



ARMAK

DENİZCİLİK MAKİNA İMALAT SAN. VE TİC. LTD. ŞTİ.

EJEKTER KATALOĞU

Adres: Evliya Çelebi Mh. Doğan (Ümmet) Sok. No:10 Tuzla / İSTANBUL
Tel: 0 (216) 446 44 63 Fax: 0 (216) 446 84 11



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DENİZCİLİK MAKİNA İMALAT SAN. VE TİC. LTD. ŞTİ.

EJEKTER TİPLERİ

1" den 10" kadar

• ALÇAK BASINÇ EJEKTERLERİ

8". 8". 10"
5". 8". 8"
5". 6". 6"
4". 4". 5"
3". 3". 4"

• YÜKSEK BASINÇ EJEKTERLERİ

2". 3". 3"
2½". 2½". 3"
1½". 1½". 2½"
¾". 1". 1"

8" 8" 10"

5" 8" 8"

4" 5" 5"

3" 4" 4"

2" 3" 3"

2½" 2½" 3"

¾" 1" 1"

REFERANSLARIMIZ

RMK
GEMAK
DÜZGİT
TERSAN
FURTRANS
TUZLA GEMİ
KAPTANOĞLU
BEŞİKTAŞ GROUP
VBK DENİZCİLİK
TEKNE YAPIM
HALIKARNAS
GÜNDOĞDU
DENİZSAN
ATLANTİK

Adres: Evliya Çelebi Mh. Doğan (Ümmet) Sok. No:10 Tuzla / İSTANBUL
Tel: 0 (216) 446 44 63 Fax: 0 (216) 446 84 11

EJEKTERLER İÇİN İMALATÇI SERTİFİKASI

MANUFACTURER CERTIFICATE for EJECTORS

FİRMAMIZDA ÜRETİLEN TÜM EJEKTERLER AŞAĞIDAKİ ÖZELLİKLERE SAHİPTİR
All ejectors which produced by our company have following specifications.

1. Bronz döküm ejekterler (AL) bronz kalitesindedir
Bronze casting ejectors have AL-Bronze quality.
2. Üretilen ejekterler 20 Bar'a test edilmiştir.
Ejektors are tested at 20 Bars.
3. Tüm flençler PN 16'dır.
All flanges are PN 16
4. Nozullar 316-L kromdur
Nozzuls are made of AISI 316L stainless stell.
5. Üretilen tüm ejekterler aşınmaya karşı 4 (dört) yıl garantilidir.
(Deniz suyu için)
All ejectors are under our gurantee for four (4) years against to abrasion
(for sea water)
6. Kapasite eğrisi ve resimler ektedir.
Capacity curves and drawings are anclosed.
7. İlgili sertifikalar ektedir.
Certificates are enclosed.

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EJEKTERLERİN TEKNİK ÖZELLİKLERİ

Technical Specification Of The Ejectors

Item No	YÜKSEK BASINÇLI EJEKTERLER High Pressure Ejector	POMPA(Pump)			Suction Lift (m)	Suction Capacity (m³ / h)
		Drive Water Pressure (bar)	Drive Water Consumption Min. (m³ / h)			
1	5",8",8"	10 8 ↗ 6	240 ↗		3 ↘	225 208 ↗ 180
2	5",6",6"	10 8 ↗ 6	170 ↗		3 ↘	160 145 ↗ 130
3	4",5",5"	12 8 ↗ 6	110 ↗		3 ↘	110 95 ↗ 80
4	3",4",4"	10 8 ↗ 6	70 ↗		3 ↘	70 64 ↗ 54
5	2",3",3"	10 8 ↗ 6	40 ↗		3 ↘	38 34 ↗ 29
6	2 1/2" , 2 1/2" , 3"	10 8 ↗ 6	30 ↗		3 ↘	30 22 ↗ 12
7	1 1/2",1 1/2",2 1/2"	8 6 ↗ 4 (portable)	12 ↗		3 ↘	11 10 ↗ 7
8	3/4" , 1" , 1"	10 8 ↗ 6 (portable)	200 150 ↗ hava	10 m³/h su	7 max. ↘ 1	3 2.5 ↗ 2

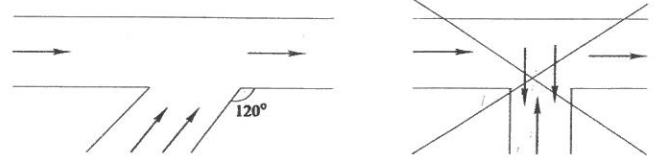
Item No	LOW PRESSURE EJECTORS	Pompa(Pump)		Suction lift (m)	Suction Capacity (m ₃ / h)
		Drive Water Pressure (bar)	Drive Water Consumption min. (m ₃ / h)		
9	8", 8", 10"	3 2,5 ↗	600 ↗	3 ↘	220 190 ↗
10	5", 8", 8"	3 2,5 ↗	400 ↗	3 ↘	110 80 ↗
11	5", 6", 6"	3 2,5 ↗	200 ↗	3 ↘	70 60 ↗
12	4", 4", 5"	3 2,5 ↗	100 ↗	3 ↘	40 35 ↗
13	3", 3", 4"	3 2,5 ↗	60 ↗	3 ↘	22 18 ↗

EJEKTERLERİN YERİNE MONTAJINDA DİKKAT EDİLECEK HUSUSLAR

RECOMMENDATIONS FOR THE INSTALLATION OF THE EJECTORS

1. Emiş, pompa, çıkış boru çapları kesinlikle küçülmeyecek, orifis kullanılmayacak.
Suction, pump and discharge dimensions have not to be reduced. Using orifice is not recommended.
2. Ejekterlerin emme, pompa, çıkış flençlerine dirsek, vana bağlanacaksa ancak bunlar en az 0,5 m – 1 m uzak konulmalı
If elbow, valve, etc fitting to be connected to suction, pump and discharge outlets of the ejectors than these fittings have to be installed 0,5 m – 1 m far away the ejector.
3. Özellikle çıkış (discharge) borusu, bir büyük çaplı boruya geçişte 120° açı ile yapılmalı.
Specially discharge outlet of the ejector has to be connected to bigger size of pipe with 120° angle as shown the sketch.

4. Çıkışta (discharge) çek valf konması gerekiyorsa
Çıkış 3" ise 4" çek valf konmalı,
Çıkış 5" ise 6" çek valf konmalı.



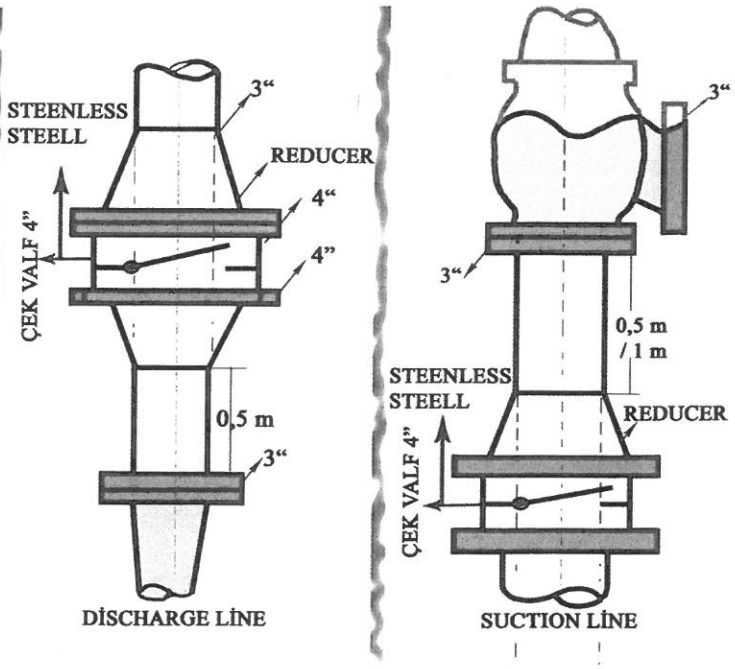
Bu çek valfler ejekterden 0,5 m – 1 m minimum uzaklıkta olmalı.

If it is needed to use a check valve at the discharge outlet of the ejector than bigger size of check valve to be used.

For exemple;

For 3" discharge 4" check valve
For 5" discharge 6" check valve
etc...

These check valves to be installed 0,5 m – 1 m away from the ejectors.



5. Ejekter çalıştırılırken pompa hattında açık yer olmamalı. Pompa sadece ejekter için çalıştırılmalı.

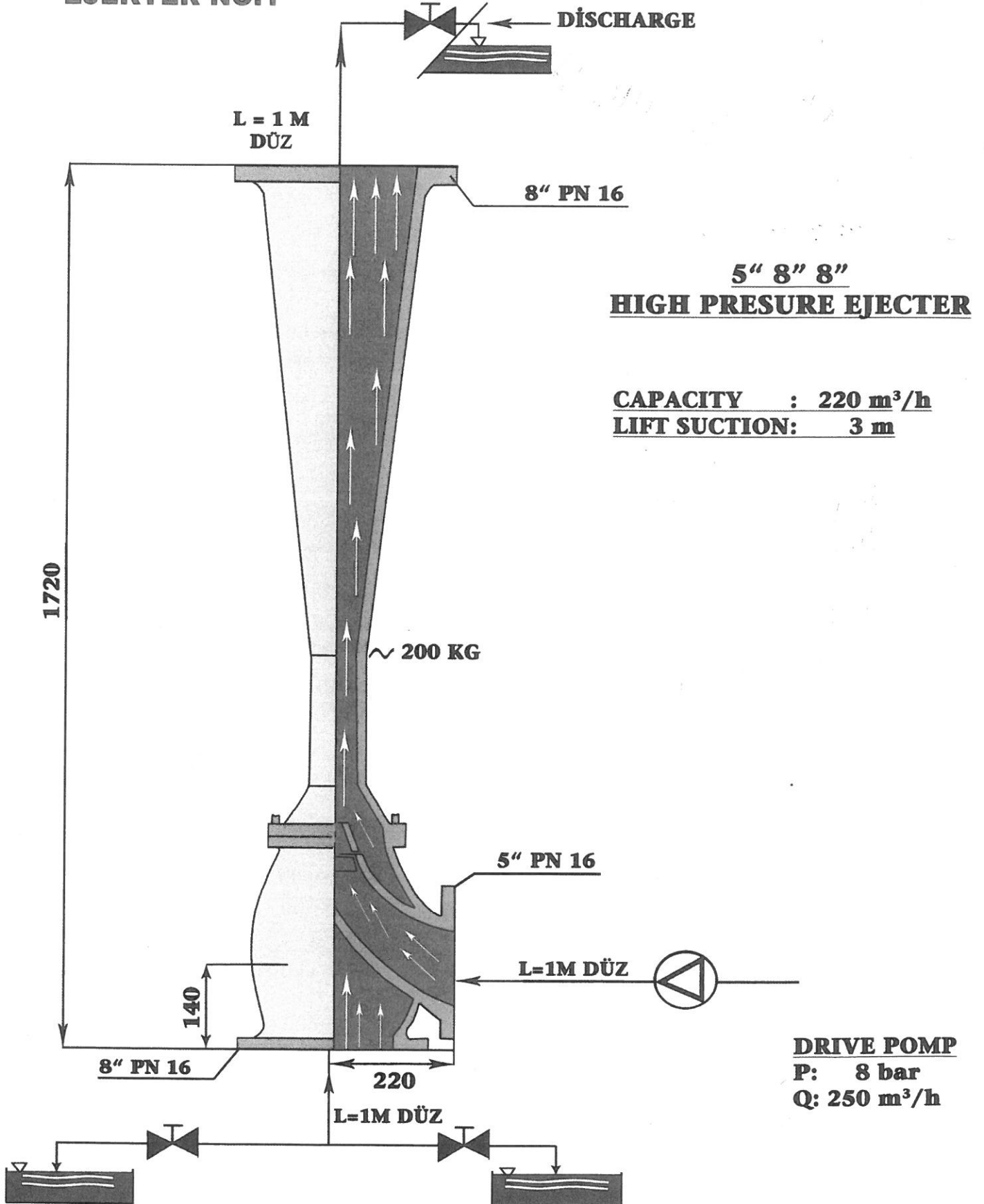
During using of ejector there must be no other user for the driver pump. The driver pump must have worked only for ejector.



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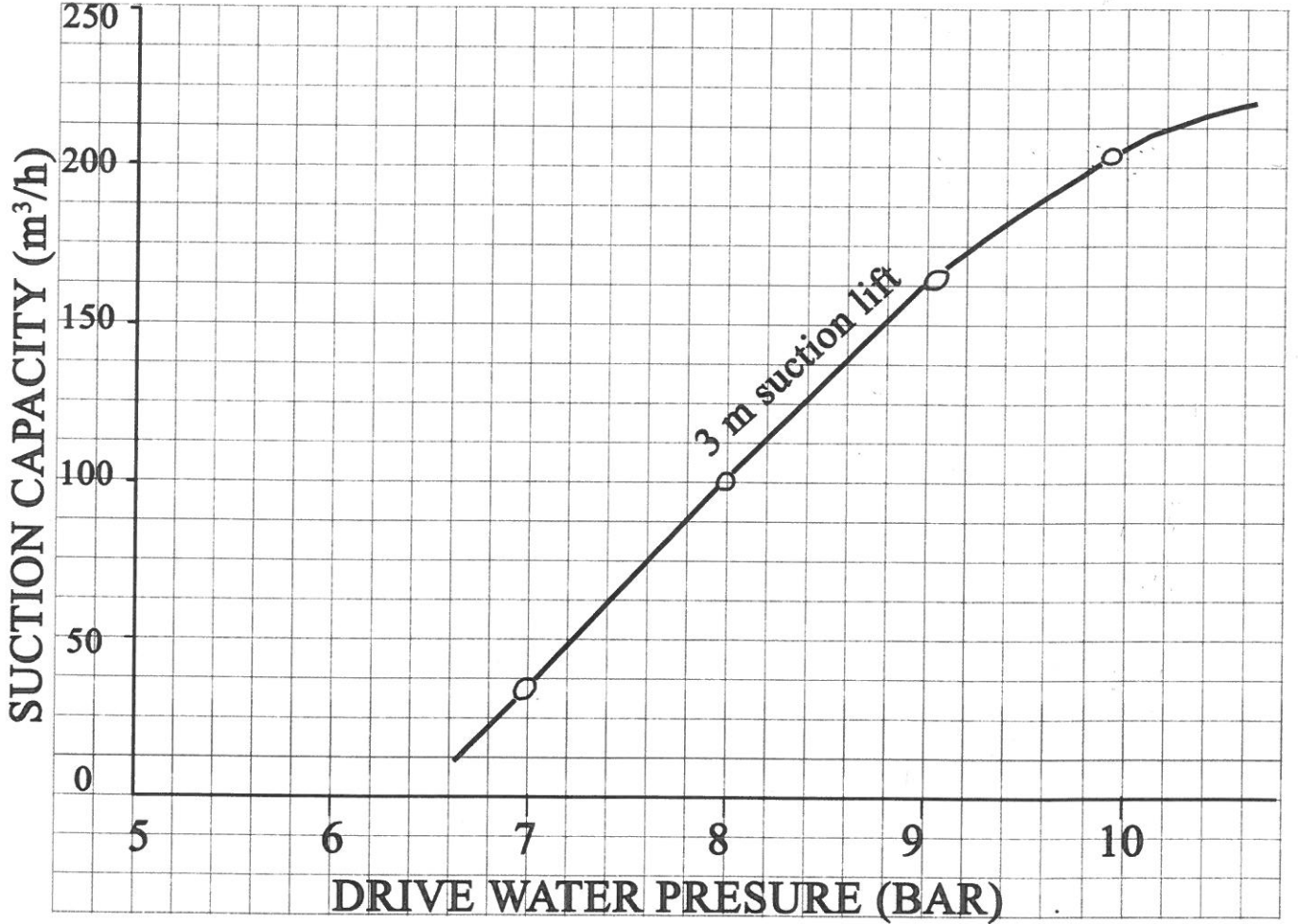
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EJEKTER NO:1



EJEKTER NO:1

**5" 8" 8"
HIGH PRESURE EJEKTER**



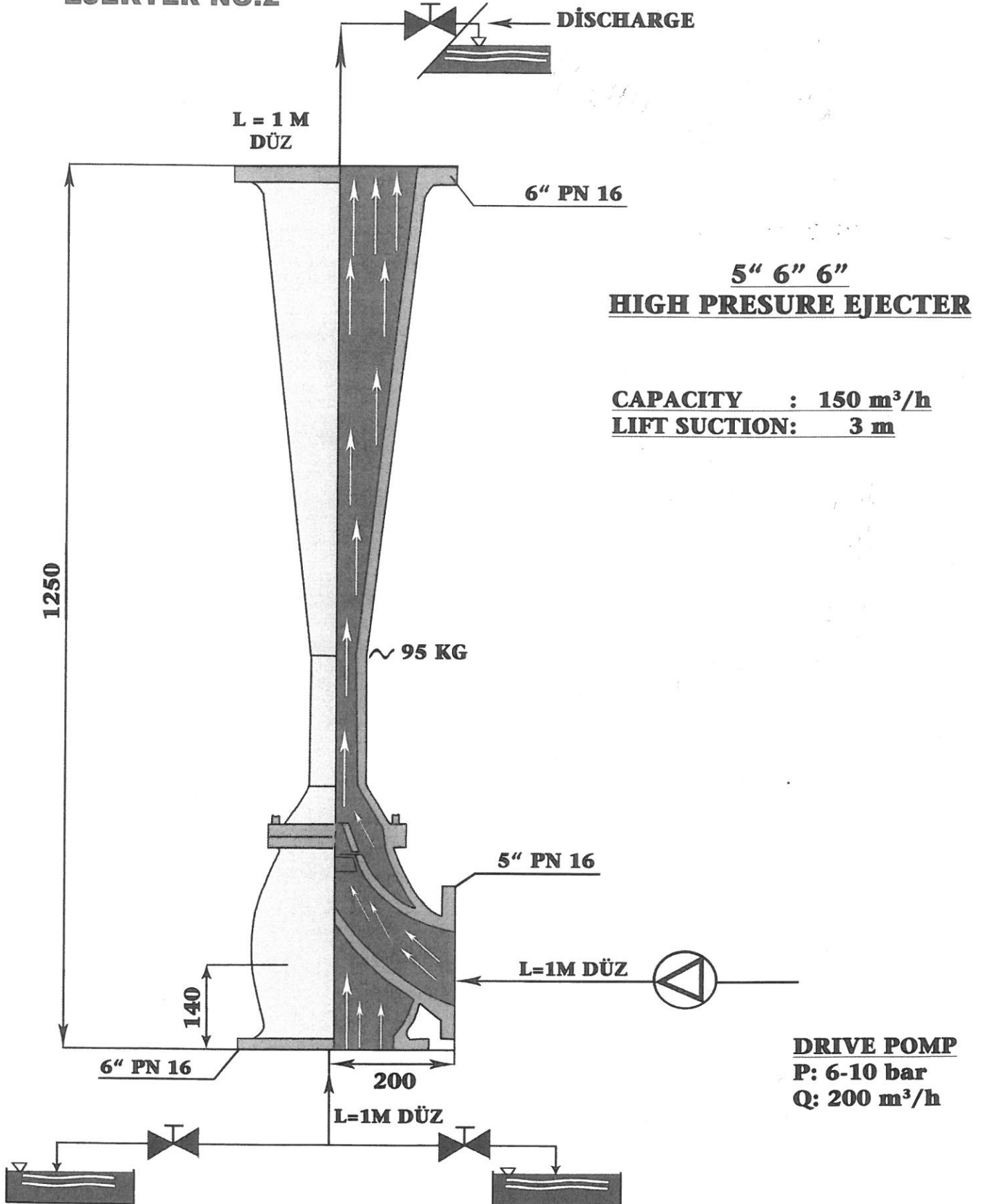
- | | |
|---------------------------|----------|
| - Delivery Head | 20 m |
| - Suction Lift | 3 m |
| - Drive Water Consumption | 250 m³/h |
| - Drive Water Pressure | 10 Bar |
| - Suction Capacity | 220 m³/h |



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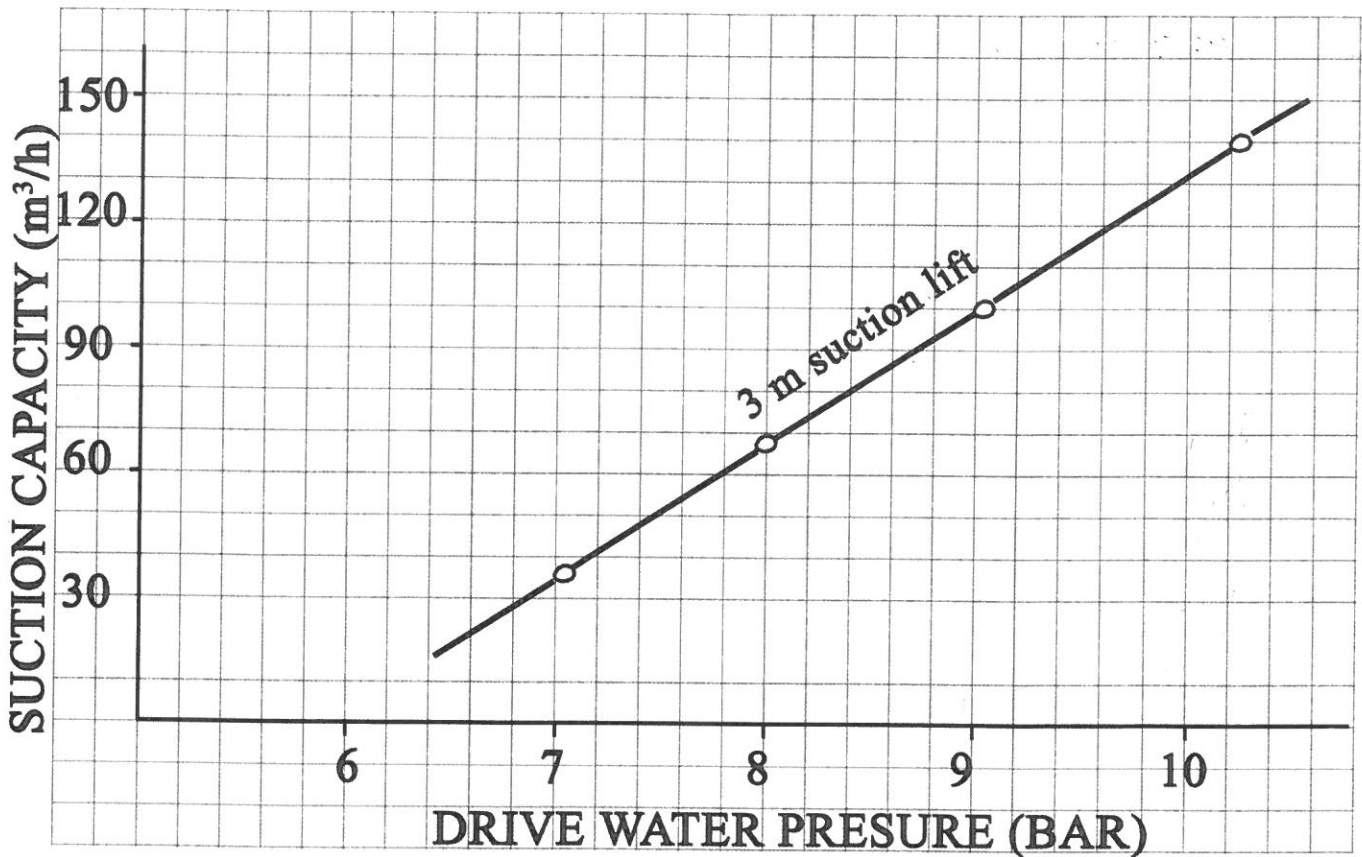
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EJEKTER NO:2



EJEKTER NO:2

**5" 6" 6"
HIGH PRESURE EJEKTER**



- Delivery Head 20 m
- Suction Lift 3 m
- Drive Water Consumption 200 m³/h
- Drive Water Pressure 10 Bar
- Suction Capacity 150 m³/h



EJEKTER NO:3



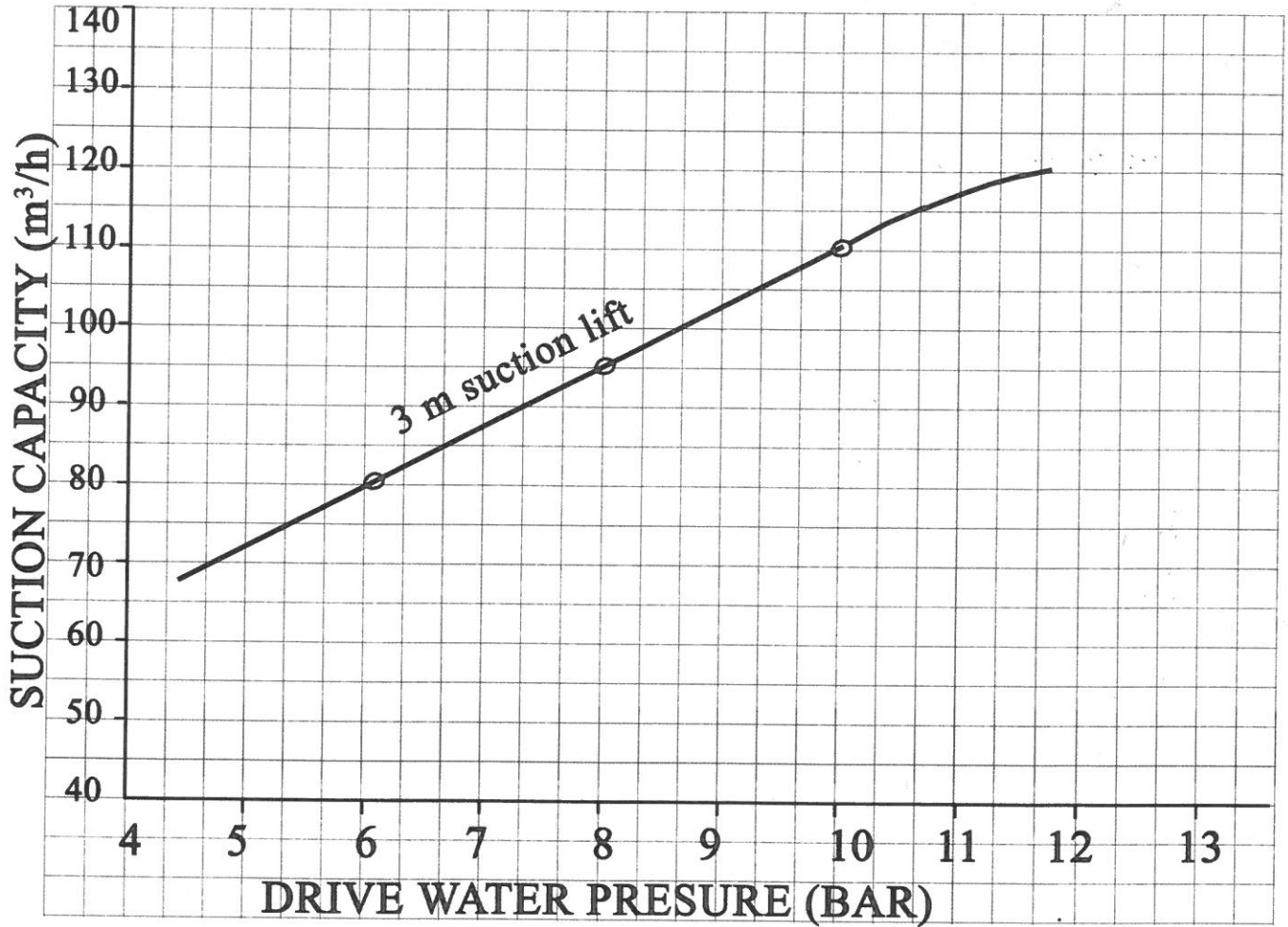


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EJEKTER NO:3

4" 5" 5"
HIGH PRESURE EJEKTER



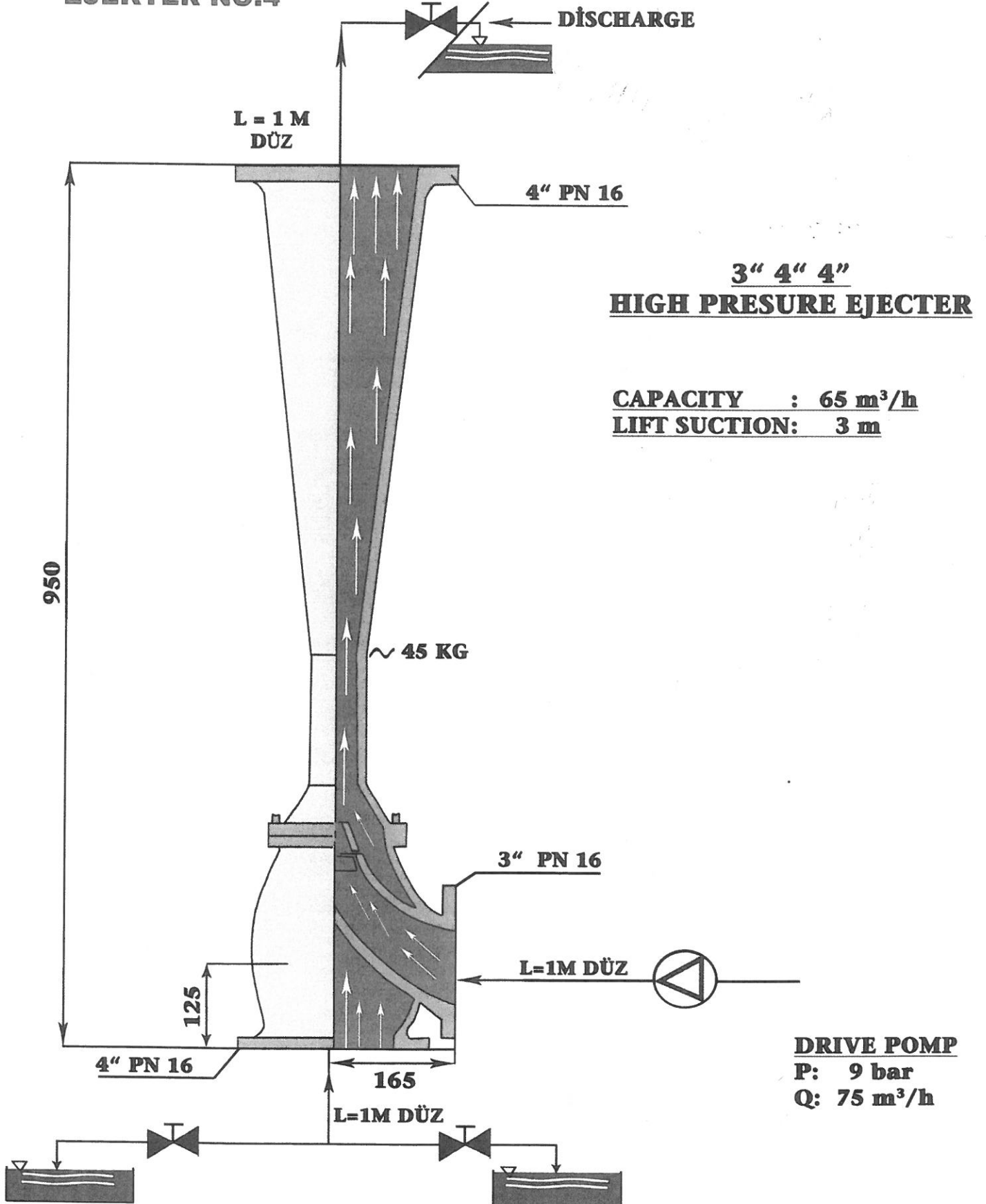
- Delivery Head 25 m WC
- Suction Lift 3 m
- Drive Water Consumption min 120 m³/h
- Drive Water Pressure 12 Bar
- Suction Capacity 100 m³/h



AR MAK

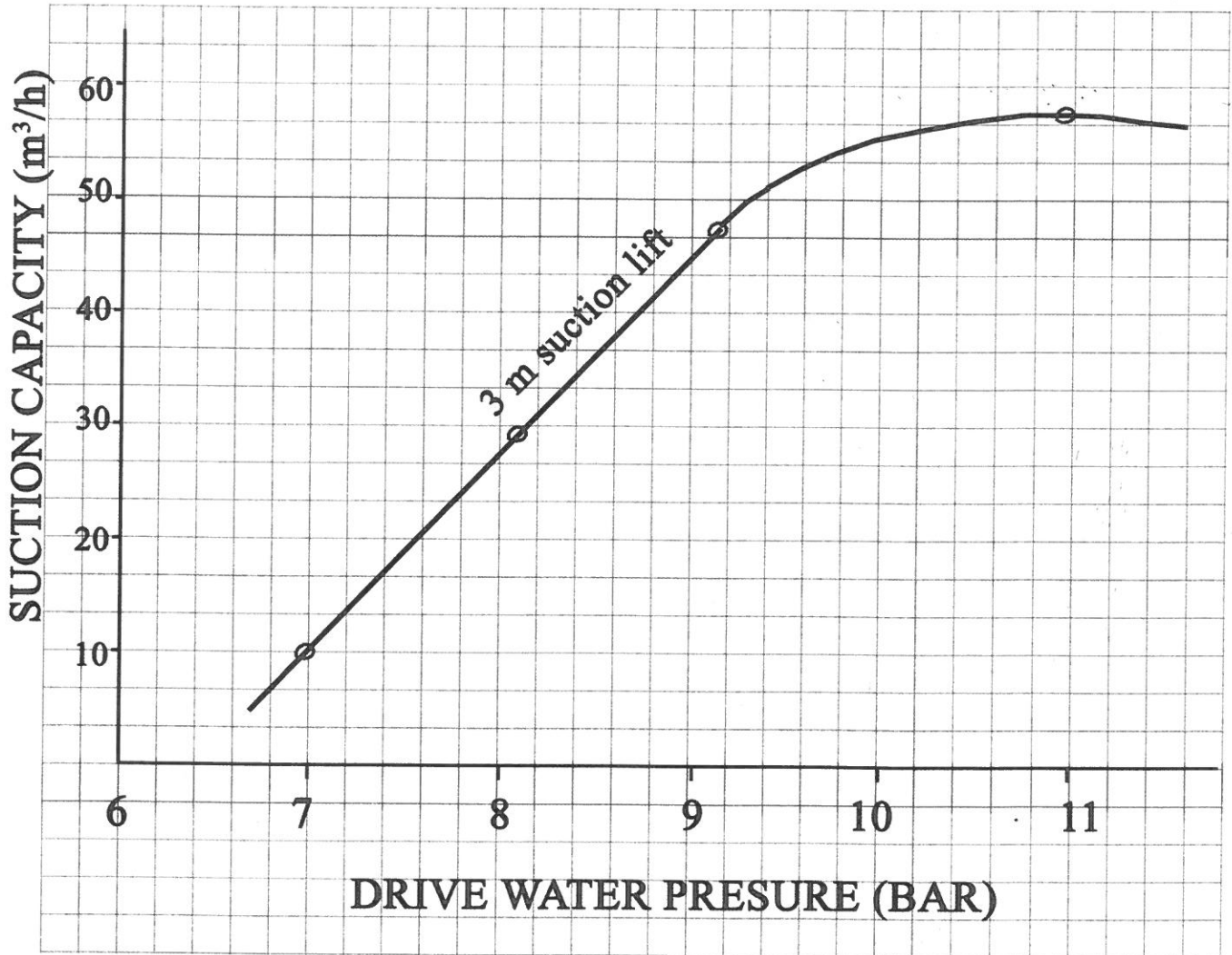
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EJEKTER NO:4



EJEKTER NO:4

**3" 4" 4"
HIGH PRESURE EJEKTER**



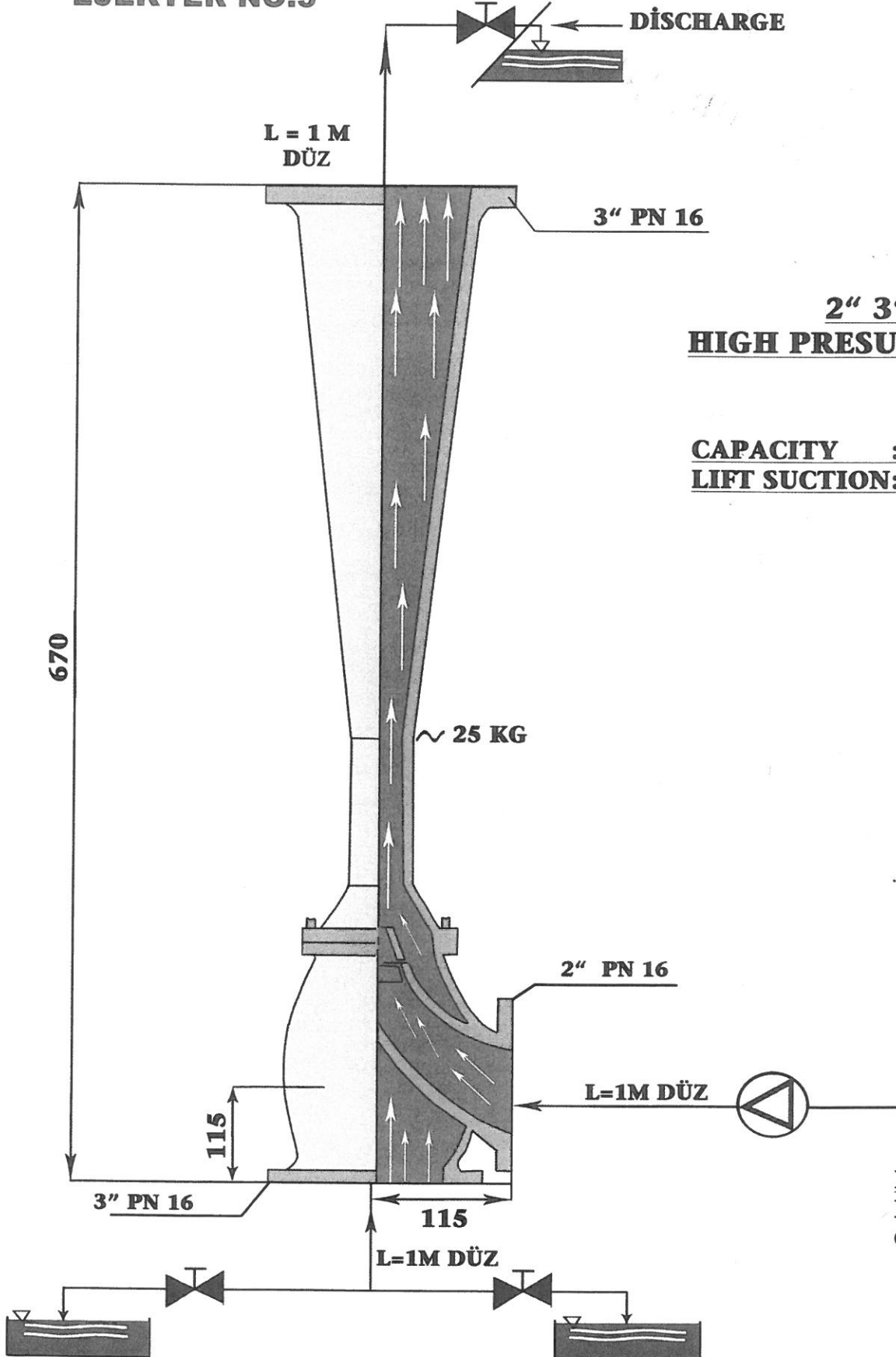
- | | |
|---------------------------|---------|
| - Delivery Head | 25 m |
| - Suction Lift | 3 m |
| - Drive Water Consumption | 75 m³/h |
| - Drive Water Pressure | 9 Bar |
| - Suction Capacity | 65 m³/h |



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EJEKTER NO:5



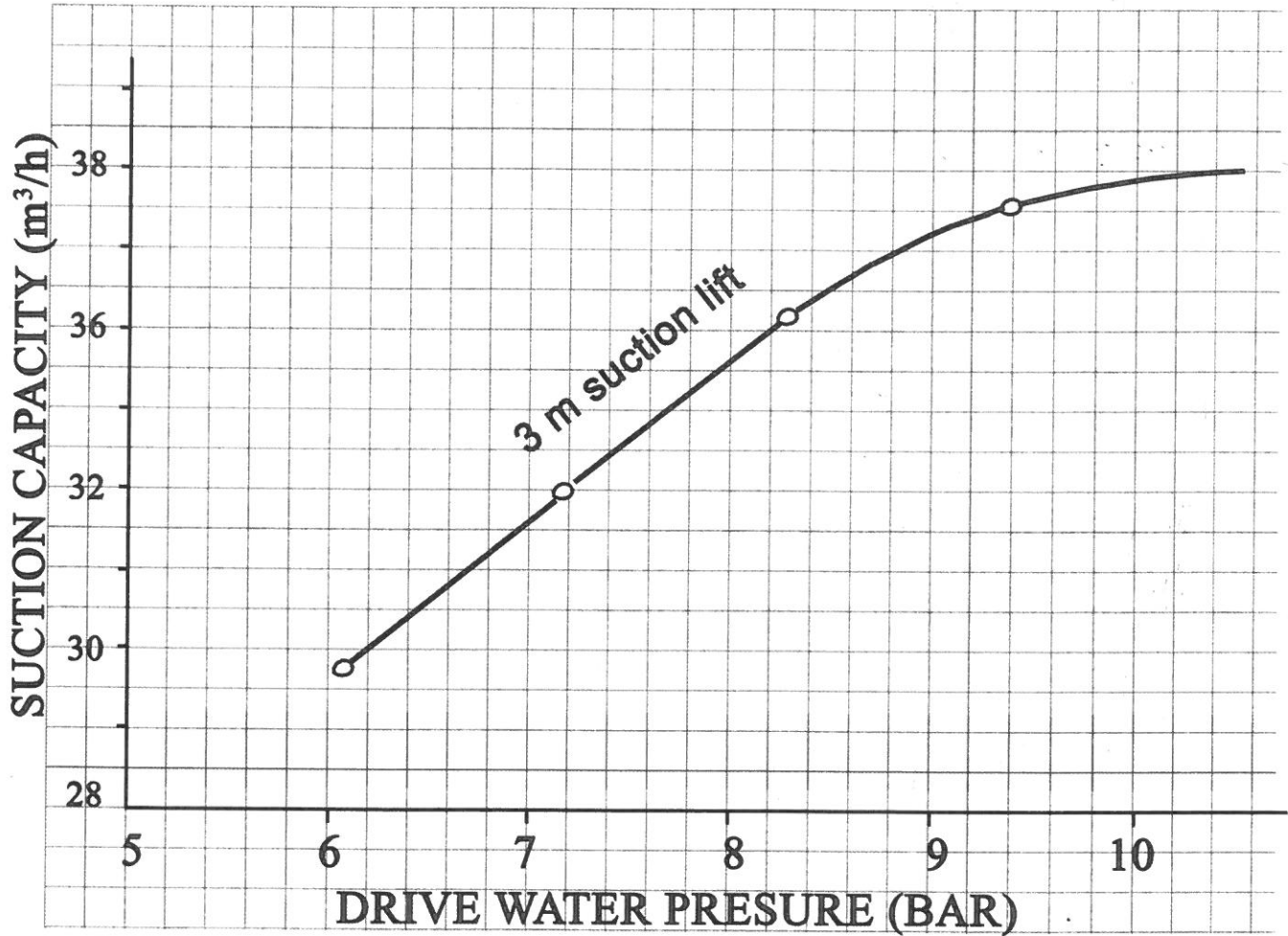


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EJEKTER NO:5

2" 3" 3" HIGH PRESURE EJEKTER



- | | |
|-------------------------------|---------|
| - Delivery Head | 15 m WC |
| - Suction Lift | 3 m |
| - Drive Water Consumption min | 40 m³/h |
| - Drive Water Pressure | 7 Bar |
| - Suction Capacity | 38 m³/h |



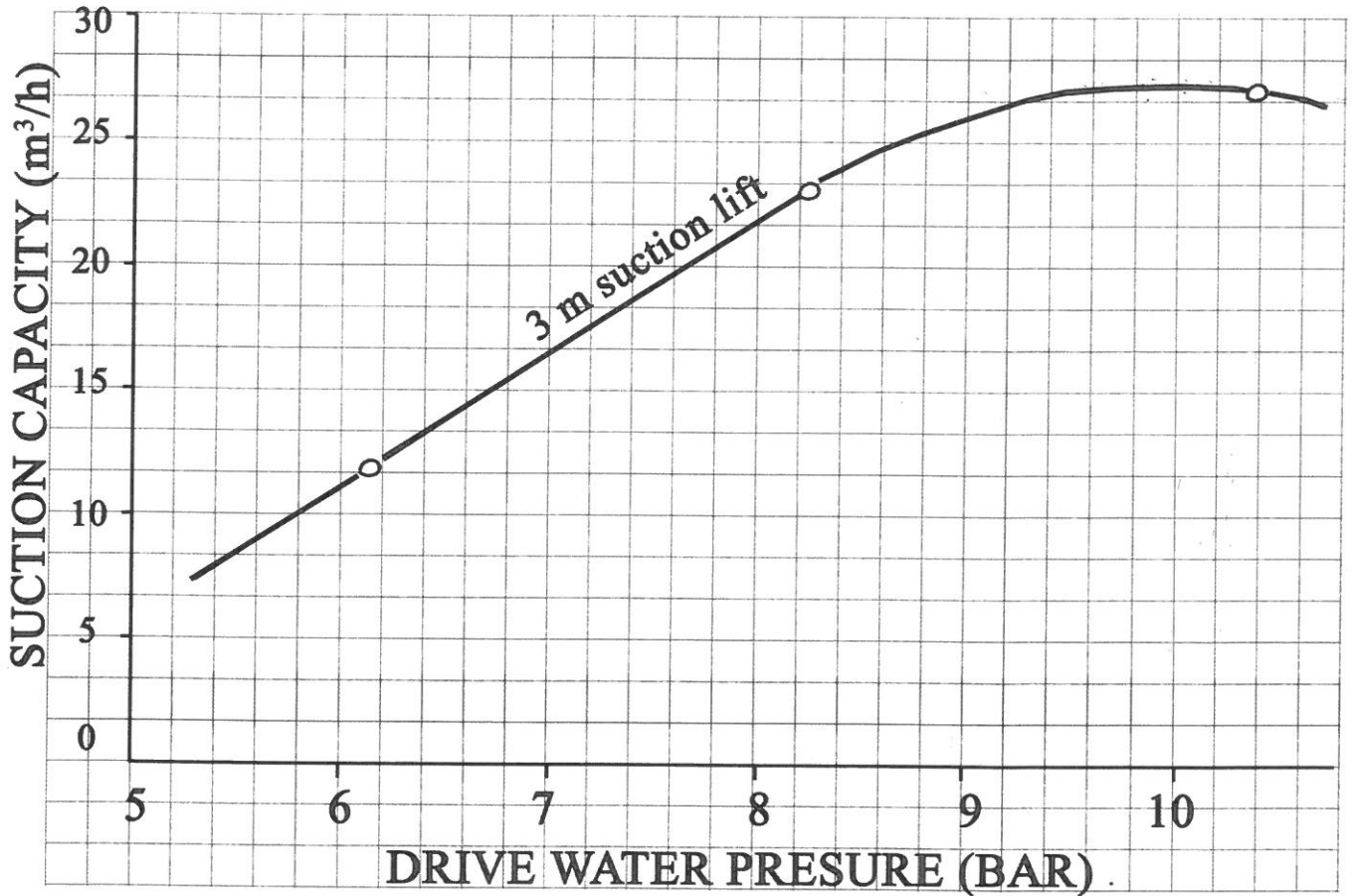


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DENİZCİLİK MAKİNA İMALAT SAN. VE TİC. LTD. ŞTİ.

EJEKTER NO:6

2½" 2½" 3" HIGH PRESURE EJEKTER



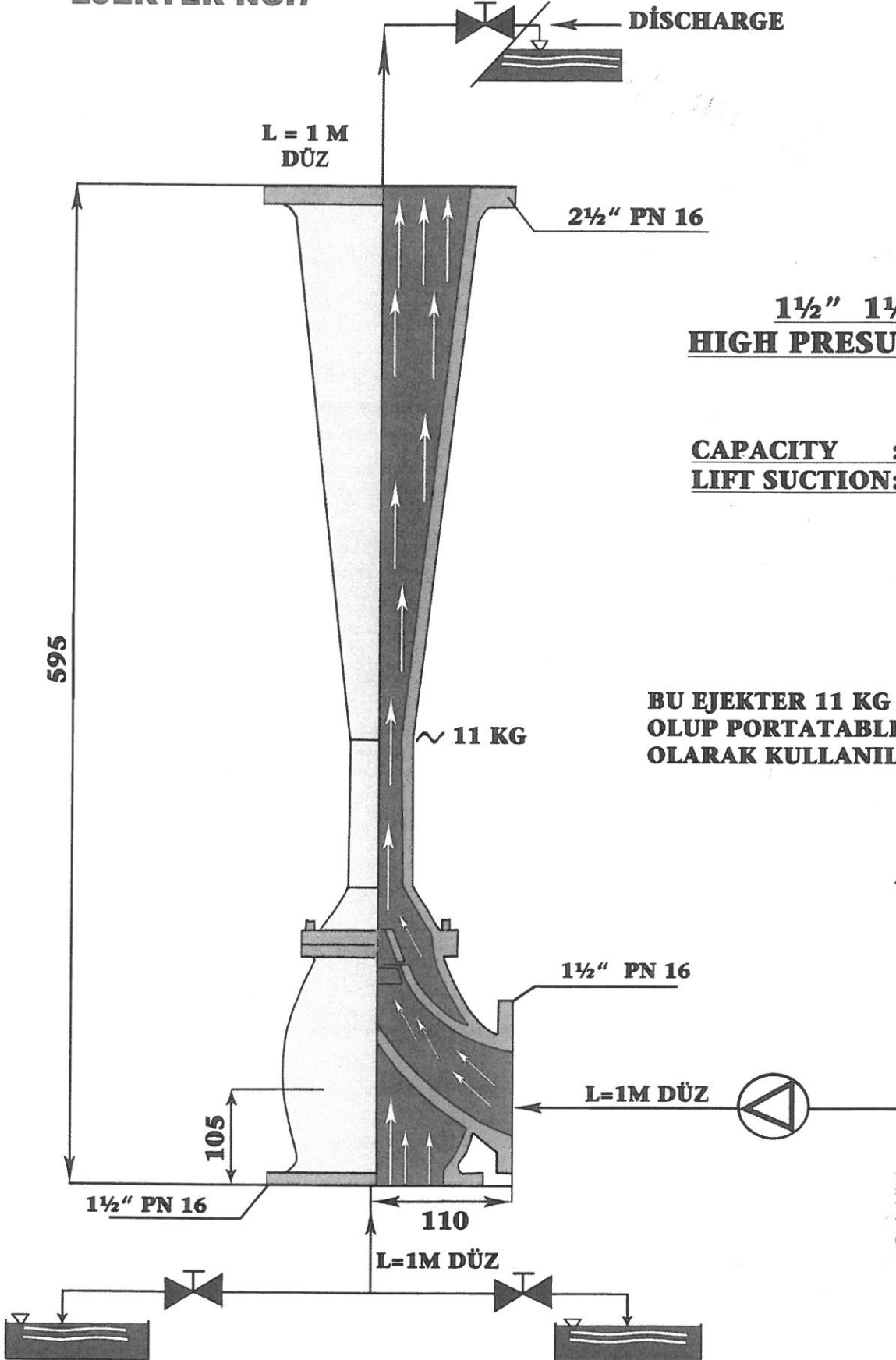
- Delivery Head 20 m WC
- Suction Lift 3 m
- Drive Water Consumption min 35m³/h
- Drive Water Pressure 10 Bar
- Suction Capacity 30 m³/h



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DENİZCİLİK MAKİNA İMALAT SAN. VE TİC. LTD. ŞTİ.

EJEKTER NO:7



1½" 1½" 2½"
HIGH PRESURE EJEKTER

CAPACITY : 10 m³/h
LIFT SUCTION: 3 m

BU EJEKTER 11 KG AĞIRLIĞINDA OLUP PORTATABLE EJEKTER OLARAK KULLANILABİLİR.

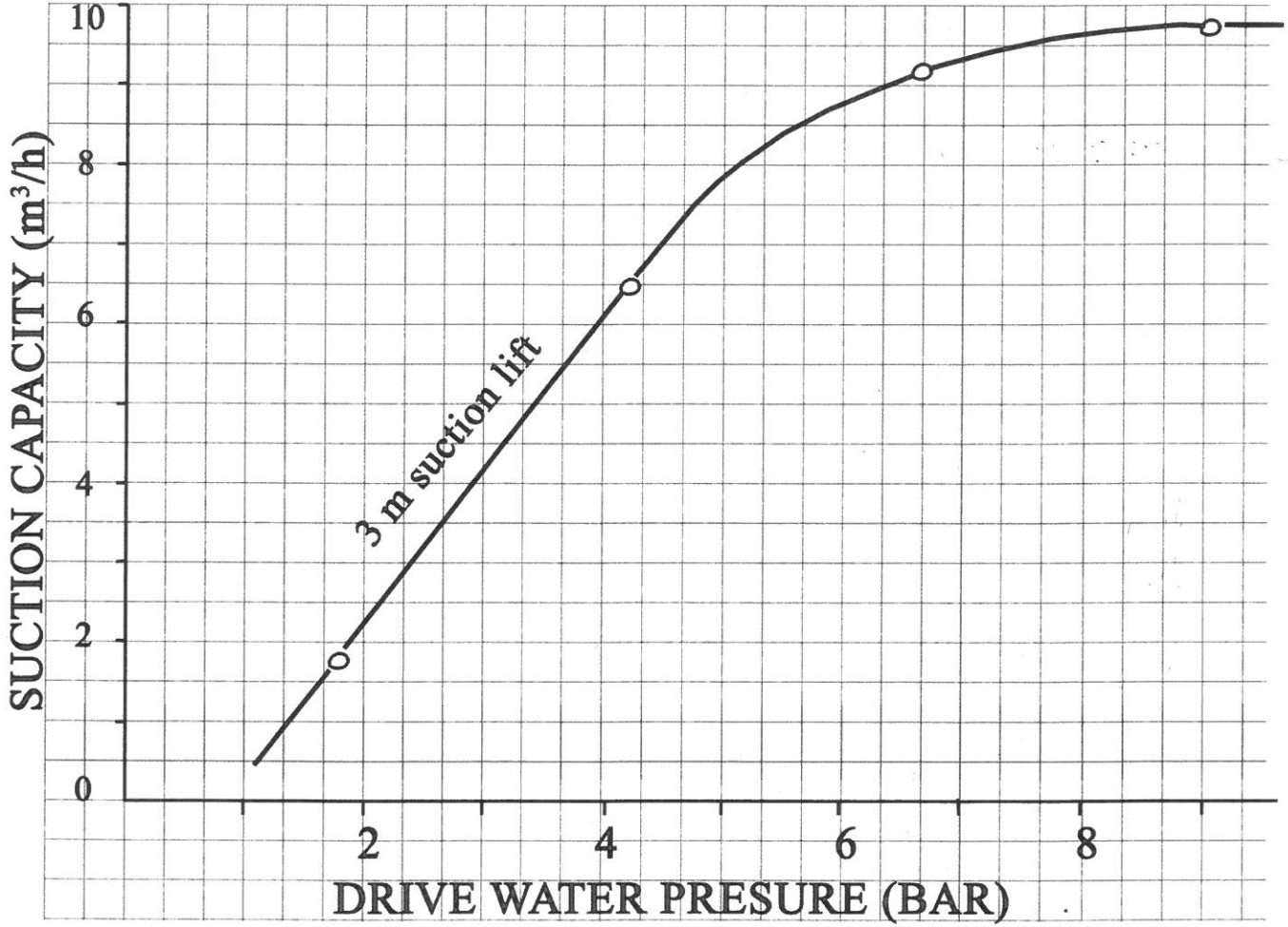
DRIVE PUMP

P: 6 bar

Q: 12 m³/h

EJEKTER NO:7

1½" 1½" 2½"
HIGH PRESURE EJEKTER



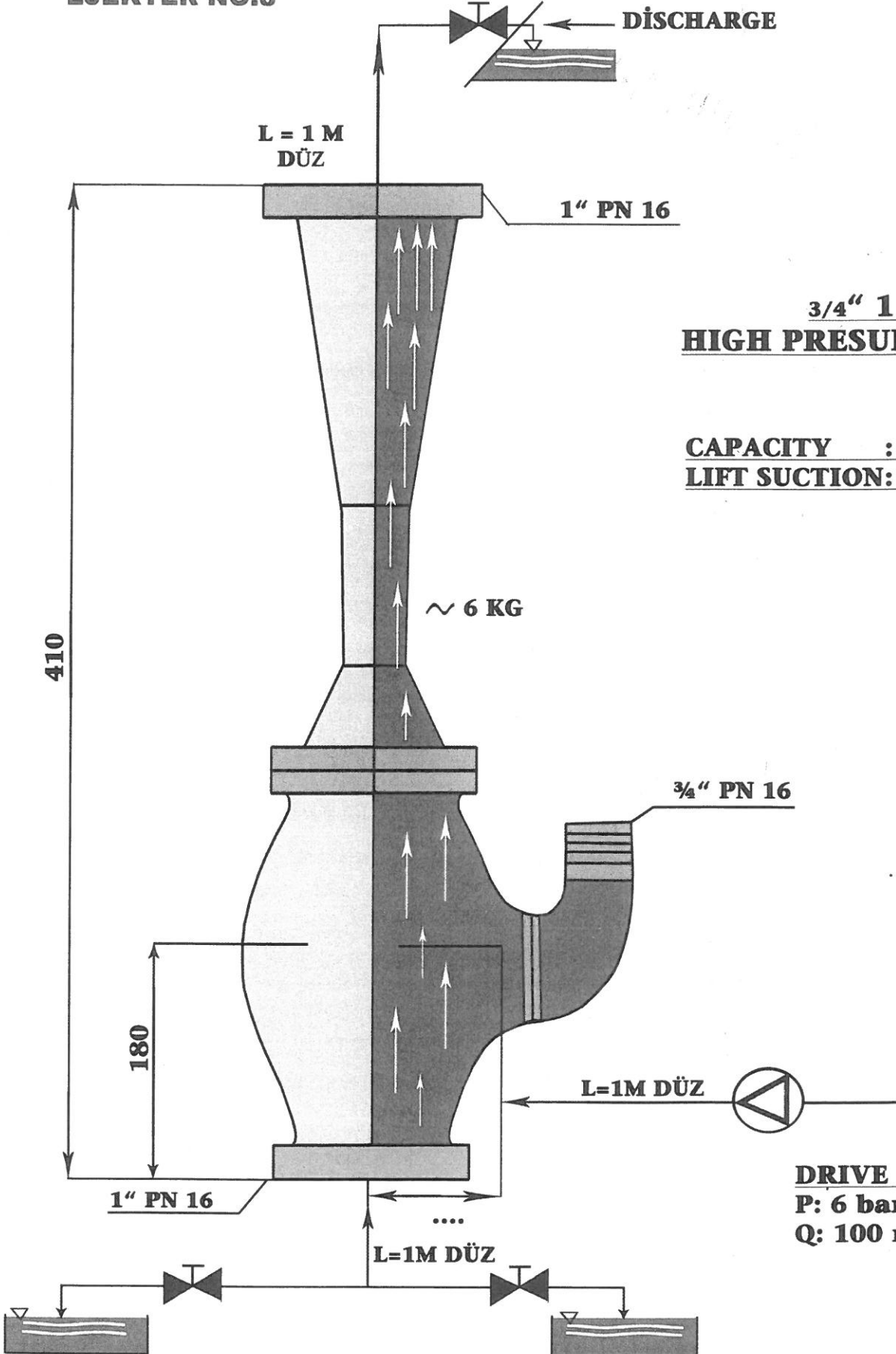
- Delivery Head 15 m
- Suction Lift 3 m
- Drive Water Consumption min 12 m³/h
- Drive Water Pressure 6 Bar
- Suction Capacity 10 m³/h



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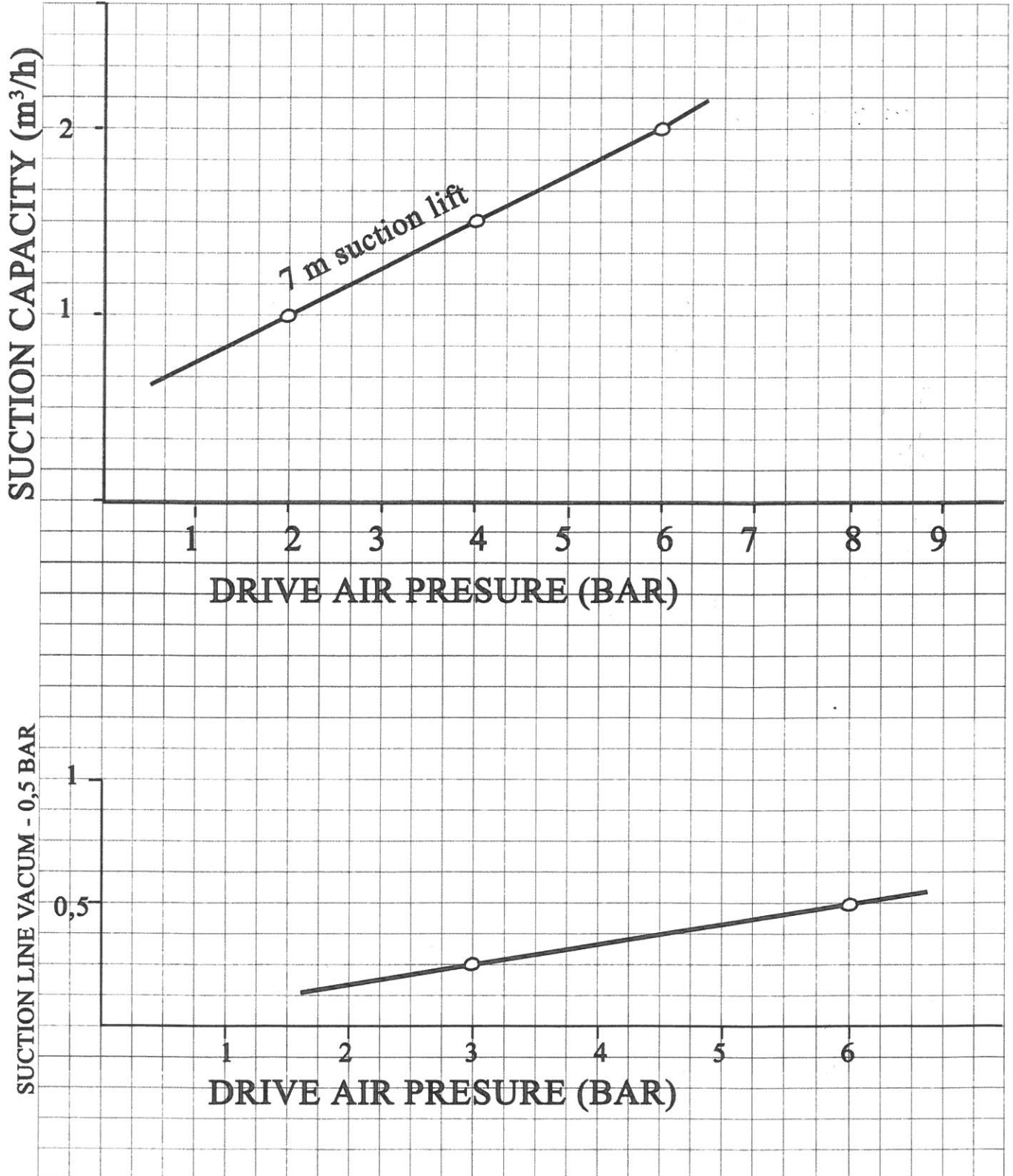
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EJEKTER NO:8



EJEKTER NO:8

**3/4" 1" 1"
HIGH PRESURE EJEKTER**

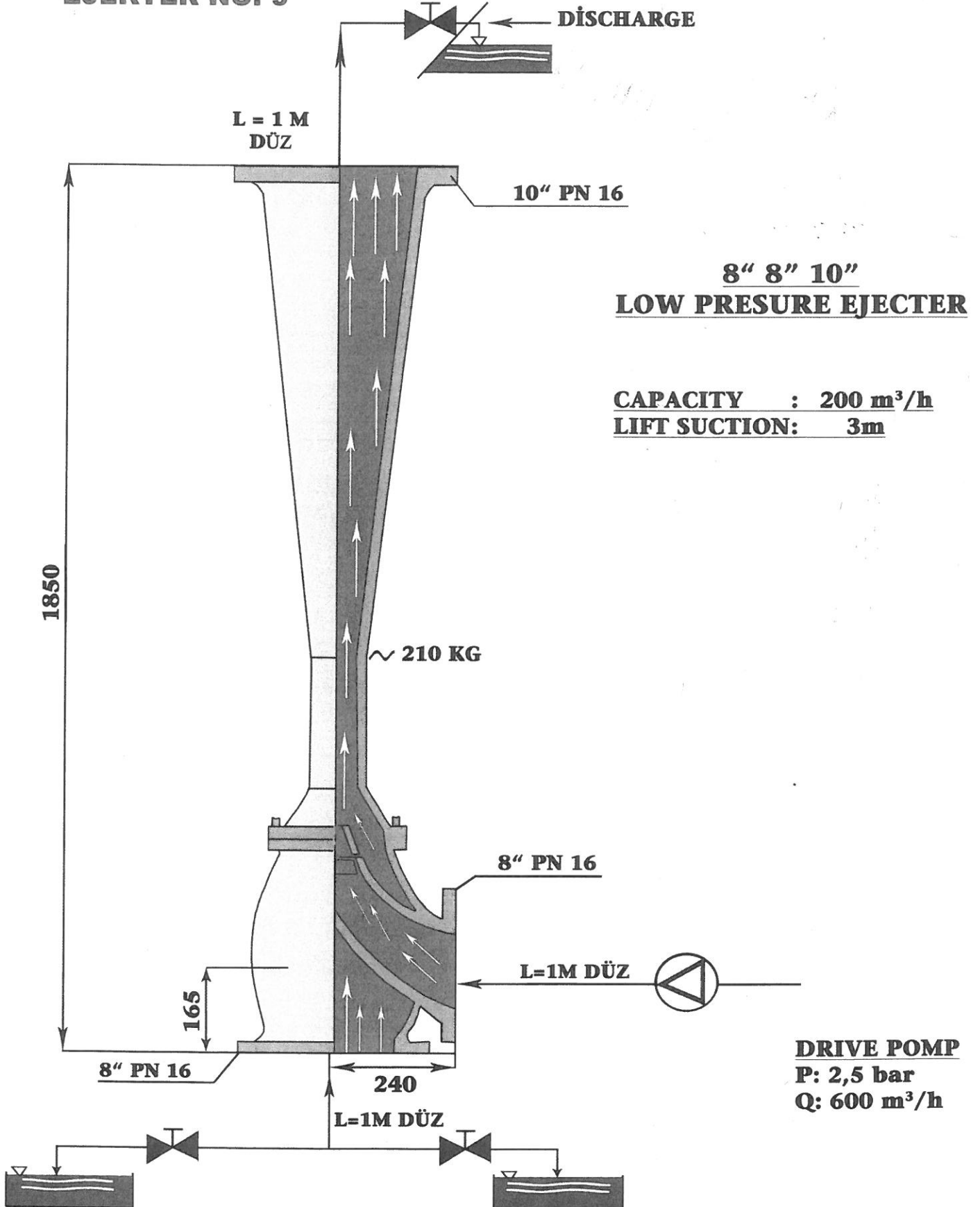




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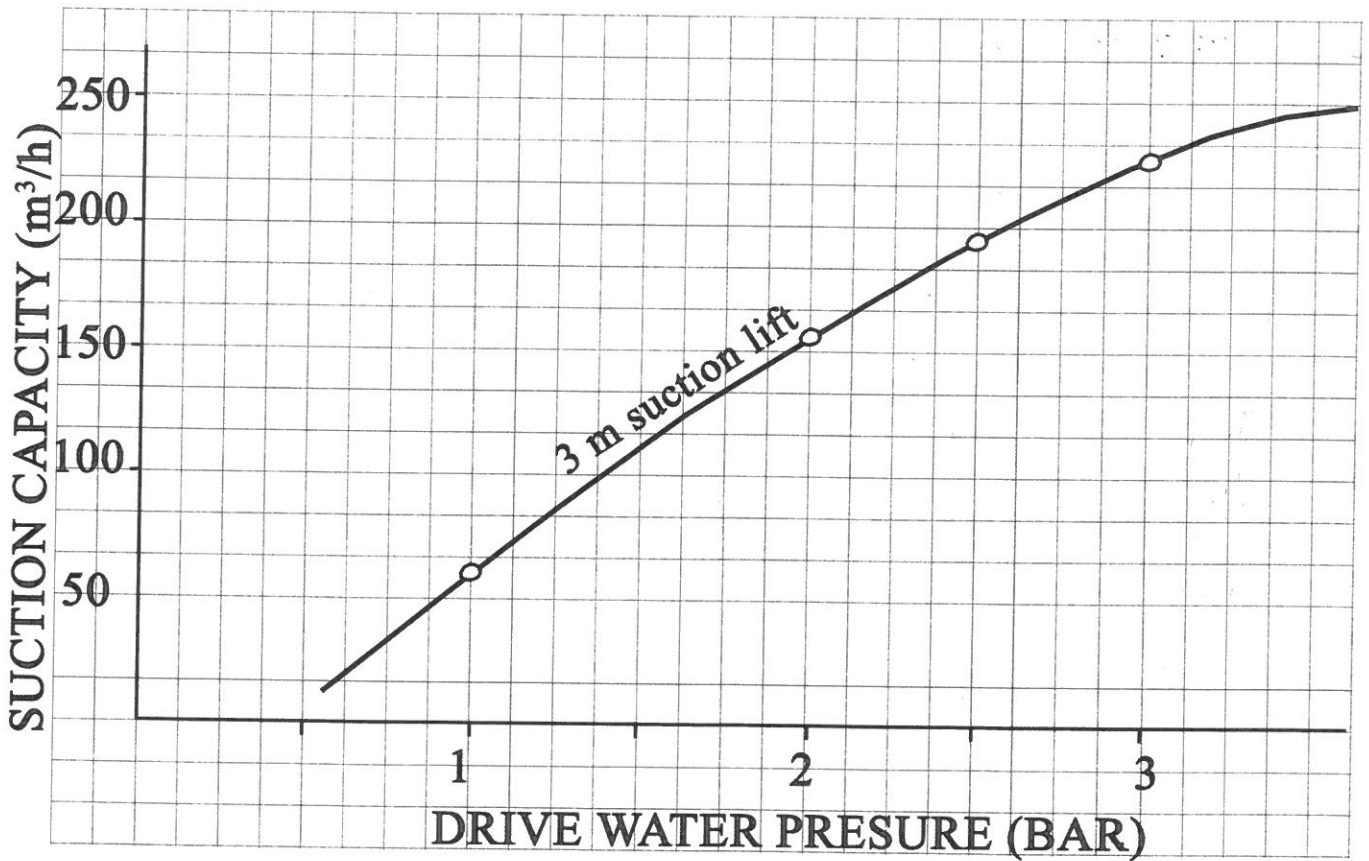
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EJEKTER NO: 9



EJEKTER NO: 9

8" 8" 10"
LOW PRESURE EJEKTER



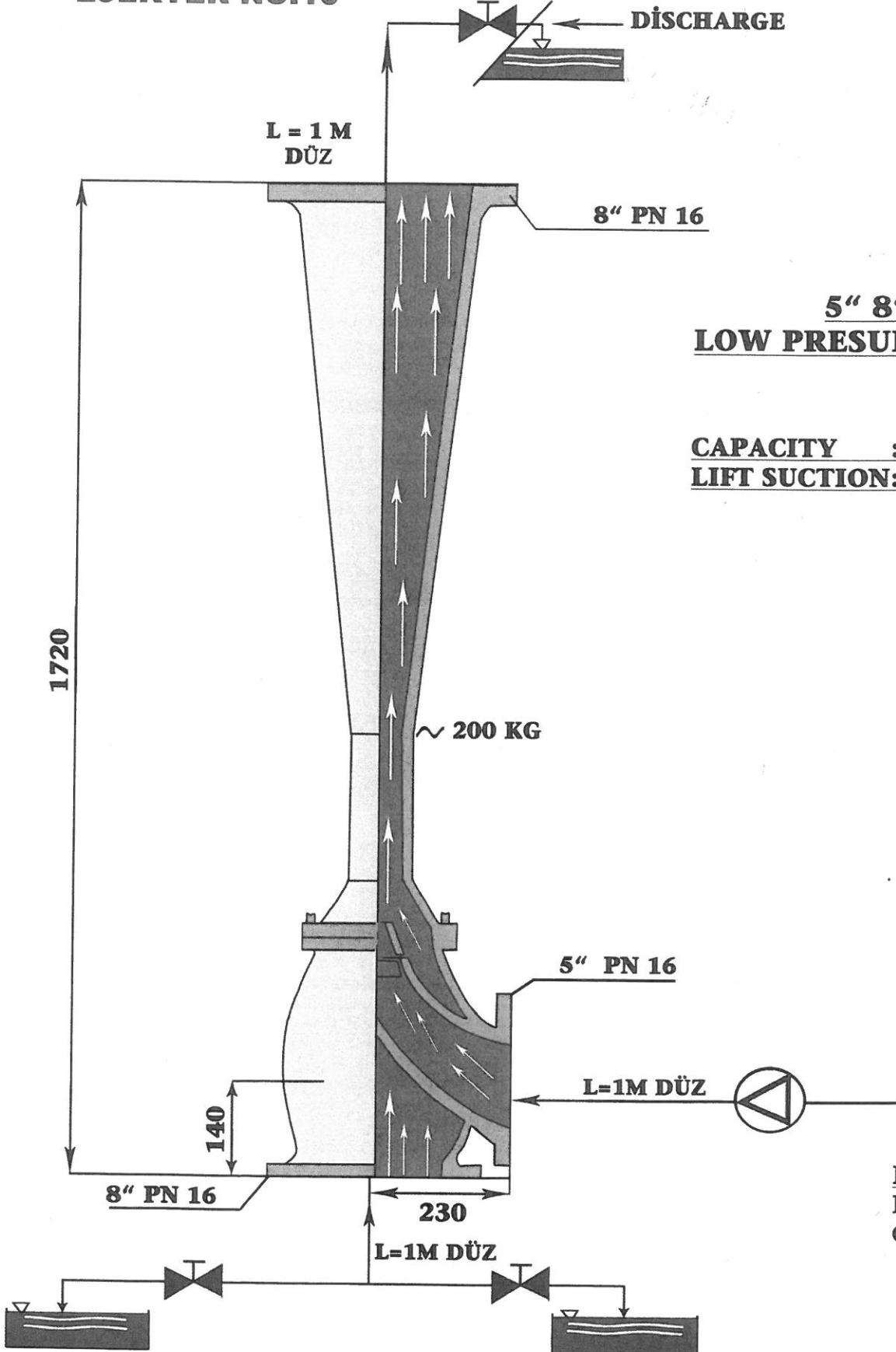
- Delivery Head 25 m
- Suction Lift 3 m
- Drive Water Consumption 600 m³/h
- Drive Water Pressure 2,5 - 3 Bar
- Suction Capacity 200 m³/h



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EJEKTER NO:10



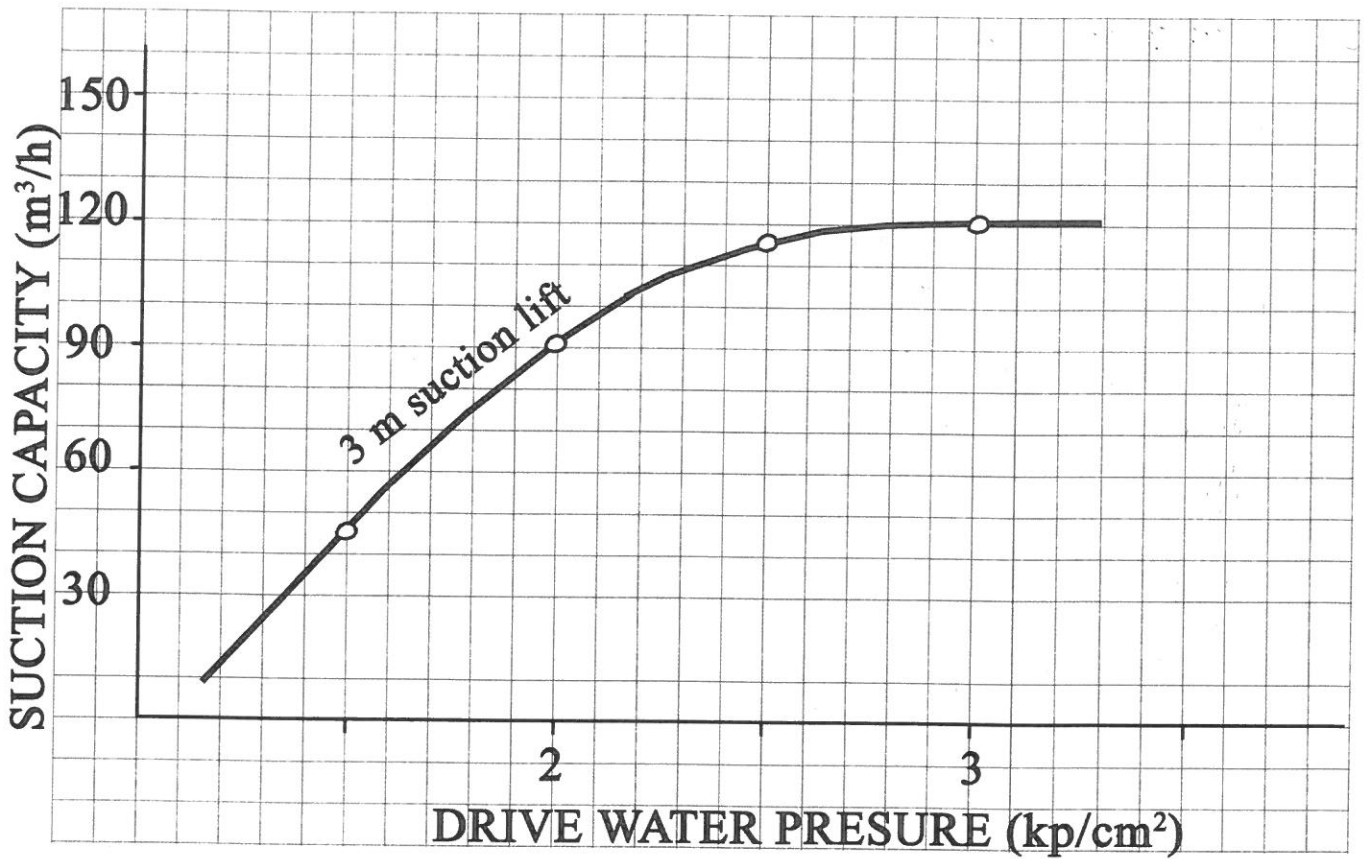
5" 8" 8" LOW PRESURE EJECTER

CAPACITY : 110 m³/h
LIFT SUCTION: 3 m

DRIVE POMP
P: 3 bar
Q: 400 m³/h

EJEKTER NO:10

5" 8" 8"
LOW PRESURE EJEKTER



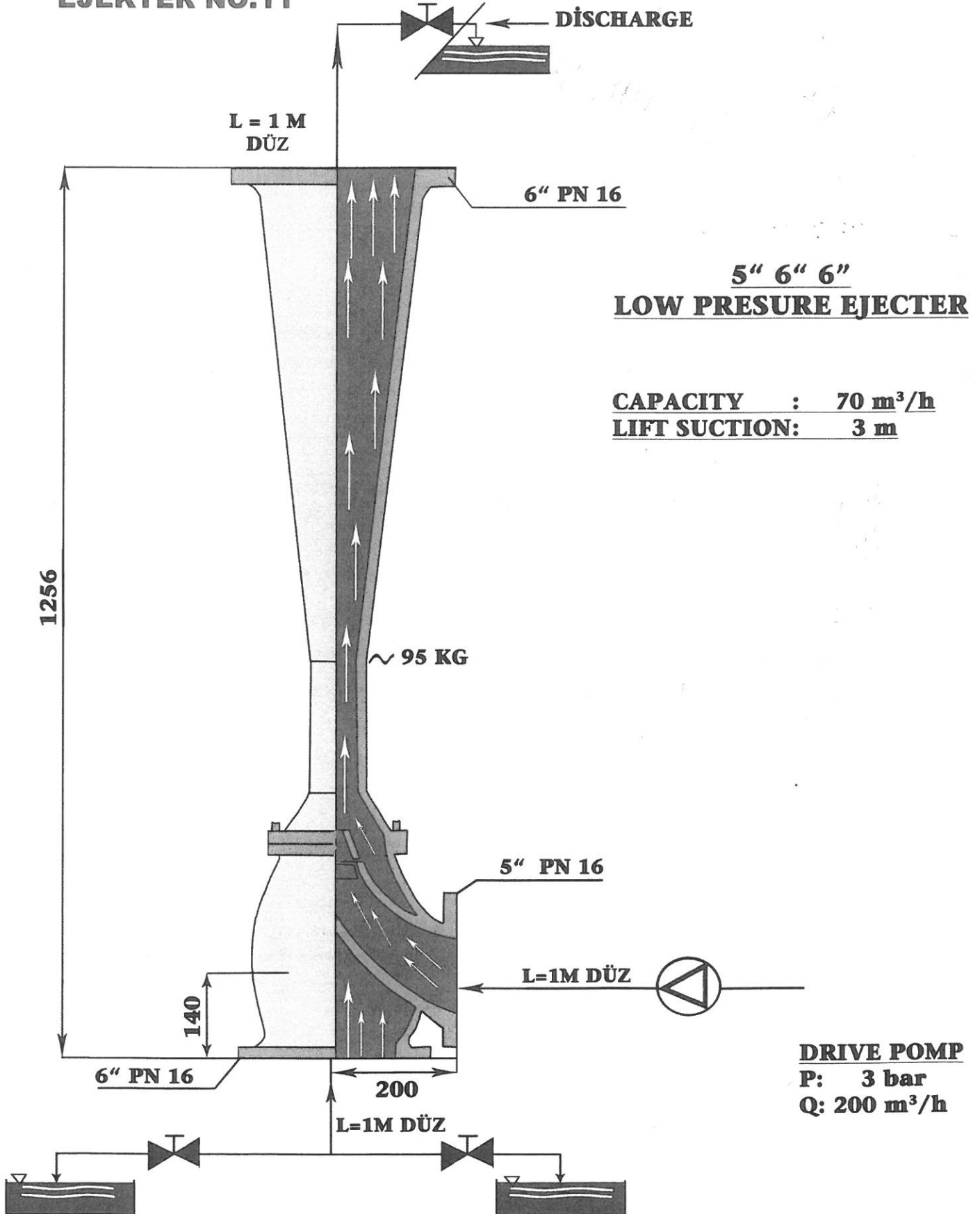
- Delivery Head 15 m
- Suction Lift 3 m
- Drive Water Consumption 400 m³/h
- Drive Water Pressure 3 Bar
- Suction Capacity 110 m³/h



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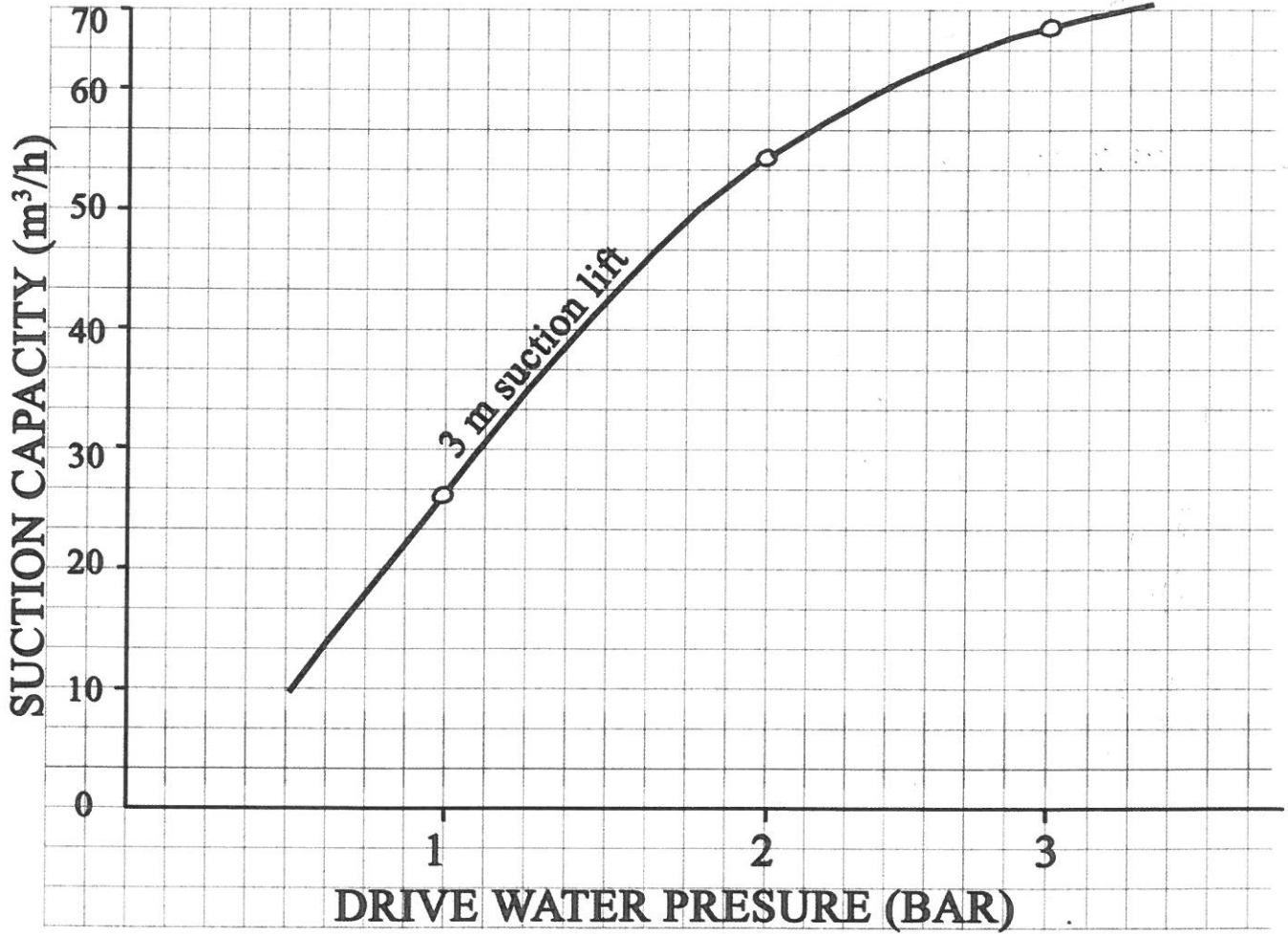
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EJEKTER NO:11



EJEKTER NO:11

5" 6" 6"
HIGH PRESURE EJEKTER



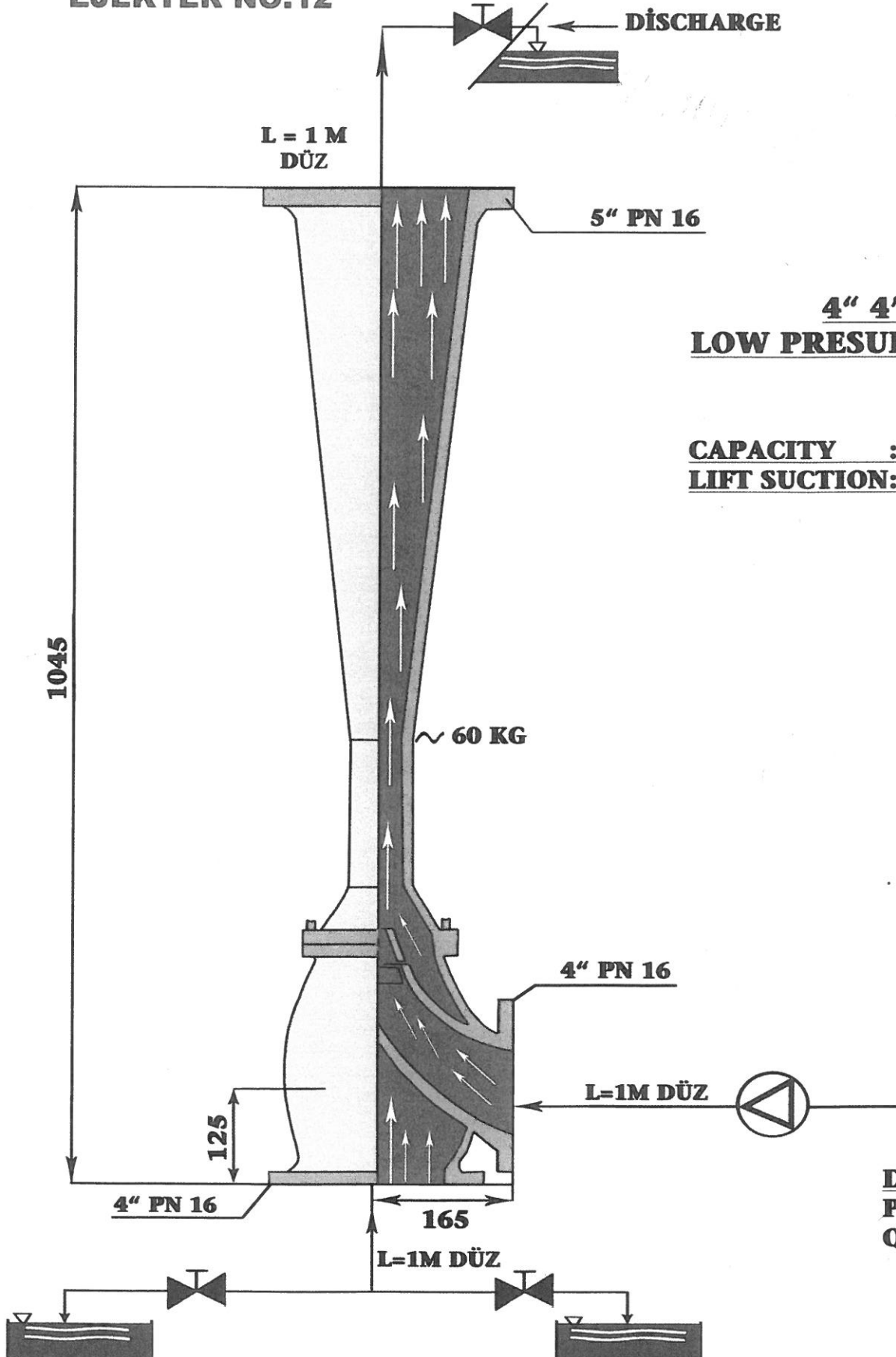
- | | |
|---------------------------|----------|
| - Delivery Head | 25 m |
| - Suction Lift | 3 m |
| - Drive Water Consumption | 200 m³/h |
| - Drive Water Pressure | 3 Bar |
| - Suction Capacity | 70 m³/h |



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EJEKTER NO:12



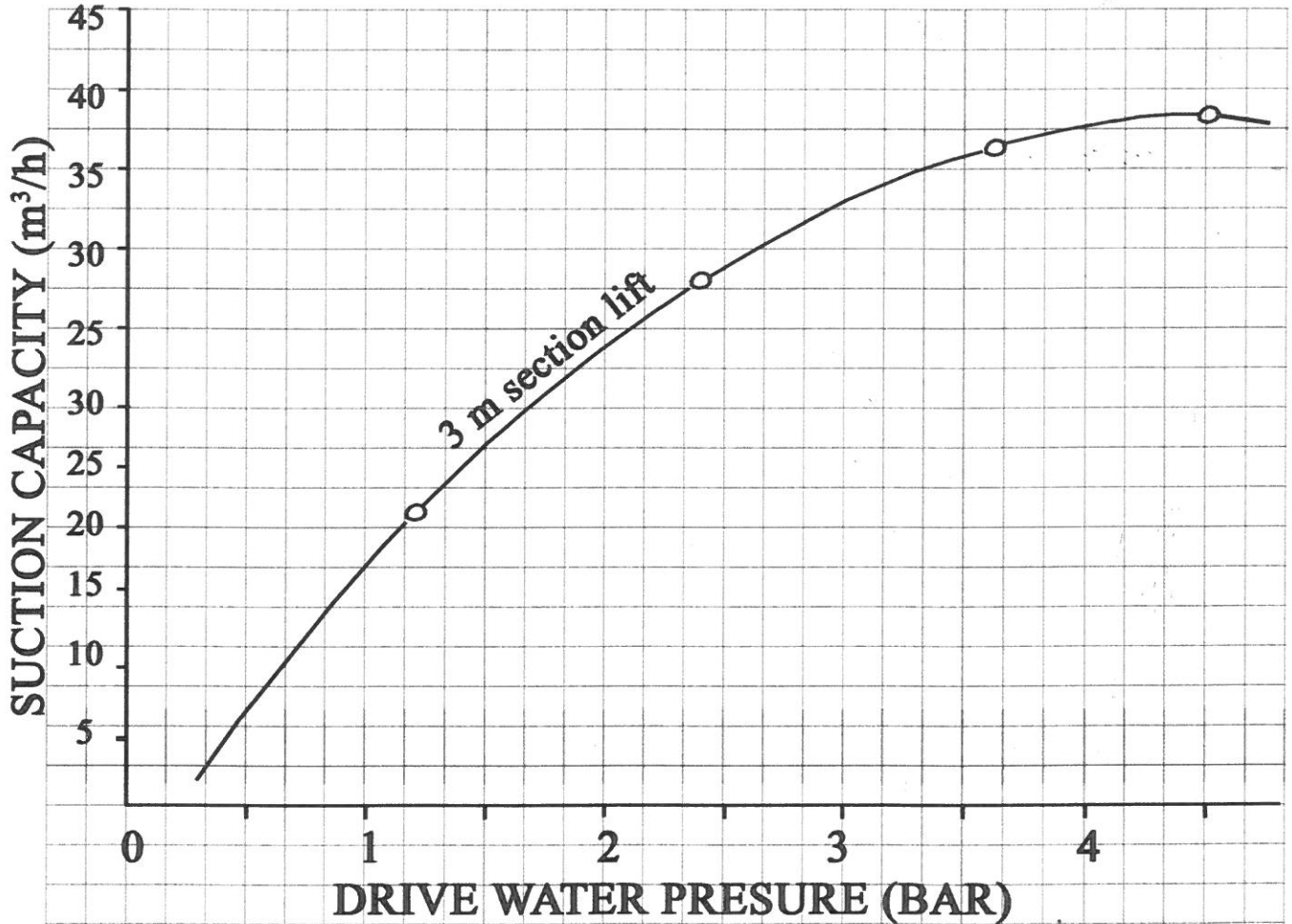
4" 4" 5" **LOW PRESURE EJECTER**

CAPACITY : 40 m³/h
LIFT SUCTION: 3 m

DRIVE PUMP
P: 2,5-3 bar
Q: 110 m³/h

EJEKTER NO:12

4" 4" 5"
LOW PRESURE EJEKTER



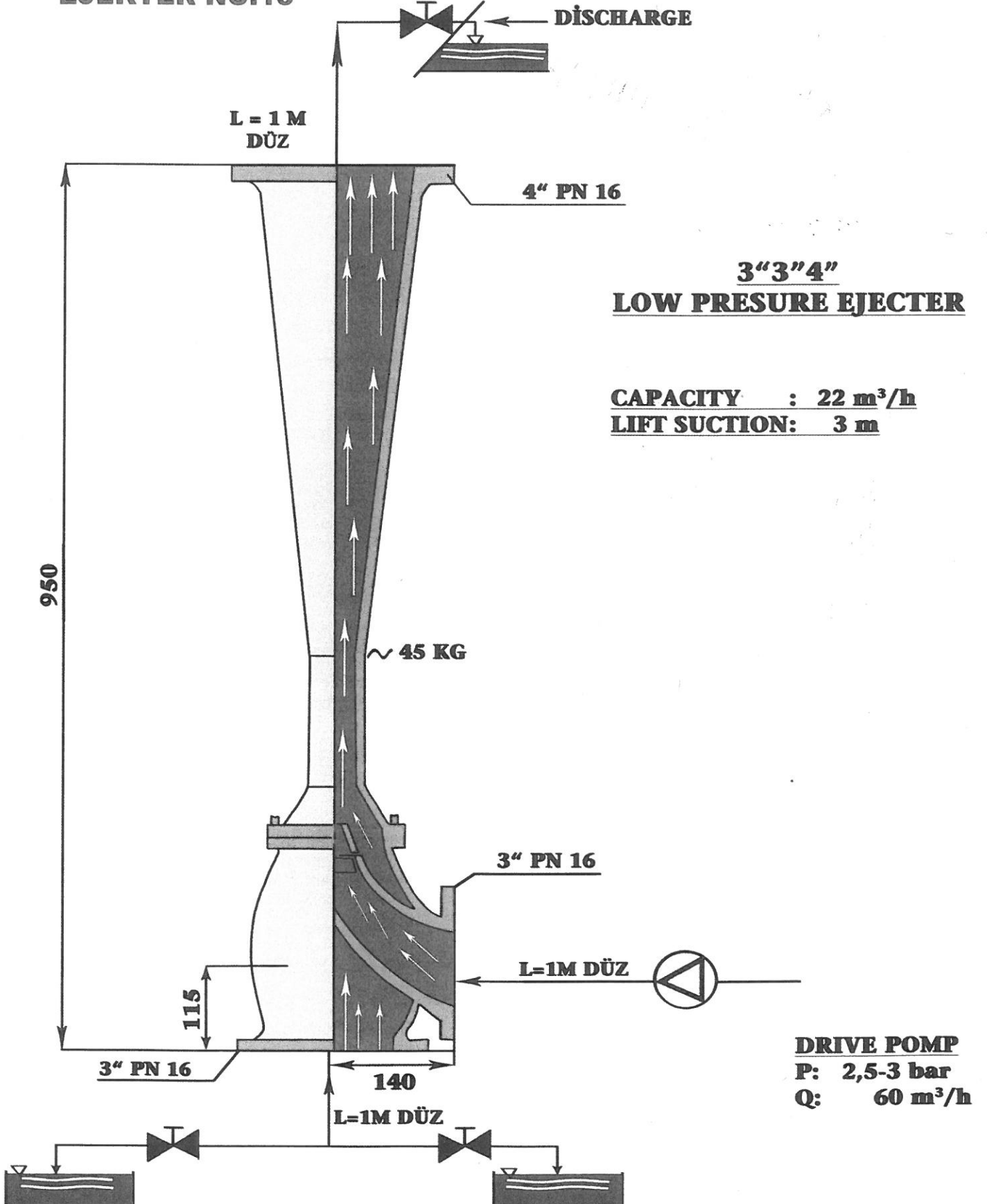
- Delivery Head 15 m WC
- Section Lift 3 m
- Drive Water Consumption min 110 m³/h
- Drive Water Pressure 3 Bar
- Suction Capacity 40 m³/h



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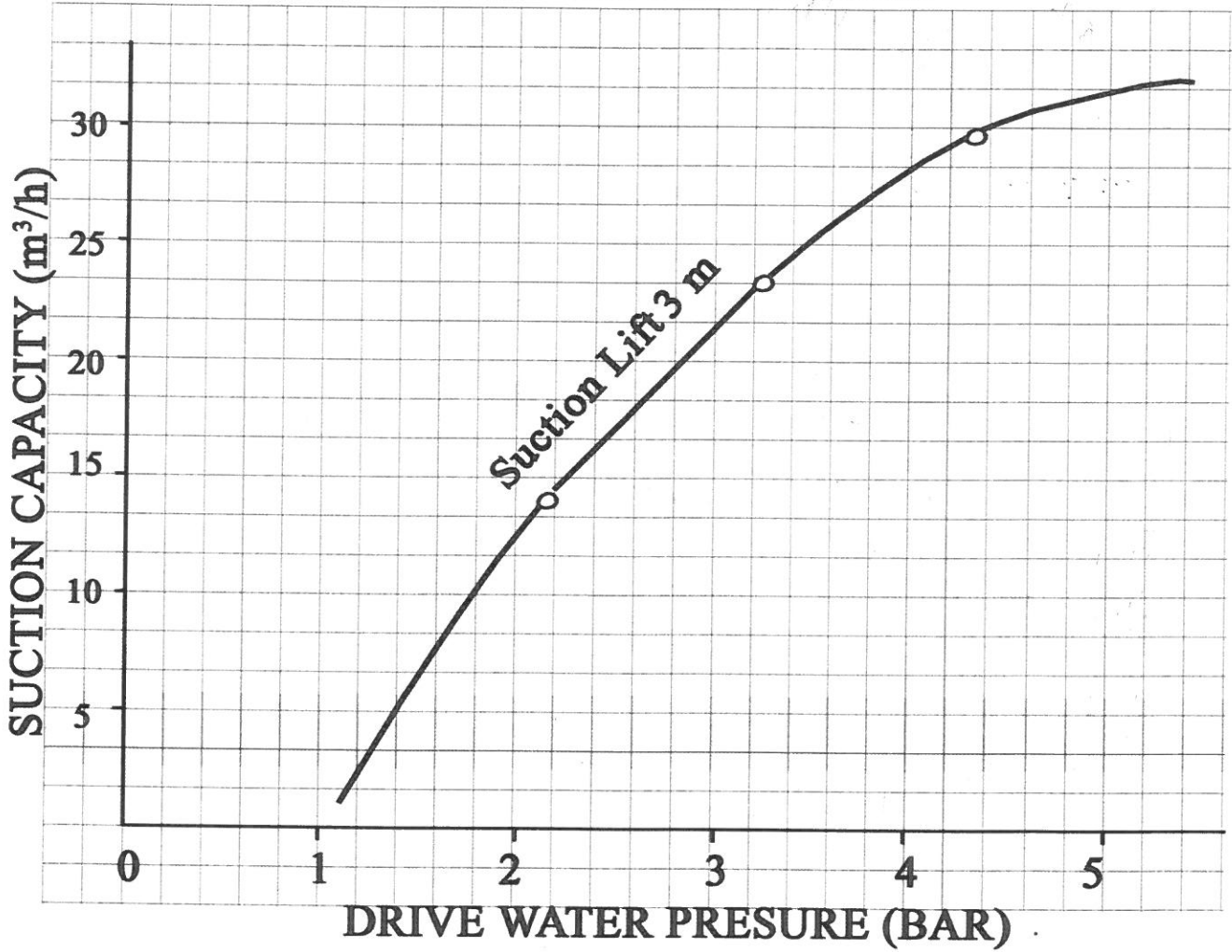
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EJEKTER NO:13



EJEKTER NO:13

3" 3" 4"
LOW PRESURE EJEKTER



- Delivery Head 20 m
- Suction Lift 3 m
- Drive Water Consumption min 60 m³/h
- Drive Water Pressure 3 Bar
- Suction Capacity 22 m³/h



MARINE DIVISION

Certificate number: SMS.W.II./96322/A.0

www.veristar.com

RECOGNITION FOR BV MODE II SCHEME

**IMPRO METAL METALURJI DOKUM MAKINA SAN.TIC.LTD STI
ISTANBUL - TURKEY**

Summary of the range of the recognition which is detailed in the subsequent page(s):
Casting (manufacture) of Electrolytic Copper and Copper Alloys
(Electrolytic Copper, Gunmetals, Aluminium Bronze, Tin Bronze, Manganese Bronze, Brass, etc.)

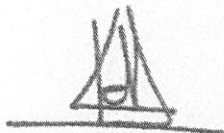
This certificate is issued to attest that BUREAU VERITAS has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the manufacturing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 28 Jan 2018

For BUREAU VERITAS,

At BV ISTANBUL, on 28 Jan 2014,

Cafer Tekkan



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 697 May 2009

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