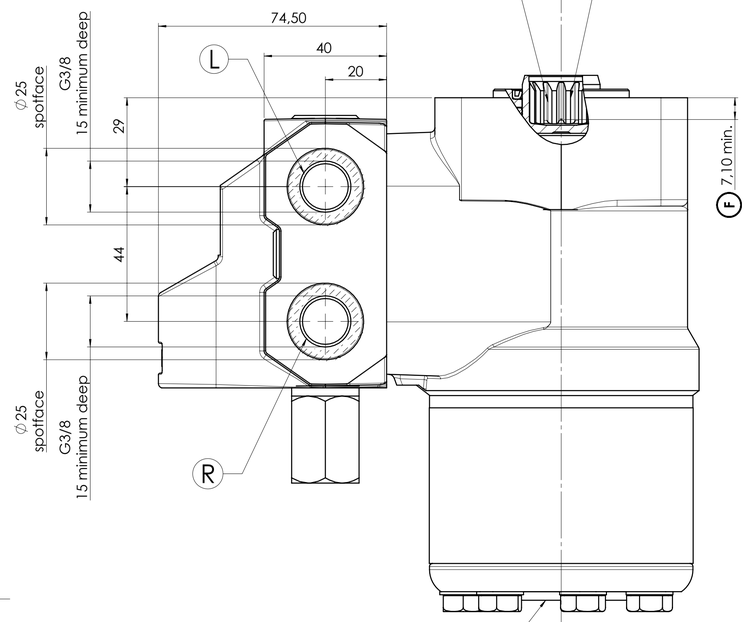
PART NUMBER **901652153** REV. **00**

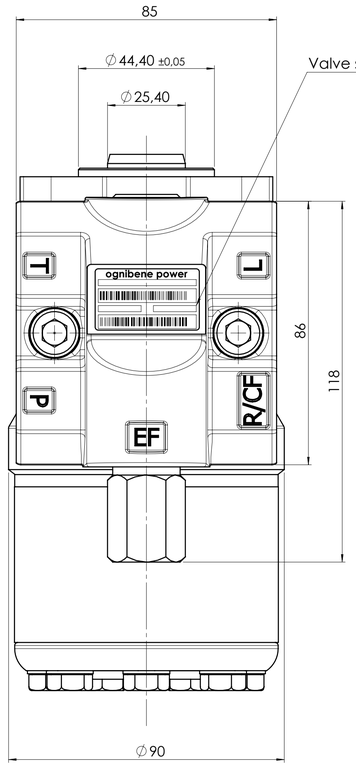
engineering@ognibene.com

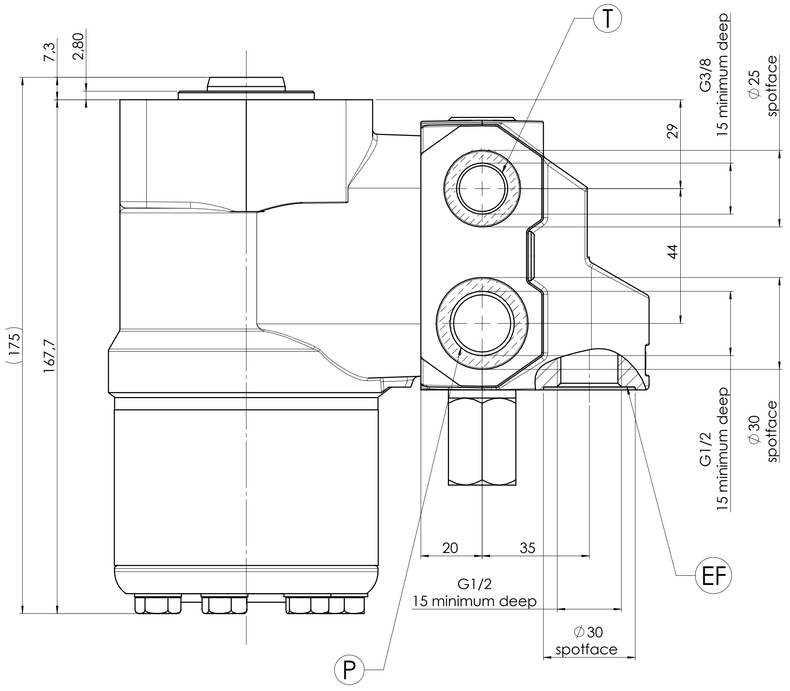
NEL DUBBIO, CHIEDERE!
IF YOU HAVE DOUBTS, ASK!
如有疑问，请务必确认！

In assembly lubricate with Calcium-Lithium grease

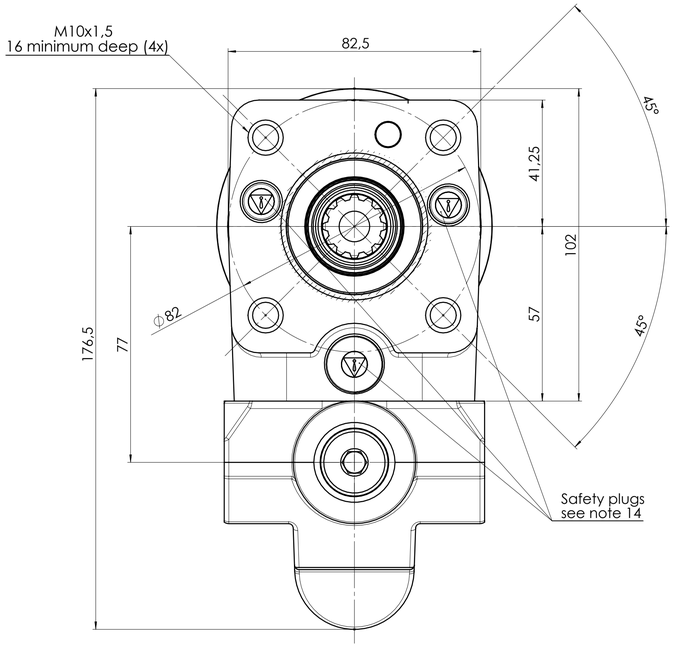
The steering column must not generate any axial or radial forces on the input shaft of the steering unit

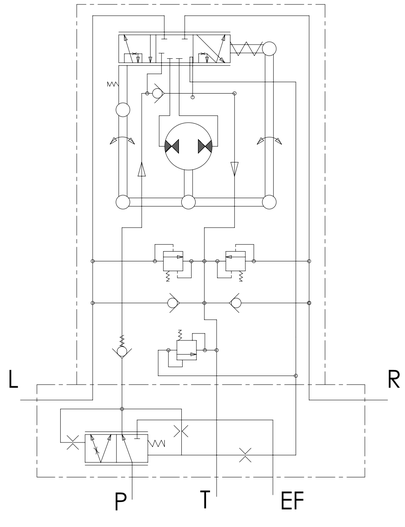






ognibene
901050154
Graphical ID + Serial Number
STI A LS 400 G4 F
L<-> <->R
T<- <-P





INTERNAL INVOLUTE SPLINE DATA STANDARD ANSI B92.1-1996 (F)	
Teeth number	12
Spline pitch	16/32
Pressure angle	30°
Pitch diameter	19.05
Major diameter	20.7 ± 0.1
Minor diameter	17.57 ÷ 17.8
Measurement between two pins	max 15.16
Pins diameter	2.743 ± 0.001

1) LOAD SENSING, NO REACTION

2) DISPLACEMENT: 400 cm³/rev

3) BUILT IN VALVES
Relief valve setting 175÷180bar @ 25l/min at P port of priority valve, 21cSt
Shock valves setting 235÷255bar @1,5 l/min, 21cSt
Suction valves included
Check valve P port included
Manual steering check valve included

4) CONTROL SPRING PRESSURE: 7 bar

5) PRIORITY VALVE NOMINAL FLOW: 40 l/min

5) STEERING TORQUE
Normal steering: 0,8÷3 Nm
Manual steering: 120Nm max.
Momentary load: 240Nm max.

6) MAX PRESSURE ON CONNECTIONS
T port: 35bar
EF port: 250 bar

8) GENERAL REQUIREMENTS
- Minimum recommended flow at P port of priority valve 63 l/min
- Oil temperature -30/+90°C
- Oil viscosity 10÷ 1000 cSt
- Maximum contamination of hydraulic system 21/19/16 according to ISO4406
- If the fluid used in the steering system is synthetic, bio-degradable, or flame retardant, please contact the Ognibene Power regarding sealing material.

9) OIL PORTS
P, EF ports: G1/2 according to ISO 1179-1
R, L, T ports: G3/8 according to ISO 1179-1

10) PAINTING SPECIFICATION
Painting Black RAL9005
Maximum painting temperature 120°C (max 20 min)
Oil ports P, T, R, L and EF to be protected with no-leak plugs (not shown in the drawing)

Do not paint area marked with

11) SEAL KIT PART NUMBER 800030026

12) SPECIAL FEATURES :
Number of (S)afety features: zero
Number of (C)ritical features: zero
Number of (F)unctional features: 2
To be managed according to OBS 310

13) DON'T GUESS! WATCH ANY MENTIONED SPECIFICATION OR SUBLEVEL DRAWING

14) WARRANTY NOT APPLICABLE ONCE SAFETY PLUGS ARE REMOVED

( ) SURFACE TEXTURE PER ISO 1302 IN µm

IMPORTANT
PRODUCT INSTRUCTIONS READ AND SAVE

TOLERANCE APPLICABLE TO NON TOLERATED DIMENSIONS
ALL DIMENSIONS ARE METRIC. ALL LINEAR SIZES IN mm

LINEAR DIMENSIONS	Dimension	up to 6	over 6 to 30	over 30 to 120	over 120 to 400	
	Tolerance	±0.5	±1	±1.5	±2	
FILLETS & CHAMFERS	Dimension	over 0.5 to 3	over 3 to 6	over 6		
	Tolerance	±0.5	±1	±1.5		
ANGULAR DIMENSIONS	Dimension					
	Tolerance	±4°				
GEOMETRICAL TOLERANCE		up to 10	over 10 to 30	over 30 to 100	over 100 to 300	
		0.05	0.1	0.2	0.4	
		up to 100	over 100 to 300		any size	
		0.4	0.6		0.2	

ECN	REV.	PLCS	DWR DATE	REVISION					SIGN. APPR.
21375	00	-	2023W12	Released.					G.S. P.B.
SIZE	SCALE	ENG.	ISO 128	APPROVED	PROCESS	ENGRG	DESIGN	MATERIAL RELEASED TO:	MASS Kg
A1	1:1	OPW		G.G.	P.R.	P.B.	G.S.	MASS PRODUCTION	8.92

ognibene power
THE STEERING PEOPLE

DENOMINAZIONE
STI LS 400 F + VPF 40
DESCRIPTION
STI LS 400 F + VPF 40
PART NUMBER **901652153** REV. **00** SHEET 1 OF 1

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42124 REGGIO EMILIA (ITALY) - TEL. +39 0522 502501

METRIC mm 100