

DO NOT SCALE IF IN DOUBT ASK

**PART No.**  
M 304590 etc GA

**ENGINEERING CHANGES**

ECH No.	DATE	REV	SRN
8/49	8.7.02	New	SN

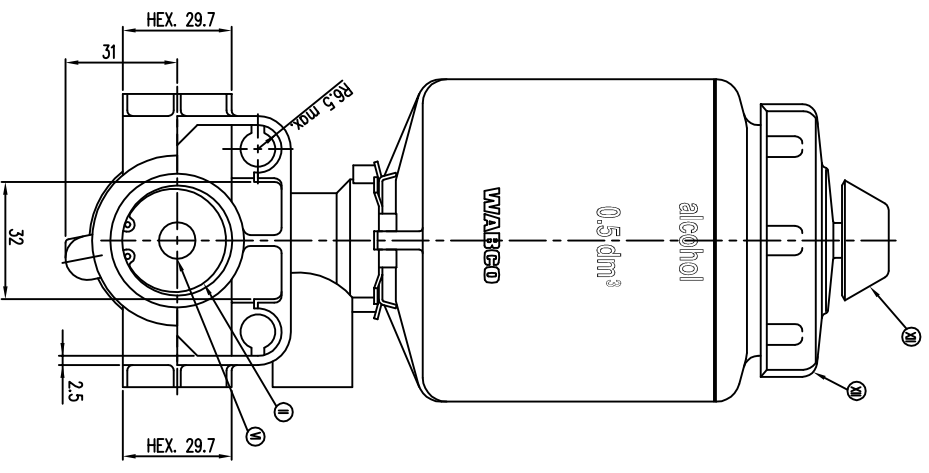
8812 22.8.02 1 K/K  
Scanned drawing converted to Acad  
drawing. Assembly drawing M304690  
added. Drawing redrawn.

9568 18.11.04 2 PV  
Drawing pictorially modified inline with  
template. Drawing redrawn.

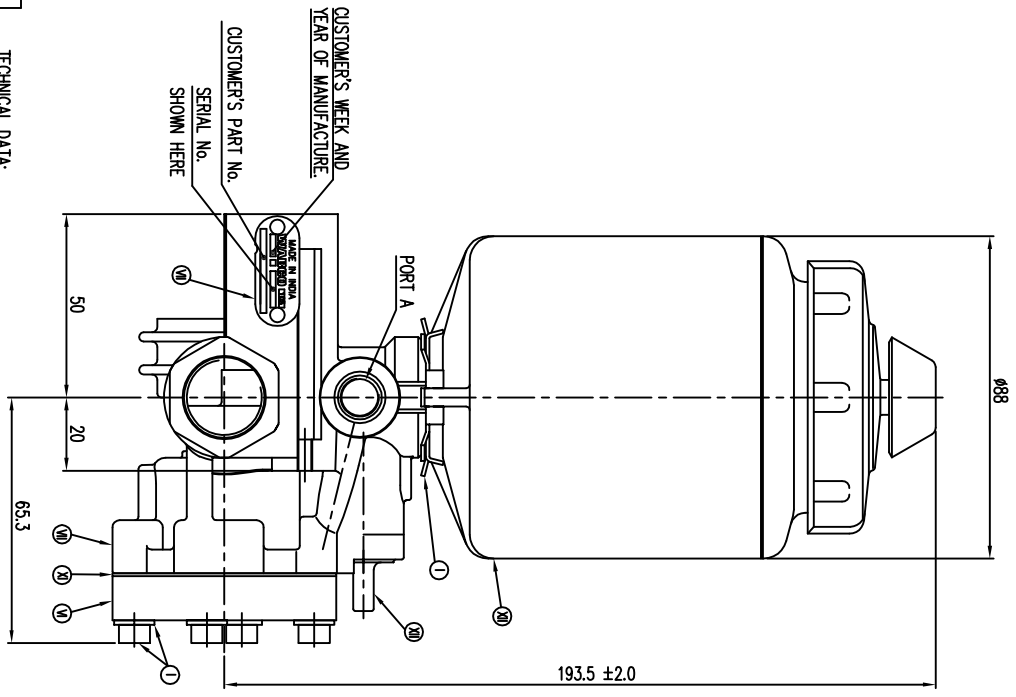
9839 7.06.05 3 RBS  
Drawing pictorially modified inline with  
template. Dimension indication  
changed to nominal and bilateral  
tolerance from upper and lower limits.  
Torque 50.5±2.5 Nm and 19±2 Nm  
were 53/47 Nm and 21/19 Nm  
respectively. Drawing redrawn.

12083 16.03.11 4 RBS  
Drawing template WABCO was WABCO-VS  
(Indo) Ltd. Drawing pictorially modified  
inline with ports. Drawing redrawn.

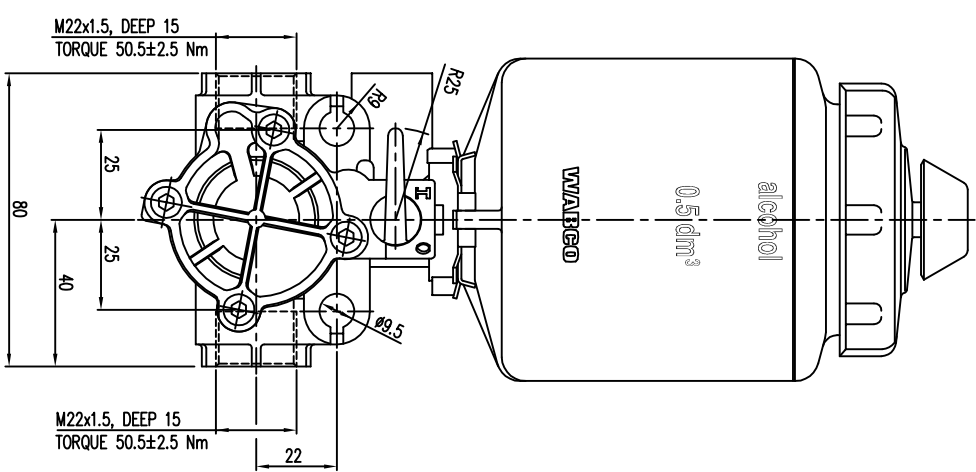
XXI	PLASTIC	NO TREATMENT
XX	RUBBER	NO TREATMENT
XIX	STAINLESS STEEL	NO TREATMENT
XVIII	BRASS	CHEMICALIZED
XVII	ZINC ALLOY	CHEMICALIZED
XVI	ALUMINIUM ALLOY (ANODIZED)	
XV	ALUMINIUM ALLOY (CHEMICALIZED)	
IV	CAST IRON	PAINTED
III	STEEL	POWDER COATED
II	STEEL	PAINTED
I	STEEL	PHOSPHATIZED
	STEEL	ZINC PLATED
PART CODE	MATERIAL	SURFACE PROTECTION
SN	DATE	MATERIAL
DRN	BSN	13.03.11
CHD	RBS	13.03.11
APP	SN	13.03.11



PART No.	PORT A	CUSTOMER PART NO.
M 304590	---	932 002 100 0
M 304600	M2x1.5, DEEP 11 TORQUE 19±2 Nm.	932 002 101 0
M 304610	---	932 002 102 0
M 304690	M2x1.5, DEEP 11 TORQUE 19±2 Nm.	932 002 103 0



**TECHNICAL DATA:**  
WORKING MEDIUM : AIR  
THERMAL RANGE OF APPLICATION : -40°C +130°C  
MAXIMUM WORKING PRESSURE : 18 bar  
AIR FLOW DIRECTION: OPTIONAL  
INSTALLATION: VERTICAL OR INCLINED TO ALL SIDES UP TO 15°  
OPEN PORTS ARE FITTED WITH CLOSURE PLUGS  
FOR STORAGE AND TRANSIT PURPOSES



**WABCO**  
AMBATTUR, CHENNAI - 600058, INDIA

**GENERAL TOLERANCES**

RANGE OF NOMINAL DIMENSIONS (± mm)	GENERAL TOLERANCES (± %)	FORCE, POWER, PRESSURE etc. (± %)
≤ 50	1	10
> 50 ≤ 180	2	
> 180 ≤ 400	3	
> 400	4	

**SCALE**  
1 : 1

ANTI FREEZE PUMP  
WITH RESERVOIR

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