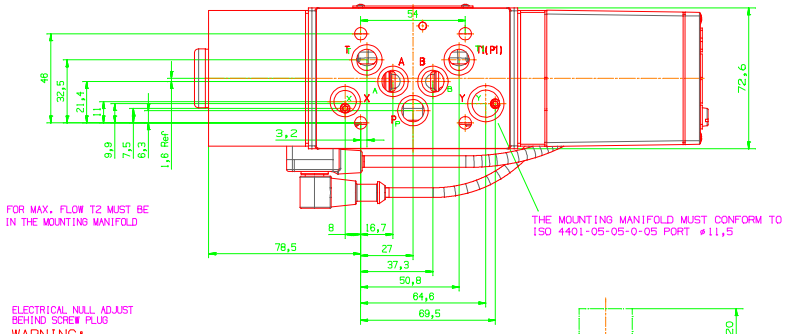


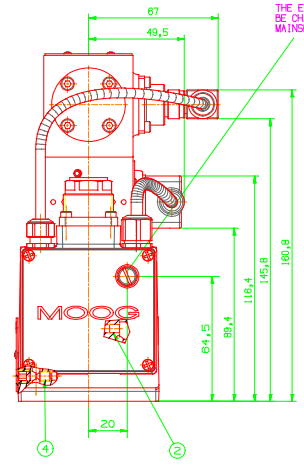
TECHNICAL DATA

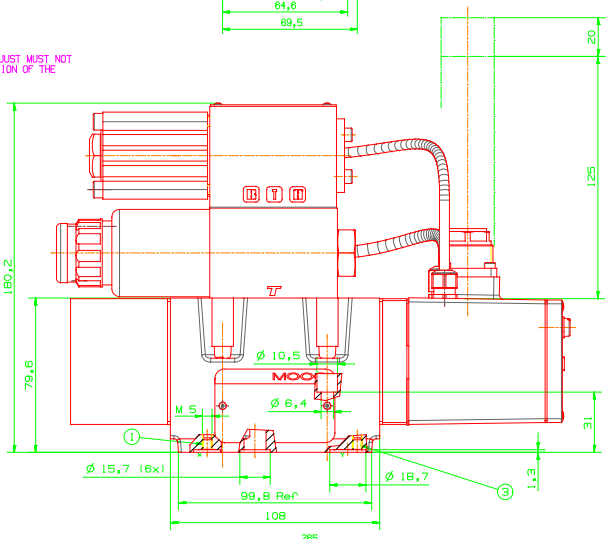
1.	OPERATING PRESSURE MAIN STAGE PORT P,A,B PORT T PILOT VALVE D633	MAX. 350bar 70bar PRESSURE, SPIKES TO 210bar ('Y' INTERNAL) 350bar ('Y' EXTERNAL) 10 TO 350bar
2.	OPERATING FLUID	MINERAL OIL BASED HYDRAULIC FLUID DIN 51524 PART 1-3 (ISO 6743 PART 4)
3.	VISCOSITY RECOMMENDED ALLOWABLE	15 TO 45mm²/s 5 TO 400mm²/s
3.	FILTER RATING FOR NORMAL OPERATION FOR LONGER LIFE	$\beta_{10} \geq 75$ (10µm ABSOLUTE) $\beta_6 \geq 75$ (6µm ABSOLUTE)
4.	RECOMMENDED CLEANLINESS CLASS FOR NORMAL OPERATION FOR LONGER LIFE	ISO 4406 < 18/15/12 ISO 4406 < 17/14/11
5.	TEMPERATURE RANGE AMBIENT FLUID	-20° C bis +60° C (-4° F TO + 140° F) -20° C bis +90° C (-4° F TO + 170° F)
6.	SEAL MATERIAL	NBR, FPM, AND OTHERS ON REQUEST
7.	O-RINGS	MOOG P/N XXXXX-004 (ID12,4x Ø 1,8) (6x) MOOG P/N XXXXX-011 (ID15,6x Ø 1,8) (1x)
8.	MOUNTING SURFACE AVERAGE SURFACE FINISH VALUE	0,01mm OVER A DISTANCE OF 100mm Ra ≤ 0,8mm
9.	MOUNTING BOLTS REQUIRED TORQUE	M6x40(4x) EN ISO 4762-10.9 (NOT INCLUDED IN DELIVERY) 11Nm
10.	RATED FLOW AT 10bar VALVE DROP	MAX. 80l/min
11.	SPOOL STROKE	±3,0mm
12.	DEGREE OF PROTECTION (EN60529)	IP 65
13.	SPOOL POSITION	SEE TABLE

ELECTRICAL NULL ADJUST BEHIND SCREW PLUG

WARNING:

THE ELECTRICAL NULL ADJUST MUST NOT BE CHANGED IF THE POSITION OF THE MAINSPOOL IS MONITORED





GENERAL REQUIREMENTS

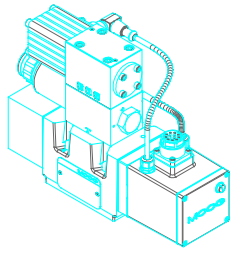
C41089 □□□ - □

CONNECTOR
z.B. E = 11+PE

SIGNAL TYPE
z.B. A = ±10V INPUT ±10V OUTPUT

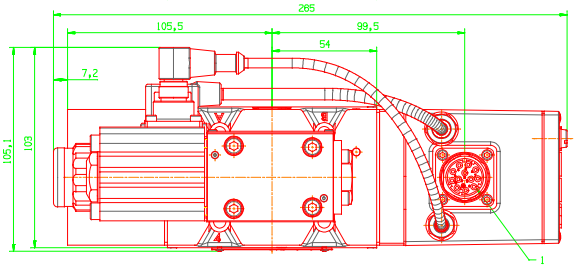
SUPPLY VOLTAGE VALVE ELECTRONIC
024 = 24V

FAILSAFE FUNCTION OF VALVE ELECTRONIC SEE CATALOGUE OR DATA SHEET AM350
z.B. 0 = NO ENABLE INPUT



1. WITHOUT FUNCTION 24VDC (MAGNETIC) DEF. MID POSITION
2. WITHOUT ELECTRIAL SUPPLY (±24VDC) BUT WITH ELECTRO MAGNETIC 24VDC AND pX ≥ 15 BAR

TYPE DESIGNATION	SYSTEM PRESSURE	PILOT PRESSURE pX (INTERNAL pP)	SPOOL POSITION	VALVE ELECTRONICS
G	≥15 BAR	≥15 BAR	B→T	ON
U	≥15 BAR	≥15 BAR	A→T	ON
W	≥15 BAR	≥15 BAR	UNDEFINED	ON



CONVERSION INSTRUCTION

PILOT FLOW SUPPLY	SET SCREW M4x6		PILOT FLOW RETURN	SET SCREW M4x6	
INTERNAL P	① CLOSED	② OPEN	INTERNAL T	③ CLOSED	④ OPEN
EXTERNAL X	② CLOSED	① OPEN	EXTERNAL Y	④ CLOSED	③ OPEN

Rev. Europ.-Amerik. Design

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

Unless otherwise specified:
Tolerancing principle to DIN ISO 2768-fH
Dimension ± 0,1 Angular: ± 0,5°
Surface quality DIN EN ISO 1302 Rmax 10
Non dimensioned workpiece edges to DIN 6784

Index	Zone	Description of change	Date	Name
a		RELEASE ESGA 13478	15.01.04	DMS
b		CHANGE ESGA 13571	05.07.04	PWE
-	-	-	-	-

2005	Date	Name		Date	Name
Prep.	11.11.03	MAK	Qual.		
Check	11.11.03	BEK	Eng.	11.11.03	BEK
Mfg.			Norm		
Material			Ext.		

MOOG
GmbH
Böblingen/Germany

Unit: MM | Size: A1 | FSCM: 0.0.2626 | Scale: 1:1 | Sheet: 2 / 2

Title: INSTALLATION DRAWING
4-WAY PROPORTIONALVALVE
D681-P FAILSAFE (11+PE)

First use
Drawing-No.: CA30038

Orig.by. Exch.for
This is a CAD drawing and must not be edited by hand

Repl.by.

Take notice of patent rights to DIN 34