



OSCAR INDUSTRY SA
www.oscarindustry.gr

**INSTALLATION HANDBOOK
HYDRAULIC LIFTING TABLE**

OS/A/2Ψ/3000

‘English translation of the original instructions’



HYDRAULIC LIFTING TABLE INSTALLATION INSTRUCTIONS

(According to machinery directives 98/37/EC, 2006/42/EC and EN 1570 Standard)

1. GENERAL INFORMATION

1.1 Range of application

OS/A/2Ψ/3000 lifting tables conform to the Machinery directives 98/37/EC, 2006/42/EC and EN 1570 Standard

1.2 Information concerning the product

1.2.1 Scope of supply

The scope of hydraulic lifting table is recommended for installations under EU directives 98/37/EC and 2006/42/EC and always within the system's range application.

1.2.2 Manufacturer

The product is manufactured by:

OSCAR INDUSTRY SA, Industrial Area Of Larissa, Greece
Tel: 0030 2410 541.450, 0030 2410 541.154, Fax: 00302410 541.370, P.O. Box 1244
Email: oscar@otenet.gr, site www.oscarindustry.gr

1.2.3 NOTATIONS



DANGER: This symbol indicates your attention for highly possibility for person injures. The instruction that are marked with this symbol must strictly followed



Warning: This symbol suggest your attention to information that if are not take into consideration it may cause injury or extended product damage.



Attention: This symbol suggests your attention to important directives of use. Neglecting these instructions may lead to product damage.



Important Notice

1.2.4 TERMS

Reproduction of the whole or part of the specific manual is not allowed, without the written approval of the manufacturer.

2. TRANSPORTATION AND TEMPORARY STORAGE

2.1 Safety measures

All the large and heavy components should be lifted to their position by means of a lifting mechanism. During lifting the components should be balanced. Additionally the lifting mechanism's capacity should be sufficient for the task.

2.2 Transportation

Try to avoid damages during transportation. Secure components from accidental falling. All packed parts should be carefully transported and all packing notes warnings should be strictly respected.

2.3 Unpacking of components

Thoroughly check the consignment for any possible damages or missing parts right after reception.

Notify the manufacturer immediately in written for any problems regarding the consignment. Complaints that are notified to the manufacturer long after the reception of the consignment will not be accepted. Remove all packing material prior to installation.

2.4 Temporary storage

Some of the components are usually supplied in primer finished or galvanized. They should be protected against humidity.

Check all packed components regularly for the possible existence of condensed water that could cause wear of the machine and other electrical parts.

2.5 Precaution



If components are to remain stored longer than predicted the client should perform regular checks of the effectiveness of precautions. Kleemann will not be responsible for the failure during storage.

2.6 Protection from environmental conditions

The storage area should be dry and free from dust. Protection against time can only be achieved through proper packaging and storage.

2.8 Installation instructions

- Before you place the machine in the pit, connect the electric parts, lift the machine up, to the proper height. Engage the service pole
- After disengaging the service pole place the machine in the pit.
- Measure the level distance between the floor and the platform. Be sure they are at the same level.
- Install the guide rails.

2.9 Maintenance

- Keep the pit clean and remove any waste in case the platform is placed outside.
 - Keep the path of the rails clean.
 - Every three (3) months lubricate the edge of the pistons depending the frequency of the use
 - Every three (3) months check the level of the hydraulic oil and fill if it is necessary. If you detect any reduction on the level of the oil check the hydraulic system, the flexible pipe and the pistons for any leak.
 - Every six (6) months check the wirings for any damage.
 - Every three (3) months check the terminal switches, clean them and adjust in case they do not function correctly.
 - Every three (3) years change the elastic tube. If the conditions are unfavorable you might have to change it more often.
 - Check for any damages and generally the good operation of the platform
-

3. Troubleshooting

3.1 Usual dysfunctions

The motor does not function

- Check the fuses of the electrical table
- Check the thermic engine
- Check the handling buttons
- Check the terminal rise
- Check the relay of motor

The motor is working but the platform does not rise

- Check the direction of the rotation of motor
- Check the pipes for any damage
- Check the magnetic valve (possible blocking)

The platform does not descent

- Check the central rele C₀
- Check the terminals of the safety bars (if exists)
- Check the valve (possible blocking)
- Check the inductor of valve (possible burnt)

All the above are usual damages.If the damage persists please contact us.

3.2 Usual misuse of the machine

Bad use	Consequence	Danger
Overloading	-deflection of scissors - Detachment of scissors - deflection of floor	Extremely high
Wrong position of the load	Deflection of scissors	High (Material damage)
Loading from the long side of platform (special constructions excluded)	Deflection of scissors	Medium (Material damage)
Specific load (big load on a small surface)	Deflection of floor	Small (Material damage)
High speed during the descent	Strain of scissors and the system - Breaking of pins -pipes	High (Material damage -possible injuries)
Abrupt placement of the load	Extreme strain of the system(special constructions excluded)	

3.3 First Use and Special operation occasions

First use

During the first use, you must :

- Press the general switch .
- Operate the platform without any cargo.

Long term interruption of operation

In case the platform won't be used for a long time , you must :

- Lower the platform to the lower level.
- Turn off the general switch and the power supply.
- Cover the hydraulic system with waterproof cover.
- Cover the switches and the electrical table.

Use after a long term interruption of operation

In case you want to use the platform after a long time , you must :

- Remove any cover
 - Check the level of the oil
 - Lubricate the pistons .
 - Make a visual check for anything unusual
 - Supply the platform with power
 - Operate the platform without any cargo
-



4. General Description

OS/A/2Ψ/3000 scissor vehicle lifting table is a single scissor mechanism with two pistons, which are attached to the connection beams that connect the external and internal scissor arms to each other. The scissor speed is not constant but changes due to transmission mode.

Platform dimensions: 3020x5740mm

Rated load: 3000 Kg

Travel: 5350 mm

Stops:3



INSTALLATION INSTRUCTIONS FOR THE SCISSOR PLATFORM



Before performing any operation consult the instructions of the book



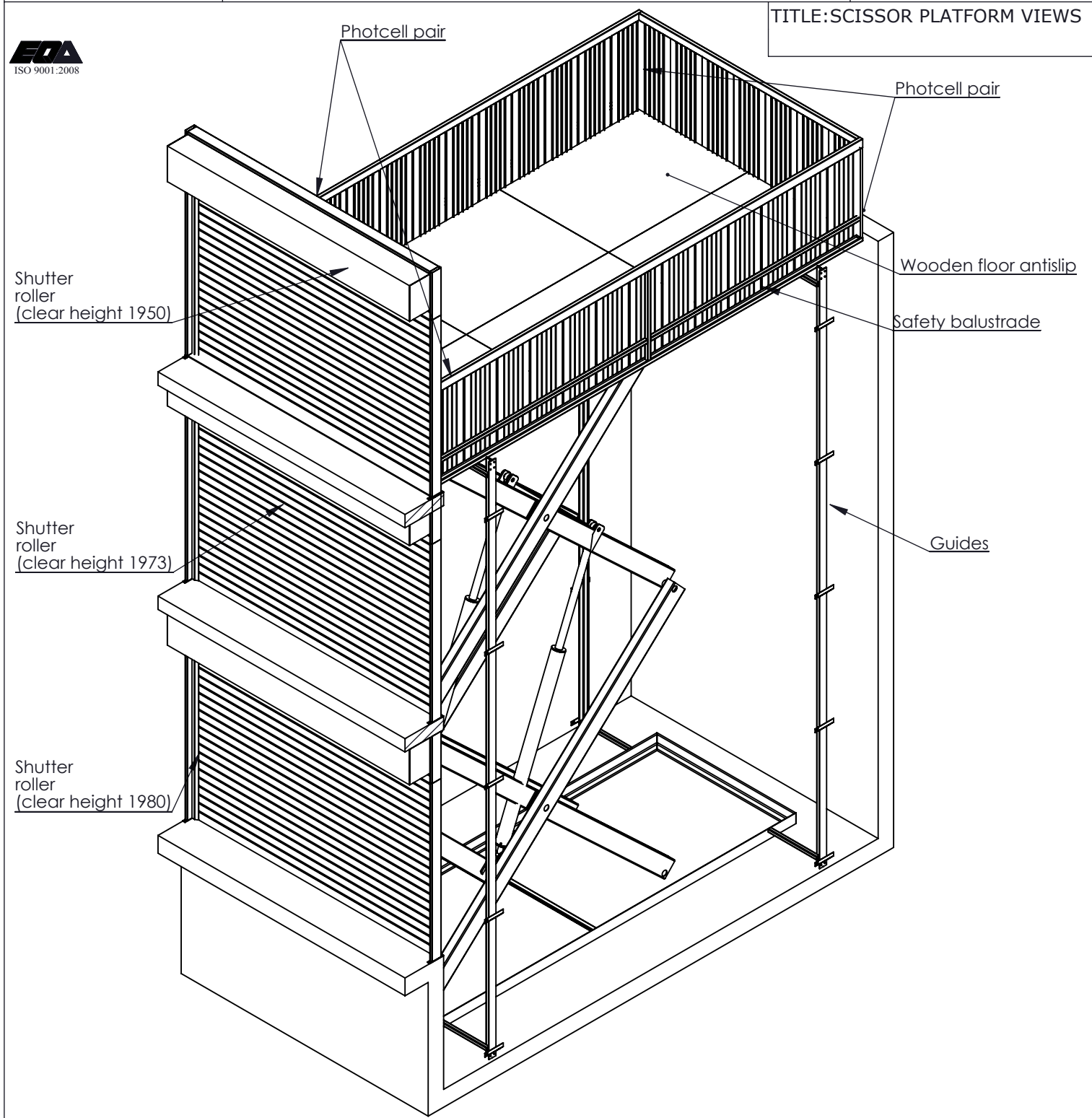
a) Tie the straps through the slots located on 4 edges of the machine

b) Download the machine in the shaft

c) Peg and bolt down the machine on the ground



OS/A/2Ψ	KLEEMANN	OF/OS/AΨ/13/3220
MACHINE TYPE	CLIENT NAME	Sheet Num.



CUSTOMER SIGNATURE
 Customer's signature declares the customer's approval of the design according to the specified technical information and dimensions
 Date.....Signature.....

DIMENSION SPECIFICATIONS ACCORDING TO EN STANDARDS

OSCAR S.A

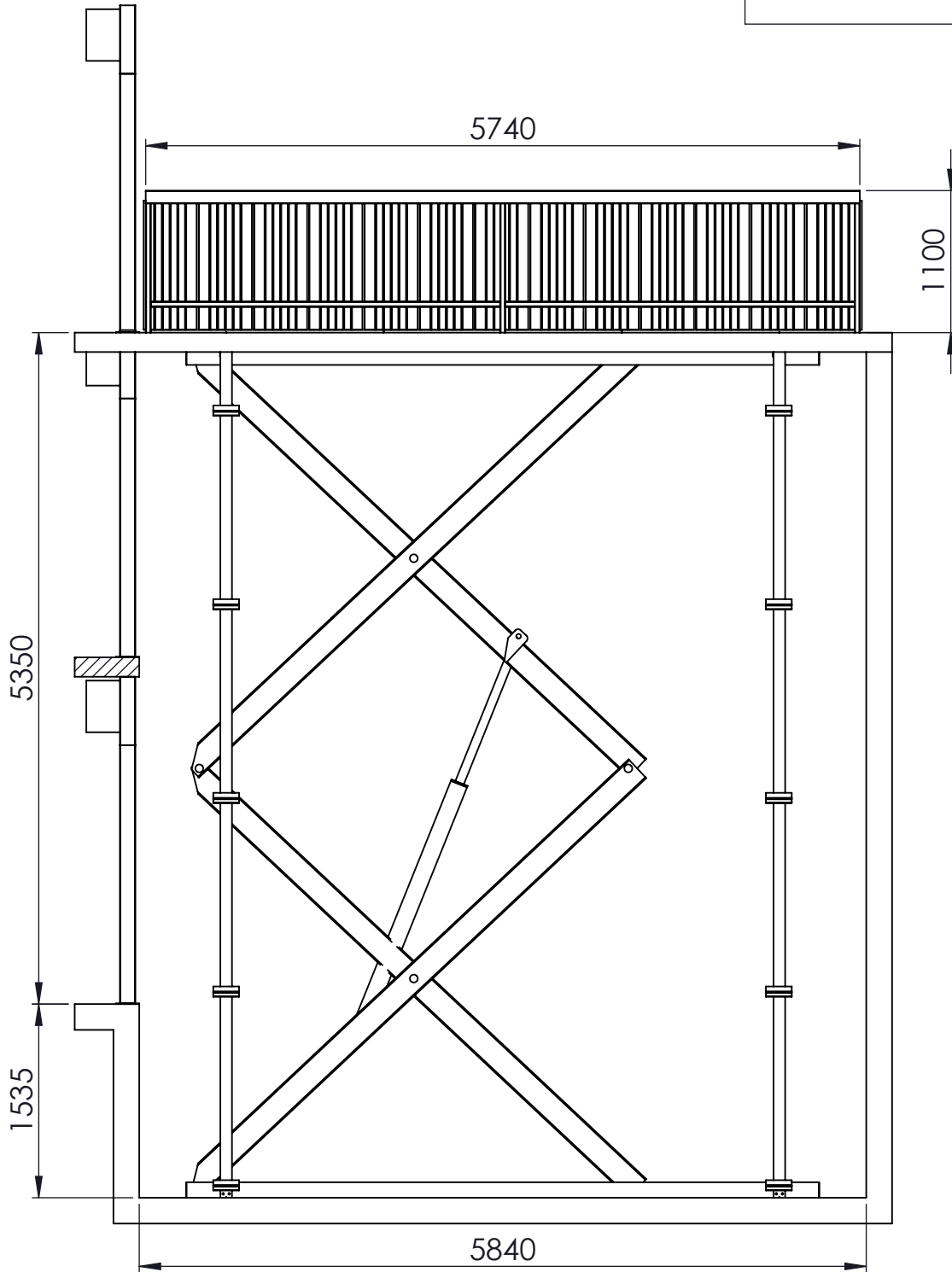
KLEEMANN™

Your 1st Choice in Lifts

TECHNICAL DATA			DATE	NAME	SIGNATURE
LIFTING CAPACITY	2500 kg	SPEED	DESIGNED		
TRAVEL	5350 mm	0.06-0.10 m/sec	CHECKED		
SHAFT DIMENSIONS	3320 x 5840 mm	STOPS	REVISIONS		
PLATFORM DIMENSIONS	3020 x 5740 mm	2			
SHAFT DEPTH	1535 mm min				
MOTOR	7.5 HP/ 380V				

OS/A/2Ψ	KLEEMANN	OF/OS/AΨ/13/3220
MACHINE TYPE	CLIENT NAME	Sheet Num.

TITLE: SCISSOR PLATFORM VIEWS



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DIMENSION SPECIFICATIONS ACCORDING TO EN STANDARDS



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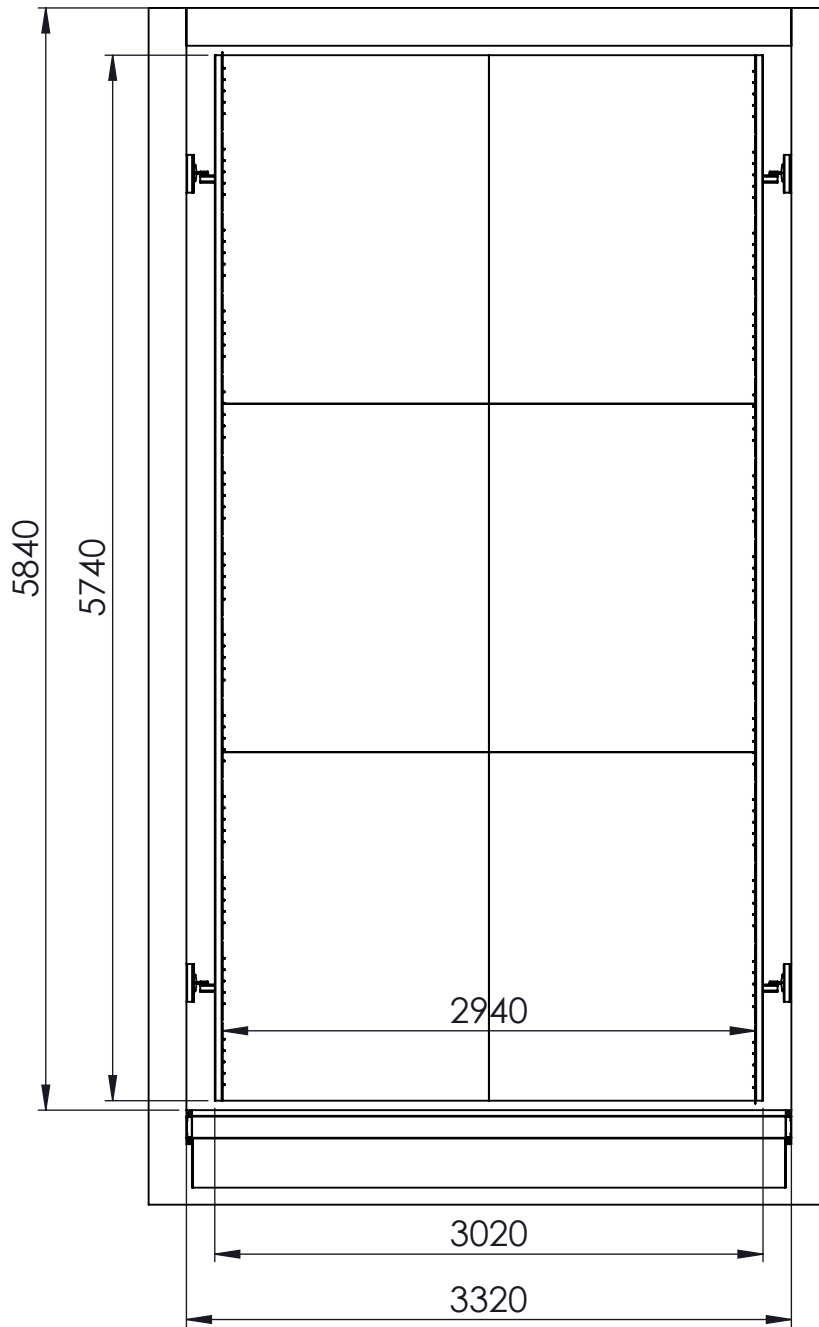
KLEEMANN™
Your 1st Choice in Lifts

TECHNICAL DATA

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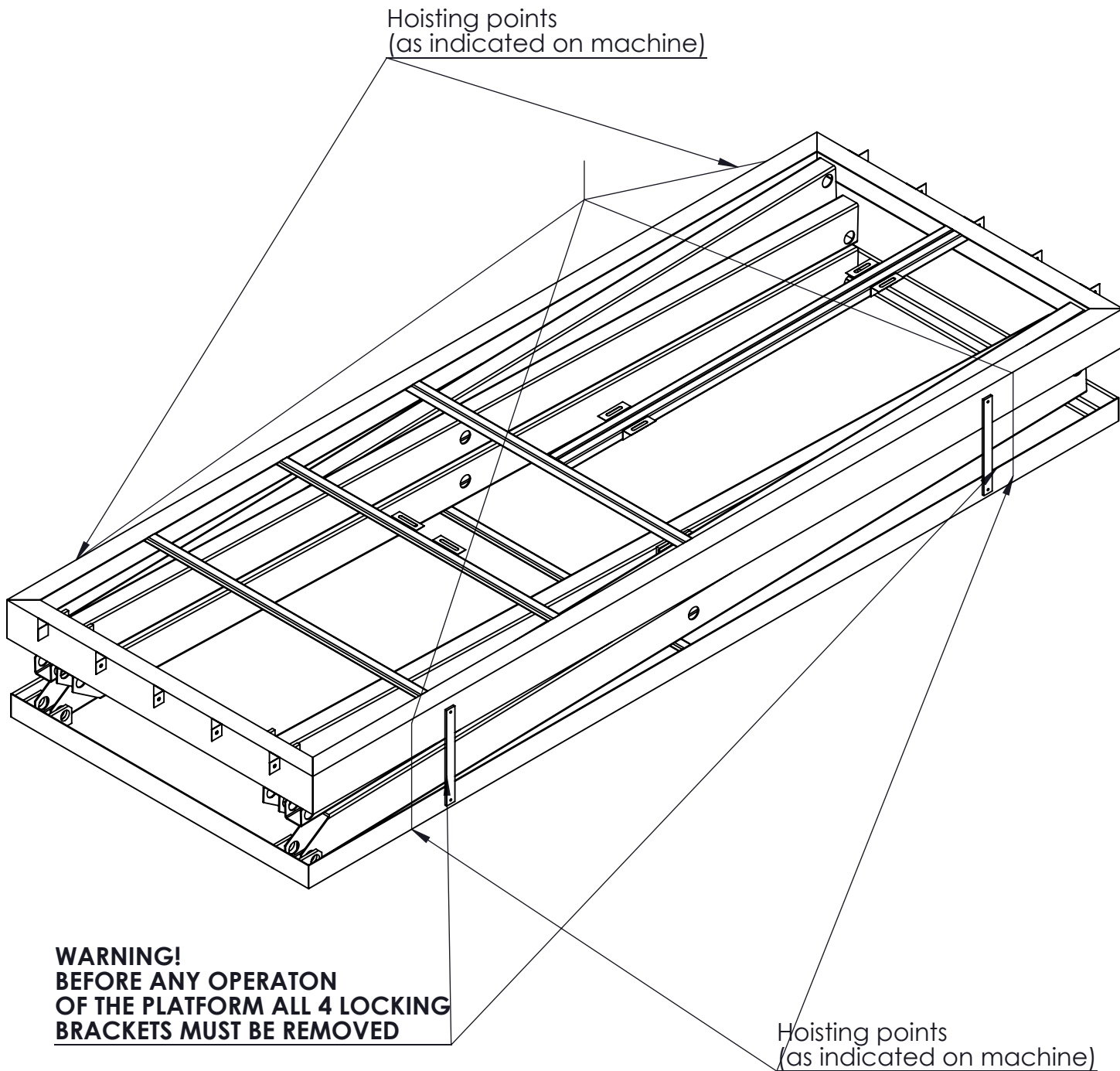


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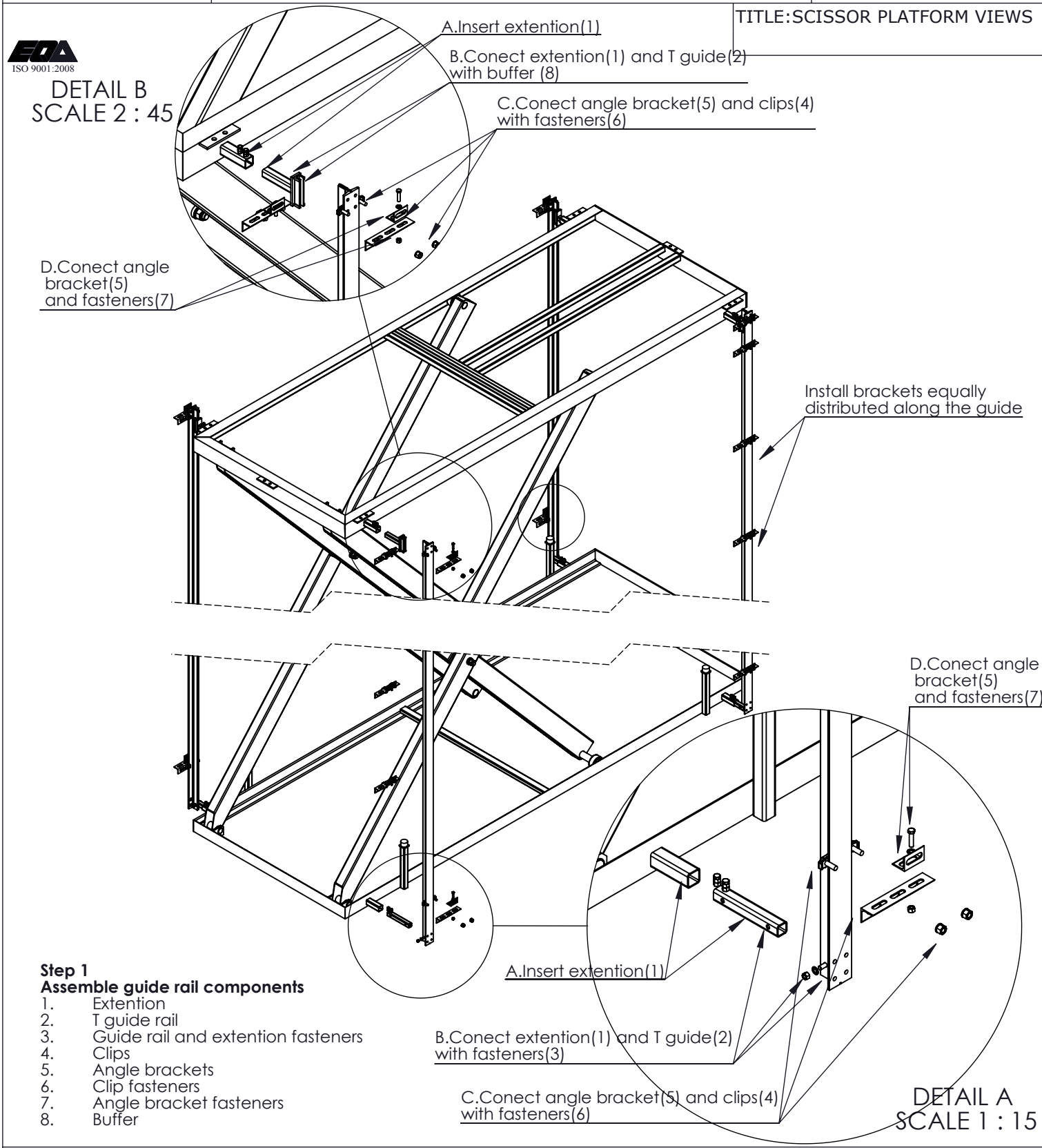
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 Industrial Area Of Larissa, e-mail: oscar@otenet.gr
 tel: 0030 2410 541.268 - 541.450, FAX: 0030 2410 541370, P.O. BOX 1244, Area Zip Code 41110



TECHNICAL DATA

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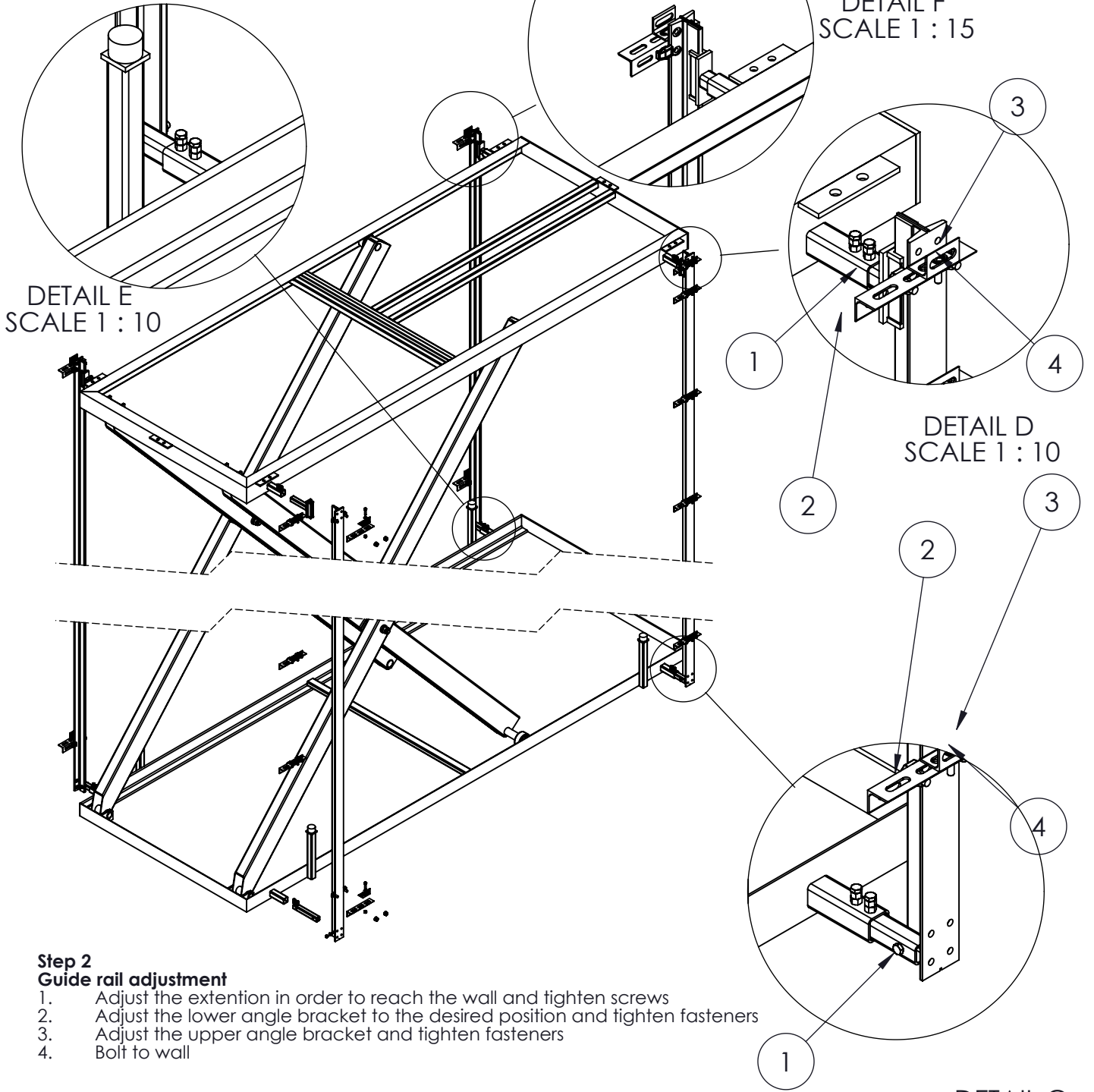
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SHAFT DIMENSIONS	3320 x 5840 mm	STOPS	REVISIONS		
PLATFORM DIMENSIONS	3020 x 5740 mm	2			
SHAFT DEPTH	1535mm				
MOTOR	7.5 HP/ 380V				

Auxiliary view of assembled guide

TITLE: SCISSOR PLATFORM VIEWS



Auxiliary view of assembled guide



Step 2
Guide rail adjustment

1. Adjust the extension in order to reach the wall and tighten screws
2. Adjust the lower angle bracket to the desired position and tighten fasteners
3. Adjust the upper angle bracket and tighten fasteners
4. Bolt to wall

DETAIL C
SCALE 1 : 10



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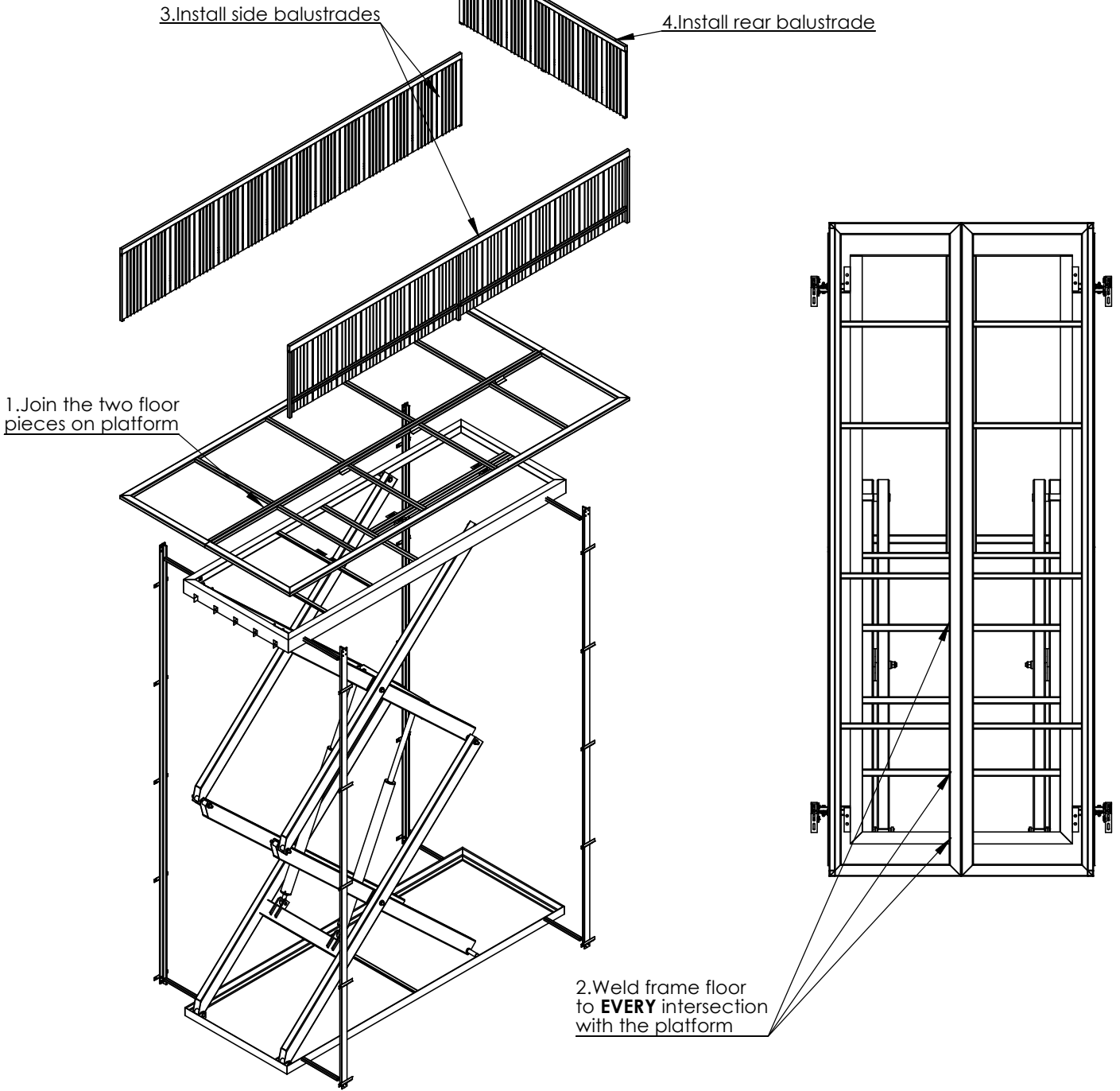
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PLATFORM DIMENSIONS	3020 x 57400 mm	2			
SHAFT DEPTH	1535 mm				
MOTOR	7.5 HP/ 380V				

OS/A/2Ψ	KLEEMANN	OF/OS/AΨ/13/3220
MACHINE TYPE	CLIENT NAME	Sheet Num.

TITLE: SCISSOR PLATFORM VIEWS



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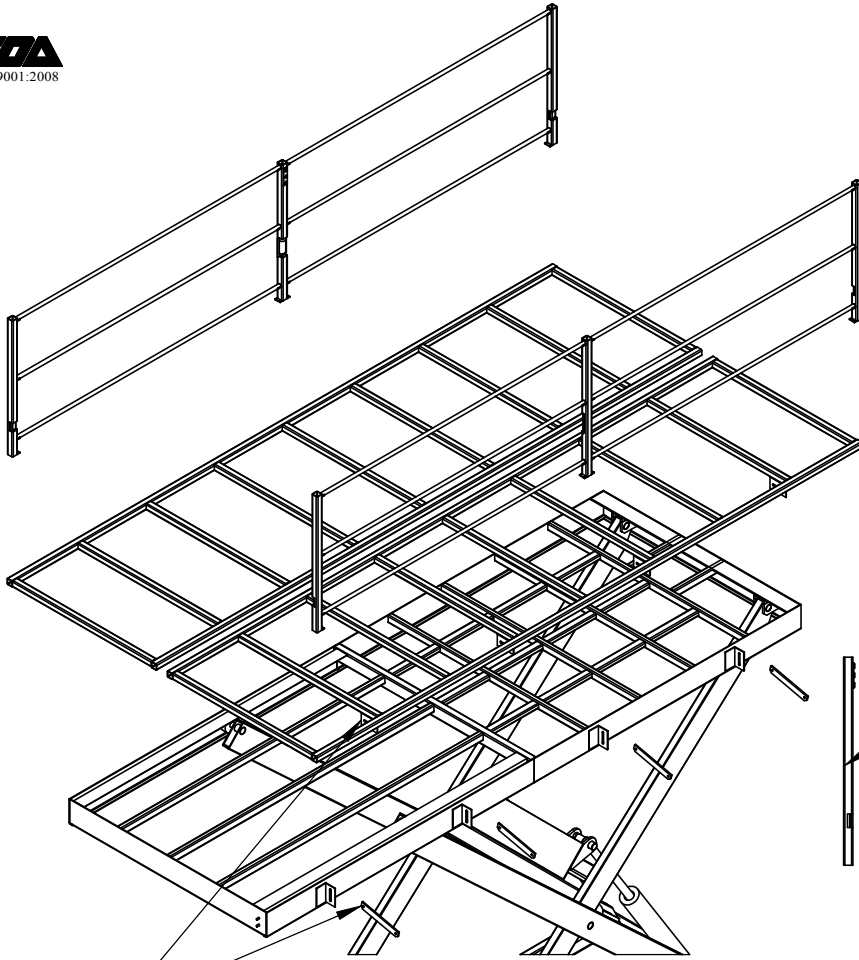
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TRAVEL	5350 mm	0.06-0.10 m/sec	CHECKED		
SHAFT DIMENSIONS	3320 x 5840 mm	STOPS	REVISIONS		
PLATFORM DIMENSIONS	3020 x 5740 mm	2			
SHAFT	SolidWorks Detached drawing - Out-of-Sync Print				
MOTOR	7.5 HP/ 380V				

OS/A/2Ψ	KLEEMANN	OF/OS/AΨ/13/3220
MACHINE TYPE	CLIENT NAME	Sheet Num.

TITLE: SCISSOR PLATFORM VIEWS



Schemes may vary for convenience purposes



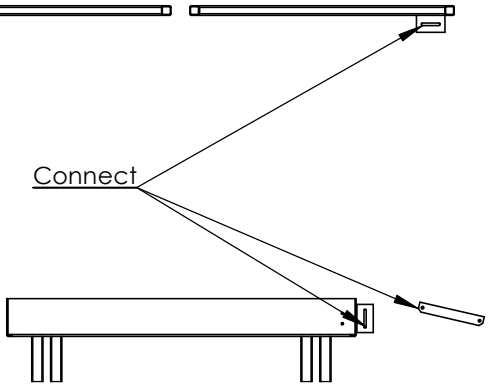
Screw banisters on floor frame



Connect

Screw floor frame first on platform

Connect



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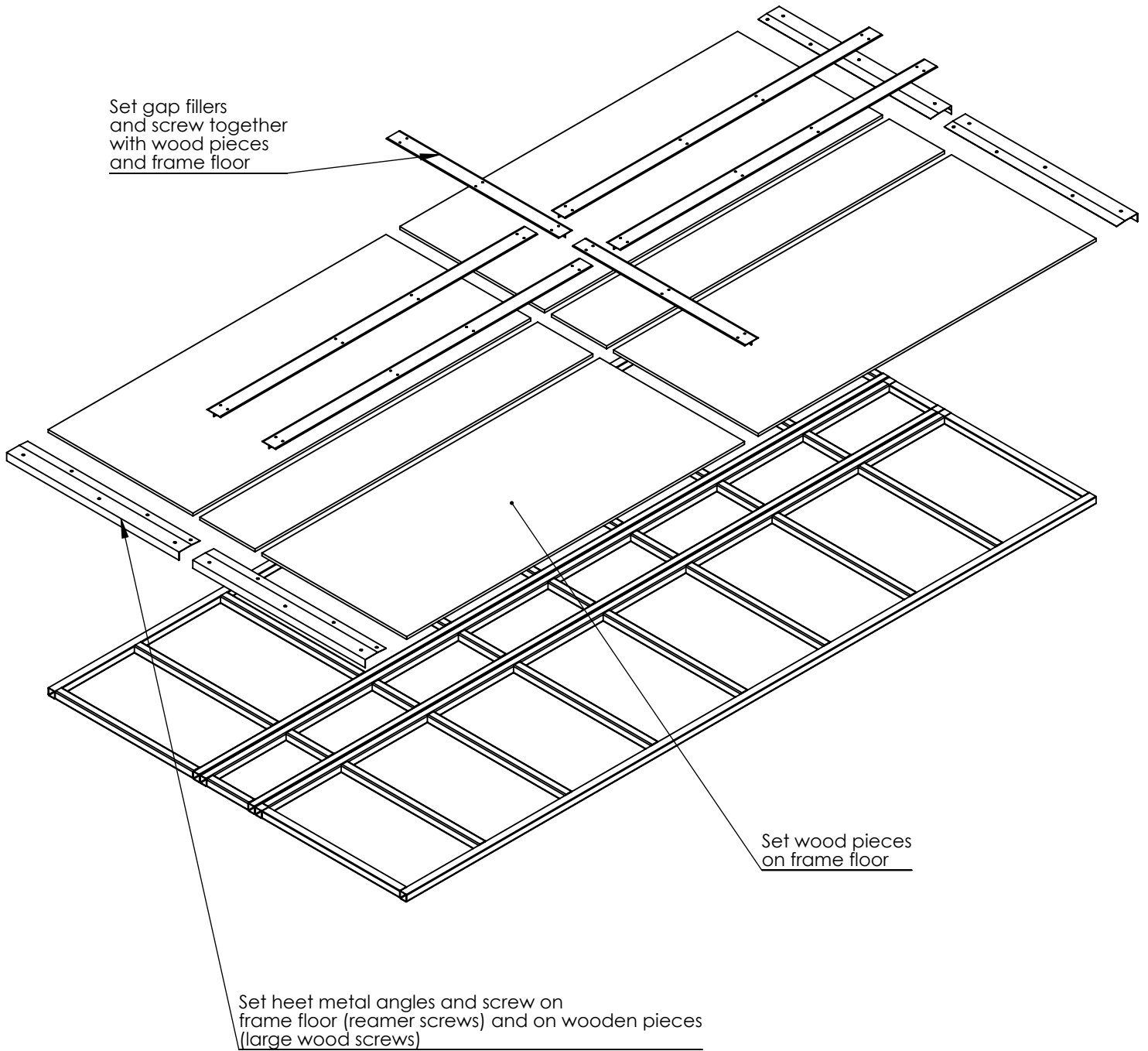
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SHAFT	SolidWorks Detached drawing - Out-of-Sync Print				
MOTOR	7.5 HP/ 380V				



Schemes may vary from machine for convenience purposes



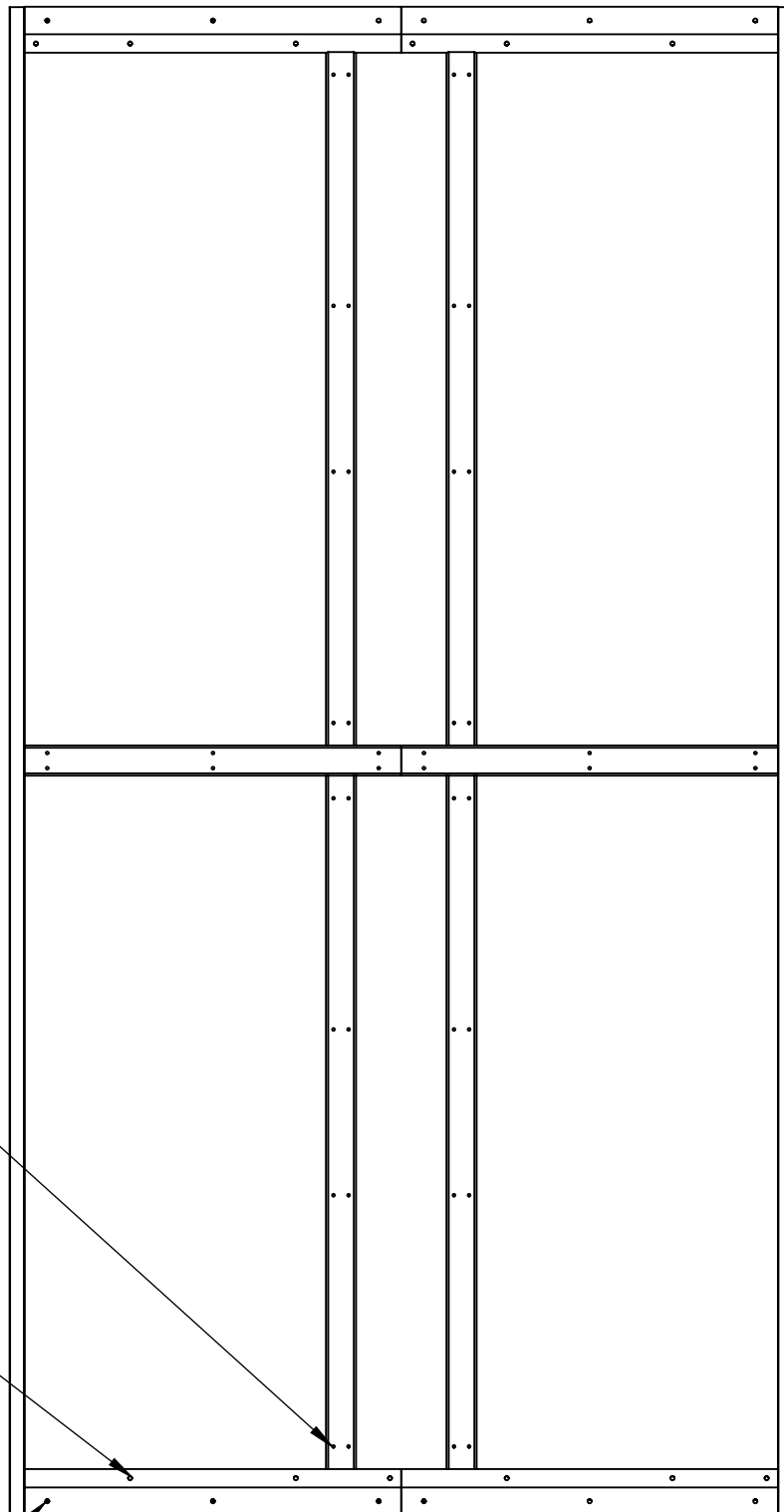
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DESIGNED	TECHNICAL DATA				TITLE: Floor Assembly
DATE	LIFTING CAPACITY	3000 Kg	MOTOR		
SIGNATURE	TRAVEL	5350 mm	7.5 Hp /380V		
CHECKED	SHAFT DIMENSIONS	3320x 5840mm	SPEED		MACHINE TYPE: OS/A/2Ψ
TOLERANCES	EN	PLATFORM DIMENSIONS	3020 x 5740 mm	0.06 / 0.10 m/sec	
SCALE		SHAFT DEPTH	1535 mm	STOPS: 3	



Small wood screws (44 pieces)

Large wood screws (12 pieces)

Reamer screws (12 pieces)



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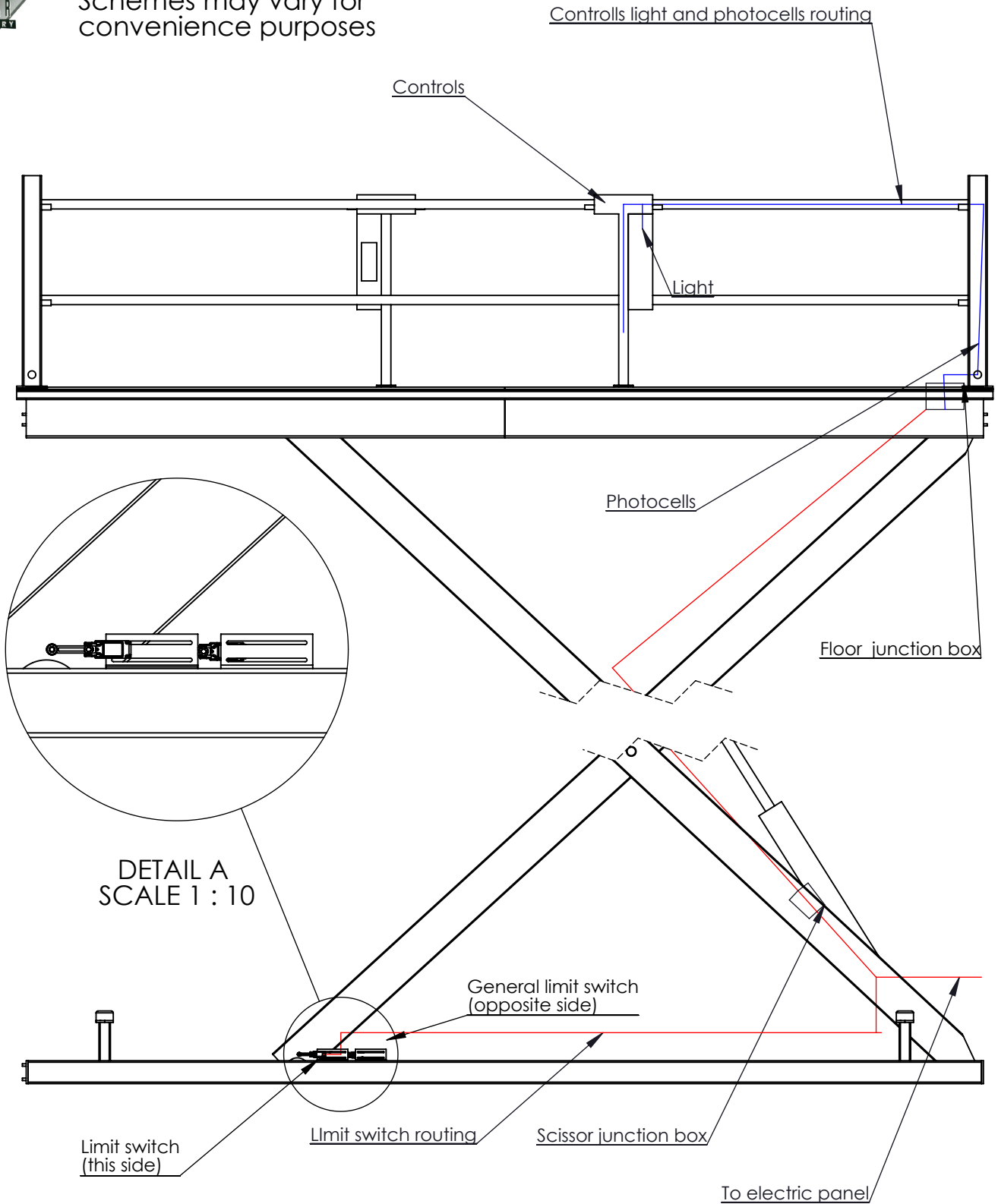
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SIGNATURE	TRAVEL	5350 mm	7.5 Hp /380V		
CHECKED	SHAFT DIMENSIONS	3320 x 5840 mm	SPEED	MACHINE TYPE: OS/A/2Ψ	
TOLERANCES	EN	PLATFORM DIMENSIONS	3020 x 5740 mm		0.06 / 0.10 m/sec
SCALE		SHAFT DEPTH	1535 mm		STOPS: 3



Schemes may vary for convenience purposes



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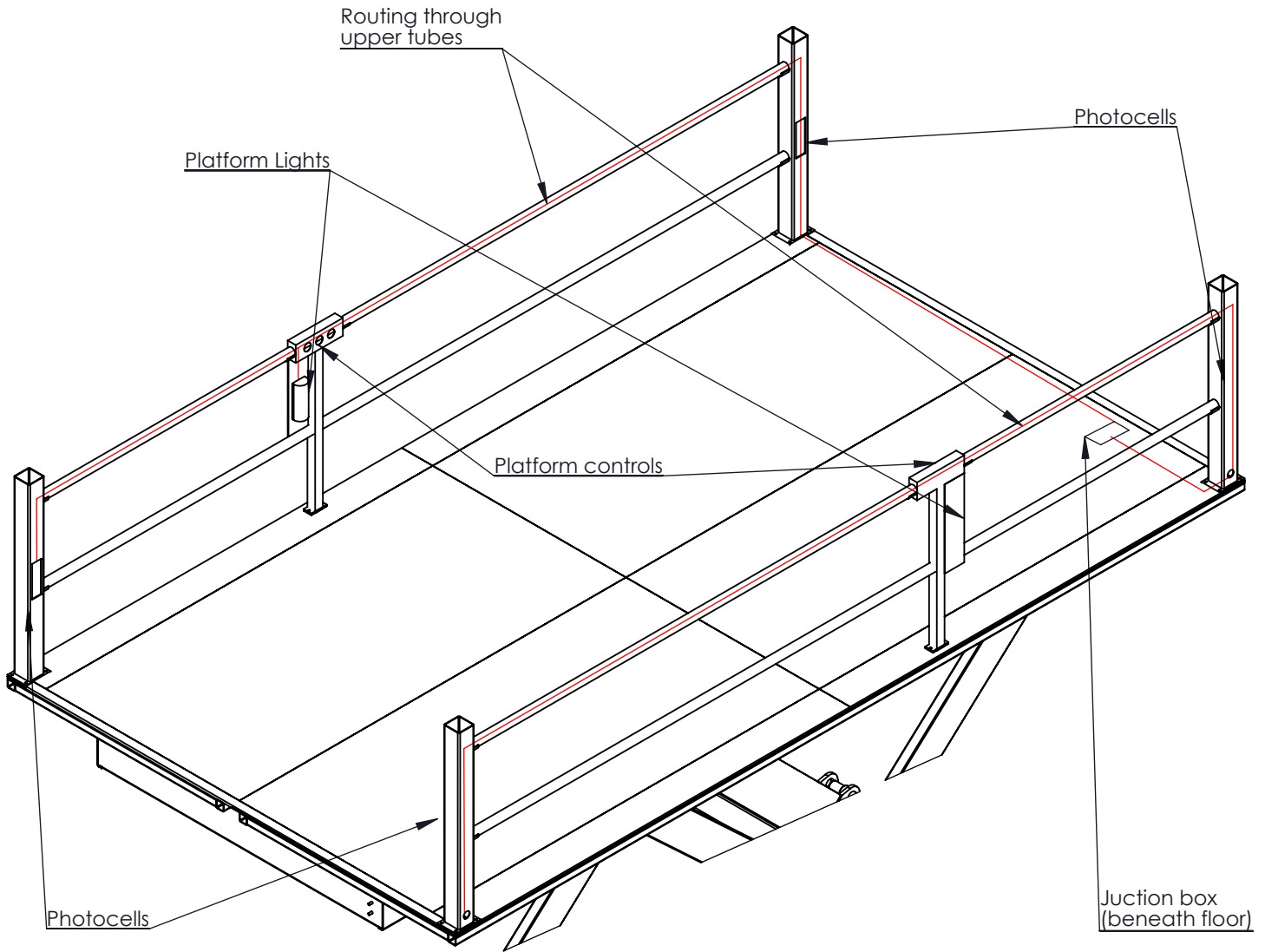
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tel: 0030 2410 541.268 - 541.450, FAX: 0030 2410 541370, P.O. BOX 1244, Area Zip Code 41110

DESIGNED	TECHNICAL DATA				TITLE: Limit Switch Electrical Routing and floor components electrical routing
DATE	LIFTING CAPACITY	3000 Kg	MOTOR		
SIGNATURE	TRAVEL	5350 mm	7.5 Hp / 400V		
CHECKED	SHAFT DIMENSIONS	3320 x 5840 mm	SPEED		
TOLERANCES	EN	PLATFORM DIMENSIONS	3020 x 5740 mm	0.06-0.15 m/sec	MACHINE TYPE: OS/A/2Ψ/3000
SCALE		SHAFT DEPTH	1535 mm	STOPS:2	



Schemes may vary for convenience purposes



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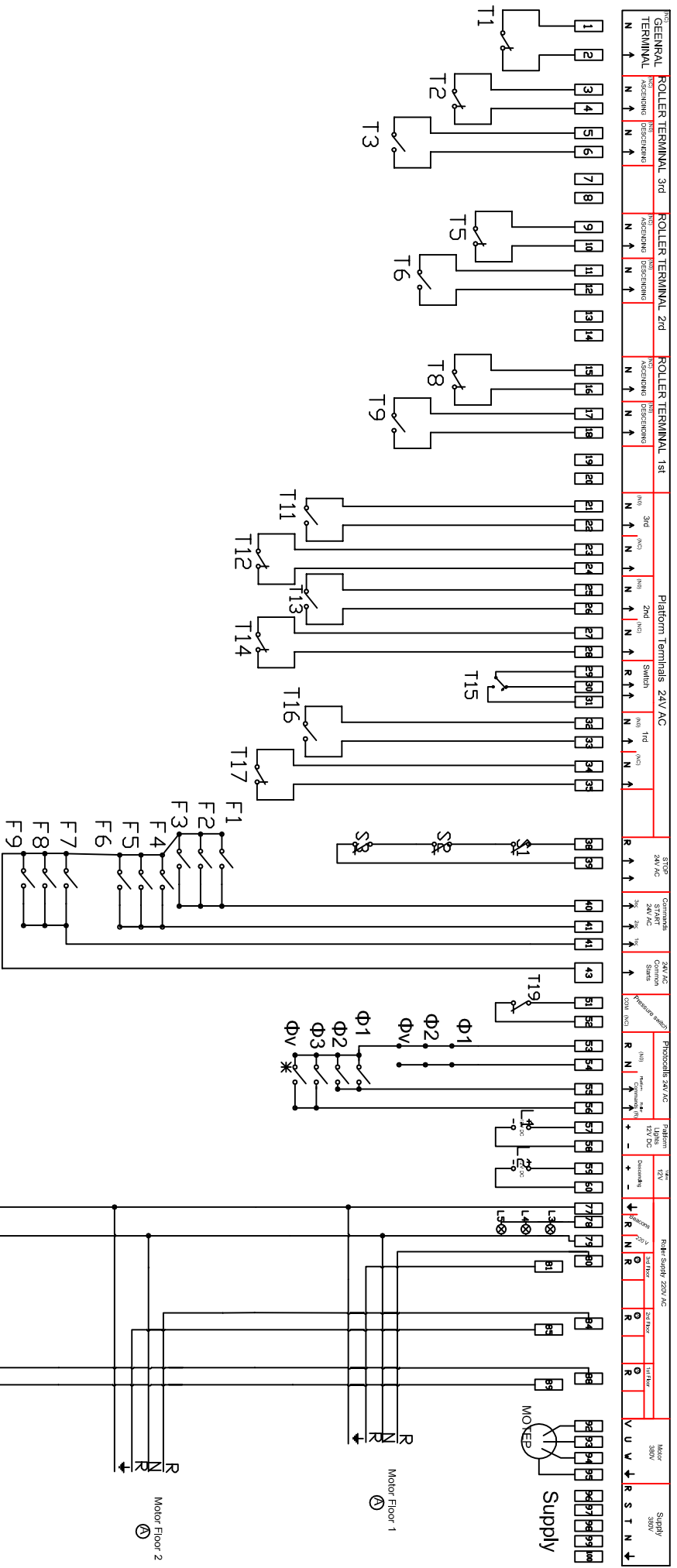
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tel: 0030 2410 541.268 - 541.450, FAX: 0030 2410 541370, P.O. BOX 1244, Area Zip Code 41110

DESIGNED	TECHNICAL DATA				TITLE: Controls lights and photocells routing
DATE	LIFTING CAPACITY	3000 Kg	MOTOR		
SIGNATURE	TRAVEL	5350mm	7.5 Hp / 400V		
CHECKED	SHAFT DIMENSIONS	3320 x 5840 mm	SPEED		MACHINE TYPE: OS/A/2Ψ/3000
TOLERANCES	EN	PLATFORM DIMENSIONS	3020 x 5740 mm	0.06-0.15 m/sec	
SCALE		SHAFT DEPTH	1535 mm	STOPS:2	



Electric Diagram 3 Stop with 3 Shutter Rollers



FUSES		
Num.	V AC	A
71	220	5
72	42	3
73	24	3
74	12V DC	2

* Details- Photocells connections

** Details-Shutter roller motor connections

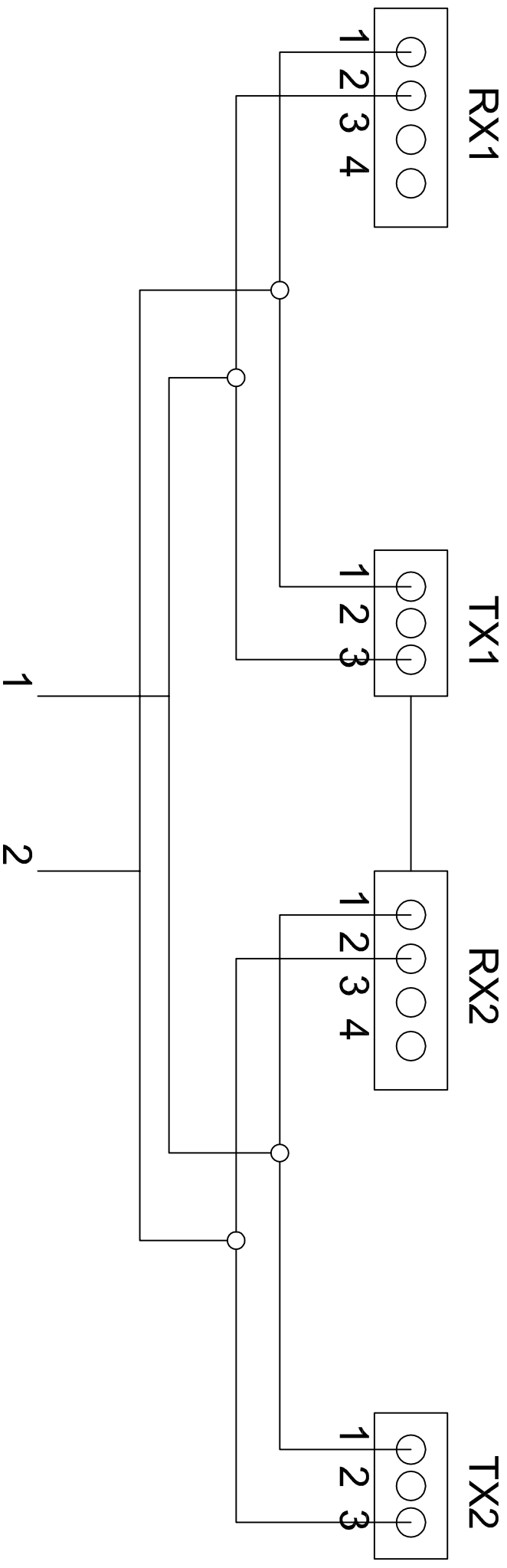
**



Terminal Switches

Terminal Switches	
T1	General
T2	Ascending Rollers 3rd
T3	Descending Rollers 3rd A
T5	Ascending Rollers 2nd
T6	Descending Rollers 2nd A
T8	Ascending Rollers 1st
T9	Descending Rollers 1st A
T11-T12	Platform 3rd
T13-T14	Platform 2rd
T15	Platform 2rd
T16-T17	Platform 1rd
S1-S2-S3	Emergency Stop
F1-F2-F3	Command-Start 3rd
F4-F5-F6	Command-Start 2nd
F7-F8-F9	Command-Start 1st
T19	Low Pressure Valve
L1	Platform Lights
L2	Descending valve
L3-L4-L5	Beacons

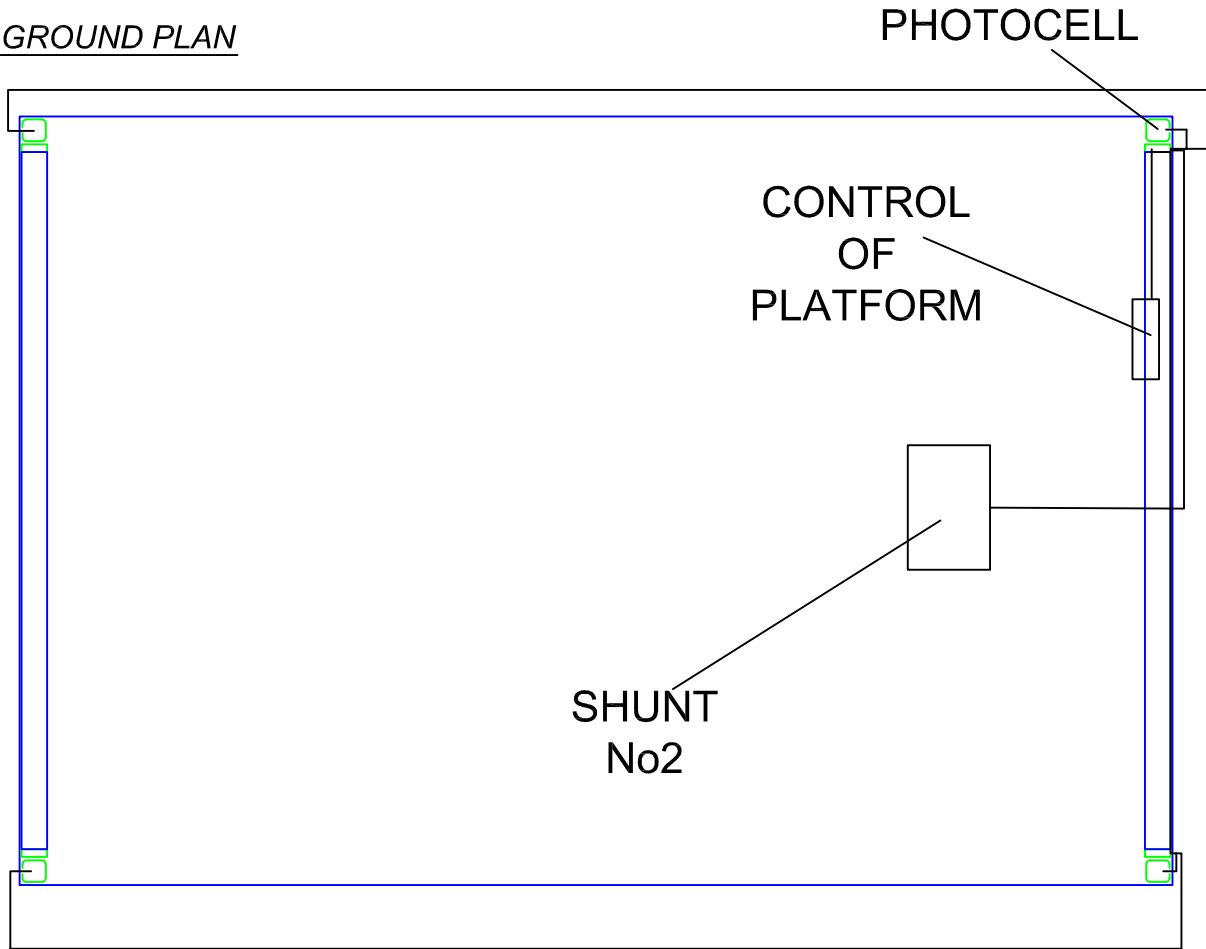
Photocells Connection



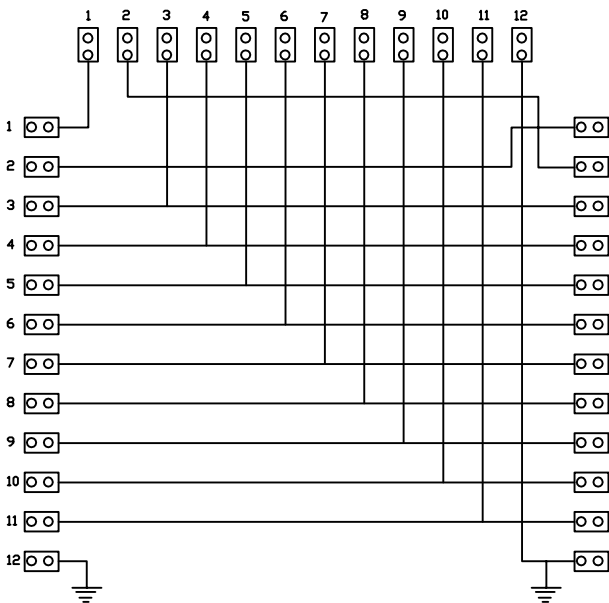
ELECTRICAL CONNECTION-2



GROUND PLAN

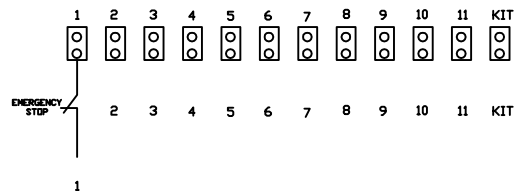


SHUNT No2

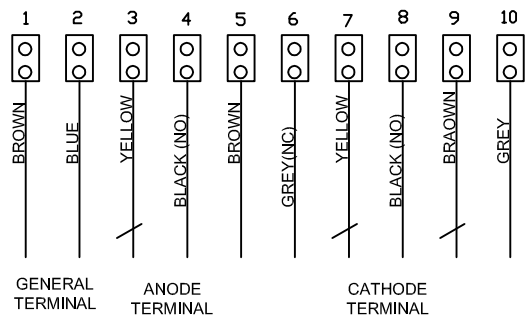


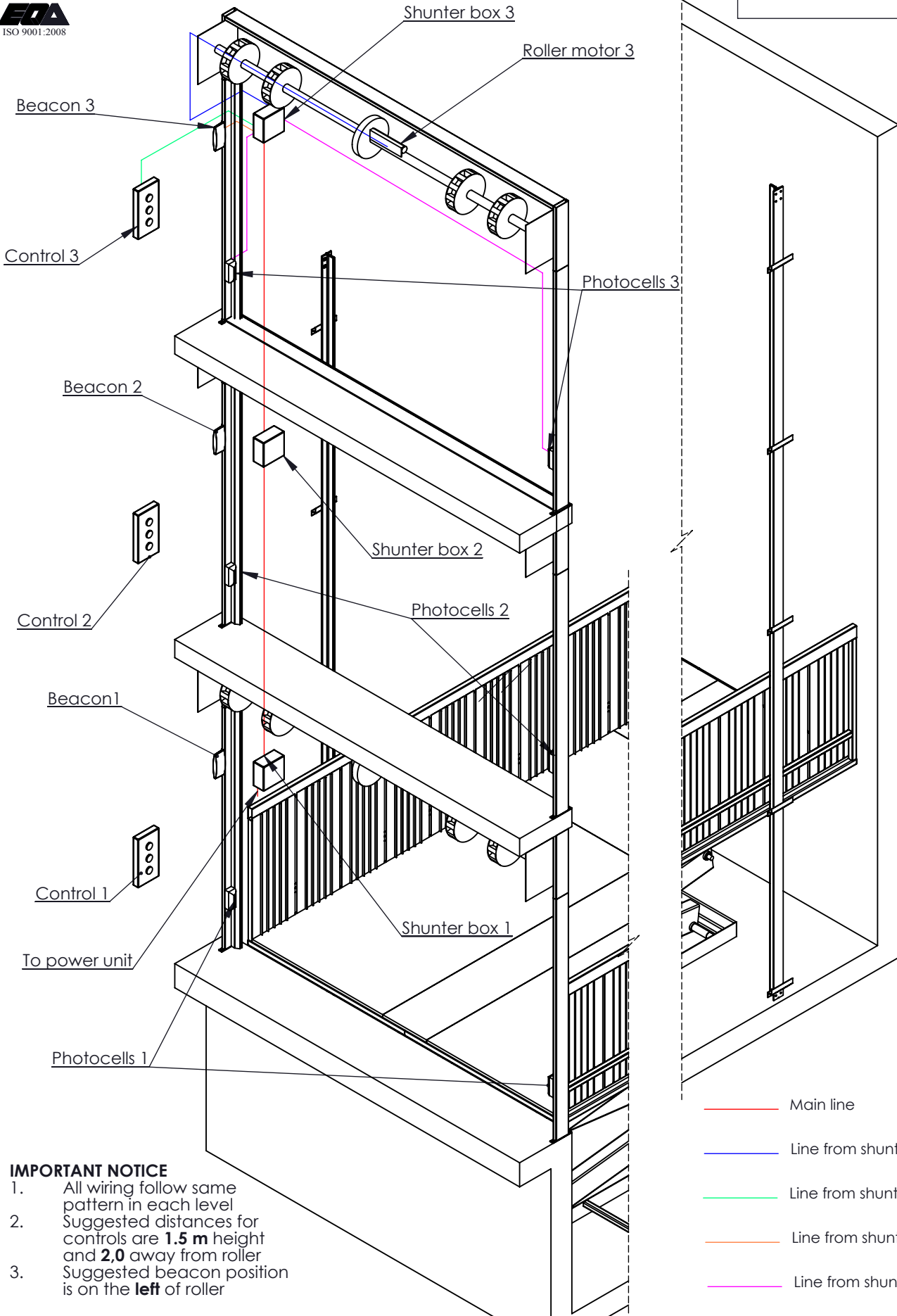
SHUNT No1

TO SHUNT No2



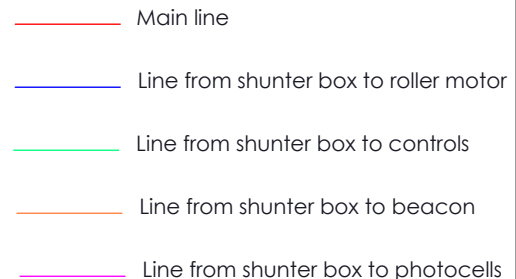
FOR ELECTRICAL TABLE





IMPORTANT NOTICE

1. All wiring follow same pattern in each level
2. Suggested distances for controls are **1.5 m** height and **2,0** away from roller
3. Suggested beacon position is on the **left** of roller

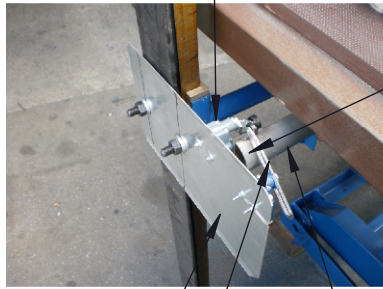




Middle terminal switch installation

Middle Terminal switch

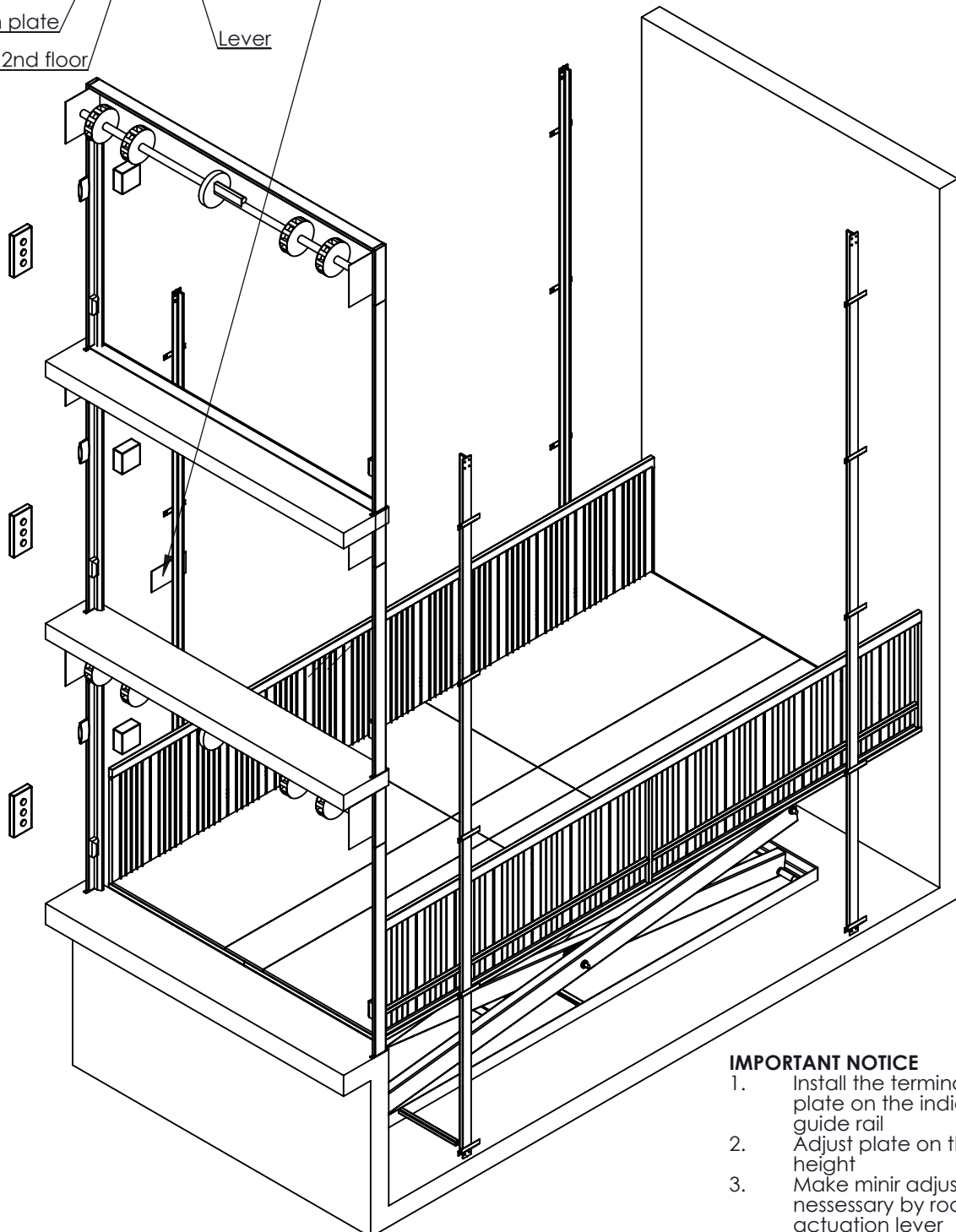
Middle floor switch



Terminal switch plate

Lever

Terminal switch 2nd floor



IMPORTANT NOTICE

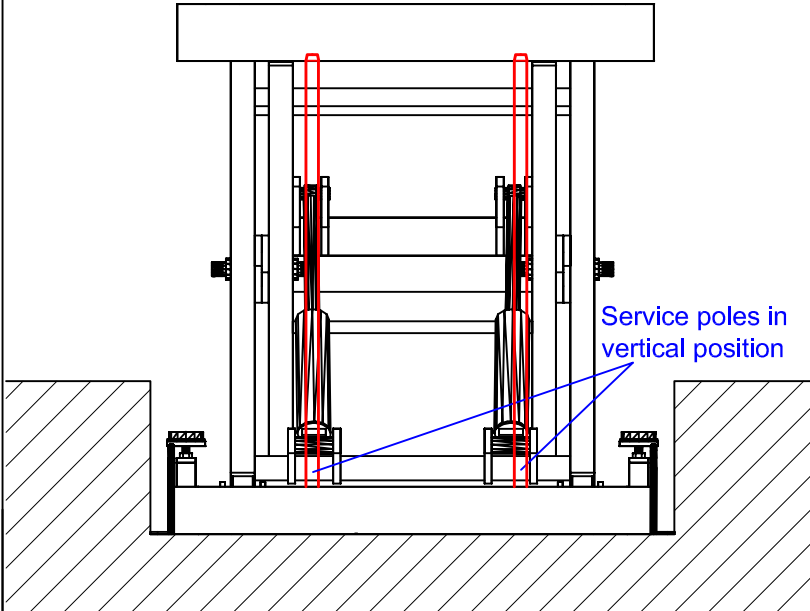
1. Install the terminal switches plate on the indicated T guide rail
2. Adjust plate on the correct height
3. Make minor adjustments if necessary by rotating the actuation lever



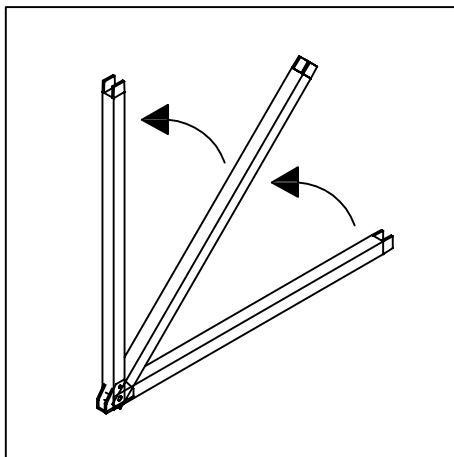
SERVICE POLE

INSTRUCTIONS:

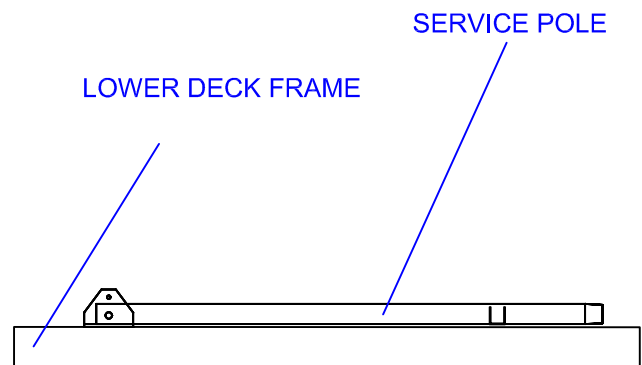
1. Lift the machine to the proper height (scheme 1).
2. Set the service pole in vertical position (scheme 2)
3. Lower the machine to the point that the lower face of the platform touches the upper face of the service pole (scheme 1.)
4. Proceed with the required maintenance routine
5. Place the service pole back to the initial position



SERVICE POLES IN MAINTENANCE ROUTINE POSITIONS
SCHEME 1



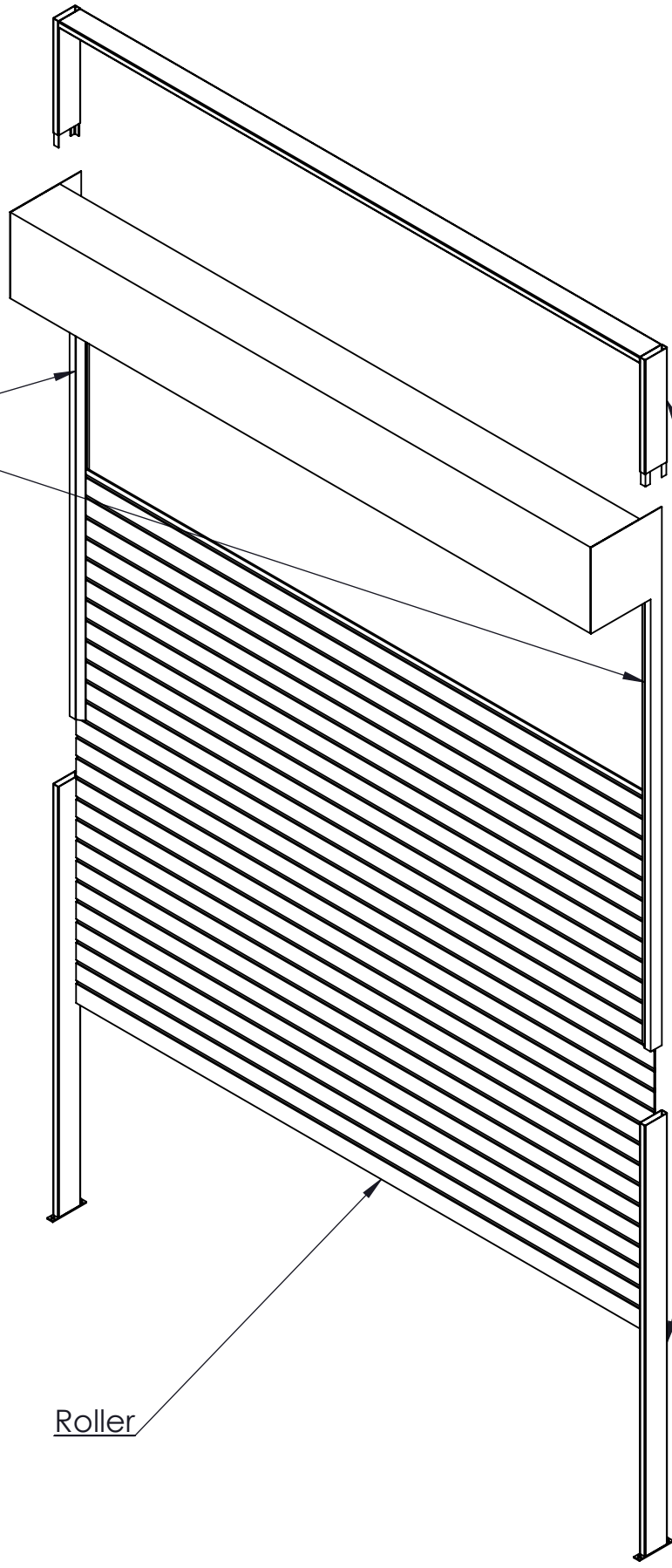
SERVICE POLE ROTATION MOVEMENT
SCHEME 2



SERVICE POLE LOCATED ON HTE LOWER DECK
SCHEME 3



Guides



Metal frame

Roller

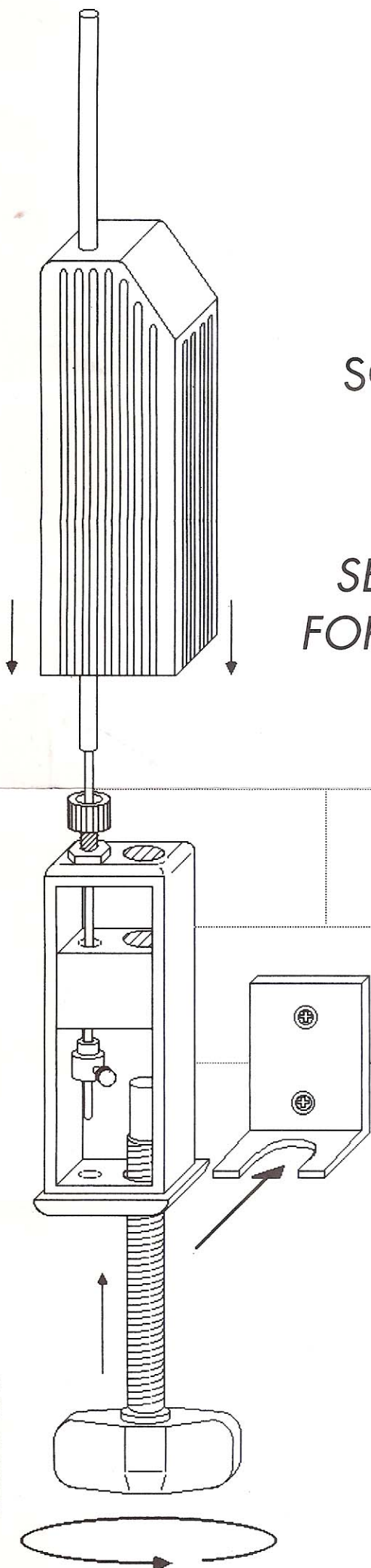


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ΒΙΟΜΗΧΑΝΙΑ ΑΝΥΨΩΤΙΚΩΝ ΜΗΧΑΝΗΜΑΤΩΝ & ΥΔΡΑΥΛΙΚΩΝ ΚΥΛΙΝΔΡΩΝ
INDUSTRIAL & COMERCIAL ENTERPRISE LIFTING & HYDRAULIC CYLINDER
ΒΙ.Π.Ε ΛΑΡΙΣΑΣ, e-mail: oscare@otenet.gr
Τηλ: 2410 541.268 - 541.4150, FAX: 2410 541.370, Τ.Θ. 1244, Τ.Κ. 411 10

SCHEMA D'INSTALLATION

SETTING UP INSTRUCTION FOR UNCLAMPING OF BRAKE FROM INSIDE



SBL-JN-ES 09/01

The unclamping is a complement of the motor, and the use of it must be exclusively related to the purpose it is designed for. The manufacturer declines all responsibilities for uncorrect installation or unproper use of the product.

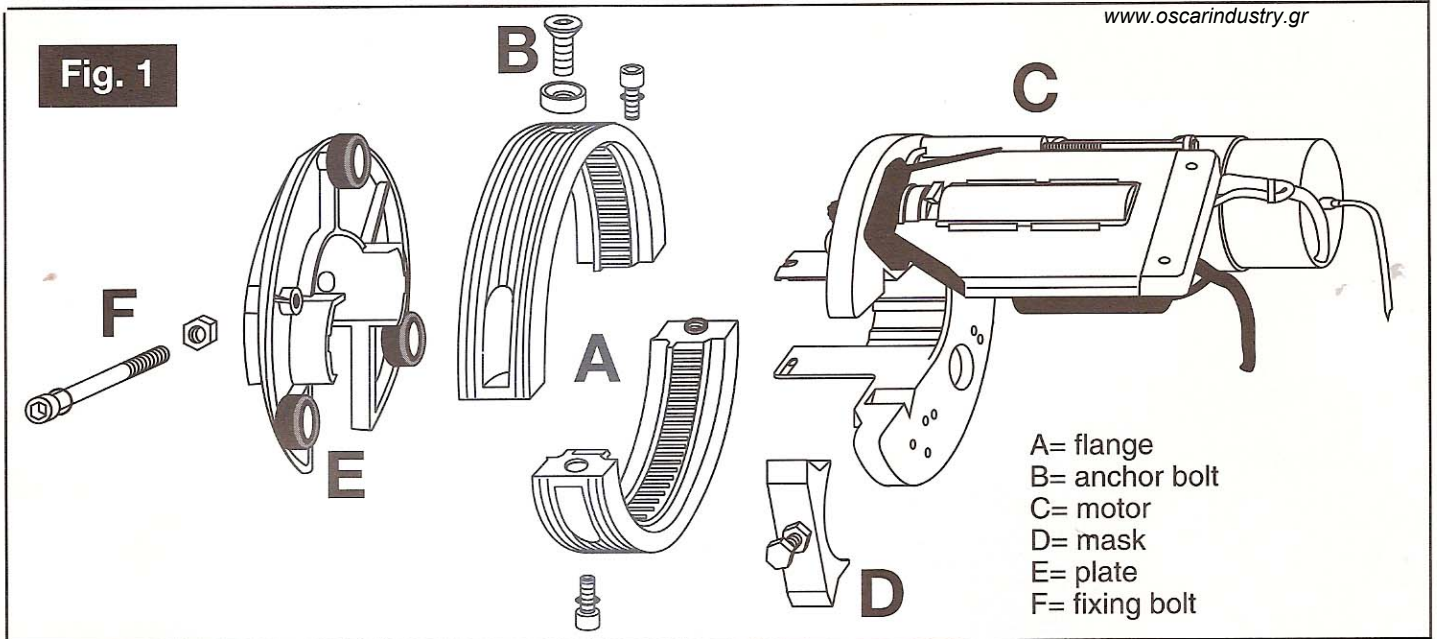


Fig. 2

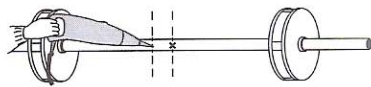


Fig. 3

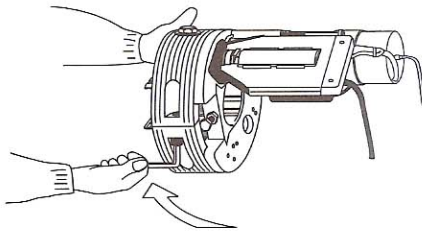


Fig. 4

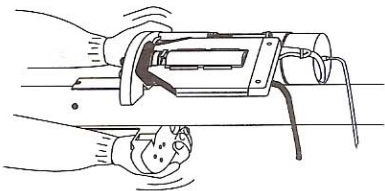


Fig. 5

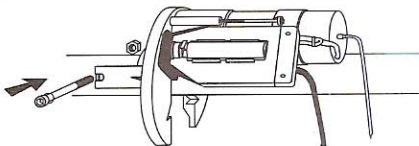


Fig. 6

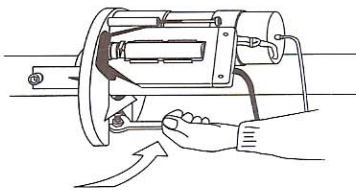


Fig. 7

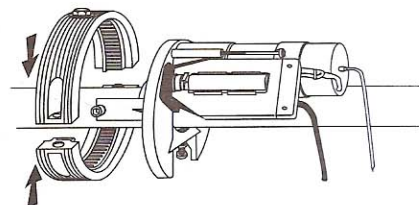
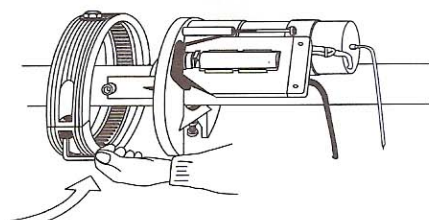


Fig. 8



INSTRUCTIONS FOR THE INSTALLATION OF THE MOTOR UNIKO 60/200

FIG. 2

Determine the centre of the axle. Drill a hole of $\text{Ø}11\text{mm}$. at 5 cm. on the left from the centre, taking care that the drill is perfectly horizontal, in order to have the same hole on the opposite side of the axle; the hole will accommodate the fixing bolt (F). If there are 3 spring boxes on the axle, this operation must be carried out between the two boxes on the right.

FIG. 3

Unscrew the flange (A), slide out the plate (E) and extract the mask (D).

FIG. 4

With a slight rotation, place the motor (C) on the axle, making the holes onto the body of the motor coincide with the holes previously made on the axle. For installations on axes of $\text{Ø}48\text{mm}$. and $\text{Ø}42\text{mm}$., please refer to fig. 1a.

FIG. 5

Insert *temporarily* the fixing bolt (F) in order to line up the motor on the axle.

FIG. 6

Insert the mask (D) and screw *moderately* the bolt in order to avoid problems during the next phases.

FIG. 7

Reassemble the flange (A) on the axle.

FIG. 8

Tight up the flange.

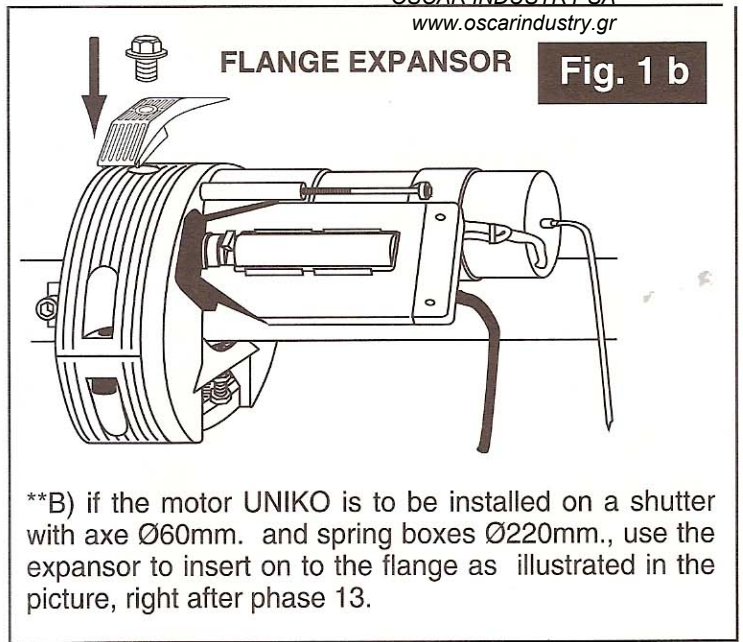
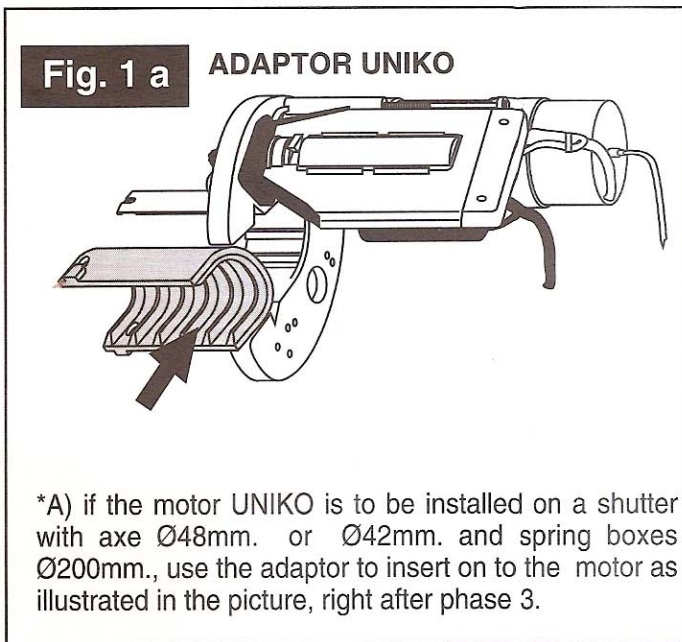


FIG. 9
Insert the flange onto the motor (C), taking care that the gears engage perfectly with the flange.

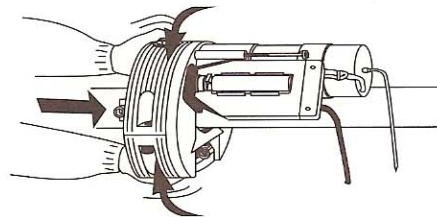


Fig. 9

FIG. 10
Extract the fixing bolt (F).

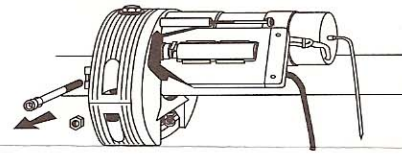


Fig. 10

FIG. 11
Insert the plate (E) and tighten *moderately* but firmly the fixing bolt (F), in order to avoid ovality in the axe. Then tighten the mask (D) through the lock nut.

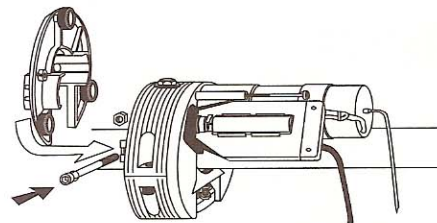


Fig. 11

FIG. 12
Drill a hole near the motor on the right hand side of the axe and slip the electric cable in until it comes out from the right end of the axe. If the motor has the electromagnetic brake, drill another hole and slip in the cable for the unclamping.

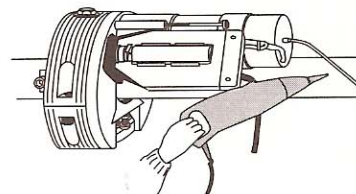


Fig. 12

FIG. 13
We advise to fix the electric cable through a band as shown in the picture, in order to avoid that the same cable is tensioned.

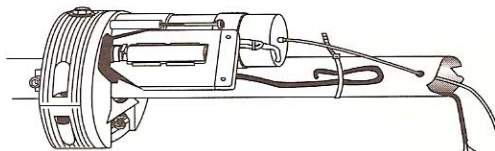


Fig. 13

FIG. 14
Unscrew the anchor bolt (B) and drill a matching hole on the first element of the shutter. We advise to use a packing between the element and the flange. In case of installation with spring boxes of Ø220mm., please refer to picture 1b.

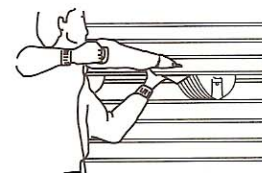


Fig. 14

FIG. 15
Tighten the anchor bolt (B). Make all the wiring as illustrated at picture 16 page 4.

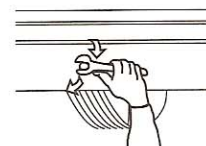


Fig. 15

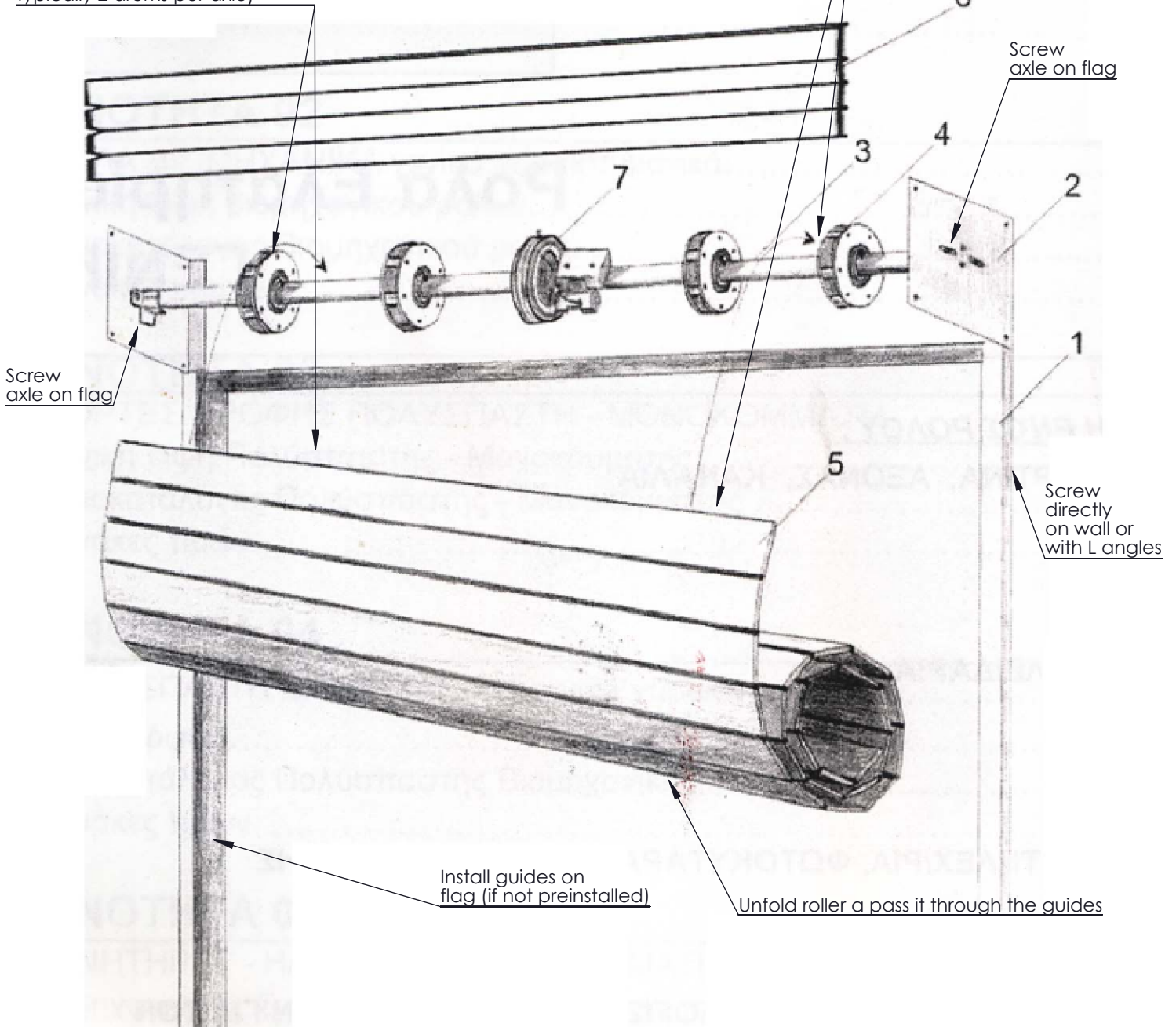
ATTENTION:

THE ELECTRICAL WIRING, CONNECTION OF CABLE AND SETTING OF LIMIT SWITCH ARE DESCRIBED AT PAGE 4.



Hook top edge of roller on drum
(drum number may vary typically 2 drums per axle)

Hook top edge of roller on drum
(drum number may vary typically 2 drums per axle)



OSCAR S.A

INDUSTRIAL AND COMMERCIAL ENTERPRISE LIFTING & HYDRAULIC CYLINDER

Industrial Area Of Larissa, e-mail: oscare@otenet.gr

tel: 0030 2410 541.268 - 541.450, FAX: 0030 2410 541370, P.O. BOX 1244, Area Zip Code 41110

DESIGNED	TECHNICAL DATA				TITLE: Roller Shutter Assembly
DATE	LIFTING CAPACITY	2500 kg	MOTOR		
SIGNATURE	TRAVEL	2900 mm	5.5 Hp / 380V		
CHECKED	SHAFT DIMENSIONS	3620 x 5430 mm	SPEED		MACHINE TYPE: OS/A/1Ψ/3000
TOLERANCES	EN	PLATFORM DIMENSIONS	3000 x 5000 mm	0.06-0.10 m/sec	
SCALE		SHAFT DEPTH	1500 mm	STOPS:2	

Εργοστάσιο - Έδρα :

ΒΙ.ΠΕ Λάρισας

Τηλ.: 2410 541.154, 2410 541.450, 2410 541.268 - Fax : 2410 541.370 - Τ.Κ 411 10 - Τ.Θ 1244

E-mail: oscare@otenet.gr - site: www.oscarindustry.gr



Roller Shutter

Motor

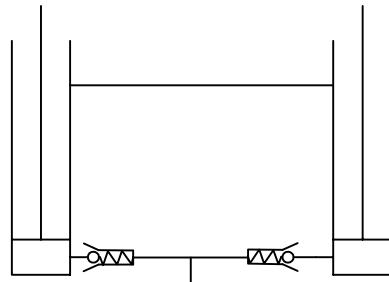
Opening Adjustment



Roller Shutter

Motor

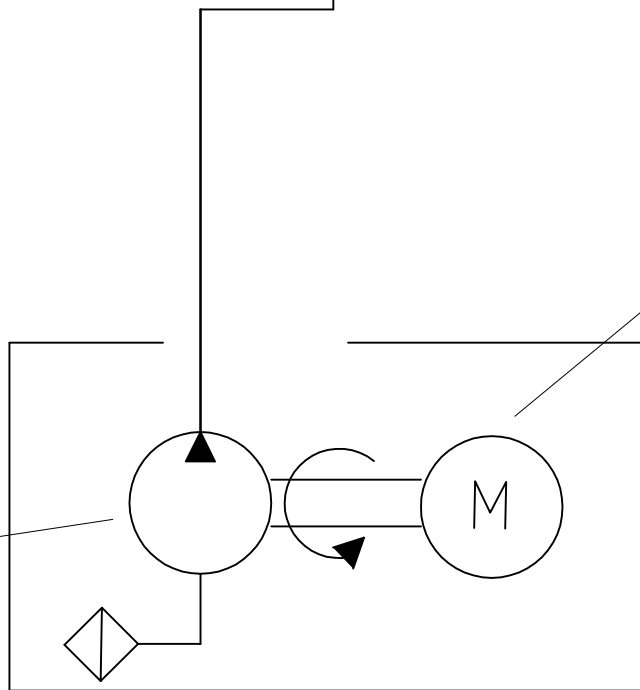
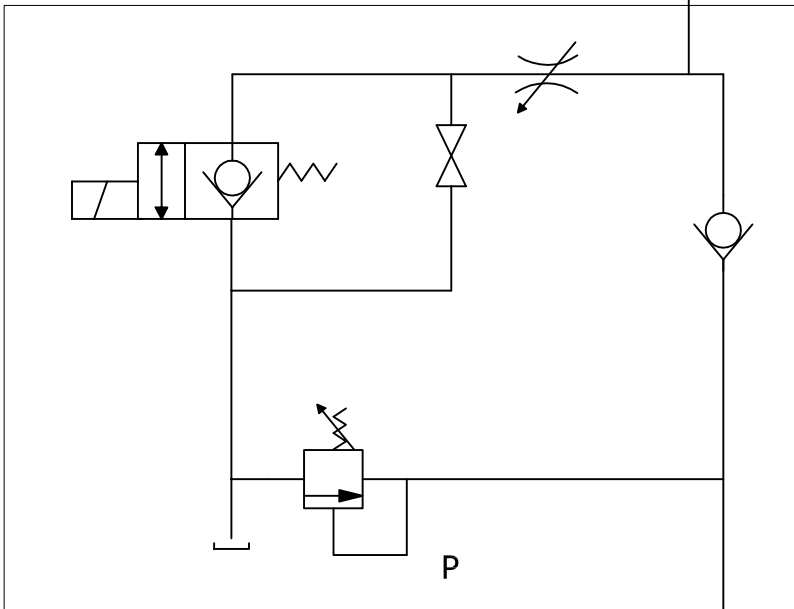
Closing Adjustment



HYDRAULIC CYLINDERS



MANUAL BALL VALVE



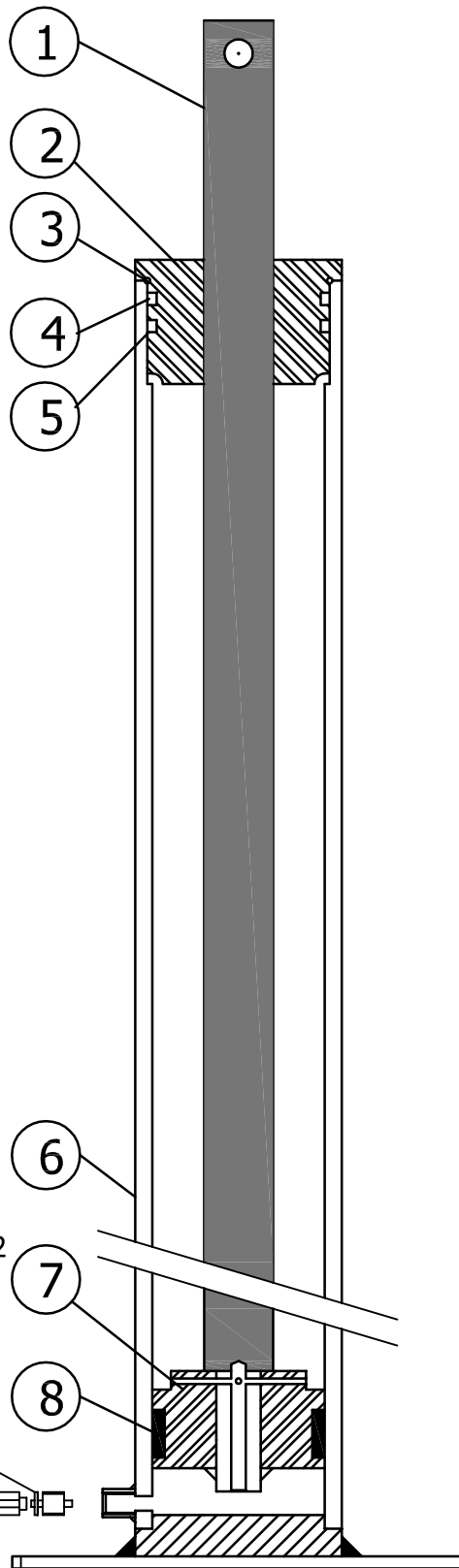
PRESSURE PUMP

MOTOR



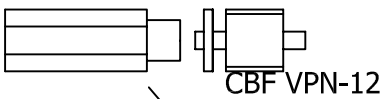
DIRECT ACTING HYDRAULIC CYLINDER COMPONENTS

EDA
ISO 9001:2008



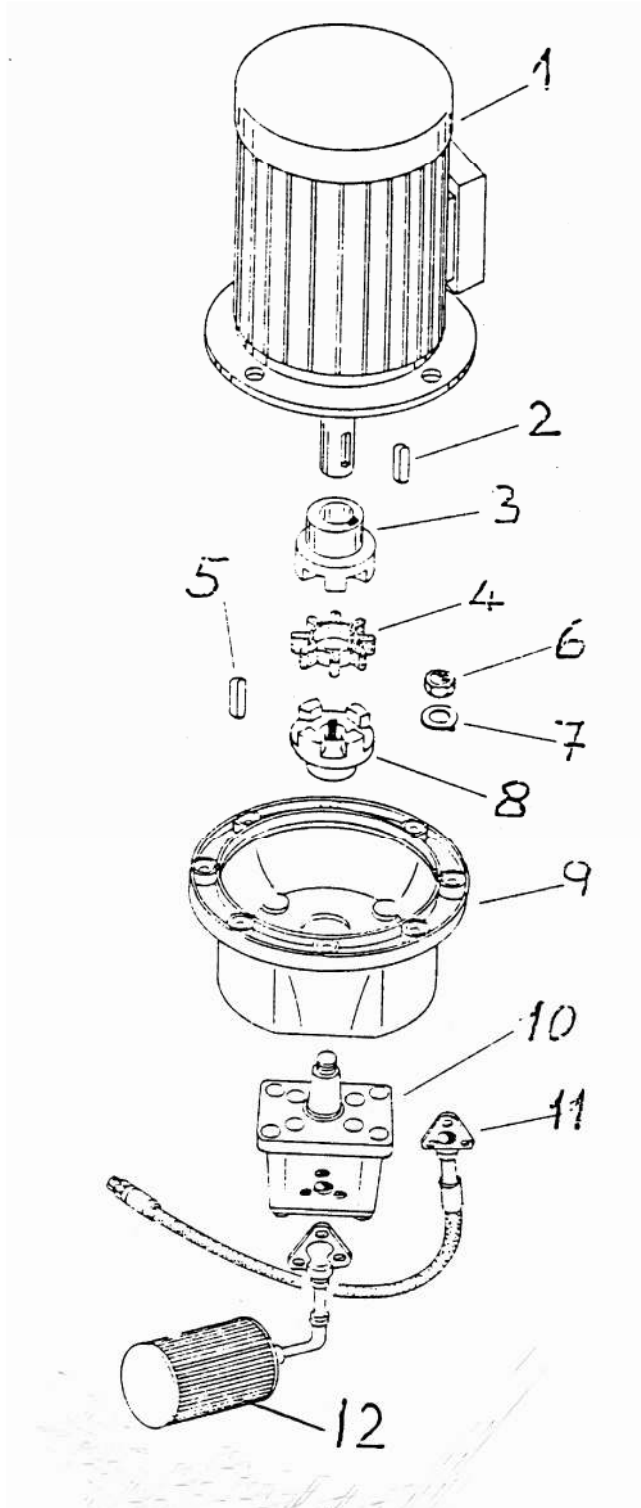
RUPTURE VALVE
(see certificates annex for details)

CBF VPN-12 MF



A/A	description	pcs.
1	STEEL TUBE	1
2	HEAD	1
3	O RING	1
4	SCRAPPER	1
5	SEAL	1
6	CYLINDER	1
7	PISTON	1
8	GUIDE RING	1
9	RUPTURE VALVE	1

HYDRAULIC UNIT COMPONENTS

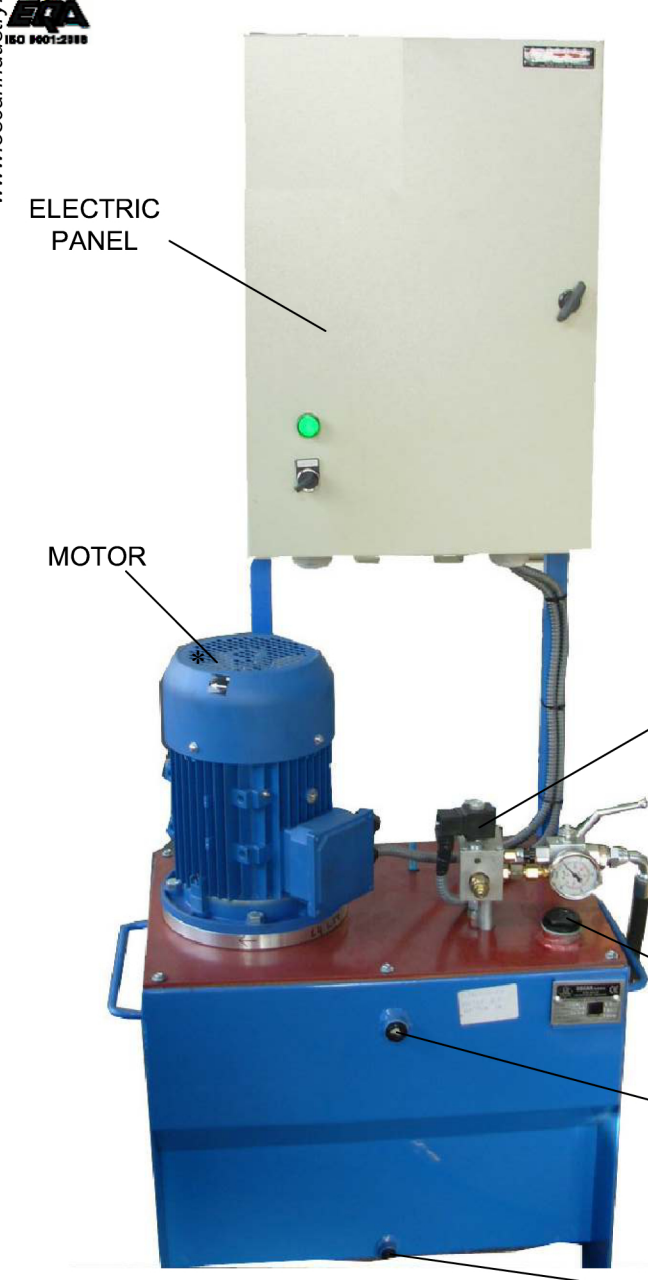


A/A	ΠΕΡΙΓΡΑΦΗ	ΤΕΜ.	A/A	ΠΕΡΙΓΡΑΦΗ	ΤΕΜ.
1	MOTOR	1	7	SAFETY WASHER	1
2	WEDGE	1	8	PUMP TRANSMITION	1
3	MOTOR TRANSMITION	1	9	HOUSING	1
4	FLEXIBLE RING	1	10	PUMP	1
5	WEDGE	1	11	PUMP INLET WITH TUBING	1
6	NUT	1	12	FILTER	1



ELECTRO-HYDRAULIC UNIT

OSCAR INDUSTRY SA
www.oscarindustry.gr



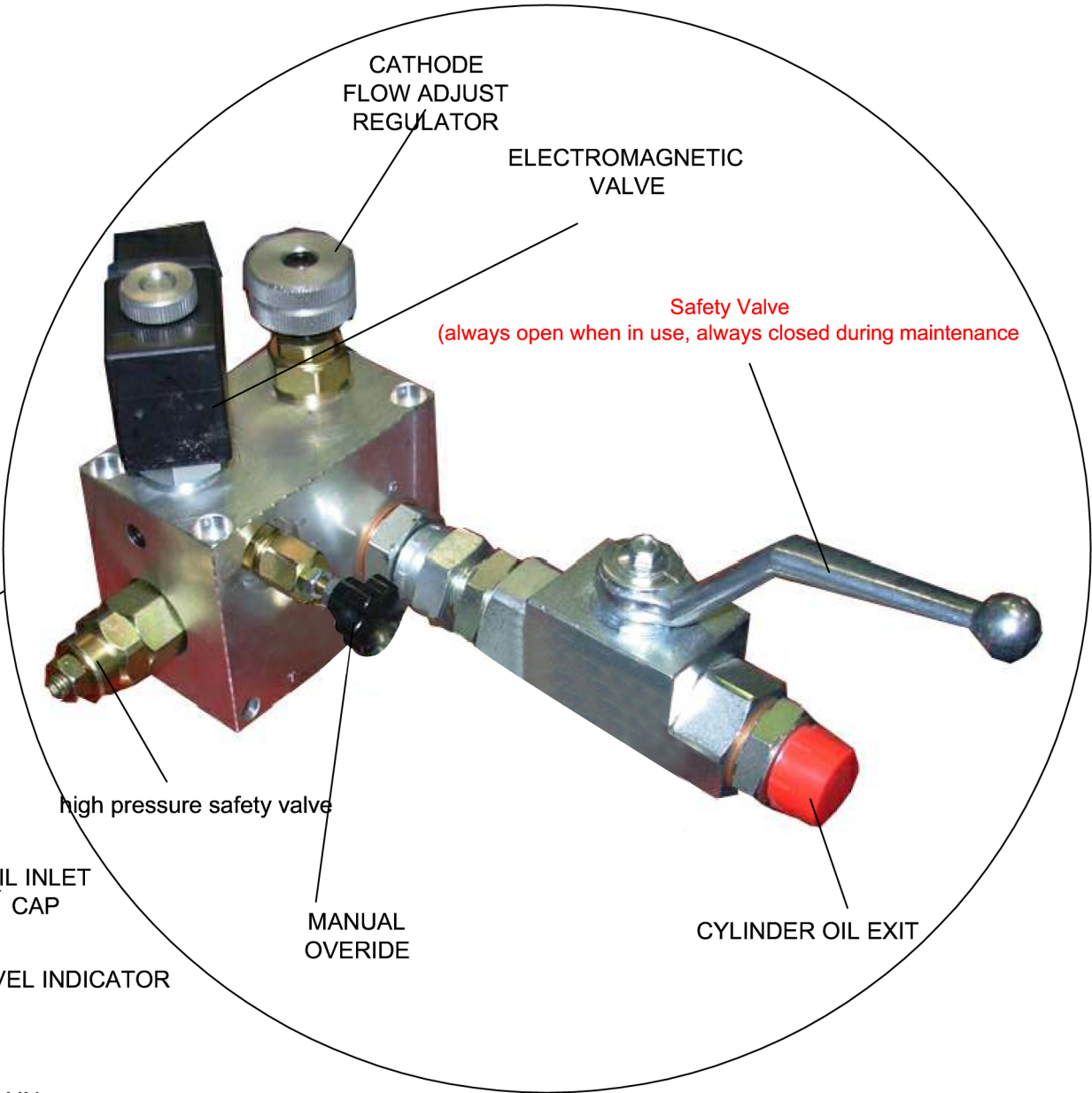
ELECTRIC PANEL

MOTOR

OIL INLET CAP

OIL LEVEL INDICATOR

OIL DRAIN CAP



CATHODE FLOW ADJUST REGULATOR

ELECTROMAGNETIC VALVE

Safety Valve
(always open when in use, always closed during maintenance)

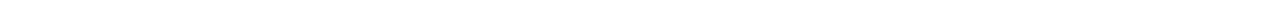
high pressure safety valve

MANUAL OVERRIDE

CYLINDER OIL EXIT



5. Conformity declarations and warranties.



GUARANTEE OF GOOD OPERATION

The present form constitutes the Guarantee of Good Operation of the products of our company. All our machines are manufactured as it is defined by the European Directives 98/37/EC and 2006/42 EC regarding the machines.

The Guarantee is valid for twenty four (24) months from the purchase date and it covers the damages that derive from:

- Bad quality of manufacture
- Bad quality of raw material

The Guarantee does not cover:

- The damage of bad use
- The damage of insufficient maintenance
- The damage of electrical nature
- The damage of fair weather & tear.

The reading of this manual will guide you to the right use of this platform.

OSCAR S.A.

MANTHOS ATHANASIOS



Production Manager

MANTHOS THOMAS



President Of D.C.



DECLARATION OF CONFORMITY



PROJECT:

CONSTRUCTION COMPANY: OSCAR S.A.
INDUSTRIAL AREA OF LARISSA -GREECE

MACHINE: HYDRAULIC VERTICAL LIFTING TABLE

TYPE: OS /A/2Ψ/3000

SERIAL NUMBER: 0386

YEAR OF CONSTRUCTION: 2014

WORKING LOAD: 3000 Kg

MOTOR: 7.5 Hp

POWER SUPPLY: 380V

The present declaration is published for this product which is constructed according the requirements of the European Directive 98/37/EC and 2006/42 EC as it is defined by the directives of the Council of the European Community regarding the machines.

LARISSA 18/03/2014
OSCAR S.A.

**ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
DECLARATION OF CONFORMITY
DICHIARAZIONE DI CONFORMITA**

1. MANUFACTURER'S SEAL

We hereby declare that the product listed below:
Hydraulic Cylinder

3.Type: OS/A/2Ψ/3000

Serial Number: 0386

Comforms with the following standards

**4.
EN 292 – 1 , EN 292 – 2 , ISO 7000 & only for hydraulic elevators cylinders EN 81**

As defined by the Eu Council

**5.
98/37/EC & 2006/42 EC**

6. Desinger



7. Place & Date

(sign)





Certification of Inspection Of Hydraulic Cylinder

Customer :	Date Of Inspection : 18/03/2014
Address of Installation:	
Order No : 6000794-133220	
Number of Items : 2	

Type	OS/A/2Ψ/3000	Maximum Pressure allowed (Bar)	110
Serial Number	0386	Testing Pressure (Bar)	140
Year of manufacture	2014		

Technical Data : Marterial : ST 52

Simple Cylinder pcs:2	X		
	Diameter Ø	Thickness	Length
Rod :	Ø80	-	
Cylinder :	Ø140x160	-	

Simple Cylinder pcs:2	X		
	Diameter Ø	Thickness	Length
Piston No 1	mm	mm	mm
Piston No 2	mm	mm	mm
Cylinder No1	mm	mm	mm
Cylinder No2	mm	mm	mm

Telescopic Cylinder			
	Diameter Ø	Thickness	Length
Piston No 1	mm	mm	mm
Piston No 2	mm	mm	mm
Piston No 3	mm	mm	mm
Piston No 4	mm	mm	mm
Cylinder :	mm	mm	mm

We hereby declare that the product listed above has been tested in pressure over 100 (bar).

Signature



CERTIFICATION OF INSPECTION HYDRAULIC PRESSURE UNIT



Customer:	Date:18/03/2014	
Address:	Order No: 6000794-133220	
Tel.:	Fax:	Num. Of items: 1

Unit Type: *Three Phase Electro-hydraulic*

Serial Number: 086

Year of manufacture: 2014

Pump: Contarini Gr2 XV 2P/17, displacement 16.8 cc/rev

MOTOR: NOVA 7.5Hp MS 112L-4, No 1360729002

Valve Block: CBF, EV000238, Serial Num: 250 12

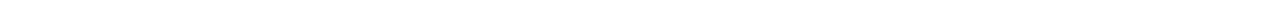
Hoses: Dunlop Hiflex 2SN 222 EN 853 12 WP, ISO 1436, **SAE 100 R2 A/T 1/2"**

***The hydraulic pressure unit has been adjusted and tested regarding
the hydraulic and mechanical components in accordance with the EN 81.2***

Signature



6. Component certificates





CERTIFICATO DEL SISTEMA DI GESTIONE PER LA QUALITÀ QUALITY MANAGEMENT SYSTEM CERTIFICATE

Si dichiara che il sistema di gestione per la Qualità dell'Organizzazione:
We certify that the Quality Management System of the Organization:

Reg. No: 533 – A

CONTARINI LEOPOLDO S.r.l.

Indirizzo/Address:

Via A. Volta, 34
48022 Lugo RA Italia

- Via Fiumazzo, 46 48022 Lugo (RA) Italia

È conforme alla norma/Is in compliance with the standard:

UNI EN ISO 9001:2008
ISO 9001:2008

Per i seguenti prodotti-servizi/For the following products-services:

Progettazione e produzione di cilindri oleodinamici a catalogo e su specifica del cliente
Commercializzazione di componenti oleodinamici

Design and production of hydraulic cylinders according to our catalogue and custom made
Dealing in hydraulic components

EA: 18

Il mantenimento della certificazione è soggetto a sorveglianza annuale e subordinato al rispetto dei requisiti essenziali CERMET.
Maintenance of the certification is subject to annual survey and dependent upon the observance of CERMET basic requirements.

Rilascio certificato/Certificate issuance: 1999-12-21

Prossimo rinnovo/Following renewal: 2013-04-30

Direttore Commerciale e Operativo
Sales and Operations Manager
Giampiero Belcredi

Direttore Generale
General Manager
Rodolfo Trippodo



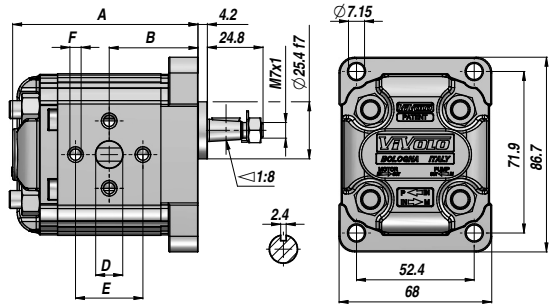
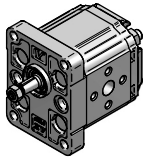
SGQ N° 007A
SGA N° 010D
PRD N° 069B
SSI N° 006G
FSM N° 004E
SCR N° 013F

Membro degli accordi di mutuo riconoscimento EA e IAF.
Signatory of EA and IAF Mutual Recognition Agreements



POMPE AD INGRANAGGI E FLANGETTE
GEAR PUMPS AND CONNECTORS - ZAHNRADPUMPEN UND WINKELSTUTZEN

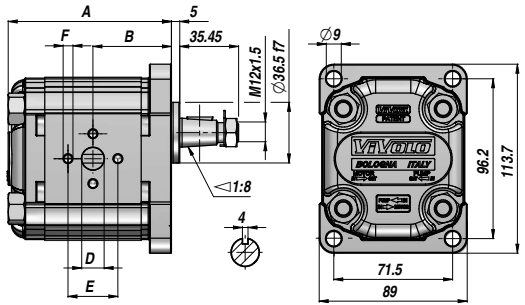
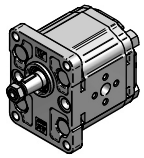
XV1P POMPA AD INGRANAGGI GEAR PUMP ZAHNRADPUMPE **GR. 1** STANDARD EUROPEA BASE Ø25,4 STANDARD EUROPEAN Ø25,4 FLANGE EUROPÄISCHER STANDARD - FLANSCH Ø25,4 **ALBERO CONICO 1:8** 1:8 TAPER SHAFT KEGELWELLE 1:8



Codice Code Bestell-Nr.	Tipo Type Typ	cm³/giro cm³/rev cm³/U	P MAX bar		giri/min rpm - U/Min.		A	B	IN D x E x F	OUT D x E x F	kg
			P1	P3	MAX	MIN					
1P160*FIIA	XV 1P/ 0,9	0,91	240	280	6000	700	78,1	37,3	Ø12x30xM6	Ø12x30xM6	0,95
1P170*FIIA	XV 1P/ 1,2	1,17	250	290	6000	700	79,0	37,8	Ø12x30xM6	Ø12x30xM6	0,97
1P180*FIIA	XV 1P/ 1,7	1,56	250	290	6000	700	80,5	38,5	Ø12x30xM6	Ø12x30xM6	1,01
1P200*FIIA	XV 1P/ 2,2	2,08	250	290	6000	700	82,5	39,5	Ø12x30xM6	Ø12x30xM6	1,03
1P210*FIIA	XV 1P/ 2,6	2,60	250	300	6000	700	84,5	40,5	Ø12x30xM6	Ø12x30xM6	1,06
1P230*FIIA	XV 1P/ 3,2	3,12	250	300	6000	700	86,5	41,5	Ø12x30xM6	Ø12x30xM6	1,09
1P250*FIIA	XV 1P/ 3,8	3,64	250	300	6000	700	88,5	42,5	Ø12x30xM6	Ø12x30xM6	1,12
1P270*FIIA	XV 1P/ 4,3	4,16	250	300	6000	700	90,5	43,5	Ø12x30xM6	Ø12x30xM6	1,17
1P290*FIIA	XV 1P/ 4,9	4,94	250	300	6000	700	93,5	45,0	Ø12x30xM6	Ø12x30xM6	1,20
1P310*FIIA	XV 1P/ 5,9	5,85	250	300	5000	700	97,0	46,8	Ø12x30xM6	Ø12x30xM6	1,26
1P320*FIIA	XV 1P/ 6,5	6,50	250	300	5000	700	98,5	48,0	Ø12x30xM6	Ø12x30xM6	1,30
1P340*FIIA	XV 1P/ 7,8	7,54	220	260	5000	700	103,5	50,0	Ø12x30xM6	Ø12x30xM6	1,36
1P360*FIIA	XV 1P/ 9,8	9,88	190	230	4000	700	112,5	54,5	Ø12x30xM6	Ø12x30xM6	1,50

* 1 = ROTAZIONE SINISTRA - ANTICLOCKWISE - LINKSDREHUNG P1 = PRESSIONE MAX. DI ESERCIZIO - MAX. WORKING PRESSURE - MAX BETRIEBSDRUCK
* 2 = ROTAZIONE DESTRA - CLOCKWISE - RECHTS-DREHUNG P3 = PRESSIONE MAX. DI PICCO - MAX. PEAK PRESSURE - HÖCHSTDRUCK

XV2P POMPA AD INGRANAGGI GEAR PUMP ZAHNRADPUMPE **GR. 2** STANDARD EUROPEA BASE Ø36,5 STANDARD EUROPEAN Ø36,5 FLANGE EUROPÄISCHER STANDARD - FLANSCH Ø36,5 **ALBERO CONICO 1:8** 1:8 TAPER SHAFT KEGELWELLE 1:8



Codice Code Bestell-Nr.	Tipo Type Typ	cm³/giro cm³/rev cm³/U	P MAX bar		giri/min rpm - U/Min.		A	B	IN D x E x F	OUT D x E x F	kg
			P1	P3	MAX	MIN					
2P410*E00A	XV 2P/ 4	4,20	260	300	3500	700	87,2	41,7	Ø13,5x30xM6	Ø13,5x30xM6	2,20
2P430*E00A	XV 2P/ 6	6,00	260	300	3500	700	90,2	43,2	Ø13,5x30xM6	Ø13,5x30xM6	2,30
2P450*E00A	XV 2P/ 9	8,40	260	300	3500	700	94,2	45,2	Ø13,5x30xM6	Ø13,5x30xM6	2,40
2P470*E00A	XV 2P/ 11	10,80	260	300	3500	700	98,2	47,2	Ø13,5x30xM6	Ø13,5x30xM6	2,50
2P490*E00A	XV 2P/ 14	14,40	250	290	3500	700	104,2	50,2	Ø20,0x40xM8	Ø13,5x30xM6	2,70
2P510*E00A	XV 2P/ 17	16,80	230	270	3500	700	108,2	52,2	Ø20,0x40xM8	Ø13,5x30xM6	2,80
2P530*E00A	XV 2P/ 19	19,20	210	250	3000	700	112,2	54,2	Ø20,0x40xM8	Ø13,5x30xM6	2,90
2P550*E00A	XV 2P/ 22	22,80	200	240	3000	700	118,2	57,2	Ø20,0x40xM8	Ø13,5x30xM6	3,05
2P570*EQPA	XV 2P/ 26	26,20	170	210	3000	700	122,2	59,2	Ø23,5x40xM8	Ø20,0x40xM8	3,15
2P590*EQPA	XV 2P/ 30	30,00	160	200	2500	700	130,2	63,2	Ø23,5x40xM8	Ø20,0x40xM8	3,40
2P610*EQPA	XV 2P/ 34	34,20	150	190	2500	700	137,2	66,7	Ø23,5x40xM8	Ø20,0x40xM8	3,60
2P630*EQPA	XV 2P/ 40	39,60	140	180	2000	700	146,2	71,2	Ø23,5x40xM8	Ø20,0x40xM8	3,80

* 1 = ROTAZIONE SINISTRA - ANTICLOCKWISE - LINKSDREHUNG P1 = PRESSIONE MAX. DI ESERCIZIO - MAX. WORKING PRESSURE - MAX BETRIEBSDRUCK
* 2 = ROTAZIONE DESTRA - CLOCKWISE - RECHTS-DREHUNG P3 = PRESSIONE MAX. DI PICCO - MAX. PEAK PRESSURE - HÖCHSTDRUCK





DET NORSKE VERITAS

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. **CERT-05201-99-AQ-VEN-SINCERT**

Si attesta che / This certifies that

Il sistema di gestione per la qualità di / the quality management system of

CBF S.R.L.

Via Caboto, 3 - 36075 Montecchio Maggiore (VI) - Italy

*È conforme ai requisiti della norma per i sistemi di gestione per la qualità
Conforms to the quality management systems standard*

UNI EN ISO 9001:2008 (ISO 9001:2008)

*Questa certificazione è valida per il seguente campo applicativo:
This certificate is valid for the following products or services:*

*(Ulteriori chiarimenti riguardanti lo scopo e l'applicabilità dei requisiti della normativa si possono ottenere consultando l'organizzazione certificata)
(Further clarifications regarding the scope and the applicability of the requirements of the standard(s) may be obtained by consulting the certified organization)*

Progettazione e produzione di componenti oleodinamici (valvole, blocchi e pompe manuali)

Design and manufacture of hydraulic components (valves, blocks and hand pumps)

*Data Prima Emissione
First Issue Date*

1999-11-16

*Luogo e data
Place and date*

Agrate Brianza, (MI) 2009-11-02

*Data di scadenza
Expiry Date*

2012-11-04

*per l'Organismo di Certificazione
for the Accredited Unit*

DET NORSKE VERITAS ITALIA S.R.L.

Settore EA : 18

Michele Gaiba
Lead Auditor

SINCERT

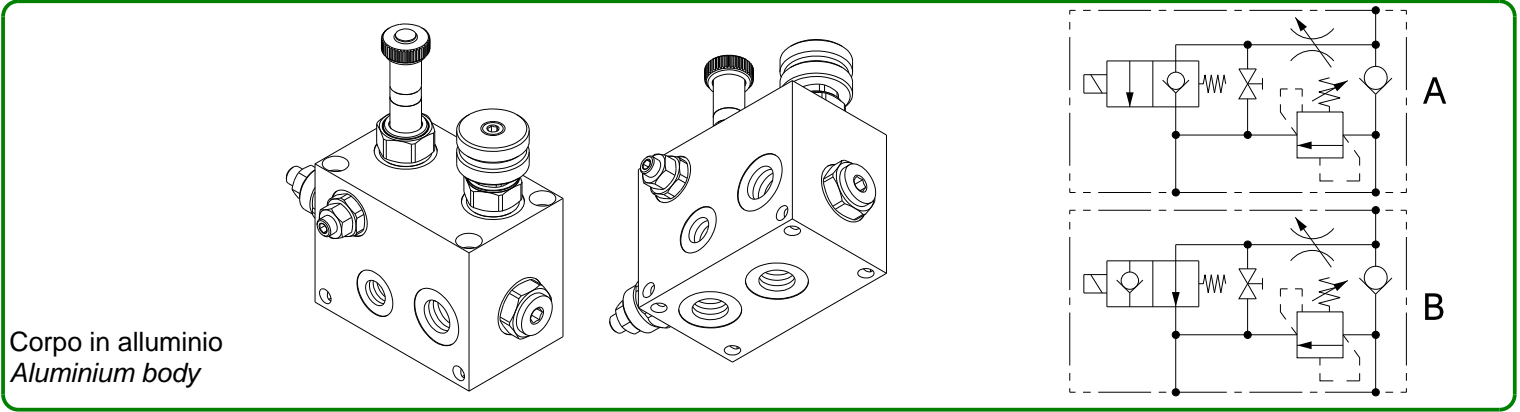
ACCREDITATO ORGANISMO DI CERTIFICAZIONE E OPERAZIONE

ISO Registrazione N. 003A
BSA Registrazione N. 003D
IIRG Registrazione N. 003B

Stipite negli Accordi di Mutua Riconoscenza RA e MF
Signature of EA and MF Mutual Recognition Agreements

Vittore Marangon
Management Representative

Gruppo integrato con valvola di non ritorno, valvola limitatrice di pressione, strozzatore e valvola elettrica
Integrated unit valve with check valve, relief valve, restrictor and solenoid operated unloading valve
mod. EV25-VLP40-VNR40-ST



Corpo in alluminio
Aluminium body

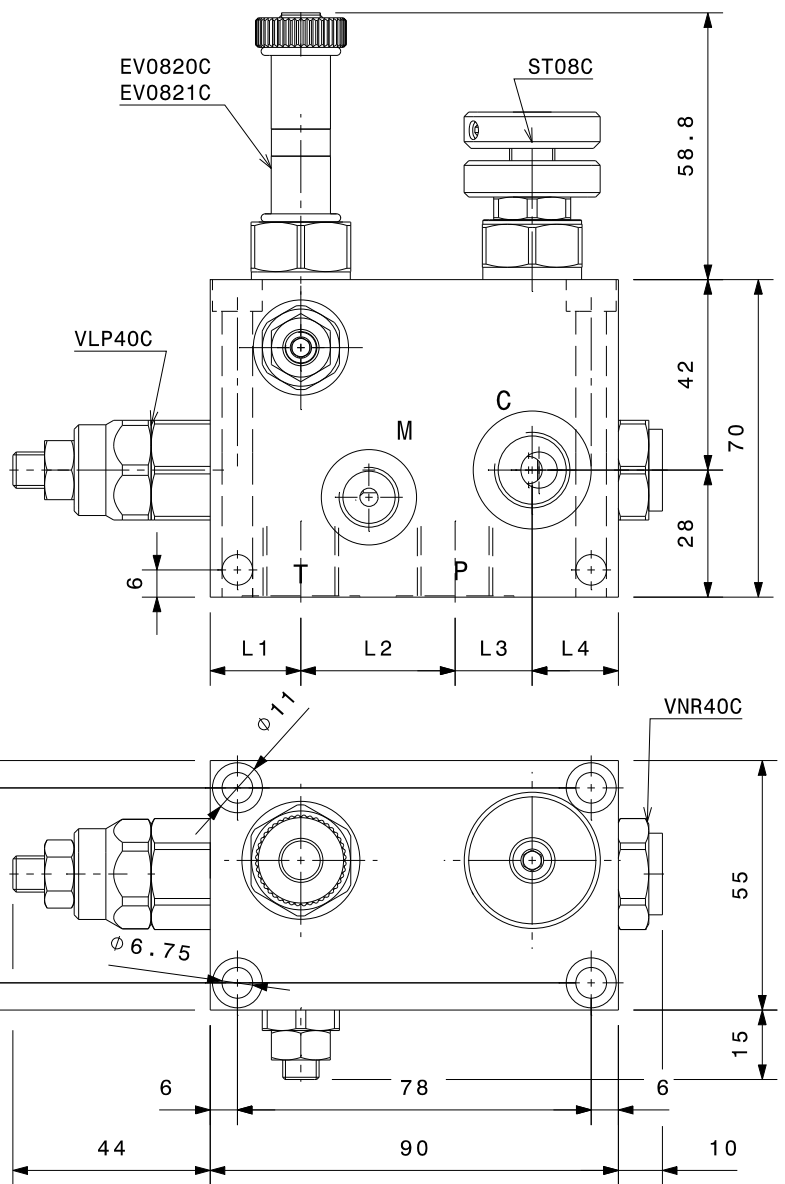
Portata massima <i>Max flow</i>	25 l/min
Pressione massima <i>Max pressure</i>	300 bar

Modello <i>Type</i>	C, P, T
EV25-VLP40-VNR40-ST-38	3/8" GAS
EV25-VLP40-VNR40-ST-12	1/2" GAS

Taratura valvola limitatrice di pressione <i>Pressure relief valve setting</i>	
Taratura standard <i>Standard setting</i> bar (Q=5 l/min)	Campo di taratura <i>Adj. Pressure range</i> bar
180	40÷250

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C <i>Performaces and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C</i>	
Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperature di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

Bobina: ordinare separatamente
Coil: sold separately



Sigla di ordinazione / Ordering code

EV25-VLP40-VNR40-ST-38 **A**

Modello
Type

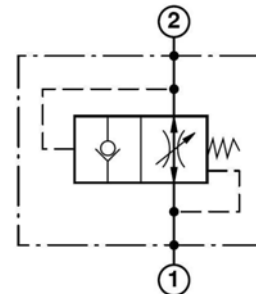
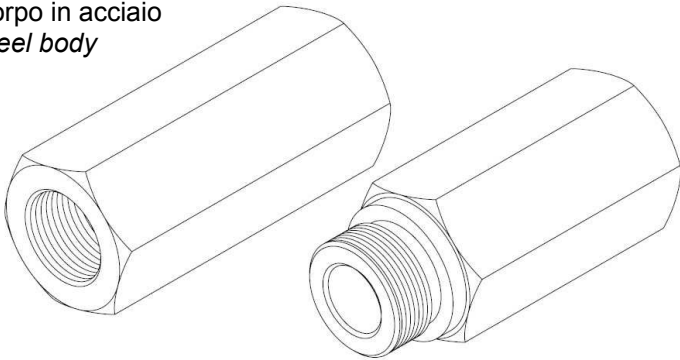
Circuito
Circuit
A, B

Dimensioni <i>Dimensions</i>	L1	L2	L3	L4
EV25-VLP40-VNR40-ST-38	20	34	17	19
EV25-VLP40-VNR40-ST-12	23	31	13	23

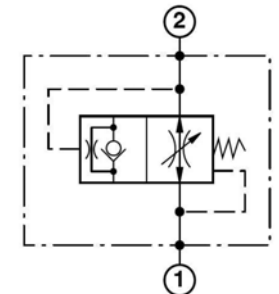
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola paracadute - colonnetta
 Hose burst valve
 mod. VPN-MF / FF

Corpo in acciaio
 Steel body



Valvola di blocco completo
 del carico
 Load full lock valve



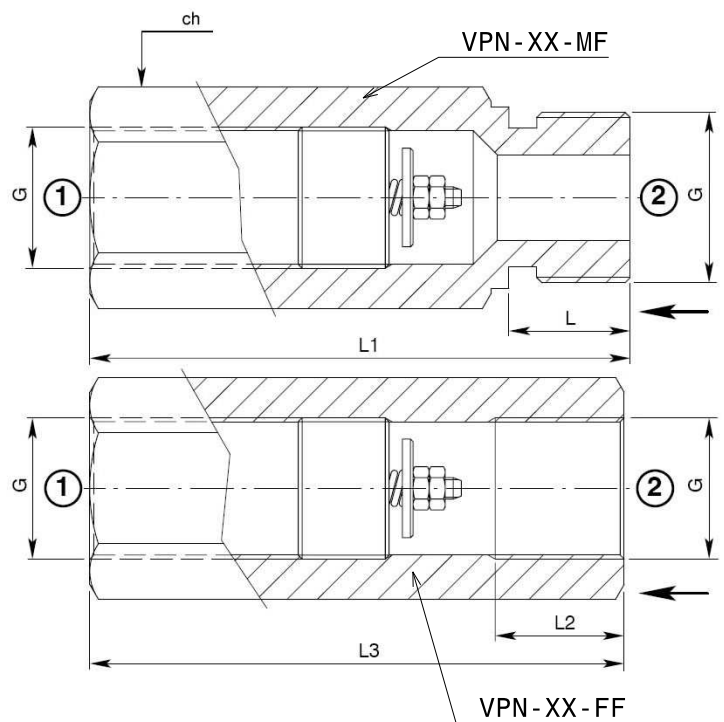
Valvola di abbassamento
 lento del carico
 Load slow motion valve

Dopo il nostro montaggio le valvole risultano regolate rispettivamente a circa 0.5mm (per G=1/4" gas e G=3/8" gas) e 0.7mm (per G=1/2" gas e G=3/4" gas).

After our assembly procedure the valves are respectively set at about 0.5mm (for G=1/4" gas and G=3/8" gas) and 0.7mm (for G=1/2" gas and G=3/4" gas).

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
 Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ

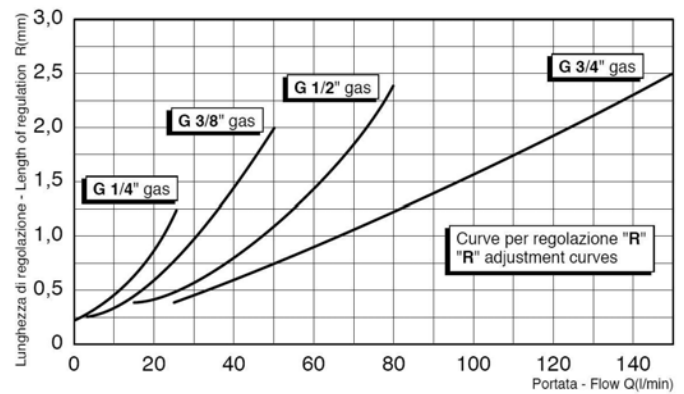


Modello Type	G	L	L1	L2	L3	Ch	Portata max Max flow l/min	Pressione massima Max pressure bar
VPN-14-MF / VPN-14-FF	1/4"GAS	10	50	13	48	19	25	350
VPN-38-MF / VPN-38-FF	3/8"GAS	12	55	13	52	22	50	350
VPN-12-MF / VPN-12-FF	1/2"GAS	14	70	14	60	27	80	350
VPN-34-MF / VPN-34-FF	3/4"GAS	16	75	17	72	32	150	350

Sigla di ordinazione / Ordering code

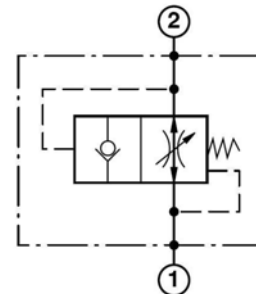
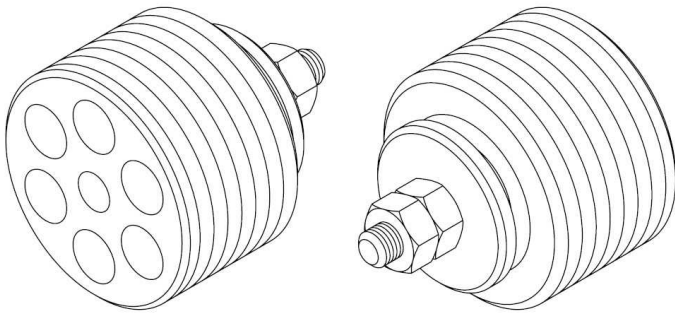
VPN-14-FF

Modello
 Type

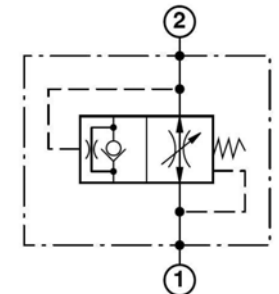


I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
 The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola paracadute
 Screw-in cartridge hose burst valve
 mod. VPN



Valvola di blocco completo del carico
 Load full lock valve



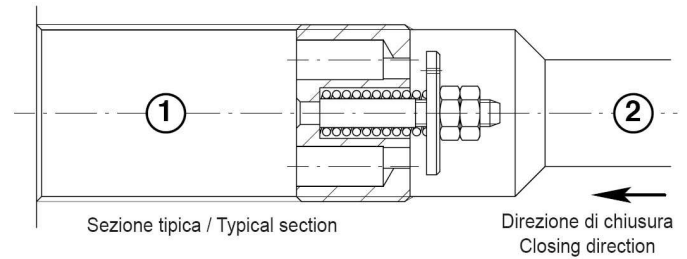
Valvola di abbassamento lento del carico
 Load slow motion valve

Dopo il nostro montaggio le valvole risultano regolate rispettivamente a circa 0.5mm (per G=1/4" gas e G=3/8" gas) e 0.7mm (per G=1/2" gas e G=3/4" gas).

After our assembly procedure the valves are respectively set at about 0.5mm (for G=1/4" gas and G=3/8" gas) and 0.7mm (for G=1/2" gas and G=3/4" gas).

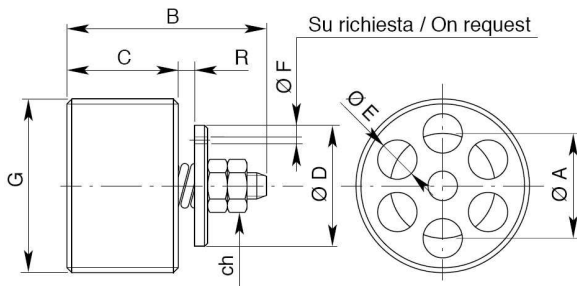
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
 Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ

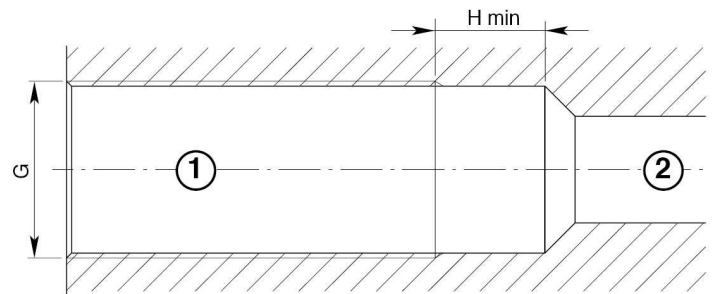


Sezione tipica / Typical section

Direzione di chiusura
 Closing direction



Su richiesta / On request

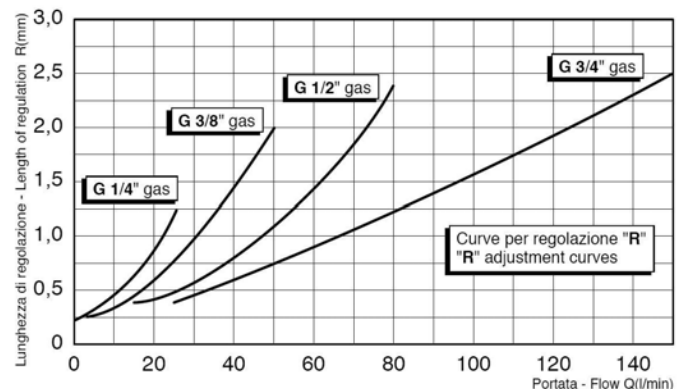


Modello Type	G	A	B	C	D	E	H	ch	Coppia di serraggio Torque Nm	Portata max Max flow l/min	Pressione massima Max pressure bar
VPN-14	1/4"GAS	8.5	17.5	8	9.5	2.4	11	5.5	2	25	350
VPN-38	3/8"GAS	10.5	23	10.5	12.5	3.5	11	5.5	3	50	350
VPN-12	1/2"GAS	13	25	12	15	4.5	15	7	4	80	350
VPN-34	3/4"GAS	16	30.5	17	18	6	16	7	10	150	350

Sigla di ordinazione / Ordering code

VPN-14

Modello
Type



I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
 The specifications are not binding, CBF reserves the right to introduce modifications without notice.



Dati tecnici motori asincroni **TRIFASE** / Technical data **THREE PHASE** asynchronous motors

4 POLI / POLES Volt 400/50-60 Hz (1500 - 1800 rpm)

Grandezza Frame size IEC	Potenza Nominale Nominal Power		Hz	n rpm	Mn Torque Nm	In (400V) A	Cos φ	Eff η %	Ms Mn	Is In	Jo Nm²	Massa B3 Weight Kg
	kW	Hp										
100M	2,2	3	50	1410	14,90	5,30	0,78	78	2,2	4,4	0,0424	18,5
			60	1700	12,40	4,80	0,83	79	2,2	4,0		
100M	3	4	50	1400	20,00	7,00	0,78	77	2,6	4,8	0,0536	20,5
			60	1690	16,70	6,60	0,83	78	2,6	4,3		
100M*	4	5,5	50	1400	27,50	9,30	0,80	79	2,5	4,6	0,0610	27,5
			60	1700	22,80	8,40	0,84	82,6	2,5	4,1		
112M	4	5,5	50	1430	27,2	9,0	0,80	83	3,1	6,8	0,104	29,0
			60	1730	22,4	8,4	0,84	84	3,1	6,2		
112M*	5,5	7,5	50	1410	37,3	11,6	0,82	84	2,7	5,5	0,120	32,0
			60	1710	31,0	11,0	0,85	85	2,7	5,0		
132S	5,5	7,5	50	1440	36,6	12,0	0,79	84	2,4	5,1	0,225	41,0
			60	1720	30,7	11,3	0,84	84	2,4	4,6		
132M	7,5	10	50	1430	50,1	16,0	0,81	83	2,4	4,8	0,266	49,0
			60	1720	41,0	15,2	0,84	83,6	2,4	4,4		
132M*	9,2	12,5	50	1450	60,6	19,4	0,80	85,6	3,0	6,6	0,335	60,0
			60	1740	50,5	17,7	0,84	89,3	3,0	6,0		
132M*	11	15	50	1440	73,0	23,0	0,79	87,1	3,1	6,4	0,363	64,0
			60	1750	61,0	22,0	0,84	88	3,1	5,8		
160M	11	15	50	1450	72,7	21,3	0,85	88	2,4	5,8	0,544	78,0
			60	1740	60,6	20,8	0,87	88	2,4	5,3		
160L	15	20	50	1450	96,9	30,8	0,80	88,2	2,4	4,6	0,686	91,5
			60	1750	80,3	30,0	0,81	87,5	2,4	6,0		
160L*	18,5	25	50	1455	120,8	35,1	0,85	89	2,8	6,4	0,824	104,0
			60	1750	100,4	34,3	0,87	89	2,8	5,8		
160L*	22	30	50	1460	144,4	41,7	0,85	90	2,8	6,5	0,947	115,0
			60	1750	120,5	40,7	0,87	90	2,8	5,9		
180M	18,5	25	50	1455	120,8	34,3	0,86	90	2,5	6,2	1,147	119,0
			60	1750	100,4	33,5	0,88	90	2,5	5,6		
180L	22	30	50	1460	144,4	40,7	0,86	91	2,7	6,5	1,338	132,0
			60	1750	120,5	39,8	0,88	91	2,7	5,9		
180L*	26	35	50	1460	168,5	47,5	0,86	91	2,8	6,6	1,551	146,0
			60	1750	140,6	46,4	0,88	91	2,8	6,0		
180L*	30	40	50	1460	192,25	54,3	0,86	91	2,8	6,6	1,760	159,0
			60	1750	160,60	53,1	0,88	91	2,8	6,0		
200M	26	35	50	1460	168,5	47,5	0,86	91	2,8	6,6	1,551	146,0
			60	1750	140,6	46,4	0,88	91	2,8	6,0		
200M	30	40	50	1460	192,25	54,3	0,86	91	2,8	6,6	1,760	159,0
			60	1750	160,60	53,1	0,88	91	2,8	6,0		

*POTENZE NON PREVISTE PER LA SERIE UNIFICATA.
*POWERS NOT FORESEEN FOR THE UNIFIED SERIES.

CI RISERVIAMO LA MODIFICA DEI DATI ANCHE SENZA PREAVVISO
WE RESERVE THE RIGHT TO CHANGE THE DATA ALSO WITHOUT NOTICE.

Rev.3 - 2010





CERTIFICATE CERTIFICATO

Internal manufacturing checks with monitoring of the final assessment (Module A1) according to Directive 97/23/EC

Controllo di fabbricazione interno e sorveglianza della verifica finale (Modulo A1) secondo direttiva 97/23/CE

Certificate No.: PED-MI-02-06-004041-003

Certificato No.:

**Name and postal address
of manufacturer:**

**GEMELS S.r.l.
Via G. Matteotti, 117**

Nome ed indirizzo del costruttore:

I-24069 Trescore Balneario (BG)

The manufacturer is - after examination of the prerequisites - authorized to provide his pressure equipment manufactured within the scope of the examination with the CE-Mark and our identification number as illustrated:

Previo esame dei prerequisiti, il costruttore è autorizzato a fornire l'attrezzatura a pressione nell'ambito dell'esame del marchio CE e del nostro numero identificativo come illustrato

CE 0948

Test report No.:

Rapporto di collaudo No.:

R-PED-MI-02-06-004041-003

Scope of examination:

Campo di validità:

Industrial steel valves

Type GB 2	2 way ball DN 32 - DN 50
Type GB 3	3 way ball DN 32 - DN 50
Type GBF-GBS	2 way ball DN 32 - DN 50
Type GPK 2	2 way ball DN 32 - DN 40
Type GPK 3	3 way ball DN 32 - DN 40
Type GM	2 way ball DN 32 - DN 100
Type GV2/GV3	high pressure ball DN 32 - DN 50
Type GR2	2 way ball DN 75
Type GHP	2 way ball DN 40 - DN 50
Type VU	check DN 30 - DN 40

Manufacturing plant:

Officina di produzione:

I-24069 Trescore Balneario (BG)

Milano, 18/06/2002

**TÜV ITALIA Srl
Ente Notificato PED dir. 97/23/CE**

Please see remarks on reverse.
Pregasi osservare le note sul retro.

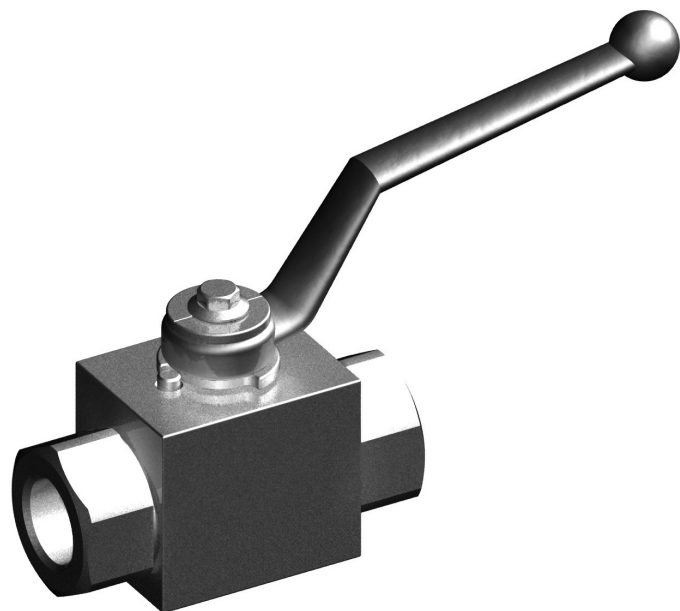
TÜV Italia s.r.l.
Via Bettola, 32
20092 Cinisello B. (MI)

Tel.: 02-66053.1
Fax: 02-66012802
E-Mail: tuv.bb@tuv.it

Notified Body, identification No. 0948
Organismo Notificato No. 0948

Stainless Steel

GE2 2-WAY HIGH PRESSURE BALL VALVES



GE2 G 1/2 DN13 4 4 4 4 A B

Type and way of valve
GE2 2-way high pressure ball valves

Valves dimension of inch

GAS	ANSI/ASME	SAE	DIN 2353	DIN 2353
DIN/ISO 228	B1.20.1 NPT	J1926-1	HEAVY SERIES	LIGHT SERIES
G 1/8	N 1/8	SAE4	8S	6L
G 1/4	N 1/4	SAE6	10S	8L
G 3/8	N 3/8	SAE8	12S	10L
G 1/2	N 1/2	SAE12	14S	12L
G 3/4	N 3/4	SAE16	16S	15L
G 1"	N 1"	SAE20R	20S	18L
G 1 1/4 R	N 1 1/4 R	SAE24R	25S	22L
G 1 1/2 R	N 1 1/2 R		30S	28L
			38S	35L
				42L

Nominal dimension

- DN4
- DN6
- DN10
- DN13
- DN20
- DN25

Body material

- 4 1,4404

Adapter material

- 4 1,4404

Stem material

- 4 1,4404

Ball material

- 4 1,4404

Ball seat material

- A POM
- D PEEK
- G PA612
- K GEMPTFE
- C PTFE

Adapter and stem seal material

- B NBR
- E FKM
- F EPDM
- L MVQ

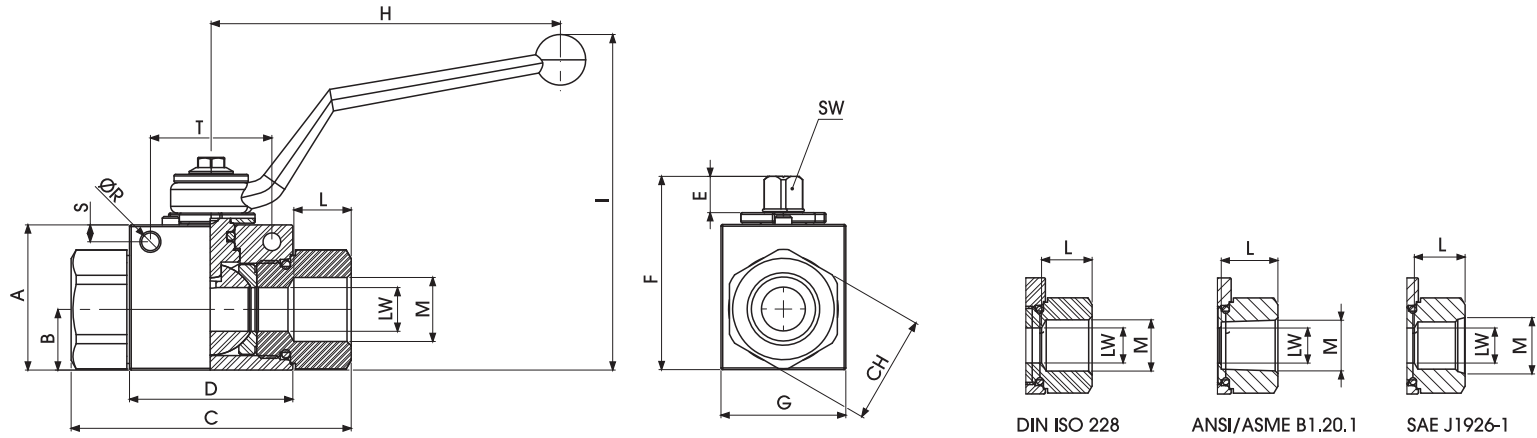
Specifications

- Type: ball valve GE 2way
- Body: block
- Material: 1,4404
- Ball seats: from DN4 up to DN25
- O-Rings: NBR, FKM, EPDM, MVQ
- Operating pressure: 500 Bar depending on valve size and seal materials selected
- Temp range: -60°C to +230°C depending on seal material selected

"The company reserves the right to operate dimensional changes without prior notice".

34.1.4

Fixing holes



GE2 DIN ISO 228 BSP

Fixing holes

TYPE	PN	DN	A	B	C	D	E	F	G	H	I	L	M	CH	ØR	S	T	SW	LW	WEIGHT Kg	ITEM CODE
GE2 G 1/8	50 MPa	4	35	14,5	71	42,4	11	49	30	110	91,5	11	G 1/8	24	5,25	4,5	34	9	4	0,505	GE2GGT05044AF10
GE2 G 1/4	50 MPa	6	35	14,5	71	42,4	11	49	30	110	91,5	15,5	G 1/4	24	5,25	4,5	34	9	6	0,49	GE2GGT15044AF10
GE2 G 3/8	50 MPa	10	40	17,4	73	44,4	11	54,25	35	110	96,5	15,5	G 3/8	30	5,25	4,5	34	9	10	0,644	GE2GGT25044AF10
GE2 G 1/2	50 MPa	13	43	18	83	48,4	11	57	37	110	99,5	17	G 1/2	32	5,25	5	36	9	13	0,757	GE2GGT35044AF10
GE2 G 3/4	40 MPa	20	55	23,4	95	62,5	14	73,5	45	180	106,5	21	G 3/4	41	6,25	6	50	14	20	1,438	GE2GGT44044AF10
GE2 G 1"	35 MPa	25	65	29,5	112	66,5	14	83,5	55	180	116,5	24	G 1"	50	6,25	6	50	14	25	2,223	GE2GGT53044AF10
GE2 G 1" 1/4 R	35 MPa	25	65	29,5	120	66,5	14	83,5	55	180	116,5	24	G 1" 1/4	55	6,25	6	50	14	25	2,273	GE2GGR63044AF10
GE2 G 1" 1/2 R	35 MPa	25	65	29,5	124	66,5	14	83,5	55	180	116,5	24	G 1" 1/2	60	6,25	6	50	14	25	2,386	GE2GGR73044AF10

GE2 ANSI/ASME B1.20.1 NPT

Fixing holes

TYPE	PN	DN	A	B	C	D	E	F	G	H	I	L	M	CH	ØR	S	T	SW	LW	WEIGHT Kg	ITEM CODE
GE2 N 1/8	50 MPa	4	35	14,5	71	42,4	11	49	30	110	91,5	11	N 1/8	24	5,25	4,5	34	9	4	0,505	GE2NNT05044AF10
GE2 N 1/4	50 MPa	6	35	14,5	71	42,4	11	49	30	110	91,5	17	N 1/4	24	5,25	4,5	34	9	6	0,49	GE2NNT15044AF10
GE2 N 3/8	50 MPa	10	40	17,4	73	44,4	11	54,25	35	110	96,5	17	N 3/8	30	5,25	4,5	34	9	10	0,644	GE2NNT25044AF10
GE2 N 1/2	50 MPa	13	43	18	83	48,4	11	57	37	110	99,5	21	N 1/2	32	5,25	5	36	9	13	0,757	GE2NNT35044AF10
GE2 N 3/4	40 MPa	20	55	23,4	95	62,5	14	73,5	45	180	106,5	21	N 3/4	41	6,25	6	50	14	20	1,438	GE2NNT44044AF10
GE2 N 1"	35 MPa	25	65	29,5	112	66,5	14	83,5	55	180	116,5	24	N 1"	50	6,25	6	50	14	25	2,223	GE2NNT53044AF10
GE2 N 1" 1/4 R	35 MPa	25	65	29,5	120	66,5	14	83,5	55	180	116,5	24	N 1" 1/4	55	6,25	6	50	14	25	2,273	GE2NNR63044AF10
GE2 N 1" 1/2 R	35 MPa	25	65	29,5	124	66,5	14	83,5	55	180	116,5	24	N 1" 1/2	60	6,25	6	50	14	25	2,386	GE2NNR73044AF10

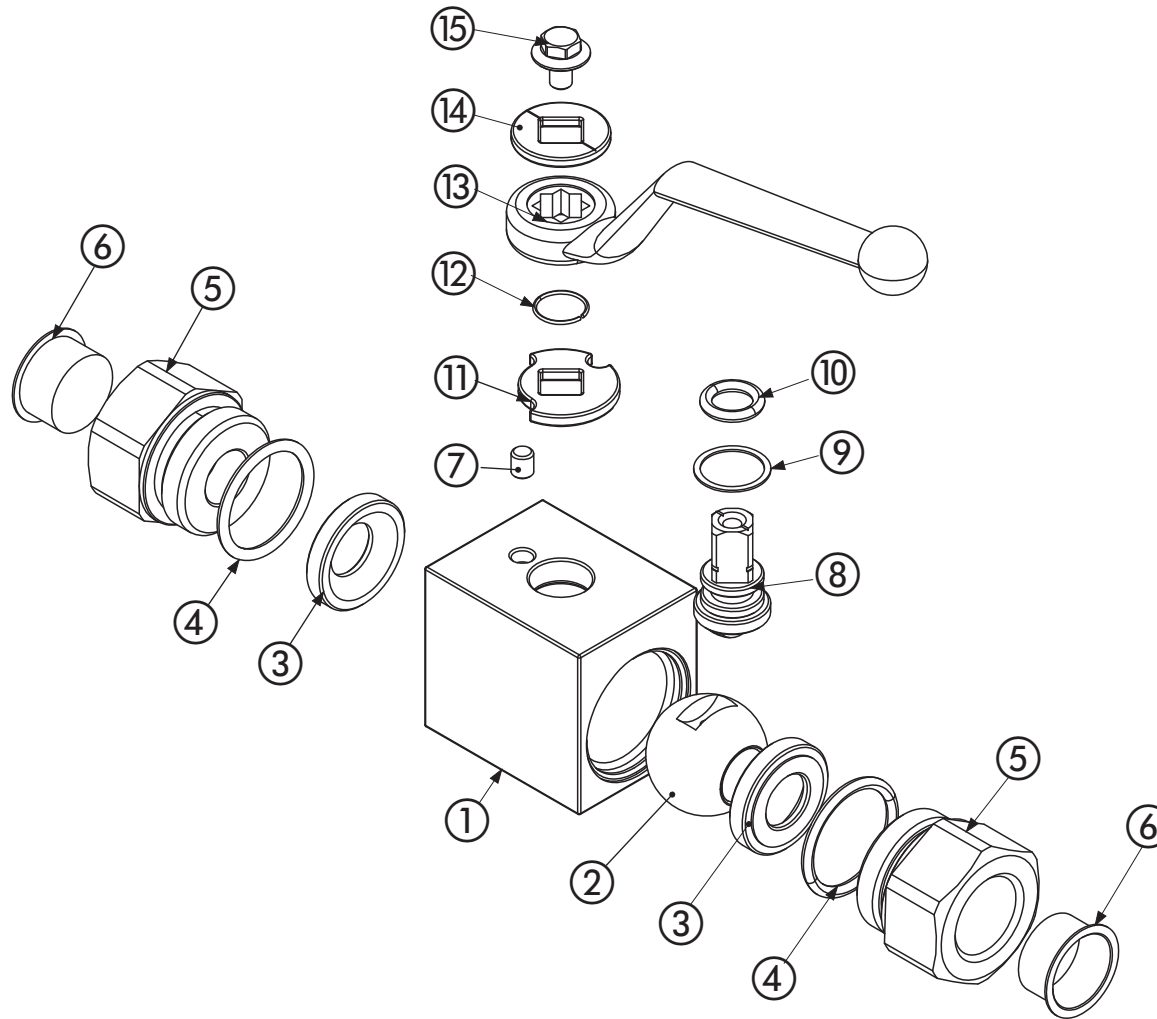
GE2 SAE J1926-1

Fixing holes

TYPE	PN	DN	A	B	C	D	E	F	G	H	I	L	M	CH	ØR	S	T	SW	LW	WEIGHT Kg	ITEM CODE
GE2 SAE4	50 MPa	6	35	14,5	71	42,4	11	49	30	110	91,5	15,5	7/16 UNF	24	5,25	4,5	34	9	6	0,49	GE2EEE05044AF10
GE2 SAE6	50 MPa	10	40	17,4	73	44,4	11	54,25	35	110	96,5	16	9/16 UNF	30	5,25	4,5	34	9	10	0,644	GE2EEE15044AF10
GE2 SAE8	50 MPa	13	43	18	83	48,4	11	57	37	110	99,5	17,5	3/4 UNF	32	5,25	5	36	9	13	0,757	GE2EEE25044AF10
GE2 SAE12	40 MPa	20	55	23,4	95	62,5	14	73,5	45	180	106,5	23	1" 1/16 UN	41	6,25	6	50	14	20	1,438	GE2EEE34044AF10
GE2 SAE16	35 MPa	25	65	29,5	112	66,5	14	83,5	55	180	116,5	23	1" 5/16 UN	50	6,25	6	50	14	25	2,223	GE2EEE43044AF10
GE2 SAE20R	35 MPa	25	65	29,5	120	66,5	14	83,5	55	180	116,5	23	1" 5/8 UN	55	6,25	6	50	14	25	2,273	GE2EEE53044AF10
GE2 SAE24R	35 MPa	25	65	29,5	124	66,5	14	83,5	55	180	116,5	23	1" 7/8 UN	60	6,25	6	50	14	25	2,386	GE2EEE63044AF10

"The company reserves the right to operate dimensional changes without prior notice".

GE2 2-WAY HIGH PRESSURE BALL VALVES



Pos	Description	Material	Q.tà
1	Body	1,4404	1
2	Ball	1,4404	1
3	Ball seat	POM	2
4	Adapter o-ring	NBR	2
5	Adapter	1,4404	2
6	Caps	PVC	2
7	Spine	1,4301	1
8	Stem	1,4404	1
9	Stem ring	POM	1
10	Stem o-ring	NBR	1
11	Washer	1,4301	1
12	Seeger	1,4301	1
13	Handle	ZINC	1
14	Washer	1,4301	1
15	Screw	Din 6921 A2	1

On request

- Reduced bore
- O-Ring in EPDM, FFKM, MQV
- Seals in PEEK, PA 612, RPTFE, GEMPTFE
- Special Threads
- Pressure Class PN 100 to PN 500
- Pneumatic and electrical actuator
- Security block
- Locking device

• For further special requests please consult our technical/commercial service

"The company reserves the right to operate dimensional changes without prior notice".



DET NORSKE VERITAS

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. **CERTCC2-00093-93-AQ-BRI-SINCERT**

*Si attesta che / This certifies that
Il sistema di gestione per la qualità di / the quality management system of*



**ALFAGOMMA DIVISIONE IDRAULICA
ALFAGOMMA GERMANY GMBH**

Stabilimento: Friedrich der Große - 44628 Herne - Germany

Stabilimento: Waidmannstr. 12 - 22769 Hamburg - Germany

Stabilimento: Lechstraße 19 - 90451 Nürnberg - Germany

*È conforme ai requisiti della norma per i sistemi di gestione per la qualità
Conforms to the quality management systems standard*

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa certificazione è valida per il seguente campo applicativo:

This certificate is valid for the following products or services:

*(Ulteriori chiarimenti riguardanti lo scopo e l'applicabilità dei requisiti della normativa si possono ottenere consultando l'organizzazione certificata)
(Further clarifications regarding the scope and the applicability of the requirements of the standard(s) may be obtained by consulting the certified organization)*

**Progettazione, produzione, commercializzazione ed assistenza post-vendita di tubi flessibili,
tubi raccordati, raccordi, adattatori ed accessori metallici per impianti idraulici**

*Design, manufacturing, wholesale and service of flexible hoses, hose assembly metallic fittings,
adapters and accessories for hydraulic systems*

Data Prima Emissione

First Issue Date

1993-08-06

Data di scadenza

Expiry Date

2012-11-27

Luogo e data

Place and date

Agrate Brianza, (MI) 2009-12-29

SINCERT

ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE

SGQ Registrazione N. 003A
SGA Registrazione N. 003D
PRD Registrazione N. 003B

Membro degli Accordi di Mutuo Riconoscimento EA e IAF
Signatory of EA and IAF Mutual Recognition Agreements

*per l'Organismo di Certificazione
for the Accredited Unit*

DET NORSKE VERITAS ITALIA S.R.L.

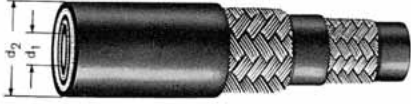
Settore EA : 14 - 17

Nicola Sergio Campanile

Lead Auditor

Vittore Marangon
Management Representative

2SC/2STC



Hochdruckschlauch
2SC/2STC EN 857
Slimline

extrem kleine Biegeradien, 30% geringeres Gewicht als SN-Schlauch

Innen- und Außenschicht:
synth. Kautschuk
Einlage:
zwei Stahldrahtgeflechte
Temperaturbereich:
von -40 °C bis +100 °C

High pressure hose
2SC/2STC EN 857
Slimline

extremely small bending radii weighs 30% less than SN hose

Inner tube and outer cover:
synthetic rubber
Reinforcement:
two wire braids
Temperature range:
from -40 °C up to +100 °C

DN	Inch	d ₁	d ₂	Biege- radius	Maximaler Arbeits- druck	Prüf-druck	Berst-druck	Zulässiger negativer Überdruck	Gewicht
				bend radius	maximum working pressure	proof pressure	burst pressure	vacuum	weight
		mm	mm	mm	bar	bar	bar	bar	kg/m
6	1/4"	6,6	14,2	75	400	800	1600	0,95	0,290
8	5/16"	8,1	16,0	85	350	700	1400	0,95	0,350
10	3/8"	9,7	18,3	90	330	660	1320	0,95	0,460
12	1/2"	12,9	21,5	130	275	550	1100	0,95	0,510
16	5/8"	16,1	24,7	170	250	500	1000	0,95	0,615
20	3/4"	19,0	28,6	200	215	430	860	0,80	0,785
25	1"	25,7	36,6	250	165	330	660	0,80	1,110

2SN



Hochdruckschlauch
2SN EN 853

mit dünner Außenschicht ISO 1436,
SAE 100 R 2 AT

Innen- und Außenschicht:
synth. Kautschuk
Einlage:
zwei Stahldrahtgeflechte
Temperaturbereich:
von -40 °C bis +100 °C

High pressure hose
2SN EN 853

with thin outer cover ISO 1436,
SAE 100 R 1 AT

Inner tube and outer cover:
synthetic rubber
Reinforcement:
two wire braids
Temperature range:
from -40 °C up to +100 °C

DN	Inch	d ₁	d ₂	Biege- radius	Maximaler Arbeits- druck	Prüf-druck	Berst-druck	Zulässiger negativer Überdruck	Gewicht
				bend radius	maximum working pressure	proof pressure	burst pressure	vacuum	weight
		mm	mm	mm	bar	bar	bar	bar	kg/m
6	1/4"	6,4	15,0	100	400	800	1600	0,95	0,445
8	5/16"	7,9	16,6	115	350	700	1400	0,95	0,537
10	3/8"	9,5	19,0	130	330	660	1320	0,95	0,607
12	1/2"	12,7	22,2	180	275	550	1110	0,95	0,751
16	5/8"	15,9	25,4	200	250	500	1000	0,95	0,891
20	3/4"	19,0	29,3	240	215	430	850	0,80	1,083
25	1"	25,4	38,1	300	165	325	650	0,80	1,332
32	1 1/4"	31,8	48,3	420	125	250	500	0,80	1,990
40	1 1/2"	38,1	54,6	500	90	180	360	0,80	2,402
50	2"	50,8	67,3	630	80	160	320	0,80	3,120