

Charging Set VGU

The charging set VGU is an indispensable instrument for the verification, pressurization and nitrogen bleeding of most of the hydraulic accumulators available on the market. The standard set is delivered in a storage case containing the following:

- VGU universal tester and pressurizer (end M28 x 1.50).
- Pressure gauge kit from 0 to 25 bar.
- Pressure gauge kit from 0 to 250 bar.
- Connection adapters for inflation valves (7/8" - 5/8" - 8V1 - M28 x 1.50 G 1/4").
- High pressure hose, 2.5 m long, for connecting to a nitrogen source.
- Hexagon socket screw key 6mm.
- Spare parts kit including rings
- Operating instruction in French, English, German & Italian.

Note: On request, the following options are available:

- Pressure gauge kits with different scale divisions: 63mm with glycerol bath back end G1/4" cyl. equipped with direct gear for Minimess ® connection. Scale divisions 0-10, 0-60, 0-100, 0-400, with accuracy class 1.6%.
- High pressure hose of different length with adapters for nitrogen bottles from various countries (specify country), at each end with a female swivel coupling G1/4" for connecting to the inflation port.

Maximum working pressure: limited by the maximum operating pressure of the installed hydraulic system, pressure limited to **400 bar** in any case.

Type Part number	Spare Parts	
	High Pressure Hose	Spare Part Kits
	Type Part number	Type Part number
VGU/F.25/250.8.TS2.3 20214122823	TS2 (France) 20214800000	10774100023
VGU/F.25/250.8.TS3.3 20214122833	TS3 (Germany) 20228000000	10774100023
VGU/F.25/250.8.TS8.3 20214122883	TS8 (Italy) 20217200000	10774100023
VGU/F.25/250.8.TS9.3 20214122893	TS9 (Netherlands) 20227300000	10774100023
VGU/F.25/400.8.TS2.3 20214139823	TS2 (France) 20214800000	10774100023
VGU/F.25/400.8.TS3.3 20214139833	TS3 (Germany) 20228000000	10774100023
VGU/F.25/400.8.TS8.3 20214139883	TS8 (Italy) 20217200000	10774100023
VGU/F.25/400.8.TS9.3 20214139893	TS9 (Netherlands) 20227300000	10774100023

Spare parts Gauge KIT VGU

Type Part number
0 to 25 bar 00090300000
0 to 250 bar 00090500000
0 to 400 bar 00090600000

SPARE PARTS* Adaptors VGU

Type Part number
Adaptor 5/8" - 18 UNF 20213000223
Long Adaptor 7/8" - 14 UNF 20212700223
Short Adaptor 7/8" - 14 UNF 20213500223
Adaptor 1/4" cyl 20221100220
Coupling 8 V1 20214000200





VGU Connections

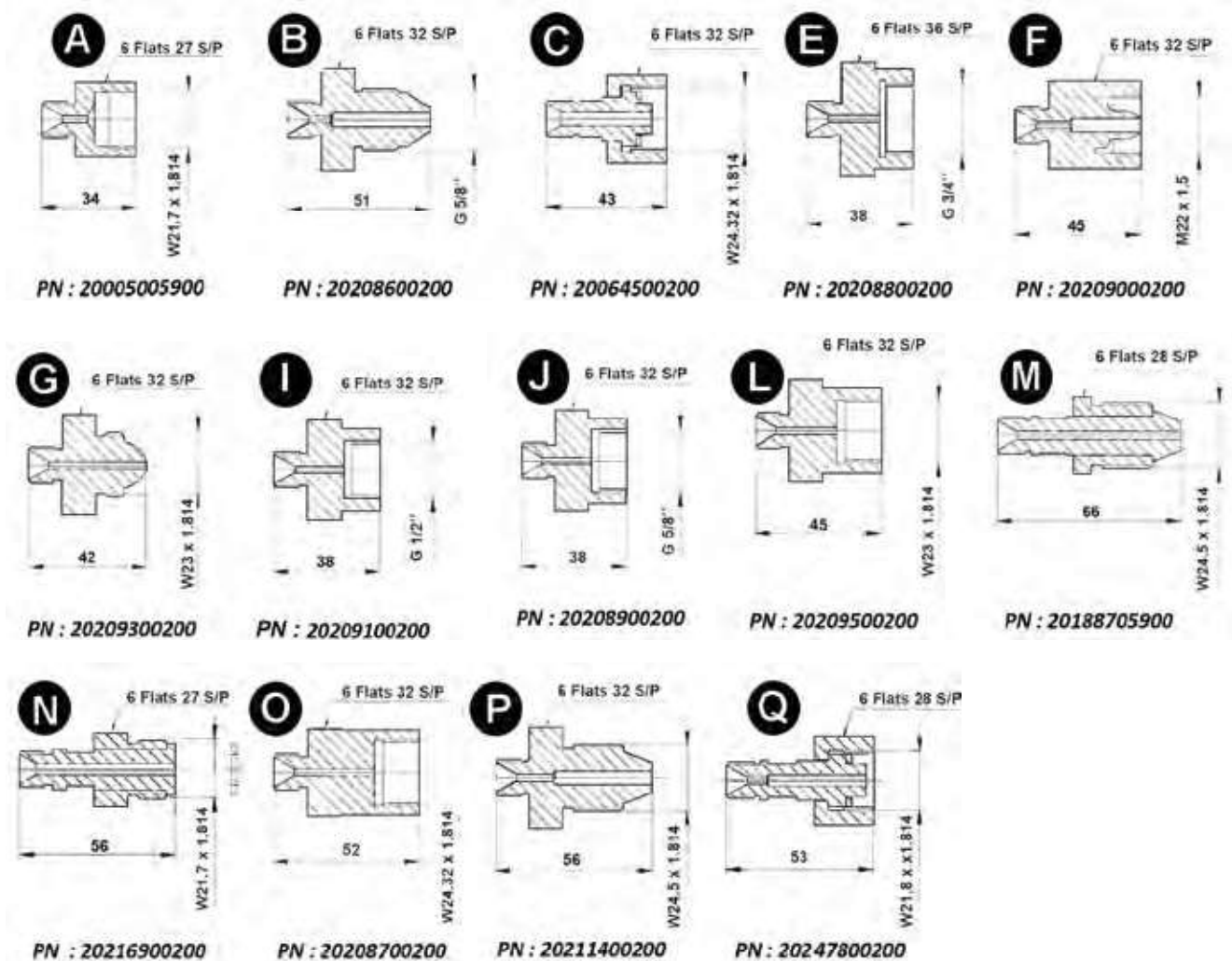
Country	Type of Connection
ARGENTINA	B
AUSTRALIA	B
AUSTRIA	C/O
AZERBAIJAN	E/C/O
BELARUS	E/C/O
BELGIUM	A/C/O
BRAZIL	I
BULGARIA	E/A
CANADA	M/P
CHINA	F/J
CZECH REPUBLIC	C/O
DENMARK	C/O
FINLAND	C/O
FRANCE	A

Country	Type of Connection
GERMANY	C/O
GEORGIA	E/C/O
GREECE	A/B
HONG KONG	B
HUNGARY	A/Q
INDIA	B
INDONESIA	B
IRELAND	B
ITALY	N
JAPAN	G
KAZAKHSTAN	E/C/O
LUXEMBOURG	C/O
MALAYSIA	B
MEXICO	M/P/A

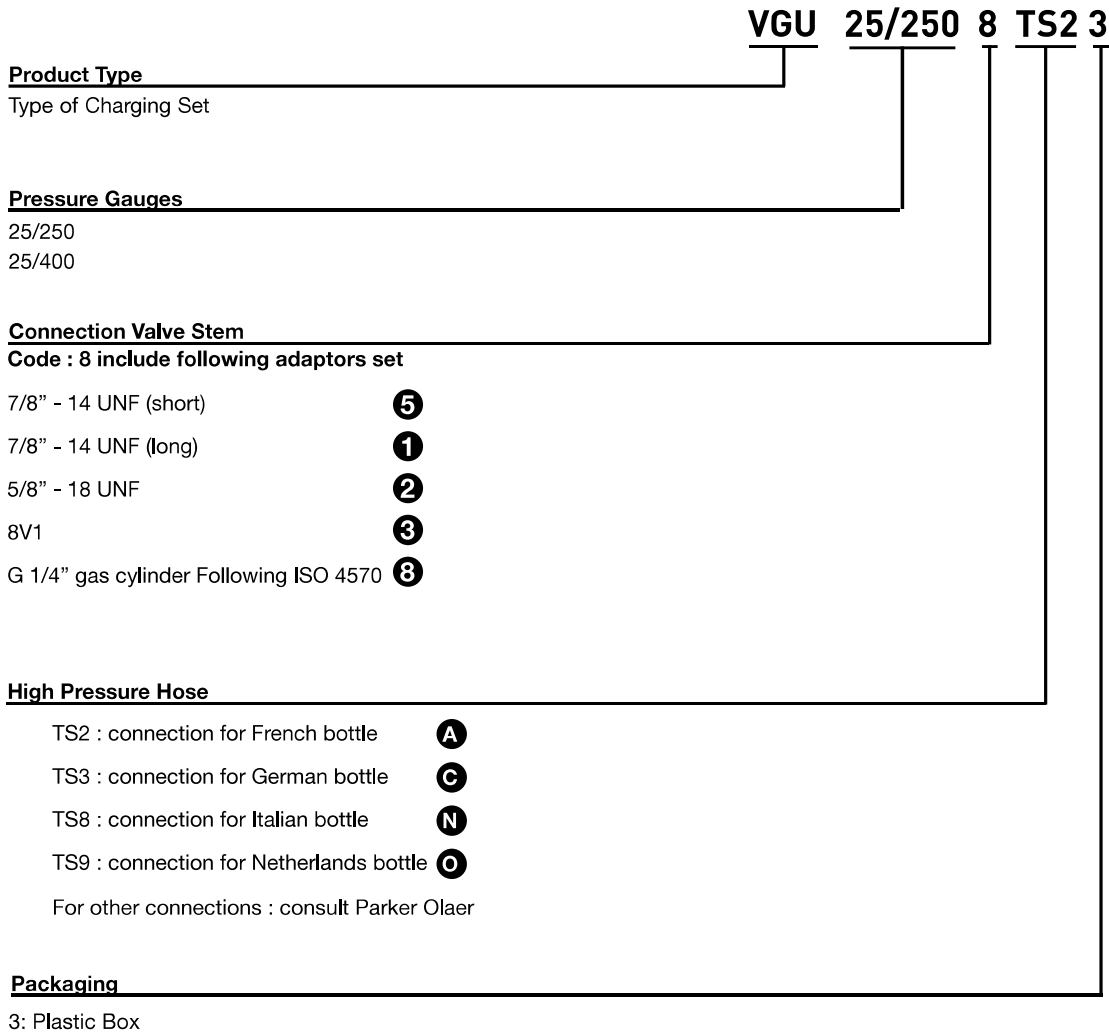
Country	Type of Connection
NEW ZEALAND	B
NORTH AFRICA	A
NORWAY	C/O
PHILIPPINES	L/B
POLAND	C
PORTUGAL	B
ROMANIA	A
RUSSIA	E/C/O
SINGAPORE	B
SLOVAKIA	C/O
SLOVENIA	C/O
SOUTH AFRICA	B
SOUTH KOREA	G
SPAIN	A

Country	Type of Connection
SWEDEN	C/O
SWITZERLAND	C/O
THAILAND	B
THE NETHERLANDS	C/O
TURKEY	B/C/O
UKRAINE	C/O
UNITED ARAB EMIRATES	A
UNITED KINGDOM	B
USA	M/P
VIETNAM	B

According to NF-E-29-664 Standard



How to order a VGU Charging Set



Charging kit high pressure and “F gas valve”

Charging Sets

A charging set is an indispensable instrument for the verification, pressurization and nitrogen bleeding of most of the hydraulic accumulators available on the market. To use this unit, it is screwed on the gas charging valve of the accumulator and connected via a high pressure hose to the nitrogen source, equipped with a pressure regulator. If only the nitrogen pressure is to be controlled or reduced, this hose is not necessary.

Charging Sets (no case)

Specification

Part Number

10503 Composing:

- Carbon steel body
- Hose including fixed nitrogen adaptor (5/8" BSP Male)
- Bleed valve
- Pressure gauge
- Connection: 1/4" BSP male coned to suit hose assembly

Charging Hose: 11774
Maximum Working Pressure: 345 bar
End Termination: 5/8" BSP male bullnose
Length: 2.5 metres

For assembly WITHOUT hose, part numbers become 10500-02, 10500-03 etc.



Charging Kits (with case)

Specification

Universal Charging Set:

10691-XX Composing:

- Charging set body
- Pressure Gauge (refer to table below)
- 1 x Charging Hose (refer to table below)

Charging Hose: 50096-099
Maximum Working Pressure: 345 bar
End Termination: 1/4" BSP female swivel
Length: 2.5 metres

Charging Hose: 54248-099
Maximum Working Pressure: 690 bar
End Termination: 1/4" BSP female swivel
Length: 2.5 metres



Part No	Pressure Range (bar)	Charging Set Contents		
		Pressure Gauge(s)		Charging Hose
		Pressure (bar)	Part No	
10500-02	0-25	0-25	45053-099	n/a
10500-03	0-60	0-60	45084-099	n/a
10500-04	0-160	0-160	45085-099	n/a
10500-05	0-250	0-250	45086-099	n/a
10500-07	0-400	0-400	45087-099	n/a
10503-02	0-25	0-25	45053-099	11774
10503-03	0-60	0-60	45084-099	11774
10503-04	0-160	0-160	45085-099	11774
10503-05	0-250	0-250	45086-099	11774
10503-07	0-400	0-400	45087-099	11774
10520-10	0-690	0-1000	45140-099	n/a
10523-10	0-690	0-1000	45140-099	55354-099

Part No	Pressure Range (bar)	Set/ Kit Contents			
		Pressure Gauge (S)		Charging Hose	Case
		Pressure (bar)	Part No		
10690-02	0-25	0-25	45053-099	50096-099	43183
10690-03	0-60	0-60	45084-099	50096-099	43183
10690-04	0-160	0-160	45085-099	50096-099	43183
10690-05	0-250	0-250	45086-099	50096-099	43183
10690-07	0-400	0-400	45087-099	50096-099	43183
10691-02	0-25	0-25	45053-099	11774	43183
10691-03	0-60	0-60	45084-099	11774	43183
10691-04	0-160	0-160	45085-099	11774	43183
10691-05	0-250	0-250	45086-099	11774	43183
10691-07	0-400	0-400	45087-099	11774	43183
10520-10	0-690	0-1000	45140-099	n/a	n/a
10693-10	0-690	0-1000	45140-099	54248-099	n/a
10694-10	0-690	0-1000	45140-099	n/a	43183
10692-10	0-690	0-1000	45140-099	54248-099	43183

Optional Extras

Country	Part No.	Description
UK	50094-099	Nitrogen Cylinder Adaptor 1/4"BSP (M) x 5/8"BSP (M)
	50096-099	Charging Hose 1/4"BSP (F) 345 bar x 2.5m long 1/4"
	50097-099	both ends
	55354-099	Extension Adaptor for Charging Hose 345 bar Charging Hose 1/4"BSP (F) 690B x 2.5m long

	Part No.	Description
Accessories	50032-V10	Charging Hose Adaptor 1/4"BSP (M) x 1/4"NPT (F)
	43183	Charging Set Carrier Box
	10127	Charging Block Elbow 1/4"BSP (M)
	10128	Charging Block Elbow .302" x 32 TPI (M)
	11015	Tool Kit

Charging extender F1

Charging extender F1 is an indispensable instrument for test, pressurization and nitrogen discharge of bladder accumulator when space area limited.

It directly connects to charging VG devices

It includes :

- VG connection
- Nitrogen hose
- Nitrogen valve (for 5/8" UNF) connection

Part Number	VG connection	Designation
20226700000	M28x1.5	CHARGING EXTENDER WITH HOSE 0.65 Meter
20153200000	5/8"UNF	CHARGING EXTENDER WITH HOSE 0.65 Meter
20181500000	5/8"UNF	CHARGING EXTENDER WITH HOSE 2 Meters

Maxi pressure : 210 Bar

Accessories :

For 7/8" UNF bladder accumulator gas valve connection use :

Part Number	Designation
20255603623	Adaptor for 7/8" UNF bladder accumulator gas valve connection

Spare parts :

Part Number	Designation
08284200000	Closing valve PU 210 Bar

