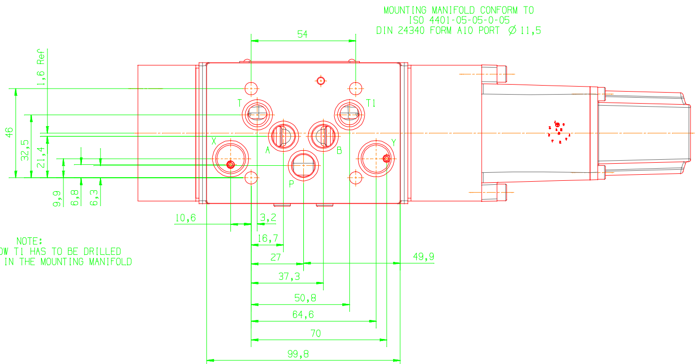
TYPE DESIGNATION	SYSTEM PRESSURE pP	PILOT PRESSURE pX (INTERNAL pS)	SPOOL POSITION
A	≥15 bar	≥15 bar	P → B A → T
B	≥15 bar	≥15 bar	P → A B → T
O	≥15 bar	≥15 bar	UNDEFINED

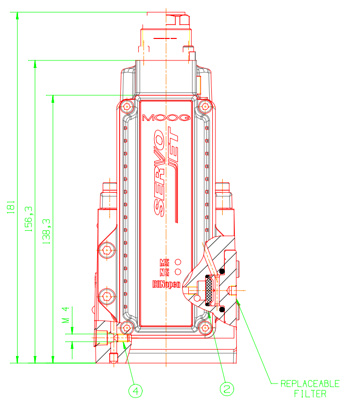
TYPE DESIGNATION
C72734 □□□

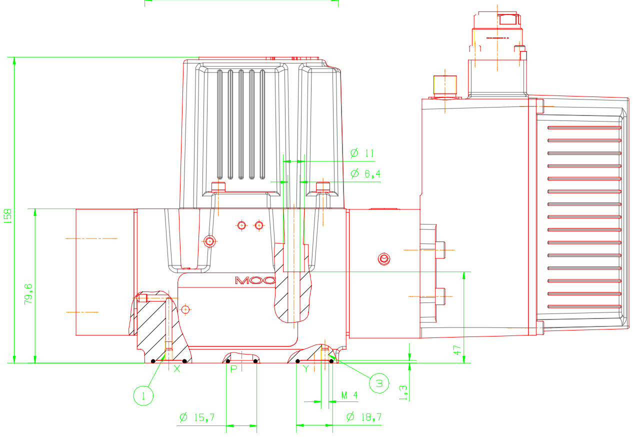
HYDRAULIC SCHEMATIC
DWG-NO B90747 □□□

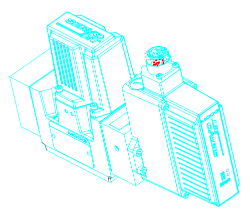
MAIN SPOOL POSITION

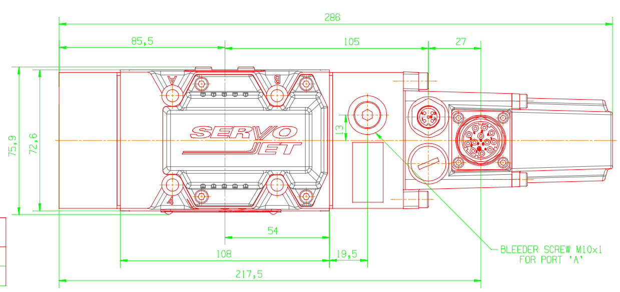
NOTE:
FOR MAX. FLOW T1 HAS TO BE DRILLED
SUPPLEMENTARY IN THE MOUNTING MANIFOLD











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

Weitere fremdspr. Zeichungen

TECHNICAL DATA

1. OPERATING PRESSURE RANGE
   - WITH ORIFICE — 350 bar
   - WITHOUT ORIFICE — 280 bar
   - RETURN PRESSURE — MAX. TO 210 bar
2. OPERATING FLUID — MINERAL OIL BASED HYDR.FLUID TO DIN 51524 PART 1-3 (ISO 6743 PART 4)
   - VISCOSITY RECOMMENDED — 15 TO 45 mm^2/s (cSt)
   - ALLOWABLE — 5 TO 400 mm^2/s (cSt)
3. FILTER RATING
   - FOR NORMAL OPERATION — $\beta_{10} \geq 75$ (10µm ABSOLUTE)
   - FOR LONGER LIFE — $\beta_6 \geq 75$ (6µm ABSOLUTE)
   - RECOMMENDED CLEANLINESS CLASS
   - FOR NORMAL OPERATION — ISO 4406 < 18/15/12
   - FOR LONGER LIFE — ISO 4406 < 17/14/11
4. TEMPERATUR RANGE
   - AMBIENT — -20° C TO +60° C
   - FLUID — -20° C TO +80° C
5. SEAL MATERIAL — NBR (FOR REQUEST FPM OR EPDM)
6. BASE O-RINGS — MOOG P/N XXXXX-004 (5x)(ID12,4x1,78) AND XXXXX-011 (2x)(ID15,6x1,78)
7. MOUNTING SURFACE — NEEDS TO BE FLAT WITHIN 0,01mm Ra<1µm (Rmax<10)
8. MOUNTING BOLTS — M6x55 EN ISO 4762-12.9 (NOT INCLUDED IN DELIVERY) REQUIRED TORQUE 13 Nm
9. RATED FLOW — 80 l/min, ΔP_v = 5 bar/LEADING EDGE
10. SPOOL STROKE — ±3 mm
    - SPOOL LIMIT MECHANICALLY — ±3,6 mm
11. RATED COMMAND — 0 ... +10V; 0...10mA; 4...20mA, CAN
12. PRESSURE TRANSDUCER

RATED PRESSURE (bar)	100	250	400
LINEARITY (%)	+0,25	+0,18	+0,15

13. MATING CONNECTOR — MOOG P/N B97067-111 (FOR 11+PE) DIN EN 175201-804
14. PROTECTION CLASS EN 60529 — IP 65
15. MASS — TBD g

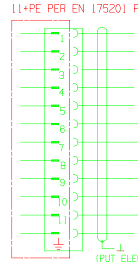
GENERAL REQUIREMENTS

ALL SIGNAL LINES, ALSO THOSE OF EXTERNAL TRANSDUCERS,SHIELDED. SHIELD CONNECTED RADIALLY TO ⊥(0V) 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.

CAN

1	CAN-SHLD
2	CAN-V+
3	CAN-GND
4	CAN-H
5	CAN-L

11+PE PER EN 175201 PART 804



1	NOT BUSY
2	NOT BUSY
3	INPUT RELEASE
4	INPUT 1 ANALOG (INPUT VALVE FLOW FUNCTION) (b)
5	RELATING MASS INPUT ANALOG (REFERENCE TO GROUND FOR PIN 4 AND 7) (b)
6	OUTPUT 1 ANALOG (OUTPUT ACTUAL VALVE SPOOL POSITION) (b)
7	INPUT 2 ANALOG (INPUT COMMAND PRESSURE FUNCTION) (b)
8	OUTPUT 2 ANALOG (OUTPUT ACTUAL PRESSURE) (b)
9	VOLTAGE SUPPLY 24V=
10	VOLTAGE SUPPLY 0V
11	OUTPUT 2 DIGITAL
⏚	PROTECTIVE GROUNDING

(PUT ELECTROMAGNETIC SHIELDING ON SWITCHBOARD SIDE TO ⊥)

PROTOTYPE
Zur Fertigung freigegeben
Released for production
Produkt Ing:
Datum:

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 EOGN 28342		
b		CHANGE EOGN 12967		
		PROTOTYPE		

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

2004	Date	Name		Date	Name
Prep.	05.02.04	ZIH	Qual.		
Check			Eng.	09.10.03	RIF
Mfg.			Norm		
Matcon			Ext.		

Title:
INSTALLATION DRAWING
P/Q-PROPORTIONALVALVE
D941E6001

MOOG GMBH
Böblingen/Germany

First use
Drawing-No.: C72734

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!