

Bladder and double valve pumps

Groundwater monitoring pumps

A range of pneumatic (gas-driven) low flow sampling pumps.

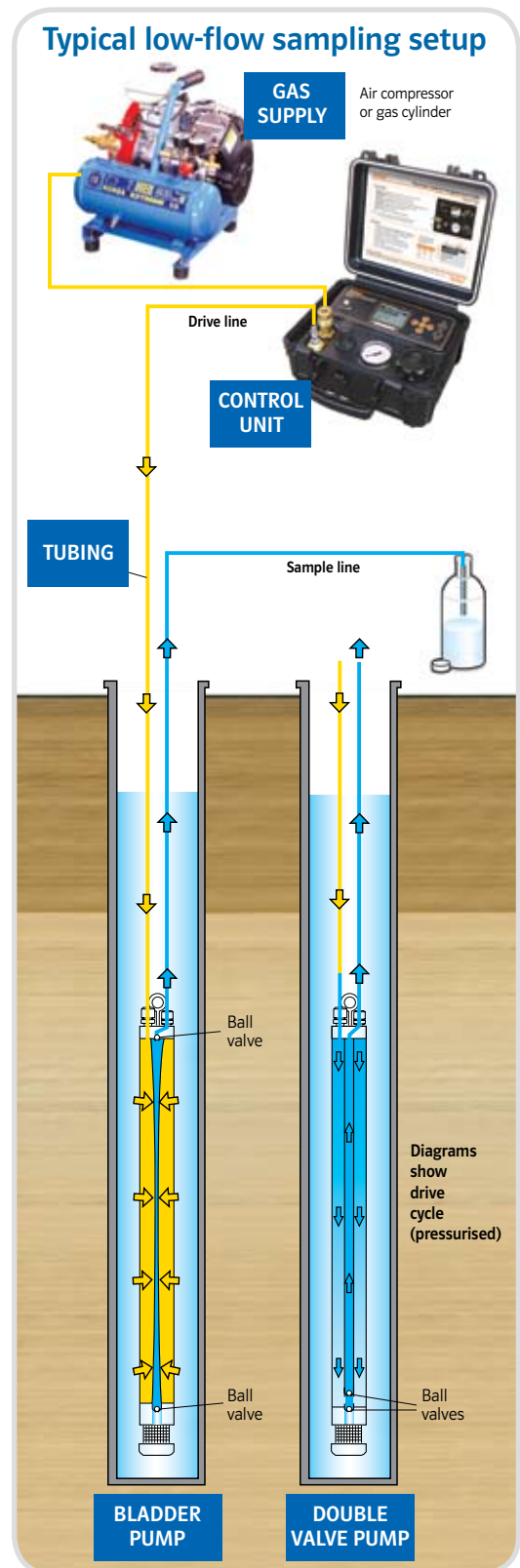
Integra™ Bladder pumps

- Ideal for VOC sampling
- Teflon or LDPE bladders



Double valve pumps

- Higher flow rates
- Operates up to 150 metres



Bladder and Double Valve Pumps

Groundwater monitoring pumps

Selection guide

	BLADDER PUMPS			DOUBLE VALVE PUMPS			
Pump type	Standard PVC	Standard SS	Mini SS	Standard PVC	Standard SS	Mini SS	Micro SS
Product code	S407/42P	S407/42S	S407/25SL	S408/42P	S408/42S	S408/16S	S408/uDVP *
Nominal size mm	Ø42 x 600	Ø42 x 600	Ø25 x 600	Ø42 x 600	Ø42 x 600	Ø16 x 300	Ø10 x (*see note)
Material	PVC	316SS	316SS	PVC	316SS	316SS	316SS/Teflon/LDPE
Maximum depth	30m †	150m †	150m †	30m ††	150m ††	150m ††	70m ††
Drop tube option	Y	Y	Y	Y	Y	Y	N
Pump volume	200 ml	200 ml	110 ml	450 ml	450 ml	30 ml	N/A
Example flow rates l/min ‡	0.8	0.8	0.45	0.6	0.6	0.4	0.15
Drive connection	1/4" (6mm) Compression	1/4" (6mm) Compression	1/4" (6mm) Push-Fit	1/4" (6mm) 3/8" (10mm) Compression	1/4" (6mm) 3/8" (10mm) Compression	1/4" (6mm) Push-Fit	Air coupling
Sample connection	1/4" (6mm) 3/8" (10mm) Compression	1/4" (6mm) 3/8" (10mm) Compression	1/4" (6mm) Push-Fit	1/4" (6mm) Compression	1/4" (6mm) Compression	1/4" (6mm) Push-Fit	-
Bladder material	LDPE	Teflon	Teflon	-	-	-	-
Tether point	Y	Y	Y	Y	Y	N	N

† Maximum depth to pump, can be extended using drop tube.

†† Maximum depth to water level. Pump or drop tube can be positioned deeper.

‡ Flow rates shown at 30 metres depth, with water level at 15 metres.

* Micro Double Valve Pumps are available in 27m, 42m and 73m factory assembled lengths. When ordering, product codes should include the required length - eg S408/uDVP27.

Control units

S464/ECU125

125 psi/auto & manual / 85m max lift / 95 user set memory / compact (23 x 26 x 12 cm)



S466/ECU250

250 psi / auto only drive unit / 85 to 150m lift. (36 x 28 x 15 cm)



Gas supply

12V Compressor

(S407-12VDC) (116 psi) / 30m max

Petrol powered compressor

(S407/HEC3) (145 psi) / 85m max

Use **Gas cylinders** (N₂ or CO₂) for simplicity or for greater depths (not supplied).



Tubing

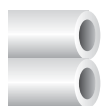
Solinst pumps and fittings are designed to be used with 2 standard tubing sizes. Available in high quality LDPE or as Teflon-lined LDPE.



3/8" (10mm) tubing
(S-LD38 or S-LD38TL)
9.5mm OD x 6.4mm ID



1/4" (6mm) tubing
(S-LD14 or S-LD14TL)
6.4mm OD x 4.3mm ID



Dual Skip Bonded Tubing
(S-LD14-DUAL)
Two 1/4 inch (6mm) OD tubes linked together - simplifies deployment of tubing in boreholes.

Portable tubing & reels

Portable systems are available using reels with varying lengths of tubing up to 100m. Particularly convenient if used with mini pumps and 6mm dual tubing.



Drop tubes

Drop tubes can be added to extend the depth of sampling, particularly useful in deep boreholes.

Dedicated well caps

For dedicated installations, two standard well caps are available.

2 inch / 60mm ID

(S4048/2WH)
Well cap (for 3/8" (9.5mm) or 1/4" (6.4mm) tubing), includes dipper access port (13mm OD).

4 inch / 114mm ID

(S4048/24WH)
Use an adaptor (114mm ID) to link a '2 inch' well cap to a '4 inch' well lining.

Cap sizes can be customised.



Tethering options

Heavier pumps should be secured with a safety line.

Stainless steel cable (S3001/SC1002)

2mm dia stainless steel. Cable connectors also available.

Kevlar Cord (KC2-100)

2mm dia non-stretch durable, chemically resistant Kevlar cord.

Tag line (S103)

1.6mm dia SS cable on a reel with graduated laser markings every 10cm. Includes end clip.

