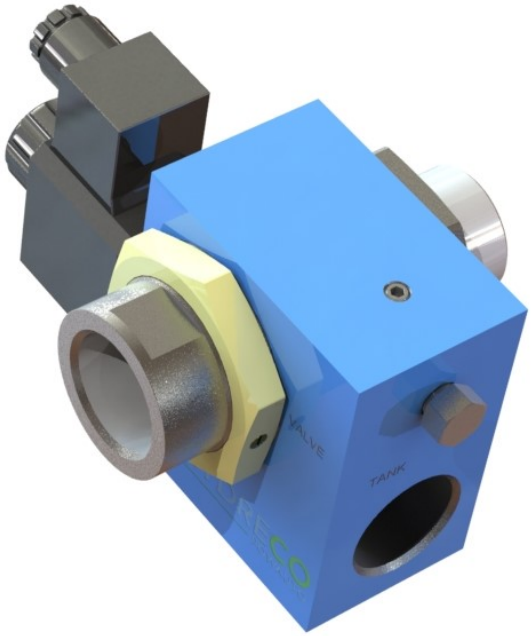
Technical Data Sheet



PATENT PENDING
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VA40
HOSE BURST VALVES

The hose burst valve is an inline safety valve that prevents the tipper body lowering in the event of a hose rupture.

The device uses an adjustable flow dependent check valve (also known as a velocity fuse), in a patented arrangement, that is "de-sensitised" by the use of a cartridge valve with a separate tank line, they work in unison to provide reliable hose burst protection. In normal operation the valve provides faster flow rates on body lowering than all other designs. A slow lower function is achieved by activation of the cartridge valve only (there is no need for a slow lower function on the tipping valve).

A robust coupling sleeve connects the device to the hoist and pressure hose and allows for the best location of ports and hoses during installation.

This safety device complies with VSB6 version 3.2 and to the Australian Standard AS1418.8 Section 4.4.4 and is required to be installed in accordance with the Cranes, Hoists and Winches guidelines.

Product Features

- **Low Pressure Drop**
  Equates to faster lower speeds under normal conditions. Equals more loads/work per day.
- **Flow Dependent Check Valve**
  Hose burst protection, adjustable to suit individual hoist requirements. More tolerant to contamination than all other designs. Simple and reliable in operation.
- **Solenoid Valve or Pneumatic Valve**
  For controlled safe lowering in a hose burst condition. Extra flow capacity on descent in normal operation. Ability for slow lower function.
- **Low Flow Bleed Screw**
  For field emergency safe lowering when power not available to operate the solenoid.
- **Body Up Alarm Ready**
  A port is provided (plugged from factory) for the fitment of a pressure switch.
- **Auxiliary Tank Line**
  Multi-purpose for faster lowering, slow lower function and safe lowering in hose burst condition. Better for the environment, zero oil spillage during safe lowering. Means the truck is back working again quicker.

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

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Technical Data Sheet

VALVE DESIGNATION CODES

40 Series Valve

VA 40 CG A M

Identifier
VA = Valve

Valve Series
40 = Hose Burst

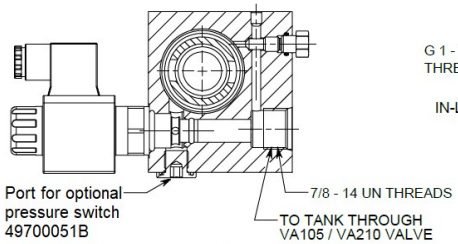
Cylinder Port
C = 1 5/16" UNO
G = 1" BSPP

Valve Port
G = 1" BSPP

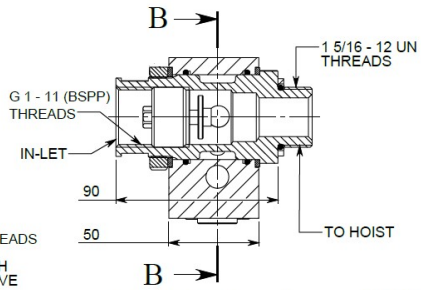
Slow Lower Option
Omit = No slow lower
D = Detent
M = Momentary

Auxiliary Line Input
A = 12V
B = 24V
P = Pneumatic Pilot
(4-15 Bar)

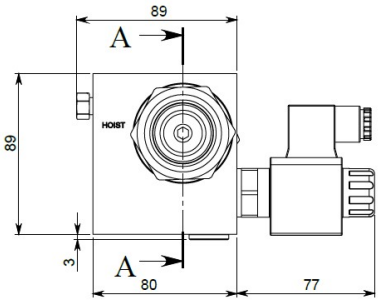
DIMENSIONS



SECTION B-B



SECTION A-A



VA40CGA SHOWN

Technical Specifications		VA40CG#	VA40GG#
Flow Rate	L/min	250 (200 + 50)	250 (200 + 50)
Cylinder Port		1 5/16" UNO	1" BSPP
Valve Port		1" BSPP	1" BSPP
Auxiliary Tank Port		7/8" UNO	7/8" UNO
Max Working Pressure	Bar/psi	350 / 5000	350 / 5000
Weight	kg	1.9	1.9

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

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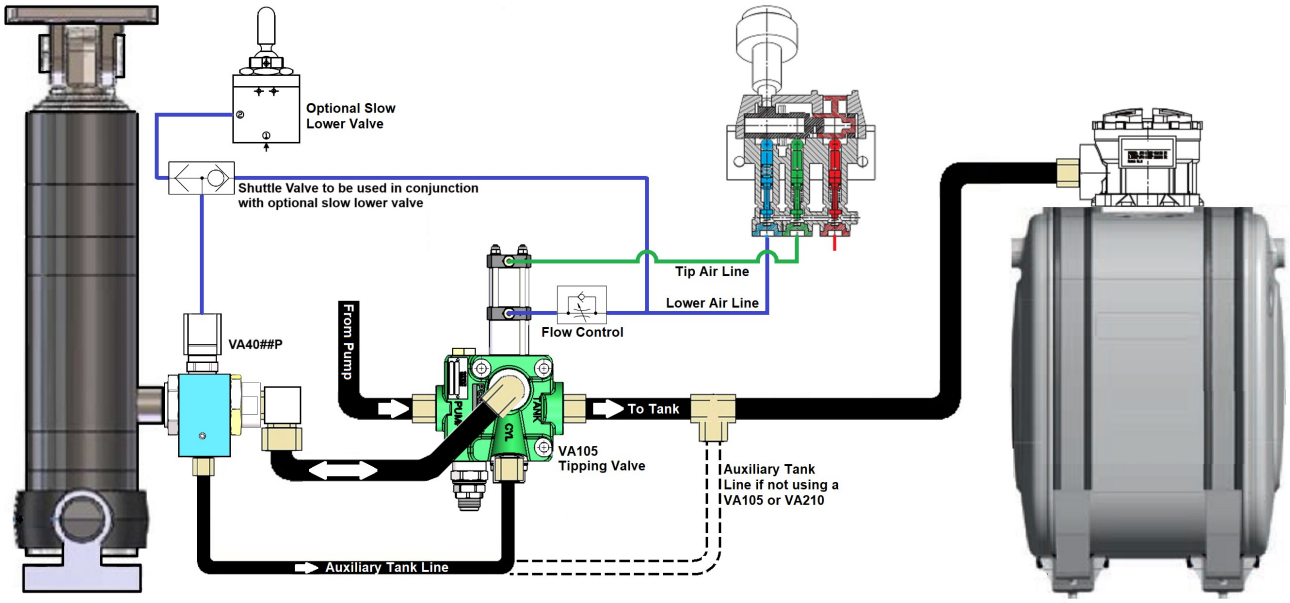
Technical Data Sheet

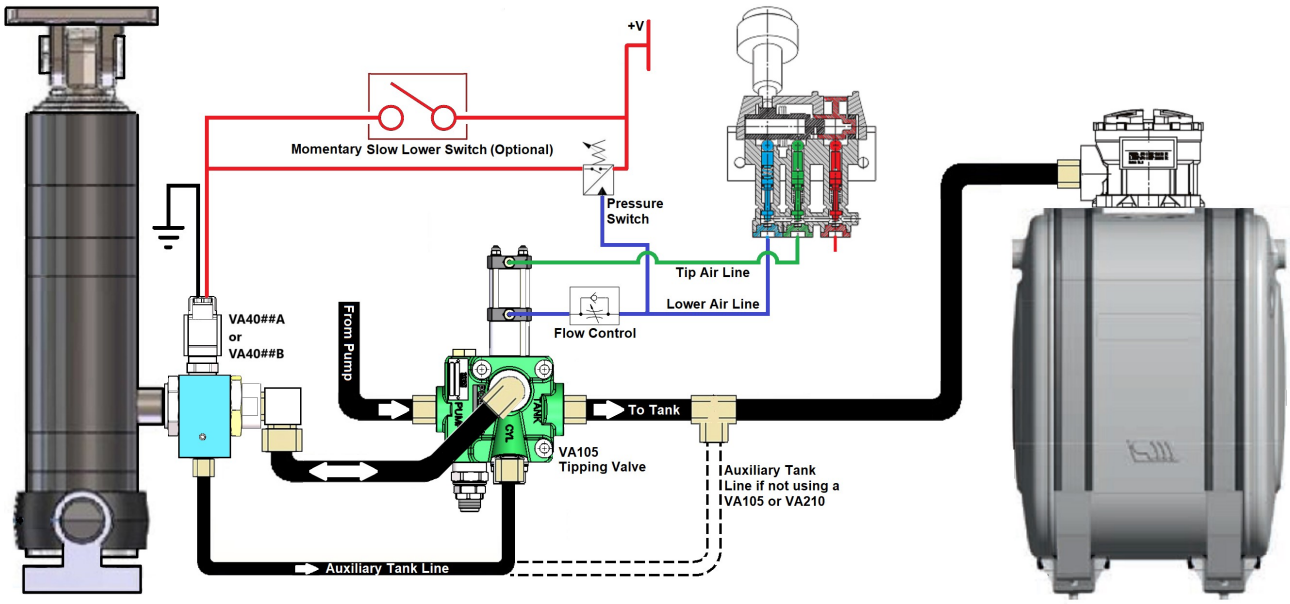
TYPICAL INSTALLATION—MANUAL AIR CONTROL

Note: The VA105 shown in the installations is from serial number AG8130 , VA210 from serial number AG8130 can also be used. An older valve can be converted, consult Hydreco for the necessary modifications.

Pneumatic Activation of Auxiliary Line (4-15 Bar)



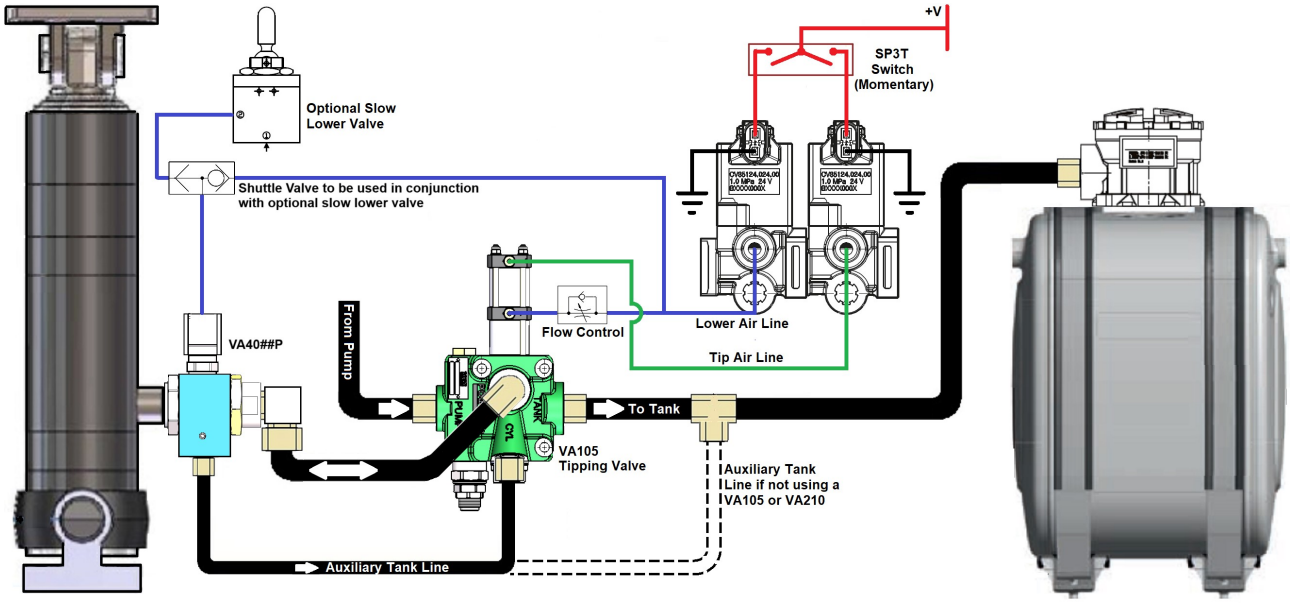
Solenoid Activation of Auxiliary Line



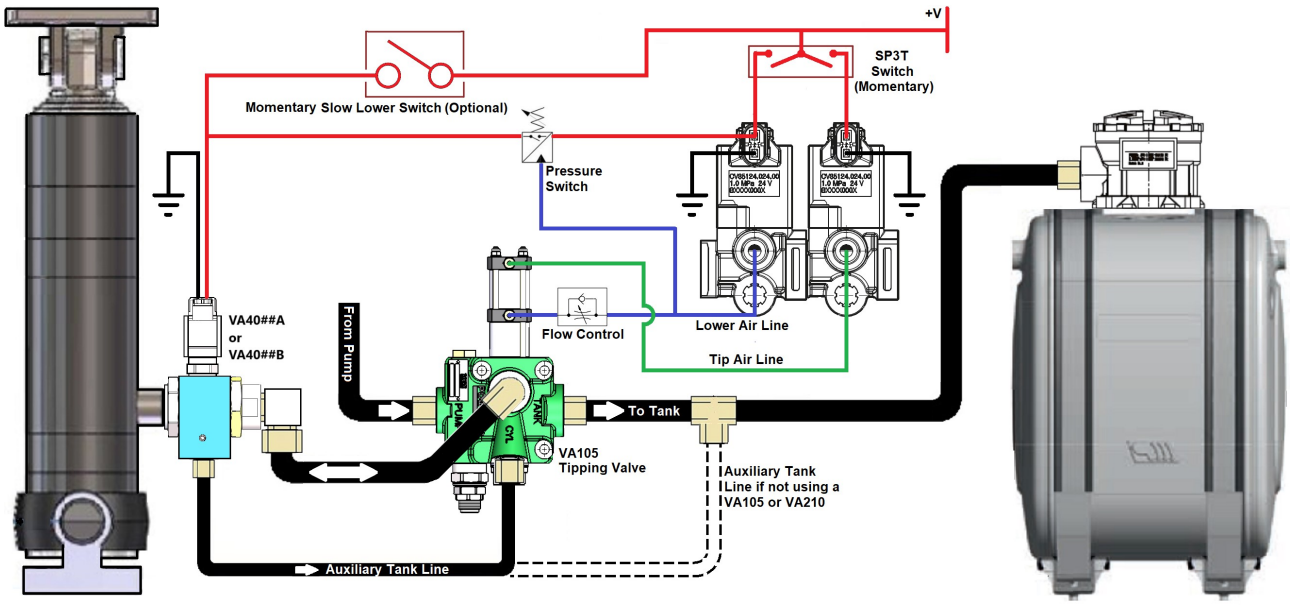
Technical Data Sheet

TYPICAL INSTALLATION—SOLENOID CONTROL

Pneumatic Activation of Auxiliary Line (4-15 Bar)



Solenoid Activation of Auxiliary Line



Notes: In normal lowering, oil returns through both tank lines. The extra flow in the auxiliary line eliminates shut off, always ensuring safe body lowering. This provides a higher flow than through the check valve alone. Therefore, the lowering speed is increased.

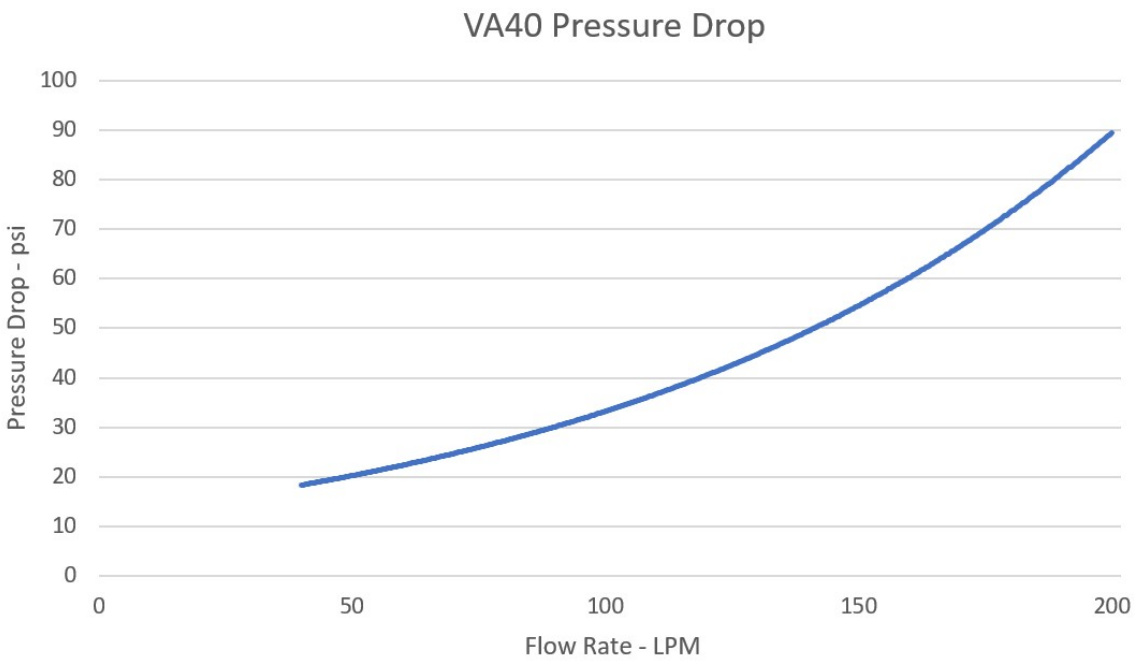
Technical Data Sheet

For emergencies a manual bleed screw is provided on the valve body. This allows a small amount of oil to flow through the auxiliary tank line.

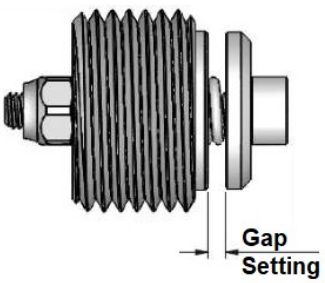
Slow lower (if required) is achieved by the optional slow lower valve/rocker switch—this activates the cartridge valve only with oil flowing through the auxiliary tank line.

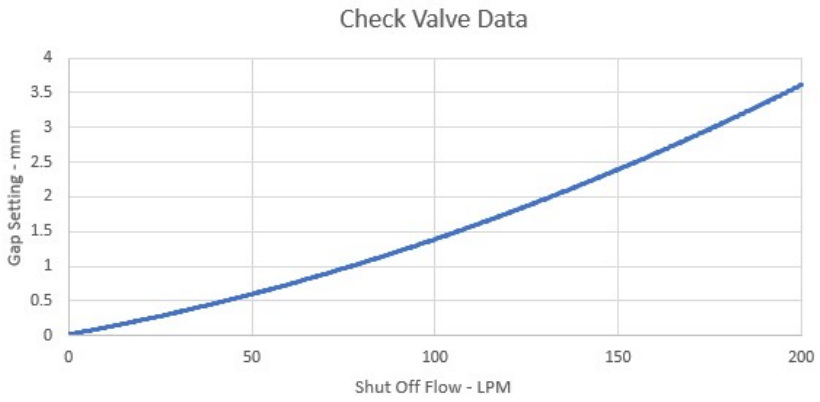
Body Up Alarm Ready

Installation of pressure switch (4970005 1B) to the valve body will provide the required signal for the body up alarm.



Pressure drop curve from Hoist to tank, gap set at 3.4mm.





Shut off flow to be determined by maximum flow under normal lowering plus 30%.

Doc: VA40—08/23