

EASYMOUNT

Compressor Handbook



vivid.

Operating Manual

**Your Air Compressor is a precision engineered product.
By following these simple steps you will ensure years of trouble free use.**

Parts & Service are available from your Vivid dealer.

It is important to quote Model, Type & Serial Number in all communications.

The substitution of parts not manufactured or approved by Vivid can impair performance, service life and create potential mechanical or personnel hazards and will invalidate your warranty.

Vivid reserves the right to modify the contents of this operating booklet without notice and the information is in no way binding on the company.

Fig 6

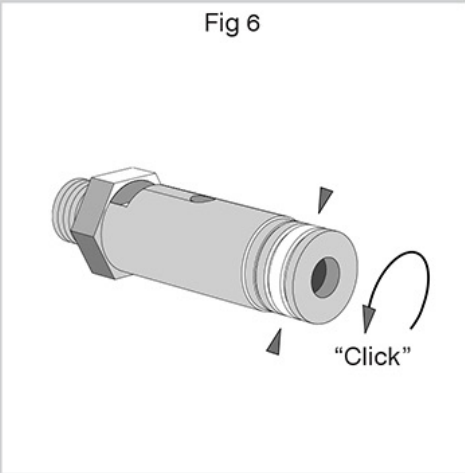


Fig 7

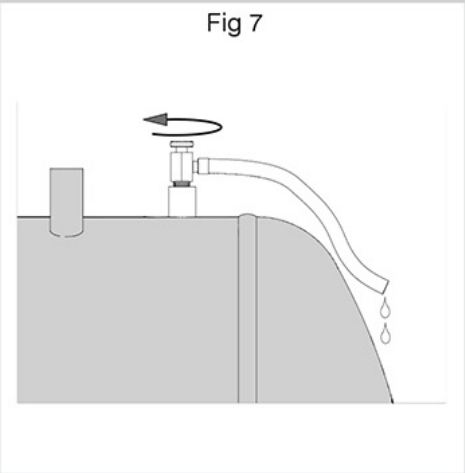


Fig 8

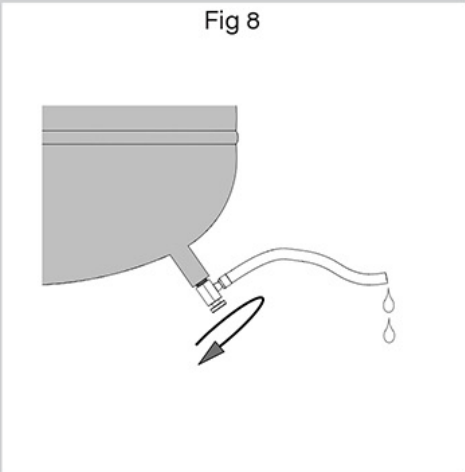
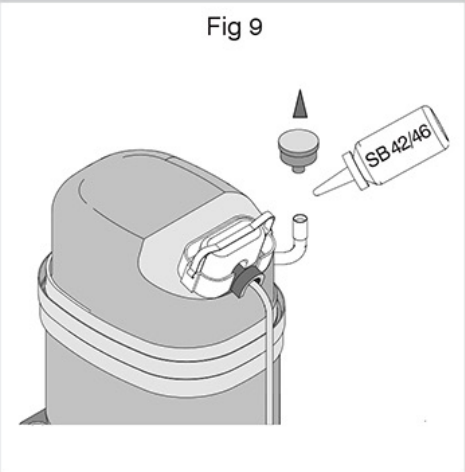


Fig 9



Warranty

Provided the operating instructions have been followed and the compressor has been properly maintained compressors are guaranteed against faulty workmanship for a period of 1 year.

The air receiver is guaranteed for 5 years.

The guarantee does not cover damage by misuse, incorrect parts or service.

Fig 1



Fig 2

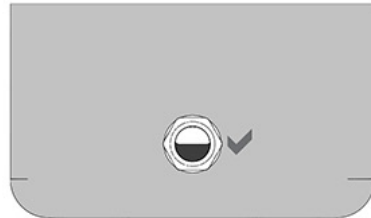


Fig 3

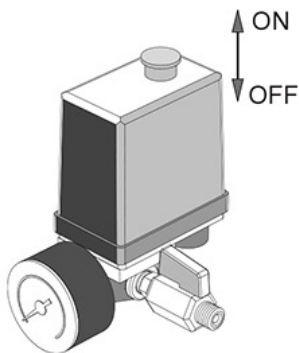


Fig 4

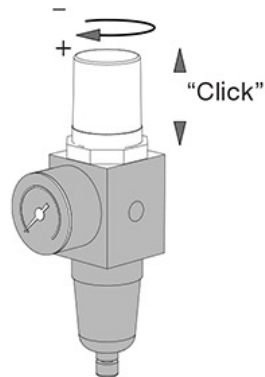
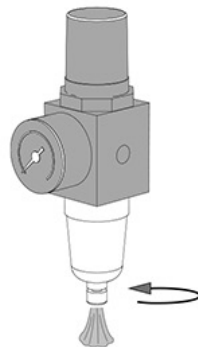


Fig 5



Safety Precautions

What you **must** do

- Read these instructions before using your air compressor.
- Ensure the compressor has been installed, electrically connected and piped in by a properly qualified person.
- Ensure the compressor is kept upright at all times.

What you **must not** do

- Do not attempt any maintenance on the compressor until it has been isolated from the power supply.
- Do not attempt any work on the compressor until the air receiver and pipe work systems are depressurised.
- Compressed air is dangerous if misused and can prove fatal. Avoid any bodily contact with compressed air.
- During operation the motor will become quite hot to the touch. Avoid contact to prevent burns. At no time must the oil temperature be allowed to exceed 100°C.
- Never tamper with the pressure relief valve.
- Never change the oil when the compressor is still warm. Take necessary precautions to avoid contact with the skin.

SB42/46 compressor oil does not contain hazardous components and is not required to be labelled dangerous, according to the Classification, Packaging and Labelling of Dangerous Substances regulation: [CPL]Regulation 1984

Siting The Compressor

What you **must** do

- Provide adequate protection from the weather.
- Site the compressor level in both planes.
- As larger models are heavy, ensure the surface has sufficient load bearing capacity.
- Allow access for maintenance all around the compressor.
- Site in a dry area, avoiding damp or humid conditions. The site must be dust free, well ventilated and have a cool ambient temperature. 35°C should be regarded as the maximum allowable ambient.

What you **must not** do

- Enclose the compressor or allow hot air generated by the motor to re-circulate around the compressor.

Electrical Connections

All 220/240 volt compressors, except Model 225/1000 are supplied with a moulded plug in accordance with national standards. Never remove the moulded plug.

Wired in accordance with European Standard –

Blue = neutral Brown = live Yellow & Green Stripe = earth

Operation

Refer to exploded parts diagrams and illustrations when reading this section.

Oil level CHECK OIL LEVEL BEFORE USE

Model 35/20

- Remove oil filler plug - *see fig 1*
- Pour oil into motor until correct level is reached - indicated on the oil sight glass, approx 500cc - *see fig 2*
- Refit the oil filler plug - but do not over-tighten.

Note!

Always use SB42/46 compressor oil. Failure to do so will invalidate your warranty.

Starting & Stopping

Plug the compressor into an outlet socket of nominal voltage and fitted with a 13amp fuse.

Switch the compressor on using the red button on top of the pressure switch. Pull knob up to switch on, push down to switch off – *see fig 3*.

The compressor will start running and automatically switch off at the preset pressure.

As air is used the pressure drops and the motor will restart at the preset pressure. Approx 2 Bar differential.

Note!

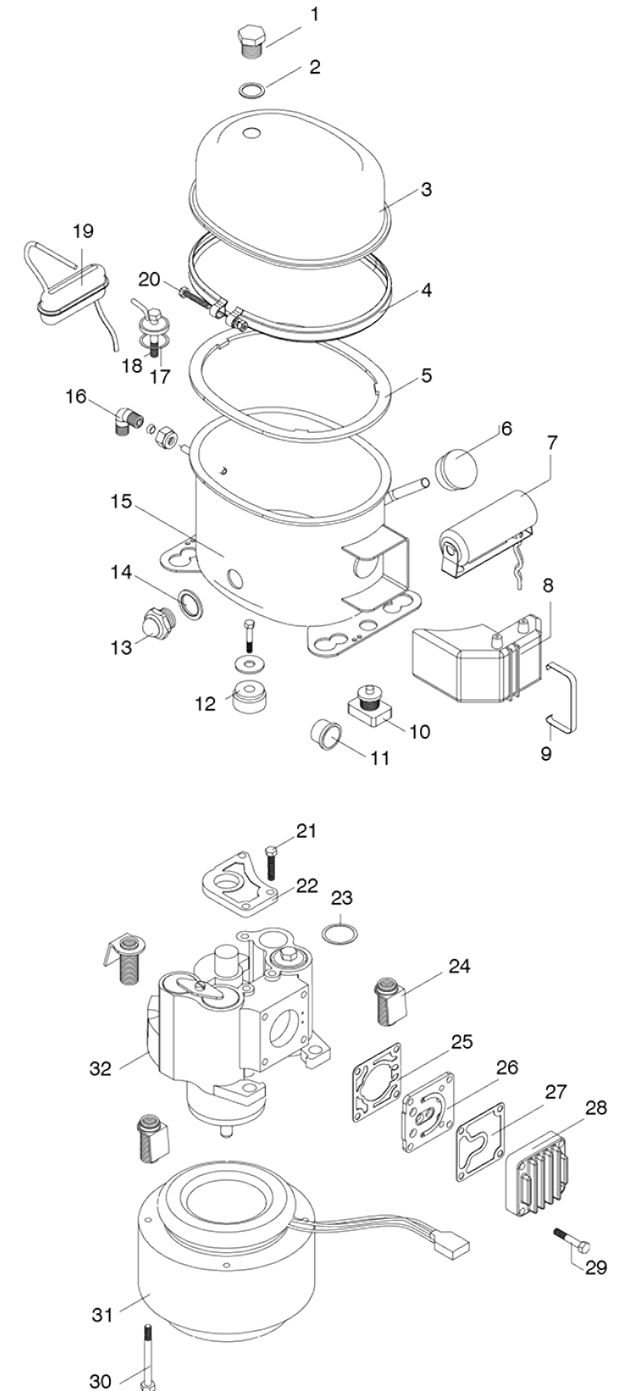
Never tamper with the pressure switch settings, these are factory set.

Adjusting Outlet Pressure

Use the filter regulator to adjust the outlet pressure. The 40mm pressure gauge indicates the selected pressure. To increase line pressure rotate the black knob on top of the filter regulator in a clockwise manner, to decrease turn anti clockwise. It is possible to lock the setting by pushing the knob down until it “clicks” home – *see fig 4*.

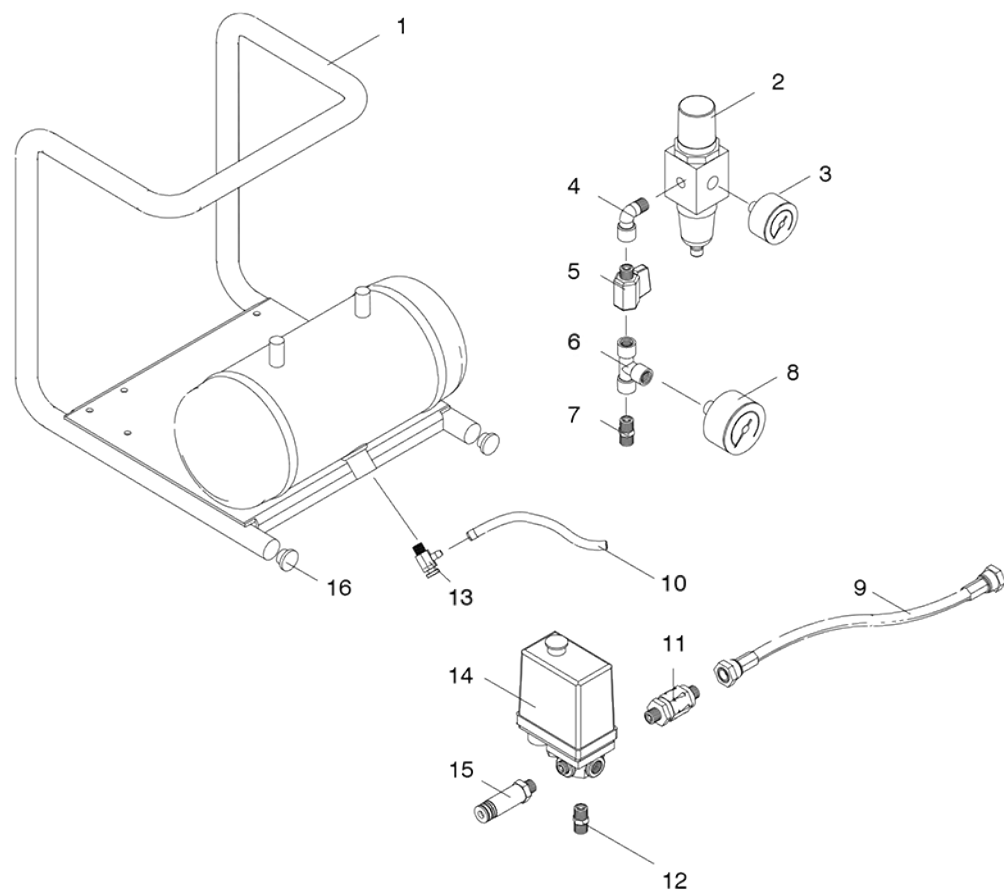
Ref No.	Description	Part no.
1	Oil filler plug	BPB0079
2	Oil filler plug seal	BPB0098
3	Top casing	BPB1058
4	Closing ring	BPB1059
5	Sealing gasket	BPB1057
6	Air intake filter	BPB1003
7	Capacitor - 220/240v	BPB1051
7	Capacitor - 110v	BPB0137
8	Terminal box cover	BPB1047
9	Terminal box cover clip	BPB1048
10	Start relay - 220/240v	BPB1053
10	Start relay 110v	BPB0138
11	Overload 220/240v	BPB1052
11	Overload - 110v	BPB0139
12	Mounting set (4)	BPB1055
13	Sight glass	BPB1009
14	Sight glass seal	BPB1010
15	Bottom casing	BPB1056
16	Outlet elbow	BPB0065
17	Delivery pipe gasket	BPB1042
18	Delivery bolt	BPB1039
19	Delivery pipe	BPB1041
20	Sealing ring bolt/nut	BPB1060
21	Bearing bolt (3)	BPB1028
22	Bearing	BPB1029
23	Gasket	BPB1044
24	Mounting spring (3)	BPB1038
25	Valve plate gasket	BPB1033
26	Valve plate	BPB1034
27	Cylinder head gasket	BPB1035
28	Cylinder head	BPB1036
29	Cylinder head bolt (4)	BPB1037
30	Stator bolt (4)	BPB1032
31	Stator - 220/240v	BPB1031
31	Stator - 110v	BPB0334
32	Motor block	BPB1030

Motor / Pump Parts: 35 model



Ref No.	Description	Part no.
1	4 litre vessel	BPB1094
2	Filter regulator	BPB1080
3	Regulator gauge	BPB1077
4	1/4" Male/Female elbow	BPB1139
5	On/off valve	BPB1079
6	1/4" Male/Female/Female Tee	BPB1109
7	1/4" Male / 1/4" Male adaptor	BPB1078
8	Vessel pressure gauge	BPB1081
9	200mm delivery pipe	BPB1102
10	250mm drain tube	BPB0414

Ref No.	Description	Part no.
11	Non-return valve	BPB1086
12	1/4" Male / 1/4" Male adaptor	BPB1078
13	1/4" Drain tap	BPB1138
14	Pressure switch	BPB1074
15	1/4" 10 Bar relief valve	BPB1084
16	Handle insert	BPB0078



Routine Maintenance

Draining the Air Receiver

Drain condensate from air receiver at a pressure of no more than 2 Bar. Slowly open the drain tap provided to allow water to flow out – *see figs 7 & 8*. Close drain tap when all water has drained off. Do not overtighten, this will damage the tap seal. Automatic drains where fitted do not require draining, however the drain bottle will require emptying.

Draining the Filter/Regulator Unit

Slowly open the drain screw provided to allow water to flow out – *see fig 5*. Close the drain screw when all water has drained off.

Note !

The waste condensate must be handled in accordance with national environmental rules.

Check Pressure Relief Valve

Ensure the air receiver is not pressurised. Unscrew the knurled end of the pressure relief valve until an audible "click" is heard. Retighten without using excessive force – *see fig 6*.

Technical

The compressor has a maximum 50% duty cycle. The motor must never be allowed to run continuously otherwise it will overheat and may become damaged.

Do not ignore air leaks. All air connections must be leak free to prevent the compressor from over heating.

The compressor is fitted with a thermal overload. In the event of excessive temperature the motor will switch off. After about 50 minutes when the motor has cooled it will automatically reset.

Note !

You must find the cause of the overload and rectify this before continuing to use the compressor.

Check for -

- Drain tap not closed properly
- Air leaks on the pneumatic fittings
- Compressor not the correct size for the work load

Preventative Maintenance

Operation	Daily	Weekly	Monthly	Annually
Drain air receiver < 15 Litres	•			
Drain air receiver > 15 Litres		•		
Drain filter regulator			•	
Check oil level		•		
Change oil				•
Replace air intake filter				•
Replace filter regulator element				•
Check pressure relief activation				•

Above are to be considered minimum frequency

Technical Specification

Type 35 Pump Specification		
Voltage	220/240	110
Motor Kw / Hp	0.37 / 0.5	0.44 / 0.5
Frequency Hz	50	60
Amps	2.4	6
Watts	340	446
Displacement l/min	50	60
FAD@ 6 Bar	33	39
Type 75 Pump Specification		
Voltage	220/240	110
Motor Kw / Hp	0.5 / 0.5	0.64 / 0.5
Frequency Hz	50	60
Amps	3.6	7.8
Watts	500	733
Displacement l/min	78	94
FAD@ 6 Bar	54	64

Wiring Diagram

35 Pump unit

