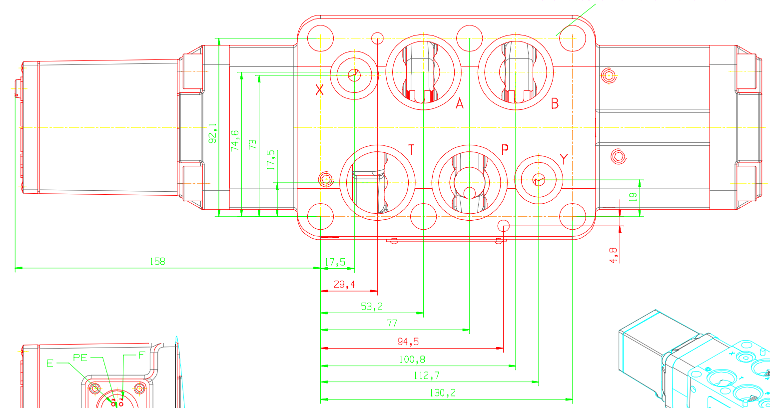
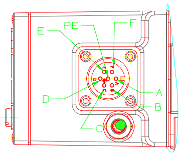
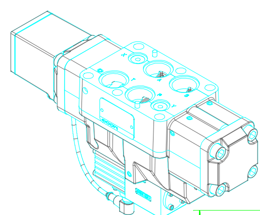
THE MOUNTING MANIFOLD MUST CONFORM TO ISO 4401-08-07-0-05 PORT ⌀32







CONVERSION INSTRUCTION

PILOT FLOW SUPPLY	SET SCREW ① NPTF 1/16	PILOT FLOW RETURN	SET SCREW ② M 6 CONICAL
INTERNAL P	OPEN	INTERNAL T*	OPEN
EXTERNAL X	CLOSED	EXTERNAL	CLOSED

* PORT Y RECOMMANDED

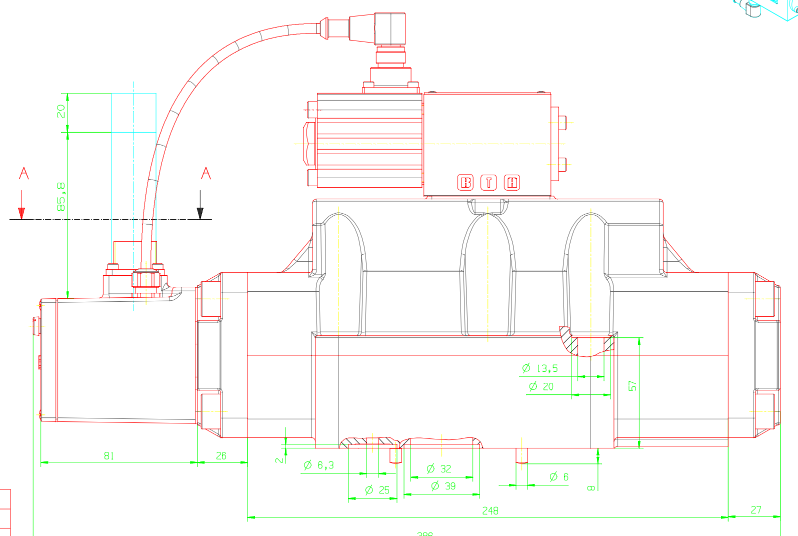
TECHNICAL DATA

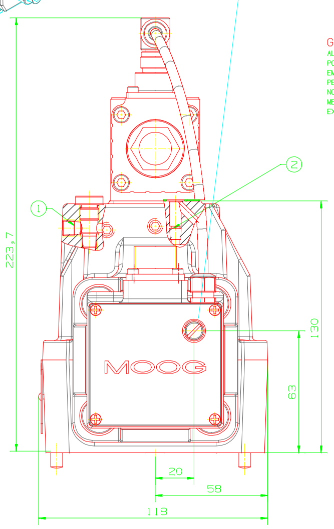
1. OPERATING PRESSURE
   MAIN STAGE PORT P,A,B — MAX. 350 bar
   PORT T — 70 bar PRESSURE, SPIKES TO 210 bar ('Y' INTERNAL) 350 bar ('Y' EXTERNAL)
   PILOT VALVE D633 — 10 TO 350 bar
2. OPERATING FLUID — MINERAL OIL BASED HYDRAULIC FLUID DIN 51524 PART 1-3 (ISO 6743 PART 4)
3. VISCOSITY
   RECOMMENDED — 15 TO 45 mm^2/s
   ALLOWABLE — 5 TO 400 mm^2/s
4. FILTER RATING
   FOR NORMAL OPERATION — $b_{10} \geqq 75$ (10µm ABSOLUTE)
   FOR LONGER LIFE — $b_{6} \geqq 75$ (6µm ABSOLUTE)
5. RECOMMENDED CLEANLINESS CLASS
   FOR NORMAL OPERATION — ISO 4406 < 19/16/13
   FOR LONGER LIFE — ISO 4406 < 17/14/11
6. TEMPERATURE RANGE
   AMBIENT — -20° C bis +60° C
   FLUID — -20° C bis +80° C
7. SEAL MATERIAL — NBR, FPM, AND OTHERS ON REQUEST
8. O-RINGS — MOOG P/N XXXXX-113 (ID34,60x Ø 2,6) (4x)
   MOOG P/N XXXXX-195 (ID20,29x Ø 2,6) (2x)
   KANTSEALS — MOOG P/N XXXXX-126Z (3x)
   MOOG P/N XXXXX-114Z (2x)
   MOOG P/N XXXXX-121Z (1x)
   MOOG P/N XXXXX-123Z (1x)
9. MOUNTING SURFACE — 0,01 mm OVER A DISTANCE OF 100 mm
   AVERAGE SURFACE FINISH VALUE — Ra ≦ 0,8 µm
10. MOUNTING BOLTS — M12x75(6x) EN ISO 4762-10.9 (NOT INCLUDED IN DELIVERY)
    REQUIRED TORQUE — 94 Nm
11. RATED FLOW AT 10 bar VALVE DROP — D683 MAX. 350 l/min; D684 MAX. 550 l/min
12. SPOOL STROKE — D683± 4,5 mm; D684± 6,0 mm
13. DEGREE OF PROTECTION (EN60529) — IP 65 WITH CONNECTED MATING PLUG

ELECTRICAL NULL ADJUST (BEHIND SCREW PLUG)

GENERAL REQUIREMENTS

ALL SIGNAL LINES, ALSO THOSE OF EXTERNAL TRANSDUCERS,SHIELDED. SHIELD CONNECTED RADIALLY TO (OV) POWER SUPPLY SIDE, AND CONNECTED TO THE MATING CONNECTOR HOUSING (EMC).
EMC: MEETS THE REQUIREMENTS OF EN 55011/03.91 CLASS B, EN 50081-1/01.92 AND EN 50082-2/03.95, PERFORMANCE CRITERION CLASS A. PROTECTIVE GROUNDING LEAD ≧ 0,75 mm^2
NOTE: WHEN MAKING ELECTRICAL CONNECTIONS TO THE VALVE (SHIELD;PROTECTIVE GROUNDING) APPROPRIATE MEASURES MUST BE TAKEN TO ENSURE THAT LOCALLY DIFFERENT EARTH POTENTIALS DO NOT RESULT IN EXCESSIVE GROUND CURRENTS. SEE ALSO MOOG APPLICATION NOTE TN353 E.





No.	Description	Qty.	Part-No.	Material / Rough Dimension / Info.

Unless otherwise specified:
Toleranzing principle to DIN ISO 2768-Ⓔ
Dimension: ± 0,1 Angular: ± 0.5°

Surface quality DIN EN ISO 1302: 3,2 √ (√) (√ (Rmax 10))

Non dimensioned workpiece edges to DIN 6784: -0,3 -0,1; +0,3

Index	Zone	Description of change	Date	Name
a		RELEASE AFNA 31800	17.11.06	MAK
-		-	-	-

Unit	Size	Scale	Sheet
MM	A1 / FSCM C0328	1:1	2/2

2006	Date	Name		Date	Name
Prep.	03.11	MAK	Qual.	-	-
Check	-	-	Eng.	07.11	WIM
Mfg.			Norm		
Matcon			Ext.		

Title:
INSTALLATION DRAWING
2STAGE PROPORTIONALVALVE
SERIES D683/4- P,D PILOT VALVE D633 ; M12x1

MOOG GMBH Böblingen/Germany

First use

Drawing-No.: CA48146

Origin.: Exch.for Repl.by:

Take notice of patent rights to DIN 34

This is a CAD drawing and must not be edited by hand!

More foreign-language drawings