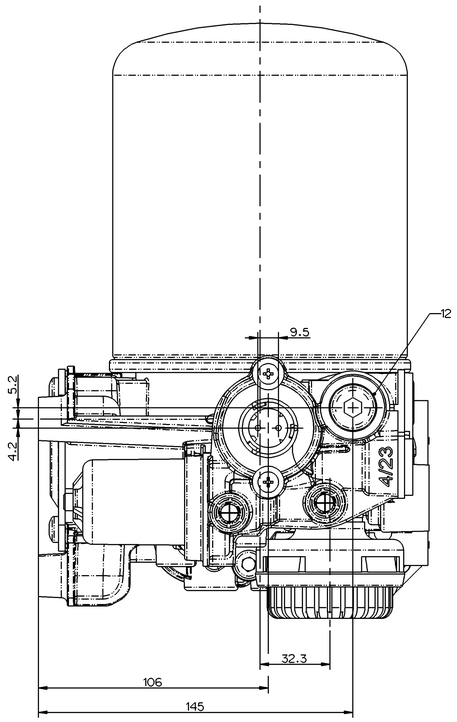
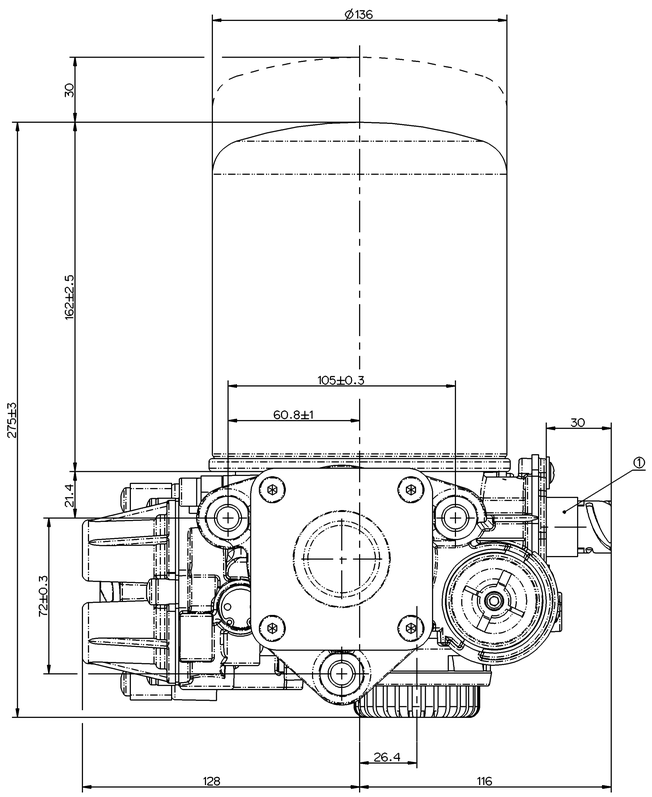
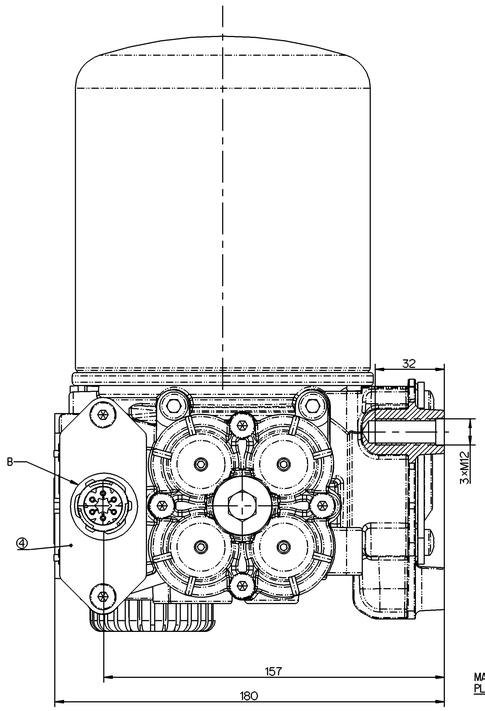
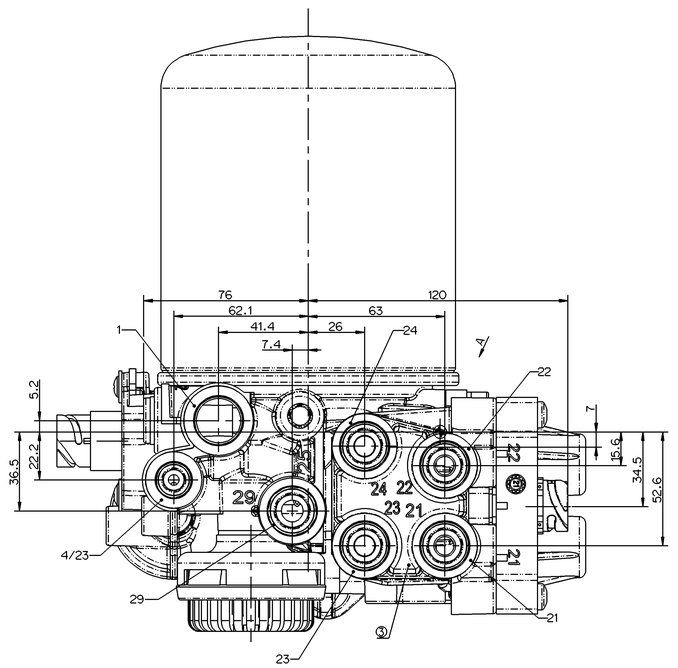
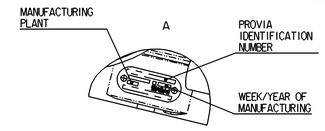
PROVIA P/N	HEATER CONNECTOR ①	CUT OUT PRESSURE (bar)	OPERATING RANGE (bar)	BACK FLOW LIMITING VALVE(bar)	PRESSURE SENSOR ④	⑤	⑥	⑦	MASS
PR05012030		9.3±0.2	0.8-1.4	0.4-0.5	X	X			5.795
PR05012040	DIN 72585-1A2.1-1-Sn/K2	9.8±0.2	0.8-1.4	0.45-0.55			X		5.755
PR05012090		10.8±0.2	0.8-1.4	0.4-0.5				X	5.70

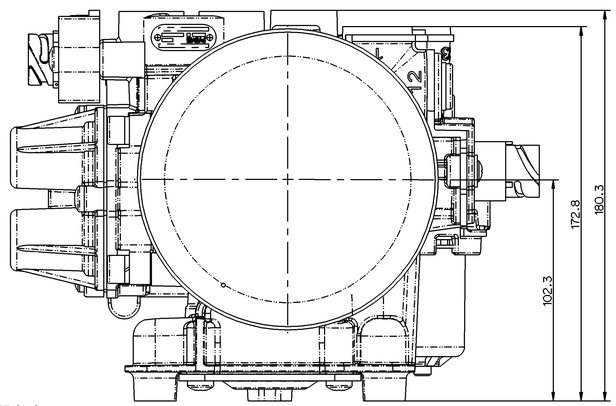


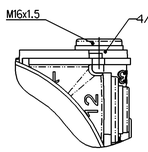


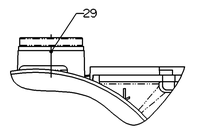








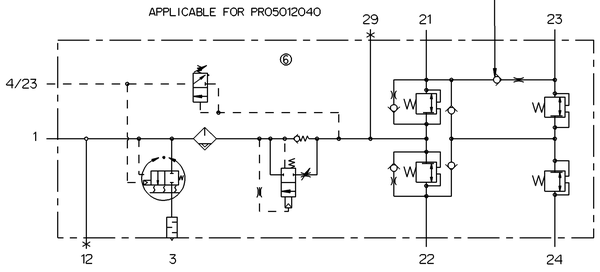




AIR PROCESSING UNIT		
PORT	FUNCTION	THREAD
1	AIR COMPRESSOR INLET PORT	M22X1.5
12	EXTRA AIR INLET PORT	M16x1.5(BLOCK)
21	FROM AIR OUTLET TO BACK SHAFT OF SERVICE CIRCUIT	M22X1.5VOSS NG12
22	FRON AIR OUTLET TO FRONT AXLE OF SERVICE CIRCUIT	M22X1.5VOSS NG12
23	FROM AIR OUTLET TO PARKING CIRCUIT	M22x1.5VOSS NG12
24	FROM AIR OUTLET TO AUXILIARY CIRCUIT	M22x1.5VOSS NG12
3	AIR OUTLET	
4/23	CONTROLLING PORT THAT IS CONNECTED WITH AIR COMPRESSOR	M16x1.5VOSS NG8
29	FROM AIR INLET TO AIR SUSPENSION	M22x1.5VOSS(BLOCK)

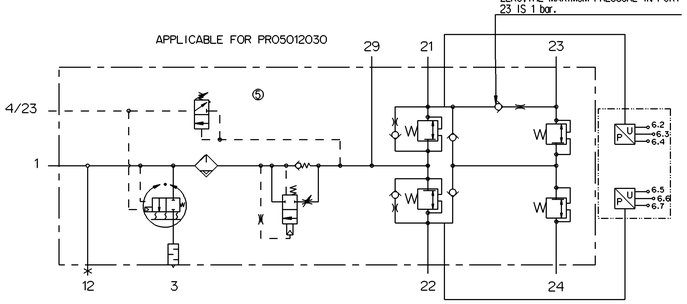
WHEN THE PRESSURE IN PORT 21 IS ZERO, THE MAXIMUM PRESSURE IN PORT 23 IS 1 bar.

APPLICABLE FOR PR05012040



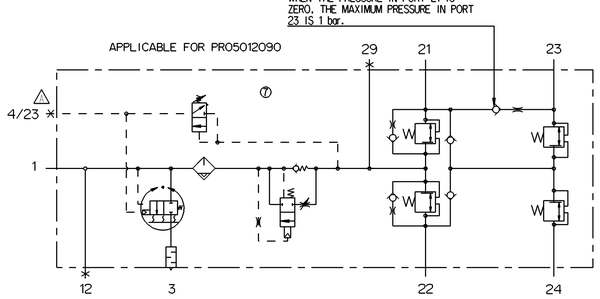
WHEN THE PRESSURE IN PORT 21 IS ZERO,THE MAXIMUM PRESSURE IN PORT 23 IS 1 bar.

APPLICABLE FOR PR05012030

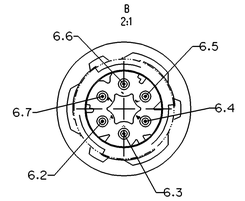


WHEN THE PRESSURE IN PORT 21 IS ZERO, THE MAXIMUM PRESSURE IN PORT 23 IS 1 bar.

APPLICABLE FOR PR05012090



B
2:1



21			22		
6.2	6.3	6.4	6.5	6.6	6.7
OUTPUT	+5VDC	-0V	OUTPUT	+5VDC	-0V

TECHNICAL DATA

1.WORKING MEDIUM: COMPRESSED AIR

2.MAXIMUM WORKING PRESSURE:Pe MAX.=13bar

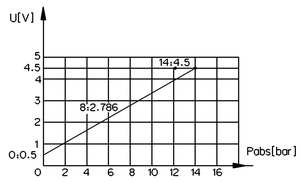
3.DYNAMIC PRESSURE OF SAFETY VALVE:13.0$^{+4}_{0}$ bar

4.THERMAL RANGE OF CONTINUOUS APPLICATION:-40°C...+65°C

5.RESISTANCE TO HEAT:+80°MAX

6.HEATING VOLTAGE: 24V. CUT-IN TEMPERATURE:7±6°C
CUT-OFF TEMPERATURE: 29.5±3°C

7.THE OTHER TECHNICAL SPECIFICATIONS MEET WITH: QC/T37QC/T996



V_o=(0.2857P+0.5)/5×Vin(VDC)
V_o:INPUT VOLTAGE
P:INPUT PRESSURE(bar)
Vin: MAINS INPUT

CIRCUIT TECHNICAL PARAMETERS (bar)				
CONNECTING PORT	21	22	23	24
OPENING PRESSURE	$6.5^{0}_{-0.3}$ (COMPLETELY OPEN)	$6.5^{0}_{-0.3}$ (COMPLETELY OPEN)	$7.0^{0}_{-0.3}$	$6.5^{0}_{-0.3}$
STATIC CLOSING PRESSURE	0	≥5.0	0	≥5.0
	≥5.0	0	≥5.0	≥5.0
	≥5.0	≥5.0	0	≥5.0
	≥5.0	≥5.0	≥5.0	0

REMARKS: WHEN PORTS 21,22 ARE BY PASS INLET PORTS,THE OPENING PRESSURE IN PORTS 21 AND 22 IS ZERO

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General Specification: ISO 8015, JED-334-1, Size ISO 14405-LP
Further Technical Data: Product Specification
Doc. Code=0355 | Sheets: 1 To 12
General Tolerances JED-261

Class 1)	Range of Nominal Dimensions (in mm)					
	≥ 50	> 50 ≤ 180	> 180 ≤ 400	> 400	
Fine	±0.5	±1.0	±1.5	±2	
Medium	±1	±2	±3	±4	±3°
Coarse	±2	±3.5	±5	±6.5	

Tapped Holes acc. JED-386
1) Tolerance Class Applied Crossmarked

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Date	Signature
Drawn	
2023-08-03	Murugan
Checked	
2023-08-03	Pawlowski

Dimensions in mm
Mass / kg | Scale 1:1 | Material No.
Size A 0 | CAD System CREO
Date of first issue: 2023-07-20
Doc.Code 053 | Language EN | Sheet 1/1
EO-No. - | Revision - | Techn. Resp. - | Replacement for -

Provia
AIR PROCESSING UNIT
PRO 501 203 0
100mm