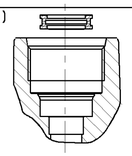
PART No. M306060 GA

ENGINEERING CHANGES			
ECN No.	DATE	REV	SIGN
10369	09.09.06	NEW	ASK
10442 In Port No. 21 and 24, NG12 was NG8. DIN 78.0 ±0.4 at 2 places were 75.5 ±0.4 respectively. Drawing redrawn.	26.10.06	1	ASK
10797 Silencer assembly with related dimensions added. PSSC 203C deleted. PSSC 266C added. DIM 123 and 128.5 deleted. DIM 95.0±0.4, 91.0±0.4, 66.0±0.4, 81.5±0.4 and 81.5±0.4 were 90.5±0.4, 86.5±0.4, 57.0±0.4, 78.0±0.4 and 78.0±0.4 respectively. Drawing redrawn.	29.03.08	2	AGM
11374 In name plate, company name changed from Sundaram Clayton Ltd to WABCO-TVS (INDIA) Ltd. Drawing redrawn.	09.02.09	3	RBS
11587 DIN 128 was M161.2. Drawing pictorially modified inline PDC top cover and body with related dimension (DIM, 36.8±0.5, 40.5±0.6, 17.5, 82.8, 61.3 and 58 were 37.3±0.5, 40.6±0.6, 18, 83, 61.8 and 58.5 respectively). PSSC 226C deleted and PSSC 314C added. Drawing redrawn.	14.08.09	4	AGM
12083 Drawing pictorially modified in line with parts. Drawing template WABCO was WABCO-TVS (INDIA) LIMITED. Drawing redrawn.	16.03.11	5	rbs

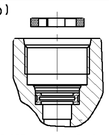
ASSEMBLY PROCEDURE

(a)



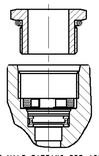
THE SPRING ELEMENT IS INSERTED INTO THE CHAMBER UNDER THE THREAD ROOT OF THE CONNECTION BORE (a) AND (b).

(b)



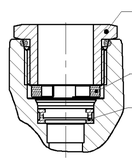
THE RETAINING CLIP IS INTRODUCED SO THAT IT RESTS FLAT ON THE THREAD ROOT (b) AND (c).
THE SPRING ELEMENT AND RETAINING CLIP ARE SYMMETRICAL.

(c)

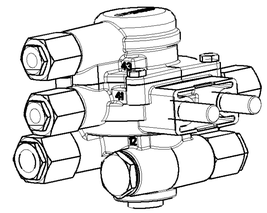


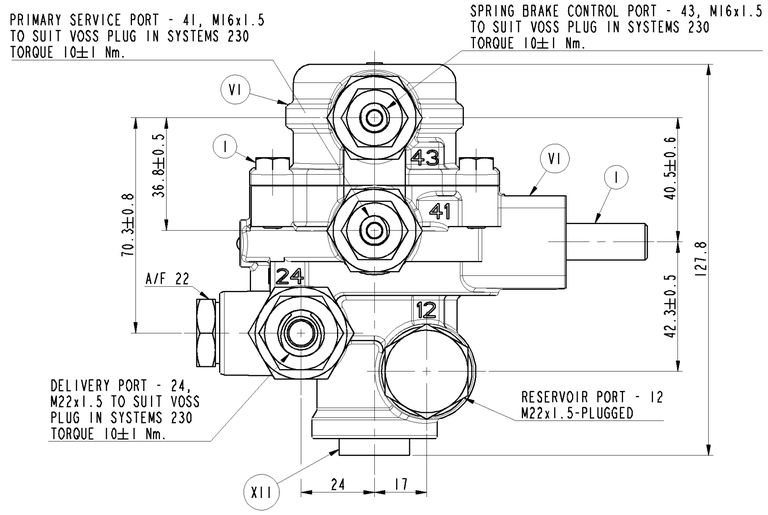
THE MALE FITTING PRE-ASSEMBLED WITH THE PRE-GREASED O-RING TO SEAL THE THREAD IS SCREWED BY HAND INTO THE TAPPED BORE (c) AND TIGHTENED.

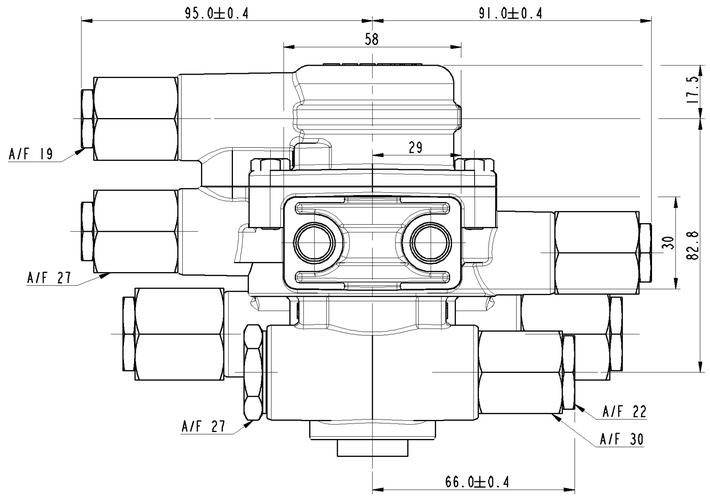
DO NOT SCALE IF IN DOUBT ASK

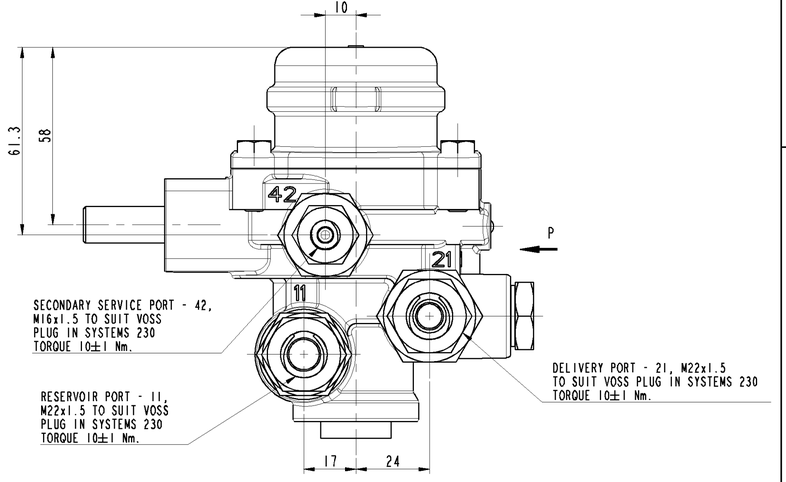


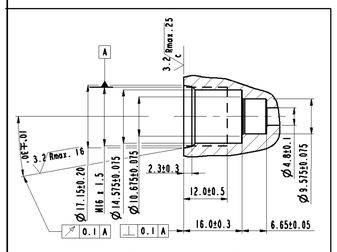
DESCRIPTION	M22x1.5 VOSS PART No.	M16x1.5 VOSS PART No.
MALE NUT WITH O-RING	00 62 03 99 00	00 62 02 99 00
RETAINER CLIP	00 62 01 90 00	00 62 00 90 00
SPRING ELEMENT	00 62 05 99 00	00 62 04 99 00



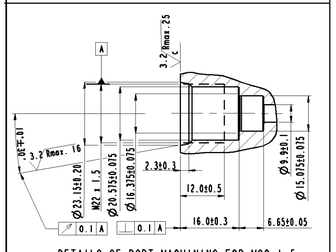






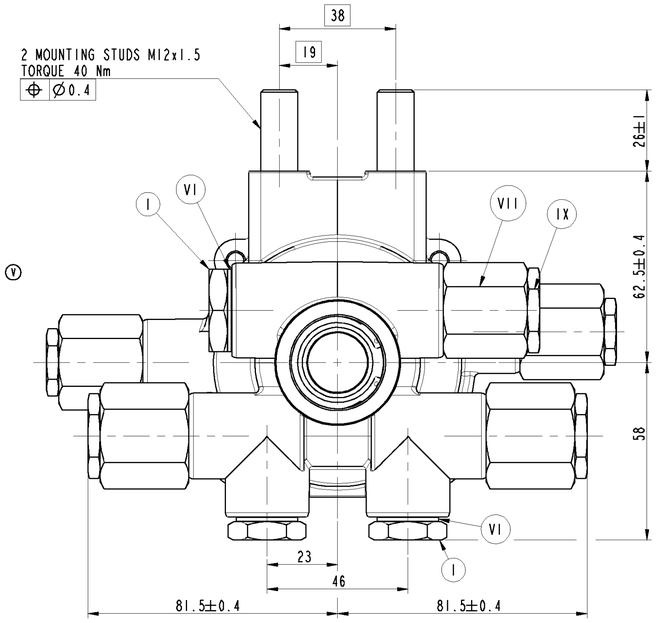


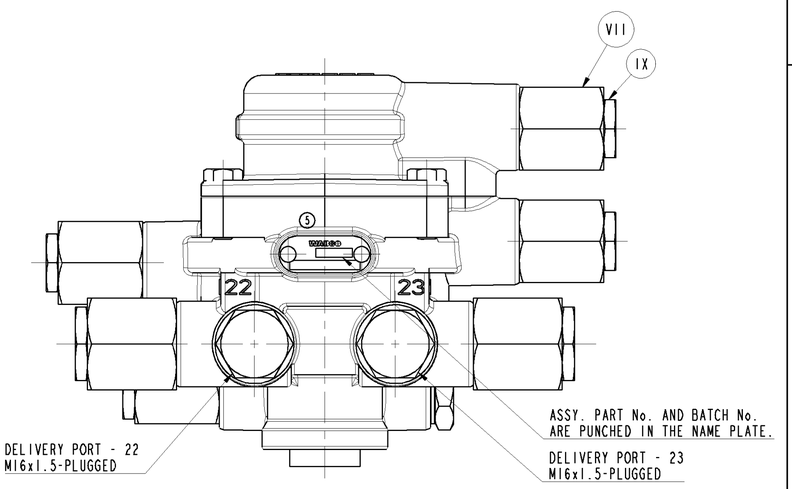
DETAILS OF PORT MACHINING FOR M16x1.5



DETAILS OF PORT MACHINING FOR M22x1.5

SL.No.	NOTES	
1	PRODUCT FUNCTION AND RELIABILITY	
1.1	PRODUCT SPECIFICATION No. (ISSUE No.1, DATE:14.08.09)	PSSC 314C
1.2	WORKING MEDIUM	AIR
1.3	NORMAL WORKING PRESSURE	10 bar
1.4	MAXIMUM WORKING PRESSURE	13 bar
1.5	NORMAL THERMAL RANGE OF APPLICATION	0°C TO +50°C
1.6	EXTREME THERMAL RANGE OF APPLICATION	- 40°C TO +80°C
2	VARIATION IN THE LIMITING PRESSURE DURING NORMAL VEHICLE RUNNING CONDITION WITH SIMULTANEOUS AIR APPLICATION IN PRIMARY AND SECONDARY INLET PORT IS	0.5 bar max
3	WEIGHT	1.72 kg
4	OPEN PORTS/MALE THREADS ARE FITTED WITH CLOSURE PLUGS AND CLOSURE SLEEVE FOR STORAGE AND TRANSIT PURPOSES ONLY	

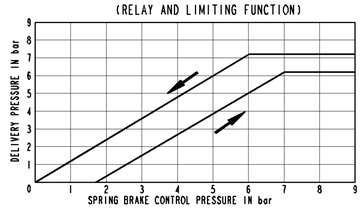




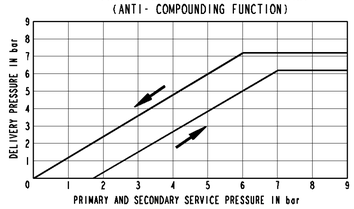
VIEW-P

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	

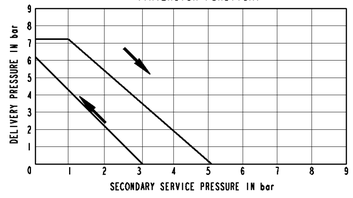
SPRING BRAKE CONTROL Vs DELIVERY
(RELAY AND LIMITING FUNCTION)



PRIMARY AND SECONDARY Vs DELIVERY
(ANTI- COMPOUNDING FUNCTION)



SECONDARY SERVICE Vs DELIVERY
(INVERSION FUNCTION)



● CRITICAL
◑ MAJOR
NO SYMBOL - MINOR

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

CONFIDENTIAL DRAWING

THIS DRAWING IS THE SOLE PROPERTY OF WABCO. IT SHOULD NOT BE COPIED OR COMMUNICATED TO ANY PERSON WITHOUT THE WRITTEN APPROVAL OF WABCO.

© 2006

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)				∠	FORCE, POWER, PRESSURE etc.,
≤ 50	> 50 ≤ 180	> 180 ≤ 400	> 400	(± °)	(± %)
1	2	3	4	3	10

100 mm

WABCO
AMBATTUR, CHENNAI - 600058, INDIA

SCALE 1:1

INVERSION / RELAY VALVE

PART No. M306060. GA