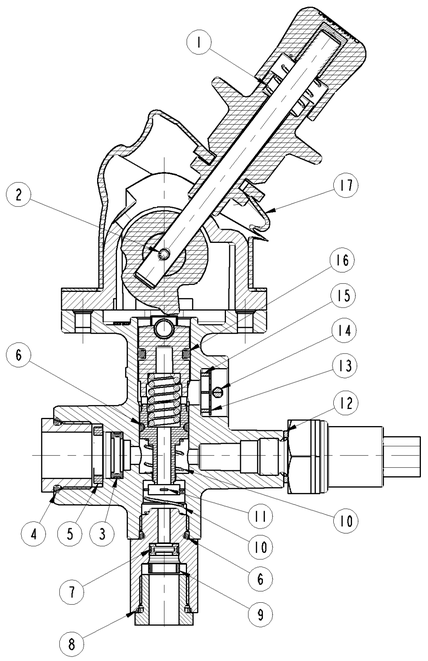
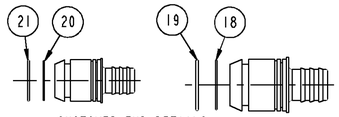
PART No. M306860 GA

ENGINEERING CHANGES			
ECN No.	DATE	REV	SIGN
11014	19.11.07	New	AGM
11480	29.05.09	1	SAJ
Drawing pictorially modified inline with valve body (machining). Drawing redrawn.			
11660	25.09.09	2	RBS
Drawing pictorially modified inline with valve body (machining). Drawing redrawn.			
12083	16.03.11	3	RBS
Drawing template WABCO was WABCO-TVS(India) Ltd. Drawing pictorially modified inline with parts. Drawing redrawn.			





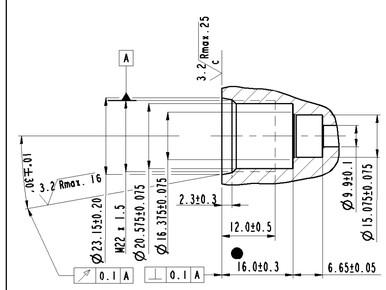
CUSTOMER END DETAILS

MSP 3/93 REPAIR KIT CONSISTS OF ITEMS AS SHOWN

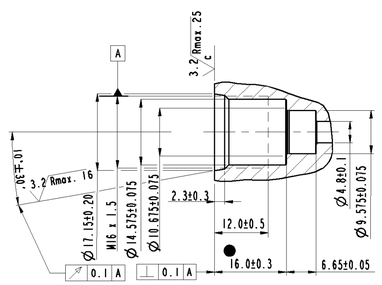
ITEM No.	EML PART No.	SCL PART No	DESCRIPTION	QTY
1		N334770	SPRING	1
2		N916940	TENSION PIN	1
3		N932720	SPRING ELEMENT NG-12	1
4		N932700	SEALING RING NG-12	1
5		N932730	RETAINER NG-12	1
6		N933440	SEALING RING	2
7		N932780	SPRING ELEMENT NG-8	1
8		N932760	SEALING RING NG-8	1
9		N932770	RETAINER NG-8	1
10		N336860	SPRING	2
11		N310010	VALVE	1
12		N910130	WASHER	1
13		N920920	STRAINER PLATE	1
14		N912270	SPLIT PIN	1
15		N920910	FILTER	1
16		N630720	SEALING RING	1
17		N334740	GAITER	1
18		N935980	SEALING RING NG-12	1
19		N935900	SEALING RING NG-12	1
20		N936000	SEALING RING NG-8	1
21		N936010	SEALING RING NG-8	1
22		N923480	SHIM	1
23		N923490	SHIM	1
24		N923500	SHIM	1
25		N919910	GREASE SACHET	1

ITEM 22 TO 24 SHIM OF EACH SUPPLIED IN THE REPAIR KIT TO SET REQUIRED SPRING LOAD

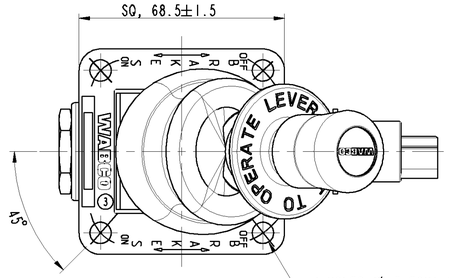
DO NOT SCALE IF IN DOUBT ASK



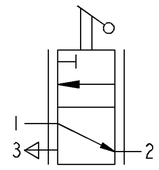
DETAILS OF PORT MACHINING FOR M22x1.5



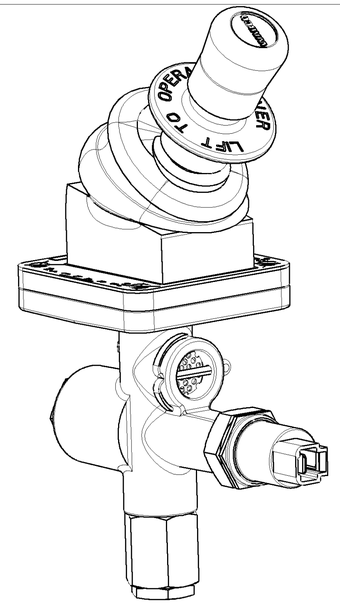
DETAILS OF PORT MACHINING FOR M16x1.5

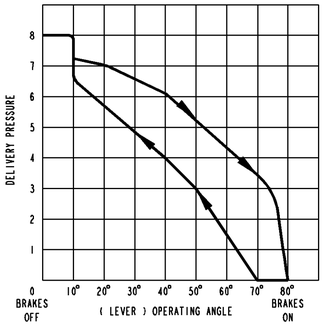


4 HOLES Ø 7 EQUI-SPACED ON PCD 75±0.15



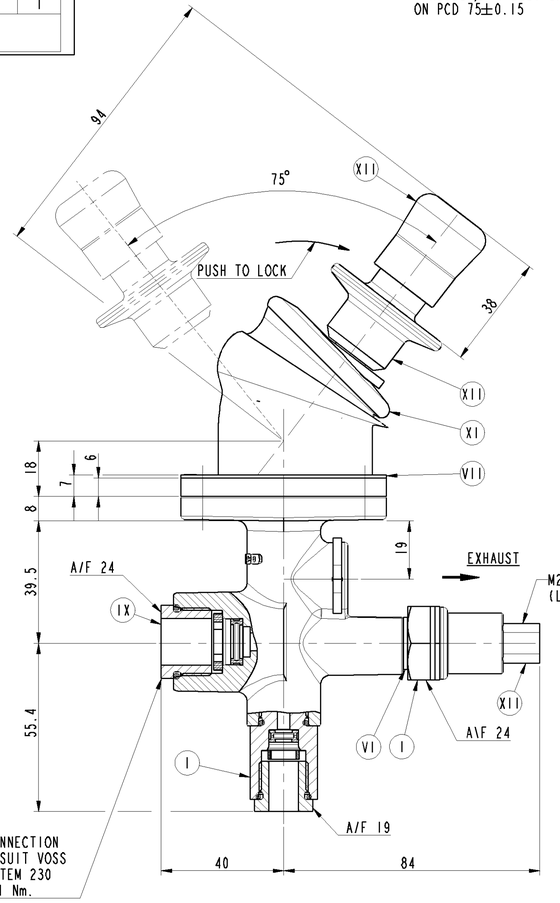
1 - INLET
2 - DELIVERY
3 - EXHAUST
CIRCUIT DIAGRAM

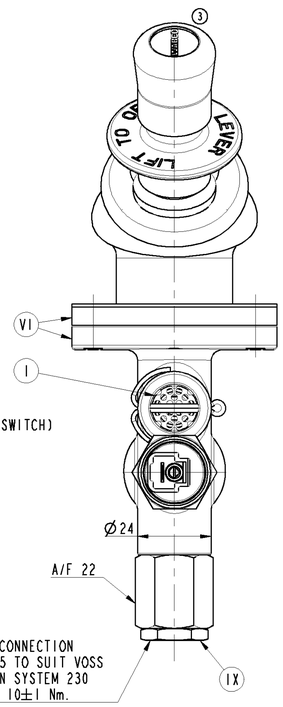




LOW PRESSURE INDICATOR SWITCH

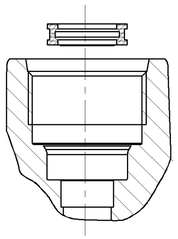
PRODUCT FUNCTION AND RELIABILITY	
CONTACT CLOSING PRESSURE (bar)	5.4±0.5 bar
PSSC	079C
PSSC ISSUE No.	3
DATE	29.03.97
WEIGHT	50





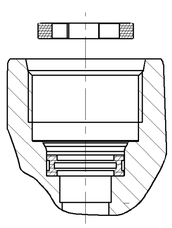
SL.No.	NOTES	
1	PRODUCT FUNCTION AND RELIABILITY	
1.1	PRODUCT SPECIFICATION No. (ISSUE No.New, DATED 31.08.05)	PSSC 198C
1.2	WORKING MEDIUM	AIR
1.3	NORMAL WORKING PRESSURE	8.1 bar
1.4	MAXIMUM WORKING PRESSURE	10 bar
1.5	THERMAL RANGE OF APPLICATION	- 40°C TO +80°C
1.6	CORROSION RESISTANCE	96 HOURS OF NSS
2	WEIGHT	0.42 kg
3	QUALITY COMPLIANCE PLAN TESTS ARE CONDUCTED REGULARLY AS PER CLAUSE No. 11 OF PSSC 198C	
▲ 4	SERVICE LIFE TO FIRST OVERHAUL - 3 YEARS / 3,00,000 KM WHICHEVER IS EARLIAR IF FITTED AS PER RECOMENDED LAYOUT	
5	OPEN PORTS ARE FITTED WITH CLOSURE PLUGS FOR STORAGE AND TRANSIT PURPOSES	

(a)



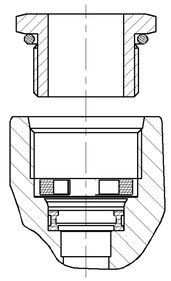
THE SPRING ELEMENT IS INSERTED INTO THE CHAMBER UNDER THE THREAD ROOT OF THE CONNECTION BORE (a) AND (b).

(b)

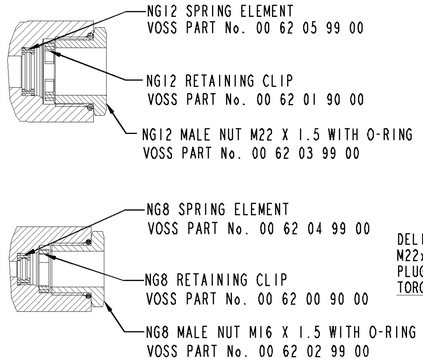


THE RETAINING CLIP IS INTRODUCED SO THAT IT RESTS FLAT ON THE THREAD ROOT (b) AND (c).
THE SPRING ELEMENT AND RETAINING CLIP ARE SYMMETRICAL.

(c)



THE MALE FITTING PRE-ASSEMBLED WITH THE PRE-GREASED O-RING TO SEAL THE THREAD IS SCREWED BY HAND INTO THE TAPPED BORE (c) AND TIGHTENED.



▲ KEY INSTRUCTION
● CRITICAL
◐ MAJOR
NO SYMBOL - MINOR

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

	SIGN	DATE	MATERIAL	--
DRN	TRD	13.03.11	ALTERNATE MATERIAL	--
CHD	RBS	13.03.11	SURFACE PROTECTION	REFER TABLE
APD	SN	13.03.11	RAW PART No.	--

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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN mm.
REMOVE BURRS AND SHARP EDGES FROM FINISHED PARTS.
ALL DIMENSIONS ARE AFTER SURFACE PROTECTION/ TREATMENT
MALE THREAD TO IS 14962 (PART3) 6h : 2001
FEMALE THREAD TO IS 14962 (PART3) 6H : 2001

GENERAL TOLERANCES

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

100 mm

WABCO
AMBATTUR, CHENNAI - 600058, INDIA

SCALE 1:1

GRADUATED HAND CONTROL VALVE

PART No. M306860 GA