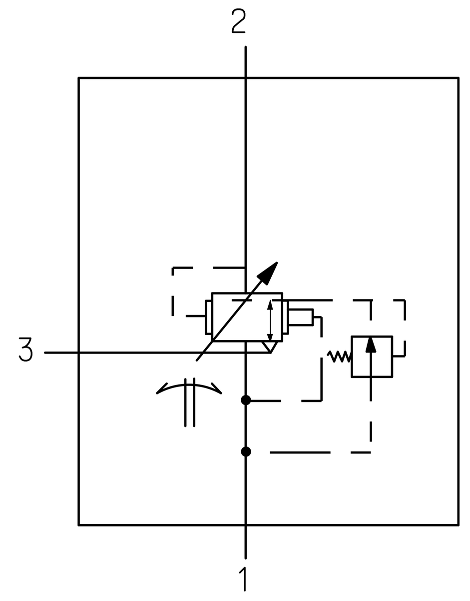
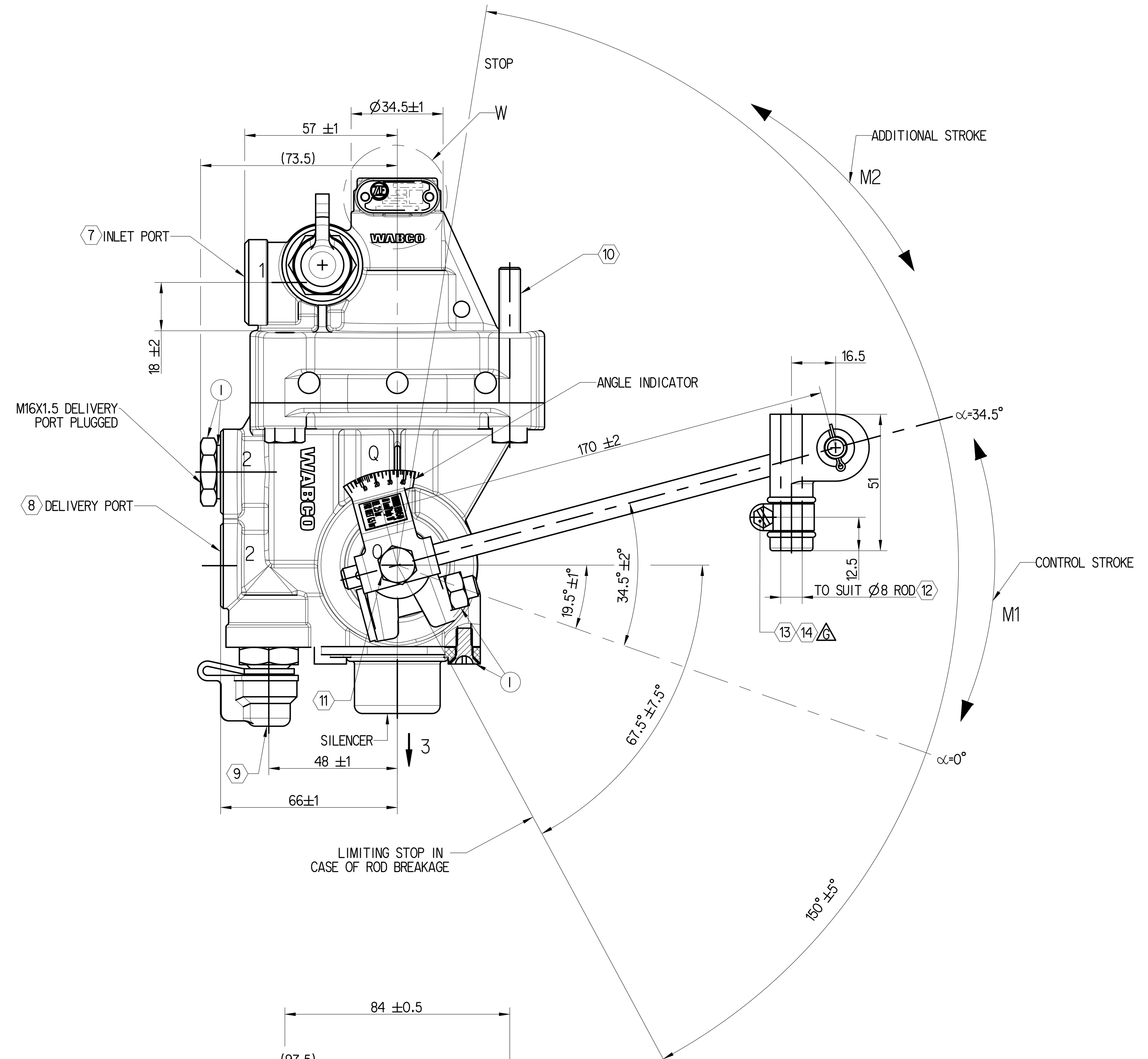
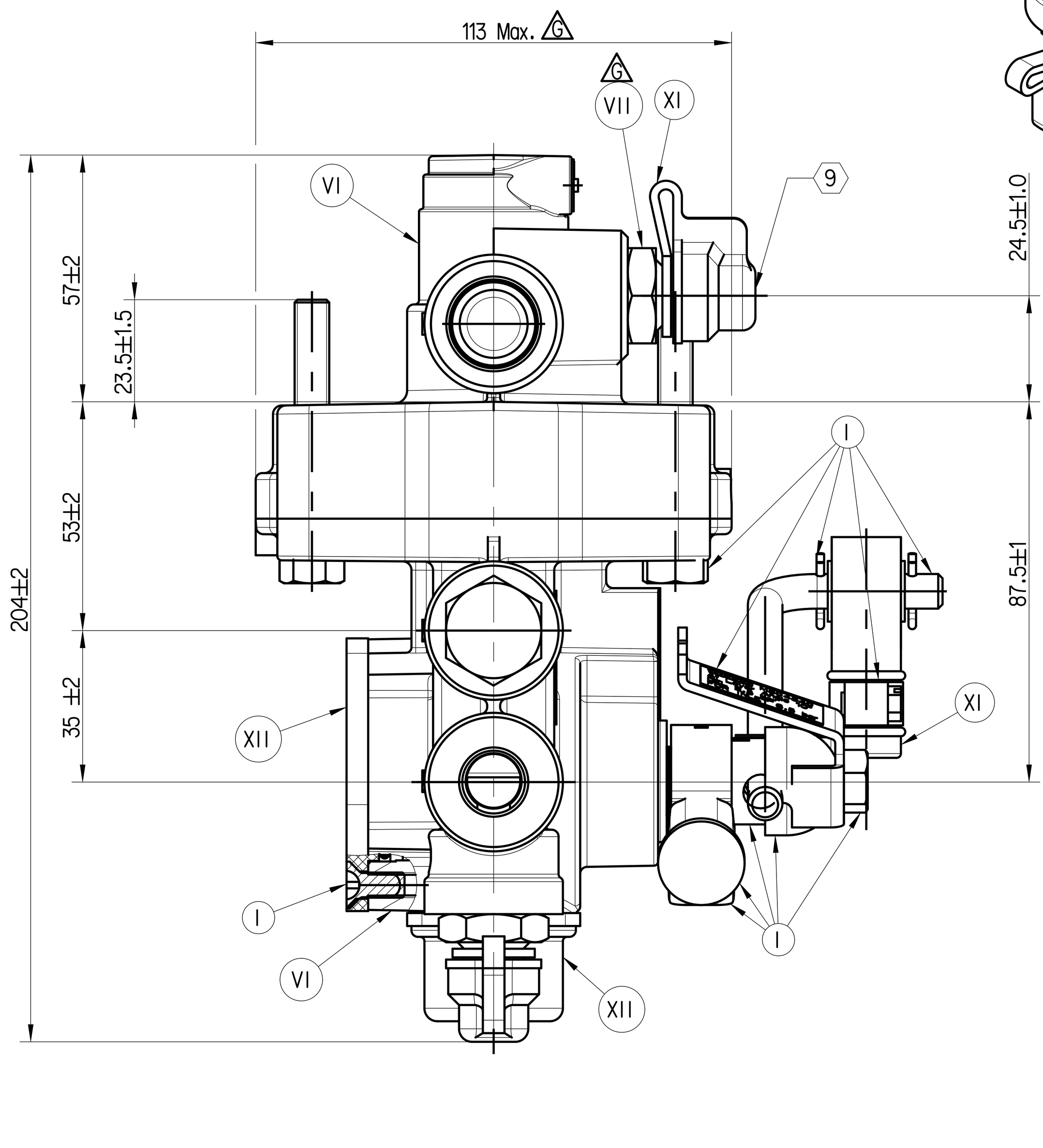
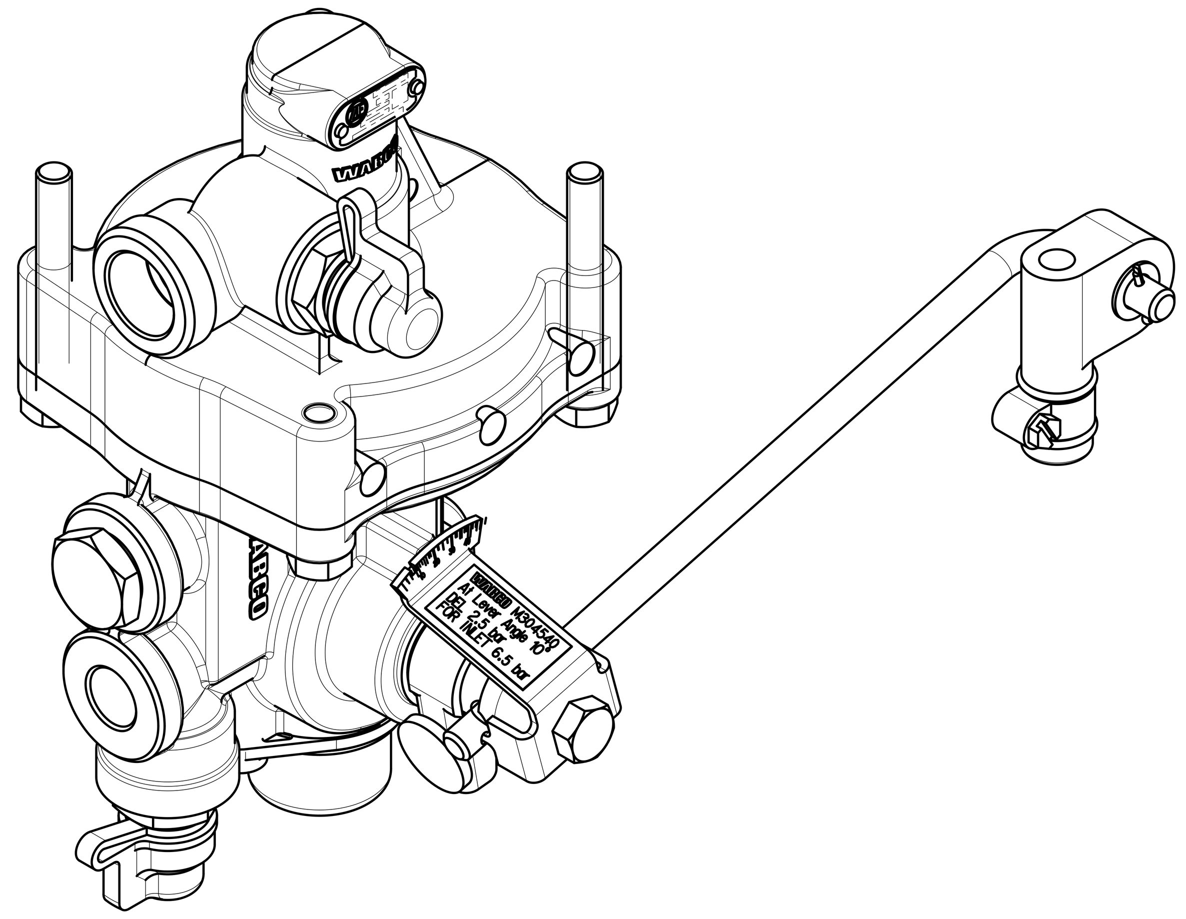
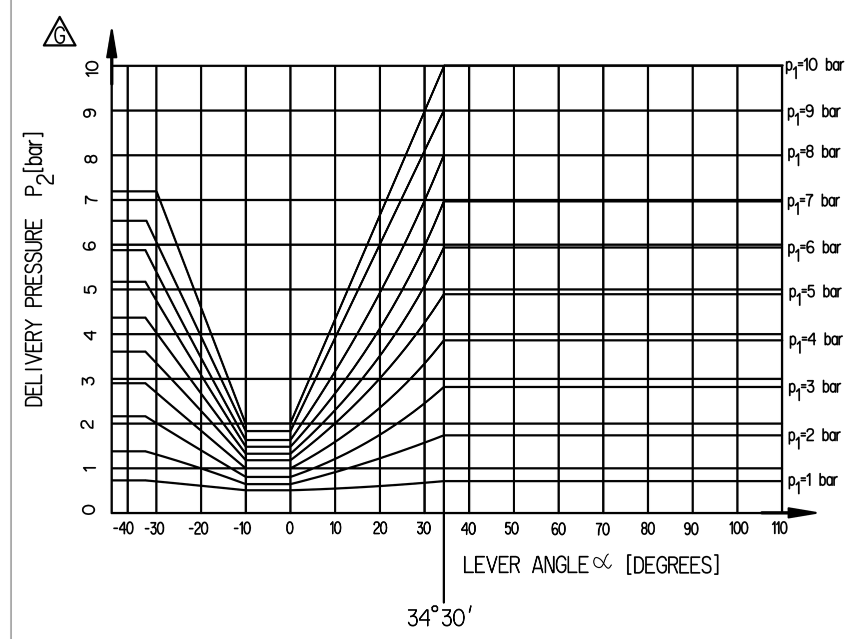
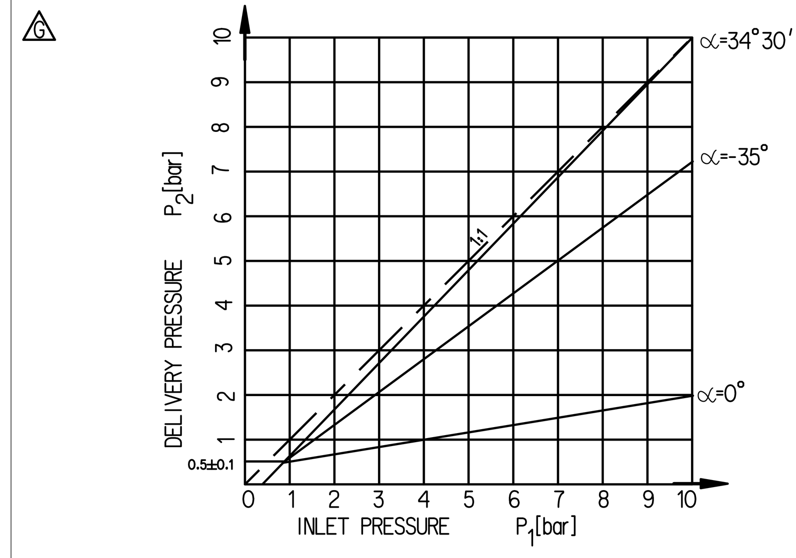




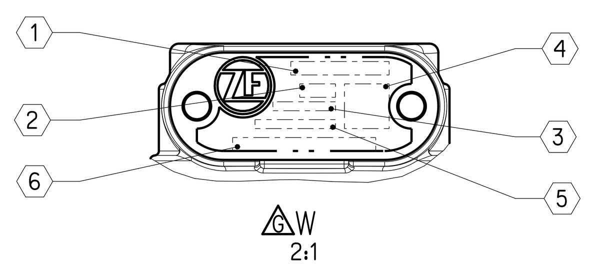




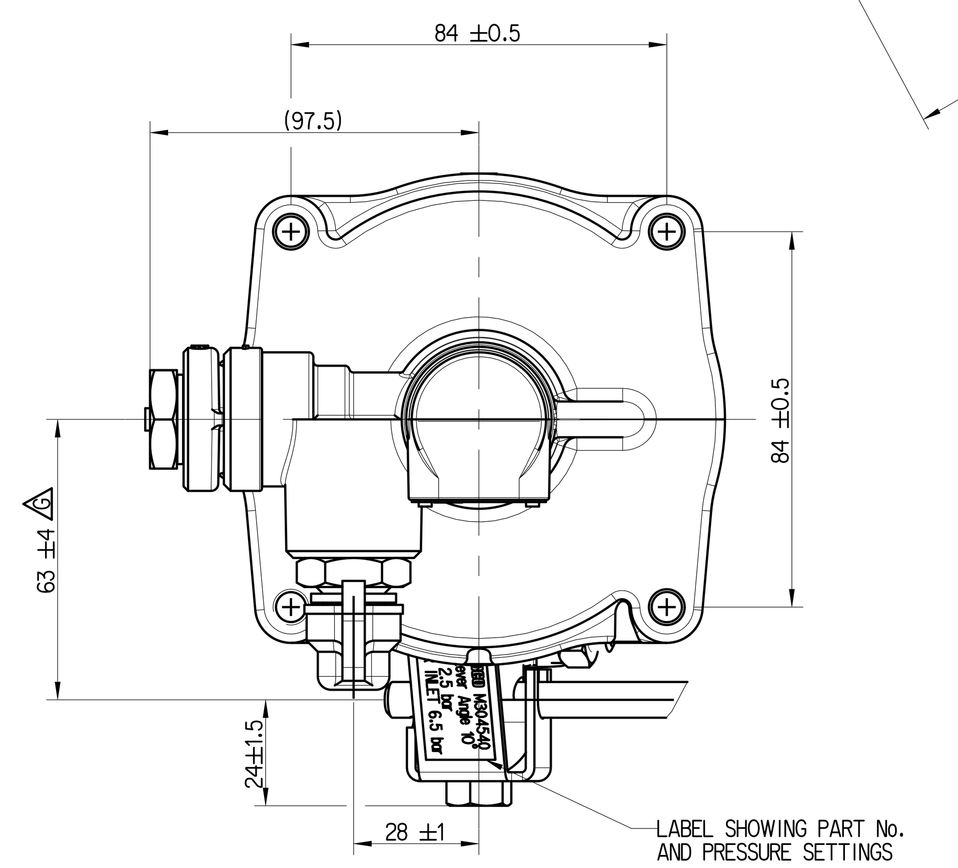




SL.No.	NOTES	
1	PRODUCT FUNCTION AND RELIABILITY	
1.1	WORKING MEDIUM	AIR
1.2	NORMAL WORKING PRESSURE	10 bar
1.3	EQUIVALENT FLOW DIAMETER (WITHOUT END FITTINGS)	10 mm
1.4	NOISE LEVEL WHEN TESTED AS PER PS	≤ 72 dB(A)
1.5	THERMAL RANGE OF APPLICATION	- 40°C TO +80°C
1.6	HYSTERISIS	≤ 0.3 bar
1.7	SENSITIVITY	≤ 0.15 bar
2	M1 = NECESSARY DISPLACING MOMENT	1.7 N m (p1=0 bar)
	M2 = ADMISSIBLE DISPLACING MOMENT	20 N m
	Q = LOCATION REFERS PROJECTED EDGE ON LOWER BODY	
	O = LOCATION REFERS CENTER OF LEVER CLAMPING RING	
	WHEN Q COINCIDE, WITH 10° ANGLE POSITION ON THE ANGLE INDICATOR, THE DELIVERY PRESSURE SHOULD BE 2.5 ±0.25 bar FOR AN INLET PRESSURE OF 6.5 bar. WHEN Q COINCIDE, WITH 34° ANGLE POSITION ON THE ANGLE INDICATOR, THE DELIVERY PRESSURE SHOULD BE 6.4 ±0.1 bar FOR AN INLET PRESSURE OF 6.5 bar	
3	INSTALLATION POSITION OF THE VALVE TO BE VERTICAL AND EXHAUST FACING DOWNWARDS	
G 12 — 4	ROD SHOULD MOVE FREELY WHEN SCREW IS LOOSE AND SHOULD GRIP FIRMLY WHEN SCREW IS TIGHTENED.	
G 14 — 5	IN SUPPLIED CONDITION, WORM CLAMP IS SUFFICIENTLY TIGHTENED TO FIRMLY ATTACHED WITH THE LINK. CUSTOMER NEED TO LOOSEN THE CLAMP WITH SUITABLE TOOL DURING INSTALLATION.	
6	QUALITY COMPLIANCE TESTS WILL BE CARRIED OUT REGULARLY AS PER PRODUCT SPECIFCATION	
7	OPEN PORTS/ MALE THREADS ARE FITTED WITH CLOSURE PLUGS/ CLOSURE SLEEVES FOR STORAGE AND TRANSIT PURPOSES	



1	CUSTOMER PART NUMBER
2	PRI CODE
3	SERIAL NUMBER
4	2D DATA MATRIX
5	BATCH CODE
6	ZF PART NUMBER



LABEL DETAILS
(REFER TABLE)

PART NO.	LEVER ASSEMBLY POSITION	LABEL PRINTED ASSEMBLY NO.
100304540	BASIC DRAWING	M304540
100306220	FIG. T	M306220

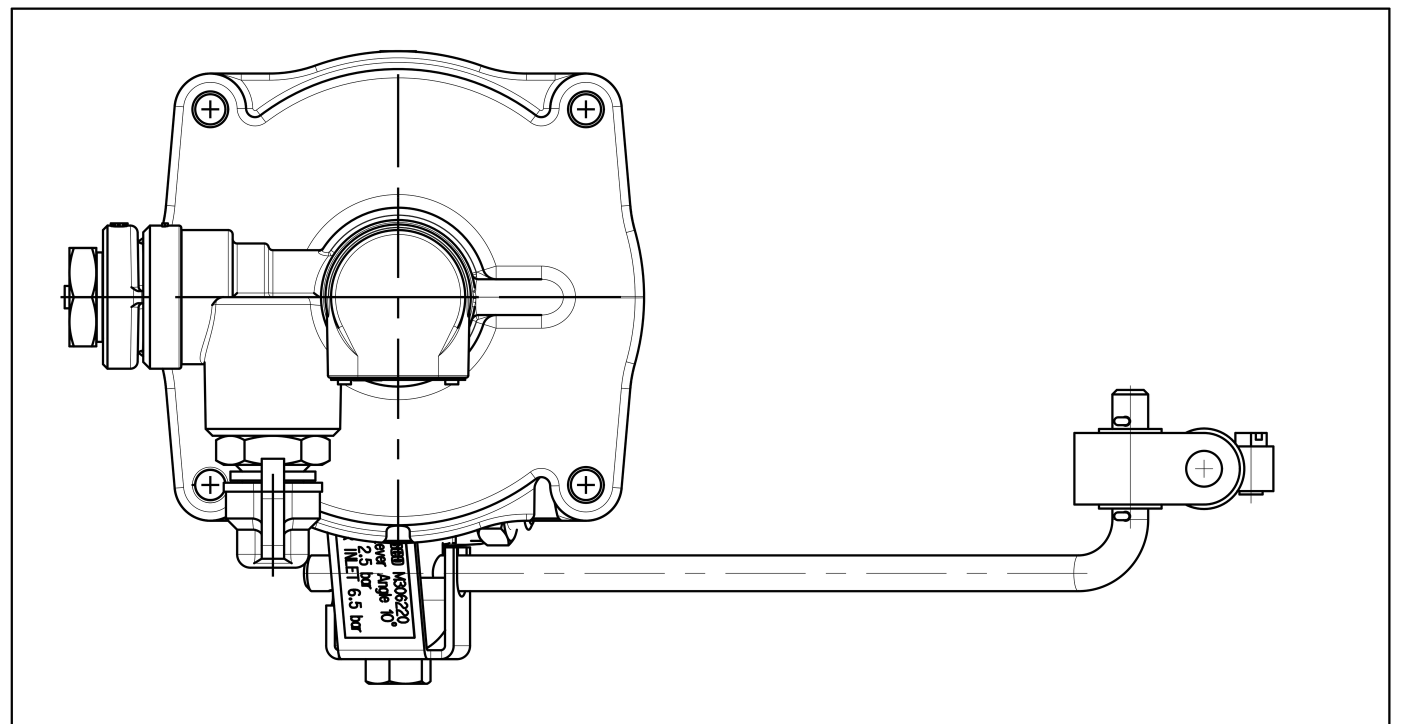


FIG. T

XVII	STEEL	NO TREATMENT
XVI	CAST IRON	PLATED
XV	STEEL	ZINC IRON PLATED
XIV	CAST IRON	NO TREATMENT
XIII	ZINC ALLOY	ANODISED
XII	PLASTIC	NO TREATMENT
XI	RUBBER	NO TREATMENT
X	STAINLESS STEEL	NO TREATMENT
IX	BRASS	NO TREATMENT
VIII	ZINC ALLOY	CHROMATED
VII	ALUMINIUM ALLOY	ANODISED
VI	ALUMINIUM ALLOY	CHROMATED
V	CAST IRON	PAINTED
IV	STEEL	POWDER COATED
III	STEEL	PAINTED
II	STEEL	PHOSPHATED
I	STEEL	ZINC PLATED
PART CODE	MATERIAL	SURFACE PROTECTION

	7	8	9	10	11	13 G
THREAD TYPE	INLET CONNECTION M22x1.5 DEEP 13 mm Min.	DELIVERY CONNECTION M16x1.5 DEEP 12 mm Min.	PRESSURE TEST CONNECTOR M16x1.5 HEX 22	3X MOUNTING BOLT M8x1.25 HEX.13	M8x1.25 HEX.13	CUSTOMER TO ENSURE WORM DRIVE HOSE SCREW
PERMISSIBLE TORQUE	45 N m Max.	30 N m Max.	G 31.5±2.5 N m	22.5±2.5 N m	G 22.5±2.5 N m	2±0.5 Nm

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G

General Specification: ISO 8015, JED-334-1, Size ISO 14405 LP
Further Technical Data: 100303550
Doc. Code: 035 | Sheet: 1 To

General Tolerances JED-261

Class 1)		≤ 50	> 50 ≤ 180	> 180 ≤ 400	> 400	∠
Fine		±0.5	±1	±1.5	±2	±3°
Medium	X	±1	±2	±3	±4	
Coarse		±2	±3.5	±5	±6.5	

Range of nominal dimensions in mm

Tapped Holes acc. -
1) Tolerance Class Applied Crossmarked

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	Date	Signature
Drawn	2026-05-04	Ramkumar
Checked	2026-05-04	Thooyavan

Dimensions in mm

AUTOMATIC LOAD SENSING VALVE

Mass	Scale	Material No.	Date of first issue: 2009-04-29		
1.9 kg	1:1 (2:1)	100304540	Doc.Code 053	Language EN	Sheet 1/1
Size A 0	CAD System CREO	ECN-No. 522468	Revision G 13	Techn. Resp. 5270_WIN	Replacement for

100mm