	4		395,5		670,5				180	20	58,9
	5,5		440,5		755,5				200	30	84,6
	7,5		475,5		790,5				200	30	85,05
	11		576		821				230	30	133,5
ASSL 65-200	1,1	DN65-DN65	316,5	460	591,5	230	230	115	160	20	51,95
	1,5		316,5		591,5				160	20	52,88
	2,2		305		600				180	20	63,2
	3		352		647				180	20	63,2
	7,5		475,5		795,5				205	30	95,8
	11		576		921				230	30	142,1
	15		576		921				230	30	142,5
	18,5		576		921				230	30	142,9
ASSL 65-250	15	DN 65 - DN 65	484	480	849	235	245	135	230	30	205
	18,5		528		893				230	30	208
	22		544		909				230	30	218,5
	30		637		1032				260	35	266
	37		637		1032				260	35	295
	45										
	1,5		275		570				160	20	70,5
	2,2		305		620				180	20	72,5
	3		205		620				180	20	73
	4		324		639				180	20	85
	5,5		375		715				205	30	107
ASSL 80-160	0,75	DN80-DN80	283,5	440	588,5	220	220	135	170	20	46,8
	1,1		316,5		621,5				170	20	48,8
	1,5		316,5		621,5				170	20	50,8
	2,2		344,5		669,5				190	20	65
	4		324		649				190	20	70,8
	5,5		440,5		785,5				210	30	89,9
	7,5		475,5		820,5				210	30	91,4
	11		576		951				240	30	137,5
	15		576		951				240	30	159
	18,5		576		951				240	30	184
ASSL 80-200	1,1	DN80-DN80	316,5	500	716,5	250	250	140	160	20	56,8
	1,5		316,5		716,5				160	20	57,2
	2,2		344,5		689,5				205	20	66,6
	3		352		697				205	20	67,06
	4		395,5		740,5				205	20	75,5
	11		576		946				230	30	145,7
	15		576		946				230	30	146
	18,5		576		946				230	30	146,3
	22		629		999				230	30	179,68
ASSL 80-250	15	DN80-DN80	484	550	869	280	270	145	240	30	150
	18,5		544		929				240	30	151
	22		544		929				240	30	183
	30		637		1052				270	35	220
	37		637		1052				270	35	
	45									35	
	2,2		305		630				180	20	89
	3		305		630				180	20	90
	4		324		649				180	20	99
	5,5		375		735				215	30	119
	7,5		413		773				215	30	125
ASSL 100-160	1,1	DN100-DN100	250	500	565	250	250	155	160	20	61
	1,5		275		590				160	20	63
	2,2		205		640				180	20	74
	3		205		640				180	20	77
	7,5		375		740				240	30	100
	11		484		879				240	30	165
	15		484		879				240	30	175
	18,5		528		923				240	30	190
	22		544		923				240	30	233
ASSL 100-200	2,2	DN100-DN100	305	550	675	275	275	180	190	20	77
	3		305		675				190	20	84,3
	4		324		694				190	20	91
	5,5		375		770				215	30	114
	7,5		413		808				215	30	122
	22		544		947				250	30	246
	30		637		1097				280	35	312
	37		637		1907				280	35	332
	45C		637		2097				280	35	355
ASSL 100-250	3	DN100-DN100	305	600	675	280	320	190	189	30	105
	4		324		694				180	30	115
	5,5		375		780				215	30	135
	7,5		413		818				215	30	140
	11		484		914				240	30	220
ASSL 100-315	11	DN100-DN100	466	650	896	315	335	190	240	30	225
	15		466		896					30	258
	18,5		519		949					30	278
	22		519		949					30	303
ASSL 125-200	3	DN125-DN125	272	600	672	300	300	210	190	30	99
	4		335,5		735,5				190	30	107
	5,5		395,5		820,5				215	30	130
	7,5		395,5		820,5				215	30	137
ASSL 125-250	5,5	DN125-DN125	395,5	650	820,5	300	350	210	215	30	138
	7,5		395,5		820,5				215	30	146
	11		466		916				240	30	220
	15		466		916				240	30	254
	18,5		519		969				240	30	274
ASSL 125-315	11	DN125-DN125	466	700	946	330	370	210	270	30	245
	15		466		946				270	30	251
	18,5		519		999				270	30	285
	22		519		999				270	30	312
	30		555		1065				300	35	393
	37		555		850				85	35	413
ASSL 150-200	4	DN150-DN150	335,5	650	755,5	315	335	190	230	30	142
	5,5		395,5		840,5				255	30	157
	7,5		395,5		865,5				280	30	167
	11		466		936				280	30	232
	15		466		936				280	30	264
ASSL 150-250	11	DN150-DN150	466	670	946	355	315	180	300	30	238
	15		466		946				300	30	273
	18,5		519		999				300	30	294
	22		519		999				300	30	316
	30		555		1065				330	35	383
ASSL 150-315	15	DN150-DN150	466	380	981	380	390	210	305	30	275
	18,5		519		1034				305	30	318
	22		519		1034				305	30	345
	30		555		1100				335	35	419
	37		625		955				120	35	451

MANUFACTURER

SINGLE STAGE MONOBLOCK CENTRIFUGAL PUMPS

• They are single-stage, volute, closed impeller, monoblock, centrifugal pumps.

• Suction and discharge flanges comply with **TS EN 1092 - 2 / PN 16.**

• It is used with standard electric motors in accordance with VDI standards and IEC construction sizes.

• Thanks to the detachable design from the back, the motor, motor carrier, shaft seal without separating the volute from the piping
bearing and impeller can be removed.

• Axial force compensated by rear wear ring/balance holes system.

Application and Usage Areas

• ASTM pumps are non-abrasive, free of solid particles and fibers, clean or slightly dirty (solid particle ratio up to 0.02)

• Water supply, heating and cooling systems, circulation and fluid transfer, industrial applications.

• 0-400 m3/h Capacity Total Head 100m.

• Engine power up to 37kW

• Working Temperature up to 90 °C-Working Pressure 10 Bar

Pump - Motor Connection

• ASTM pumps are connected to a standard electric motor in B5 construction by means of a special adapter.

• Electric motors 380 V – 50 Hz. It is in IE3 and IP 55 protection class.

• Electric motors are suitable to be operated with frequency converter.

Shaft Sealing

• Uncooled and unbalanced type single mechanical seals that are washed with the pumped liquid are used.

Optional Features

• Selection of special mechanical seal depending on the type of liquid.

• AISI 316 pump shaft.

• Other motor protection classes

• Exproof motor (conforming to ATEX - 94/9 EEC directive)

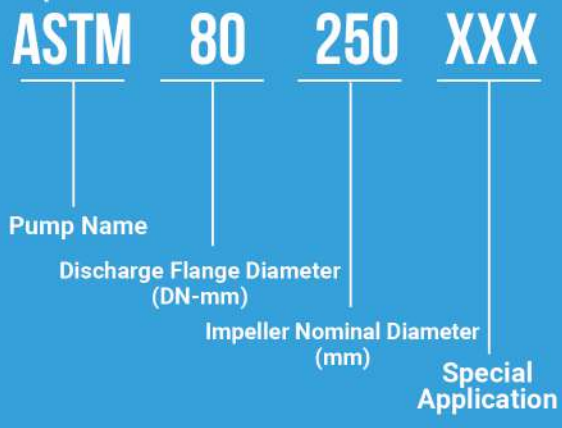
• 60 Hz. working well

TS EN 733 Norm Pumps

• Operating temperature between -10 + 1400C
• Ambient temperature up to 400C
• Max. suction height up to 7 m
• Max. head up to 100 m
• Body Pressure (Pmax)10 bar (16 bar)

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

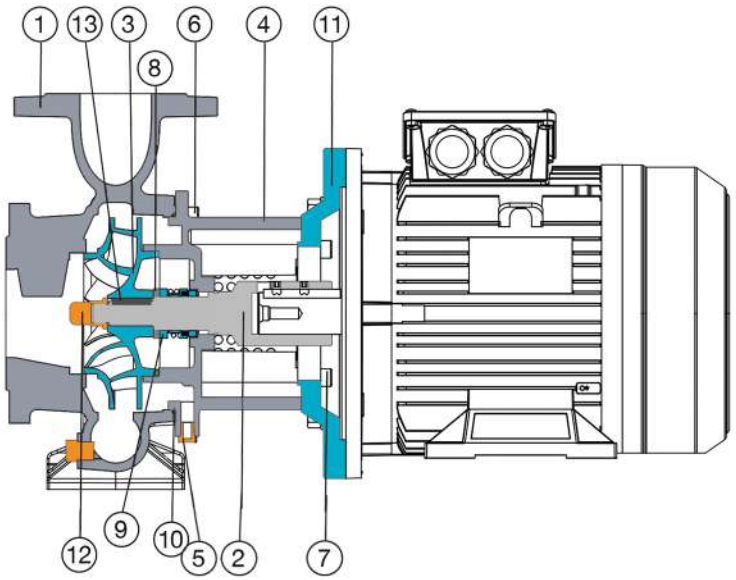
Pump Nomenclature in accordance with DIN 2533



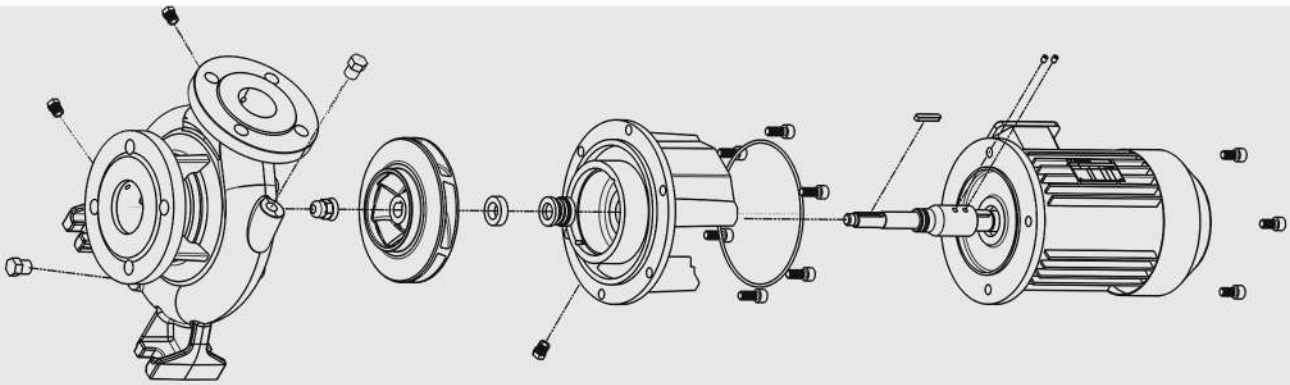
A list of materials

TRACK NAME	MATERIAL			
	Standard Production	Bronze Wheel	Complete Bronze	Stainless steel
Snail Body	GG 25	GG 25	Bronze	AISI 304-316
Wheel	GG 25	Bronze	Bronze	AISI 304-316
Wear Ring(*)	**	Bronze	Bronze	AISI 420
Pump Shaft	AISI 420	AISI 420	AISI 420	AISI 304-316

Section and Parts List



NO	PART NAME
1	In-Line Snail Body
2	Miles
3	Gears
4	Motor Carrier Adapter
5	Bleed Plug (Drain)
6	Imbus Bolts
7	Imbus Flange Bolts
8	Mechanical Seal Bushing
9	Mechanical Seal
10	O-Rings
11	Flange
12	Fan Nuts
13	Wedge

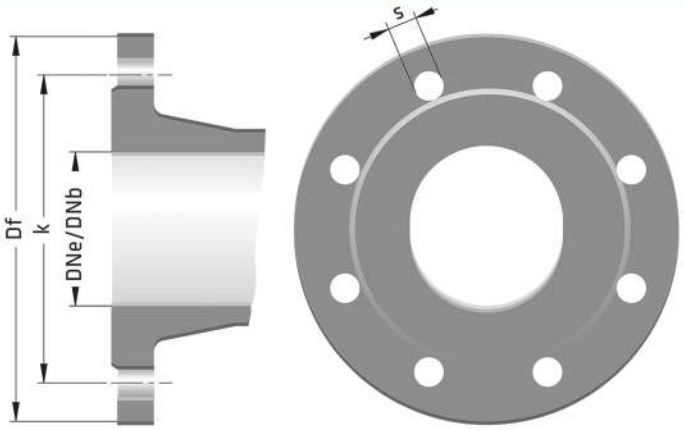


Flange Dimensions

TS EN 1092 - 2

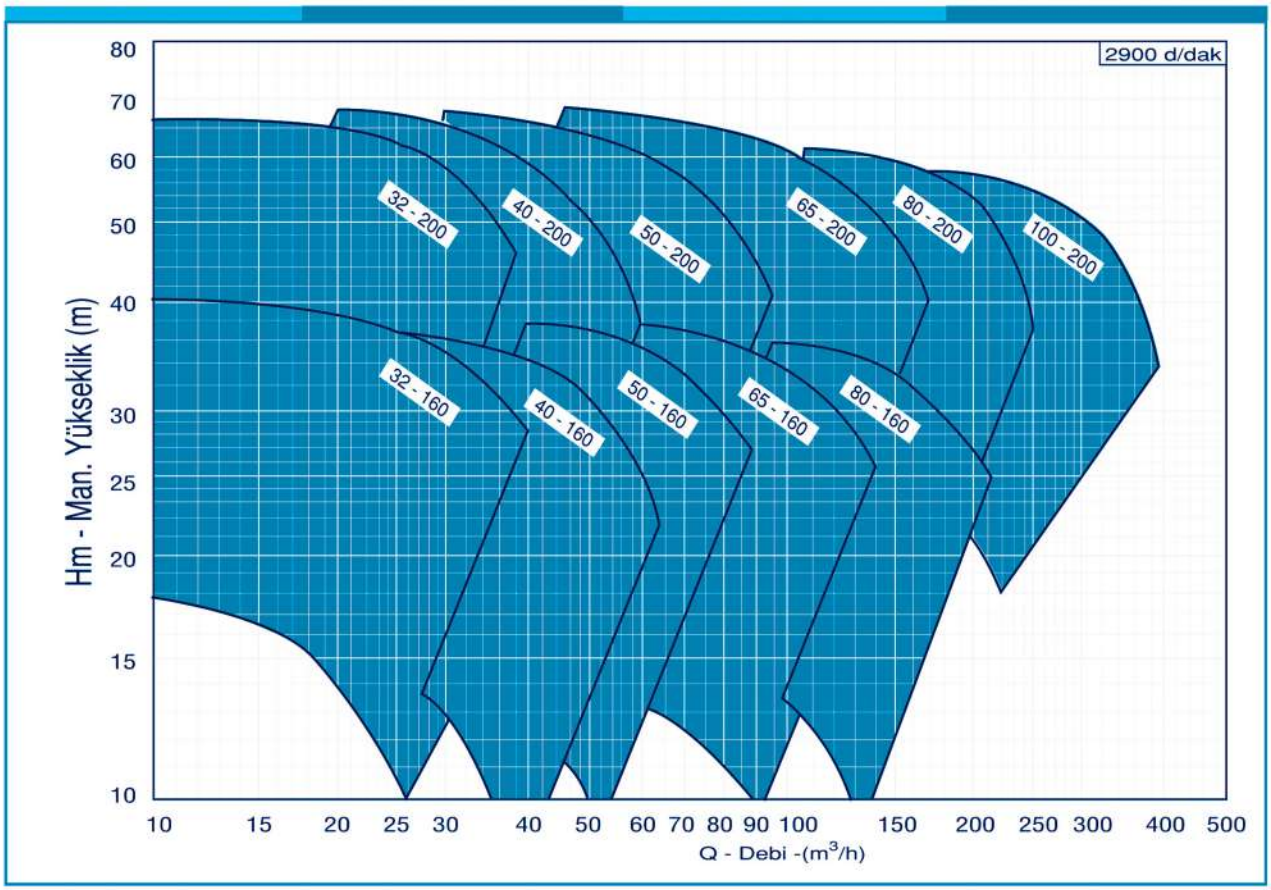
DNe / DNb	Suction & Discharge (PN 16)			
	Df	k	s	n
32	140	100	19	4
40	150	110	19	4
50	165	125	19	4
65	185	145	19	4
80	200	160	19	8
100	220	180	19	8
125	250	210	19	8
150	285	240	23	8
200	340	295	23	12

"n" number of holes

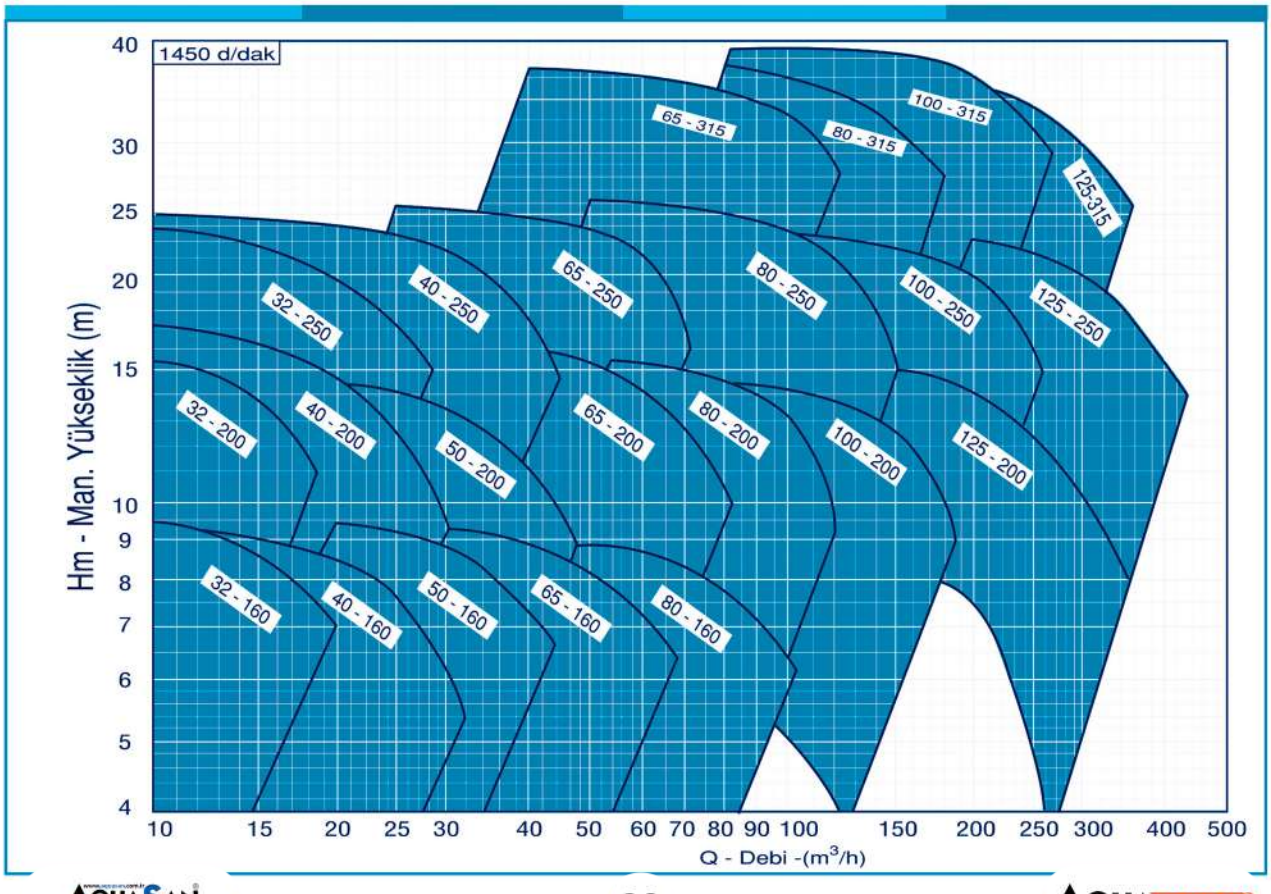


SINGLE STAGE MONOBLOCK CENTRIFUGAL PUMPS

WORKING AREA - ASTM (2900 RPM)

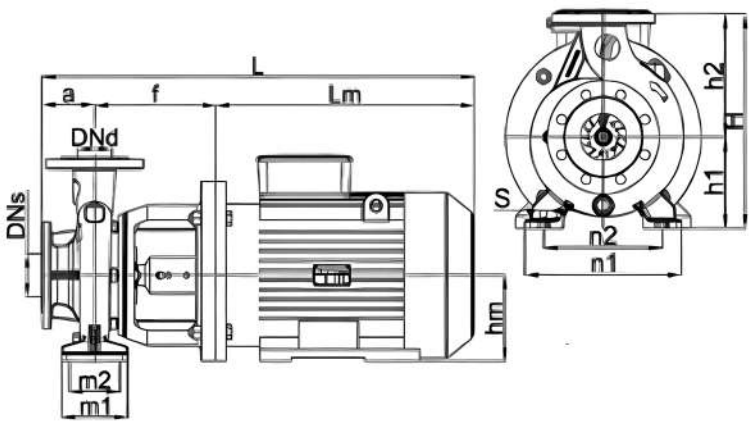


WORKING AREA - ASTM (1450 RPM)



General Size Chart

AQUA PUMP
PUMP AND BOOSTER SYSTEMS



2900 RPM

SINGLE STAGE MONOBLOCK CENTRIFUGAL PUMPS

Pump Type	KW	DN Flanges		Dimensions (mm)									Pump And Engine Weight	
		Suction	Discharge	Lm	L	a	h1	h2	n1	n2	m1	m2	f	kg
ASTM 32-160	1,5	32	50	250	490	80	132	160	240	190	100	70	160	44
ASTM 32-160	2,2			275	515	80							160	47
ASTM 32-160	3			275	535	80							180	57
ASTM 32-160	4			324	584	80							180	67
ASTM 32-160	5,5			324	604	80							200	77
ASTM 32-200	4	32	50	324	584	80	160	180	240	190	100	70	180	67
ASTM 32-200	5,5			324	609	80							205	83
ASTM 32-200	7,5			375	660	80							205	92
ASTM 32-200	11			484	794	80							230	156
ASTM 40-160	3	40	65	305	565	80	132	160	240	190	100	70	180	59
ASTM 40-160	4			324	584	80							180	68
ASTM 40-160	5,5			375	655	80							200	78
ASTM 40-160	7,5			375	655	80							200	84
ASTM 40-200	5,5	40	65	375	680	100	160	180	265	212	100	70	205	89
ASTM 40-200	7,5			375	680	100							205	95
ASTM 40-200	11			484	814	100							230	159
ASTM 40-200	15			484	814	100							230	170
ASTM 40-250	15	50	65	484	814	100	180	225	320	250	125	95	230	180
ASTM 40-250	18,5			528	858	100							230	195
ASTM 40-250	22			544	874	100							230	230
ASTM 40-250	30			582	912	100							230	256
ASTM 50-160	4	50	65	324	604	100	160	180	265	212	100	70	180	72
ASTM 50-160	5,5			324	624	100							200	82
ASTM 50-160	7,5			375	675	100							200	88
ASTM 50-160	11			484	784	100							200	108
ASTM 50-200	7,5	50	65	375	680	100	160	200	265	212	100	70	205	98
ASTM 50-200	11			484	814	100							230	162
ASTM 50-200	15			484	814	100							230	173
ASTM 50-200	18,5			528	858	100							230	188
ASTM 50-250	22	50	65	544	884	100	180	225	320	250	125	95	240	237
ASTM 50-250	30			544	884	100							240	275
ASTM 50-250	37			637	997	100							260	290
ASTM 65-160	7,5	65	80	375	685	100	160	200	280	212	125	95	210	94
ASTM 65-160	11			484	824	100							240	158
ASTM 65-160	15			484	824	100							240	169
ASTM 65-160	18,5			528	868	100							240	184
ASTM 65-200	15	65	80	484	814	100	180	225	320	250	125	95	230	182
ASTM 65-200	18,5			528	858	100							230	192
ASTM 65-200	22			544	874	100							230	234
ASTM 65-200	30			637	997	100							260	299
ASTM 65-200	37			637	997	100							260	319
ASTM 80-160	7,5	80	100	375	710	125	180	225	320	250	125	95	210	100
ASTM 80-160	11			484	849	125							240	164
ASTM 80-160	15			484	849	125							240	175
ASTM 80-160	18,5			528	893	125							240	190
ASTM 80-160	22			544	909	125							240	232
ASTM 80-200	22	80	100	544	919	125	180	250	345	280	125	95	250	246
ASTM 80-200	30			637	1042	125							280	312
ASTM 80-200	37			637	1042	125							280	332
ASTM 100-200	30	100	125	637	1032	125	200	280	360	280	160	120	270	324
ASTM 100-200	37			637	1032	125							270	344

1450 RPM

SINGLE STAGE MONOBLOCK CENTRIFUGAL PUMPS

Pump Type	KW	DN Flanges		Dimensions (mm)									Pump and Engine Weight	
		Suction	Discharge	Lm	L	a	h1	h2	n1	n2	m1	m2	f	kg
ASTM 32-160	0,55	32	50	233	473	80	132	160	240	190	100	70	160	41
ASTM 32-160	0,75			233	473	80							160	42
ASTM 32-200	0,55	32	50	233	473	80	160	180	240	190	100	70	160	45
ASTM 32-200	0,75			233	473	80							160	46
ASTM 32-200	1,1			250	490	80							160	49
ASTM 32-200	1,5			275	515	80							160	51
ASTM 32-250	0,55	32	50	289	559	100	180	225	320	250	125	95	170	45
ASTM 32-250	0,75			289	559	100							170	46
ASTM 32-250	1,1			313	583	100							170	49
ASTM 32-250	1,5			338	608	100							170	51
ASTM 32-250	2,2			375	605	100							190	51
ASTM 40-160	0,55	40	65	233	473	80	132	160	240	190	100	70	160	41
ASTM 40-160	0,75			233	473	80							160	42
ASTM 40-200	1,1			250	490	80							160	43
ASTM 40-200	0,55	40	65	233	493	100	160	180	265	212	100	70	160	48
ASTM 40-200	0,75			233	493	100							160	49
ASTM 40-200	1,1			250	510	100							160	52
ASTM 40-250	1,5			275	535	100							160	54
ASTM 40-250	1,5	40	65	275	555	100	180	225	320	250	125	95	180	68
ASTM 40-250	2,2			305	585	100							180	71
ASTM 40-250	3			305	585	100							180	74
ASTM 50-160	0,75	50	65	233	493	100	160	180	265	212	100	70	160	47
ASTM 50-160	1,1			250	510	100							160	50
ASTM 50-160	1,5			275	535	100							160	52
ASTM 50-200	0,75	50	65	233	493	100	160	200	265	212	100	70	160	54
ASTM 50-200	1,1			250	510	100							160	56
ASTM 50-200	1,5			275	535	100							160	58
ASTM 50-200	2,2			305	565	100							160	63
ASTM 50-250	2,2	50	65	305	620	100	180	225	320	250	125	95	215	72
ASTM 50-250	3			305	620	100							215	75
ASTM 50-250	4			324	639	100							215	83
ASTM 50-250	5,5			375	715	100							240	105
ASTM 65-160	0,75	65	80	233	503	100	160	200	280	212	125	95	170	52
ASTM 65-160	1,1			250	520	100							170	55
ASTM 65-160	1,5			275	545	100							170	57
ASTM 65-160	2,2			305	595	100							190	68
ASTM 65-200	2,2	65	80	305	585	100	180	225	320	250	125	95	180	69
ASTM 65-200	3			305	585	100							180	73
ASTM 65-200	4			324	604	100							180	81
ASTM 65-250	3	65	80	305	620	100	200	250	360	280	160	120	215	89
ASTM 65-250	4			324	639	100							215	97
ASTM 65-250	5,5			375	690	100							215	116
ASTM 65-250	7,5			413	728	100							215	124
ASTM 65-315	5,5	65	80	375	715	125	225	280	400	315	160	120	215	136
ASTM 65-315	7,5			413	753	125							215	144
ASTM 65-315	9			413	753	125							215	153
ASTM 65-315	11			484	849	125							240	213
ASTM 65-315	15			528	893	125							240	245
ASTM 80-160	1,1	80	100	250	535	125	180	225	320	250	125	95	160	61
ASTM 80-160	1,5			275	560	125							180	62
ASTM 80-160	2,2			305	610	125							180	75
ASTM 80-160	3			305	610	125							180	78
ASTM 80-200	2,2,	80	100	305	620	125	180	250	345	280	125	95	190	84
ASTM 80-200	3			305	620	125							190	84
ASTM 80-200	4			324	639	125							190	92
ASTM 80-200	5,5			375	715	125							215	115
ASTM 80-200	7,5			413	753	125							215	123
ASTM 80-200	9			413	753	125							215	132
ASTM 80-250	5,5	80	100	375	715	125	200	280	400	315	160	120		130
ASTM 80-250	7,5			413	753	125							215	138
ASTM 80-250	11			484	849	125							240	214
ASTM 80-250	15			528	893	125							240	246
ASTM 80-315	11	80	100	484	849	125	250	315	400	315	160	120	240	222
ASTM 80-315	15			528	893	125							240	254
ASTM 80-315	18,5			528	893	125							240	274
ASTM 80-315	22			582	947	125							240	299
ASTM 100-200	3	100	125	305	620	125	200	280	360	280	160	120	190	95,7
ASTM 100-200	4			324	639	125							190	104
ASTM 100-200	5,5			375	715	125							215	127
ASTM 100-200	7,5			413	753	125							215	135
ASTM 100-200	9			413	753	125							215	144
ASTM 100-250	5,5	100	125	375	730	140	225	280	400	315	160	120	215	135
ASTM 100-250	7,5			413	768	140							215	143
ASTM 100-250	11			484	864	140							240	218
ASTM 100-250	15			528	908	140							240	250
ASTM 100-250	18,5			544	924	140							240	270
ASTM 100-315	18,5	100	125	544	924	140	250	315	400	315	160	120	240	283
ASTM 100-315	22			582	962	140							240	308
ASTM 100-315	30			637	1042	140							265	386
ASTM 100-315	37			637	1042	140							265	406

SINGLE STAGE MOTORIZED CENTRIFUGAL PUMPS

• Horizontal shaft, volute, single-stage, end-suction, closed impeller centrifugal pumps.

• Nominal operating points and main dimensions comply with **TS EN 733** standards.

• Possibility to disassemble the bearing group, stuffing box, pump shaft and impeller without separating the volute from the piping, thanks to the detachable design from the rear.

Application and Usage Areas

• These pumps are suitable for low-viscosity liquids that are not abrasive, free of solid particles and fibers, clean or slightly dirty (solid particle ratio up to 0.02).

• For water supply, circulation for heating and cooling, for construction and industrial water supply and for agricultural irrigation, for fire fighting purposes

Pump - Motor Connection

• ASTP pumps are connected to a standard electric motor in B3 construction by means of a flexible coupling.

• Electric motors 380 V – 50 Hz. It is in IE3 and IP 55 protection class.

• Electric motors are suitable to be operated with frequency converter.

Shaft Sealing

• Soft packing is used in standard manufacturing pumps. However, upon request or depending on the type of liquid and working conditions, pumps with mechanical seals can also be manufactured.

• In pumps with mechanical seal, the shaft is made of stainless steel types.

Optional Features

• Selection of special mechanical seal depending on the type of liquid.

• AISI 316 pump shaft.

• Other motor protection classes

• Exproof motor (conforming to ATEX - 94/9 EEC directive)

TS EN 733 Norm Pumps

• Operating temperature between -10 + 1400C
• Ambient temperature up to 400C
• Max. suction height up to 7 m
• Max. head up to 100 m
• Body Pressure (Pmax)10 bar (16 bar)

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

Pump Nomenclature in accordance with DIN 2533

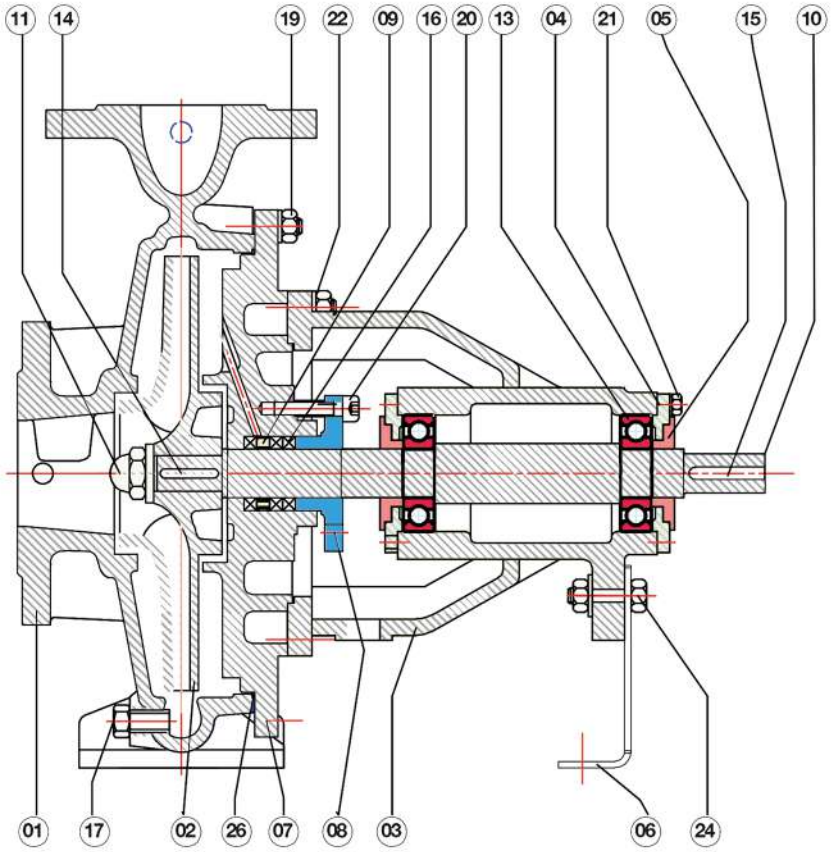
ASTP 80 200 XXX

- ASTP — Pump Name
- 80 — Discharge Flange Diameter (DN-mm)
- 200 — Impeller Nominal Diameter (mm)
- XXX — Special Application

A list of materials

TRACK NAME	MATERIAL					
	Standard Production	Bronze Wheel	Complete Bronze	Ductile Iron	Steel Casting	Stainless Steel
Snail Body	GG 25	GG 25	Bronze	GGG 50	GS 45	AISI 304-316
Packing Bearing	GG 25	GG 25	Bronze	GGG 50	GS 45	AISI 304-316
Wheel	GG 25	Bronze	Bronze	GGG 50	GS 45	AISI 304-316
Glen	GGG 40	Bronze	Bronze	Bronze	Bronze	AISI 304-316
AshTNLa Ring(*)	Bronze	GG 25	Bronze	GG 25	Bronze	X20Cr13
Pump Shaft	X20Cr13	X20Cr13	X20Cr13	X20Cr13	X20Cr13	AISI 304-316
Spindle Movan(*)	X20Cr13	X20Cr13	X20Cr13	X20Cr13	X20Cr13	X20Cr13
Bearing Housing	GG 25	GG 25	GG 25	GG 25	GG 25	GG 25
Bed Cover	GG 25	GG 25	GG 25	GG 25	GG 25	GG 25

Section and Parts List



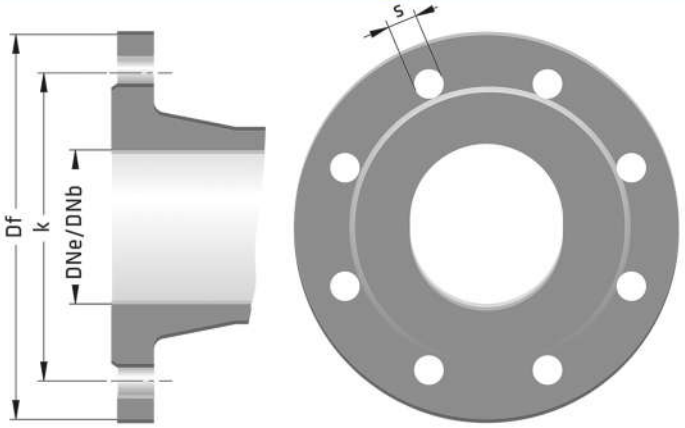
NO	PART NAME
1	Snail Body
2	Gears
3	Bearings
4	Bearing Cover
5	Water Trench
6	Carrier Console
7	Stuffing Box
8	Gland Packing
9	Watering Ring
10	Miles
11	Impeller Nut
12	Splash Discs Bearing
13	6308 2RS 3C
14	Wedge
15	Coupling Key
16	Packing
17	Plugs
18	Plugs
19	Body Stud
20	Glen Studs
21	Hexagonal Bolt
22	Hexagonal Bolt
23	Hexagon Bolt
24	Nuts
25	Glen Nuts
26	O-Rings
27	Enclosure

Flange Dimensions

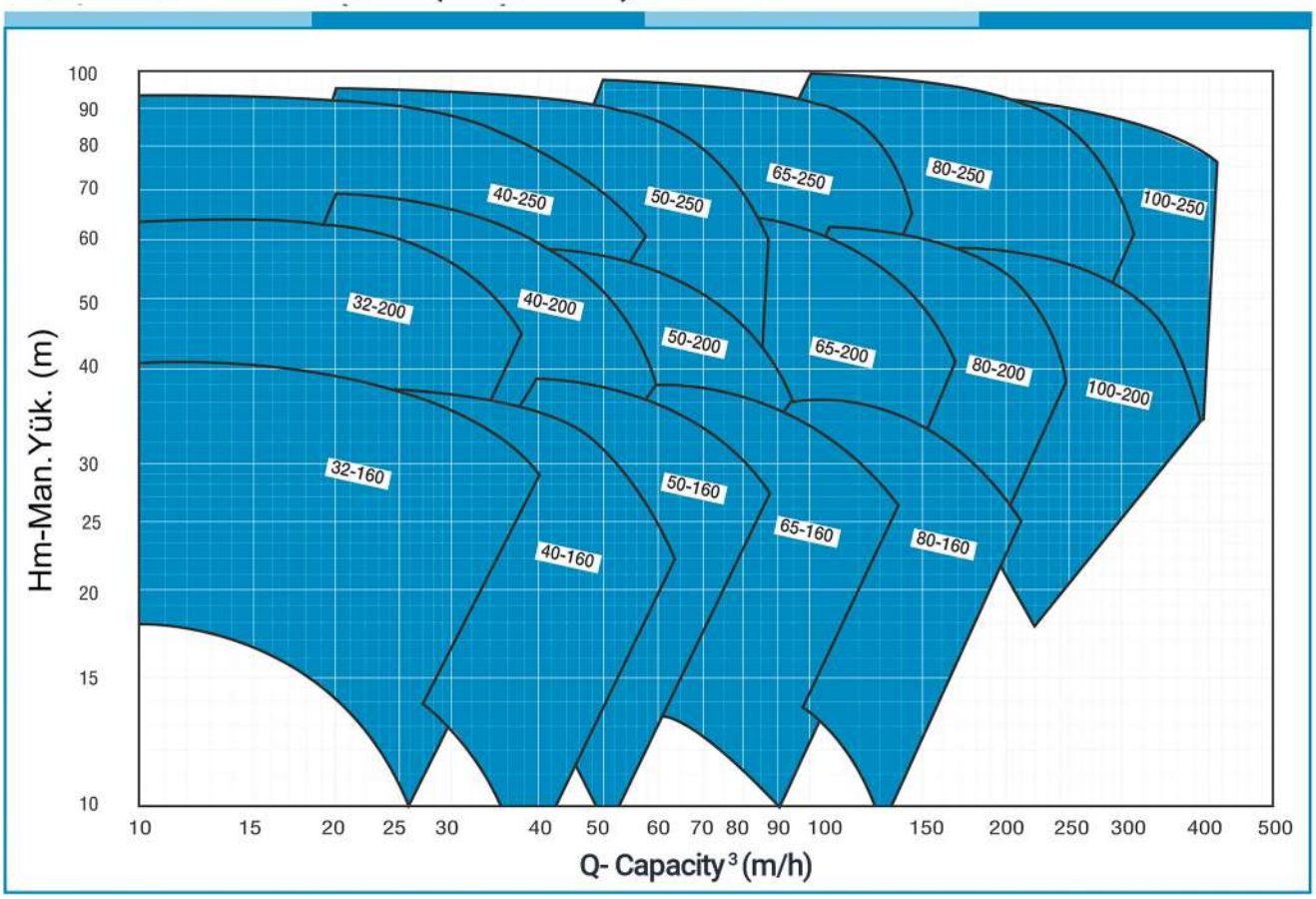
TS EN 1092 - 2

DNe / DNb	Suction & Discharge (PN 16)			
	Df	k	s	n
32	140	100	19	4
40	150	110	19	4
50	165	125	19	4
65	185	145	19	4
80	200	160	19	8
100	220	180	19	8
125	250	210	19	8
150	285	240	23	8
200	340	295	23	12

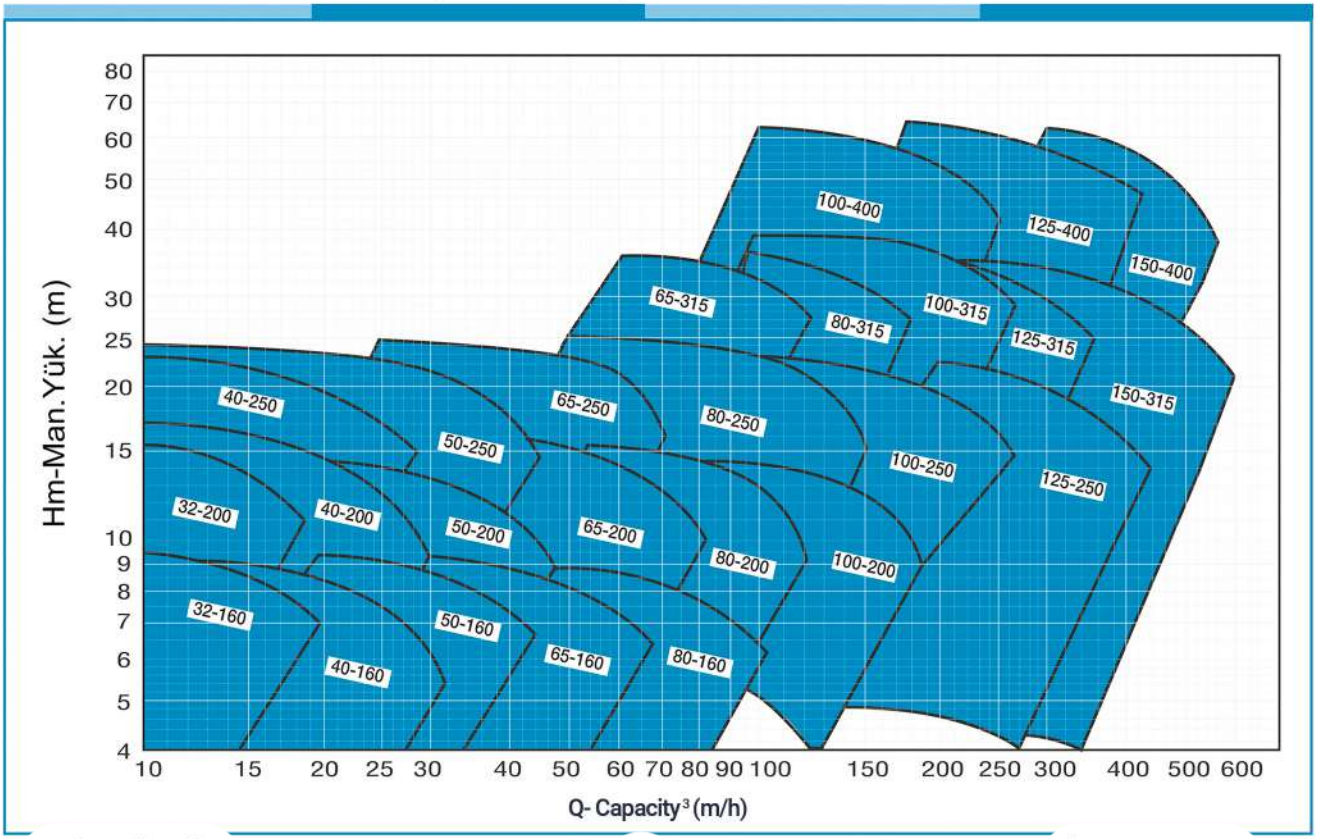
"n" number of holes



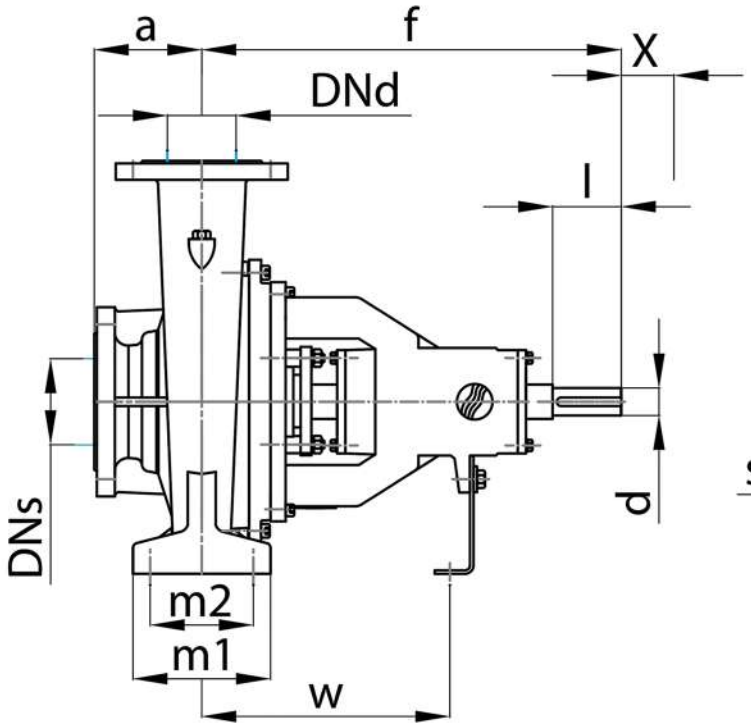
WORKING AREA - ASTP (2900 RPM)

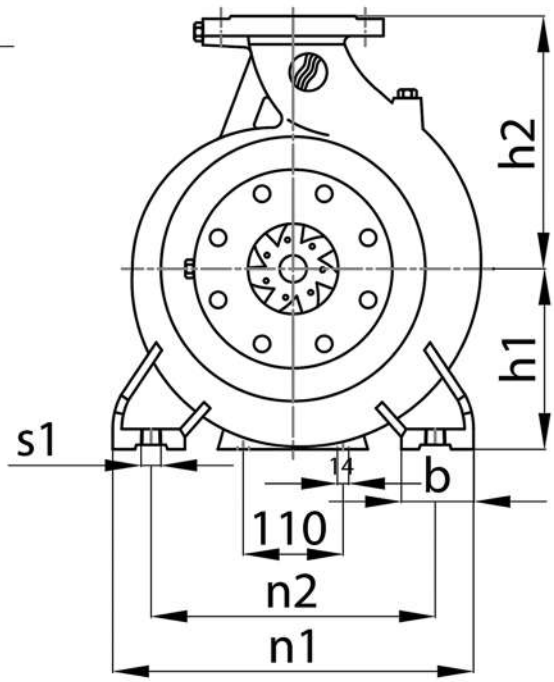


WORKING AREA - ASTP (1450 RPM)



General Size Chart





Pump Types		Flange Dimensions		External Dimensions				Pump Foot Connection Dimensions							Shaft Dimensions		Connection the gap	
EN 733	Norm Female	DNs	DNd	a (mm)	f (mm)	h1 (mm)	h2 (mm)	b (mm)	m1 (mm)	m2 (mm)	n1 (mm)	n2 (mm)	s1 (mm)	W (mm)	d (mm)	l (mm)	x (mm)	Weight (wt)
ASTP 32-160		50	32	80	360	132	160	50	100	70	240	190	M12	260	24	50	65	38
ASTP 32-200				80	360	160	180	50	100	70	240	190	M12	260	24	50	65	41
	32-250			100	360	180	225	65	125	95	320	250	M12	260	24	50	80	46
ASTP 40-160		65	40	80	360	132	160	50	70	70	240	190	M12	260	24	50	75	39
ASTP 40-200				100	360	160	180	50	70	70	265	212	M12	260	24	50	75	45
ASTP 40-250				100	360	180	225	65	96	95	320	250	M12	260	24	80	75	54
ASTP 50-160		65	50	100	360	160	180	50	70	70	265	212	M12	260	24	50	80	42
ASTP 50-160				100	360	160	200	50	70	70	265	212	M12	260	24	50	85	47
ASTP 50-250				100	360	180	225	65	95	95	320	250	M12	260	24	50	85	55
	50-315	80		125	470	225	280	65	95	120	360	280	M16	330	32	80	100	103
ASTP 65-160		80	65	100	360	160	200	65	95	95	280	212	M12	260	24	50	100	44
ASTP 65-200				100	360	180	225	65	95	95	320	250	M12	260	24	50	100	48
ASTP 65-250				100	470	200	250	80	120	120	360	280	M16	340	32	80	100	78
ASTP 65-315				125	470	225	280	80	120	120	400	315	M16	340	32	80	110	93
	65-400	100		125	470	250	355	80	120	120	400	315	M16	340	32	80	110	126
ASTP 80-160		100	80	125	360	180	225	65	95	95	320	250	M12	260	24	50	110	52
ASTP 80-200				125	470	180	250	65	95	95	345	280	M12	340	32	80	110	77
ASTP 80-250				125	470	200	280	80	120	120	400	315	M16	340	32	80	115	94
ASTP 80-315				125	470	250	315	80	120	120	400	315	M16	340	32	80	120	108
	80-400			125	540	280	355	100	150	150	500	400	M20	370	42	110	120	163
	100-160			125	360	200	280	80	160	120	360	280	M16	260	24	50	120	75
ASTP 100-200		125	100	125	470	200	280	80	160	120	360	280	M16	340	32	80	120	84
ASTP 100-250				140	470	225	280	80	160	120	400	315	M16	340	32	80	130	96
ASTP 100-315				140	470	250	315	80	160	120	400	315	M16	340	32	80	130	112
ASTP 100-400				140	530	280	315	100	200	150	500	400	M20	370	42	110	130	170
	125-200	150	125	140	470	250	315	80	160	120	400	315	M16	340	32	80	130	107
ASTP 125-250				140	470	250	355	80	160	120	400	315	M16	340	32	80	140	108
ASTP 125-315				140	530	280	355	100	200	150	500	400	M20	370	42	110	140	168
ASTP 125-400				140	530	315	400	100	200	150	500	400	M20	370	42	110	140	192

BOOSTER GROUP

Specially de-signed for in-dustrial and domestic needs systems

The quality of our products and quality management systems have been documented with CE, TSE, TSEK certificates.

With our **AQUASAN** brand, in our factory in Malatya 1st Organized Industrial Zone; All of the pump booster, fire booster systems and fire cabinets are produced in our own facilities.

FIRE BOOSTER SYSTEMS

500 m³/ UP TO
DEBİ

It is high pressure, quiet running, compact and low power consumption.

160 m UP TO
DISCHARGE HEAD

It is suitable for printing clean or slightly dirty, low viscosity liquids that are non-abrasive, free of solid particles and fibers.

INDUSTRY | HOSPITALS | SITES | HOUSES | SCHOOLS | BUILD

COMPATIBLE WITH TS EN 12845 AND NFPA 20 NORMS+ AQUASAN

We manufacture Fire Pump groups in accordance with **NFPA 20 and TS EN 12845** Turkish Fire Regulations. **NFPA 20** [National Fire Protection Association] Standard is a known standard used in fire extinguishing systems that defines "fire pump groups and installations" for fire protection. The pumps used comply with the **NFPA 20** Standard and are not listed.

FİRE BOOSTERS

AQUASAN designs and manufactures various types of pumps required by the industry.

Fire-fighting booster sets (FFS) are compact, easy-to-use, pre-assembled fire prevention and fire-fighting systems used for pressurizing all kinds of fire systems, equipped with automation, control and alarm facilities.

The main system can consist of electric motor main pump or diesel motor main pump and electric motor jockey pump configurations. Pump types used in fire boosters can be divided into Norm-Monoblock.

It can be in the form of casing-horizontal type multistage centrifugal pumps. The control panel of each pump (electric or diesel main pumps and electric jockey pump) in the system is independent.

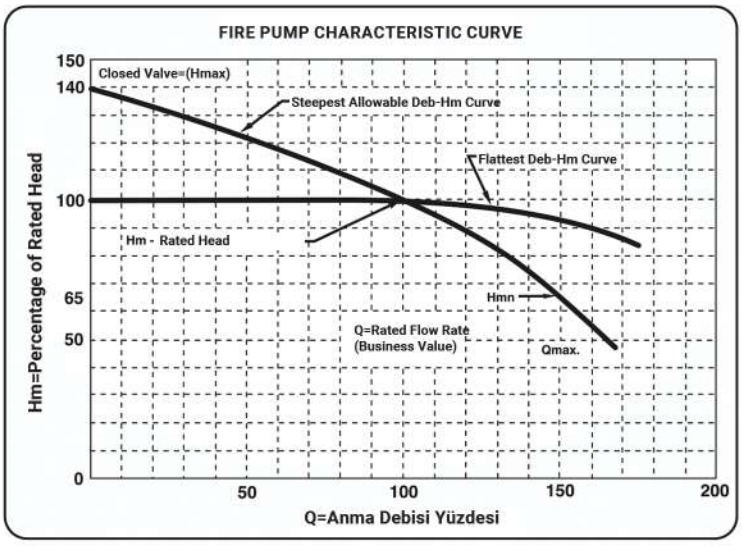
■ Types of Fire Boosters

- Horizontal Shaft Centrifugal Pump
- Horizontal Shaft Double Suction Centrifugal Pump
- Horizontal Shaft Double Stage Pump
- Jockey Pumps

■ Conforms to NFPA 20 Norm

NFPA 20 [National Fire Protection Association] Standard is a known standard used in fire extinguishing systems that defines "fire pump groups and installations" for fire protection. The pumps used comply with the NFPA 20 Standard and are not listed.

■ Fire Pump Characteristic Curve



NFPA 20 Norm Pumps

• **Snail**	Cast Iron
• **Impeller, Wear Ring**	Bronze
• **Spindle**	Stainless steel
• **Shaft Cover**	Stainless steel
• **Packing**	Teflon package - Mechanical
• **Bearing**	FAG/SKF Grease Lubricated
• **Operating temperature**	-10 0C - + 120 0C

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

The curve [Q]/ Head [Hm] should be as flat as possible. In this way, as the water demand increases, there will not be much pressure drop and the pressure needed at the inlet of the sprinkler will be provided continuously. shall not be less than 65% of the [rated] value.

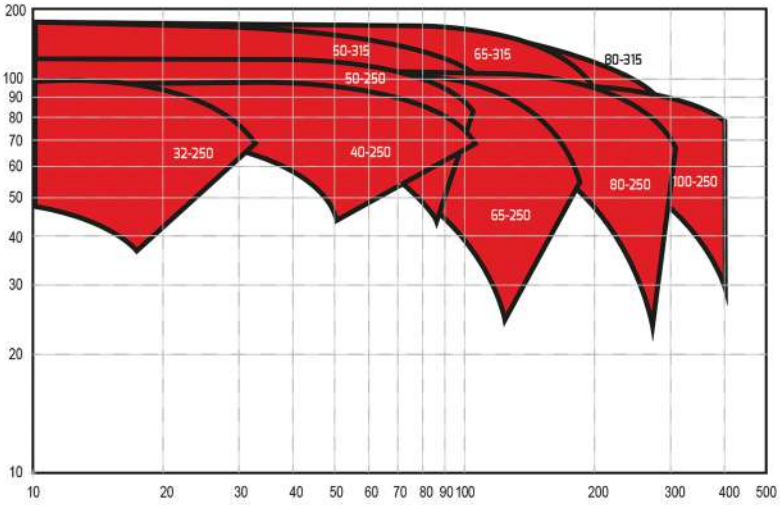
The value of Qmax in the pump curve shall not be less than 150% of the operating [rated] value. In the pump curve, the Hmax pressure value of the pump at the closed valve will not be more than 140% of the pressure value at the operating value.

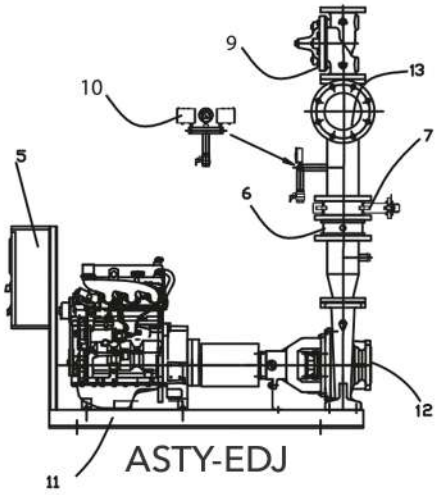
Fire Pump Features and Components

We manufacture Fire Pump groups in accordance with NFPA 20 AND TSE EN 12485 Turkish Fire Regulations with the pumps in our current product portfolio. Our pumps in different series are used as the main fire pump.

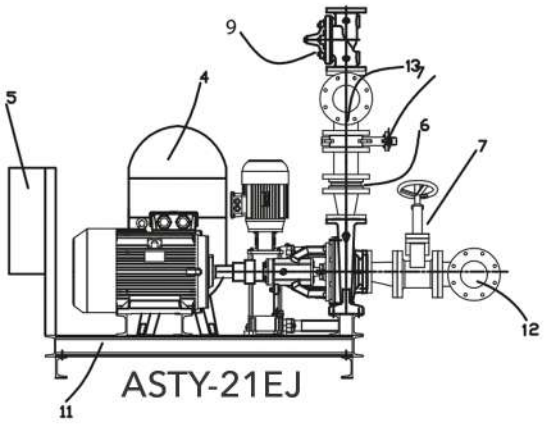
The most suitable pump for the required flow and head is selected and delivered to the customers as a pre-assembled motor pump group.

Fire pump system is formed with Diesel-Electric motor or two electric motors. The Fire pump system is equipped with a jockey pump to keep the system pressure or to keep the system pressurized against small leaks.





ASTY-EDJ



ASTY-21EJ

FIRE GROUP COMPONENTS
1- Main Pump
2- Backup Pump
3- Jockey Pump
4- Balance Tank
5- Fire Group Board
6- Check Valve
7- Valve
8- Manometer
9- Relief Valve
10- Pressure Switch
11- Chassis
12- Suction Collector
13- Compression Collector

Fire Pump Panel Features

STANDARD FIRE PANEL FEATURES
1- 2 lines 16 bit LCD display
2- Operation with a pressure switch or pressure controller
3- Pressure switch entry and exit time setting
4- Phase-phase, phase-neutral indicator
5- Pump working hours
6- Solenoid output
7- Automatic test
8- Actual date and time
9- High and low voltage protection
10- Two phase and phase direction protection
11- Voice keypad and LED illuminated operation and fault indication
12- English language option
13- Energy main breaker
14- Schneider, ABB, Lovato or equivalent switchgear

FIRE PANEL FEATURES ACCORDING TO NFPA 20
1- Panel metal red color (locked type)
2- Pressure contacts are normally open circuit. Contacts closed disabled
3- Real time and date
4- Keeping the pump operating hours in total memory
5- Real time and date test feature
6- Delayed stop after the pump has stopped
7- Two phase and phase direction protection
8- Selection of a large size of contactor
9- Main cutter 15% large size selection
10- Automatic and manual operation in case of pressure requirement
11- Stopping when the stop button is pressed, but continuing to work when pressure is n
12- Solenoid valve output
13- Do not intervene after the panel cover is opened to change the operating values.
14- Changeover relay works dry contact
15- Inverter relay fault output dry contact
16- Inverter relay is energized, dry contact output
17- Phase error, phase sequence error on the front screen, pump is on, contactor is on, pressure inlet, automatic, manual LED light indicator
18- Working warning with light and siren in test and working condition
19- Energy main breaker from inside the panel
20- Remote start (moved to terminal)
21- Control circuit, cable numbering

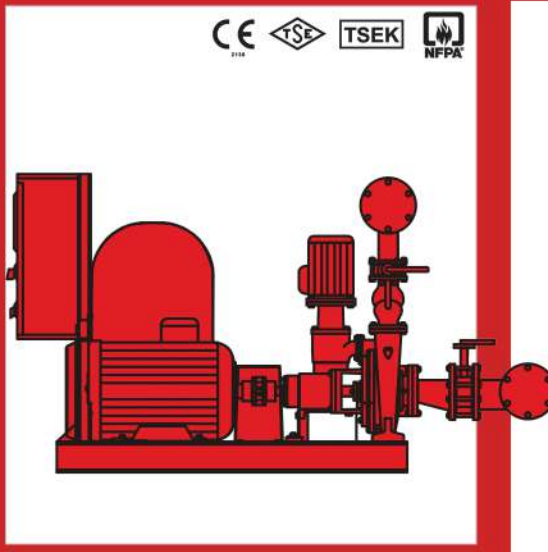
ASTY-21EJ FIRE PUMP SYSTEMS

2 ELECTRIC 1 JOCKEY PUMP

ASTY-21EJ Fire Pump Systems consist **of 2 electric motors** (horizontal shaft centrifuge - 1 main and 1 backup pump) and jockey pump. Jockey pump is to meet the leaks in the line. If the **jockey pump** does not meet the leakage in the line, the main pump is activated and provides the line pressure of the fire extinguishing system.

ASTY-21EJ Fire Pump Systems are ready-to-use fire systems with inlet and outlet valves, check valve, common chassis, suction and discharge collectors, control panels in accordance with NFPA 20 or Turkish Fire Regulations, and weekly automatic test system.

Model-Pump	Jockey Pump	Power (KW)			Average Capacity		Maximum Capacity	
		Main Pump	Spare Pump	Jockey Pump	m3/h(GPM)	m	m3/h(GPM)	m
ASTY-2E1J 32-250	ASN 80-1011	7,5	7,5	1,5	11,4 (50)	60	17,1 (75,3)	55
ASTY-2E1J 32-250	ASN 80-1011	11	11	1,5		75		70
ASTY-2E1J 32-250	ASN 80-1012	15	15	1,5		85		80
ASTY-2E1J 32-250	ASN 80-1012	18,5	18,5	1,5		95		90
ASTY-2E1J 40-250	ASN 90-2008	15	15	3	22,7 (100)	75	34,1 (150,2)	70
ASTY-2E1J 40-250	ASN 90-2008	18,5	18,5	3		85		80
ASTY-2E1J 40-250	ASN 90-2009	22	22	3		95		90
ASTY-2E1J 40-250	ASN 90-2009	30	30	3		105		100
ASTY-2E1J 50-250	ASN 90-2008	22	22	3	45,4 (200)	60	68,1 (300)	55
ASTY-2E1J 50-250	ASN 90-2008	30	30	3		75		70
ASTY-2E1J 50-250	ASN 90-2009	37	37	3		95		90
ASTY-2E1J 50-250	ASN 90-2009	45	45	3		105		100
ASTY-2E1J 50-250	ASP 416	45	45	3	45,4 (200)	115-120	68,1 (300)	110
ASTY-2E1J 50-250	ASP 416	55	55	3		125-130		120
ASTY-2E1J 65-250	ASN 90-2008	30	30	3	68,1 (300)	60	102,2 (450)	55
ASTY-2E1J 65-250	ASN 90-2008	37	37	3		75		65
ASTY-2E1J 65-250	ASN 90-2009	45	45	3		85		80
ASTY-2E1J 65-250	ASN 90-2009	55	55	3		95		90
ASTY-2E1J 65-250	ASP 814	55	55	5,5	68,1 (300)	115-120	102,2 (450)	105
ASTY-2E1J 65-250	ASP 814	75	75	5,5		125-130		110
ASTY-2E1J 65-250	ASN 90-2008	45	45	3	91(400)	80	136 (600)	60
ASTY-2E1J 65-250	ASN 90-2009	55	55	3		90		75
ASTY-2E1J 65-250	ASN 90-2009	55	55	3		100		85
ASTY-2E1J 65-250	ASP 416	55	55	3	91(400)	115-120	136 (600)	110
ASTY-2E1J 65-250	ASP 416	75	75	3		125-130		120
ASTY-2E1J 80-250	ASN 90-2008	45	45	5,5	113,6 (500)	65	170,4 (750)	55
ASTY-2E1J 80-250	ASN 90-2008	55	55	5,5		70		65
ASTY-2E1J 80-250	ASN 90-2009	75	75	5,5		85		80
ASTY-2E1J 80-250	ASN 90-2009	90	90	5,5		100		95
ASTY-2E1J 80-250	ASP 814	75	75	5,5		110		105
ASTY-2E1J 80-250	ASP 814	90	90	5,5	113,6 (500)	120	170,4 (750)	110
ASTY-2E1J 80-250	ASP 814	110	110	5,5		130		125
ASTY-2E1J 100-250	ASN 100-3006	75	75	5,5	170,4 (750)	80	255 (1125)	70
ASTY-2E1J 100-250	ASN 100-3006	90	90	5,5		90		80
ASTY-2E1J 100-250	ASN 100-3006	110	110	5,5		95		90
ASTY-2E1J 100-250	ASP 814	110	110	5,5	170,4 (750)	110	255 (1125)	110
ASTY-2E1J 100-250	ASP 814	132	132	5,5		120		120



NFPA 20 Norm Pumps

- **Snail :** (Pig Cast)
- **Impeller, Wear Ring :** (Bronze)
- **Shaft :** (Stainless Steel)
- **Shaft Cover :** (Stainless Steel)
- **Packing:** (Teflon package - Mechanical)
- **Bearing :** (FAG/SKF Grease Lubricated)
- **Operating Temperature:** (-10 0C - + 120 0C)

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

Aquasan Pump Nomenclature

ASTY 2E1J 80 160

- ASTY — Pupm Name
- 2E1J — 2 Electric, 1 Jockey Pump
- 80 — Discharge Flange Diameter (DN-mm)
- 160 — Impeller Nominal Diameter (mm)

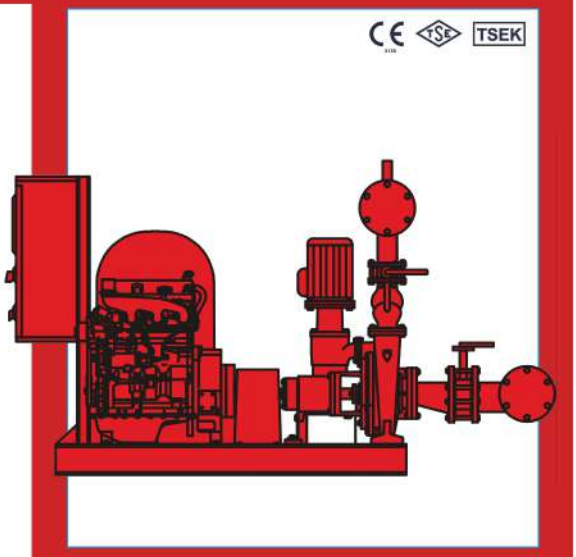
ASTY-EDJ YANGIN POMPA SİSTEMLERİ

1 ELECTRIC, 1 DIESEL, 1 JOKEY PUMP

ASTY-EDJ Fire Pump Systems consist of **1 electric motor fire pump, 1 diesel engine (backup pump) and jockey pump.** Jockey pump is to meet the leaks in the line. If the jockey pump does not meet the leakage in the line, the main pump is activated and provides the line pressure of the fire extinguishing system.

ASTY-EDJ Fire Pump Systems are ready-to-use fire systems with inlet and outlet valves, check valves, common chassis, suction and discharge collectors, control panels in accordance with NFPA 20 or Turkish Fire Regulations, and weekly automatic test system.

Model-Pump	Jockey Pump	Power (KW)			Average Capacity		Maximum Capacity	
		Main Pump	Spare Pump	Jockey Pump	m3/h(GPM)	m	m3/h(GPM)	m
ASTY-EDJ 32-250	ASN 80-1011	7,5	8,8	1,5	11,4 (50)	60	17,1 (75,3)	55
ASTY-EDJ 32-250	ASN 80-1011	11	13	1,5		75		70
ASTY-EDJ 32-250	ASN 80-1012	15	20	1,5		85		80
ASTY-EDJ 32-250	ASN 80-1012	18,5	20	1,5		95		90
ASTY-EDJ 40-250	ASN 90-2008	15	20	3	22,7 (100)	75	34,1 (150,2)	70
ASTY-EDJ 40-250	ASN 90-2008	18,5	20	3		85		80
ASTY-EDJ 40-250	ASN 90-2009	22	26	3		95		90
ASTY-EDJ 40-250	ASN 90-2009	30	34	3		105		100
ASTY-EDJ 50-250	ASN 90-2008	22	26	3	45,4 (200)	60	68,1 (300)	55
ASTY-EDJ 50-250	ASN 90-2008	30	34	3		75		70
ASTY-EDJ 50-250	ASN 90-2009	37	42	3		95		90
ASTY-EDJ 50-250	ASN 90-2009	45	42	3		105		100
ASTY-EDJ 50-250	ASP 416	45	42	3	45,4 (200)	115-120	68,1 (300)	110
ASTY-EDJ 50-250	ASP 416	55	68	3		125-130		120
ASTY-EDJ 65-250	ASN 90-2008	30	34	3	68,1 (300)	60	102,2 (450)	55
ASTY-EDJ 65-250	ASN 90-2008	37	42	3		75		65
ASTY-EDJ 65-250	ASN 90-2009	45	42	3		85		80
ASTY-EDJ 65-250	ASN 90-2009	55	68	3		95		90
ASTY-EDJ 65-250	ASP 814	55	68	5,5	68,1 (300)	115-120	102,2 (450)	105
ASTY-EDJ 65-250	ASP 814	75	98	5,5		125-130		110
ASTY-EDJ 65-250	ASN 90-2008	45	42	3	91(400)	80	136 (600)	60
ASTY-EDJ 65-250	ASN 90-2009	55	68	3		90		75
ASTY-EDJ 65-250	ASN 90-2009	55	68	3		100		85
ASTY-EDJ 65-250	ASP 416	55	68	3	91(400)	115-120	136 (600)	110
ASTY-EDJ 65-250	ASP 416	75	98	3		125-130		120
ASTY-EDJ 80-250	ASN 90-2008	45	42	5,5	113,6 (500)	65	170,4 (750)	55
ASTY-EDJ 80-250	ASN 90-2008	55	68	5,5		70		65
ASTY-EDJ 80-250	ASN 90-2009	75	68	5,5		85		80
ASTY-EDJ 80-250	ASN 90-2009	90	98	5,5		100		95
ASTY-EDJ 80-250	ASP 814	75	98	5,5		110		105
ASTY-EDJ 80-250	ASP 814	90	98	5,5	113,6 (500)	120	170,4 (750)	110
ASTY-EDJ 80-250	ASP 814	110	109	5,5		130		125
ASTY-EDJ 100-250	ASN 100-3006	75	98	5,5	170,4 (750)	80	255 (1125)	70
ASTY-EDJ 100-250	ASN 100-3006	90	98	5,5		90		80
ASTY-EDJ 100-250	ASN 100-3006	110	109	5,5		95		90
ASTY-EDJ 100-250	ASP 814	110	109	5,5	170,4 (750)	110	255 (1125)	110
ASTY-EDJ 100-250	ASP 814	132	145	5,5		120		120



TS EN 12485 Norm Pumps

- **Snail :** (Pig Cast)
- **Impeller, Wear Ring :** (Bronze)
- **Shaft :** (Stainless Steel)
- **Shaft Cover :** (Stainless Steel)
- **Packing :** (Teflon package - Mechanical)
- **Bearing :** (FAG/SKF Grease Lubricated)
- **Operating Temperature:** (-10 0C - + 120 0C)

AQUA PUMP
PUMP AND BOOSTER SYSTEMS

Aquasan Pump Nomenclature

ASTY EDJ 80 160

- ASTY — Pupm Name
- EDJ — 2 Electric, 1 Jockey Pump
- 80 — Discharge Flange Diameter (DN-mm)
- 160 — Impeller Nominal Diameter(mm)

EXPANSION TANKS

Specially designed for industrial and domestic needs systems

The quality of our products and quality management systems have been documented with CE, TSE, TSEK certificates.

With our **AQUASAN** brand, in our factory in Malatya 1st Organized Industrial Zone; All of the pump booster, fire booster systems and fire cabinets are produced in our own facilities.

CLOSED EXPANSION TANKS

5000 lit up to
VOLUME

It is offered to our customers in the volume range from 50 lit to 5000 lit.

16 bar
MAX OPERATING PRESSURE

Aquasan Genleşme Tankları, Standart olarak 10 bar ve 16 bar işletme basıncında üretilmektedir..

INDUSTRY | HOSPITALS | SITES | HOUSES | SCHOOLS | BUILD

COMPATIBLE WITH TS EN 13831 AND 2014/68/EU NORMS+ AQUASAN

Our tanks are CE certified according to the **2014/68/EU** Pressure Equipment Directive. Our tanks are produced according to **TS EN 13831**. It provides ease of selection with its wide range of production. Replaceable type EPDM membrane is used in our tanks. The operating temperature is between **-10 oC and +110 oC.** It is covered with Electrostatic Powder - Coating powder paint. It is resistant to scratching, impact and corrosion.

CLOSED EXPANSION TANKS

AQUASAN, Expansion Tanks are **CE** certified according to the **2014/68/EU** Pressure Equipment Directive. Our tanks are produced according to **TS EN 13831.** Our tanks can be used in both heating and booster systems. It can balance the changing water volume depending on the change in temperature in heating systems. It must be connected to the loop line in heating systems. It can be used in antifreeze systems.

The expansion tank is used as a pressure tank for booster systems used in environments where the city network pressure is not sufficient, and in closed system heating installations, in order to prevent the installation water that heats up and expands from causing high pressure and damaging the installation.

Technicial Specifications

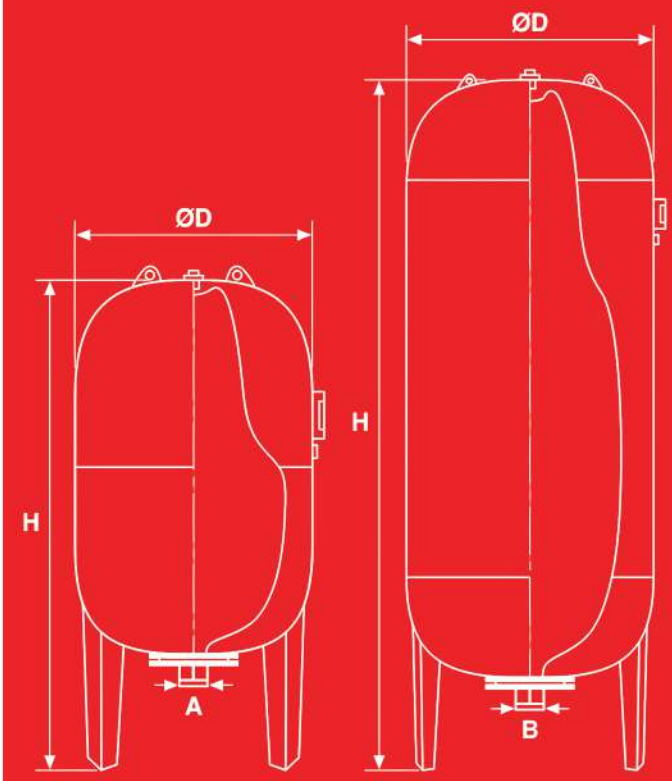
Replaceable type EPDM membrane is used in our tanks. The operating temperature is between **-10 oC and +120 oC.** It is covered with Electrostatic Powder - Coating powder paint. It is resistant to scratching, impact and corrosion.

TYPE	TANK VOLUME	MAXIMUM BUSINESS PRESSURE		FACTORY EXIT PRE GAS PRESSURE	THIS CONNECTION	DIMENSIONS	
						DIAMETER (D)	HEIGHT (H)
ASG-24	24	6	10	4	1”	350	350
ASG-50	50	6	10	4	1”	380	520
ASG-80	80	6	10	4	1”	460	830
ASG-100	100	6	10	4	1”	460	950
ASG-150	150	6	10	4	1”	500	1200
ASG-200	200	6	10	4	1 1/4”	600	1120
ASG-250	250	6	10	4	1 1/4”	640	1060
ASG-300	300	6	10	4	1 1/4”	640	1290
ASG-400	400	6	10	4	1 1/4”	640	1540
ASG-500	500	10	16	4	2”	800	1380
ASG-750	750	10	16	4	2”	800	1800
ASG-1000	1000	10	16	4	2”	800	2200
ASG-1250	1250	10	16	4	NW65	960	2160
ASG-1500	1500	10	16	4	NW65	960	2610
ASG-2000	2000	10	16	4	NW65	1100	2430
ASG-2500	2500	10	16	4	NW80	1150	2790
ASG-3000	3000	10	16	4	NW80	1200	3070
ASG-3500	3500	10	16	4	NW80	1400	2780
ASG-4000	4000	10	16	4	NW80	1400	3100
ASG-4500	4500	10	16	4	NW80	1500	3020
ASG-5000	5000	10	16	4	NW80	1500	3270

2014/68/EU Norm Expansion Tanks

- **Volume Range** 50 lt - 5000 lt
- **Operating temperature** -10 0C - + 120 0C
- **Max Operating Pressure** 10 bars - 16 bars
- **Quality Norm** 2014/68/EU

AQUA PUMP
PUMP AND BOOSTER SYSTEMS



AQUA PUMP
PUMP AND WATER BOOSTER SYSTEMS

REFERENCES

TURKMENISTAN - Ashgabat - Ahal City Project

IRAQ - ERBIL Dakheel Hospital

UZBEKISTAN - New Andican City Project

GEORGIA - Tbilisi -Bakuriani Kokhta Mitarbi Hotel

SYRIA / JERABLUS - Military Base

AZERBAIJAN - Zerdabi Residence

LİBYA - Office of the Attorney General

IZMİR - Toki

SİİRT- Toki

TRABZON- Toki

İSKENDERUN - TOKI

ESKISEHIR - Karapinar Toki

IĞDIR- Toki

MALATYA - Toki

TOKİ - Urban Transformation with 548 Residences

REFERENCES

AQUA PUMP
PUMP AND WATER BOOSTER SYSTEMS

ERZINCAN - Binali Yildirim University

ARDAHAN - State Hospital

RİZE - State Hatun Girls' Dormitory

ORDU - Metropolitan Municipality Building

BITLIS - Eren University

KIRSEHIR - Kaman KYK Dormitory

ERZURUM - Metropolitan Municipality - Kayı Housing Project

AĞRI / CENTER - 112 Emergency Command Center

BURSA - Uludag University

AĞRI - Airport

İSTANBUL - İSKİ - Silivri Wastewater Plant

KARABUK - Karabuk University

SİVAS - Olympic Swimming Pool

SİVAS - Cumhuriyet University

VAN - Ataturk Stadium

WORLDWIDE EXPERT
ASSEMBLY TEAM AND SERVICE NETWORK

- Onsite Assembly
- Spare Parts Supply
- Express Service
- Periodic Maintenance Services

www.aquasan.com.tr

AQUASAN®

GROUP

AQUA TANK
MODÜLER SU DEPOLAMA SİSTEMLERİ

AQUA PUMP
POMPA VE HİDROFOR SİSTEMLERİ

AQUA FIRE
YANGIN SÖNDÜRME SİSTEMLERİ

AQUA FLUE
METAL BACA SİSTEMLERİ

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E-Posta / Web
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www.aquasan.com.tr


WRAS APPROVED MATERIAL

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

APPROVAL NUMBER: 2012529
APPROVAL HOLDER: FIBER FIBER REINFORCED RESINS KOMPOZİT TEKNOLOJİLERİ DIS TIC. A.S


AQUASAN

AT UYGUNLUK BEYANI
EC Declaration of Conformity

CE


AQUASAN

AT UYGUNLUK BEYANI
EC Declaration of Conformity

CE


AQUASAN

AT UYGUNLUK BEYANI
EC Declaration of Conformity

CE


TSE

TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS


TSEK

TÜRK STANDARDLARI ENSTİTÜSÜ
KRİTERE UYGUNLUK BELGESİ

TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMANCE TO CRITERIA


TSEK

TÜRK STANDARDLARI ENSTİTÜSÜ
KRİTERE UYGUNLUK BELGESİ

TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMANCE TO CRITERIA


TÜRK MALI BELGESİ
TURKISH GOODS CERTIFICATE

NO A 0010567

ÖRNEKTİR

AQUA PUMP

PUMP AND WATER BOOSTER SYSTEMS

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