

SX Series

SX-140-R

EUROFINS

N° 1907061-2

USER MANUAL

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1. Foreword

Thank you for your confidence in DARA for the acquisition of your pharmaceutical packaging machine. DARA applies the state-of-the-art technology for the design and manufacture of its machine, using materials of the best quality in them. Likewise, our machines include the best finishing fulfilling the demanding requirements of pharmaceutical industry.

This manual includes the description, installation, operation and other technical instructions required for a good knowledge of the machine, for a proper operation and to accomplish the best performance of it, always considering the safety of the user.

Therefore, **it is mandatory to read paying attention and understand the instructions contained in this manual before installing, starting up or using this machine.** When the reading is finished, keep the manual on a safe place.

The Documentation Department of **DARA** is at your disposal to clarify any doubt arisen from the reading of the manual, thanking in advance any suggestion to improve it.

DARA reserves the right to modify with no warnings the features of its machines, whenever they are taken to improve the performance, reliability or operation of them.

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2. Safety

The **SX Series** Bench Top **DARA** machines are designed and constructed in accordance with the currently applicable European legislation and complies with all the pertinent safety regulations:

- **Safe start and stop devices**, which allow any servicing during automatic or manual cycle, when they are carried out after a cycle stop during an acknowledged stable stop status.
- **Emergency Stop Pushbuttons** with mechanical lock, located in the areas where operator is most commonly placed.
- **Electric and Pneumatic supply switch off devices**, which allow to carry out cleaning, maintenance and repair works with safety.
- **Fixed covers**, which require a tool to be opened, and must be only opened by authorized maintenance or repair personnel, and locked again after these operations.
- **Warning signals** about remaining risks around the machine and its covers.

All these safety devices form an integral part of the machine. Modification, removal or failure to maintain any of these items increases the risk of accidents and entails infringement of **Directive 2009/104/EC** on the use of work equipment.

The manufacturer declines all responsibility for damages arising from use of the machine with any modification, deletion or failure to maintain its components made without the express prior approval of the manufacturer.

Any repairs must be performed by qualified technicians. Inexpert repairs may entail serious risks for users.

HIT THE FRONT EMERGENCY PUSHBUTTON IN THE EVENT OF ANY EMERGENCY, ACCIDENT OR INCIDENT WITH THE MACHINE. IT WILL STOP INSTANTLY AT ANY POINT IN THE SEQUENCE.

THIS METHOD OF STOPPING THE MACHINE MUST ONLY BE USED IN EMERGENCIES, NEVER AS A NORMAL WAY TO STOP THE MACHINE.

TO RETURN TO NORMAL OPERATION, RESET THE PUSHBUTTON BY ROTATING THE RED KNOB ONE TURN IN A CLOCKWISE DIRECTION ONCE THE EMERGENCY SITUATION HAS BEEN RESOLVED.



2.1. Safety Signals and their Meaning



EAR PROTECTION



RISK OF INHALATION



HAND FLATTENING OUT



FINGERS TRAPPING



ROLLERS HAND TRAPPING



HAND TRAPPING IN PULLEY AND BELT



HOT SURFACE



HAND TRAPPING



HIGH VOLTAGE



UNDETERMINED RISK



HIGH VOLTAGE

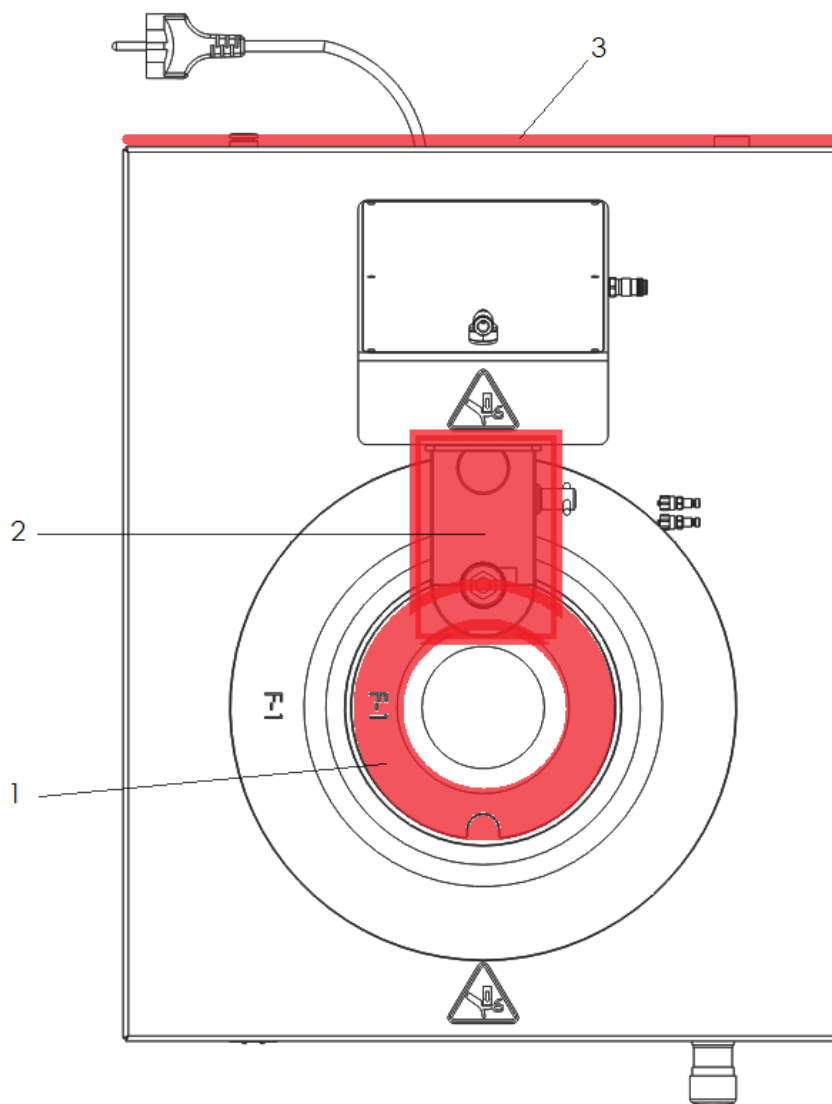


DANGER AREA

NOTE These are general signals. Your machine can include some of them, not all.

2.2. Danger areas

These areas which are to be specified next are the ones that during normal operation of the machine, for Manual or Automatic Mode, may represent a risk for the operator.



1. Dividing plate area. Rotary move of the dividing plate, with a fixed outer guide. Fingers, hair or dressing sleeves trapping risk.
2. Containers closing area. Downwards move. Hands or fingers crushing risk.
3. Electric area. High voltage risk.

3. General Information

3.1. Functional Presentation

The SX Series Table top machines are basically composed by a frame where the containers are placed on a turning pneumatic tray (starwheel) and a closing station column.

The operation of all work stations is by request with bimanual pushbuttons. When giving the order, it makes a 180° turn and closes the container. This equipment is designed and built for the closing of the format samples supplied by the customer.

3.2. Use and Limitations

The **SX Series** machines are designed and constructed exclusively for the automatic or manual filling (SX-100), closing (SX-140) and filling/closing (SX-200) of containers. These can be made from glass, plastic or metal.

This machine is specially designed and constructed for the closing of containers with caps as defined in your order.

DARA manufactures several versions of machine, always suited for the different requirements according the products and containers to be produced.

Before using this machine for the filling or closing of other containers, different that the ones it was designed for, please get in touch with the manufacturer.

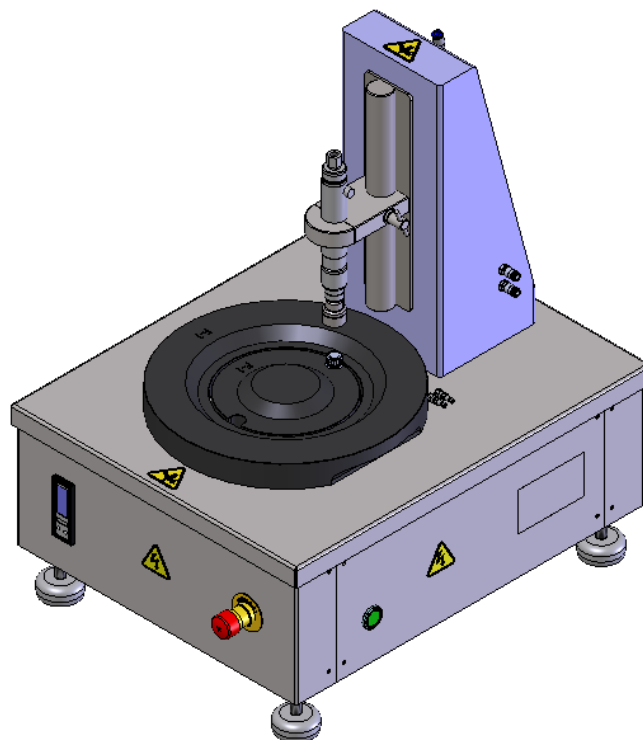


Figure: SX-140-R overview

3.2.1. Format Tables

		Recipe	A
Element	4ML BOTTLE		
Format mark	F-1		
Manufacturer	IMMUNO-CELL		
Manuf.'s ref.	PSZ-004		
Dara's ref.	Ft1		
Material	HDPE		
Weight			
Note: BLACK COLOR			
Element	SCREW CAP		
Format mark	F-1		
Manufacturer	IMMUNO-CELL		
Manuf.'s ref.	PSZ-C15		
Dara's ref.	Cp1		
Material	PP		
Note: BLACK COLOR			
Recipe	Dose	Product	Tested on
CUSTOMER'S APPROVAL (Date, Name, Signature) 12/03/2019		Name F. IBAÑEZ Date 11/03/2019	
Customer EUROFINIS 1047 Budapest, P.O. Box 150 H-1147 Budapest, Hungary Tel: +36 1 269 7990-244 Fax: +36 1 269 7990-245		Approved L.FERNANDEZ Name	Number 19070612CUST Rev.
All dimensions are in mm. This drawing is property of Dara and it is bonded and protected by Law.		ISO: OT-FOR-024_V01	Page 1/7

Figure: F-1 Format Table

<table border="1"> <tr> <td>Element</td> <td>20ML BOTTLE</td> </tr> <tr> <td>Format mark</td> <td>F-2</td> </tr> <tr> <td>Manufacturer</td> <td>IMMUNO-CELL</td> </tr> <tr> <td>Manuf.'s ref.</td> <td>PSZ-020</td> </tr> <tr> <td>Dara's ref.</td> <td>Ft2</td> </tr> <tr> <td>Material</td> <td>HDPE</td> </tr> <tr> <td>Weight</td> <td></td> </tr> <tr> <td colspan="2"> Note: BLACK COLOR </td> </tr> </table>		Element	20ML BOTTLE	Format mark	F-2	Manufacturer	IMMUNO-CELL	Manuf.'s ref.	PSZ-020	Dara's ref.	Ft2	Material	HDPE	Weight		Note: BLACK COLOR		<table border="1"> <tr> <td>Recipe</td> <td>B</td> </tr> <tr> <td colspan="2"> </td> </tr> </table>		Recipe	B												
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		ISO: OT-FOR-024_V01	Page 2/7																														

Figure: F-2 Format Table

		Recipe	C	
Element	15ML BOTTLE	* Approximate dimensions		
Format mark	F-3			
Manufacturer	VWR			
Manuf.'s ref.	215-3426S			
Dara's ref.	Ft3			
Material	PP			
Weight				
Note: TRANSLUCENT				
Element	SCREW CAP			
Format mark	F-3			
Manufacturer	VWR			
Manuf.'s ref.	215-3426S			
Dara's ref.	Cp3			
Material	PP			
Note: TRANSLUCENT				
Recipe	Dose	Product	Tested on	
CUSTOMER'S APPROVAL (Date, Name, Signature) 		Name F. IBAÑEZ Date 14/03/2019		
Customer EUROFINS Adóstatk. 159069241 01-09-299676 06442219		Approved L.FERNANDEZ Date 14/03/2019		
Customer EUROFINS		Name FORMAT TABLE	Number 19070612CUST	Rev. REV01
All dimensions are in mm. This drawing is property of Dara and it is bonded and protected by Law.			ISO: OT-FOR-024_V01	Page 3/7

Figure: F-3 Format Table

		Recipe		D	
Element	30ML BOTTLE	* Approximate dimensions			
Format mark	F-4				
Manufacturer	VWR				
Manuf.'s ref.	215-3443S				
Dara's ref.	Ft4				
Material	HDPE				
Weight					
Note: AMBER					
Element	SCREW CAP				
Format mark	F-4				
Manufacturer	VWR				
Manuf.'s ref.	215-3443S				
Dara's ref.	Cp4				
Material	PP				
Note: AMBER					
Recipe	Dose	Product		Tested on	
CUSTOMER'S APPROVAL (Date, Name, Signature)		Drawn F. IBÁÑEZ	Date 14/03/2019		
EUROFINS Technologies Hungary Kft. 1048 Budapest, P.O. Box 4156 Hungary Tel: +36 1 299 7996 Fax: +36 1 299 7996		Approved L.FERNANDEZ	Date 14/03/2019		
Customer EUROFINS		Number 19070612CUST			
		FORMAT TABLE		Rev. REV01	Page 4/7
All dimensions are in mm. This drawing is property of Dara and it is bonded and protected by Law.				ISO: OT-FOR-024_V01	

Figure: F-4 Format Table

		Recipe		E	
Element	60ML BOTTLE	* Approximate dimensions			
Format mark	F-5				
Manufacturer	THERMO FISHER SCIENTIFIC				
Manuf.'s ref.	312187-0002				
Dara's ref.	Ft5				
Material	PP				
Weight					
Note: TRANSLUCENT					
Element	SCREW CAP				
Format mark	F-5				
Manufacturer	THERMO FISHER SCIENTIFIC				
Manuf.'s ref.	712150-0280				
Dara's ref.	Cp5				
Material	PP				
Note: TRANSLUCENT					
Recipe	Dose	Product		Tested on	
CUSTOMER'S APPROVAL (Date, Name, Signature)		Name	Date		
		Drawn F. IBÁÑEZ	11/03/2019		
Customer		Approved L.FERNANDEZ		Number	Rev.
EUROINS		Name	FORMAT TABLE	19070612CUST	
All dimensions are in mm. This drawing is property of Dara and it is bonded and protected by Law.				ISO: OT-FOR-024_V01	Page 5/7

Figure: F-5 Format Table

<table border="1"> <tr> <td>Element</td> <td>10ML VIAL</td> </tr> <tr> <td>Format mark</td> <td>F-6</td> </tr> <tr> <td>Manufacturer</td> <td>ORIGIN</td> </tr> <tr> <td>Manuf.'s ref.</td> <td>TSV3220010C</td> </tr> <tr> <td>Dara's ref.</td> <td>Ft6</td> </tr> <tr> <td>Material</td> <td>GLASS</td> </tr> <tr> <td>Weight</td> <td></td> </tr> </table> Note: TRANSPARENT GLASS VIAL + GREY STOPPER		Element	10ML VIAL	Format mark	F-6	Manufacturer	ORIGIN	Manuf.'s ref.	TSV3220010C	Dara's ref.	Ft6	Material	GLASS	Weight		<table border="1"> <tr> <td>Recipe</td> <td>F</td> </tr> </table>		Recipe	F						
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Figure: F-6 Format Table

		Recipe	G
Element	25ML VIAL		
Format mark	F-7		
Manufacturer	ORIGIN		
Manuf.'s ref.	TSV3220025C		
Dara's ref.	Ft7		
Material	GLASS		
Weight			
Note: TRANSPARENT GLASS VIAL + GREY STOPPER			
Element	SCREW CAP		
Format mark	F-7		
Manufacturer	ORIGIN		
Manuf.'s ref.	422CPPW		
Dara's ref.	Cp6		
Material	PP		
Note: WHITE COLOR			
Recipe	Dose	Product	Tested on
CUSTOMER'S APPROVAL 12/03/2019 (Date, Name, Signature) 		Name F. IBAÑEZ	Date 11/03/2019
Customer EUROFIN S 1047 Budapest, Forat 56. sz. kft. Ad: Rákóczi út 11. sz. 1105 09576 Tel: 06 1 462 0000		Drawn L.FERNANDEZ	Approved L.FERNANDEZ
		Number 19070612CUST	Rev.
All dimensions are in mm. This drawing is property of Dara and it is bonded and protected by Law.		ISO: OT-FOR-024_V01	Page 7/7

Figure: F-7 Format Table

3.2.2. Drawings supplied by the costumer

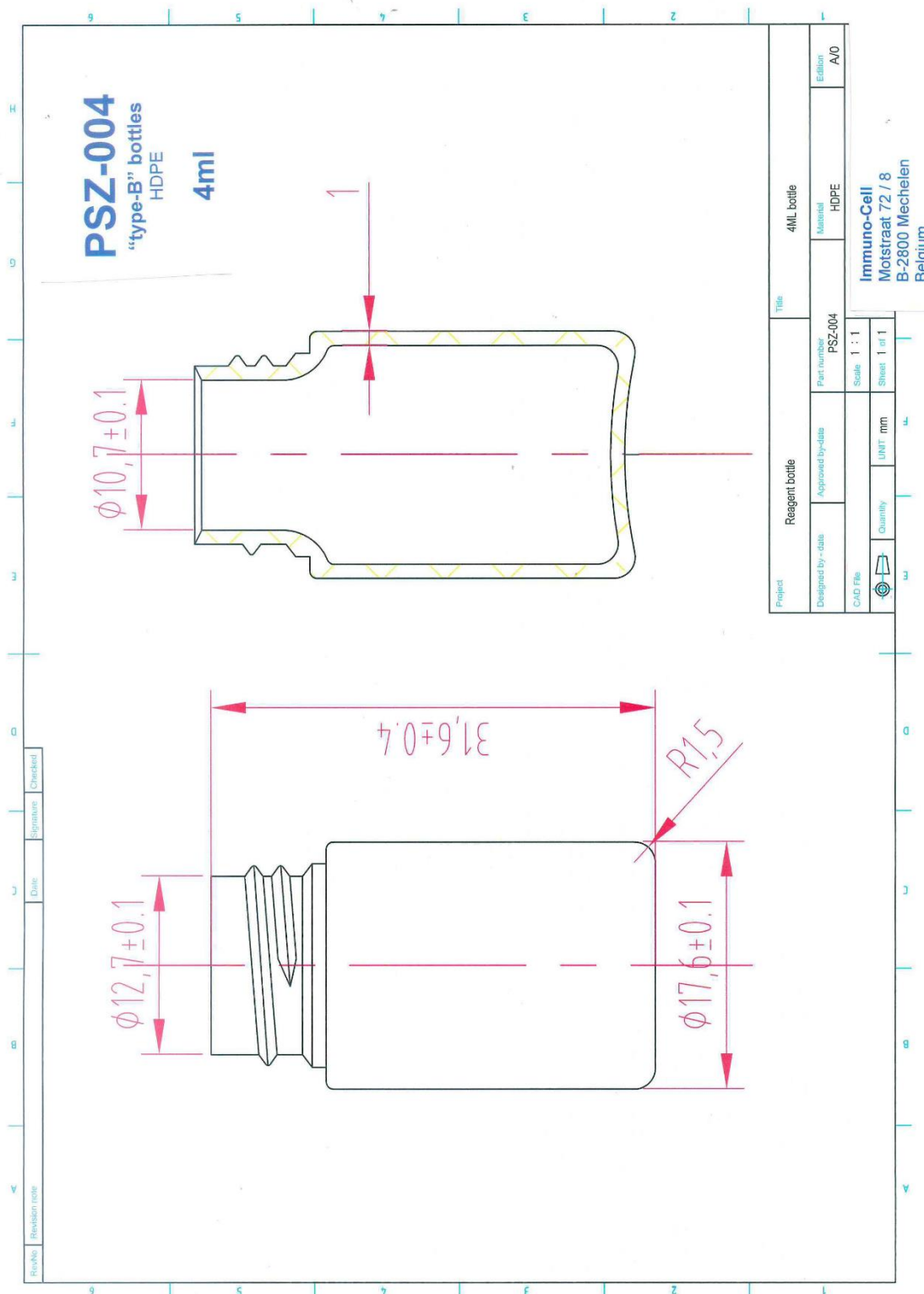


Figure: PSZ-004 drawing

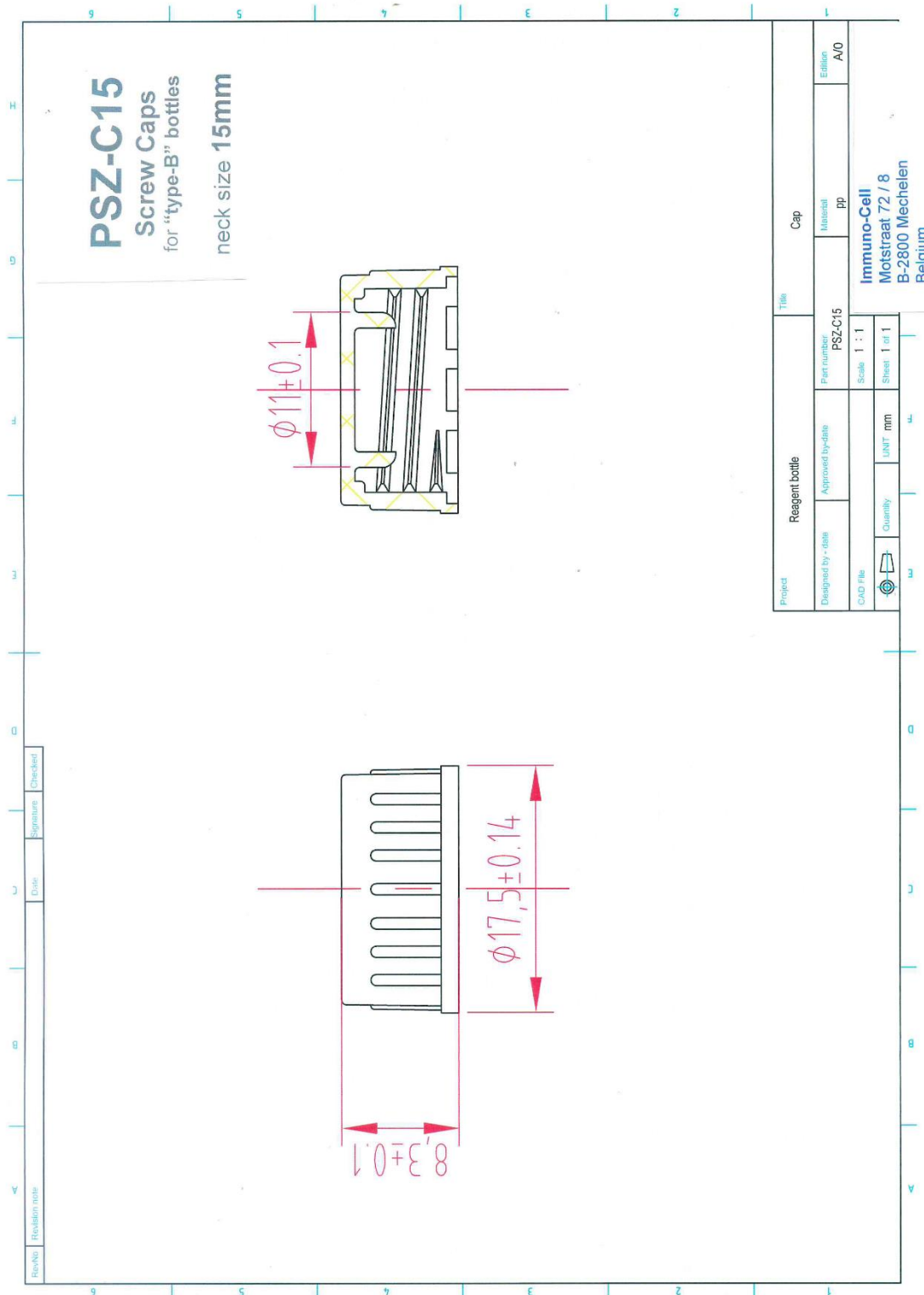


Figure: PSZ-C15 drawing

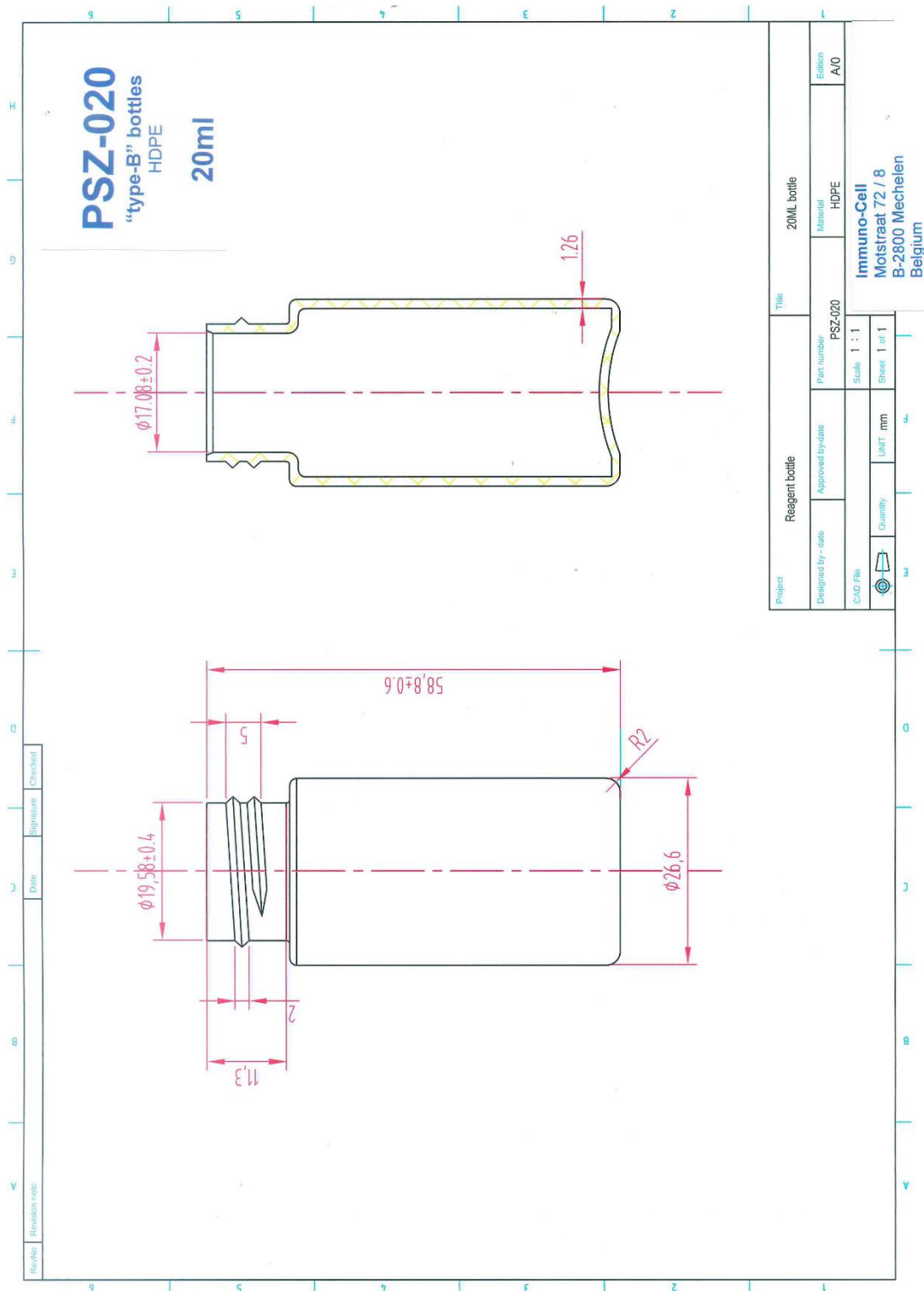


Figure: PSZ-020 drawing

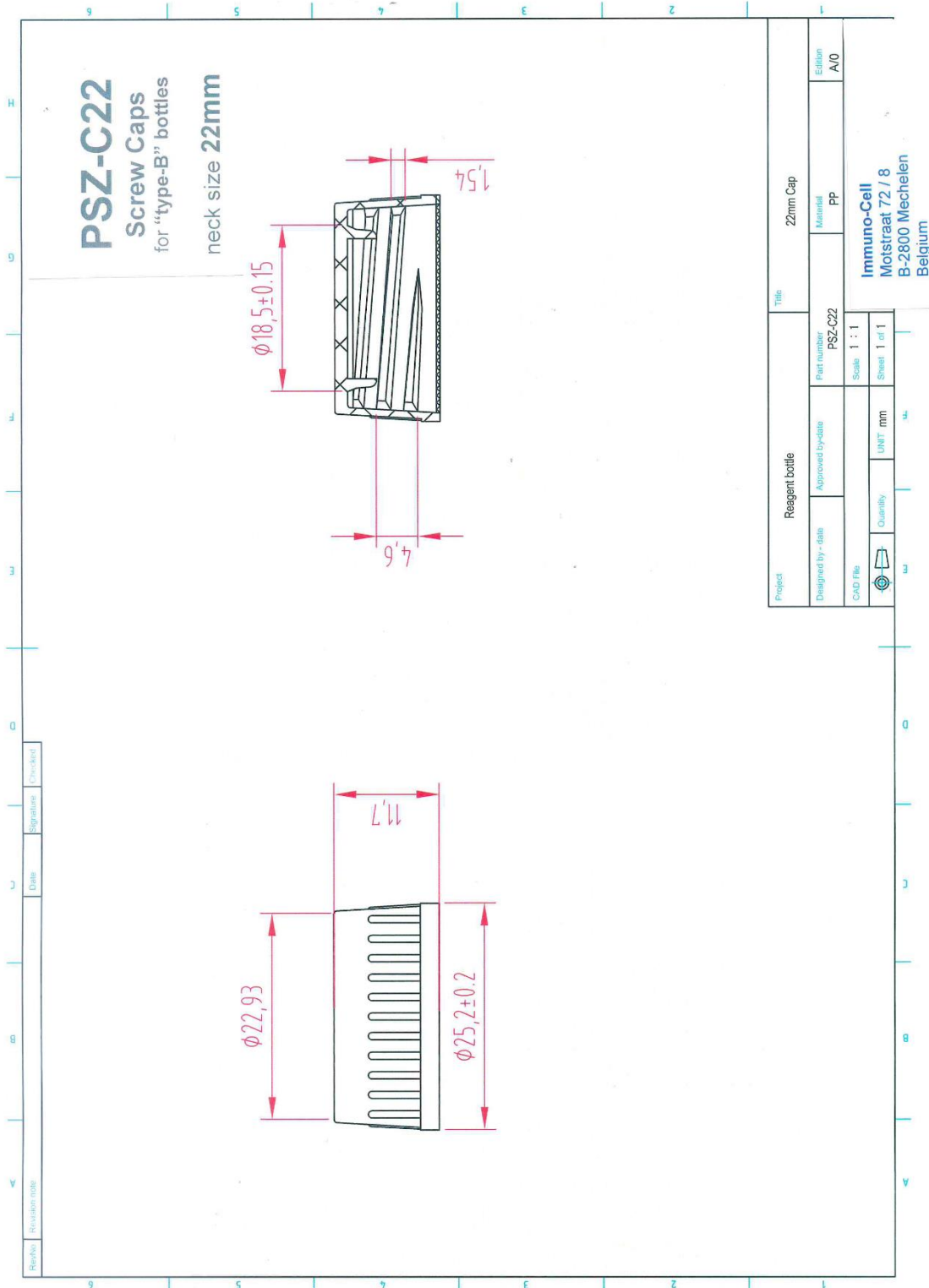


Figure: PSZ-C22 drawing

Capacity (ml)	NA Catalog #	Europe Cat#	NA Catalog #	Europe Cat#	Description	Bulk Package Qty	Material	Closure Material	Approx. Volume (ml)	Color	Closure Size (mm)	Torque (cm.g)	Height (mm)	Height without closure (mm)	Outer Diameter (mm)	Neck ID (mm)	Product Weight (g)	General Wall Thickness (mm)	Autoclavable
30	414004-100	215-3401	8022-1548	215-3401S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
30	414004-100	215-3402	8022-1548	215-3402S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3403	8022-1550	215-3403S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3404	8022-1552	215-3404S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3405	8022-1554	215-3405S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3406	8022-1556	215-3406S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3407	8022-1558	215-3407S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3408	8022-1560	215-3408S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3409	8022-1562	215-3409S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3410	8022-1564	215-3410S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3411	8022-1566	215-3411S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3412	8022-1568	215-3412S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3413	8022-1570	215-3413S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3414	8022-1572	215-3414S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3415	8022-1574	215-3415S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3416	8022-1576	215-3416S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3417	8022-1578	215-3417S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3418	8022-1580	215-3418S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3419	8022-1582	215-3419S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3420	8022-1584	215-3420S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3421	8022-1586	215-3421S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3422	8022-1588	215-3422S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3423	8022-1590	215-3423S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3424	8022-1592	215-3424S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3425	8022-1594	215-3425S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3426	8022-1596	215-3426S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3427	8022-1598	215-3427S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3428	8022-1600	215-3428S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3429	8022-1602	215-3429S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3430	8022-1604	215-3430S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3431	8022-1606	215-3431S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3432	8022-1608	215-3432S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3433	8022-1610	215-3433S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3434	8022-1612	215-3434S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3435	8022-1614	215-3435S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3436	8022-1616	215-3436S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3437	8022-1618	215-3437S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3438	8022-1620	215-3438S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3439	8022-1622	215-3439S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3440	8022-1624	215-3440S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3441	8022-1626	215-3441S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3442	8022-1628	215-3442S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3443	8022-1630	215-3443S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3444	8022-1632	215-3444S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3445	8022-1634	215-3445S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3446	8022-1636	215-3446S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3447	8022-1638	215-3447S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3448	8022-1640	215-3448S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
30	414004-110	215-3449	8022-1642	215-3449S	BOTTLE wide Mouth LPP 30ml - P12	LDPE	PP	36.5	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
60	414004-110	215-3450	8022-1644	215-3450S	BOTTLE wide Mouth LPP 60ml - P12	LDPE	PP	60.0	TRANSPARENT	28.4x5	19	25	100.12	34.7	215.40	9.5	12.40	-	-
125	414004-125	215-3451	8022-1646	215-3451S	BOTTLE wide Mouth LPP 125ml - P12	LDPE	PP	141.0	TRANSPARENT	38.4x5	25	36	100.12	50.9	287.40	21.0	14.03	-	-
250	414004-125	215-3452	8022-1648	215-3452S	BOTTLE wide Mouth LPP 250ml - P12	LDPE	PP	280.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
500	414004-125	215-3453	8022-1650	215-3453S	BOTTLE wide Mouth LPP 500ml - P12	LDPE	PP	544.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-
1000	414004-125	215-3454	8022-1652	215-3454S	BOTTLE wide Mouth LPP 1000ml - P12	LDPE	PP	1000.0	TRANSPARENT	43.4x5	31	44	100.12	50.9	331.40	21.0	14.03	-	-

Figure: 215-3443S drawing

Material

Bottle : Refer above table for material type, 100 % Virgin, FDA 21 CFR Compliance, USP Class VI passed.

Closure : Polypropylene, 100 % Virgin, FDA 21 CFR Compliance, USP Class VI passed

BSE/TSE Statement: These product is manufactured without the use of Raw materials of animal origin.

Latex Free Statement: No materials containing latex or natural rubber are used in the manufacturing, handling and packaging processes for this product.

Autoclave Caution:

1. Before Autoclaving separate / disengage the caps threads from bottle.
2. Do not stack products, this may cause vacuum and may lead to physical damage / collapse of product.

Description: Wide Mouth Bottle

Material Recycle Code



Drawing: Not to Scale



Release: 03/09/17

Revision: 4

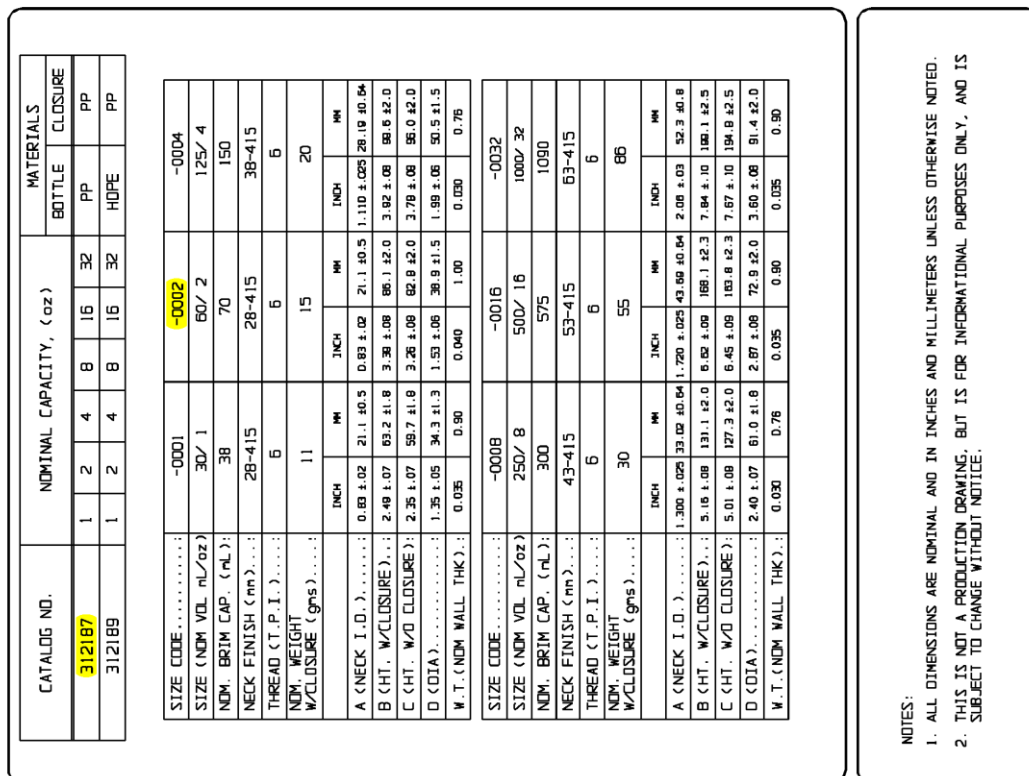
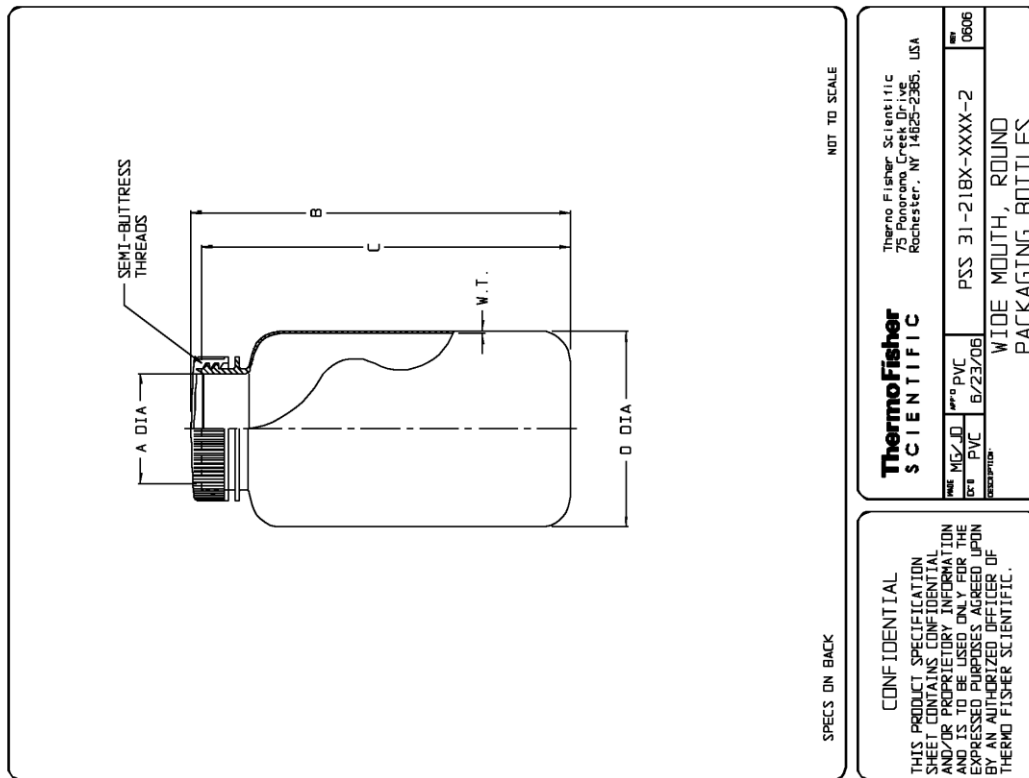


Figure: 31287-0002 drawing

CATALOG NO.	NOMINAL SIZE (mm)												MATERIAL
712150	13	20	24	28	33	38	-	43	48	53	63	100*	PP
712171	13	20	24	28	-	38	38-430	43	48	53	63	-	AMBER PP

* CATALOG NO. 712150-1000 IS WHITE PP

NOTE:

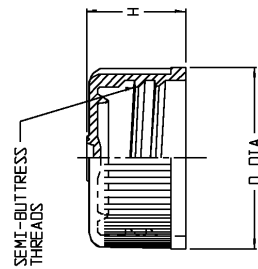
1. CATALOG NO. 712150—USE WITH NARROW-MOUTH AND WIDE-MOUTH BOTTLES AND CARBOYS, Erlenmeyer flasks, etc.
2. CATALOG NO. 712171—USE WITH AMBER NARROW-MOUTH, WIDE-MOUTH ROUND AND RECTANGULAR BOTTLES.

SIZE CODE	-0130	-0200	-0240	-0280	-0330	-0380
THREAD FINISH (mm) :	13-415	20-415	24-415	28-415	33-415	38-415
THREAD (T.P.I.) :	12	8	8	6	6	6
INDIM. WEIGHT (gms) :	0.6	2	2.5	3	4	5
Ø (DIA.)	Ø 10.0 ± 0.05	Ø 12.00 ± 0.05	Ø 12.44 ± 0.05	Ø 12.80 ± 0.05	Ø 13.90 ± 0.05	Ø 14.25 ± 0.05
(HEIGHT)	0.30 ± 0.05	0.50 ± 0.05	0.47 ± 0.05	0.45 ± 0.05	0.45 ± 0.05	0.45 ± 0.05

SIZE CODE	-03B4	-0430	-0480	-0530	-0630	-1000
THREAD FINISH (mm)	3B-430	4.3-415	4B-415	53-415	63-415	100-415
THREAD (T.P.I.)	6	6	6	6	6	5
NOM. WEIGHT (gms)	10	6	8	9	14	37
D (DIA)	1.00 ± 0.02 24.0	1.04 ± 0.02 40.7	1.07 ± 0.02 50.8	1.10 ± 0.02 57.4	1.25 ± 0.02 68.3	1.50 ± 0.02 76.2
H (HEIGHT)	1.17 ± 0.02 29.6	1.20 ± 0.02 30.5	1.21 ± 0.02 30.8	1.22 ± 0.02 31.0	1.24 ± 0.02 31.3	1.26 ± 0.02 31.8

NOTES:

1. ALL DIMENSIONS ARE NOMINAL AND IN INCHES AND MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS IS NOT A PRODUCTION DRAWING, BUT IS FOR INFORMATIONAL PURPOSES ONLY, AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



SPECS ON BACK

NOT TO SCALE

ThermoFisher
SCIENTIFIC

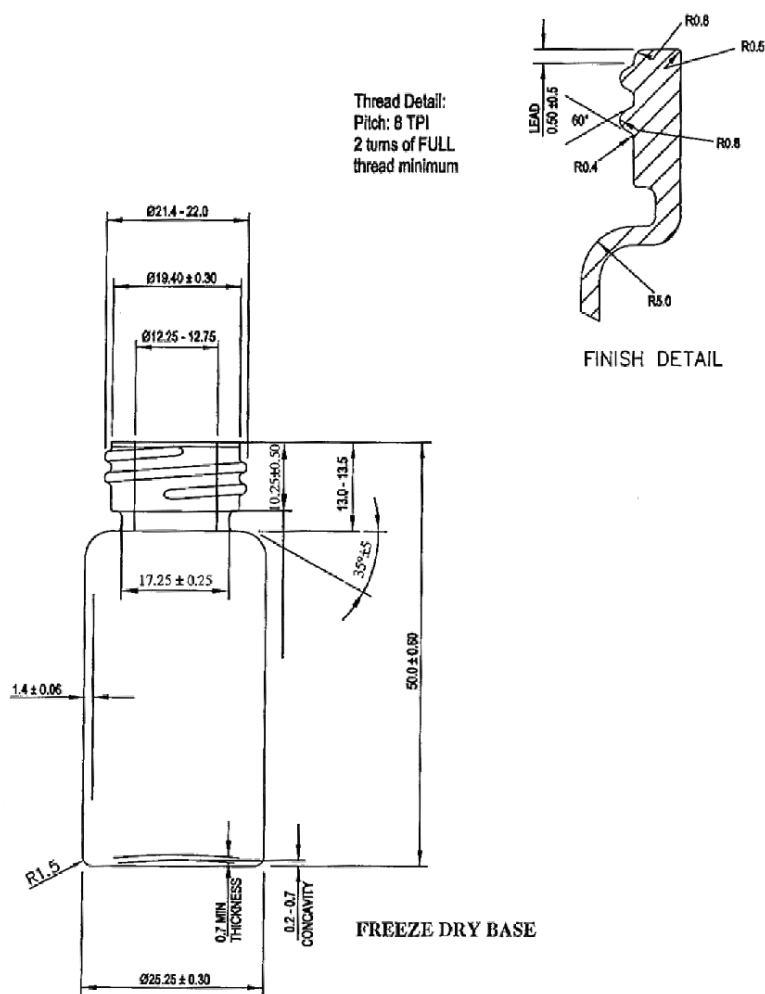
Thermo Fisher Scientific
75 Panorama Creek Drive
Rochester, NY 14625-2385, USA

DATE	MC/JD	APP'D PVC	PSS 71-21XX-XXXX-I	KEY
CCO	PVC	9/15/05		

SCREW CLOSURES

Figure: 712150-0280 drawing

ORIGIN
SPECIFICATION SHEET

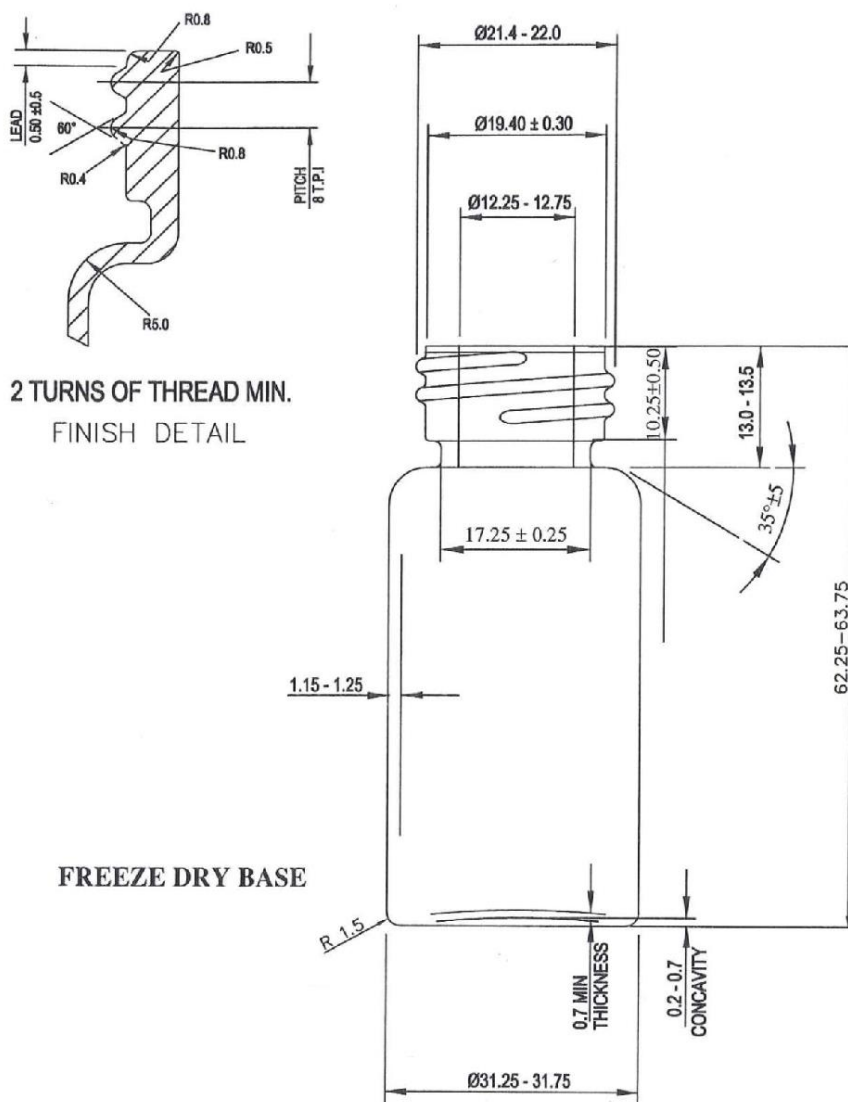


TSV3220010C

10ml Clear Tubular Diagnostic Screw Neck Vial

Figure: TSV3220010C drawing

ORIGIN
SPECIFICATION SHEET

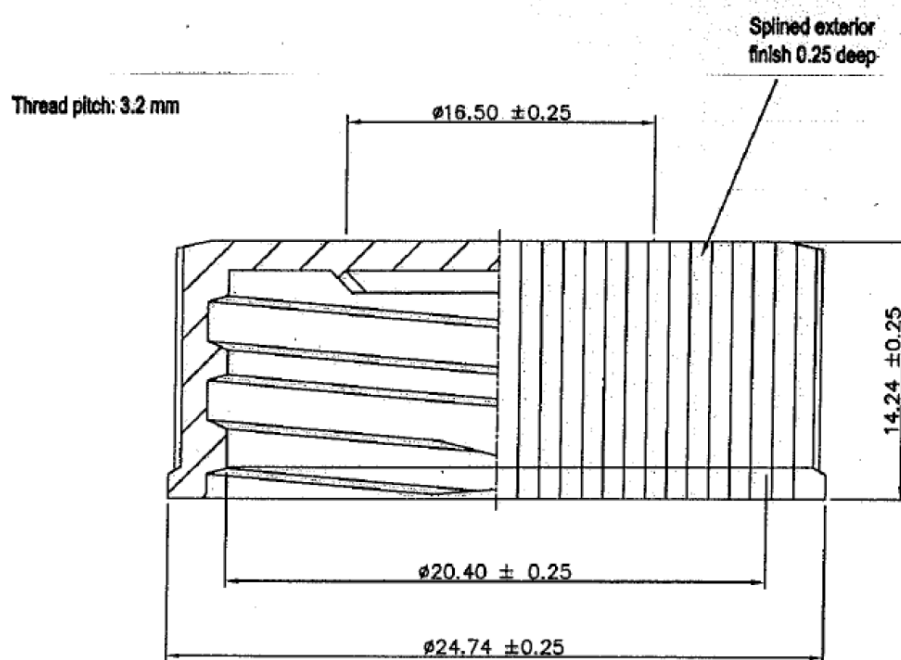


TSV3220025C

25ml Clear Tubular Diagnostic Screw Neck Vial

Figure: TSV3220025C drawing

ORIGIN
SPECIFICATION SHEET



General Tolerance : ± 0.25 mm

422CPPW

22mm Polypropylene white cap

Figure: 422CPPW drawing

3.3. Machine Layout

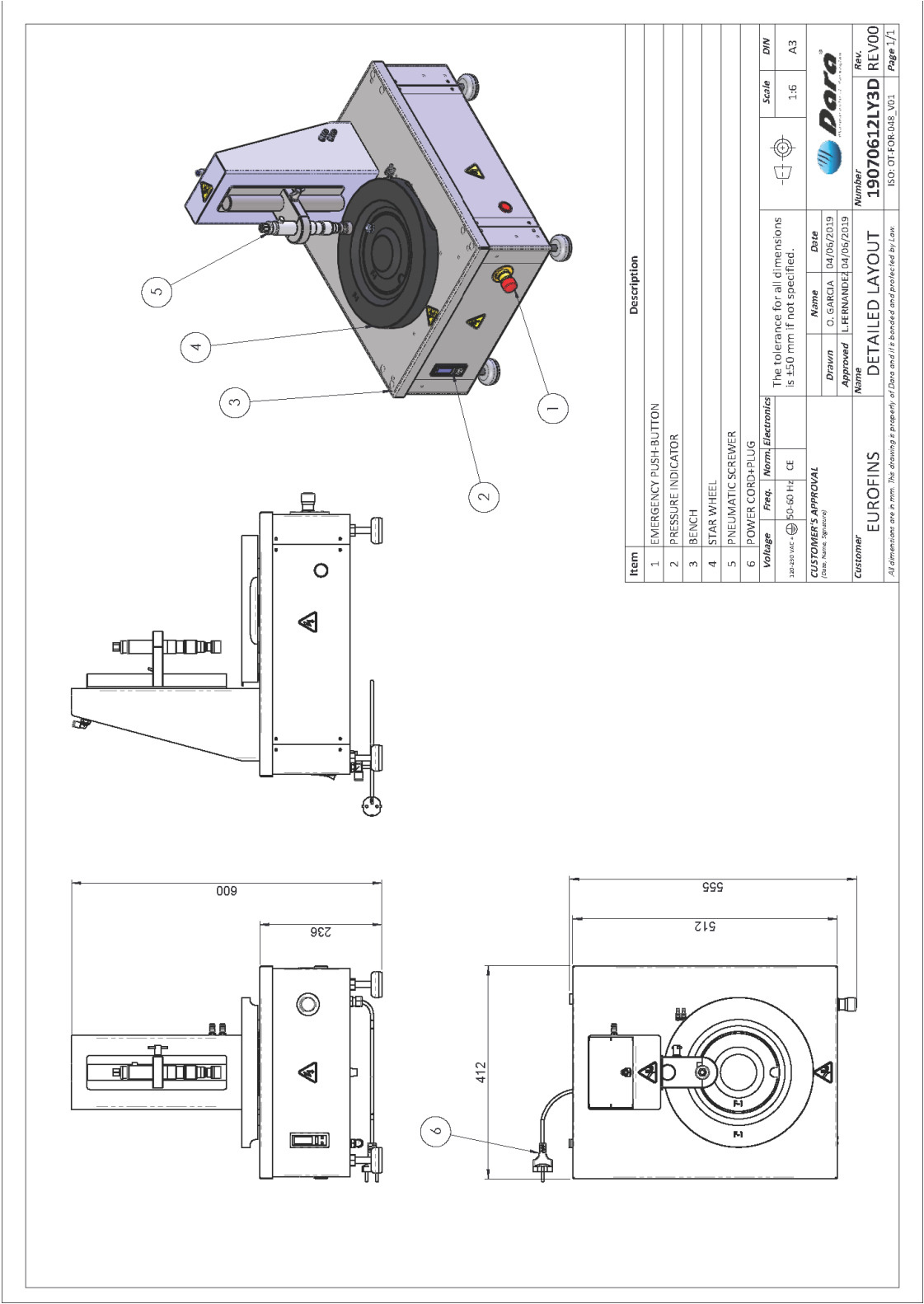


Figure: Machine Layout

3.4. Identification plate

The machine is identified by a features plate located on the side frame of the machine.

This plate shows the Number, Model and Year of manufacture.

			
Serial number / year:	1907061-2/19		
Type - model:	SX-140-R		
Electrical supply:	120-230 VAC + ⊕	50-60 Hz	0,15 kW
Maquinaria Industrial Dara SL Polígono Industrial Coll de la Manyà - C/ Galileu Galilei, 5-19 08403 Granollers (Barcelona) SPAIN - www.dara-pharma.com			
			

Figure: Identification plate

3.5. CE Conformity Declaration



Maquinaria Industrial DARA, S.L.
Polig. Ind. Coll de la Manyà - Galileo Galilei 5-19
08403 - GRANOLLERS (Barcelona) - Spain

EU DECLARATION OF CONFORMITY

We declare, under our sole responsibility that the machine:

Type:	TABLE TOP
Model:	SX-140-R
Serial N°:	1907061-2
Year of Manufacture:	2019

Conforms the following European Directives:

Machinery Directive (2006/42/CE)
Low Tension Directive (2014/35/UE)
Electromagnetic Compatibility Directive (2014/30/UE)

the transposition regulation and provisions of the following applied rules:

<u>Stand.</u>	<u>Title</u>	<u>Edition/ Date of publication</u>
EN-ISO-12100:2012	Safety of machinery. General principles of design. Risk assessment and risk reduction.	2012
EN-ISO-14120:2016	Safety of machinery. Guards. General requirements for the design and construction of fixed and moveable guards.	2016
EN-894-3	Safety of machinery. Ergonomics requirements for the design of displays and control actuators. Part 3: Control Actuators.	2001+A1:2009
EN-ISO-13849-1	Safety of machinery. Safety related parts of control systems. Part 1: General principles of design.	2016
EN-574	Safety of machinery. Two-hand control devices. Functional aspects. Principles for design.	1997+A1:2008
EN-ISO-13850	Safety of machinery. Emergency stop function. Principles for design.	2016
EN-60204-1:2007/ A1:2009	Safety of machinery. Electrical equipment of machines. Part 1: General requirements.	2007

This declaration is only valid for machines in the conditions and at the moment when they were commercialized, being expressly uncovered any possible future changes made by the final user.

Granollers, June 7th 2019

Roberto Calvo
Technical Manager

4. Technical Features

4.1. Electric Features

Voltage (Power)	230 VAC
Maneuver Coils Voltage	24 V. C.C.
Control Voltage	24 V. C.C.

4.2. Pneumatic Features

Operation (Range)	6 bar
Minimum value that causes an emergency	4,5 bar
Main Inlet	Ø 10 mm

4.3. Functional Features

4.3.1. Environment Conditions

- Temperature: from 5 ÷ 50°C.
- Humidity: from 30 ÷ 90% without condensation.

Fire protection: The possible type of fire should be considered before selecting the type of fire extinguisher to be used. It is recommended to use fire extinguish systems that could not damage electronic circuits. (CO₂ dry ice extinguisher).

4.3.2. Noise

Continue acoustic pressure level average equalled A:

$$L_{eq} = 71,7 \text{ dB(A)}$$

4.4. Accessories

Crimp Close Unit	—
Screw Close Unit	X
Pressure Closing Head	—

5. Transport and Handling

To handle the machine once it has been unpacked, a fork truck or transpalette must be used, according to the following instructions:

1. Check that the power supply has been switched off. All access and handling area must be cleared.
2. Unplug the supply wire of the machine.
3. Disassemble all the equipments which are not fastened to the machine (i.e. peristaltic pump) in case it is necessary.
4. Insert the forks of the truck or *transpalette* below the frame of the machine, or push the frame after unblocking the wheels.
5. Place the machine in its final position.
6. Block the wheels to operate the machine (if the machine has them).

6. Installation and Start-up

6.1. Placement of Machine

The room required for the placement of the Monobloc must be wide enough for the user to carry out the works and see the indicators of the machine, as well as to carry out maintenance operations. A distance of 800mm is recommended.

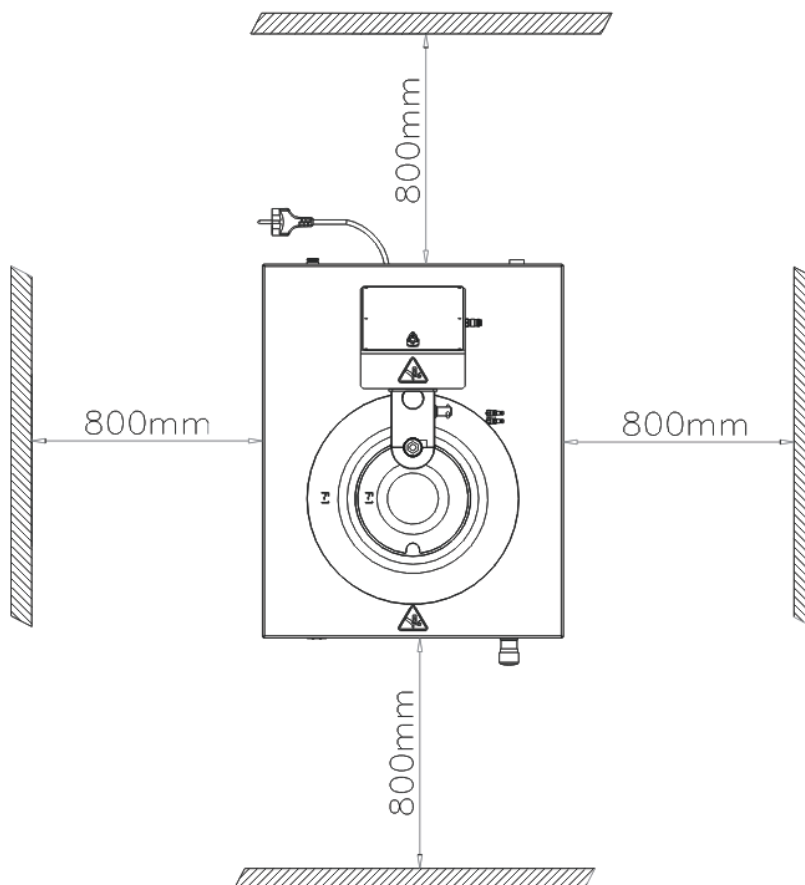


Figure: Layout for machine placement

6.2. Connections

Warning: Liability of **DARA** begins at the power supply connection terminals of the machine. Protection against isolation failures, shortcuts and overcharge in connections before power supply connection terminals, is a full liability of the customer.

Before connecting the machine to power supply, the customer has to check the features of electric protection devices on his electric installation and the section of power supply wires arriving to connection terminals according to the maximum use intensity as shown in this manual, in order to insure the protection of persons and goods.

The connections to carry out for the installation of SX-140, is as follows:

6.2.1. Power supply

Line: See Technical Features
Power: 0,15 kW.
Wiring: Section of wires 1,5 mm²
Location of connection: Bottom rear panel plug (included)

(*) See electric drawings

6.2.2. Pneumatic supply

Main Inlet: Ø10 mm
Operation Range: 6 bar (Minimum value that causes an emergency stop = 4.5 bar).
Compressed Air Consumption: 1,3 L/cycle
Location of connection: Bottom rear panel plug (included)

(*) See pneumatic drawings

7. Operation

7.1. Control Panel

The controls are located in the main panel. This panel is in front of the normal working place. They are composed by an Emergency pushbutton (stop), a digital pressure meter and two pushbuttons to start the machine.

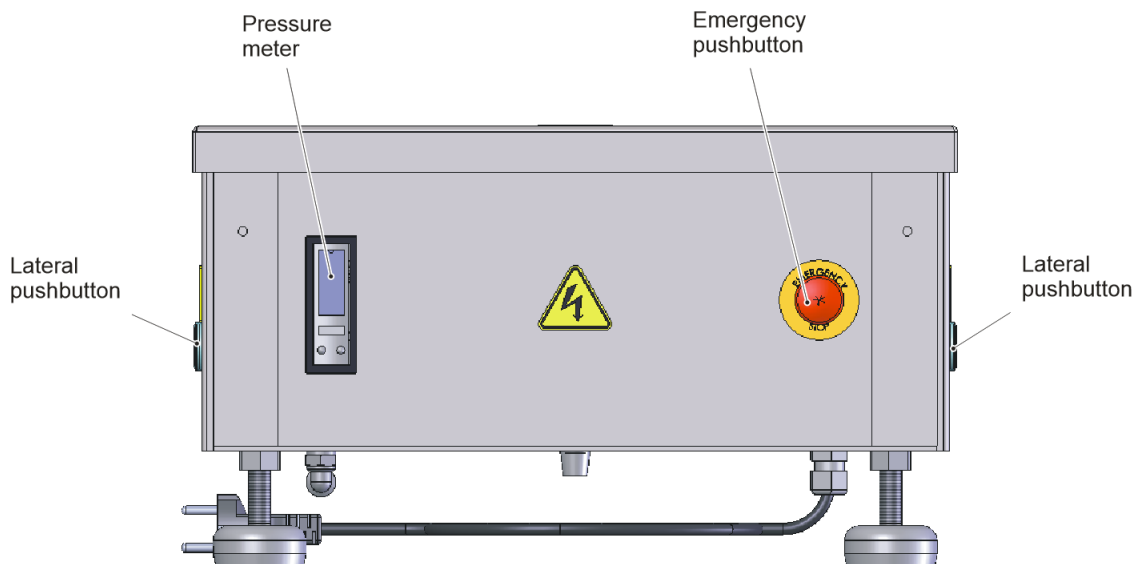


Figure: Front control panel

Lateral pushbuttons: The machine executes the operating sequences when both pushbuttons are pressed simultaneously. When the operator stops pressing the pushbuttons, the machine remains in the last sequence.

The rear panel includes the main switch. Below the machine, there are the air pressure inlet and power supply cord.

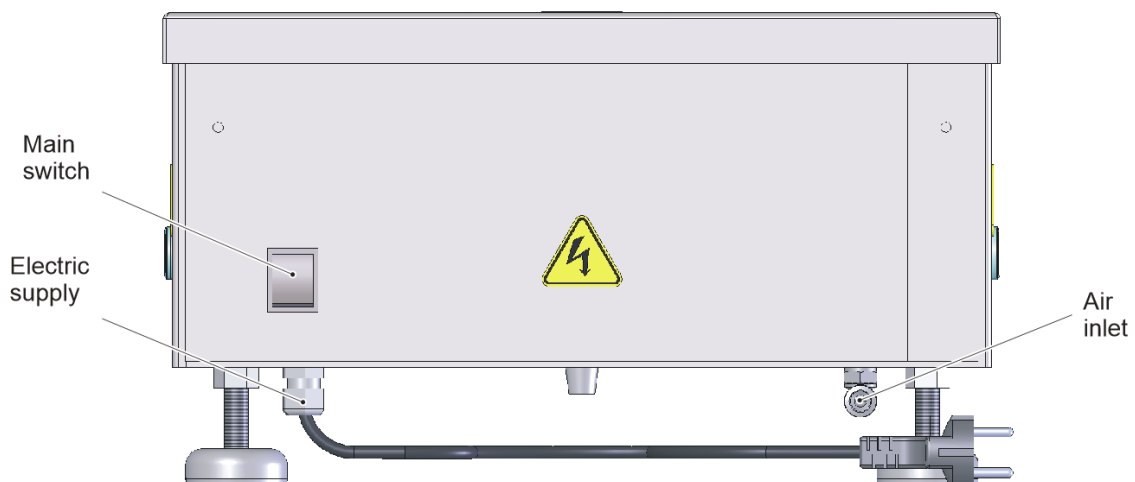


Figure: Rear control panel

7.1.1. Emergency Pushbutton

This is the strictest and shortest safety. When the pushbutton is pressed, all the power of the machine including air supply and electric systems power is cut.

7.2. Main Description

Prior to start operating the machine, if different formats must be produced, the necessary adjustments for the container to produce must be carried out. These are mainly the change of the dividing plate, the outer guide and the cone cap for those ones corresponding to the desired format.

In the front panel unlock the Emergency Pushbutton, so the machine waits for a first bimanual push.

The container must be inserted in the dividing plate, with the cap in position. Once it is inserted, the operator must press the bimanual control to start the cycle.

The dividing plate turns 180° taking the container with the cap above it. Over the stop of the inlet guide there is a fiberoptics detector that starts the pneumatic turn cylinder to place the containers under the closing head.

Once the pneumatic polyurethane brake is activated, the containers are locked and the closing starts.

In the front panel, there is an Emergency pushbutton. When it is pushed by the operator, the machine is suddenly stopped at any part of the cycle.

This must be ONLY used as an emergency stop, not as a normal stop for the machine.

7.3. Description of the Program

The program of the PLC rules the machine through the digital Inputs and Outputs as specified in the included Electrical drawings.

The digital inputs are 24VDC PNP signals that can be checked by its correspondent led in the CPU (see Inputs drawing). There are several inputs which are only used to activate some alarms, while others are used for the sequential automation of the machine.

The digital outputs are 24VDC PNP signals that can also be checked through their led in the CPU (see Outputs drawing). There are outputs which are only used for the sequential automation of the machine.

As it has been explained, there are several statuses for the machine which must be known:

- | | |
|---------------------------|--|
| 1.- Machine with no power | - No air supply. |
| 2.- EMERGENCY | - There is current in the machine, but no power or air supply. |
| 3.- AUTOMATIC/MANUAL | - Production mode. |

The machine is purely sequential. No step is executed unless the previous one is fulfilled.

7.3.1. Sequence of Closing Program

The main sequence will be:

1. Switch on power supply.
2. Switch on air supply (6 bars).
3. Unlock EMERGENCY STOP.
4. The air flows in progressively.
5. The closing slide rises.
6. The machine waits until 4 bars are reached.
7. The machine waits until the dividing plate (or starwheel) is in any of the two possible positions.
8. The machine checks that the closing slide is in the top position.
9. The machine checks if the bimanual is pressed.
10. The machine turns the dividing plate (or starwheel) to the side opposite where it is.
11. The machine waits until the plate is in the correct position.
12. The closing slide lowers.
13. The brake is activated (only for screw close mode).
14. The machine waits for the closing slide in the lower position or low pressure.
15. The machine activates the closing head.
16. The closing slide rises.
17. The machine checks that the closing slide is in the top position.
18. The rubber brake is unlocked.
19. The machine turns the dividing plate.
20. The machine checks that the dividing plate has turned.

7.4. Cycles Programming

The machine performs a sequential cycle if both lateral pushbuttons (bimanual control) are pressed.

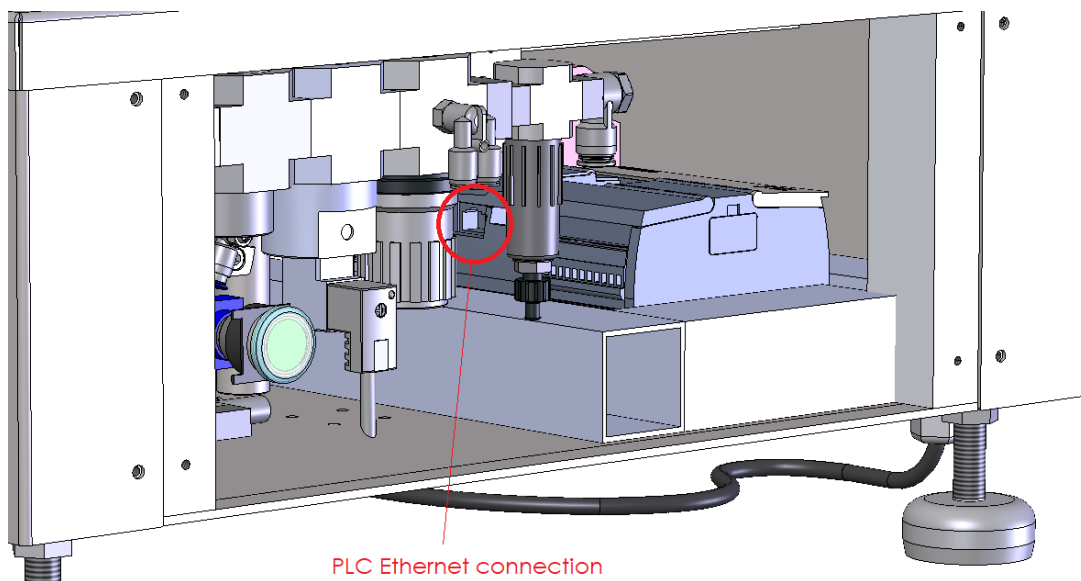
The start cycle is:

- 1- Switch on power supply.
- 2- Switch on air supply.
- 3- Wait until pressure meter indicates more than 4,5 bar.
- 4- Press simultaneously both lateral pushbuttons (bimanual control) to start the cycle.

Programming/Modification actions

Working times set up can be modified since a web server. The steps to access to the web are:

- 1- Switch off power supply.
- 2- Unscrew the right-side cover (the one that have the identification plate).
- 3- Switch on power supply.
- 4- Connect the machine to the computer with an Ethernet wire. See connection in the picture:



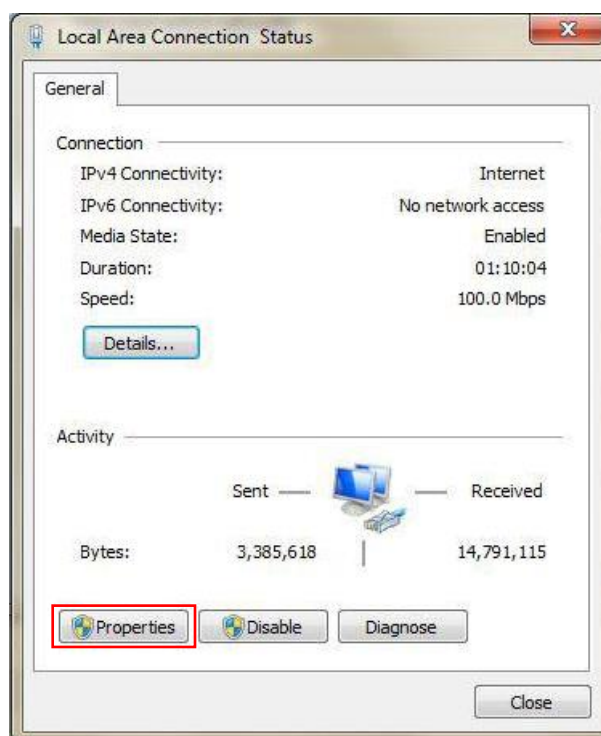
- 5- Once connected, access to *Red connections*.

6- Go to *Open Network and Sharing Center* (see image below).

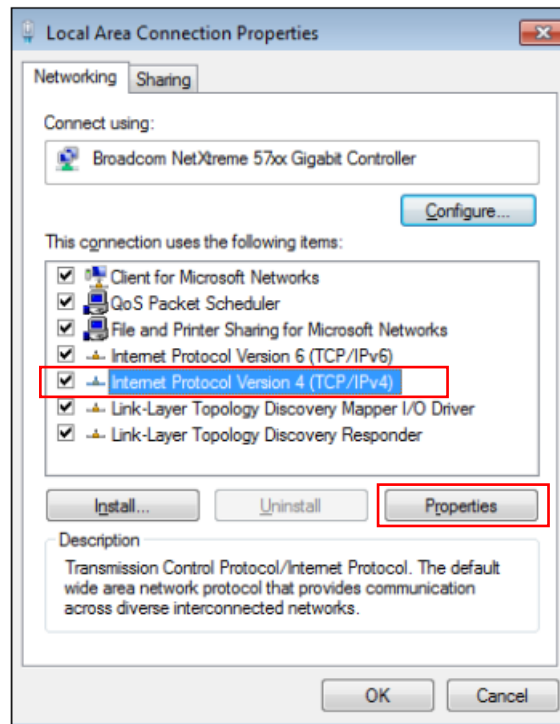


7- *Type of Access – Internet / Connections – Local area connection*. Open *Local area connection Status*.

8- A *Local Area Connection Status* window will open. Go to *Properties*.



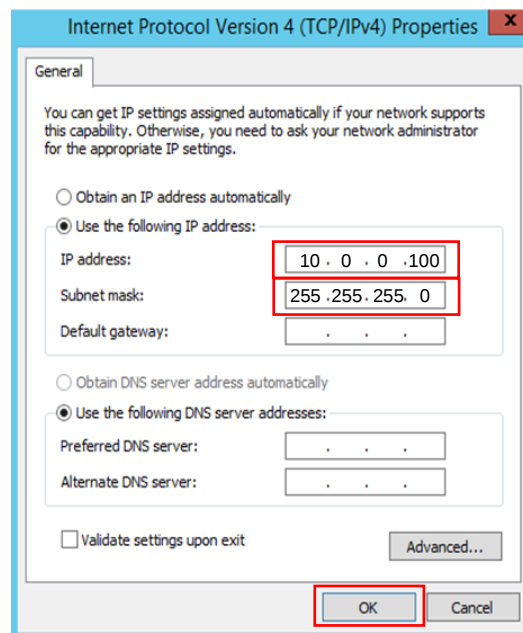
9- Select *Internet Protocol Version 4 (TCP / IPv4)* and press the *Properties* button.



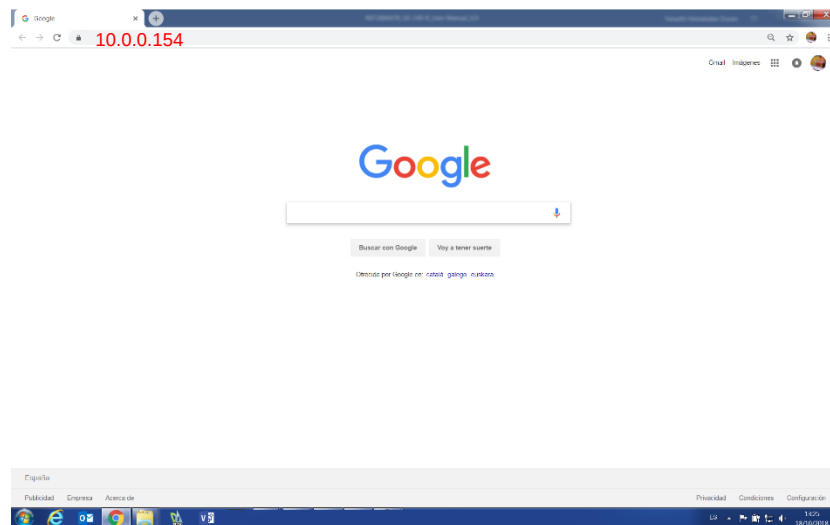
10- In *General* tab, check the option *Use the following IP address*. Write in it the work IP. In this case:

- IP address: 10.0.0.100
- Subnet Mask: 255.255.255.0

11- Press *OK*.



12- Open the internet browser and put the IP of the automaton, replacing the value 100 with the value 154.

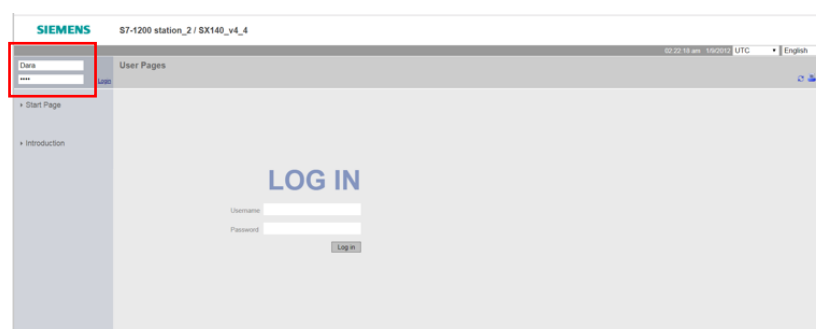


13- This address takes to a screen created for the modification of the parameters. Press *Intro*.

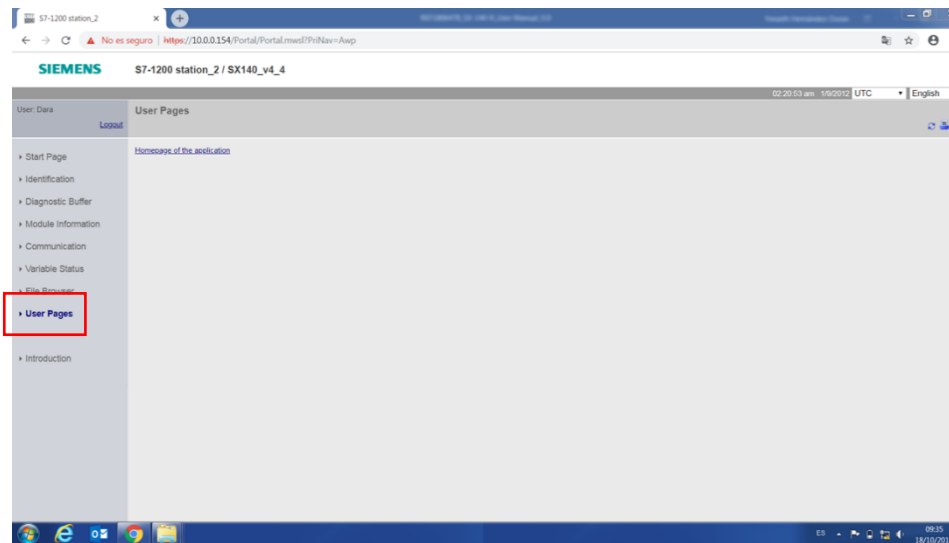


14- Introduce the User Name and the Password.

User Name	Dara
Password	8784



- 15- After Login, a warning screen appears. Click *Go to this website (Not recommended)*.
 16- Go to *User Pages*.



- 17- The following table of parameter appears.

TIEMPOS / TIME	VALOR DE FORZADO VALUE TO FORCE	VALOR DE VISUALIZACION DISPLAY VALUE
RETRASO ACT.FRENO BREAK ACTIVATION DELAY	 Set a new Time	150 ms
RETRASO CERRADOR ABAJO DOWN CLOSER DELAY	 Set a new Time	200 ms
RETRASO PARA SUBIR UP DELAY	 Set a new Time	250 ms
T.PINZA CERRADA GRIPPER CLOSER TIME	 Set a new Time	1500 ms
T.CICLO AUTOMAT. AUTOMATIC CICLE DELAY	 Set a new Time	2000 ms

CONCEPTO / CONCEPT	INTERRUPTOR / SWITCH	ESTADO / STATE
BAJAR GIRANDO ROTATING LOWER	 Set a new Value	1 Bool
FRENO FRASCO BOTTLE BREAK	 Set a new Value	1 Bool
BAJADA POR PRESION LOWERED BY PRESSURE	 Set a new Value	0 Bool
BIMANUAL BIMANUAL	 Set a new Value	0 Bool
FRENAR ABAJO BRAKE LOWER	 Set a new Value	0 Bool
POT.EXTERNO EXTERNAL POT.	 Set a new Value	0 Bool

All the parameters have been duly adjusted by Dara and they must remain intact. The only parameter that could be changed is the *Automatic Cycle Delay*.

If a change in the value is necessary, introduce the number in the blank box and press *Set a new Time*. It is possible to adjust the value during a cycle.

NOTE: If the web page doesn't work, press the button to go back to the previous page. This action may be performed several times.

8. Adjustments and Change of Format

DANGER

Before starting any maintenance or service procedure in the machine ensure that the electric power of the machine and air supply are cut. This is valid for the machine itself and for the external feeders, conveyors or any other peripheral device which may interact with the main machine at any time. Dara accepts no liabilities on personal injuries or damages to the machine, arisen from the unfulfillment of this basic rule.

WARNING

The operations required for setting up, servicing and maintenance of the machine and its peripherals must be only undertaken by specially trained personnel who are aware of the functioning and potential dangers of the machine. Dara accepts no liabilities on personal injuries or damages to the machine, arisen from the unfulfillment of this requirement.

In order to produce the different formats for which the machine has been designed, it is necessary to replace some parts and to adjust the position of others.

In the first case, the parts to replace are indicated below, specifically for each format, together with an explanation on how to disassemble or re-assemble the new component.

Please, notice that each format component (those that require to be replaced) is engraved with the number of format (or formats) it is used for. Therefore, in case of doubt, checking the formats that a certain component is designed for will help for the configuration of the machine to produce a new format.

To complement and understand the following information, it is necessary to check the table of formats to relation each packaging component with the format it is used for, and determine which will be the stations that perform each step of the packaging process.

8.1. Format components

In the following image a top and a front view of the components that must be changed or adjusted is shown. Further indications for their assembling and disassembling can be found below.

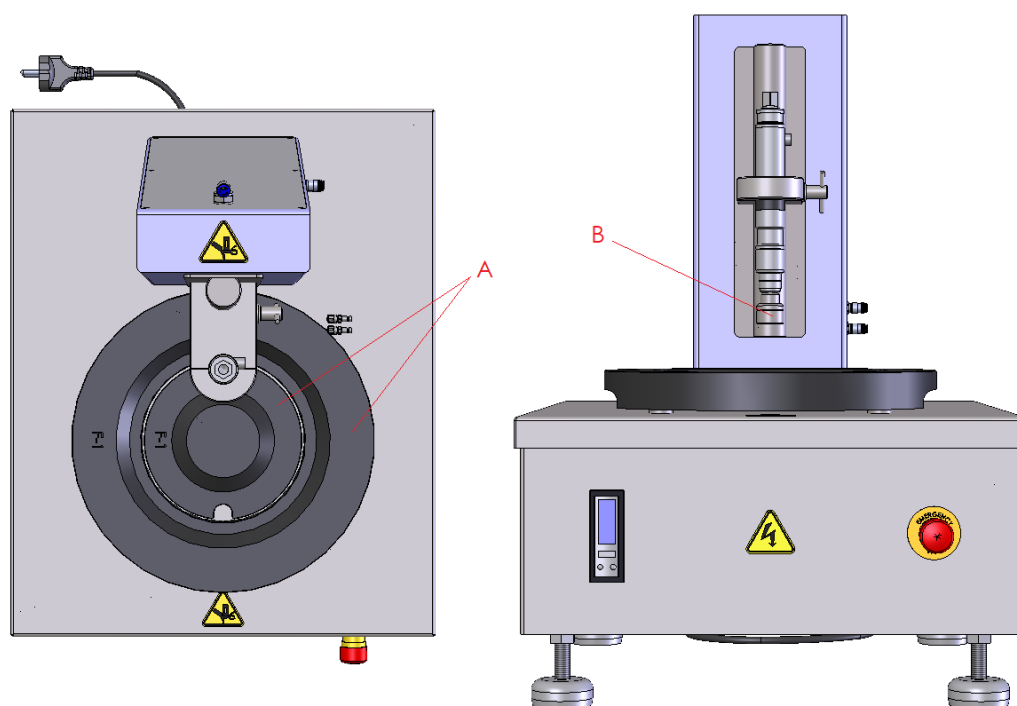


Figure: Top and front view

WARNING:

Always check that there are not vials in the machine before starting it again after the change of format.

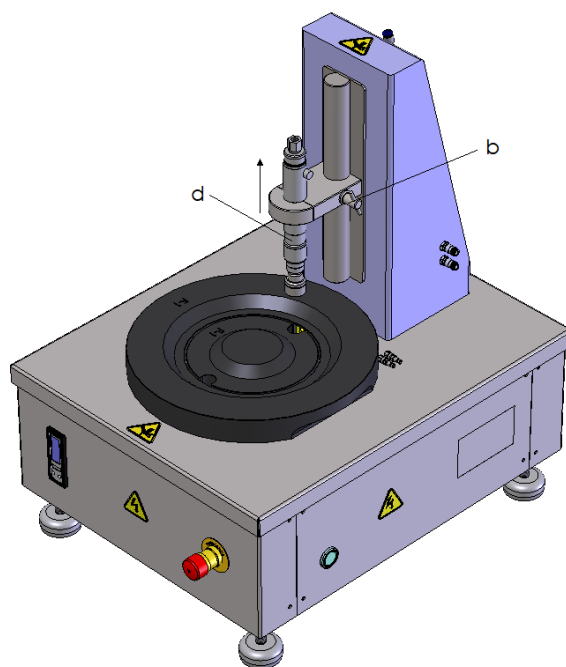
Some images in this point must be considered as a guide.

8.1.1. (A) Dividing plate and outer guide

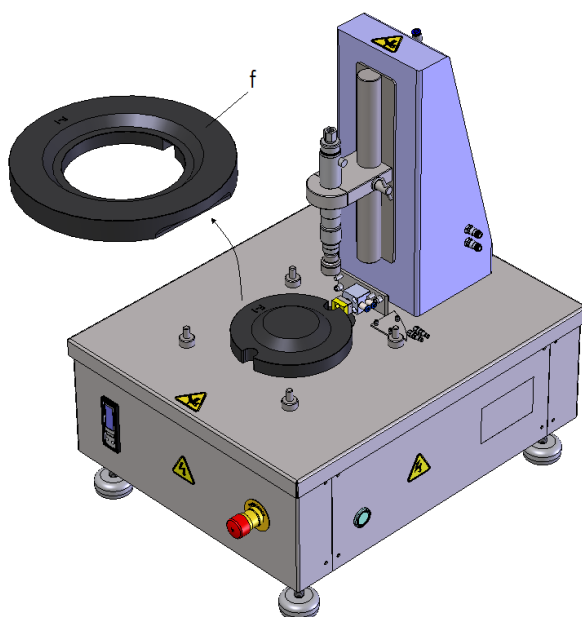
The change of format involves the replacement of the dividing plate and the outer guide by the ones corresponding to the new format. It may be also necessary to adjust the height of the closing head.

The steps to follow to remove the diving plate and the outer guide are:

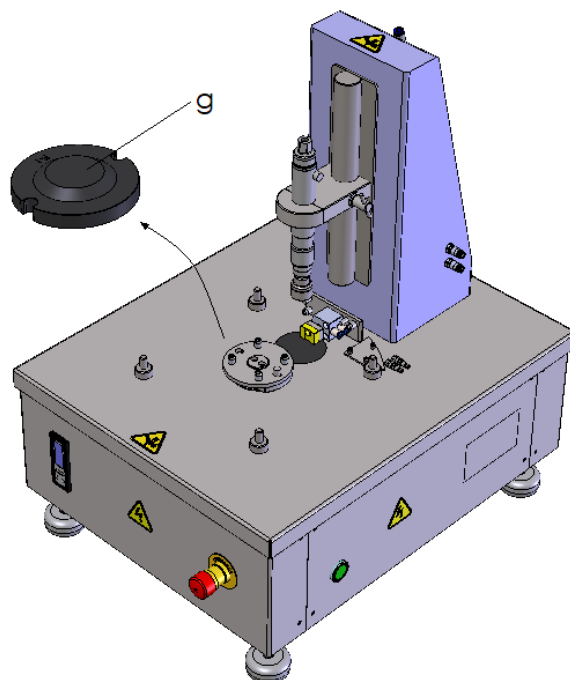
- 1- Switch off the machine by pressing the Emergency pushbutton.
- 2- Remove any container from the machine.
- 3- Loosen the closing head handle **(b)**, while holding the closing head **(d)** with left hand. Raise the closing head **(d)** to the top and tighten the closing head handle **(b)** again.



- 4- Grasp with both hands the outer guide **(f)** and pull it up firmly.



- 5- Grasp with both hands the division plate **(g)** and pull it out from its positioning pins.



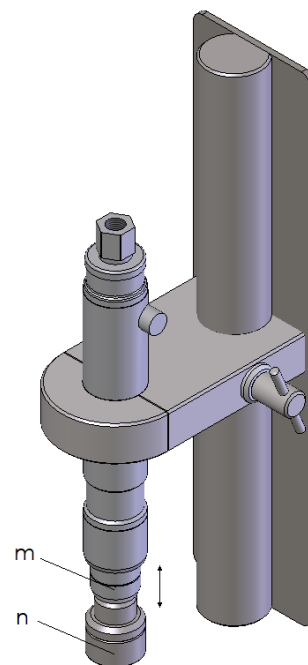
- 6- Insert the new dividing plate and the new outer guide in reverse mode.
7- Loosen the closing head handle **(b)**, position the closing head **(d)** to the height corresponding to the new format and tighten the closing head handle **(b)** again.

8.1.2. (B) Cone cap

The change of format involves the replacement of the cone cap.

The steps to follow to remove the cone cap are:

- 1- Switch off the machine by pressing the Emergency pushbutton.
- 2- Remove any container from the machine.
- 3- Take the gear casing **(m)** down.
- 4- Pull the cone cap **(n)** out.
- 5- To insert the new cone cap is necessary to take the gear casing **(m)** down again.



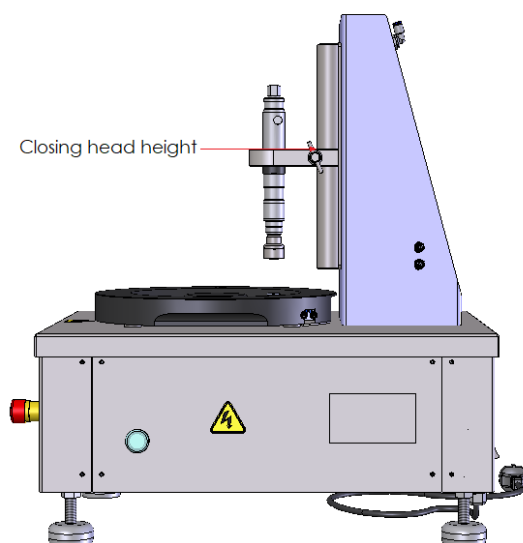
8.2. Adjustments

8.2.1. Closing head height

Depending on the format to produce, the height of the closing head must be adjusted according to the following table:

FORMAT	CLOSING HEAD HEIGHT (mm)*
F-1	107
F-2	139
F-3	121
F-4	137
F-5	150
F-6	110
F-7	138

**Read since the higher side of the support:*



9. Cares and Maintenance

It is recommended to maintain all mechanisms, frame and outer coatings of the machine in perfect clean conditions. This benefits the conservation of polished or sanded surfaces and the lifetime of the machine.

This machine requires a reduced time for the maintenance and cleaning. Please pay attention to it.

These indications are given for normal operation conditions. For a continuous or intensive use, or in a dusty environment increase the suggested frequencies.

A careful maintenance allows to reduce to a minimum no-production times, thus accomplishing a better performance.

9.1. Maintenance Operations

The maintenance operations to be carried out by the customer are these:

Group N°	Description	Check (*)		
		1	3	6
1- Driving Group				
Dividing plate	Centring	x		
2- Closing group				
	Screw Close Unit	x		
3- Sensors				
	Sensors (Check operation)			x

(*) Frequency in months.

9.2. Maintenance of Pneumatic Screw Unit

The pneumatic screw unit requires periodic lubrication:

Supply light turbine oil correctly through the air inlet or in the online lubricator, always before and at the end of operation. For instance, Mobil #32, Shell #32 oil and/or equivalents.

For gears and bearings: Supply high quality grease (for instance Shell Alvania #2, Mobilplex #2 and/or equivalents) once each three months or when the machine is disassembled.

9.3. Daily Cleaning of Working Areas

The cleaning of working areas should be performed daily, with power switched off.

Make the cleaning of:

- Containers inlet and out dividing plate.
- Fixed and moveable guards.

Carry out the cleaning with degreasing products and wipe with a dry rag. To clean transparent guards (if it applies), use anti-static products. The use of solvents, petrol, alcohol, etc. can damage them.

10. After Sales Service

If a failure occurs and no solution is found in this User Manual, please get in touch with our After Sales service.

Whenever a query about the machine is necessary:

- About operation
- To order spare parts

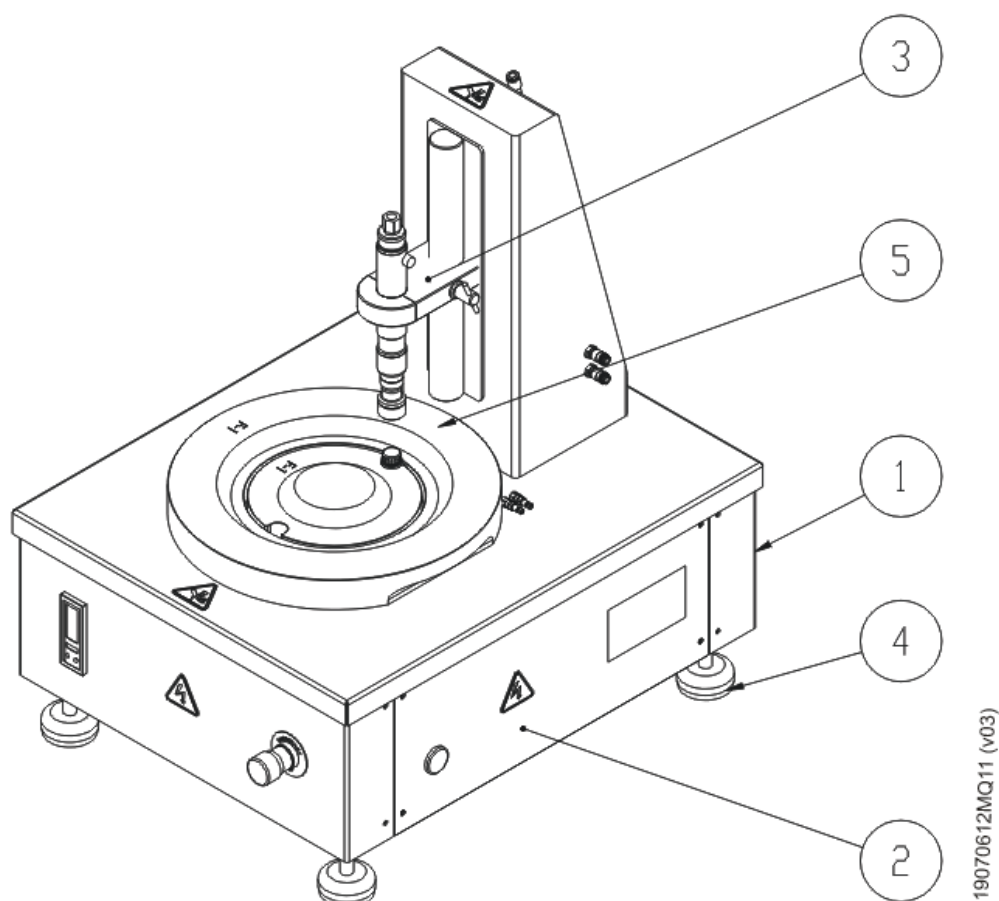
PLEASE ALWAYS REFER THE MODEL AND MANUFACTURING NUMBER

This information is essential and allows the After Sales Service to prepare the spare parts conveniently, so the machine could be repaired if necessary in the first visit of the service team.

Always head for our factory After Sales Service, or to an authorised workshop.
Only the **DARA** original spare parts fulfil the necessary requirements !

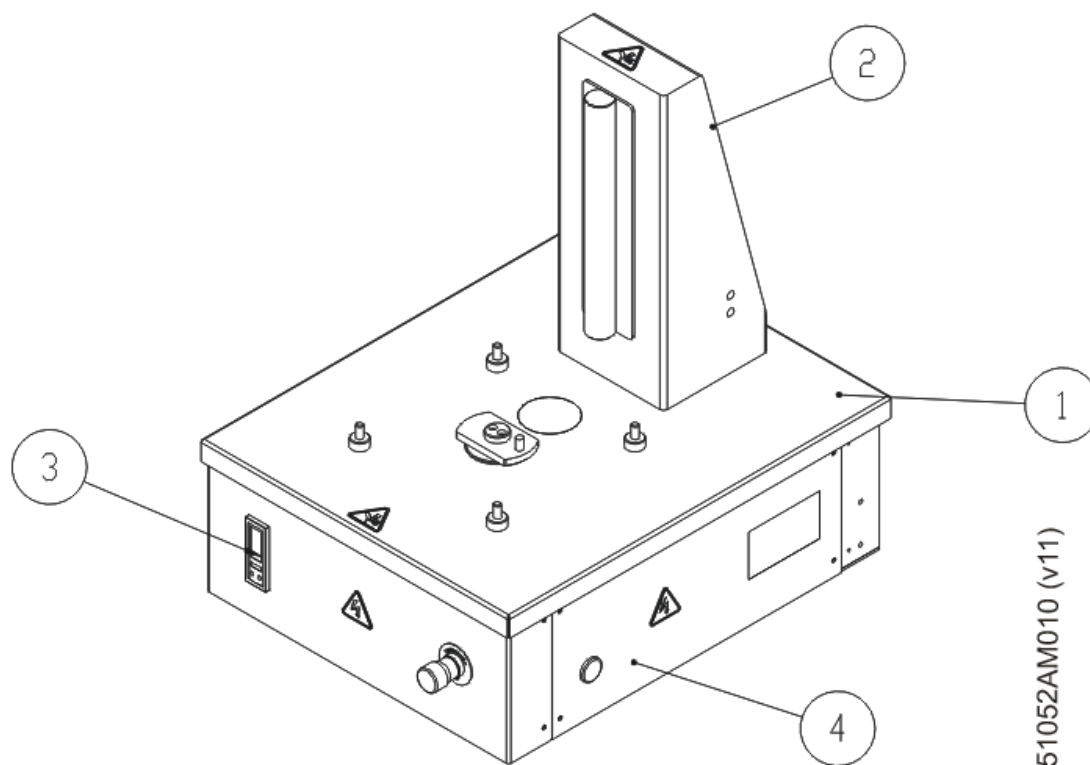
11. Spare Parts

11.1. SX-140 MACHINE GROUP (19070612MQ11-V3)



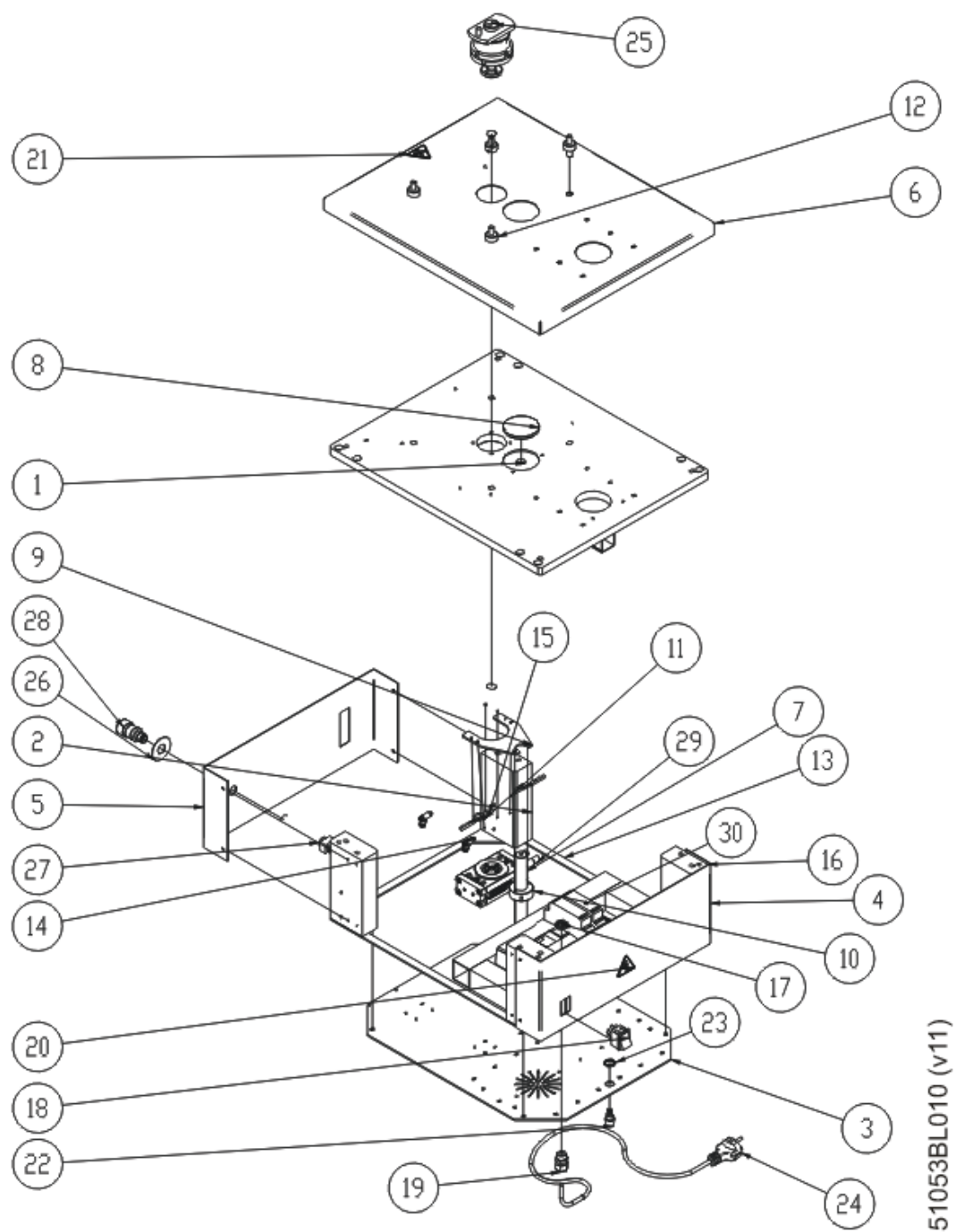
SX-140 MACHINE GROUP			
Pos.	Description	Qty.	Ref. N°
1	SX-140 BASE MACHINE GROUP	1	51052AM010
2	BIMANUAL START PUSH BUTTON	1	51053AW000
3	PNEUMATIC THREAD	1	51037AA000
4	TABLE FEET	1	51057AB000
5	F-1 FORMAT GROUP	1	19070612FM11

11.1.1. SX-140 MACHINE BASE GROUP (51052AM010-V11)



SX-140 MACHINE BASE GROUP			
Pos.	Description	Qty.	Ref. N°
1	SX-140 FRAME GROUP	1	51053BL010
2	SX-140 CLOSED TURRET	1	51002AK010
3	SX-140 PNEUMATIC GROUP	1	51054AA000-REV3
4	BIMANUAL START PUSH BUTTON	1	51053BP010

11.1.1.1 SX-140 FRAME GROUP (51053BL010-V11)

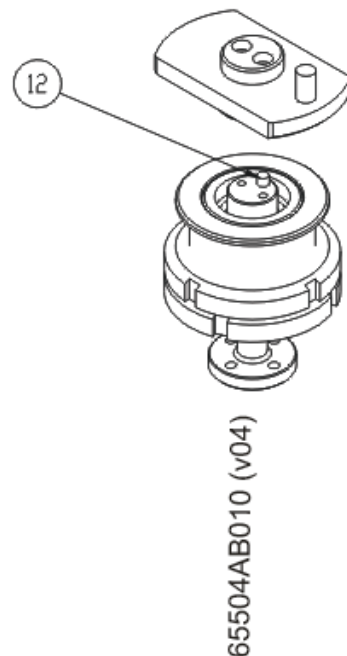
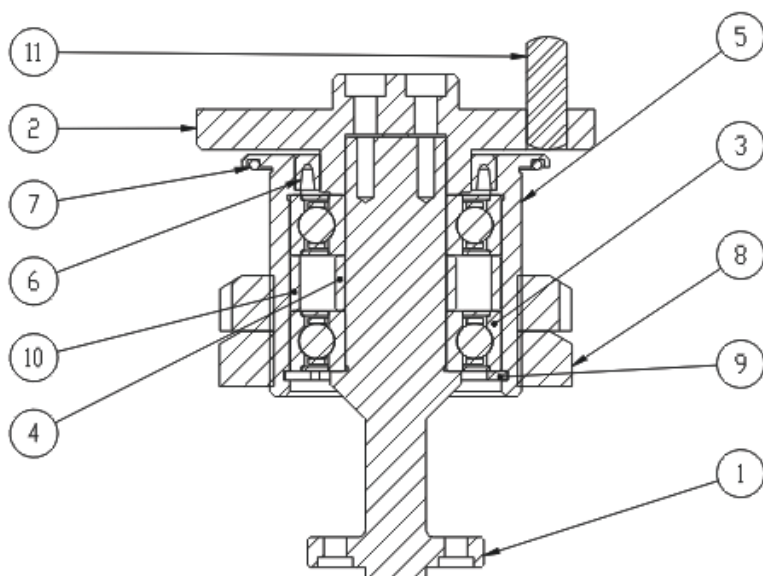


51053BL010 (v11)

SX-140 FRAME GROUP			
Pos.	Description	Qty.	Ref. N°
1	SX-140 UPPER PLATE	1	50264GH002
2	SX-140 FRAME GROUP RIB	2	50779CR002
3	SX-60 FRAME GROUP LOWER PLATE	1	50653AE002
4	SX-140 BACK PLATE	1	50640AV002
5	SX-140 FRONTAL PLATE	1	50640AW002
6	SX-140 UPPER FRAME GROUP PLATE (BIG FORMATS)	1	50636AD002
7	FRAME GROUP SUPPORT	1	50820AA072
8*	DOLLY	1	55008AC122
9	TORSION ARM	1	50652AD012
10	NON-SPIN BUSHING	1	55466AA002
11	CABLE	2	800204196
12	EXTERNAL SHAFT SUPPORT	4	55438AJ002
13	SX-140 FRAME GROUP LOWER MARK	1	50654AB002
14	THROTTLE	2	730209019
15*	PROXIMITY SENSOR	2	800703002
16	SX-140 FRAME GROUP RIB	2	50779CS002
17	SHORT NUT	2	700204016
18	BLACK SWITCH	1	800119001
19	GLAND	1	800107005
20	LABEL, HAZARD, ELECTRIC SHOCK	2	800306018
21	LABEL, HAZARD, HAND CRUSH	1	800306021
22	CONNECTOR	1	800108003
23	NUT	1	800107092
24*	CABLE 2 m + DETECTOR	1	800206012
25	SX-140 STAR SUPPORT GROUP	1	65504AB010
26	EMERGENCY DISK	1	800119013
27*	2 CONTACT EMERGENCY BUTTON CAMERA	1	800119005
28*	EMERGENCY BUTTON	1	800119004
29*	TURN DRIVE	1	730501013
30*	EMERGENCY RELAY SECURITY	1	800101036

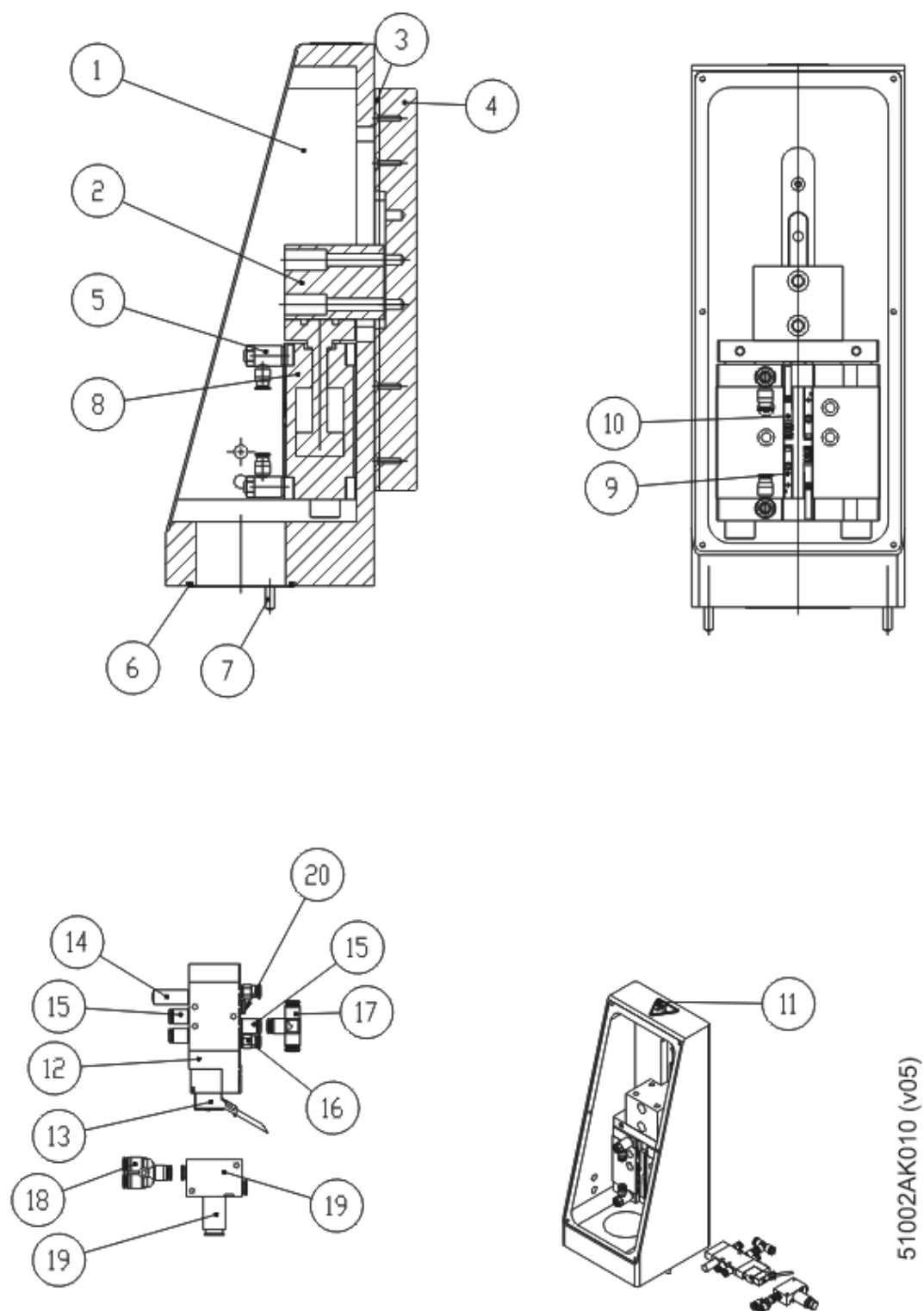
*RECOMMENDED SPARE PART

11.1.1.1.1 SX-140 STAR SUPPORT GROUP (65504AB010-V4)



SX-140 STAR SUPPORT GROUP			
Pos.	Description	Qty.	Ref. N°
1	SX-140 STAR SHAFT	1	55396AP002
2	STAR DRIVE SUPPORT	1	55462AT002
3	BEARING	2	720101019
4	SPACER	1	50387MA612
5	STAR SHAFT BEARING SUPPORT	1	55410AG002
6	STOPPER	1	750103069
7	VITON O-RING	1	750101471
8	NUT	2	700207031
9	ELASTIC RING	1	700502005
10	SPACER	1	50387MA602
11	PIN	1	700401033
12	PIN	1	700401071

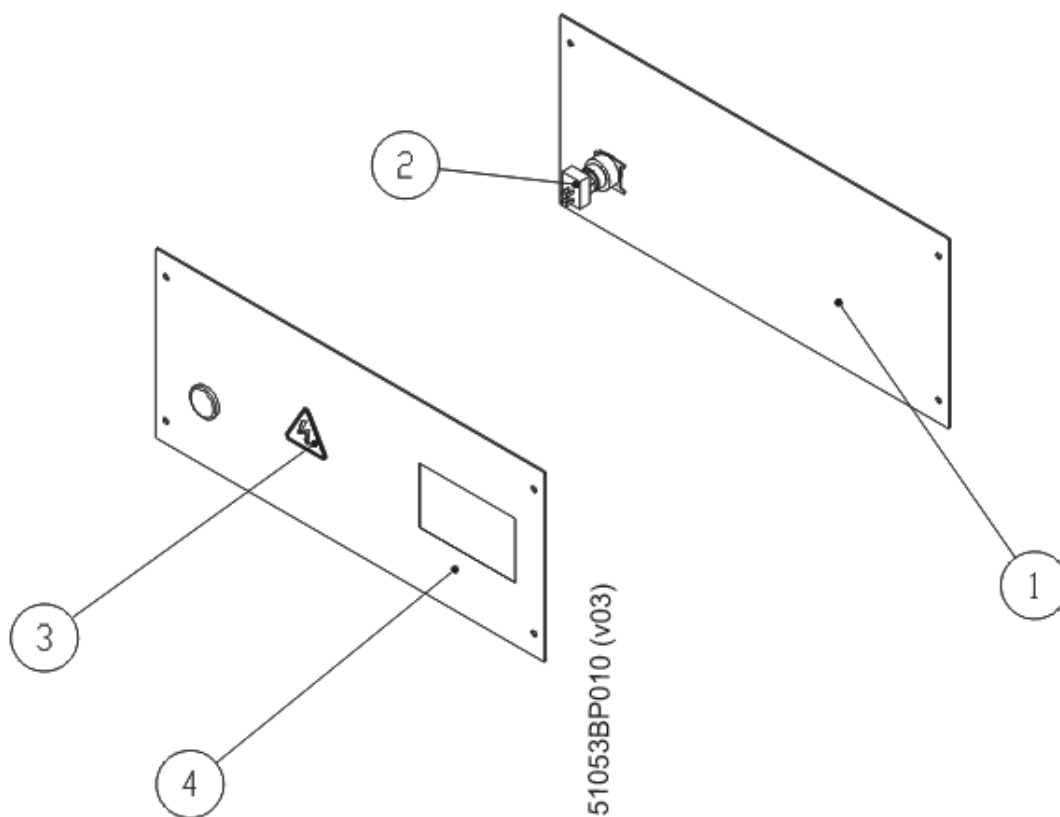
11.1.1.2 SX-140 CLOSING COLUMN (51002AK010-V5)



SX-140 CLOSING COLUMN			
Pos.	Description	Qty.	Ref. N°
1	SUPPORT COLUMN	1	55399AE002
2	FLANGE FIXER	1	999.1648B
3	COLUMN FRONT CLOSING	1	999.1649A
4	THREAD SHAFT	1	999.1542D
5	THROTTLE	2	730209017
6	VITON O-RING	1	750101036
7	PIN	2	700401018
8*	LINEAR ACTUATOR	1	730301011
9*	PROXIMITY SENSOR	2	800703002
10	STRAIGHT FEMALE CONNECTOR	2	800204005
11	LABEL, HAZARD, HAND CRUSH	1	800306021
12*	ELECTROVALVE	1	730206034
13	CABLE	1	800204007
14	SILENCER	1	730905014
15	PLUG	3	730901317
16	PLUG	2	730901076
17	T PLUG	1	730907026
18	Y PLUG	1	730907020
19	FLOW CONROLLER	1	730103008
20	BLIND CAP	1	730908010

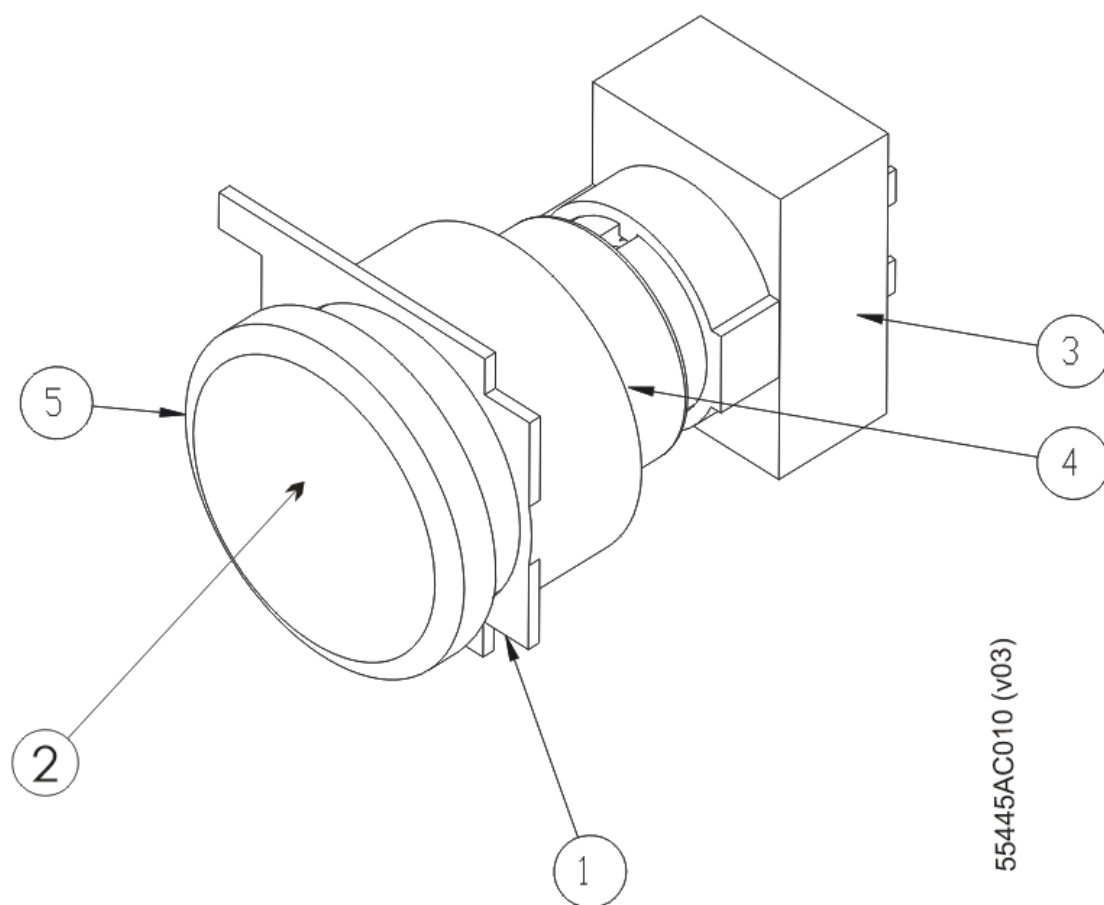
*RECOMMENDED SPARE PART

11.1.1.3 BIMANUAL PUSHER BUTTON GROUP (51053BP010-V3)



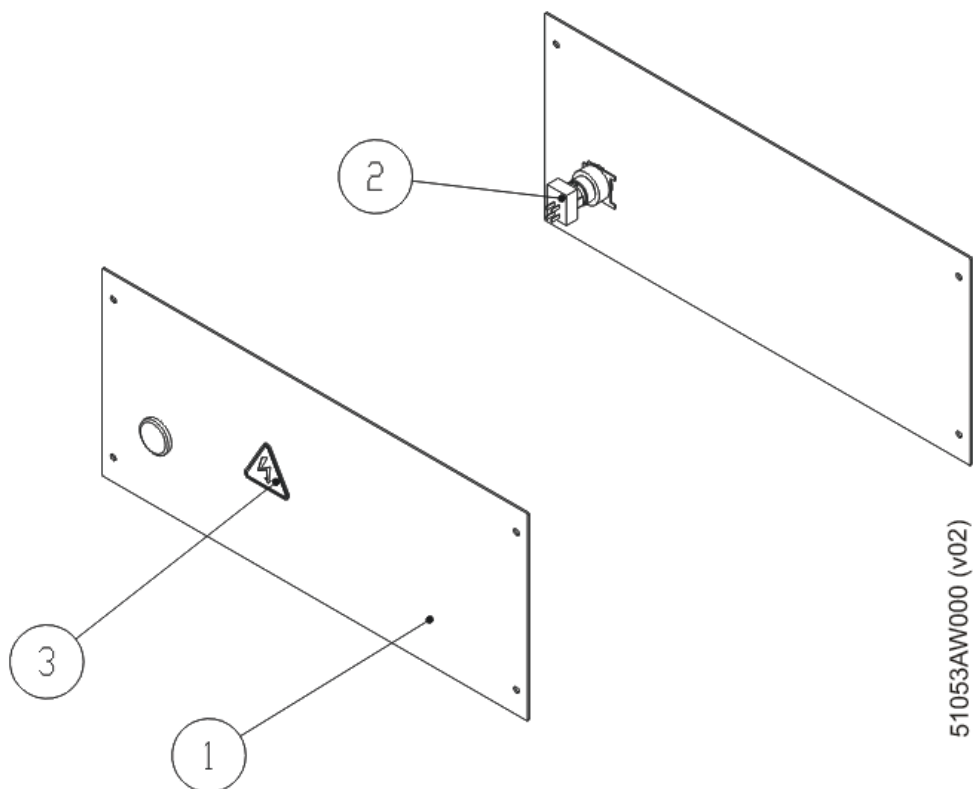
BIMANUAL PUSHER BUTTON GROUP			
Pos.	Description	Qty.	Ref. N°
1	SIDE COVER	1	50644AR002
2	GREEN START BUTTON GROUP	2	55445AC010
3	"DANGER" WARNING TRIANGLE	2	800306018
4	SIDE COVER	1	50644BB002

11.1.1.3.1 GREEN START BUTTON GROUP (55445AC010-V3)



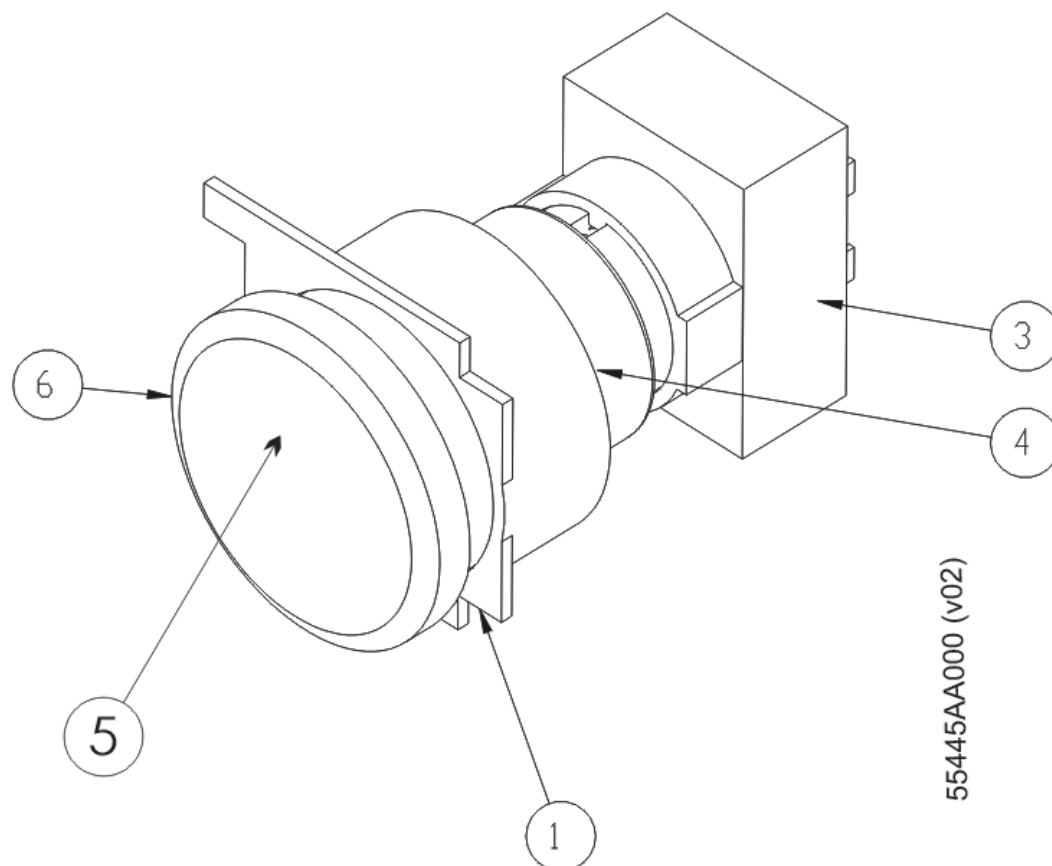
GREEN START BUTTON GROUP			
Pos.	Description	Qty.	Ref. N°
1	PLASTIC MODULE + PLASTIC FITTING FOR PUSH BUTTON	1	800119028
2	GREEN LUMINOUS CAP	1	800119035
3	2 POSITIONS SELECTOR CAMERA	1	800119015
4	LUMINOUS PUSH BUTTON BODY	1	800119034
5	PUSH BUTTON PLASTIC MEMBRANE	1	800119033

11.1.2. BIMANUAL PUSHER BUTTON GROUP (51053AW000-V2)



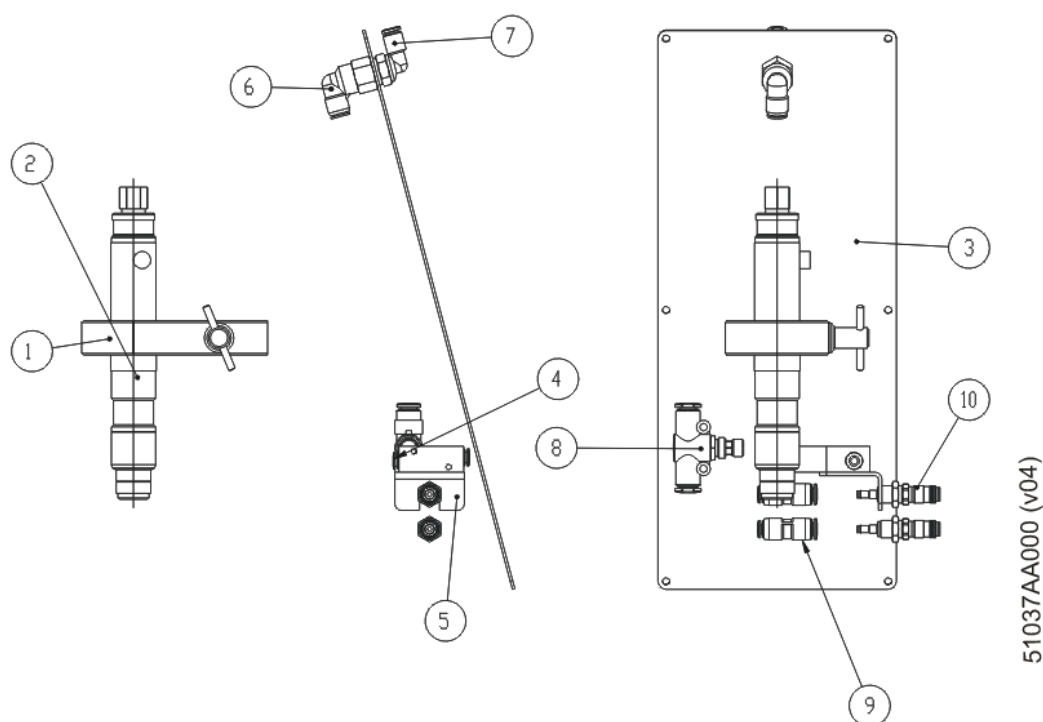
BIMANUAL PUSHER BUTTON GROUP			
Pos.	Description	Qty.	Ref. N°
1	SIDE COVER	2	50644AR002
2	GREEN START BUTTON GROUP	2	55445AA000
3	"DANGER" WARNING TRIANGLE	2	800306018

11.1.2.1 GREEN START BUTTON GROUP (55445AA000-V2)



GREEN START BUTTON GROUP			
Pos.	Description	Qty.	Ref. N°
1	PLASTIC MODULE + PLASTIC FITTING FOR PUSH BUTTON	1	800119028
2	GREEN LUMINOUS CAP	1	800119035
3	2 POSITIONS SELECTOR CAMERA	1	800119015
4	LUMINOUS PUSH BUTTON BODY	1	800119034
5	GREEN LUMINOUS LED PUSHER	1	800119053
6	PLASTIC MEMBRANE	1	800119033

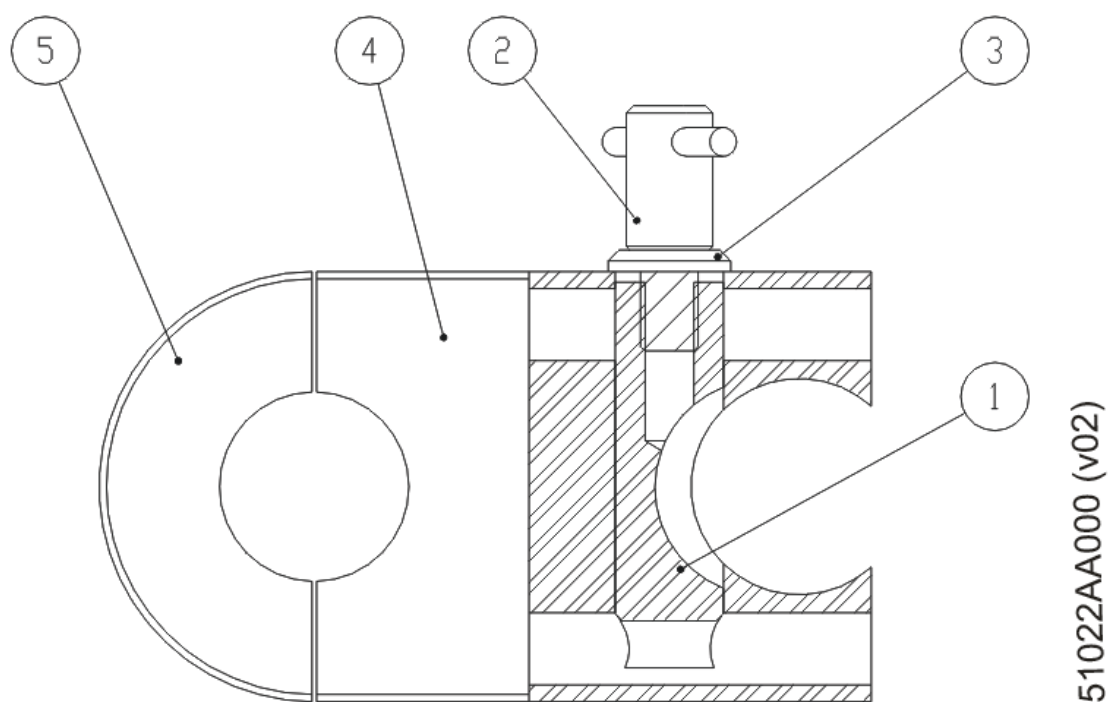
11.1.3. PNEUMATIC THREADED GROUP (51037AA000-V4)



PNEUMATIC THREADED GROUP			
Pos.	Description	Qty.	Ref. N°
1	PNEUMATIC SCREWDRIVER SUPPORT GROUP	1	51022AA000
2*	PNEUMATIC SCREWDRIVER	1	710104002
3	COLUMN BACK PLATE	1	50378AA002
4	FLOW CONTROLLER	1	730103008
5	FIX MARK	1	999.3400A
6	ELBOW PLUG	1	730901035
7	ELBOW PLUG	1	730901079
8	FLOW CONTROLLER	1	730209026
9	QUICK START PLUG	2	730901137
10	FEMALE QUICK START PLUG	2	730907041

*RECOMMENDED SPARE PART

11.1.3.1 PNEUMATIC SCREWING GROUP (51022AA000-V2)



PNEUMATIC SCREWING GROUP			
Pos.	Description	Qty.	Ref. N°
1	FLANGE	1	50443AA052
2	KNOB	1	50218AB012
3	FLAT WASHER	1	50190AA032
4	SCREWDRIVER SUPPORT FLANGE	1	50982AA012
5	SCREWDRIVER SUPPORT FLANGE	1	50983AA012

11.1.4. TABLE FOOT GROUP (51057AB000-V2)

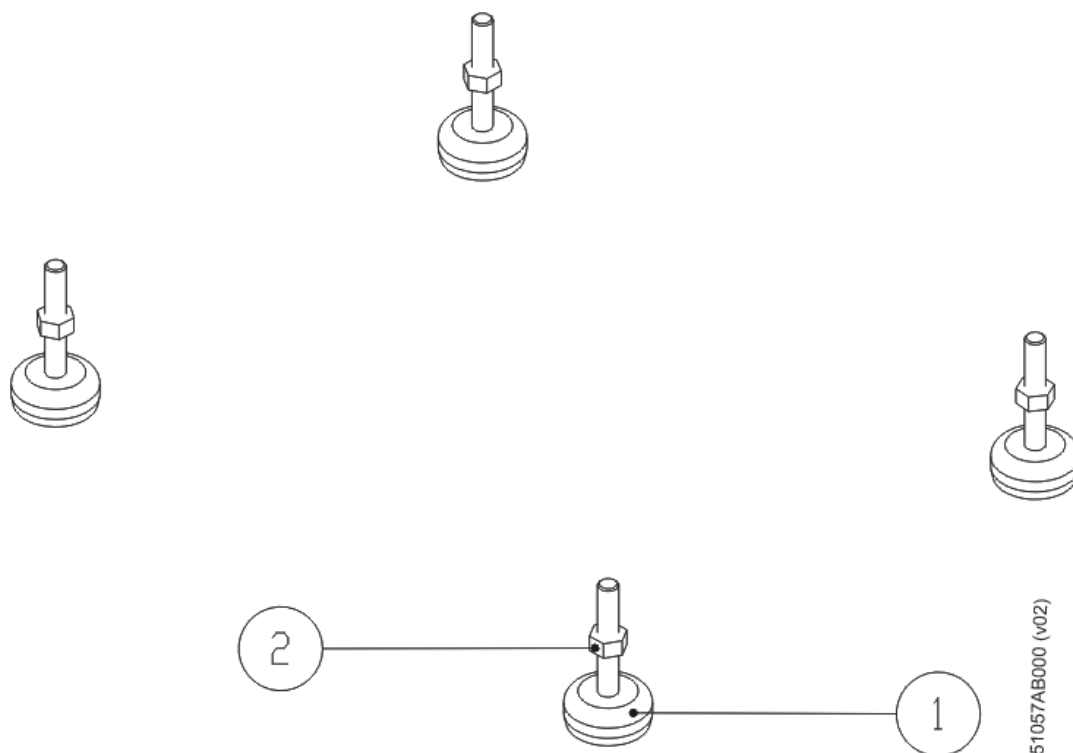
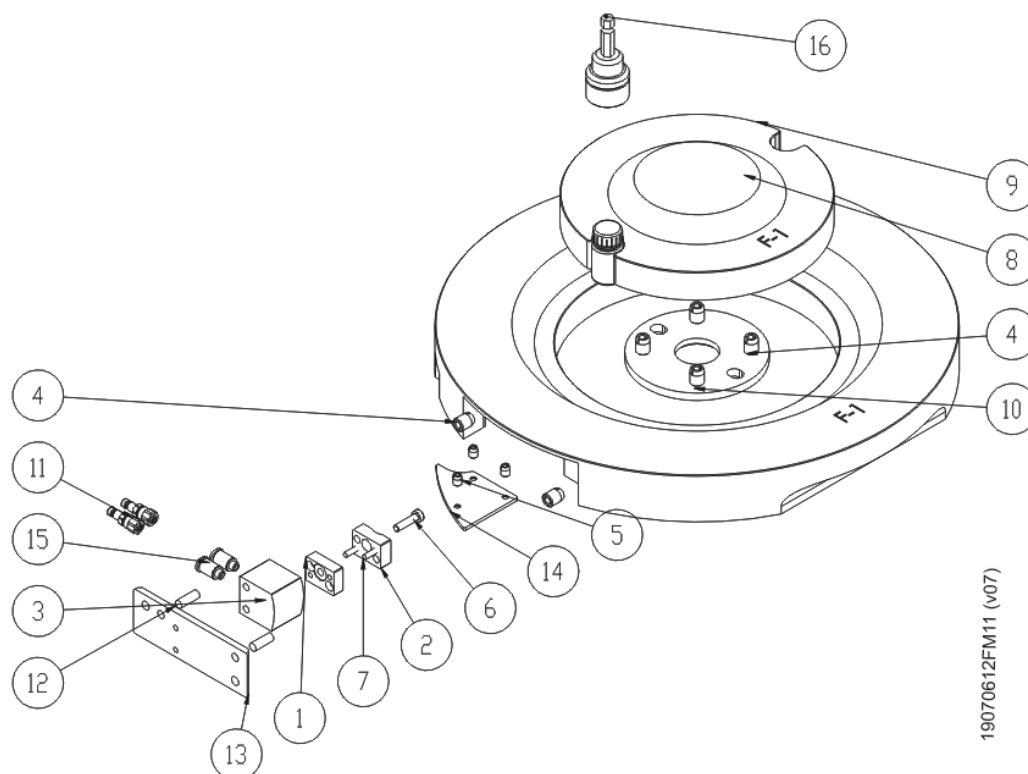


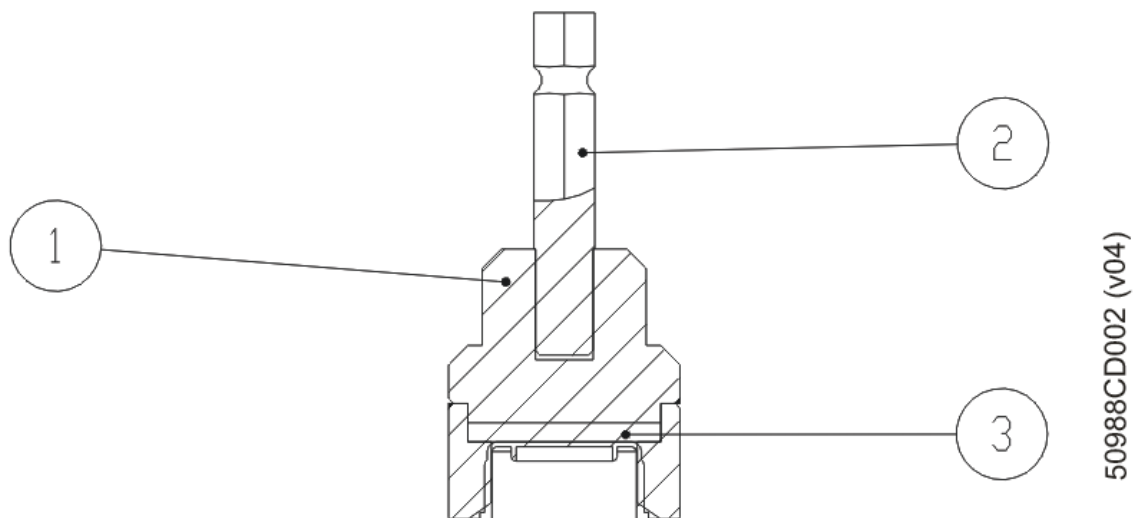
TABLE FOOT GROUP			
Pos.	Description	Qty.	Ref. N°
1	FOOT	4	740301002
2	NUT	4	700201011

11.1.5. F-1 FORMAT GROUP (19070612FM11-V7)


F-1 FORMAT GROUP			
Pos.	Description	Qty.	Ref. N°
1	BRAKE FIXER	1	50136BJ062
2*	BRAKE SX-140	1	55687EB082
3*	CYLINDER	1	730303053
4	THREADED INSERT	6	700110002
5	THREADED INSERT	5	700110005
6	SCREW	1	700103031
7	PIN	2	700401038
8	EXTERNAL GUIDE F-1	1	57623XY002
9	INSIDE GUIDE F-1	1	50333WL002
10	STAR SPIN SUPPORT	1	55462AM002
11	MALE QUICK START PLUG	2	730907038
12	PIN	2	700401071
13	PISTON SUPPORT CAP	1	55828DT002
14	PISTON SUPPORT CAP	1	55828DS002
15	QUICK START PLUG	2	730901046
16	F-1 CONE CAP GROUP	1	50988CD002

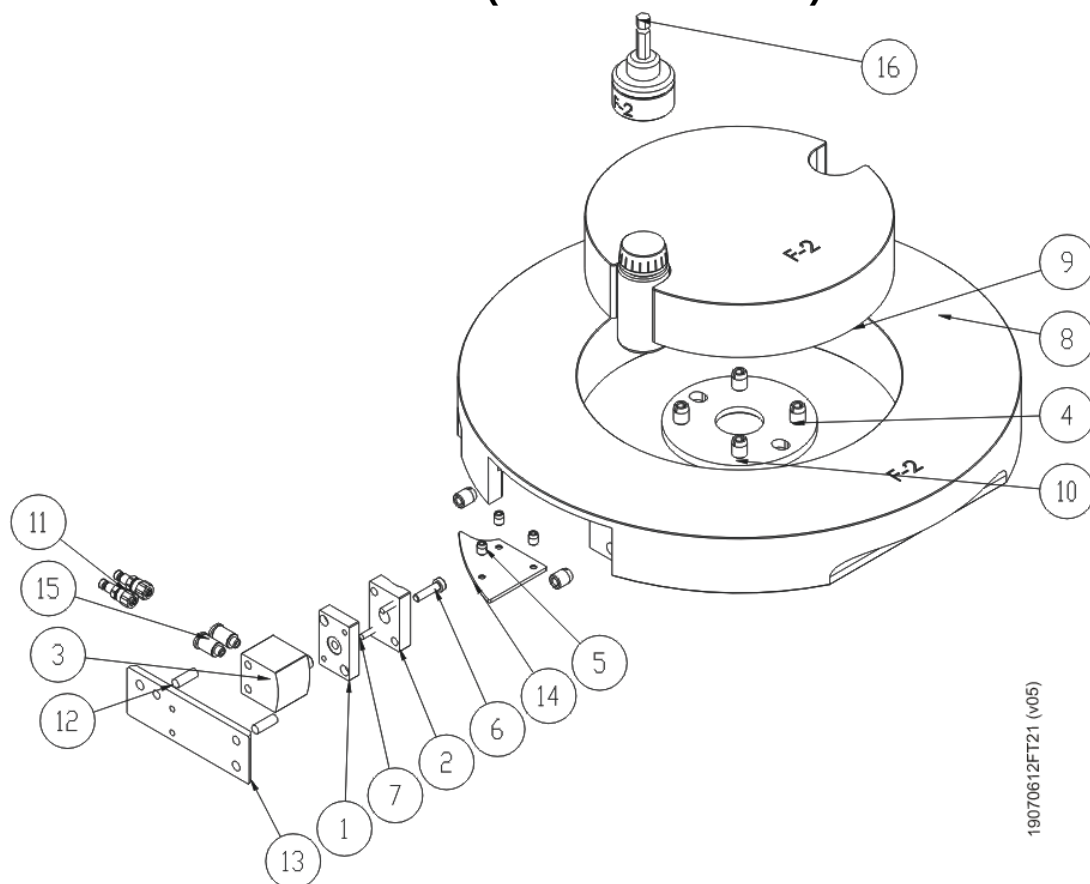
*RECOMMENDED SPARE PART

11.1.5.1 F-1 CONE CAP GROUP (50988CD002-V4)



F-1 CONE CAP GROUP			
Pos.	Description	Qty.	Ref. N°
1	F-1 MACHINE CAP CONE	1	50166GR002
2	CAP CONE SUPPORT SHAFT	1	50986AA003
3	SILICONE WASHER	1	56112AB102

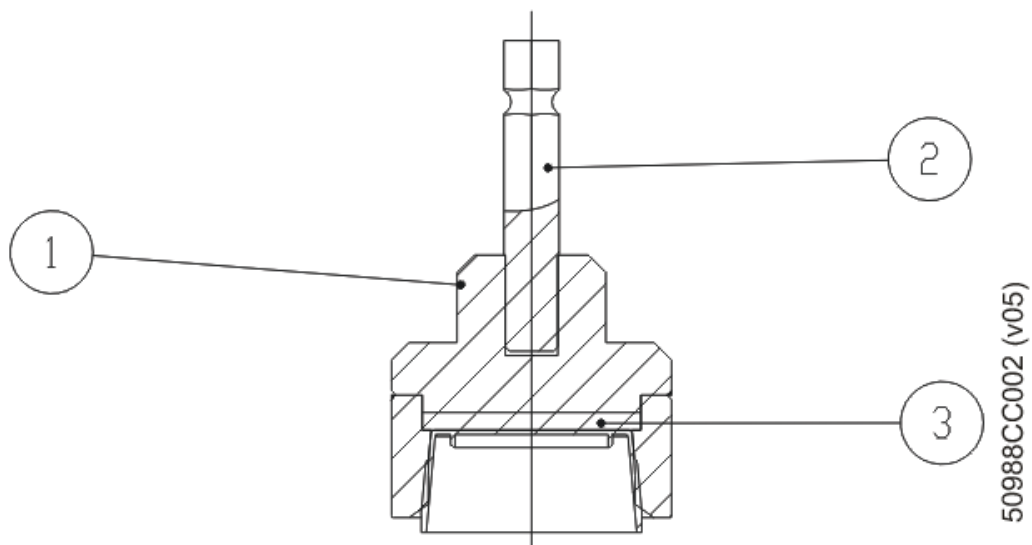
11.2. F-2 FORMAT GROUP (19070612FT21-V5)



F-2 FORMAT GROUP			
Pos.	Description	Qty.	Ref. N°
1	BRAKE FIXER	1	50136BJ042
2*	BRAKE SX-140	1	55687EB092
3*	CYLINDER	1	730303053
4	THREADED INSERT	6	700110002
5	THREADED INSERT	5	700110005
6	SCREW	1	700103031
7	PIN	2	700401038
8	EXTERNAL GUIDE F-2	1	57623XX002
9	INSIDE GUIDE F-2	1	50333WK002
10	STAR SPIN SUPPORT	1	55462AM002
11	MALE QUICK START PLUG	2	730907038
12	PIN	2	700401071
13	PISTON SUPPORT CAP	1	55828DT002
14	PISTON SUPPORT CAP	1	55828DS002
15	QUICK START PLUG	2	730901046
16	F-2 CONE CAP GROUP	1	50988CC002

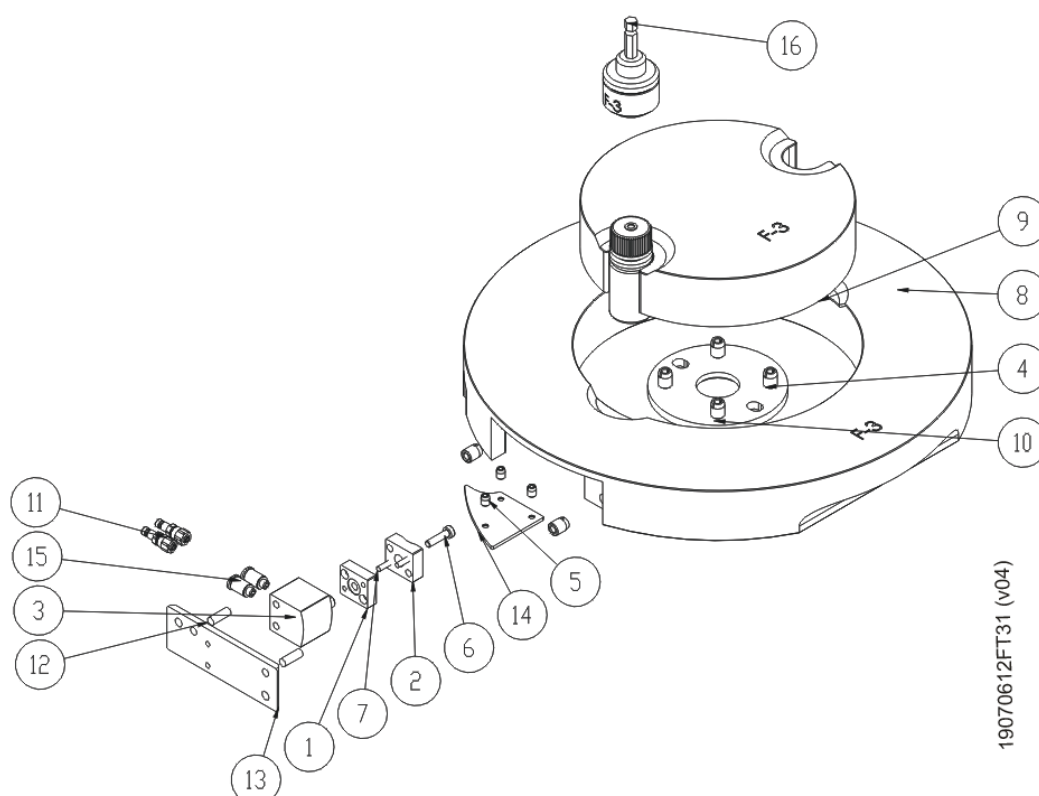
*RECOMMENDED SPARE PART

11.2.1. F-2 CONE CAP GROUP (50988CC002-V5)



F-2 CONE CAP GROUP			
Pos.	Description	Qty.	Ref. N°
1	F-2 MACHINE CAP CONE	1	50166GQ002
2	CAP CONE SUPPORT SHAFT	1	50986AA003
3	SILICONE WASHER	1	56112AB092

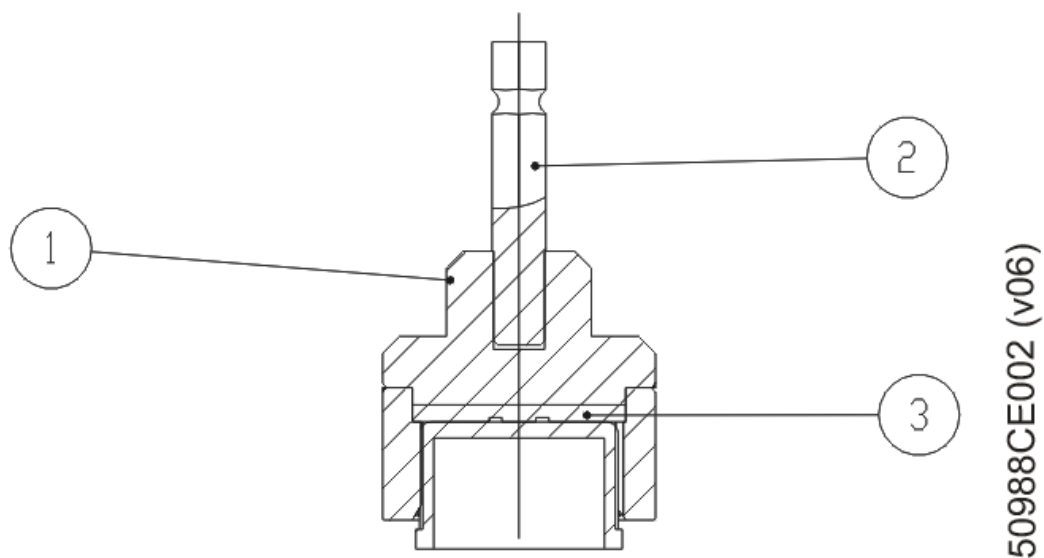
11.3. F-3 FORMAT GROUP (19070612FT31-V4)



F-3 FORMAT GROUP			
Pos.	Description	Qty.	Ref. N°
1	BRAKE FIXER	1	50136BJJ072
2*	BRAKE SX-140	1	55687EB102
3*	CYLINDER	1	730303053
4	THREADED INSERT	6	700110002
5	THREADED INSERT	5	700110005
6	SCREW	1	700103031
7	PIN	2	700401038
8	EXTERNAL GUIDE F-3	1	57623XZ002
9	INSIDE GUIDE F-3	1	50333WM002
10	STAR SPIN SUPPORT	1	55462AM002
11	MALE QUICK START PLUG	2	730907038
12	PIN	2	700401071
13	PISTON SUPPORT CAP	1	55828DT002
14	PISTON SUPPORT CAP	1	55828DS002
15	QUICK START PLUG	2	730901046
16	F-3 CONE CAP GROUP	1	50988CE002

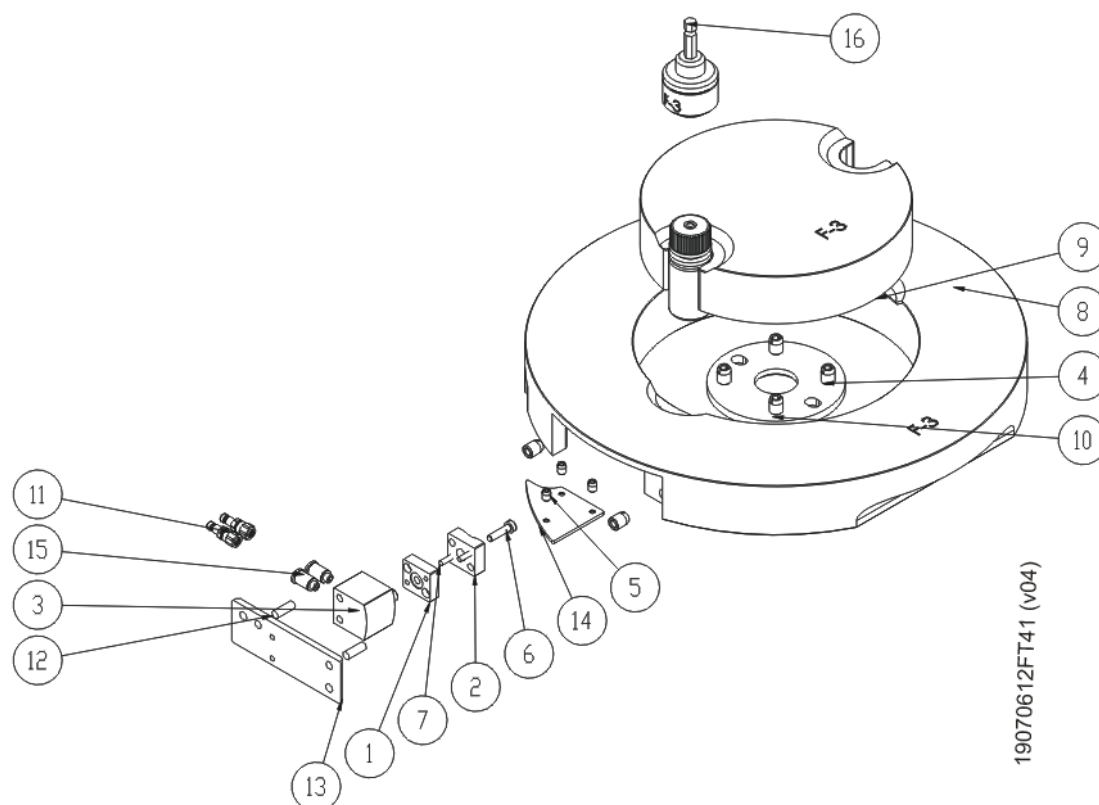
*RECOMMENDED SPARE PART

11.3.1. F-3 CONE CAP GROUP (50988CE002-V6)



F-3 CONE CAP GROUP			
Pos.	Description	Qty.	Ref. N°
1	F-3 MACHINE CAP CONE	1	50166GS002
2	CAP CONE SUPPORT SHAFT	1	50986AA003
3	SILICONE WASHER	1	56112AB092

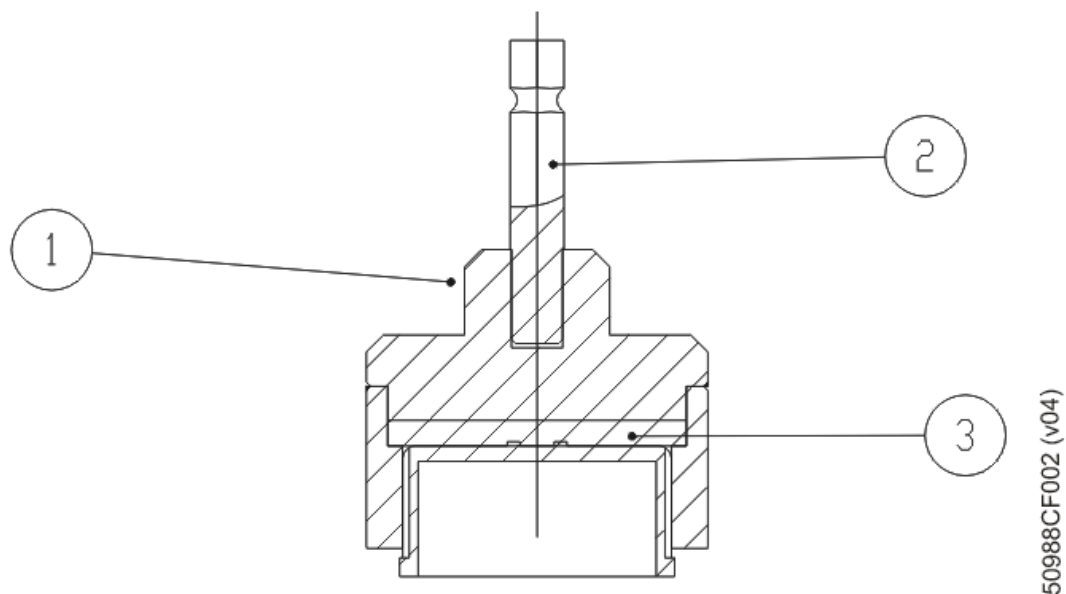
11.4. F-4 FORMAT GROUP (19070612FT41-V4)



F-4 FORMAT GROUP			
Pos.	Description	Qty.	Ref. N°
1	BRAKE FIXER	1	50136BJJ072
2*	BRAKE SX-140	1	55687EB102
3*	CYLINDER	1	730303053
4	THREADED INSERT	6	700110002
5	THREADED INSERT	5	700110005
6	SCREW	1	700103031
7	PIN	2	700401038
8	EXTERNAL GUIDE F-4	1	57623XZ002
9	INSIDE GUIDE F-4	1	50333WM002
10	STAR SPIN SUPPORT	1	55462AM002
11	MALE QUICK START PLUG	2	730907038
12	PIN	2	700401071
13	PISTON SUPPORT CAP	1	55828DT002
14	PISTON SUPPORT CAP	1	55828DS002
15	QUICK START PLUG	2	730901046
16	F-4 CONE CAP GROUP	1	50988CE002

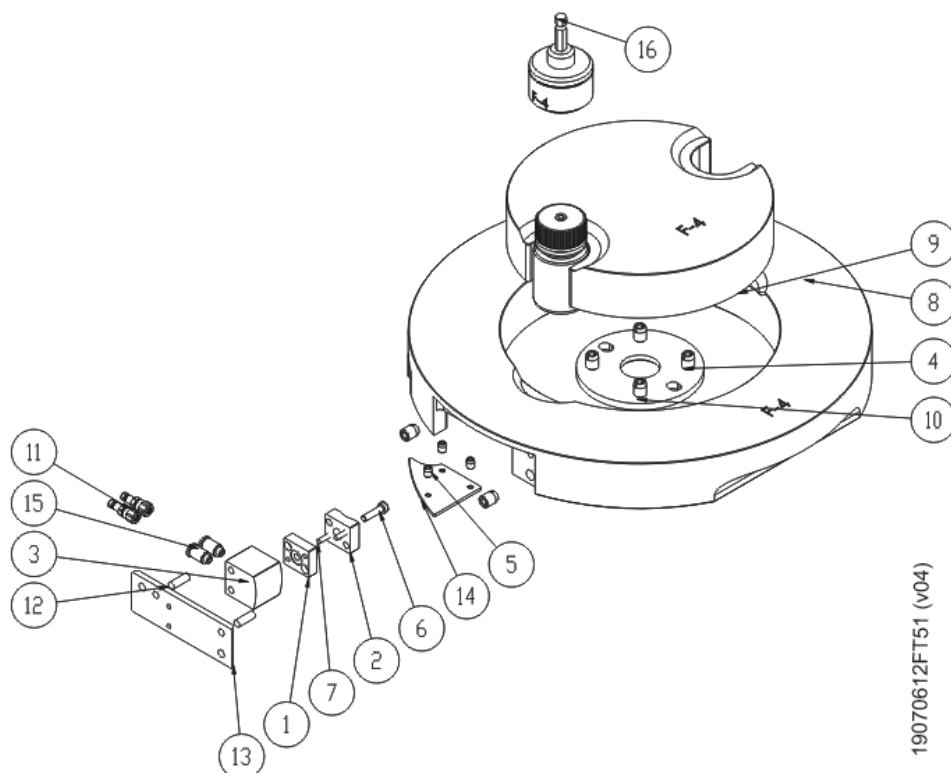
*RECOMMENDED SPARE PART

11.4.1. F-4 CONE CAP GROUP (50988CF002-V4)



F-4 CONE CAP GROUP			
Pos.	Description	Qty.	Ref. N°
1	F-4 MACHINE CAP CONE	1	50166GT002
2	CAP CONE SUPPORT SHAFT	1	50986AA003
3	SILICONE WASHER	1	56112AB112

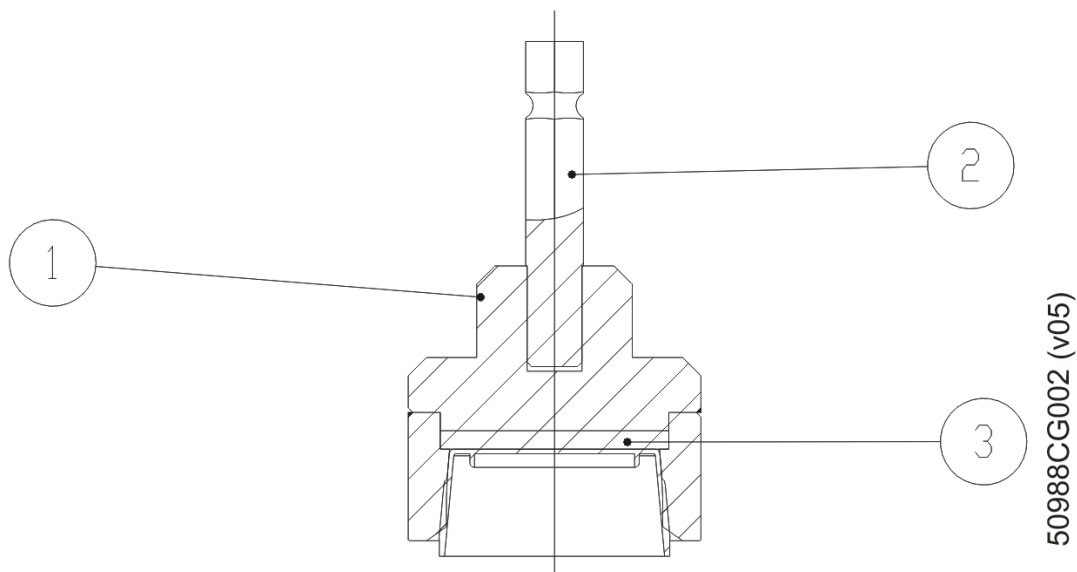
11.5. F-5 FORMAT GROUP (19070612FT51-V4)



F-5 FORMAT GROUP			
Pos.	Description	Qty.	Ref. N°
1	BRAKE FIXER	1	50136BJJ072
2*	BRAKE SX-140	1	55687EB112
3*	CYLINDER	1	730303053
4	THREADED INSERT	6	700110002
5	THREADED INSERT	5	700110005
6	SCREW	1	700103031
7	PIN	2	700401038
8	EXTERNAL GUIDE F-5	1	57623YA002
9	INSIDE GUIDE F-5	1	50333WN002
10	STAR SPIN SUPPORT	1	55462AM002
11	MALE QUICK START PLUG	2	730907038
12	PIN	2	700401071
13	PISTON SUPPORT CAP	1	55828DT002
14	PISTON SUPPORT CAP	1	55828DS002
15	QUICK START PLUG	2	730901046
16	F-5 CONE CAP GROUP	1	50988CF002

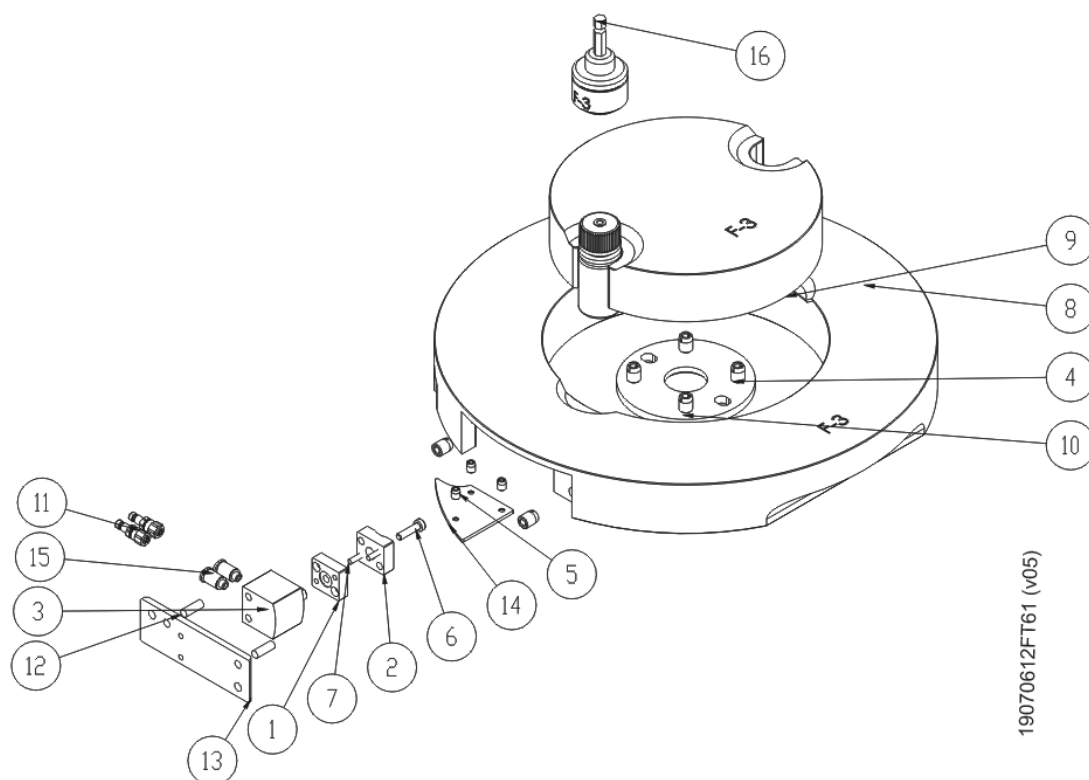
*RECOMMENDED SPARE PART

11.5.1. F-5 CONE CAP GROUP (50988CG002-V5)



F-5 CONE CAP GROUP			
Pos.	Description	Qty.	Ref. N°
1	F-5 MACHINE CAP CONE	1	50166GU002
2	CAP CONE SUPPORT SHAFT	1	50986AA003
3	SILICONE WASHER	1	56112AB112

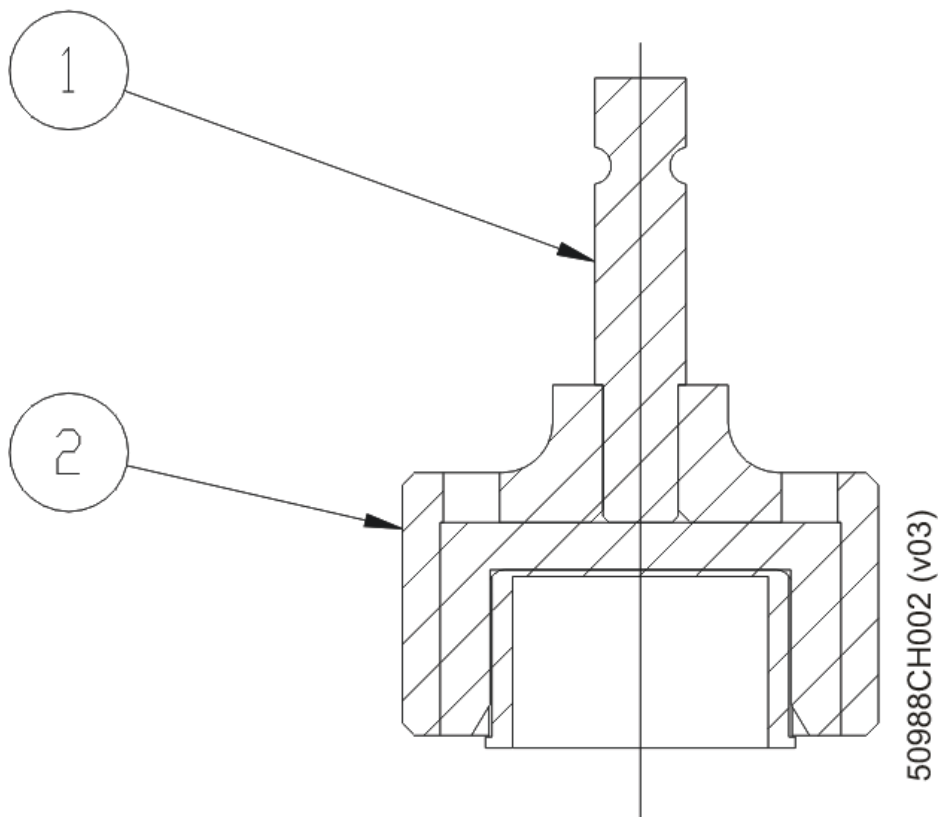
11.6. F-6 FORMAT GROUP (19070612FT61-V5)



F-6 FORMAT GROUP			
Pos.	Description	Qty.	Ref. N°
1	BRAKE FIXER	1	50136BJJ072
2*	BRAKE SX-140	1	55687EB102
3*	CYLINDER	1	730303053
4	THREADED INSERT	6	700110002
5	THREADED INSERT	5	700110005
6	SCREW	1	700103031
7	PIN	2	700401038
8	EXTERNAL GUIDE F-6	1	57623XZ002
9	INSIDE GUIDE F-6	1	50333WM002
10	STAR SPIN SUPPORT	1	55462AM002
11	MALE QUICK START PLUG	2	730907038
12	PIN	2	700401071
13	PISTON SUPPORT CAP	1	55828DT002
14	PISTON SUPPORT CAP	1	55828DS002
15	QUICK START PLUG	2	730901046
16	F-6/F-7 CONE CAP GROUP	1	50988CE002

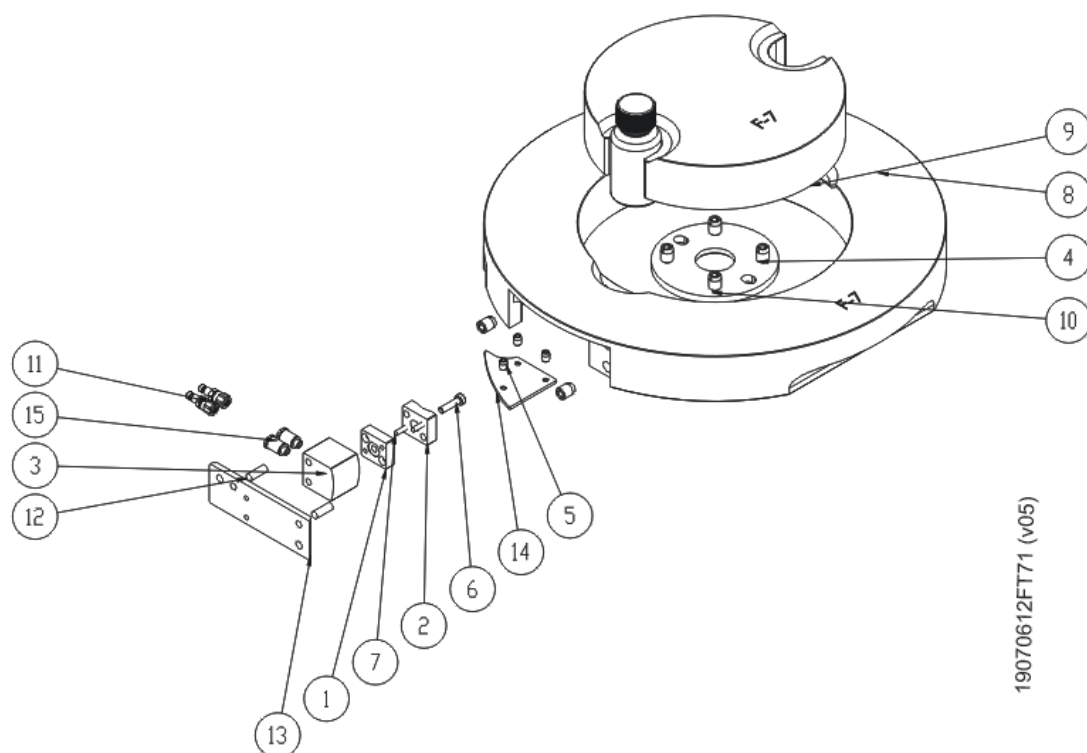
*RECOMMENDED SPARE PART

11.6.1. F-6/F-7 CONE CAP GROUP (50988CH002-V3)



F-6 CONE CAP GROUP			
Pos.	Description	Qty.	Ref. N°
1	CAP CONE SUPPORT SHAFT	1	50986AA003
2	CAP CONE F-6/F-7	1	50985BJ003

11.7. F-7 FORMAT GROUP (19070612FT71-V5)



F-7 FORMAT GROUP			
Pos.	Description	Qty.	Ref. N°
1	BRAKE FIXER	1	50136BJJ072
2*	BRAKE SX-140	1	55687EB112
3*	CYLINDER	1	730303053
4	THREADED INSERT	6	700110002
5	THREADED INSERT	5	700110005
6	SCREW	1	700103031
7	PIN	2	700401038
8	EXTERNAL GUIDE F-7	1	57623YD002
9	INSIDE GUIDE F-7	1	50333WR002
10	STAR SPIN SUPPORT	1	55462AM002
11	MALE QUICK START PLUG	2	730907038
12	PIN	2	700401071
13	PISTON SUPPORT CAP	1	55828DT002
14	PISTON SUPPORT CAP	1	55828DS002
15	QUICK START PLUG	2	730901046

*RECOMMENDED SPARE PART

12. WARRANTY



Maquinaria Industrial DARAS.L.
Pol. Ind. Coll de la Manya - Galileu Galilei 5-19
08403 - GRANOLLERS (Barcelona)- Spain

WARRANTY

Maquinaria Industrial Dara SL warranties this machine for a period of 1 Year or 1.900 hours, since the Start-Up of the machine is acknowledged to our technician by the Customer, and when the following conditions have been fulfilled:

The machine has been used according the instructions provided in the User Manual and its limitations, especially for the type and size of containers the machine has been designed for. The customer acknowledges that the User Manual has been read and understood

- In case of malfunction or failure during the Warranty period, this must be reported to Maquinaria Industrial Dara SL before 72 hours since it appears.
- Any part which has been substituted or replaced within the Warranty period becomes a property of Maquinaria Industrial Dara SL.
- All the substituted or replaced parts will be original parts from Maquinaria Industrial Dara SL, or authorised by it. If the assembled part is not original, Warranty is invalidated
- If the malfunction or failure arises from a service not undertaken by the Technical Service from Maquinaria Industrial Dara SL, Warranty is invalidated.
- In case that the machine is transferred or transferred to another Customer, the new Customer has the subrogated rights of this Warranty, with the following conditions:
 - The former Customer must deliver all documenttion of the machine, specially the User Manual and the corresponding Certificates to the new Customer.
 - The new customer must report to Maquinaria Industrial Dara SL about such change before 72 hours. Maquinaria Industrial Dara SL will communicate to the new customer the conditions and remaining period of Warranty
- This Warranty covers the replacement or repair of parts, labour and taxes in all components that Maquinaria Industrial Dara SL considers essential for a correct operation of the machine.

Warranty does not cover:

- The replacement, repair or adjustment of components submitted to wear during the normal use of the machine.
- The periodic preventive maintenance procedures included in the User Manual.
- The fill of oil or periodic lubrication as specified by the User Manual.
- The failures or damages caused by an erroneous manoeuvre or collision, fire, explosion or vandalism.
- The replacement or repair of non-original assembled parts.
- Damages or failures caused by a lack of maintenance or lubrication.
- Damages or failures caused by non-compliance of safety standards or overriding of safety devices.

Maquinaria Industrial Dara SL recommends a preventive check of your machine by our Technical Service, after one year from the start up of the machine. If you wish to apply for this check, please contact to our Sales Department.

Granollers, 201



Dara stamp

Customer's signature