

# Universal Minimesse® Oil Sampling Kit

- Safe & easy to use  
Minimesse® sampling points
- Take oil samples up to  
630 bar working pressure
- Extract oil samples from low or  
non pressurised vessels & tanks
- A wide range of fittings & adaptors  
allow for Minimesse® sampling points  
to be easily installed.
- Allows for leak free sampling of  
a wide oil viscosity range



The Universal Minimesse® oil sampling kit contains all you need to be able to extract oil samples safely and easily from almost anywhere on your machine or plant.

*The ultimate sampling kit for service Engineers!*

**Plant Engineering**  
**Industrial machinery**

**Automotive**  
**Agricultural & Construction**  
**Process machinery**



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## 3101-20-00.USK Universal Oil Sampling Kit

### Kit Contents / spares list



- 1 High Pressure 630 bar Minimesse® I 620 Sampling Hose 1.5m long
- 2 Vacuum Minimesse® I 604 Sampling Hose 1.5m long
- 3 100ml plastic oil sampling bottle
- 4 690 bar (10,000psi) rated oil sampling tap with Minimesse® I 620 hose connection
- 5 Vacuum Thief Pump for tank / gearbox oil sampling via Minimesse® I 604 sampling probe & vacuum hose.
- 6 1/4", 3/8" & 1/2" bonded sealing washers
- 7
- 8
- 9 1/4" BSP male / swivel female Minimesse® I 620 sampling point tee adaptor
- 10 3/8" BSP male / swivel female Minimesse® I 620 sampling point adaptor
- 11 1/2" BSP male / swivel female Minimesse® I 620 sampling point adaptor
- 12 3/4" BSP male / swivel female Minimesse® I 620 sampling point adaptor
- 13 Minimesse I 620® sampling point to 1/4" BSP male thread with captive seal.
- 14 1/4" BSP female to 3/8" BSP male thread adaptor.
- 15 1/4" BSP female to 1/2" BSP male thread adaptor.
- 16 Minimesse® I 604 sampling point with 6" (150mm) long sampling probe. 1/4" BSP male screw in thread with captive seal.

For further technical information of any of the components supplied in the Universal Minimesse® sampling kit, please contact us.



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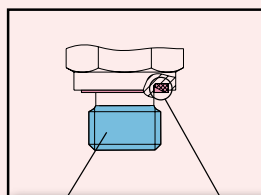
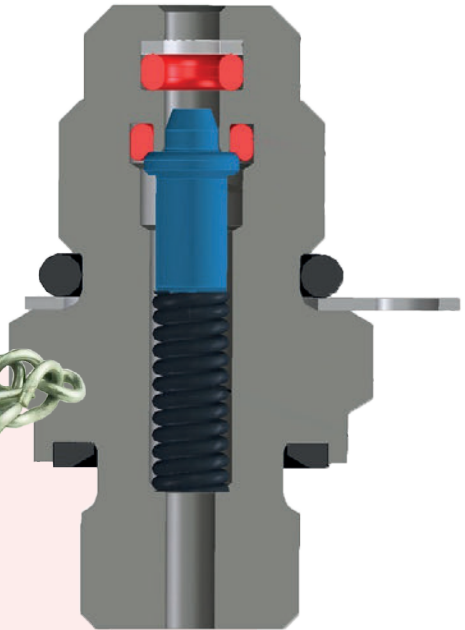
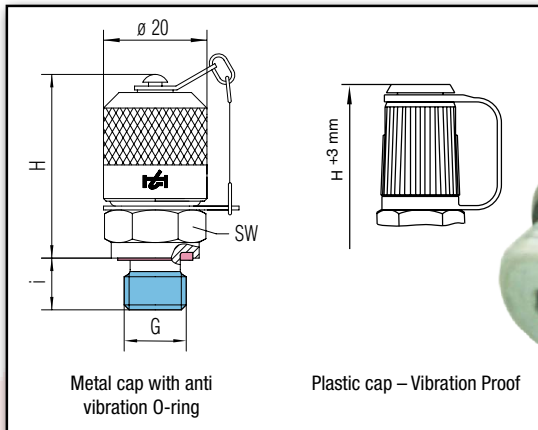


## Minimess® I 620 Test / Sampling Points

MINIMESS® 1620 or 'Test 20' is the most commonly used test point across all industries. The wide choice of materials and connection threads make this the most versatile range available



Lifetime leak-free guarantee



Thread G	Seal type A	Torque Nm	p max Bar	H mm	i mm	SW mm	Free cutting steel 1.0718	Free cutting steel 1.0718	Stainless steel 1.4571
							Metal cap	Plastic cap	Metal cap
							Part number with NBR – sealing	Part number with NBR – sealing	Part number with FKM – sealing
M 8 x 1*	Form G	6	250	41	8.5	17	2103-01-32.00	2103-30-32.00	on request
M 10 x 1	Form G	12	630	37.5	8.5	17	2103-01-33.00	2103-30-33.00	2703-01-33.10
M 12 x 1.5	Form F	30	630	36	10	17	2103-01-13.00	2103-30-13.00	on request
M 14 x 1.5	Form F	40	630	36	10	19	2103-01-14.00	2103-30-14.00	2703-01-14.10
M 16 x 1.5	Form F	60	630	36	10	22	2103-01-15.00	2103-30-15.00	on request
M 14 x 1.5	Form E*	45	630	35.5	11	19	2103-01-96.00	2103-30-96.00	on request
ISO 228-G 1/8	Form F	18	400	38	8	17	2103-01-17.00	2103-30-17.00	2703-01-17.10
ISO 228-G 1/4	Form F	40	630	36	10	19	2103-01-18.00	2103-30-18.00	2703-01-18.10
ISO 228-G 3/8	Form F	60	630	36	10	22	2103-01-16.00	2103-30-16.00	on request
1/8 NPTF	Form H	-	400	33	9.5	17	2103-01-46.00	2103-30-46.00	on request
1/4 NPTF	Form H	-	630	33	16.5	17	2103-01-47.00	2103-30-47.00	2703-01-47.10
7/16-20 UNF	Form E	20	630	37	9	17	2103-01-21.00	2103-30-21.00	on request
9/16-18 UNF	Form E	35	630	36	10	19	2103-01-53.00	2103-30-53.00	on request
ISO 7/I-R 1/8	Form C	-	400	33	13	17	2103-01-40.00	2103-30-40.00	on request
ISO 7/I-R 1/4	Form C	-	630	33	13	17	2103-01-41.00	2103-30-41.00	on request

### Option

For sealing in FKM (Viton) Exchange end digits from 00 to 10

Other materials, designs, sealing and screw-in threads on request.  
We reserve the right to carry out technical modifications.

\* M8x1 – Please do not use for new machinery design.

\*\* Form E – ISO 6149-2.



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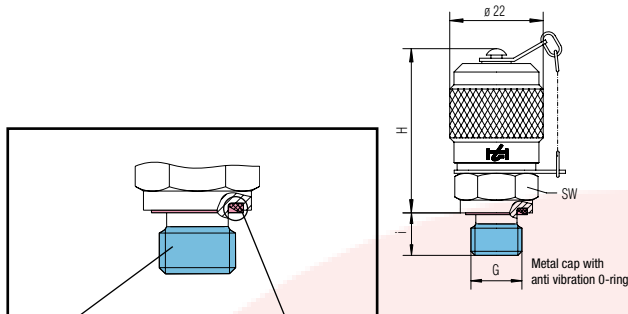


## Minimess® I 604 Test / Sampling Points

### Minimess® I 604 testing & sampling points

4mm nom. bore - M16 buttress thread

For use with viscous fluids e.g. gear oils or for quicker flow requirements



Free cutting steel 1.0718	Stainless steel 1.4571
Metal cap	Metal cap
Part number with NBR sealing	Part number with NBR sealing
2106-01-33.00	on request
2106-01-14.00	on request
2106-01-18.00	2706-01-18.10

Thread G	Type of sealing A	Torque Nm	p max Bar	H mm	i mm	SW mm
M 10 x 1	Form G	12	400	43	8.5	17
M 14 x 1.5	Form F	40	400	40	10	17
ISO 228-G 1/4	Form F	40	400	40	10	19

#### Option

For FKM (Viton) exchange end digits from 00 to 10

## BSP Inline Minimess® I 620 Tee Adaptors

**BSP Parallel male x swivel female (60° cone sealing) test point adaptor c/w I 620 Minimess® sampling point fitted.**

In line SNA Minimess® pressure test point adaptors are a simple and easy method of adding sampling points into a system.

Suitable for OEM build or retro-fitting to existing systems, SNAs fit between hose joints or manifold and hose.

Connect and disconnect under pressure whilst system is operational up to 630 bar.

Also available in JIC, ORFS & Metric formats.



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## Minimess® Oil Sampling Pitot Tubes

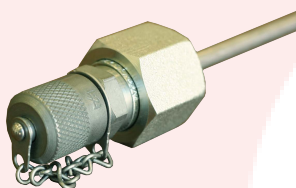
Precise sampling of Oils from low or unpressurised systems



Pitot tubes (or tube extenders) are available in a variety of lengths and styles, and are used primarily in gearbox applications. Installation involves the removal of an existing port plug from the gearbox and insertion of the pitot tube. All Pitot tubes have a standard fixed male 1/4" BSP thread, but can be bushed down to fit into the existing port hole. Pitot tubes allow for sampling directly into the oil reservoir, from above or below. Standard lengths are 6" or 12" but custom lengths can be ordered or can be easily cut to a specific length during installation.



Use caution to avoid placing tubing in the path of moving parts

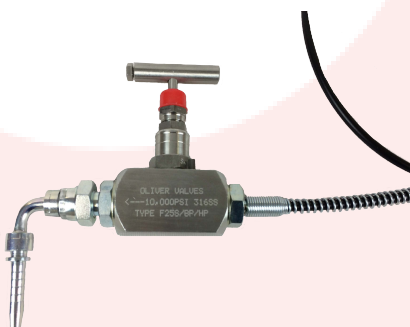


Occasionally it is necessary to install the pitot tube from above the oil flow or manipulate the tube to avoid an obstruction. In this case it is necessary to bend the pitot tube (with a tube bending tool) to allow the pitot tube to dip into the oil reservoir or avoid the obstruction. The swivel style pitot tube assembly comes with an integrated swivel adapter to allow for the proper placement of the pitot tube after it has been bent.

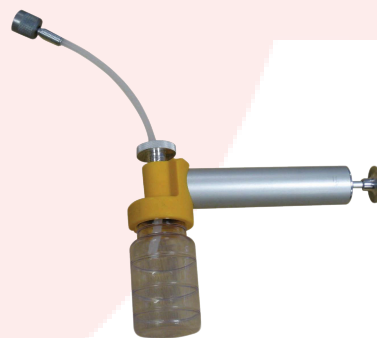
## Minimess® Oil Sampling Accessories



Microbore hose allows tool free connection to existing Minimess® sampling points. Simple finger tightening of the nut opens and closes the Minimess valve to let out the oil as required.



For high pressure systems it is recommended to use the sampling tap provided which connects to the supplied microbore hose, allowing for easier dispensing of oil up to 630 bar by means of the T bar handle and delivery spout.



The provided "Thief" extraction vacuum pump & Minimess® 1604 nylon tube allows oil samples to be drawn from non pressurised system directly in to the sampling bottle

