Questa sezione del catalogo è dedicato alla memoria di Paolo Cominelli,
il cui contributo fattivo e propositivo ha influito in modo determinante
alla stesura e alla raccolta delle informazioni tecniche in esso contenute.

This section is dedicated in Paolo Cominelli's memory
for his meritorius service to the collection of technical data gathered
to help create much of the written text included herewith.

Im Gedenken an Paolo Cominelli widmen wir ihm diese Sektion.
Es ist sein Verdienst, die technischen Daten zusammengetragen
und in Schriftform gebracht zu haben.

Se dedica este catálogo a la memoria de Paolo Cominelli,
cuyo contributo activo y propositivo resultó determinante
para la recolección da las informaciones técnicas que inlcuye y su realización.

Hélas, Paolo Cominelli, ne verra pas cette partie du catalogue, qu'il avait entièrement conçu.
Ses recherches tant techniques que culturelles y furent importantes.
Son efficacité, son dévouement contribuèrent à sa réalisation.

Cavagna group

LPG VALVES & EQUIPMENT

DIVISION

LPG TANK EQUIPMENT

Please be so kind to verify with us approvals, accessories (tubes, tubes materials, tubes fixing, anti-filling devices, tools for anti-filling devices, caps, sealants and settings) and optional features. Approvals of any kind have to be expressly specified on orders or enquires.

For orders please refer to:

cavagna group

omeca

tel. +39 030 9663.111 - fax +39 030 9969014
Website: www.cavagnagroup.com
E-mail: omeca@cavagnagroup.com

cavagna group

U.S.A.

LPG TANK EQUIPMENT

Multiservice Valve

67.0805
67.0.490.0805

NEW DESIGN

APPLICATION

These multivalves are suitable for 100-200 lbs DOT or ASME containers. The 67.0812 can also be used for a 60 gallons tank.

FEATURES

- Multi purpose valve with double back check filler valve
- Ideal for on site filling of DOT cylinder up to 200 lbs LPG capacity without interrupting service
- Includes a service valve, back check filler valve, fixed maximum liquid level gauge (specify DT lenght when ordering)
- New high discharge flow capacity pressure relief valve (1123 UL listing)
- Reduced filler valve chamber reduces the waste of LPG during filling operation
- Increased high filling capacity
- Double o-ring replaceable stem

ORDERING INFORMATION

Part number	Tank Connection	Vapor Service Connection	Filler Connection	Fixed Liquid Level Gauge	DT length	Propane liquid capacity at various differential pressure (GPM)				Pressure Relief Valve Flow Capacity (SCFM) Air		
						10 PSI	20 PSI	50 PSI	100 PSI	PRV Setting	UL	ASME
67.0805	3/4" MNPT	POL(CGA 510)	1 3/4" ACME	not captive	10.6"	9	15	23	35	375	1123	---
67.0808	3/4" MNPT	POL(CGA 510)	1 3/4" ACME	not captive	11.6"	9	15	23	35	375	1123	---
67.0812	3/4" MNPT	POL(CGA 510)	1 3/4" ACME	not captive	6.0"	9	15	23	35	250	n/a	n/a
67.0816	3/4" MNPT	POL(CGA 510)	1 3/4" ACME	not captive	8.2"	9	15	23	35	250	1123	---
67.0817	3/4" MNPT	POL(CGA 510)	1 3/4" ACME	not captive	9.6"	9	15	23	35	250	1123	---
67.0814	3/4" MNPT	POL(CGA 510)	1 3/4" ACME	not captive	9.6"	9	15	23	35	250	821	740
67.1004	3/4" MNPT	POL(CGA 510)	1 3/4" ACME	not captive	8.6"	9	15	23	35	375	1123	---

EDITION JUNE 2005

Multiple head unit

67.0807

67.0.490.0807
Multi Service Valve for ASME underground Propane tank.

APPLICATION

These multiservice valves are designed for use in a single opening ASME containers with a riser of 2 1/2" MNPT.
A separate opening is required for liquid withdrawal valve.

FEATURES

The solid brass multiservice valve incorporates:
- double check filler valve
- vapour equalizing valve with excess flow
- pressure relief valve with protective cap
- service valve with Cavagna Qualihandwheel system
- plugged 1/4" F.NPT gauge boss
- fixed liquid level gauge with DT. Specify DT length when ordering
- "Junior" size float gauge flange opening. Specify float gauge when ordering
- Internal threads accomodate 2 1/2" M.NPT riser pipe connection and a 3/4" F.NPT connection for the filling valve opening
- Douple o-ring service valve: individual replacement system

* Specify when ordering

ORDERING INFORMATION

Part number	Tank Connection	Vapor Service Connection	Filler Connection	Fixed Liquid Level Gauge	DT length	Propane liquid capacity at various differential pressure (GPM)				Pressure Relief Valve Flow Capacity (SCFM) Air		
						10 PSI	25 PSI	50 PSI	75 PSI	PRV Setting	UL	ASME
67.0807	2 1/2" MNPT	POL(CGA 510)	1 3/4" ACME	captive	*	58	98	146	186	250	1918	1808

Multiservice Valve

67.0720
67.0.490.0720

APPLICATION

Multiservice valve suitable for ASME tanks where a vapor service valve is required.
This valve incorporates in the same body a service valve, a vapour withdrawal valve and a fixed level gauge.

FEATURES

Improved Stem Seal - Two seals - a back seat and an O-ring (both TFE coated) protect against stem leakage in the service valve portion. When the service valve is fully open, the O-ring is not under pressure, increasing the service life of the O-ring.

Easy Seal Replacement - Should either of the stem seals need to be replaced, the tank does not have to be evacuated. Closing the service valve and removing the handwheel and bonnet permits the O-ring and back seat to be reached.

Redesigned Body Configuration - Installation of the 67.0720 can be made with a standard 1" socket wrench using the large center wrenching hex. The extremely low body silhouette (approximately 2 3/4") allows the use of small, economical hoods.

Convenient Level Gauge - Top mounting of the fixed liquid level gauge gives easy access.

Gauge Connection - The 1/4" FNPT gauge connection can be plugged or left unplugged for installation of a pressure gauge.

Fixed level gauge - Please specify DT length when ordering

Everseal - Preapplied on the inlet thread

Various DT length upon request

ORDERING INFORMATION

Part number	Tank Connection	Vapor Service Connection	Vapor Line Connection	Gauge Boss	Fixed Liquid Level Gauge	Fixed Level Gauge DT length	Wrench flat hex
67.0720	3/4" MNPT	Female POL CGA 510	11/4" M Acme	1/4" FNPT	Yes	12.00"	1"

Filler Valves

66.1122
66.0.290.1122
Double Check Filler Valve.

66.1232
66.0.290.1232

FEATURES

Double Back Check Construction - All Omeca filler valves are of the double back check construction where there are: (1) a soft seated up back check, and (2) a metal–to-metal lower back check seat or also a rubber seated back check like in the 66.1104.

Efficient Flow Characteristics - The efficient flow channel design of the valves gives low flow resistance, prolonging pump and hose life, and high filling capacity.

One Piece Body Design - 66.1073

Two Piece Body Design - 66.1134

Spray Fill - The one piece body 66.1073 gives spray filling when installed in any standard or recessed half coupling. The cooling effect of spray filling minimizes tank pressure build up, allowing product to remain in the liquid state for faster filling.

66.1134
66.0.290.1134

- Sealant pre-applied on the tank connection threads on both valves
- Both valves are UL listed
- Smaller filling upper chamber to avoid waste of liquid propane during every filling operation
- All the valves are furnished with yellow plastic caps with strap attached

Note: For replacement components, please refer to the end of the section.

ORDERING INFORMATION

Part number	Container connection	Line connection	Wrench Hex Flats	Propane liquid capacity at various differential pressure (GPM)						
				10 PSI	20 PSI	25PSI	30 PSI	40 PSI	50 PSI	75 PSI
66.1122	3/4" M.NPT	1 3/4 Male ACME	1 3/4"	17	23	-	28	33	37	-
66.1232	1 1/4" M.NPT	1 3/4 Male ACME	1 3/4"	58	-	98	-	-	146	186
66.1134	1 1/4" M.NPT	1 3/4 Male ACME	1 3/4"	54	-	100	-	-	148	190

EDITION JUNE 2005

Filler Valves

VRN 90

66.0.290.1051
Filler valve
for LP-GAS tanks.
TUV approved.
Furnished with
solid brass cap.

VRN 20L

66.0.290.1061
This is a special
filler valve, designed
for stationary
underground tanks.
This design facilitates
the connection between
the stationary tank
and the hose
of LPG tank truck.

VRN 93

66.0.290.0221

VRN 88

67.0.490.0681

FEATURES

- Both these valves are a double check filler valves where there are a soft seated upper back check and a (2) metal to metal lower back check seat

- In addition these filler valves incorporate an emergency ball shut-off valve

- These two versions can be used either for underground (VRN 88) or above ground LPG tanks (VRN 93) thanks to an oriented easy to connect design to the bobtail delivery truck

- Both valves are conforming British standards

ORDERING INFORMATION

Part number	Tank connection	Filler connection	Wrench Hex Flats	Propane liquid capacity at various differential pressure (GPM)						
				10 PSI	20 PSI	25PSI	30 PSI	40 PSI	50 PSI	75 PSI
66.1051 (VRN 90)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm	58	-	98	-	-	146	186
66.1061 (VRN 20L)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm	54	-	100	-	-	148	190
66.0221 (VRN 93)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm	-	-	-	-	-	-	-
67.0681 (VRN 88)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm	-	-	-	-	-	-	-

Filler Valves with overfilling prevention device

66.1101

66.0.290.1101
Filler valve suitable for underground tank.
The extended body allows an easier refilling operation.

66.1106

66.0.290.1106
Filler valve with high flow capacity suitable for above ground containers.
Specify tank size when ordering.

VRN SC-1200

66.0.290.1093
As the other valves that incorporates an OPD, this filler has in addition an extended filler valve with ball shut-off valve manually operated.

APPLICATION

These filler valves are designed for horizontal and vertical LPG containers.
All the valves are equipped with an antifilling prevention device.
Always specify type of tank (horizontal or vertical) diameter of the tank and location of the filler valve in the flange of the tank.

ORDERING INFORMATION

Part number	Tank Connection	Filler Connection	Wrench flat size	Specify tank dimension when ordering
66.1101	1 1/4" MNPT	1 3/4 ACME	1 3/4"	*
66.1106	1 1/4" NGT	1 3/4 ACME	1 3/4"	*
66.1093	1 1/4" NPT	1 3/4 ACME	1 3/4"	*

Filler Valves

NEW DESIGN

66.1115

66.0.290.1115

Filler valve for vertical ASME and DOT containers.
Specify tank diameter when ordering.
Suitable for a 300 litres or 420lbs vertical tank. They can be fitted to other tank sizes upon request.

NEW DESIGN

66.1154

66.0.290.1154

For Automotive Application

66.1157

66.0.290.1157

APPLICATION

These filler valves fitted with an OPD device are suitable for direct filling automotive applications.
Both these valves incorporate standard 1' 1/4 Hex wrench flat that allowing easy installation from the top with a socket wrench.

ORDERING INFORMATION

Part number	Tank Connection	Filler Connection	Wrench flat size	Specify tank dimension when ordering
66.1115	3/4" NPT	1 3/4 ACME	1 1/4"	*
66.1154	3/4" NPT	1 3/4 ACME	1 1/4"	*
66.1157	3/4" NPT	1/2" SAE	1 1/16"	*

Internal Pressure Relief Valves for ASME and DOT Containers

Designed specifically for use as a primary pressure relief device on ASME containers up to 2000 gallons water capacity. Furnished with rain cap for protection against contamination.
See ordering information for part numbers. All these valves have a pre-applied sealant on the container connection.
Most of these valves are ASME approved.

66.1128 NEW
(66.1030) OLD

66.0.290.1128 NEW
(66.0.290.1030) OLD

66.1135 NEW
(66.1057) OLD

66.0.290.1135 NEW
(66.0.290.1057) OLD

66.1129 NEW
(66.1029) OLD

66.0.290.1129 NEW
(66.0.290.1029) OLD

66.1130 NEW
(66.1031) OLD

66.0.290.1130 NEW
(66.0.290.1031) OLD

66.1162
66.0.290.1162

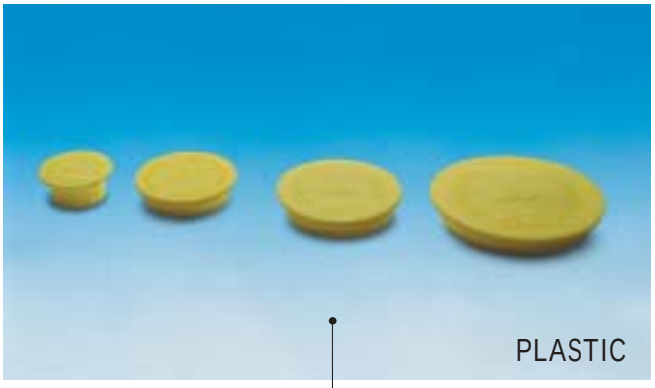
ORDERING INFORMATION

Part number	Container Connection	Start to Discarge Setting PSI	UL (at 120% of set pressure) Flow capacity SCFM/AIR	ASME (at 120% of set pressure) Flow capacity SCFM/AIR	Wrenching Hex
66.1129 NEW 66.1029 OLD	1"-NPT	250	2662 2757	2396 2493	1 7/8" NEW 1 3/4"
66.1128 NEW 66.1030 OLD	3/4"-NPT	250	1989 2007	1790 1807	1 3/4" NEW 1 9/16"
66.1130 NEW 66.1031 OLD	1-1/4"-NPT	250	4372 4312	3934 3913	2 3/8" NEW 2 1/4"
66.1058	1"-NPT	312	1109	979	1 5/16"
66.1135 NEW 66.1057 OLD	1"-NPT	250	1074 864	967 786	1 5/16"
66.1127	1"-NPT	375	1491	n/a	1 5/16"
66.1162	3/4"-NPT	312	690	690	1 1/16"
66.1132	1"-NPT	375	1491	n/a	1 5/16"

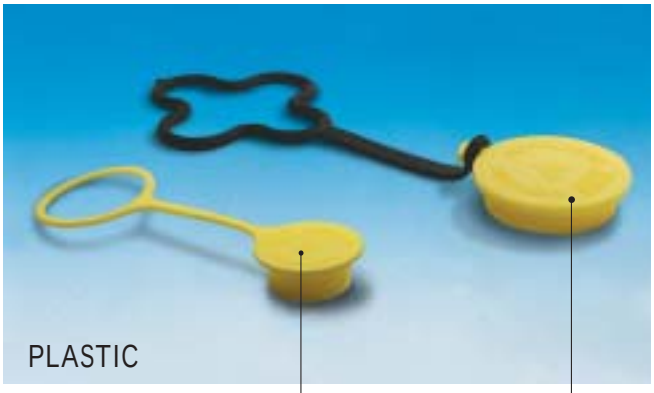
EDITION JUNE 2005

Rain caps for Internal Pressure Relief valves Vinyl or plastic

30.0274
30.0273
30.0276

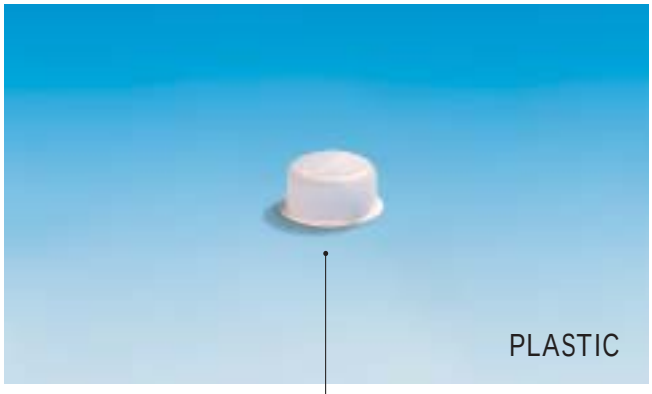


10.5032
10.5036
10.5033
10.5037



10.5038

10.0203
10.0204
10.0205



10.5056

ORDERING INFORMATION

Type for	Part number
66.1029 66.1129	30.0.110.0273 - 10.0.110.5033 - 10.0.950.0204
66.1030	30.0.110.0274 - 10.0.110.5036
66.1128	30.0.110.0274 - 10.0.950.0203
66.1031 66.1130	30.0.110.0276 - 10.0.110.5037 - 10.0.950.0205
66.1057 66.1058 66.1127 66.1135	10.0.110.5032
66.1162	10.0.110.5056
66.1027	10.0.110.5056
66.0248	10.0.110.5038

EDITION JUNE 2005

Internal Pressure Relief Valves for DOT fork lift Cylinders

66.1027

66.0.290.1027
Designed specifically for use as primary relief valve on fork lift cylinders.
A 45° deflector adapter is already included into the body of the valve.
The design of the valve is a one-piece hot forged brass body.

66.0248

66.0.290.0248
Designed specifically for use as primary relief valve on fork lift cylinders.
Specific protective cap is provided with 66-0248.
See ordering information for part numbers.

ORDERING INFORMATION

Part number	Container Connection	Start to Discarge Setting (PSI)	UL (at 120% of set pressure) Flow capacity SCFM/AIR	Wrenching Hex
66.1027	3/4" NPT	375	400	1 1/16”
66.0248	3/4" NPT	375	400	1 1/16”

EDITION JUNE 2005

Service Valves for DOT Fork Lift and ASME Motor Fuel containers

80.2062
80.0.380.2062

80.2063
80.0.390.2063

80.2064
80.0.390.2064

80.2146
80.0.390.2146

APPLICATION

These valves are designed for vapor or liquid withdrawal service on DOT fork lift truck containers (80-2064) and ASME containers (all the others). All these valves are equipped with an excess flow limiter with different settings.
Since these valves do not have an integrated pressure relief valve they may only be used as an accessory valve on containers that have an indipendent PRV suitable for that container capacity (like 66.0248 or 66.1057 or 66.1058 see page pressure relief valves).

FEATURES

All these valves are supplied with preapplied sealant on the inlets. The 80.2064 has also preapplied sealant on the outlet.

Double O-ring Stem Seal - Two O-rings form the stemseal for improved resistance to leakage due to dirt or temperature extremes.

Tamperproof Design - Travel stop keeps handwheel from being removed, helps to prevent tampering.
Also,prevents removal of the stem and provides an additional seal against gas leakage.

Sturdy QualiHandwheel Brass Handle - Large, sturdy brass handwheel and stem threads less likely to be broken, even with rough handling.

Static Seat Disc - Since the seat disc does not rotate, abrasive wear on the disc is eliminated, improving service life.

Recessed Excess Flow Valve - The recessed excess flow valve helps reduce the possibility of mechanical damage or fouling from excess pipe compound.

ORDERING INFORMATION

Part number	Container Connection	Outlet Connection	Normal Application	Excess Flow Closing
80.2063	3/4" M.NGT	3/8" SAE Flare (70)	ASME Motor Fuel	3.3 GPM
80.2062		3/8" SAE Flare (90)	ASME Motor Fuel	3.3 GPM
80.2146		POL (CGA 510)	ASME Motor Fuel	1.5 GPM
80.2064		3/8-18 NPT	DOT Forklift	2.6 GPM

EDITION JUNE 2005

Lift Truck Connectors

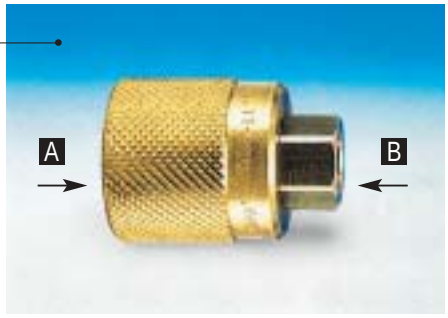
These brass connectors are designed to join the carburator fuel line to the service valve on FLT.

66.1024

66.0.290.1024
Half coupling ACME.
For installation on LP gas engine fuel lift truck service valves.

66.1023

66.0.290.1023
Female coupling ACME.
- For installation on the carburator fuel line.
- Both connectors automatically close when disconnected.



ORDERING INFORMATION

Part number	INLET A	OUTLET B	Normal Application
66.1024	3/8" F.NPT	1 1/4" M.ACME	Service Valve
66.1023	1 1/4" F.ACME	1/4" F.NPT	Fuel Line

Fixed Liquid Level Gauges

66.1072

66.0.290.1072
Special DT length can be ordered apart.
An optional instruction plate may be ordered for use with these valves.
All these valves incorporate a N° 54 drill size orefice.

66.1161

66.0.290.1161

ORDERING INFORMATION

Part number	Container connection	DT lenght
66.1072	1/4" M.NPT	12"
66.1116	1/4" M.NPT	5,4"
66.1117	1/4" M.NPT	6,6"
66.1118	1/4" M.NPT	3,8"
66.1119	1/4" M.NPT	4,1"
66.1120	1/4" M.NPT	5,6"
66.1121	1/4" M.NPT	6,9"
66.1124	1/4" M.NPT	Without
66.1125	1/4" M.NPT	5,2"
66.1161	1/4" M.NPT	–

Liquid Withdrawal Valves with excess flow

All these valves are designed for liquid withdrawal from stationary containers.

69.0010

69.0.190.0010

This new liquid withdrawal valve is designed to provide withdrawing liquid from stationary tank prior to moving the tank. This valve can also be used on permanent installations being equipped with excess flow limiter.
Designed according to the latest UL standard.

66.1109

66.0.290.1109

This adapter is designed to be used with 69.0010 liquid withdrawal valve.
Fully compatible with the new evacuation valves on the market.

66.1025

66.0.290.1025

Liquid withdrawal valve with excess flow valve.
The valve can also be used with one transfer shut off valve RRL16 with an adapter.

69.0017

69.0.190.0017

Liquid withdrawal with Excess Flow Valve
Performance: excess flow closes 25.5÷3 m^3/h (water); residual flow ≤ 0.020 m^3/h (water) with ΔP +1 bar

ORDERING INFORMATION

Part number	Container Connection	Outlet Connection	U.L. Closing Flow (Propane)	Wrenching Hex (inches)
69.0010	3/4" MNPT	5/8 FNPT	20GPM	1 15/16”
66.1109	15/8" UNF	3/42 UNF	n/a	n/a
66.0017	1” 1/4" NPT	3/4" NPT	n/a	1 3/4”
66.1025	3/4" MNPT	3/4" NPT	18.5 GPM	1 3/8”

EDITION JUNE 2005

Service Valves for ASME and DOT containers or fuel line application

cavagna group LPG 5 YEARS LIMITED WARRANTY

NEW DESIGN

80.3135

Designed expecially for vapor withdrawal service on ASME an dot containers.
Since this valve has no integral pressure relief valve they may only be used as an accessory valve on containers that have an indipendent pressure relief valve sufficient for that container's capacity.
This valve can be used also as a service valve on a 420lbs tank or a 300lts horizontal tank.
This valve also incorporate a fixed liquid level gauge.
Specify DT length when ordering.

80.1002

80.0.290.1002
Open-close valve with POL outlet.
Designed for vapor withdrawal on small cylinders.

FEATURES

Double O-ring Stem Seal - Two O-rings form the stemseal for improved resistance to leakage due to dirt or temperature extremes.

Sturdy QualiHandwheel Brass Handle - New large sturdy brass handwheel and stem threads less likely to be broken, even with rough handling. Reparable design based upon reques.

Static Seat Disc - Since the seat disc does not rotate, abrasive wear on the disc is eliminated, improving service life.

ORDERING INFORMATION

Part number	Tank Connection	Vapor Service Connection	Fixed Liquid Level Gauge	Fixed Level Gauge DT light
80.3135	3/4" NGT	POL CGA 510	Not captive	11,1"
80.3144	3/4" NGT	POL CGA 510	Not captive	5,8"
80.1002	3/4" NGT	POL CGA 510	N/A	N/A
80.3149	3/4" NGT	POL CGA 510	Not captive	11,0"

EDITION JUNE 2005

Service Valves for DOT Cylinders

cavagna group LPG 5 YEARS LIMITED WARRANTY

UL®

80.6032

80.0.790.6032
Heavy duty POL valve with pressure relief valve for 200 lbs propane cylinders. Different DT length.

80.5024

80.0.690.5024
DOT cylinder valve for vapor withdrawal up to 100 lbs or 45 kg LPG capacity.

80.5016

80.0.690.5016
Dot cylinder valve for vapour withdrawal up to 100 Lbs LPG Capacity. Specify dip-tube lenghts when ordering.

80.6033

80.0.790.6033
Heavy duty POL valve with pressure relief valve for 200 lbs propane cylinders.

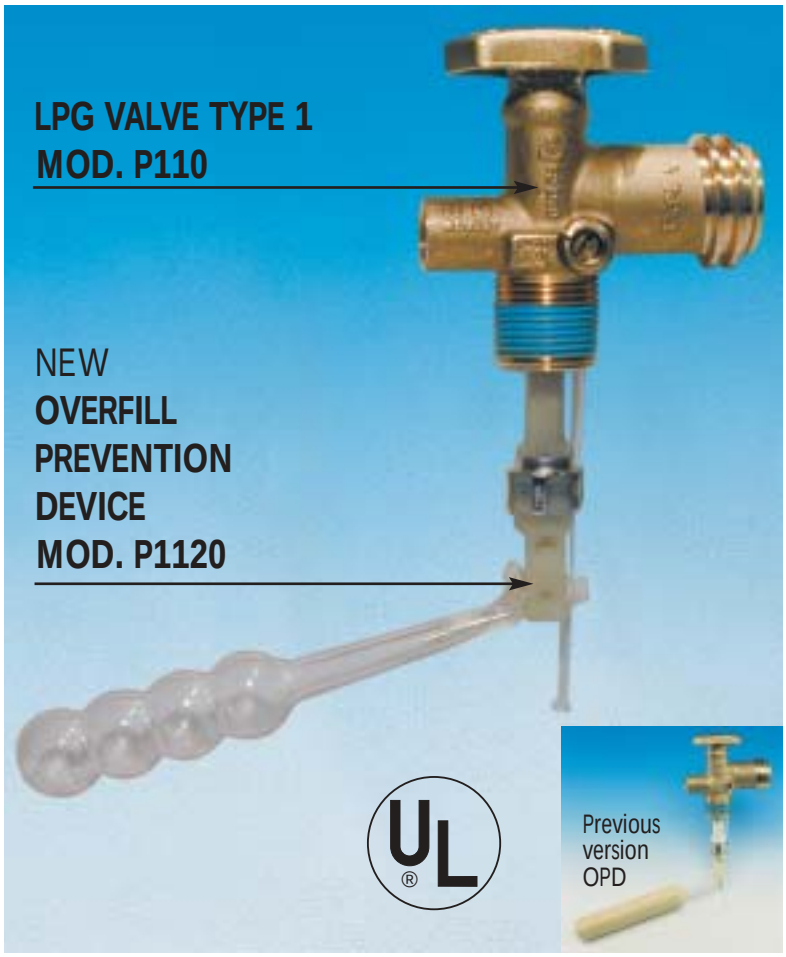
ORDERING INFORMATION

Part number	Cylinder Connection	Outlet Connection	Normal Application	Liquid Level Gauge	DT length	Relief Setting	UL rated discarge flow capacity (SEFM)
88.6033	3/4" NGT	Female POL (CGA 510)	DOT Cylinder up to 500 lbs	No	No	375	765
80.6032	3/4" NGT	Female POL (CGA 510)	DOT Cylinder up to 500 lbs	Yes	10,6"	375	765
80.5024	3/4" NGT	Female POL (CGA 510)	Service valve on DOT	No	---	375	366
80.5016	3/4" NGT	Female POL (CGA 510)	DOT up to 240 lbs	Yes	10,6"	375	366
80.5054	3/4" NGT	Female POL (CGA 510)	DOT up to 240 lbs	Yes	9,6"	375	366
80.5071	3/4" NGT	Female POL (CGA 510)	DOT up to 240 lbs	Yes	5,6"	375	366
80.5072	3/4" NGT	Female POL (CGA 510)	DOT up to 240 lbs	Yes	8,7"	375	366
80.5066	3/4" NGT	Female POL (CGA 510)	DOT up to MPS GAS 280 lbs	Yes	---	405	478
80.5070	3/4" NGT	Female POL (CGA 510)	280 lbs MPS GAS	Yes	10,7	405	478
80.5069	3/4" NGT	Female POL (CGA 510)	280 lbs MPS GAS	Yes	10	405	478
80.5068	3/4" NGT	Female POL (CGA 510)	280 lbs MPS GAS	Yes	9,4	405	478
80.5067	3/4" NGT	Female POL (CGA 510)	280 lbs MPS GAS	Yes	8,7	405	478
80.5058	3/4" NGT	Female POL (CGA 510)	280 lbs PROPILENE	Yes	10,2	390	460
80.5082	3/4" NGT	Female POL (CGA 510)	280 lbs PROPILENE	Yes	9,1	390	460
80.5081	3/4" NGT	Female POL (CGA 510)	280 lbs PROPILENE	Yes	7,4	390	460

Type 1 ACME Cylinder Valve with Overfill Prevention Device (OPD)

These Type 1ACME valves (CGA791) are intended for DOT cylinders up to 40 pounds LP Gas capacity, (96 pounds water capacity), LP Gas service. This valve has a vapor service outlet, relief valve, captive fixed liquid level gauge, and an overfill prevention device (OPD).

NEW



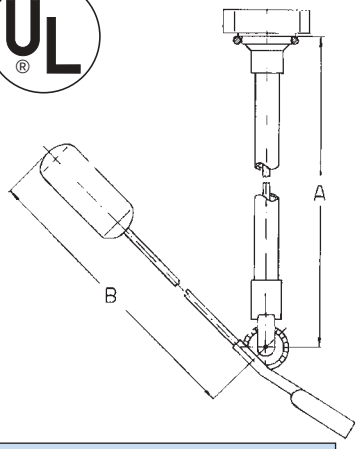
FEATURES

- Rapid Purging and filling with over One million BTU Withdawal Capacity
- Steel Safety Cage provides long-term Operational Protection
- Tri-lobular one-piece forged brass handwheel
- Double “O-Ring” stem seal for improved leak resistance
- Includes Ever Seal sealant (pre-applied)
- Quad “O-Ring” check valve seat, opens only with positive seal
- High capacity BTU withdrawal allows fast purging and filling
- Upward spray filling - eliminates premature shutoffs
- Steel safety cage surrounding critical welds - provides additional protections to components

Part Number	Cylinder Cap.	Container Conn.	Outlet Conn.	Relief Setting	Dip Tube
80.8107	20lbs	3/4”-14 NGT	Type 1 ACME and POL	375 PSIG	4.0”
80.8109	30lbs	3/4”-14 NGT	Type 1 ACME and POL	375 PSIG	4.8”
80.8110	40lbs	3/4”-14 NGT	Type 1 ACME and POL	375 PSIG	6.5”
80.8123	14lbs	3/4”-14 NGT	Type 1 ACME and POL	375 PSIG	3.2”
80.2124	20lbs	3/4”-14NGT	Type 1 ACME and POL	375 PSG	3.8”

LPG Float Gauges Flanged 4 bolt model

These float gauges flanged 4 bolt models includes also a mounting.



ORDERING INFORMATION

Part number	NOMINAL ø Inches	DIAMETER ø mm	TANK type	CONTAINER gallons	CAPACITY litres	DIMENSION (mm)	
						A	B
2069.U	24”	609,60	horizontal	120	454,25	338	285
2070.U	30”	762,00	horizontal	250/320	946,35/1.211,328	412	360
2071.U	37”	939,80	horizontal	500	1.892,70	510	438
2072.U	41”	1.041,40	horizontal	1000	3.785,40	553	477
2073.U	48”	1.219,20	horizontal			612	535
2075.U	30”	762,00	vertical			640	430
2076.U			vertical			560	477
20SO.U			horizontal			(*)	(*)
20SV.U			vertical			(*)	(*)

P.s.: MM is the month of manufacture
I.E. 2000/03 = 03-00

AA is the year of manufacture
(*) dimension on request

Magnetic LPG level indicator

Die cast zinc head. Gear assembly: Die cast zinc.
Float: spansil rubber.

101-3/4
Model with thread 3/4”. Manufactured for lift truck cylinder and for others type of vehicles.

ORDERING INFORMATION

Part number	NOMINAL ø Inches	DIAMETER ø mm	TANK type	CONTAINER CONNECTION
101-3/4	12”	305	horizontal	3/4” NPT
	10 1/22”	368		

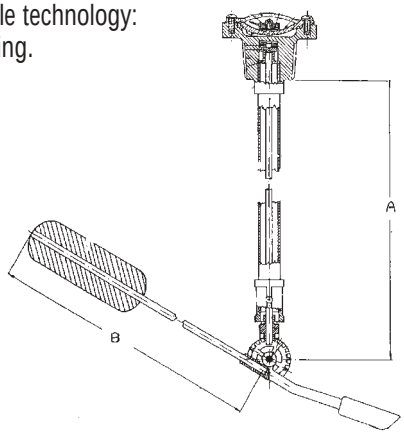
Threaded 3/4” model.
Die cast zinc hexagonal head (hex. 50)
Gear made of antivibrating delrin.
Float in spansil rubber.
Dial with reading lying within 140°.

Advise the cylinder diameter for different request.

EDITION JUNE 2005

LPG Threaded Float Gauges

All level gauges are produces in compliance to CEN TC 286-prEN 13799 standard. The float is made in SPANSIL rubber.
This kind of material, cannot be detached from his lodge when getting in touch with caustic soda.
These level gauges have been manufactured in accordance to the best available technology:
a tropicalised zamac has been used both for the head and the gearing.



ORDERING INFORMATION

Part number	NOMINAL ø Inches	DIAMETER ø mm	TANK type	CONTAINER gallons	CAPACITY litres	DIMENSION (mm)		CONTAINER CONNECTION
						A	B	
2069.U1”	24”	609,60	horizontal	120	454,25	338	285	1”
2070.U1”	30”	762,00	horizontal	250/320	946,35/1.211,328	412	360	1”
2071.U1”	37”	939,80	horizontal	500	1.892,70	510	438	1”
2072.U1”	41”	1.041,40	horizontal	1000	3.785,40	553	477	1”
2073.U1”	48”	1.219,20	horizontal			612	535	1”
2075.U1”	30”	762,00	vertical			640	430	1”
2076.U1”			vertical			560	477	1”
20SO.U1”			horizontal			(*)	(*)	1”
20SV.U1”			vertical			(*)	(*)	1”
2069.U1 1/4	24”	609,60	horizontal	120	454,25	338	285	1/4”
2070.U1 1/4	30”	762,00	horizontal	250/320	946,35/1.211,328	412	360	1/4”
2071.U1 1/4	37”	939,80	horizontal	500	1.892,70	510	438	1/4”
2072.U1 1/4	41”	1.041,40	horizontal	1000	3.785,40	553	477	1/4”
2073.U1 1/4	48”	1.219,20	horizontal			612	535	1/4”
2075.U1 1/4	30”	762,00	vertical			640	430	1/4”
2076.U1 1/4			vertical			560	477	1/4”
20SO.U1 1/4			horizontal			(*)	(*)	1/4”
20SV.U1 1/4			vertical			(*)	(*)	1/4”

P.s.: MM is the month of manufacture
I.E. 2000/03 = 03-00
(*) dimension on request

AA is the year of manufacture
(A= January, B= February, C= March etc.)

EDITION JUNE 2005

Tank Equipment Spare Parts

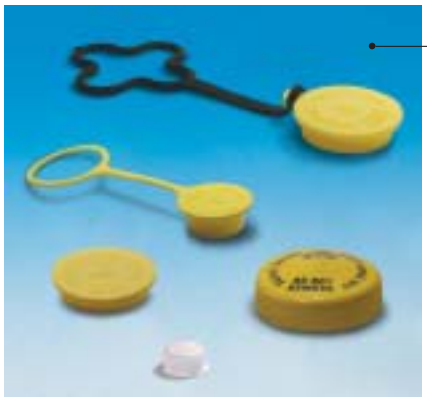
The manufacturer declines all responsibility
for incorrect use or application.
We recommend to use original parts
or to replace the whole valve.

Pressure gauge in
glycerine bath.
Scale 0-25 bar.
Connection: 1/4" NPT.

Type connection	Part number
Back side	30.0.110.0179
Radial	30.0.110.0180

Connection devices with excess flow
check valve built in to be used with
the multivalve GSE 35.

16.0.950.0039 (capacity 50 Kg.)
16.0.950.0052 (capacity 95 Kg.)

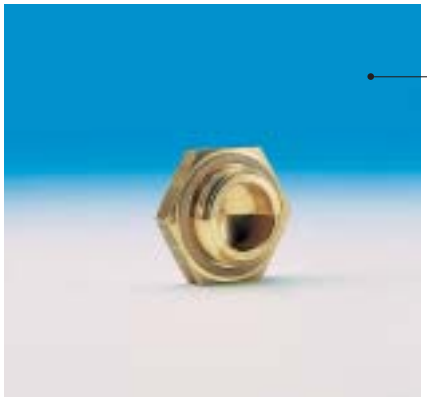


Rain caps for Internal Pressure Relief valves

Type for	Part number
66.1029 66.1129	30.0.110.0273 - 10.0.110.5033 - 10.0.950.0204
66.1030	30.0.110.0274 - 10.0.110.5036
66.1128	30.0.110.0274 - 10.0.950.0203
66.1031 66.1130	30.0.110.0276 - 10.0.110.5037 - 10.0.950.0205
66.1057 66.1058 66.1127 66.1135	10.0.110.5032
66.1162	10.0.110.5056
66.1027	10.0.110.5056
66.0248	10.0.110.5038

Connection for steel pipe (to
be welded), applicable to RL
15 - RL 25 Cylinder Valves.

16.0.950.0026



Plug with gasket for
Liquid Withdrawal Valve.

Type for	Part number
VLT 18 - VL 13	10.0.950.0080
VLF 14 - VLF 25	10.0.950.0082
66.1025	10.0.950.0044
69.0010	10.0.950.0128

EDITION JUNE 2005

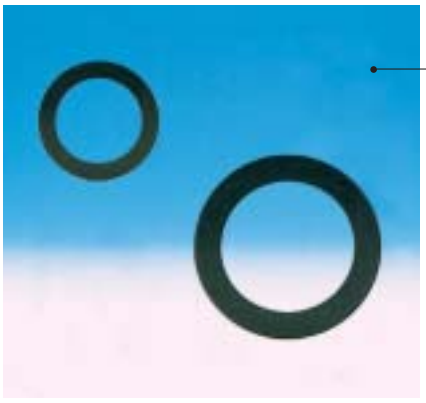
Tank Equipment Spare Parts

Plastic cap with ACME threading.
Caps with ACME threading
also available in brass.

Type for	Part number	colour
VRN14/20	10.0.950.0064	blue
GSE 35/38	10.0.950.0062	blue
66.1026	10.0.950.0053	yellow
66.1028	10.0.950.0053	yellow
66.1104	10.0.950.0053	yellow
66.1073	10.0.950.0053	yellow

Vent stem.
(GSE 35 - GS 50)

03.0.950.0145



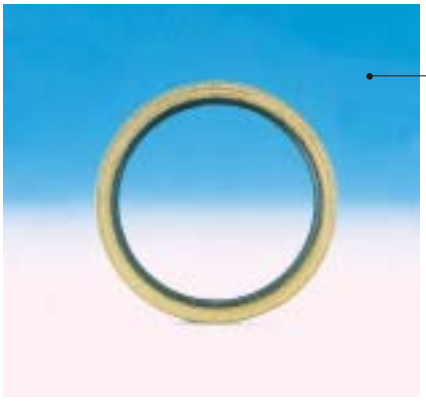
Rubber gasket
for ACME thread cap.

Type for	Part number
VRN20	04.0.110.2565
GSE	04.0.110.2578
66.1026	10.0.950.0053
66.1028	10.0.950.0053
66.1104	10.0.950.0053
66.1073	10.0.950.0053

Plastic rain caps for external
safety relief valves.

Type for	Colour White
EU 19	10.0.110.5012
EU 24	10.0.110.5011
EU 29	10.0.110.5013

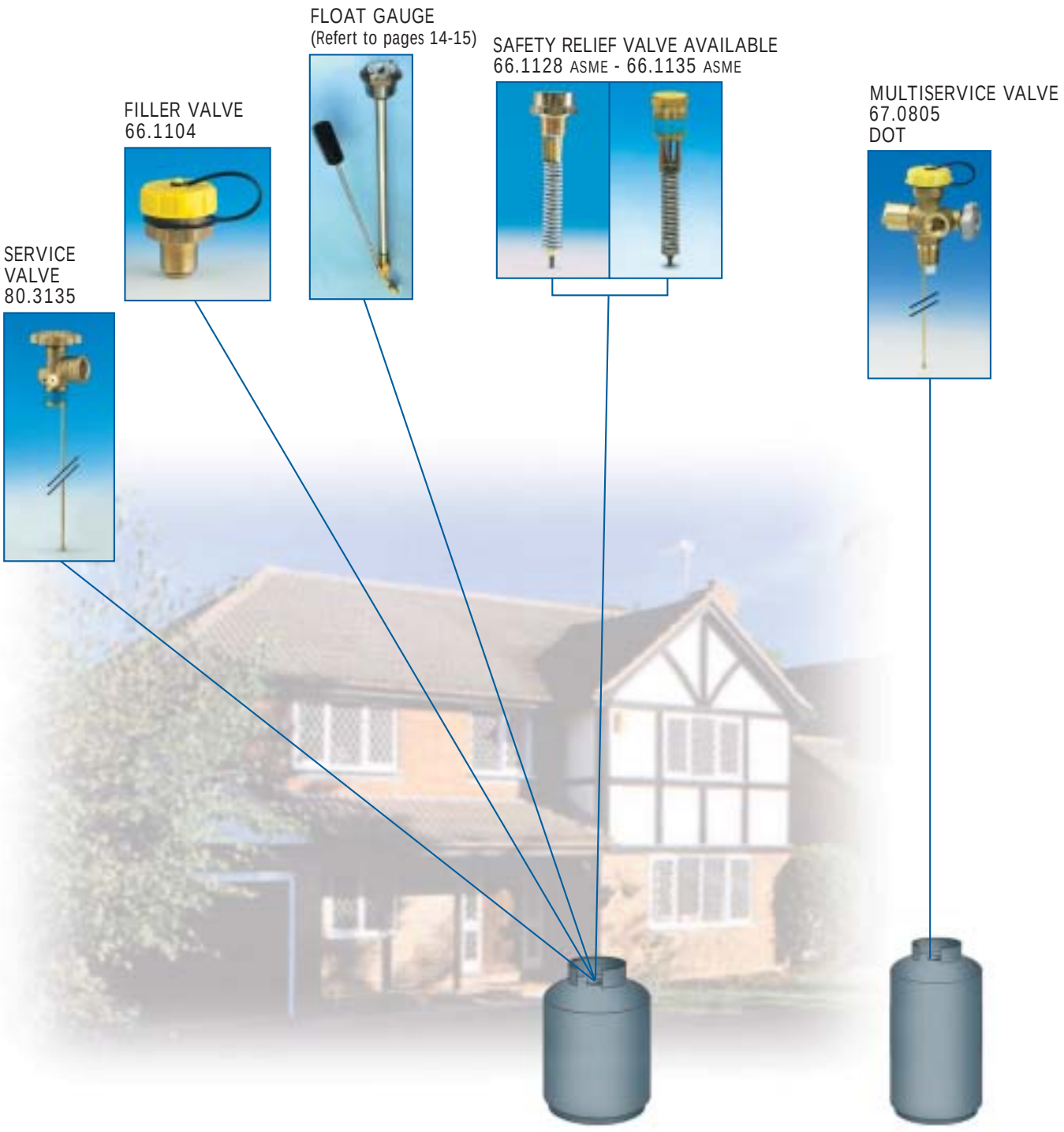
Type for	Colour Black
EU 20	10.0.110.5016
EU 25	10.0.110.5014
EU 30	10.0.110.5015



Bonded seals for external safety
valves with cylindrical thread.

Type for	Part number
EU 20	04.0.110.2573
EU 25	04.0.110.2570
EU 30	04.0.110.2574
VS 36	04.0.110.2588
VS 45	04.0.110.2587

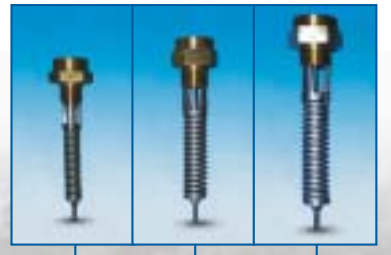
DOT ASME Cylinder Valve



EDITION JUNE 2005

Stationary tank installation

RELIEF VALVES
(depending on the tank size)
66.1128 66.1129 66.1130



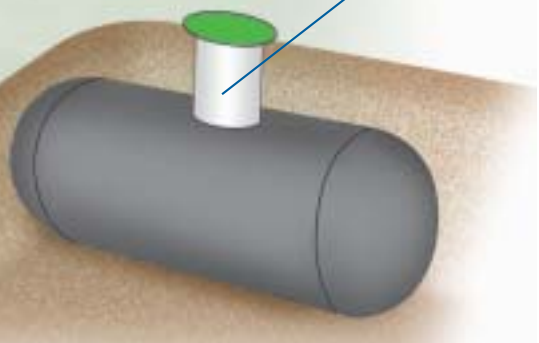
LIQUID WITHDRAWAL VALVE
69.0010

FLOAT GAUGE
(Refert to pages 14-15)

MULTISERVICE VALVE
67.0720

FILLER VALVE
66.1232 or 66.1106

67.0807



EDITION JUNE 2005

DOT fork lift truck containers

FLOAT GAUGE

SERVICE VALVE
80.2064

CONNECTOR
66.1024

CONNECTOR
66.1023

SAFETY RELIEF VALVE
66.0248

FILLER VALVE
66.1122

FIXED LEVEL GAUGE
Various DT lenghts

EDITION JUNE 2005

cavagna group

LPG VALVES & EQUIPMENT DIVISION

APPLICATIONS

Motor Fuel Tanks

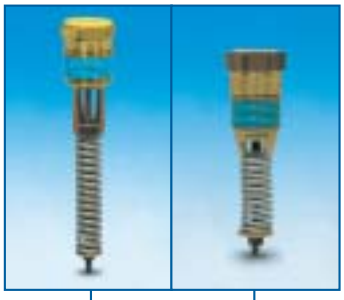
FILLER VALVE
66.1122

FILLER VALVE
with OPD

SERVICE VALVE
80.2062 or
80.2063

80.2146

SAFETY RELIEF VALVE
66.1135 - 66.1162 ASME



FIXED LEVEL GAUGE
Various DT lenghts

cavagna group

EUROPEAN

LPG TANK EQUIPMENT

CE APPROVED

Multiservice Valves

GS 50

67.0775 (above gr.)
67.0792 (undergr.)
Multiservice Valve equipped with a pressure gauge in glycerine bath, 0÷25 bar scale, and a fixed level gauge to ensure 80% of tank filling. It incorporates an excess flow valve, which closes when the flow reaches a rate of 37,5÷45 Kg/h propane (a first stage propane regulator with 40 Kg/h capacity and 1,5 bar setting point can be attached).

GSE 35

67.0776 (above gr.)
67.0794 (undergr.)
Multiservice Valve equipped with a pressure gauge in glycerine bath, 0÷25 bar scale, and a fixed level gauge to ensure 80% of tank filling. It allows optional installation of an outlet device with excess flow.

GS 41

67.0773 (above gr.)
Multiservice Valve with vertical outlet and fixed liquid level tube which ensures 85% max. filling of the tank. It incorporates an excess flow valve, which closes when the flow reaches a rate of 42÷54 Kg/h propane (a first stage propane regulator with 40 Kg/h capacity and 2 bar setting point can be attached).

GS 89

67.0774 (above gr.)
Multiservice Valve with vertical outlet and fixed liquid level tube which ensures 85% max. filling of the tank. It incorporates an excess flow valve, which closes when the flow reaches a rate of 42÷54 Kg/h propane (a first stage propane regulator with 40 Kg/h capacity and 2 bar setting point can be attached).

GS 90

67.0796 (above gr.)
Multiservice Valve with vertical outlet. It incorporates an excess flow valve, which closes when the flow reaches a rate of 42÷54 Kg/h propane (a first stage propane regulator with 40 Kg/h capacity and 2 bar setting point can be attached). It is a special underground fitting equipped with a pressure relief device that enables liquid discharge at 14 bar.

ORDERING INFORMATION

Part number	Container Connection	Outlet Connection	Excess flow device	Closing Flow-CE (Propane)	Wrench Grip (mm)	Fixed level gauges with dip tube	Master gauge insp. flange	Relief devices
67.0775 (GS 50 above gr.) 67.0792 (GS 50 undergr.)	3/4" – 14 NPT for both	W20x 1/14" LH for both	Inlet Built-in for both	Between 42-54 kg/h propane (1)	30 (square) for both	Available on all types with tubes in different lengths**	Yes Yes	N/a
67.0776 (GSE 35 above gr.) 67.0794 (GSE 35 undergr.)	3/4" – 14 NPT for both	885" – 14 NGO-LH-INT for both	Installed onto outlet connector		30 (square) for both		Yes Yes	N/a
67.0773 (GS 41 above gr.)	3/4" – 14 NPT	UNI ISO 228/1-G 3/4-B	Inlet Built-in		40 (hex.)		N/a	N/a
67.0774 (GS 89 above gr.)	1 1/4"– 11.5 NPT	UNI ISO 228/1-G 3/4-B	Inlet Built-in		40 (hex.)		N/a	N/a
67.0796 (GS 90 undergr.)	1 1/4"– 11 1/2 NPT	UNI ISO 228/1-G 3/4-B	Inlet Built-in		40 (hex.)		N/a	Liquid pressure relief valve(2)

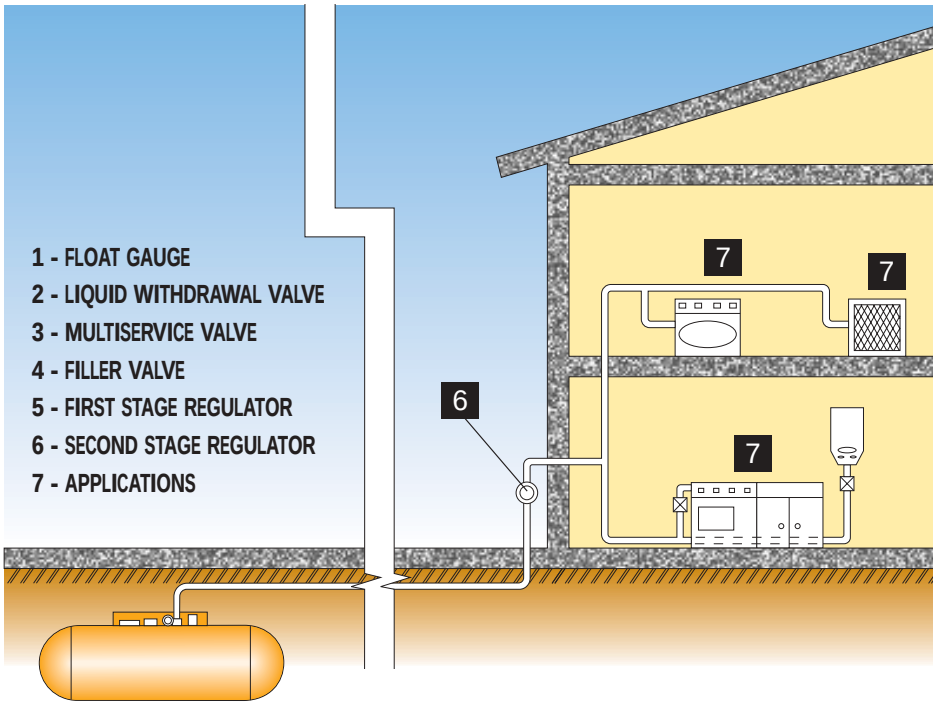
* see page ***Spe1***, item 16.0.950.0039/0052. Two models depending on the capacity required – please specify when ordering
** please specify length of dip tube, tank capacity and diameter when ordering
(1) Data valid when upstream pressure 2 bar and first stage 40 kg/h regulator connected – excess flow valve performance.
(2) Pressure relief device designed to discharge liquid in case of overpressure – The device starts to discharge liquid at 14 bar with a capacity of 1500 lt/h water.

EDITION JUNE 2005

CE APPROVED

Compact Underground Tank Set

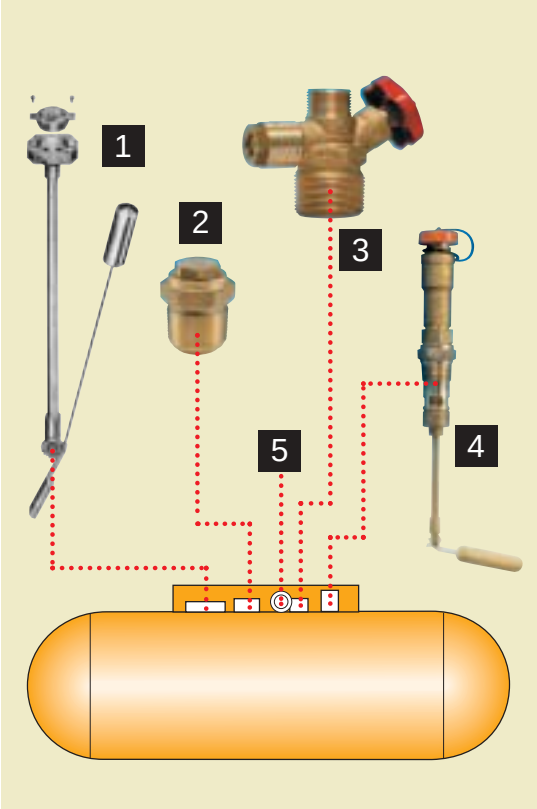
Spare a bung drill in your tank with this new concept installation set that makes the use of bulky pressure relief devices needless.



✓ **New Concept**

✓ **Easy On**

✓ **Low Impact**



2 LF-25 - 69.0004
Liquid withdrawal valve. (See page Ee1)

3 Mod. GS-90 - 67.0796 (undergr.)
Multiservice Valve (See page Ae1)
Multiservice Valve with built-in safety relief valve. When valve VRN-SL and service valve GS-90 are installed on underground tanks a traditional pressure relief valve could be needless. That is because underground tanks are not subject to fire engulfment. Our service valve GS-90 is equipped with a pressure relief device, which is enabled to discharge liquid at 14 bar (setting point).

4 Mod. VRN-SL - 66.1101
Extended filler valve designed with an 80% automatic overfilling prevention device. (See page Be3)

CE APPROVED

Filler Valves

VRN 90
66.1051

VRN 20L
66.1063

FEATURES

Double Back Check Construction - All Omeca filler valves are of the double back check construction where there are: (1) a soft seated up back check, and (2) a metal–to-metal lower back check seat.

Efficient Flow Characteristics - The efficient flow channel design of the valves gives low flow resistance, prolonging pump and hose life, and high filling capacity.

Two Piece Body Design

- All valves are CE approved
- Smaller filling upper chamber to avoid waste of liquid propane during every filling operation
- **VRN 20L - 66.1063** is designed to make underground tank installations more accessible to fillers.

Note: For replacement components, please refer to the end of the section.
66.1043 and 66.1063 are furnished with plastic blue caps with strap.
66.1051 is furnished with solid metal cap in brass.
- All our filler valves have a filling capacity ≥ 8 m^3 water Δp= 4 bar.

VRN 20
66.0.290.1043

ORDERING INFORMATION

Part number	Tank connection	Filler connection	Wrench Hex Flats	Propane liquid capacity at various differential pressure (GPM)			
				10 PSI	25PSI	50 PSI	75 PSI
66.1051 (VRN 90)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm	58	98	146	186
66.1063 (VRN 20L)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm	54	100	148	190
66.1043 (VRN 20)	1 1/4 - NPT	1 3/4 - MALE ACME	1 3/4"	54	100	148	190

EDITION JUNE 2005

CE APPROVED

Filler Valves with Manual Ball Shut-off Features

VRN 93
66.0221

VRN 88
67.0681

FEATURES

- Both these valves are double check filler valves where there are a soft seated upper back check and a (2) metal to metal lower back check seat
- In addition these filler valves incorporate an emergency ball shut-off valve
- These two versions can be used either for underground (VRN 88) or above ground LPG tanks (VRN 93) thanks to an oriented easy to connect design to the bobtail delivery truck
- Both valves are conforming British standards
- All our filler valves have a filling capacity ≥ 8 m^3 water Δp= 4 bar.

ORDERING INFORMATION

Part number	Tank connection	Filler connection	Wrench Hex Flats
66.0221 (VRN 93)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm
67.0681 (VRN 88)	1 1/4 - NPT	1 3/4 - 6 ACME	Es. 46 mm

CE APPROVED

Filler Valves with Overfilling Prevention Device

66.1101

Filler valve suitable for underground tank.
The extended body allows an easier refilling operation.

66.1106

Filler valve with high flow capacity suitable for above ground containers.
Specify tank size when ordering.

VRN SC-1200

66.1093
As the other valves that incorporates an OPD, this filler has in addition an extended filler valve with ball shut-off valve manually operated.

APPLICATION

These filler valves are designed for horizontal and vertical LPG containers.
All the valves are equipped with an antifilling prevention device.
Always specify type of tank (horizontal or vertical) diameter of the tank and location of the filler valve in the flange of the tank.

• All our filler valves have a filling capacity ≥ 8 m^3 water Δp= 4 bar.

ORDERING INFORMATION

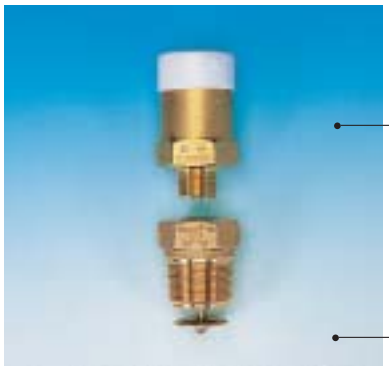
Part number	Tank Connection	Filler Connection	Wrench flat size	Specify tank dimension when ordering
66.1101	1 1/4" MNPT	1 3/4 ACME	1 3/4"	*
66.1106	1 1/4" NGT	1 3/4 ACME	1 3/4"	*
66.1093	1 1/4" NPT	1 3/4 ACME	1 3/4"	*

EDITION JUNE 2005

CE APPROVED

External Pressure Relief Valves

Designed for use as primary relief valves on ground and underground tanks.



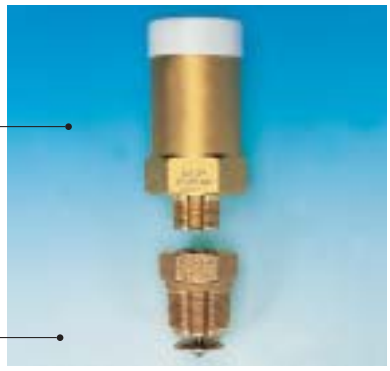
EU 19

70.0014

Pressure relief valve with conical thread between valve and lower check valve. Setting point: 17,65 bar.

ST 19

71.0005



EU 24

70.0008

Pressure relief valve with conical thread between valve and lower check valve. Setting point: 17,65 bar.

ST 24

71.0010

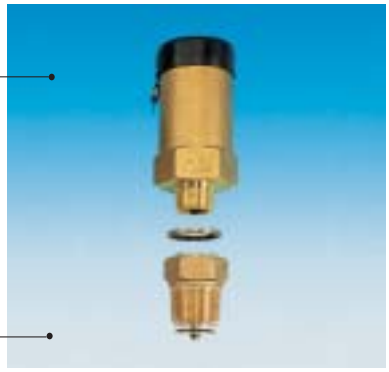
EU 20

70.0026

Pressure relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

ST 20

71.0016



EU 25

70.0205

Safety relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

ST 25

71.0000

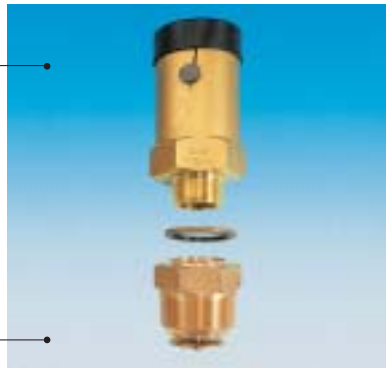
EU 30

70.0004

Pressure relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

ST 30

71.0004



EU 30

70.0004

Safety relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

ST 32

71.0011

ORDERING INFORMATION

Part Number*	Bottom Male Connection	Wrench grip hexagon (mm)	Thread type		Configuration suitable for this tank capacity:	PRV - Start to Discharge Setting (bar)	PRV - OVERPRESSURE 10% CAPACITY Nm³/min.	Approval	PRV Orifice (mm)
			taper	parallel					
70.0014 (EU 19) - ***PRV*** 71.0005 (ST 19) - ***CLD***	3/4" – 14 NPT 1 1/4" NPT	46 46	x x		1000 lt	Basic setting 17,65**	41,00	CE***	19,00
70.0026 (EU 20) - ***PRV*** 71.0016 (ST 20) - ***CLD***	3/4" NPSM 1 1/4" NPT	46 46	x	x			41,00		19,00
70.0004 (EU 30) - ***PRV*** 71.0004 (ST 30) - ***CLD***	1 1/4" NPSM 1 1/2" NPT	60 56	x	x	3000/5000 lt		107,00		29,50
70.0008 (EU 24) - ***PRV*** 71.0010 (ST 24) - ***CLD***	1" NPT 1 1/4" NPT	60 46	x x		1750 lt		78,00		23,50
70.0205 (EU25) - ***PRV*** 71.0000 (ST 25) - ***CLD***	1" NPSM 1 1/4" NPT or 1" NPT	60 46	x	x			78,00		23,50
70.0004 (EU30) - ***PRV*** 71.0011 (ST 32) - ***CLD***	1 1/4" NPSM 2" NPT	60 60	x	x	3000/5000 lt		107,00		29,50

OVERALL NOTE: All our configurations PRV+CLD are suitable for a temperature range [C°] – 40 ÷ 65.

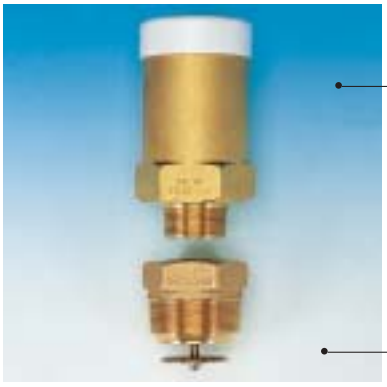
* ***PRV*** = Pressure Relief Valve and ***CLD*** = Check-lock Device
** please specify your requested setting pressure when ordering – various setting points available.
*** please enquiry our sales department for further local approvals – several national approvals available.

EDITION JUNE 2005

CE APPROVED

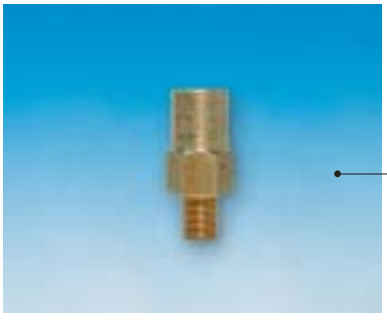
External Pressure Relief Valves

VS 60
70.0080
Safety relief valve with big capacity.



EU 29
70.0016
Pressure relief valve with conical thread between valve and lower check valve.
Setting point: 17,65 bar.

ST 29
71.0015



66.1139
Pressure relief valve for small containers and on-line pipe installations.
Setting point: 17,24 bar.

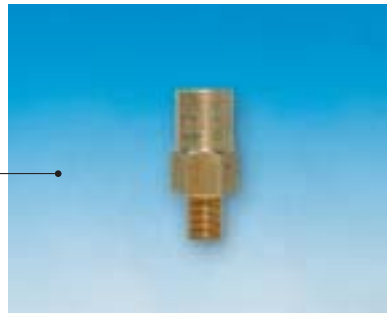
VS 367 17 bar
VS 368 18 bar
70.0020
70.0008
Pressure relief valve with a lower check valve available with different inlet threads.

ST 36
71.0.190.0026

VS 456 16 bar
VS 457 17 bar
70.0015
70.0031
Pressure relief valve with a lower check valve.

ST 45
71.0030

66.1140
Pressure relief valve for small containers and on-line pipe installations.
Setting point: 25,85bar.



ORDERING INFORMATION

Part Number*	Bottom Male Connection	Wrench grip hexagon (mm)	Thread type		Configuration suitable for this tank capacity:	PRV - Start to Discharge Setting (bar)	PRV-OVERPRESSURE 10% CAPACITY Nm³/min. (If not specified otherwise)	Approval	PRV Orifice (mm)
			taper	parallel					
70.0080 (VS 60) - ***PRV***	2 1/2" NPT	110	x		10000 lt.	basic 17,65**	260,00	CE***	45,00
70.0016 (EU 29) - ***PRV***	1 1/4" NPT	68	x		3000/5000 lt.	basic 17,65**	107,00		29,50
71.0015 (ST 29) - ***CLD***	2" NPT	60	x						
66.1139 - ***PRV***	1/4-18 NPT	22	x		-	17,24	18,41 (at 120%O.P.SCFM-AIR)	UL/ASME	19,00
70.0020/0008 (VS 367/368) - ***PRV***	M 36 x 2	60		x	1000 lt.	17 and18**	72,5 and 80,00	CE***	24,50
71.0026 (ST 36) - ***CLD***	1 1/4" NPT	52	x						
70.0015/0031 (VS 456/457) - ***PRV***	M 45 x 2	68		x	1750-3200 lt.	16 and 17**	N/a		29,50
71.0030 (ST 45) - ***CLD***	2" NPT	62	x						
66.1140 - ***PRV***	1/4-18 NPT	22	x		-	25,85	33,52 (at 120%O.P. AIR)	UL	19,00

OVERALL NOTE: All our configurations PRV+CLD are suitable for a temperature range [C°] – 40 ÷ 65.

* ***PRV*** = Pressure Relief Valve and ***CLD*** = Check-lock Device
** please specify your requested setting pressure when ordering – various setting points available.
*** please enquiry our sales department for further local approvals – several national approvals available besides CE-approval.

CE APPROVED

Liquid Withdrawal Valves

VL 13

Liquid withdrawal valve.

RL 15

72.0004
Liquid Transfer Valve to be used with our VL 13 and VLT 18. It incorporates an excess flow limiter.

VL 25

69.0005
Liquid withdrawal valve to be used with our RL 25 Liquid Withdrawal Valve.

RL 25

72.0025
Liquid Transfer Valve to be used with our VL 25. It incorporates an excess flow limiter.

RL 11

72.0029
Liquid Transfer Valve.

RRL 16 A-P

67.0797 / 0793
Liquid withdrawal valve complete with protection cap.

ORDERING INFORMATION

Part number	Container Connection	Outlet Connection	Closing Flow	Wrenching Grip (mm)
69.0008 (VL 13)	3/4" – 14 NPT	3/4" – 14 NPT (plugged)	N/a	35
69.0005 (VL 25)	1 1/4"– 14 NPT	M 25x1.5 (plugged)	N/a	46
72.0029 (RL 11)	3/4" – 14 NPT	M 20x1.5-6	N/a	28 (square)
72.0004 (RL 15)	3/4" – 14 NPT	M 30x1.5	See**	28 (square)
72.0025 (RL 25)	M 25x1.5	M 30x1.5	See**	32 (square)
67.0793 (RRL 16)	3/4" – 14 NPT (with*/without* tube threading 3/4" 28UN-2B for dipping)	3/4" – 14 NPT (with plug cap)	N/a	34 (square)

* please specify when ordering
** Data valid when upstream pressure is 2 bar - excess flow device performance equal to 28-30 Nm^3/h air.

EDITION JUNE 2005

CE APPROVED

Liquid withdrawal valves

VLT 18

69.0020

Liquid withdrawal valve with dip tube available in different lengths according to various tank sizes, to be used in connection with our RL 15 Liquid Withdrawal Valve.

NEW DESIGN

LF 14

69.0038

Liquid withdrawal Excess Flow Valve. Performance: excess flow closes 25.5÷3 m^3/h (water); residual flow ≤ 0.020 m^3/h (water) with ΔP +1 bar

VLF 14-C

69.0019

Liquid withdrawal Excess Flow Valve.

LF 25

69.0004

Liquid withdrawal Excess Flow Valve.

VLF 25C

69.0040

Liquid withdrawal Excess Flow Valve. Performance: excess flow closes 25.5÷3 m^3/h (water); residual flow ≤ 0.020 m^3/h (water) with ΔP +1 bar

ORDERING INFORMATION

Part number	Container Connection	Outlet Connection	Closing Flow	Wrenching hex. Grip (mm)
69.0020 (VLT 18)	3/4" – 14 NPT	3/4" – 14 NPT (plugged)	N/a	35
69.0038 (LF 14)	3/4" – 14 NPT	26x1.814 - NF E 03-001	See***	36 (hex.)
69.0019 (VLF 14-C)	3/4" – 14 NPT	W 26x1.814 (plugged)	See**	35
69.0004 (LF 25)	1 1/4"– 14 NPT	W 26x1.814 (plugged)	See*	46 (hex.)
69.0040 (VLF 25C)	1 1/4"– 14 NPT	3/4" – 14 NPT	See*	46

* Data valid for ΔP = 1 bar – excess flow device performance equal to 4,5÷5,5 m^3/h water with residual flow ≤ 0,050 m^3/h.
** Data valid for ΔP = 1 bar – excess flow device withdrawal performance equal to $2,5^{+0,5}$ m^3/h water with residual flow ≤ 0,050 m^3/h.
*** Data valid for ΔP = 1 bar – excess flow device withdrawal performance equal to $2,5^{\pm 0,5}$ m^3/h water with residual flow ≤ 0,050 m^3/h

LPG Float Gauges

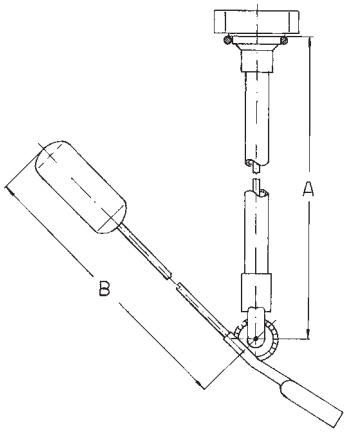
Product was redesigned to provide comprehensive up-dating as well as a 100% operating efficiency.
Our LPG float gauge can also provide full performance even under the following critical conditions:

a when humidity for any reason is found within the LPG tank.
b when the transmission components are subjected to very low temperatures.

The indicator is complete with plastic cover, or gasket and stainless steel screws.
All gauges can be manufactured in brass or in zamac.
Available also with metal cover.
Customized float gauges can be supplied on demand.

LPG Float Gauges with 4 Screws

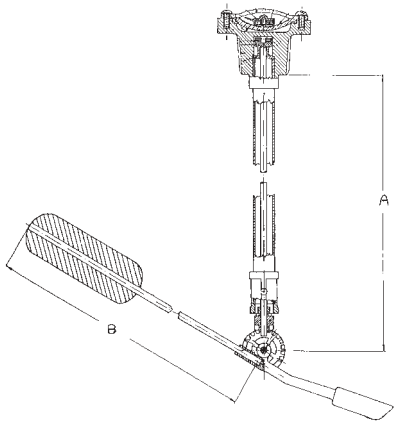
LPG FLOAT GAUGES WITH 4 SCREWS							
ART	TANK					dimensions	
	ø INCHES	ø mm.	type	gallons	litre	A	B
2069.U.	24"	609,60	horizontal	120	454,25	338	285
2070.U.	30"	762,00	horizontal	250/320	946,35/1.211,328	412	360
2171.U.	37"	939,80	horizontal	500	1.892,70	510	438
2072.U.	41"	1.041,40	horizontal	1000	3.785,40	553	477
2073.U.	48"	1.219,20	horizontal			612	535
2075.U.	30"	762	vertical			640	430



LPG Float Gauges with Thread

LPG FLOAT GAUGES WITH THREAD 1"							
ART	TANK					dimensions	
	ø INCHES	ø mm.	type	gallons	litre	A	B
2069.U.1"	24"	609,60	horizontal	120	454,25	338	285
2070.U.1"	30"	762,00	horizontal	250/320	946,35/1.211,328	412	360
2171.U.1"	37"	939,80	horizontal	500	1.892,70	510	438
2072.U.1"	41"	1.041,40	horizontal	1000	3.785,40	553	477
2073.U.1"	48"	1.219,20	horizontal			612	535
2075.U.1"	30"	762	vertical			640	430

LPG FLOAT GAUGES WITH THREAD 1" 1/4							
ART	TANK					dimensions	
	ø INCHES	ø mm.	type	gallons	litre	A	B
2069.U.1"1/4	24"	609,60	horizontal	120	454,25	338	285
2070.U.1"1/4	30"	762,00	horizontal	250/320	946,35/1.211,328	412	360
2171.U.1"1/4	37"	939,80	horizontal	500	1.892,70	510	438
2072.U.1"1/4	41"	1.041,40	horizontal	1000	3.785,40	553	477
2073.U.1"1/4	48"	1.219,20	horizontal			612	535
2075.U.1"1/4	30"	762	vertical			640	430



EDITION JUNE 2005

Tank Equipment Spare Parts

The manufacturer declines all responsibility
for incorrect use or application.
We recommend to use original parts
or to replace the whole valve.

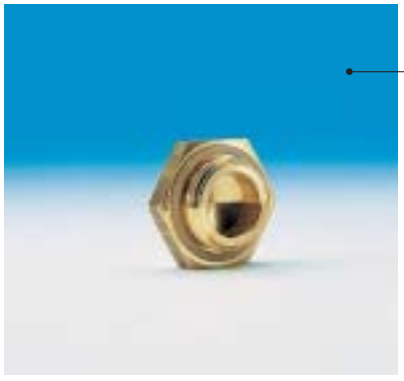
Pressure gauge in glycerine bath.
Scale 0-25 bar.
Connection: 1/4" NPT.

Type connection	Part number
Back side	30.0.110.0179
Radial	30.0.110.0180

Connection devices with excess flow check valve built in to be used with the multivalve GSE 35.

16.0.950.0039
(capacity 50 Kg.)

16.0.950.0052
(capacity 95 Kg.)



Plug with gasket for Liquid Withdrawal Valve.

Type for	Part number
VLT 18 - VL 13	10.0.950.0080
VLF 14 - VLF 25	10.0.950.0082

Connection for steel pipe (to be welded), applicable to RL 15 - RL 25 Cylinder Valves.

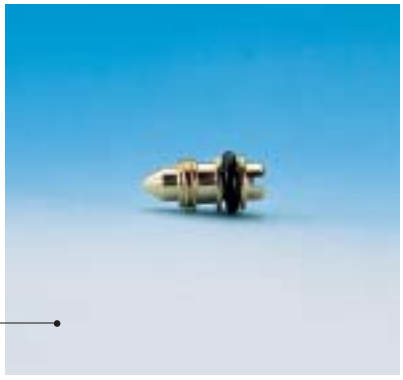
16.0.950.0026

Cap with ACME threading.

Type for	Part number	colour
VRN14/20	10.0.950.0064	blue
GSE 35/38	10.0.950.0062	blue

Vent stem.
(GSE 35 -GS 50)

03.0.950.0145



Plastic rain caps for Safety Valves.

Type for	Colour White
EU 19	10.0.110.5012
EU 24	10.0.110.5011
EU 29	10.0.110.5013

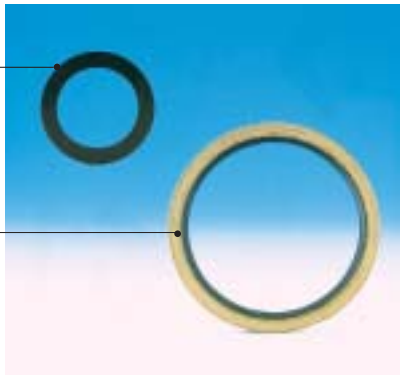
Type for	Colour Black
EU 20	10.0.110.5016
EU 25	10.0.110.5014
EU 30	10.0.110.5015

Rubber gasket for ACME thread cap.

Type for	Part number
VRN	04.0.110.2565
GSE	04.0.110.2578

Bonded Seals for Safety Valves with cylindrical thread.

Type for	Part number
EU 20	04.0.110.2573
EU 25	04.0.110.2570
EU 30	04.0.110.2574
VS 36	04.0.110.2588
VS 45	04.0.110.2587



Stationary Tank Installation

FLOAT GAUGES
(Refer to page He1)

RELIEF VALVES
(depending on the tank size)
(Refer to pages Ce1 - Ce2)

LIQUID WITHDRAWAL VALVES
(Refer to pages Ee1 - Ee2)

MULTISERVICE VALVES
(Refer to pages Ae1 - Ae2)

FILLER VALVES
(Refer to pages Be1 - Be2 - Be3)

Cavagna group

LPG VALVES & EQUIPMENT

DIVISION

LPG CYLINDER VALVES

Please be so kind to verify with us approvals, accessories (tubes, tubes materials, tubes fixing, anti-filling devices, tools for anti-filling devices, caps, sealants and settings) and optional features. Approvals of any kind have to be expressly specified on orders or enquires.

The range of photos shown is indicative.
Please contact LPG VALVES & EQUIPMENT DIVISION Staff to find a product suitable for each specific market.

For orders please refer to:

cavagna group
omeca
Kosan® INTERNATIONAL

tel. +39 030 9663.111 - fax +39 030 9969014
Website: www.cavagnagroup.com
E-mail: omeca@cavagnagroup.com

German LPG Cylinder Valves

NOW π certified

80.6019

80.6.790.6019
Open-close handwheel valve with pressure relief device.
DIN KLEIN
BAM - APPROVED
π - APPROVED
15 years reconditioning

80.6018

80.6.790.6018
Heavy duty valve with pressure relief device for 33 Kg. LPG cylinders.
DIN GROSS
BAM - APPROVED
π - APPROVED
15 years reconditioning

80.3023

80.6.490.3023
FLT cylinder valve for liquid withdrawal up to 33 Kg. LPG cylinders.
DIN GROSS
BAM - APPROVED
π - APPROVED
15 years reconditioning

80.3024

80.6.490.3024
FLT cylinder valve for liquid withdrawal up to 11 Kg. LPG cylinders.
DIN KLEIN
BAM - APPROVED
π - APPROVED
15 years reconditioning

ORDERING INFORMATION

Part number	Cylinder Connection	Outlet Connection	Normal Application	Liquid Level Gauge	DT length	Relief Setting	15 years reconditioning	π Mark
80.6019	DIN 477 KLEIN	W 21,8 x 1/14" LH DIN 477 N°2	UP to 11 Kg.	No	No	35 bar	Yes	Yes
80.6018	DIN 477 GROSS	W 21,8 x 1/14" LH DIN 477 N°1	UP to 33 Kg. Cylinders	No	No	35 bar	Yes	Yes
80.3024	DIN 477 KLEIN	W 21,8 x 1/14" LH DIN 477 N°1	FLT	No	120 mm	no	Yes	Yes
80.3023	DIN 477 GROSS	W 21,8 x 1/14" LH DIN 477 N°1	FLT	No	127 mm	No	n/a	Yes

EDITION JUNE 2005

German
LPG Cylinder Valves

NOW π certified

80.6101

80.6.790.6101
LPG cylinders valve
for welding application.
Vaious lengths of tubes.
DIN KLEIN
DEGASSING SCREW
BAM - APPROVED

ORDERING INFORMATION

Part number	Cylinder Connection	Outlet Connection	Normal Application	Liquid Level Gauge	DT length	Relief Setting
80.6101	DIN 477 KLEIN	G 3/8" LH DIN 477	Welding Cylinders	Yes	45 mm	35 bar

LPG Handwheel Valves

NOW π certified

80.8066

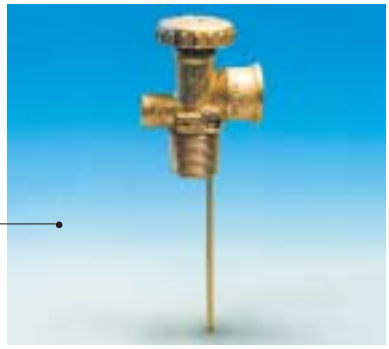
80.0.890.8066
POL valve for 10 kg cylinders.

80.4009

80.0.590.4009
POL cylinder valve with pressure relief valve.

80.5024

DOT cylinder valve for vapor up to 100 Lbs LPG capacity.



80.4002

80.0.590.4002
POL valve with pressure relief valve with fixed liquid level tube.

80.6033

80.0.790.6033
POL valve with pressure relief valve for 240 Lbs propane cylinders.
Available also with fixed liquid level gauge.

80.5038

80.0.690.5038
Propane cylinder valve.

80.1174

80.6.290.1174
Cylinder valve inlet DIN GROSS
outlet ø 21.8 mm.

80.5018

80.0.690.5018
POL valve with pressure relief valve for 120 Lbs propane cylinders.

80.4001

80.0.590.4001
Cylinder valve with single orbital locking pin, safety relief valve and plastic dip-tube.

80.5013

80.0.690.5013
Cylinder valve with pressure relief valve capacity 10 m^3/minute.

LPG Handwheel Valves

The wide acceptance of Omeca cylinder valves is based on their reliable performance as well as their reputation for engineering and manufacturing excellence.
Omeca utilize seat discs and stem seals which resist deterioration and provide the kind of reliable service required for L.P. GAS, hand-tight closings and a faster filling cylinder valve.

NOW π certified

80.1059

80.6.290.1059
Open-close valve.
Available in several sizes of outlets and inlets.

80.1002

80.0.290.1002
Open-close valve with POL outlet.
Available in different inlet sizes.

80.2051

80.0.390.2051
O-F valve
with excess flow.
Available in different inlet sizes.

80.1056

80.0.290.1056
O-F valve
as 2051 but without excess flow.

80.8010

80.0.890.8010
Open-close valve with vertical outlet and side handwheel, available in different sizes of outlets and inlets

80.3012

80.0.490.3012
O-F valve with fixed liquid level tube.

80.6019

80.0.790.6019
Auf-zu valve
with pressure relief valve.
DIN KLEIN.
In compliance with BAM Specifications.

80.6018

80.0.790.6018
Auf-zu valve with pressure relief valve.
DIN GROSS.
In compliance with BAM Specifications.

LPG Handwheel Valves

NOW π certified

80.4014

80.0.590.4014
Open-close valve with pressure relief valve for small size propane cylinders. Available with several inlets and POL outlets.

80.2122

80.0.390.2122
Cylinder valve
with rubber flow limiter

80.3098

80.6.490.3098
Cylinder valve
with dual locking pins
and brass dip tube.

80.3037

80.0.490.3037
Cylinder valve
with single orbital locking pin and brass dip tube.
Various inlets and outlets.

62.0014

62.6.290.0014
Cylinder valve
with dual locking pins
locking pin.
Various inlets
and outlets.

80.1019

80.0.290.1019
LP Cylinder valve
with seal gasket
on the outlet.

80.2120

80.6.390.2120
Cylinder valve
with flow limiter.

62.0128

Cylinder valve
with dual locking pins
and flow limiter.
Various inlets and outlets.

62.0504

62.6.390.0504
Cylinder valve
with dual locking pins,
flow limiter and gasket
on the outlet. Various
inlets and outlets.

80.1045

80.6.290.1045
Cylinder valve
inlet DIN GROSS.
Outlet ø 20 mm.

EDITION JUNE 2005

LPG Jumbo Valves

NOW π certified

66.0071

66.8.290.0071
"Jumbo" valve
with safety relief.
Various settings available.
19,8 x 1/4" DIN 477 inlet.

66.0205

66.8.290.0205
"Jumbo" valve
with safety relief.
Various inlets.
Various pressure
settings available.

66.0277

66.0.290.0277
One piece
"Jumbo" valve.
Various inlets.
Without pressure
relief valve.

66.0241

66.0.290.0241
"Jumbo" valve with fusible plug.
Valve designed to be used
with the new technology
cylinders in composite and/or
aluminium materials.
28,8 x 1/4" DIN 477 inlet.
With pressure relief device.

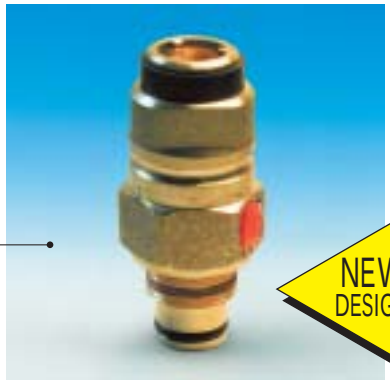
NEW DESIGN

66.0064

66.8.290.0064
"Jumbo" valve
with safety relief valve.
Inlet thread
M24 x 1,5 (parallel)

66.0034

66.8.290.0034
Parallel thread inlet.
Special series for
composite cylinders



NEW DESIGN

10.0058

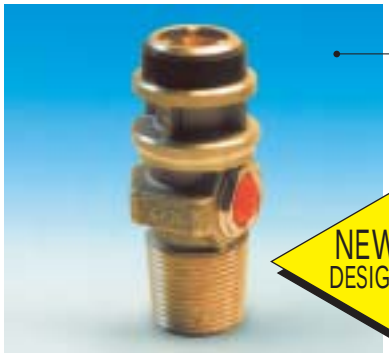
Black cap.
Standard
protection cap.

10.0057

Blue cap.
Special protection
cap with cold-resistance
for low temperatures.

LPG Jumbo Valves in one piece with Safety Relief Cartridge

NOW π certified



NEW DESIGN

66.0038 (A)

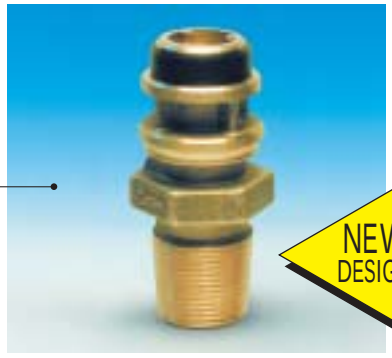
66.8.290.0038

One-piece "Jumbo" with safety relief valve cartridge. Various inlets/outlets and setting pressures.

66.0038 (B)

66.8.290.0038

One-piece "Jumbo" without pressure relief device. Various inlets/outlets.



NEW DESIGN

10.0058

Black cap. Standard protection cap.

10.0057

Blue cap. Special protection cap with cold-resistance for low temperatures.

Flat Top Dirt-Free Jumbo Valves

NEW

- ✓ Real flat top New Concept
- ✓ Dirt protection
- ✓ Makes additional dust & protection caps useless

66.0074

66.8.290.0074

1) One piece Jumbo with or without Safety Relief cartridge. Various inlets/outlets and settings pressure where applicable.

2) It incorporates new design by CAVAGNA with top flat surface without any niches so that sediments, dirt, sand, dust or dangerous particles are not allowed to obstract the main seal of the valve;

3) The absence of parts protruding from the top flat prevents accidental opening. The valve gets activeted only when regulorly coupled with corresponding and conforming regulator.

4) The materials of the dust plug (stainless steel) and of the top rubber ring (high stamina against atmospheric agents) are tested for long duration and endurance.

5) The flat top configuration is totally compatible with shrink sleeves and makes the use of plastic caps redudant, this allowing or considerable saving.

LPG Snap-tight and Bayonet Valves

NOW π certified

66.0131

66.0.290.0131
Dual sealing valve with safety relief. Outlet 27 mm, various inlets.

66.0132

66.0.290.0132
Dual sealing valve. Outlet 27 mm, various inlets with flow limiter.

66.0259

66.0.290.0259
Quick-on valve outlet 27 mm, various inlets.

66.0135

66.0.290.0135
Bayonet valve various inlets with flow limiter.

66.0136

66.0.290.0136
Bayonet valve with safety relief, various inlets with anti-debris tube.

66.0287

66.0.290.0287

LPG Quick-on Valves

NOW π certified

66.0049

66.0.290.0049
"Quick-on" valve
with pressure relief valve.
Outlets Ø 20-21-22 mm,
various inlets.
Available with
anti-debris tube.

66.0022

66.9.290.0022
Compact quick-on
valve without pressure
relief device.
Various inlets; ø 20, 21
and 22 mm outlets.

66.0067

66.8.290.0067
"Quick-on" valve with
plastic dip-tube without
pressure relief valve.
Available with
anti-debris tube.

66.0005

66.8.290.0005
Compact quick-on valve
with pressure relief device
(various settings).
Various inlets; ø 20, 21
and 22 mm outlets.

66.0035

66.8.290.0035
Quick-connection valve.
With safety relief valve.
Various inlets/outlets.
Possibility of customising
the setting pressure.
Quick-on PRV 10 m^3

EDITION JUNE 2005

Flat Top Dirt-Free LPG Quick-on Valves

NEW

NOW π certified

V10 A series

Quick-on valve with flat top, full dirt protection without pressure relief valve. Various inlets/outlets.

V10 B series

Quick-on valve with flat top, full dirt protection with pressure relief device (various settings).

- ✓ ***Real flat top New Concept***
- ✓ ***Dirt protection***
- ✓ ***Makes dust & protection caps useless***

1) One piece Quick-on valve with or without Safety Relief cartridge. Various inlets/outlets and settings pressure where applicable.

2) It incorporates new design by CAVAGNA with top flat surface without any niches so that sediments, dirt, sand, dust or dangerous particles are not allowed to obstract the main seal of the valve;

3) The absence of parts protruding from the top flat prevents accidental opening.
The valve gets activeted only when regulorly coupled with corresponding and conforming regulator.

4) The materials of the dust plug (one piece massive brass drive cursor) and of the top rubber ring (high stamina against atmospheric agents) are tested for long duration and endurance.

5) The flat top configuration is totally compatible with shrink sleeves and makes the use of plastic caps redudant, this allowing or considerable saving.

LPG Quick-on Valves

NOW π certified

66.0001

66.8.290.0001
"Quick-on" valve.
Outlets Ø 20-21-22 mm,
various inlets
with plastic cap.

66.0060

66.0.290.0060
Snap-on valve
Self-closing valve with
built-in safety valve.
This valve combining with
RECA regulator guarantees
constant outlet pressure,
indipendent of cylinder
pressure and of through-put.
Available with different
inlet thread sizes.

66.0013

66.8.290.0013

66.0051

66.8.290.0051

66.0054

66.8.290.0054

For the Best Performance Quick-On System Cavagna Group Valves and Regulators

NOW π certified

In many countries of the world the old system of manual connection of the regulator to the valve has been replaced by a quick on system allowing a consistent safe connection for the consumer without the need for tools.
This system makes possible an easier vertical filling operation.
Please contact our Regulators Division (RECA) for additional information on regulators range of products.

Compact Quick-On 634

Low Pressure single stage regulator, with not-adjustable setting equipped with a fitting suitable for automatic quickon valves Ø 20, 21, 22, 27 mm and bayonet type.
The Compact Quick-On model has a compact and ergonomic shape, easy to handle and to use.
The regulator is mounted directly onto the gas cylinder, connecting it with an easy pressure onto the automatic valve.
The regulator is connected onto the automatic valve turning the lever in the ON position.
Generally all the models Compact Quick - On are equipped with a special thermic safety device (thermofuse), stopping the gas flow in case a fire arises.
On demand, it is possible to assemble an excess flow: a special device able to stop the gas flow in case the hose is suddenly disconnected from the gas appliance.

Quick-On System

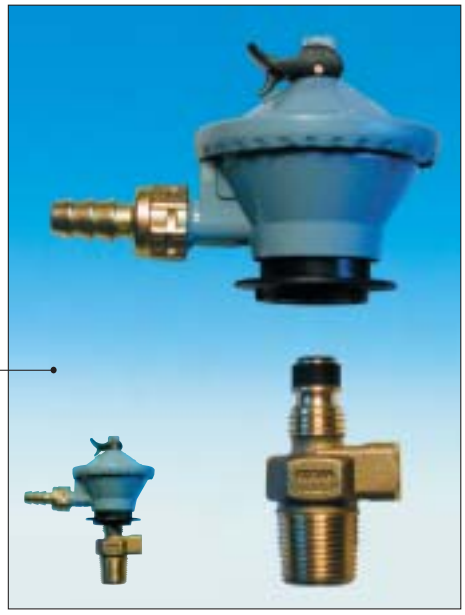
NOW π certified

Jumbo 58

Low Pressure double stage regulator with non-adjustable setting with fitting suitable for automatic valves Ø 35 mm. On demand, it is possible to assemble an excess flow and a OPSO device (safety relief valve), in order to avoid any overpressure.

Jumbo High Pressure 84

High Pressure Regulator with adjustable setting with fitting suitable for automatic valves Ø 35 mm



Kosanova 59

Low Pressure double stage regulator with non-adjustable setting with fitting suitable for automatic valves Ø 16 mmand 19 mm. On demand, it is possible to assemble an excess flow and a OPSO device (safety relief valve).

Type 511 horizontal

QUICK ON CYLINDER COUPLING Ø 20 - 21 - 22 mm On/off without pressure regulation. Horizontal.

Type 511 vertical

QUICK ON CYLINDER COUPLING Ø 20 - 21 - 22 mm On/off without pressure regulation. Vertical.

Fork Lift Truck and Carburation Valves

Omeca is introducing a new technology on the valve with dip tube for liquid withdrawal. To overcome all wellknow problems with copper or brass dip tube, we introduce a new polyamide dip tube with hi-tech performance. Fully compatible with LPG, these will be the second generation of carburation valves

NOW π certified

00.0000

00.0.000.0000
Quick-on safety adapter for FLT application.

80.3014

80.0.490.3014
FLT valve with flow limiter. Various inlets and outlets.

80.3072

80.0.490.3072
FLT valve
European version with flow limiter, POL outlet. Various inlets.

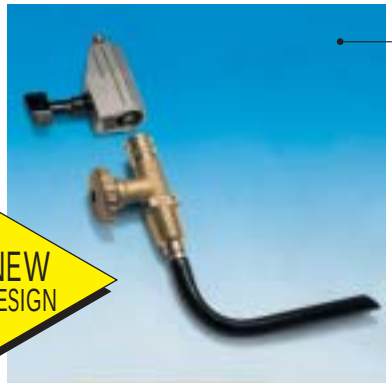
NEW DESIGN

80.8162

80.0.890.8162

80.3105

80.0.490.3105
FLT valve
Staubli outlet with flow limiter.



NEW DESIGN

80.8162 Kit

80.0.890.8162
Bi-check FLT service valve with quick-on outlet connection (various sizes). With excess flow valve Available with dedicated adaptors.

80.3102

80.0.490.3102
FLT valve
with excess flow with 5 L/min propane.

67.0787

67.0.490.0787
Dual valve
with safety relief and flow limiter.
Various inlets, ACME outlet.

80.3113

80.0.490.3113
2nd generation
FLT valve.
Outlet with quick connection.

Fork Lift Truck and Carburation Valves

NOW π certified

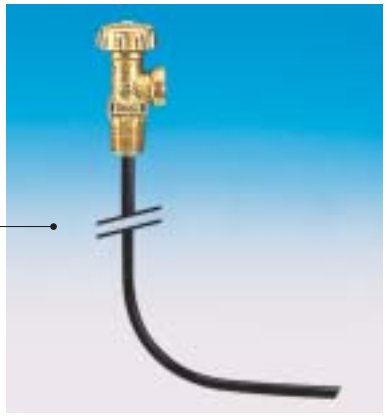
80.3024

80.0.490.3024
New 2nd generation
FLT valve.

NEW DESIGN

80.3028

80.0.490.3028
FLT valve
with long Pipe
outlet 3/4 GG.



80.2064

80.0.390.2064
FLT service valve
with flow limiter.
Various inlets and outlets.

UL

80.2062

80.0.380.2062
FLT service valve
with flow limiter.
Various inlets and outlets.

66.1072

66.0.290.1072
Fixed liquid level gauge.
Available with different
dip-tube lenghts.
An optional instruction
plate may be ordered for
use with these valves.

UL

Fork Lift Truck and Carburation Valves

NOW π certified

80.3145

80.0.490.3145
New European FLT valve with short dip tube DIN 477 outlets and various customisable

NEW DESIGN

80.8060

80.0.890.8060
Liquid withdrawal valve with flow limiter. Vertical application.

NEW DESIGN

67.0779

67.0.490.0779
Dual valve with safety relief and flow limiter. Various inlets, male outlet.

80.8021

80.0.890.8021
FLT valve with safety relief and flow limiter. Various inlets and outlets. Vertical and orizontal application.

NEW DESIGN

Lift Truck Connectors

These brass connectors are designed to join the carburator fuel line to the service valve on FLT.

66.1024

66.0.290.1024
Half coupling ACME.
- For installation on LP gas engine fuel lift truck systems.

Part number	Application	Intlet	Outlet
661024M	Service Valve	3/8" F.NPT	1 1/4" M.ACME
661023F	Fuel Line	1 1/4" F.ACME	1/4" F.NPT

66.1023

66.0.290.1023
Female coupling ACME.
- For installation on LP gas engine fuel lift truck systems.
- Both connectors automatically close when disconnected.

LPG Cut-Off Valves

V641

64.0.190.0164
Stop valve.

64.0003

64.0.490.0003
"Push and turn"
stop valve.

64.0043

64.0.490.0043
"Push and turn"
stop valve
double version.

80.0501

80.6.190.0501
Piston type
stop valve.
Various sizes.

80.0003

80.6.190.0003
Piston type side entry
stop valve 90° F. M.

6404

Needle valve.
Various sizes.

64.0026

64.0.490.0026
"Push and turn"
stop valve,
triple version.

IM68

Switch "on-off"
3-way valve,
various sizes.

80.0512

80.6.190.0512
Piston type
stop valve.
Various sizes.

LPG Camping Cylinder Valves

NOW π certified

64.0203

64.0.290.0203
Volume filling valve
with safety relief.

64.1091

64.0.390.1091
3-way camping valve
with degassing screw.
Various inlets and outlets.

64.0253

64.0.290.0253
5-ways camping valve
with safety relief
and degassing screw
for volume filling.
Various inlets and outles.

64.0266

64.0.290.0266
Camping valve without
degassing screw
and with safety
relief device.

64.2028+68.0043

Camping cylinder
ball valve
with handle and gasket.
Outlet: 16x1,5.

64.4602

64.6.090.4602
Spindle actived
camping cylinder valve.

64.2001

64.0.590.2001
Hexagonal camping
cylinder ball valve.
Outlet: 14x1,5.
Primus type.

LPG Camping Cylinder Valves

NOW π certified

64.0106

64.0.190.0106
Camping valve with gasket. Various inlets and outlets.

64.0124

64.0.190.0124
3-way camping valve for cartridges. Various sizes of inlet and outlet.

64.1089

64.0.390.1089
Camping valve for volume filling with degassing screw.

64.2044

64.6.590.2044
Round camping cylinder valve outlet 16x1,5.

64.4500

64.0.790.4500
Needle valve for gas heaters. Available with various nozzle sizes for different capacities.

64.0310

64.0.390.0310
Camping cylinder valve with degassing screw.

64.0313

64.0.390.0313
Camping cylinder valve with degassing screw.

cavagna group

LPG VALVES & EQUIPMENT

DIVISION

REFRIGERANT GASES VALVES

Please be so kind to verify with us approvals, accessories (tubes, tubes materials, tubes fixing, anti-filling devices, tools for anti-filling devices, caps, sealants and settings) and optional features. Approvals of any kind have to be expressly specified on orders or enquires.

For orders please refer to:

cavagna group

omeca

tel. +39 030 9663.111 - fax +39 030 9969014
Website: www.cavagnagroup.com
E-mail: omeca@cavagnagroup.com

RUS series
Compact Refrigerant Recovery Valves
O-Ring Style Cylinder Valves for Refrigerant Gases Liquid/Vapor

NOW π certified on demand

Key features

- Tamper proof gland nut cannot be removed
- Hot forged body manufactured by Cavagna Group
- Non-refillable outlet feature, protects cylinder from contamination
- All valves are 100% leak test to full cylinder service pressure
- Complies with all New European Standards (π marked)
- Hose barb supplied for easy attachment of Dip Tube
- All valves U.L. listed
- CGA-7 pressure relief devices - various settings available
- Various soft seat materials assures positive leak tight shut-off
- Inlet threads available with ever seal insuring leak tight cylinder connection and reduced friction during installation

Specifications

Maximum working pressure	500 PSI
Temperature operating	-40 +65 °C -75F to 150F
Flow Capacity (CV)	n/a
Minimum Cycle Life	6000
Discharge flow capacity of PRD	208 CFM Air @ 450 PSI

Materials

Valve Body	Brass EN 12165 alloy
PRD	CGA-7 Spring Loaded
Hand wheel	Plastic
Seat	Various
O-Rings	Various CR

Conforming of the requirements of European Community

CGA V 9	Standard for Gas Cylinder Valves
CGA S-1.1	Standard for Pressure Relief Devices
CGA V-1	Compressed Gas Cylinder Valve Outlet and Inlet Connections

ORDERING INFORMATION

Part No.	CGA Outlet	Outlet Single/Dual	Outlet Thread Size	Inlet Thread Size	PRD Set Pressure	Dip Tube Length
76.0190		Single	1.030-14 NGO RH Ext.	3/4" NPT	450 PSI	barb
76.0191		Single	W 21,7 x 1/14"	W28,8 - DIN 477	450 PSI	barb

Various configurations available for your country. Please refer to sales office of OMECA Division.

EDITION JUNE 2005

cavagna group

LPG VALVES & EQUIPMENT DIVISION

RDU series
Diaphragm Packless Multivalves for Refrigerant Gases

NOW π certified on demand

Key features

- Hot forged brass body according to EN12165 alloy manufactured by Cavagna Group
- Diaphragm packless style valves
- Inlet and outlet connection comply with CGA specifications
- UL approved
- Available single or dual outlet

Materials

Valve Body	Brass
Handwheel	Plastic
Diaphragm	Stainless steel
Spring	Stainless steel
Spring Retainer	Brass
PRD seal cap	Plastic
DT connection	Brass

Options

- Various Dt lengths and materials
- Inverted Handwheels for liquid and vapour
- PRD seal cap
- Pressure relief device cartridge style
- Stainless steel body for special applications

Conforming with requirements of TPED (EN 849)

ORDERING INFORMATION

Part No.	CGA Outlet	Outlet Single/Dual	Outlet Thread Size	Inlet Thread Size	PRD Set Pressure	Dip Tube Length	Antifilling device
76.0234	660	Single	1.030-14 NGO RH EXT	3/4 - 14 NGT	800 PSI	n/a	no
76.0233	660	Single	1.030-14 NGO RH EXT	3/4 - 14 NGT	600 PSI	n/a	no
76.0169	660	Dual	1.030-14 NGO RH EXT	3/4 - 14 NGT	600 PSI	43 mm	no
76.0199		Single	W21,7 x 1/14"	W28,8 x 1/14" DIN 477	no	850 mm	yes

Various DT materials and lengths available on request. Please consult the manufacturer for different models not shown in this page.

Various configurations available for your country. Please refer to sales office of OMECA Division.

RBV series
Diaphragm Packless Valves for Refrigerant Gases

NOW π certified on demand

Key features

- Hot forged brass body according to EN12165 alloy
- Stainless steel diaphragm guarantee against breakage for the life of the valve
- Blue nylon handwheel designed for easy operation
- Inlet and outlet connection comply with CGA specifications
- Spring loaded pressure relief device

Materials

Valve Body	Brass according to brass alloy EN12165
Handwheel	Plastic
Diaphragm	Stainless steel
Spring	Stainless steel
Sping Retainer	Brass

Options

- Coloured Handwheel
- Various outlets configurations
- Various pressure relief device settings
- PRD seal cap
- Everseal preapplied on the inlet

Conforming with requirements of TPED (EN 849)

ORDERING INFORMATION

Part No.	CGA Outlet	Outlet Thread Size	Inlet Thread Size	PRD	Dip Tube Length
76.0215	167	1/2" ACME	3/4 - 14 NGT	525 PSI	no
76.0216	165	1/4" SAE FLARE	3/4 - 14 NGT	525 PSI	no
76.0248		W 21,8 x 1/14" DIN 477 n 6	W 28,8 x 1 1/14" DIN 477	525 PSI	no

EDITION JUNE 2005

ROB series
Refrigerant cylinder valves
O-ring style valves

NOW π certified on demand

Key features

- These valves are o-ring seal type valves
- Double o-ring materials technology reduces the possibility of leaks
- Sturdy brass handwheel united with the original Qualihandwheel® Cavagna system. Brass handwheels are a more resistant than common aluminium or zamak handwheel
- O-ring materials compatible with all different type of Refrigerant gases
- All inlets and outlets standard available
- Different handwheel sizes available
- BAM approval on certain models
- Valves are "π" marked according to 99/36 EC

76.0178 model

Materials

Valve Body	Brass according to EN 12165 alloy
Spindle	Brass according to EN 12164 alloy
Handwheel	Brass according to EN 12165 alloy
O-rings	CR
PRD Spring Retainer	Brass
PRD Spring	Stainless steel
Seat Pad	Nylon

80.8045 model

Options

- Personalized handwheel logo
- Dip tube thread
- Dip tube material based on customer requirements
- Pressure relief devices various sett pressure
- Antifilling devices available on some models
- Everseal preapplied on the inlets

8150 model

Conforming with requirements of TPED (EN 849)

80.1126 model

76.0023 model

8153 model

Please consult the manufacturer for different models not shown in this page.

ROY series
Compact Refrigerant Recovery Valves
O-Ring Style Cylinder Valves for Refrigerant Gases Liquid/Vapor

NOW π certified on demand

Key features

- Tamper proof gland nut cannot be removed
- Rugged brass forged body manufactured by Cavagna Group
- All valves are 100% leak test to full cylinder service pressure
- Complies with all New European Standards
- Hose barb supplied for easy attachment of Dip Tube
- All valves U.L. listed
- CGA-7 Pressure relief devices - various settings available
- Various soft seat materials assures positive leak tight shut-off

Specifications

Maximum working pressure	500 PSI
Temperature operating	-40 +65 °C -75F to 150F
Flow Capacity (CV)	n/a
Minimum Cycle Life	6000
Discharge flow capacity of PRD	208 CFM Air @ 450 PSI

Materials

Valve Body	Brass EN 12164 alloy
PRD	CGA-7 Spring Loaded
Handwheel	Plastic
Seat	Various
O-Rings	Various

Conforms to all requirements of:

CGA V 9	Standard for Gas Cylinder Valves
CGA S-1.1	Standard for Pressure Relief Devices
CGA V-1	Compressed Gas Cylinder Valve Outlet and Inlet Connections

Options

- Everseal preapplied on the inlet

EDITION JUNE 2005

ROY series
Compact Refrigerant Recovery Valves
O-Ring Style Cylinder Valves for Refrigerant Gases Liquid/Vapor

NOW π certified on demand

ORDERING INFORMATION							
Part No.	CGA Outlet	Outlet Single/Dual	Outlet Thread Size	Inlet Thread Size	Material	PRD	Dip Tube Length
76-0180	165	Dual	.4375-20 UNF-2A RH Ext. (1/4" SAE Flare)	3/4" NPT	Brass	525 PSI	barb
76-0181	165	Dual	.4375-20 UNF-2A RH Ext. (1/4" SAE Flare)	3/4" NPT	Brass	525 PSI	13.0"
76-0182	165	Dual	.4375-20 UNF-2A RH Ext. (1/4" SAE Flare)	3/4" NPT	Brass	525 PSI	13.9"
76-0185	167	Dual	.500-16 ACME-2G RH Ext.	3/4" NPT	Brass	525 PSI	barb
76-0213	165	Dual	.4375-20 UNF-2A RH Ext. (1/4" SAE Flare)	3/4" NPT	Brass	600 PSI	barb
*76-0224	165	Dual	.4375-20 UNF-2A RH Ext.	3/4" NPT	Brass	600 PSI	13.3"
76-0225	165	Dual	.4375-20 UNF-2A RH Ext. (1/4" SAE Flare)	3/4" NPT	Brass	525 PSI	barb
76-0226	165	Dual	.4375-20 UNF-2A RH Ext. "(1/4"" SAE Flare)"	3/4" NPT	Brass	525 PSI	12.4"
76-0227	165	Dual	.4375-20 UNF-2A RH Ext. (1/4" SAE Flare)	3/4" NPT	Brass	525 PSI	13.3"
76-0229	167	Dual	.500-16 ACME-2G RH Ext.	3/4" NPT	Brass	525 PSI	12.4"
76-0228	167	Dual	.500-16 ACME-2G RH Ext.	3/4" NPT	Brass	525 PSI	barb
76-0230	167	Dual	.500-16 ACME-2G RH Ext.	3/4" NPT	Brass	525 PSI	13.3"
*76-0231	165	Dual	.4375-20 UNF-2A RH Ext.	3/4" NPT	Brass	525 PSI	barb
76-0243	165	Dual	.4375-20 UNF-2A RH Ext.	3/4" NPT	Brass	525 PSI	24.2"
*76-0244	165	Dual	.4375-20 UNF-2A RH Ext.	3/4" NPT	Brass	525 PSI	24.2"

* Valve hand wheels are reversed - Red is vapor withdrawal and Blue is liquid withdrawal.
Various dip tube material and lengths are available on request - Please consult the manufacturer for details.

RES series
Multiservice wrench operated valve for Refrigerant Gases

NOW π certified on demand

Key features

- Heavy duty multiservice valve available with single or dual part
- Tamper proof gland nut cannot be removed
- Rugged brass forged body manufactured by Cavagna Group
- Non-refillable outlet feature, protects cylinder from contamination options
- All valves are 100% leak test to full cylinder service pressure
- Complies with all new European standards (CE Registered)
- High capacity pressure relief device
- Hose barb supplied for easy attachment of Dip tube

76.0239

Materials

Valve Body	Brass EN 12165 alloy
PRD	CG-7 Spring Loaded
O-Rings	Various
Packing rings	Teflon®
Stem	Stainless steel
Gland nut	brass

Options

- Handwheel operated
- Double separate outlet
- Everseal preapplied on the inlets
- Various dip tube lengths and materials

ORDERING INFORMATION

Part No.	Outlet Single/Dual	Outlet Thread Size	Inlet Thread Size	PRD Set Pressure	Dip Tube Length
76.0239	Single	W 21,7 x 1 1/14"	28,8 w x 1 1/14" - DIN 477	30 bar	970 mm

Available with different DT lengths, please contact the manufacturer for more details.

EDITION JUNE 2005

cavagna group

LPG VALVES & EQUIPMENT DIVISION

RIV series
Heavy duty
Refrigerant gas valves
O-ring style

NOW π certified on demand

Key features

- Hot forged brass body according to EN12165 alloy manufactured by Cavagna Group
- Heavy duty refrigerant gas valve
- Easy handwheel operation under pressure
- Spring retaned pressure relief valve suitable for bigger cylinders
- Double o-ring seal type valve

Materials

Body	Brass
Handwheel	Aluminum
O-ring	CR
Spindle	Brass
Antifilling device	Plastic and brass
PRD Spring	Stainless steel
PRD Spring retainer	Brass

Options

- Available with antifilling device
- Everseal preapplied on the inlet
- Dip tube various materials
- Coloured Handwheel
- Customized Handwheel logo cap

ORDERING INFORMATION

Part No.	Outlet Thread Size	Inlet Thread Size	PRD Set Pressure	Dip Tube Length	Antifilling device
76.0060	W 21,7 x 1/14"	W 28,8 - DIN 477	36 bar	14 mm	yes
76.0058	W 21,7 x 1/14"	W 28,8 - DIN 477	36 bar	14 mm	no

Various DT materials and lengths, inlet and outlet available. Please consult the manufacturer for details.

cavagna group

LPG VALVES & EQUIPMENT

DIVISION

FILLING HEADS

PRODUCT DESCRIPTION

The Kosan Filling Head is based on the experience gained during the past 40 years when Kosan Teknova A/S has been developing, manufacturing and supplying LPG equipment to customers all over the world.

The unique design and quality of the Kosan Filling Head offer the consumer the highest degree of safety when LPG is used.

Maintenance and Repair Manuals for Filling heads are available upon requests.

Please be so kind to verify with us approvals, accessories (tubes, tubes materials, tubes fixing, anti-filling devices, tools for anti-filling devices, caps, sealants and settings) and optional features. Approvals of any kind have to be expressly specified on orders or enquires.

For orders please refer to:

cavagna group

Kosan® INTERNATIONAL

tel. +39 030 9663.111 - fax +39 030 9969014
Website: www.cavagnagroup.com
E-mail: omeca@cavagnagroup.com

EDITION JUNE 2005

LPG Filling Head

for LPG Valves 16, 19 and 35 mm (Jumbo and Kosanova valves) Manually Operated

MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Balanced jig for easy suspension between filling operations.
2. Easy to connect and disconnect. Filling is initiated by operating the manual handle.
3. Slim design makes it easy to handle and it fits easily inside any shroud.

Inlet connection: ISO 228/1-G3/8 or W21,8 x 1/14 LH

Outlet connection: Connects to Kosan LPG valves 16, 19 and 35 mm with and without SRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Liquid filling product: 1-15 bar
Filling time approx. 5 sec./kg LPG at 7 bar differential pressure.

Marking: The following information is marked on the Filling Head:
• Month and year of production (postdated by three months).
• The code number of the Filling Head.

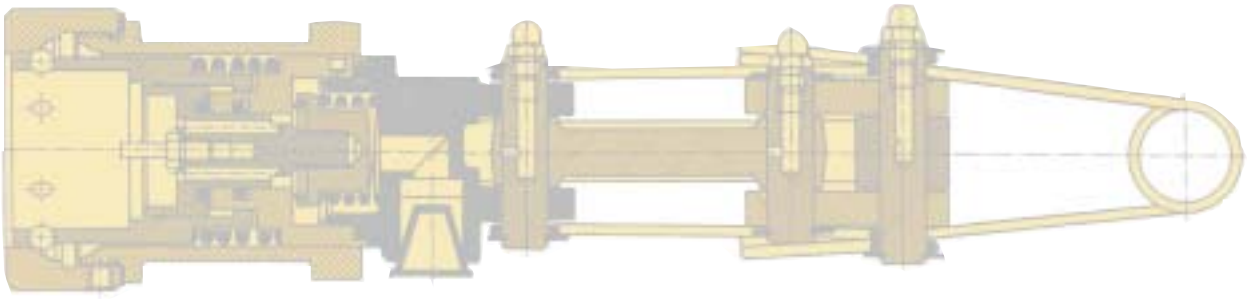
Packing: The Filling Heads are individually packed in boxes without instructions.

Function and Maintenance: The Filling Head is easy to operate.
The head outlet is attached to the valve inlet manually. While pressing the manual handle the filling heads makes a leaktight connection to the valve then opens the valve spindle and the gas starts to flow.
When the cylinder is full the filling is stopped via the scale system. By moving the handle in its opposite direction the filling head disconnects from the valve.

EDITION JUNE 2005

LPG Filling Head

for LPG Valves 16, 19 and 35 mm (Jumbo and Kosanova valves) Manually Operated



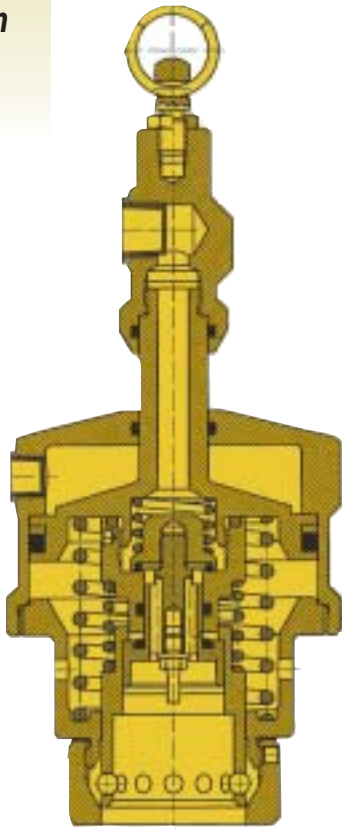
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900001	ISO 228/1 - G3/8	KOSAN LPG VALVES 35 mm type 130B - with and without SRV
6882900002	W 21,8 x 1/14 LH	KOSAN LPG VALVES 35 mm type 130B - with and without SRV
6882900003	W 21,8 x 1/14 LH	KOSAN LPG VALVES 35 mm type 130B - with and without SRV
6882900004	ISO 228/1 - G3/8	KOSANOVA LPG VALVES 16 mm type 130K - with or without SRV
6882900005	ISO 228/1 - G3/8	KOSANOVA LPG VALVES 19 mm type 130L - with or without SRV
6882900006	ISO 228/1 - G3/8	KOSANOVA LPG VALVES 19 mm type 130L - with and without SRV
6882900007	ISO 228/1 - G3/8	KOSANOVA LPG VALVES 16 mm type 176A and 130K - with or without SRV
6882900008	W 21,8 x 1/14 LH	KOSANOVA LPG VALVES 16 mm type 176A and 130K - with or without SRV

EDITION JUNE 2005

LPG Filling Head

for LPG Valves 16, 19 and 35 mm (Jumbo and Kosanova valve) Semi-automatically Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Balanced jig for easy suspension between filling operations.
2. Easy to connect and disconnect. Filling is initiated by opening of the pneumatic air supply.
3. Slim design makes it easy to handle and it fits easily inside any shroud.

Inlet connection: LPG: ISO 228/1-G3/8
Pneum. air: ISO 228/1-G1/4

Outlet connection: Connects to Kosan LPG valves 16, 19 and 35 mm with and without SRV.

Supply pressures: The Filling Head is designed to operate within the normalsupply pressures.
Pneumatic supply: 4 - 6 bar.
Liquid filling product: 1-15 bar
Filling time approx. 5 sec./kg LPG at 7 bar differential pressure.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

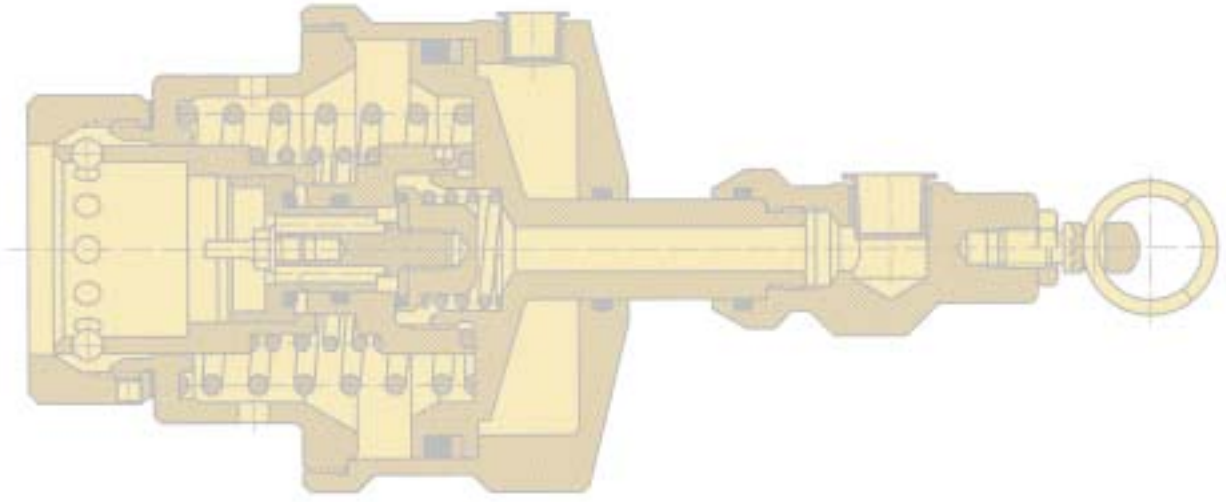
Packing: The Filling Heads are individually packed in boxes without instructions.

Function and Maintenance: The Filling Head is easy to operate.
The head outlet is attached to the valve inlet manually. Once the pneumatic pressure is applied to the head it forces the internal components of the head to move towards the valve top thereby establishing a leaktight connection and once this is established the further movement of the components forces the valve spindle to open and simultaneoulsly the gas starts to flow. When the cylinder is full the filling is stopped by removing the pneumatic pressure. The internal springs of the head allows the valve to close and moves the components of the head bakwards to stop the flow of gas and to disconnect the head from the valve. The head is removed manually.

EDITION JUNE 2005

LPG Filling Head

for LPG Valves 16, 19 and 35 mm (Jumbo and Kosanova valve) Semi-automatically Operated



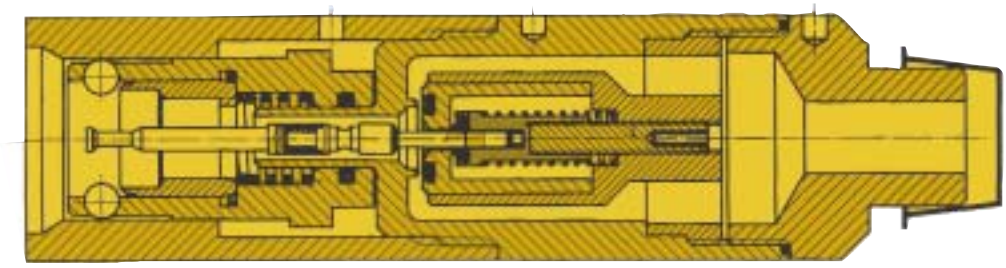
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900020	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSAN LPG VALVES 35 mm type 130B - with or without SRV
6882900021	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSAN LPG VALVES 35 mm type 130B - with or without SRV
6882900023	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSANOVA LPG VALVES 19 mm type 130L - with or without SRV
6882900024	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSANOVA LPG VALVES 19 mm type 130L - with or without SRV
6882900027	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSANOVA LPG VALVES 16 mm type 176A and 130K, with or without SRV

EDITION JUNE 2005

LPG Filling Head

for Kosanova LPG Valves 16 mm
Manually Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Easy to connect and disconnect. Filling is initiated by applying the filling pressure.
2. Slim design makes it easy to handle and it fits easily inside any shroud.
3. Is operated without pneumatic air supply

Inlet connection: W21,8 x 1/14 or ISO 228/1 - G 1/4

Outlet connection: Connects to Kosanova LPG valves type 176A, 16 mm with and without SRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Liquid filling product: 1-15 bar
Filling time approx. 5 sec./kg LPG at 7 bar differential pressure.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

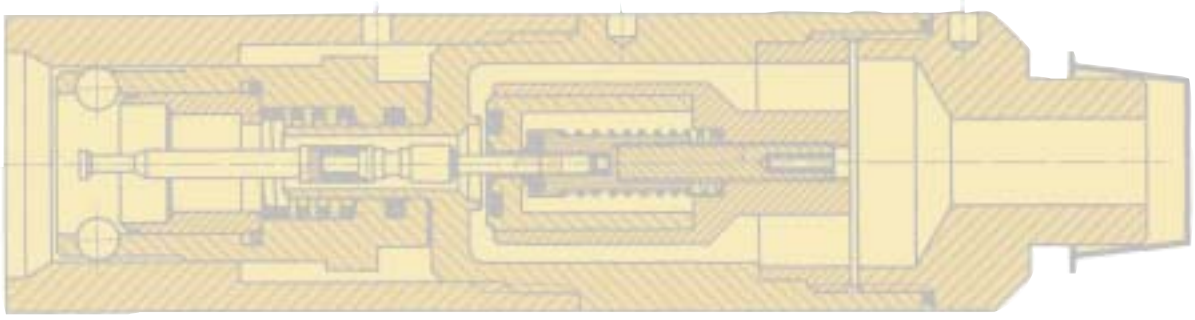
Packing: The Filling Heads are individually packed in boxes without instructions.

Function and Maintenance: The Filling Head is easy to operate.
The head outlet is attached firmly to the valve inlet manually. By applying the LPG filling pressure to the filling head, the head is locked leaktight to the valve and the filling is initiated. When the cylinder is full the filling is stopped by firmly emoving the filling head from the valve.

EDITION JUNE 2005

LPG Filling Head

for Kosanova LPG Valves 16 mm
Manually Operated



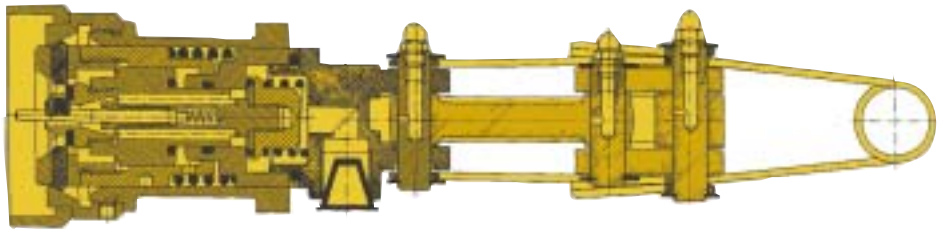
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900025	W 21,8 x 1/14 LH	KOSANOVA LPG VALVES type 176A, 16 mm with and without SRV
6882900026	ISO 228/1 - G1/4	KOSANOVA LPG VALVES type 176A, 16 mm with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Compact LPG Valves 20, 21, 22, 25.6, 27 mm Manually Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Balanced jig for easy suspension between filling operations.
2. Easy to connect and disconnect. Filling is initiated by operating the manual handle.
3. Slim design makes it easy to handle and it fits easily inside any shroud.

Inlet connection: ISO 228/1-G3/8 or W21,8 x 1/14 LH

Outlet connection: Connects to all Compact LPG valves 20 ,21, 22, 25.6 and 27 mm with and without SRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Liquid filling product:1-15 bar
Filling time approx. 2.5 sec./kg LPG at 7 bar differential pressure.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

Packing: The Filling Heads are individually packed in boxes without instructions.

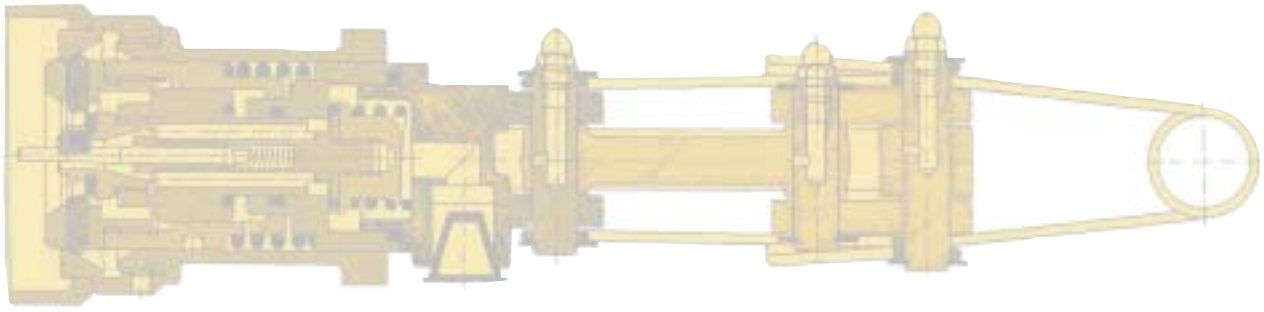
Function and Maintenance: The Filling Head is easy to operate.
The head outlet is attached to the valve inlet manually. While pressing the manual handle the filling heads makes a leaktight connection to the valve then opens the valve spindle and the gas starts to flow.
When the cylinder is full the filling is stopped via the scale system. By moving the handle in its opposite direction the filling head disconnects from the valve.

Suitable for: All compact valves outlets. Specify type of compact valve when ordering.

EDITION JUNE 2005

LPG Filling Head

for Compact LPG Valves 20, 21, 22, 25.6, 27 mm Manually Operated



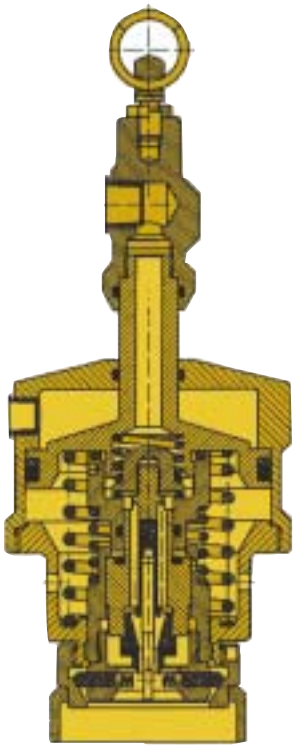
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900009	ISO 228/1 - G3/8	COMPACT LPG VALVES 20 mm type 186A - with and without SRV
6882900010	W 21,8 x 1/14 LH	COMPACT LPG VALVES 20 mm type 186A - with and without SRV
6882900011	W 21,8 x 1/14 LH	COMPACT LPG VALVES 20 mm type 186A050 - with big SRV
6882900012	ISO 228/1 - G3/8	COMPACT LPG VALVES 27 mm type 186C (SHELL) - with and without SRV
6882900013	ISO 228/1 - G3/8	COMPACT LPG VALVES 22 mm type 186G - with and without SRV
6882900014	W 21,8 x 1/14 LH	COMPACT LPG VALVES 22 mm type 186G - with and without SRV
6882900015	ISO 228/1 - G3/8	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
6882900016	W 21,8 x 1/14 LH	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
6882900017	DIN 259-1/2" NPT	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
6882900018	ISO 228/1 - G3/8	COMPACT LPG VALVES 25.6 mm type 186 - with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Compact LPG Valves 20, 21, 22, 25.6, 27 mm Semi-automatically Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Balanced jig for easy suspension between filling operations.
2. Easy to connect and disconnect. Filling is initiated by opening of the pneumatic air supply.
3. Slim design makes it easy to handle and it fits easily inside any shroud.

Inlet connection: ISO 228/1-G3/8
Pneum. air: ISO 228/1-G1/4

Outlet connection: Connects to Compact LPG valves 20, 21, 22 and 26.6 mm with and without SRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Pneumatic supply: 4 - 6 bar.
Liquid filling product: 1-15 bar
Filling time approx. 2.5 sec./kg LPG at 7 bar differential pressure.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

Packing: The Filling Heads are individually packed in boxes without instructions.

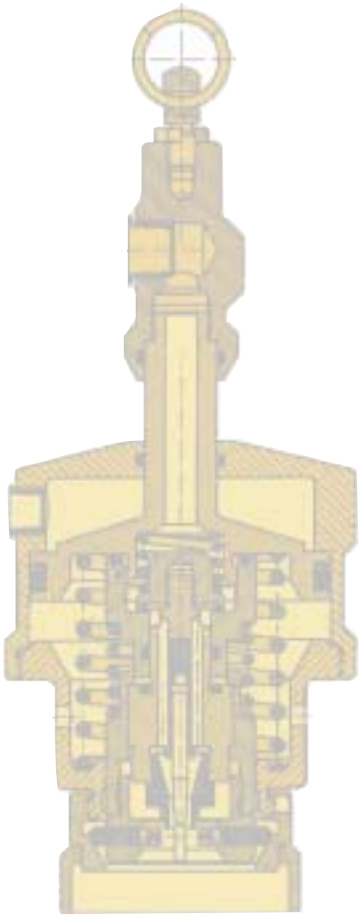
Function and Maintenance: The Filling Head is easy to operate.
The head outlet is attached to the valve inlet manually. Once the pneumatic pressure is applied to the head it forces the internal components of the head to move towards the valve top thereby establishing a leaktight connection and once this is established the further movement of the components forces the valve spindle to open and simultaneoulsly the gas starts to flow. When the cylinder is full the filling is stopped by removing the pneumatic pressure. The internal springs of the head allows the valve to close and moves the components of the head bakwards to stop the flow of gas and to disconnect the head from the valve. The head is removed manually.

Suitable for: All compact ø valves outlets. Specify type of compact valve when ordering.

EDITION JUNE 2005

LPG Filling Head

for Compact LPG Valves
20, 21, 22, 25.6, 27 mm
Semi-automatically Operated



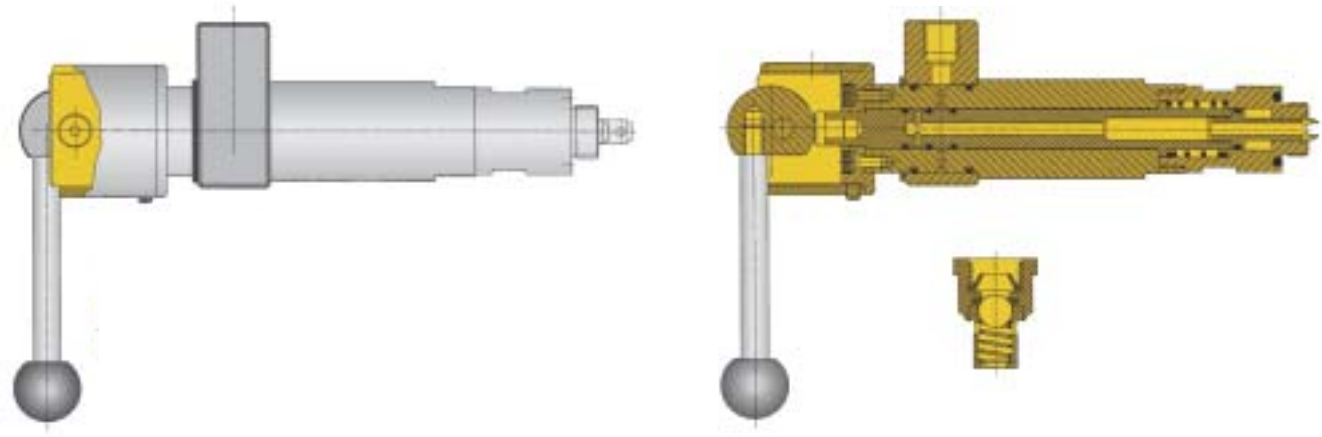
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900029	LPG: ISO 228/1 - G3/8 Pneum. air: ISO 228/1 - G1/4	COMPACT LPG VALVES 27 mm - type 186C and to most SHELL type valves with and without SRV
6882900030	LPG: ISO 228/1 - G3/8 Pneum. air: ISO 228/1 - G1/4	COMPACT LPG VALVES 20 mm type 186A - with and without SRV
6882900031	LPG: ISO 228/1 - G3/8 Pneum. air: ISO 228/1 - G1/4	COMPACT LPG VALVES 22 mm type 186 - with and without SRV
6882900032	LPG: ISO 228/1 - G3/8 Pneum. air: ISO 228/1 - G1/4	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
6882900033	LPG: ISO 228/1 - G3/8 Pneum. air: ISO 228/1 - G1/4	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
6882900034	LPG: ISO 228/1 - G3/8 Pneum. air: ISO 228/1 - G1/4	COMPACT LPG VALVES 25.6 mm type 186 - with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Camping Valves
Manually Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel,brass and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Slim design makes it easy to handle and it fits easily inside any shroud.
2. Manual ON/OFF handle at the top is used for open/close of the gas flow and for attaching/ detaching the valve outlet thread.
3. The LPG inlet is placed at a sufficient distance from the valve connection allowing the inlet to be above most cylinder shrouds.

COLOUR

The Filling Head is supplied in the natural colors of the raw material.

Inlet connection: LPG: 1/4" NPT.

Outlet connection: Connects to camping ball valve with female threaded outlet M16 x 1,5 mm. Valves without and without PRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Liquid filling product:1-15 bar.
Filling time as per present valve specification.

Marking: The following information is marked on the Filling Head:
• Month and year of production(postdated by three months).
• The code no of the Filling Head.

Packing: The Filling Heads are individually packed in cardboard boxes without instructions.

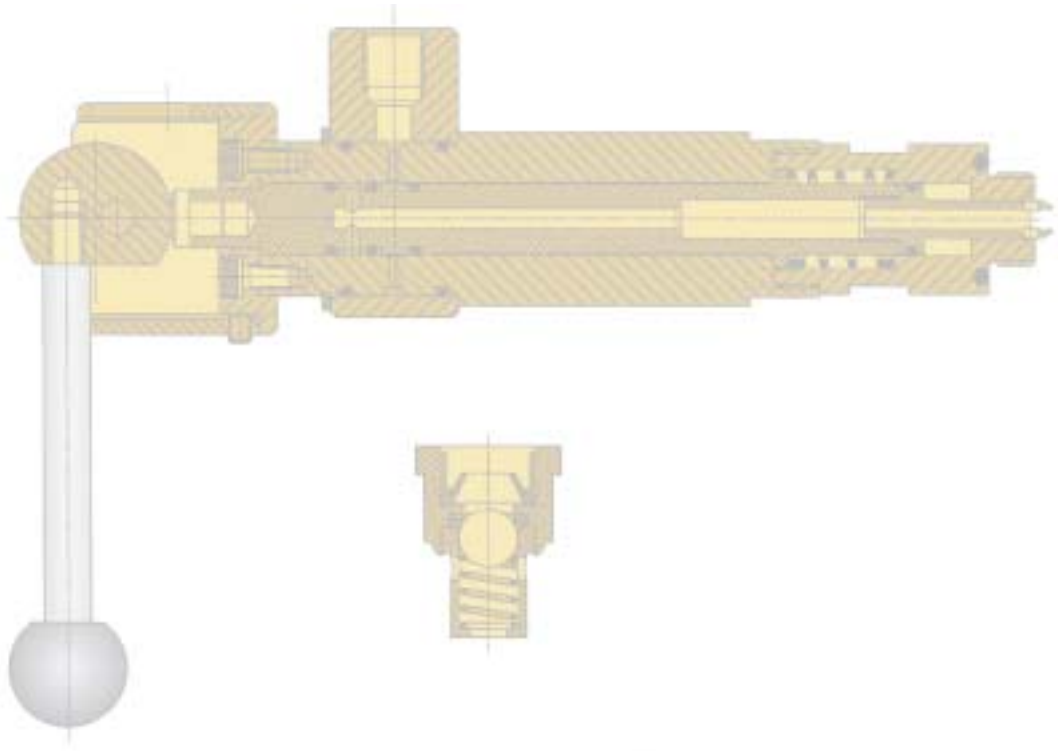
Function and Maintenance: The Filling Head is easy to operate. The threaded filling gun outlet is connected to the valve outlet by rotating the filling head body clockwise using the open/close handle to apply the rotation.
After connecting and tightening the thread the flow of gas is initiated by switching the handle 180° from the closed to the open position. The internal filling head spindle will then move towards the valve sphere and open the valve.
When the filling operation should end the handle on the filling head top is switched 180°back to the closed position and the filling head is disconnected by rotating the body anti-clockwise until it releases itself from the valve thread.

Suitable for: Omeca valve 64-0-590-2028 (see illustration above)

EDITION JUNE 2005

LPG Filling Head

for Camping Valves
Manually Operated



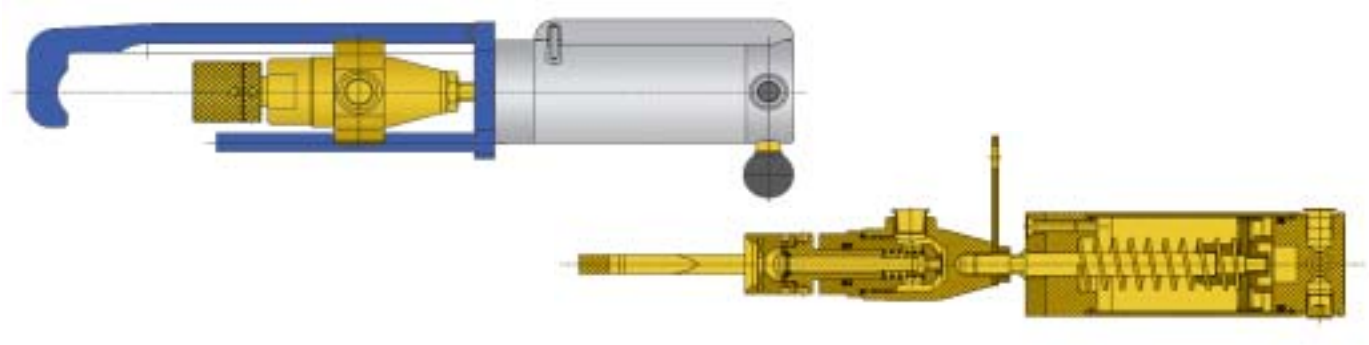
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900053	1/4" NPT	M16 x 1,5 with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Handwheel Valves
Semi-automatic Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Insignificant loss of product (1 cm^3) when the gas flow is cut off and the filling head is released from the cylinder valve.
2. Balanced jig for easy suspension between filling operations.
3. Easy to manualy connect and disconnect. Filling is initiated simultaneously with the connection to the valve.
4. Slim design makes it easy to handle and it fits easily inside any shroud.

COLOUR

The Filling Head is supplied in the natural colors of the raw material (brass and aluminium) except for the clamping brace which is painted in a blue color to ensure full corrosion-resistance and longer durability.

Inlet connection: LPG: 1/4" NPT
Pneumatic air: 3/8" NPT.

Outlet connection: Connects to standard outlet male thread valves without SRV. Specify exact valve type when ordering.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Pneumatic supply: 6-10 bar. Liquid filling product: 1-15 bar
Filling time as per present valve specification.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

Packing: The Filling Heads are individually packed in cardboard boxes without instructions.

Function and Maintenance: The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a leaktight connection and simultaneously opening the gas seal initiating the LPG flow. After completing the filling operation the handle on the side of the pneumatic cylinder is pushed and the air pressure is released thereby stopping the flow of gas and the outlet disconnects from the cylinder valve. All rubber seals inside the gas section as well as the complete pneumatic cylinder can be exchanged.

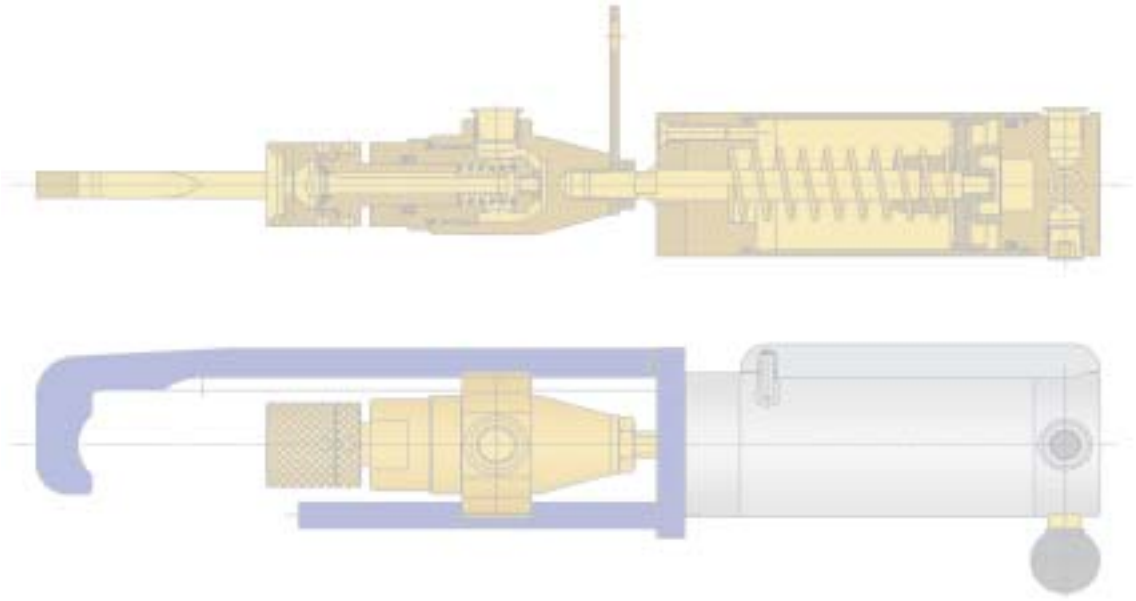
Suitable for: A wide range of standard LPG handwheel valves without SRV.

cavagna group

LPG VALVES & EQUIPMENT DIVISION

LPG Filling Head

for Handwheel Valves
Semi-automatic Operated



ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900042	LPG 1/4” AIR 3/8”	Standard Handwheel male outlet without SRV

EDITION JUNE 2005

REFRIGERANT GASES Filling Head

for Handwheel Valves Semi-automatic Operated

MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Insignificant loss of product when the gas flow is cut off and the filling head is released from the cylinder valve.
2. Includes anti-filling device opener.
3. Balanced jig for easy suspension between filling operations.
4. Easy to manually connect and disconnect. Filling is initiated simultaneously with the connection to the valve.
5. Slim design makes it easy to handle and it fits easily inside any shroud.

COLOUR

The Filling Head is supplied in the natural colors of the raw material (brass and aluminium) except for the clamping brace which is painted in a blue color to ensure full corrosion-resistance and longer durability.

Inlet connection: Freon: 1/4" NPT
Pneumatic air: 3/8" NPT.

Outlet connection: Connects to standard outlet male threads such as G1, G2, G4, G5, G6, G8, G11, G12 acc. to EN 12864. Valves with and without SRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Pneumatic supply: 6-10 bar. Liquid filling product: 1-20 bar
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

Packing: The Filling Heads are individually packed in cardboard boxes without instructions.

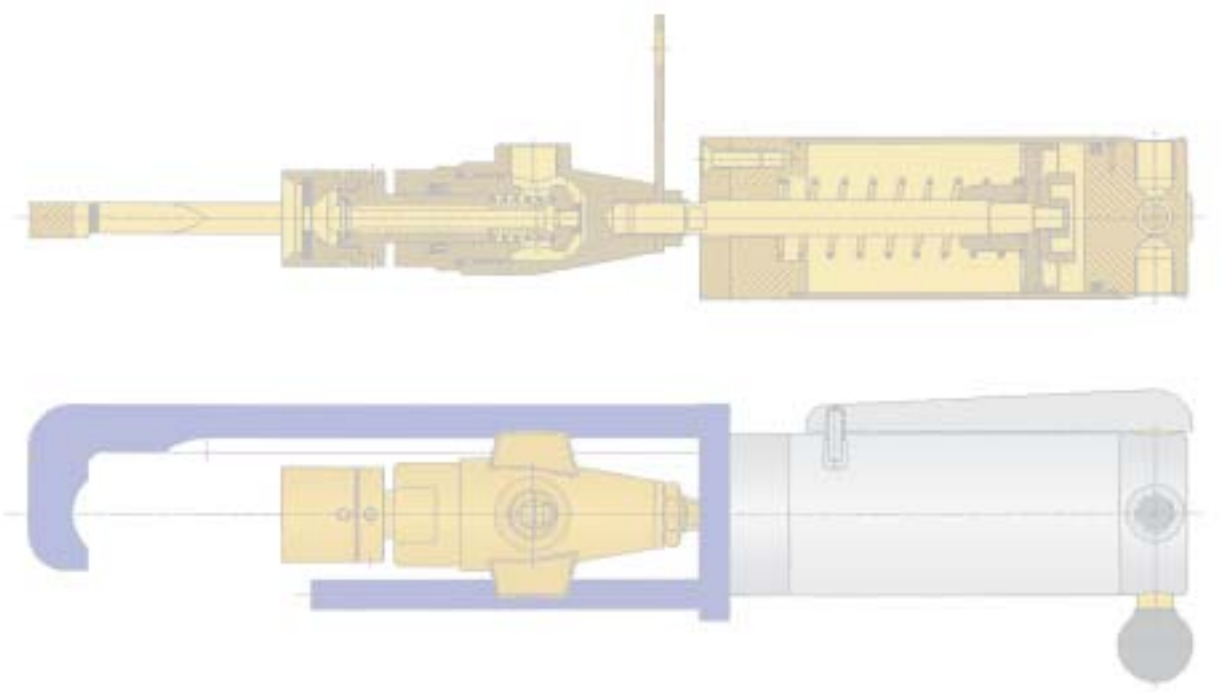
Function and Maintenance: The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve inlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a leaktight connection and simultaneously opening the gas seal initiating the FREON flow. After completing the filling operation the handle on the side of the pneumatic cylinder is pushed and the air pressure is released thereby stopping the flow of gas and the outlet disconnects from the cylinder valve. All rubber seals inside the gas section as well as the complete pneumatic cylinder can be exchanged.

EDITION JUNE 2005

REFRIGERANT GASES Filling Head

for Handwheel Valves

Semi-automatic Operated



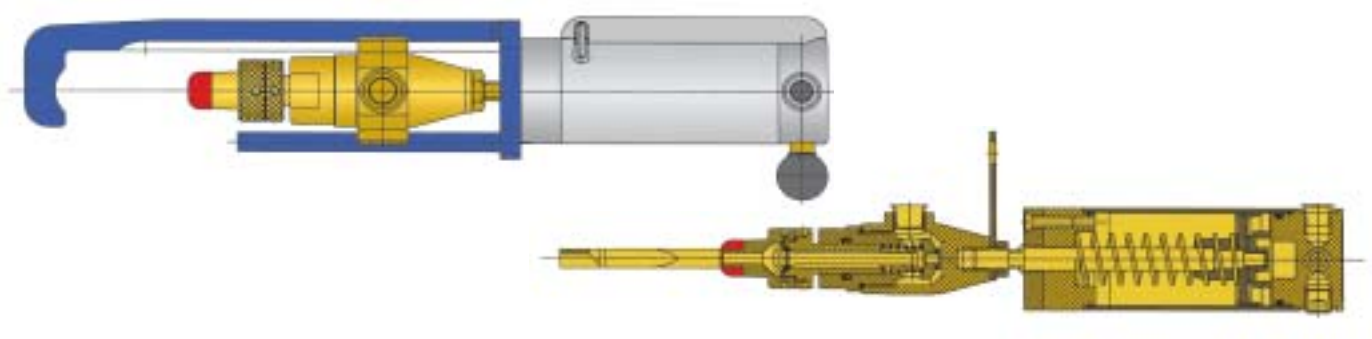
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900043	REFRIGERANT GASES 1/4” AIR 3/8”	Standard Handwheel male outlet with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Handwheel Valves, POL outlet
Semi-automatic Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Insignificant loss of product (1 cm^3) when the gas flow is cut off and the filling head is released from the cylinder valve.
2. Balanced jig for easy suspension between filling operations.
3. Easy to manualy connect and disconnect. Filling is initiated simultaneously with the connection to the valve.
4. Slim design makes it easy to handle and it fits easily inside any shroud.

COLOUR

The Filling Head is supplied in the natural colors of the raw material (brass and aluminium) except for the clamping brace which is painted in a blue color to ensure full corrosion-resistance and longer durability.

Inlet connection: LPG: 1/4" NPT
Pneumatic air: 3/8" NPT.

Outlet connection: Connect to POL - type valves with or without Pressure Relief Valves. Specify when ordering.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Pneumatic supply: 6-10 bar. Liquid filling product: 1-15 bar
Filling time as per present valve specification.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

Packing: The Filling Heads are individually packed in cardboard boxes without instructions.

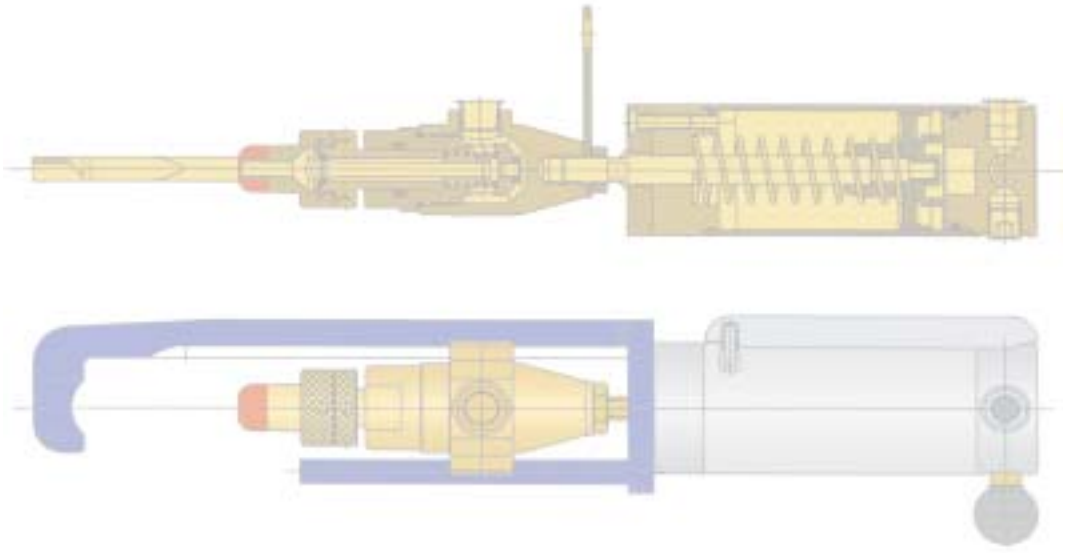
Function and Maintenance: The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a leaktight connection and simultaneously opening the gas seal initiating the LPG flow. After completing the filling operation the handle on the side of the pneumatic cylinder is pushed and the air pressure is released thereby stopping the flow of gas and the outlet disconnects from the cylinder valve. All rubber seals inside the gas section as well as the complete pneumatic cylinder can be exchanged.

Suitable for: All different Handwheel POL type of valves. Specify valve type and outlet when ordering.

EDITION JUNE 2005

LPG Filling Head

for Handwheel Valves, POL outlet
Semi-automatic Operated



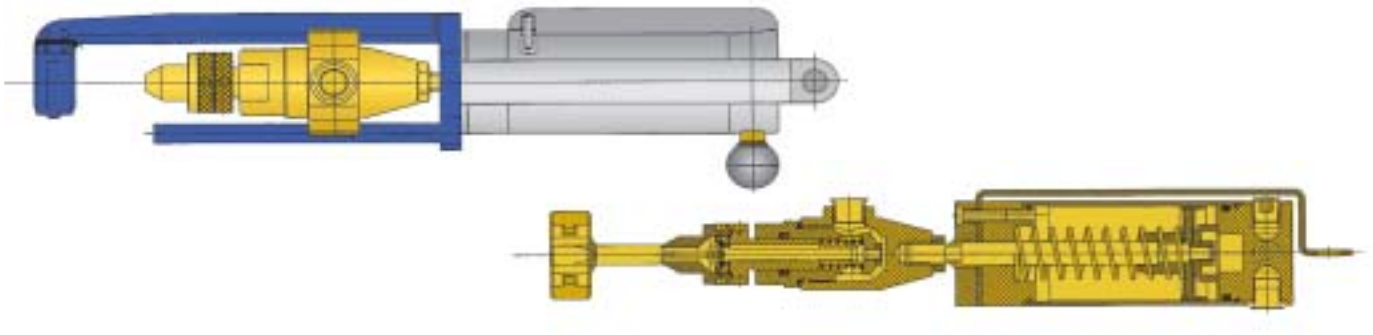
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900044	LPG 1/4" NPT AIR 3/8" NPT	Female POL thread valves with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Bayonet Valves
Semi-automatic Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel,brass,aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Insignificant loss of product (1 cm^3) when the gas flow is cut off and the filling head is released from the cylinder valve.
2. Balanced jig for easy suspension between filling operations.
3. Easy to manualy connect and disconnect. Filling is initiated simultaneously with the connection to the valve.
4. Slim design makes it easy to handle and it fits easily inside any shroud.

COLOUR

The Filling Head is supplied in the natural colors of the raw material (brass and aluminium) except for the clamping brace which is painted in a blue color to ensure full corrosion-resistance and longer durability.

Inlet connection: LPG: 1/4" NPT.
Pneumatic air :3/8" NPT.

Outlet connection: Connects to bayonett valves G61 acc. to EN 12864
Valves with and without PRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Pneumatic supply: 6-10 bar.
Filling time as per present valve specification.

Marking: The following information is marked on the Filling Head:
• Month and year of production (postdated by three months).
• The code no of the Filling Head.

Packing: The Filling Heads are individually packed in cardboard boxes without instructions.

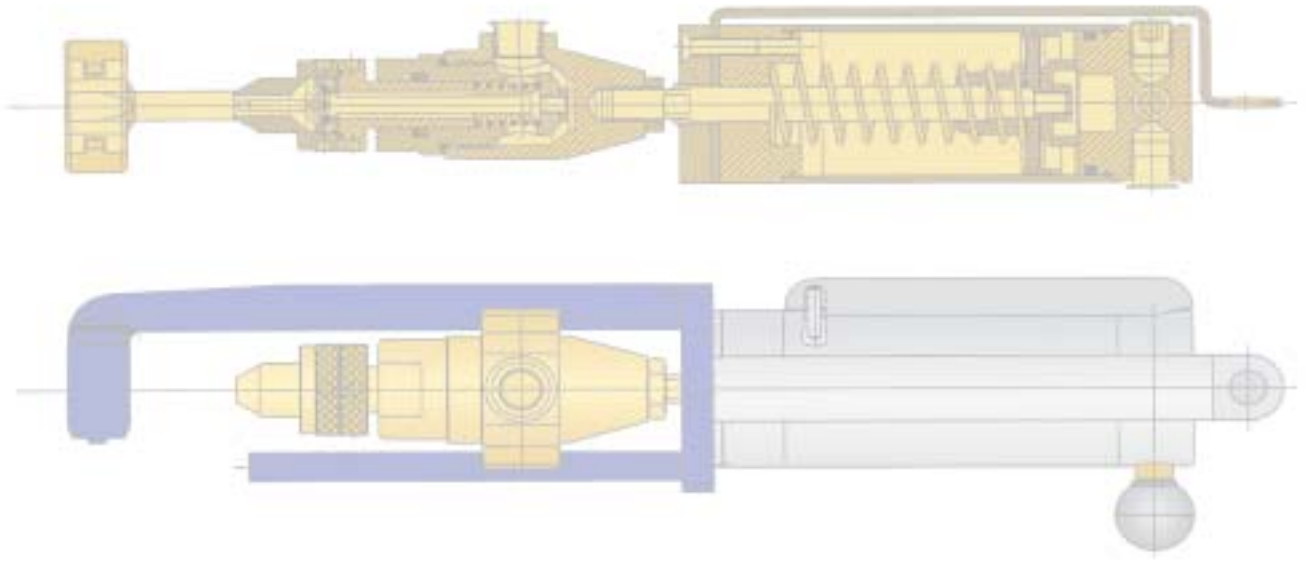
Function and Maintenance: The Filling Head is easy to operate. The connector at the end of the clamping brace is pushed into the undercut of the bayonet. Once the Filing Head outlet is aligned with the cylinder valve outlet, the ball knob is pusched to allow the compressed air to fill the pneumatic cylinder.
This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a leaktight connection and simultaneously opening the gas seals initiating the LPG flow.
After completing the filling operation the handle on the side of the pneumatic cylinder is pushed and the air pressure isreleased thereby stopping the flow of gas and the outlet disconnects from the cylinder valve. The connector is then removed from the valve. All rubber seals inside the gas section as well as the complete pneumatic cylinder can be exchanged.

Suitable for: Omeca valves 66-0-290-0136, 66-0-290-0145

EDITION JUNE 2005

LPG Filling Head

for Bayonet Valves
Semi-automatic Operated



ORDERING INFORMATION

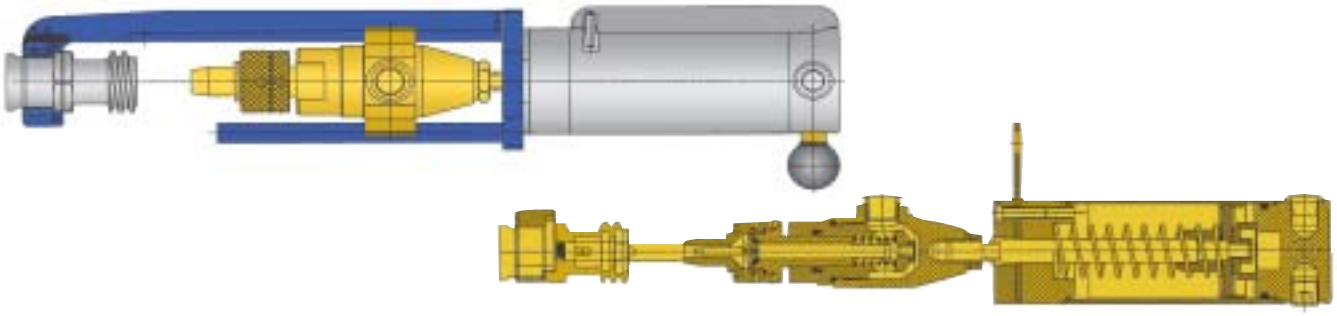
REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900046	LPG 1/4" NPT AIR 3/8" NPT	Automatic bayonet valve with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Coupling 66-0-290-1024

Semi-automatic Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel,brass,aluminium and special polymers.The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Insignificant loss off product (1 cm^3) when the gas flow is cut off and the filling head is released from the cylinder valve.
2. Balanced jig for easy suspension between filling operations.
3. Easy to manualy connect and disconnect. Filling is initiated simultaneously with the connection to the valve.
4. Slim design makes it easy to handle and it fits easily inside any shroud.

COLOUR

The Filling Head is supplied in the natural colors of the raw material (brass and aluminium) except for the clamping brace which is painted in a blue color to ensure full corrosion-resistance and longer durability.

Inlet connection: LPG: 1/4" NPT.
Pneumatic air: 3/8" NPT.

Outlet connection: Connects to Omeca Coupling 66-0-290-1024

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Pneumatic supply: 6-10 bar.
Liquid filling product: 1-15 bar.
Filling time as per present valve specification to which the coupling is connected.

Marking: The following information is marked on the Filling Head:
• Month and year of production (postdated by three months).
• The code no of the Filling Head.

Packing: The Filling Heads are individually packed in cardboard boxes without instructions.

Function and Maintenance: The Filling Head is easy to operate. The connector at the end of the clamping brace is placed around the neck of the Coupling. Once the Filling Head outlet is aligned with the Coupling outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder.This forces the Filling head outlet to attach the Coupling outlet thereby obtaining a leaktight connection and simultaneously opening the gas seals initiating the LPG flow.
After completing the filling operation the handle on the side of the pneumatic cylinder is pushed and the air pressure is released thereby stopping the flow of gas and the outlet disconnects from the Coupling.
All rubber seals inside the gas sections as well as the complete pneumatic cylinder can be exchanged.

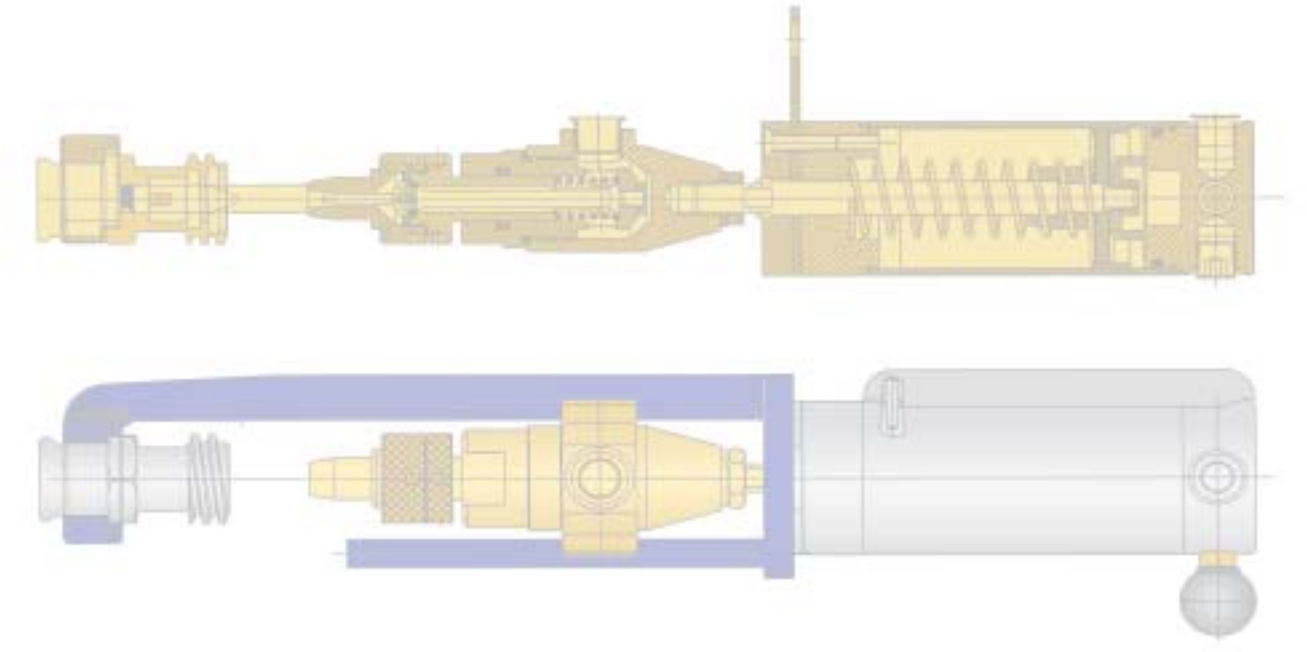
Suitable for: Omeca valve 66-0-290-1024 (see illustration above)

EDITION JUNE 2005

LPG Filling Head

for Coupling 66-0-290-1024

Semi-automatic Operated



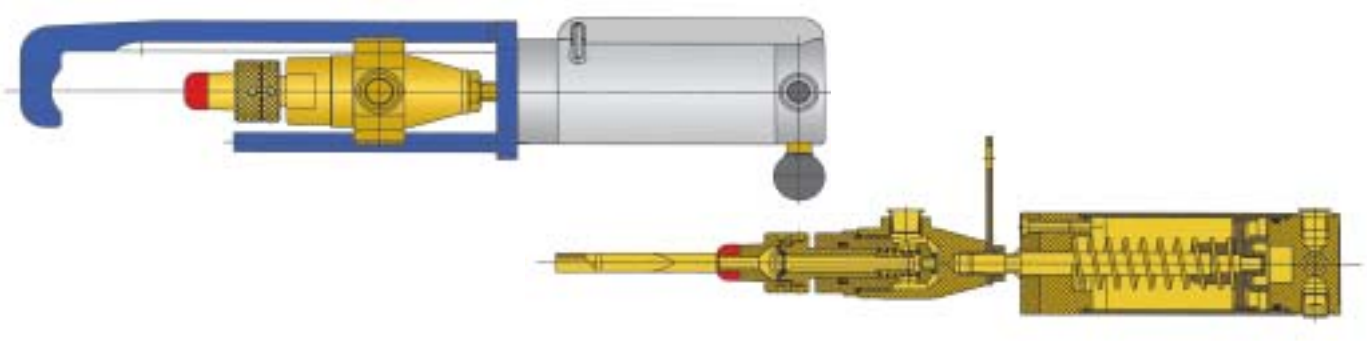
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900047	LPG 1/4" NPT AIR 3/8" NPT	Omeca coupling 66.0.290.1024

EDITION JUNE 2005

LPG Filling Head

for Handwheel Valves, OPD -type
Semi-automatic Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Insignificant loss of product (1 cm^3) when the gas flow is cut off and the filling head is released from the cylinder valve.
2. Balanced jig for easy suspension between filling operations.
3. Easy to manualy connect and disconnect. Filling is initiated simultaneously with the connection to the valve.
4. Slim design makes it easy to handle and it fits easily inside any shroud.

COLOUR

The Filling Head is supplied in the natural colors of the raw material (brass and aluminium) except for the clamping brace which is painted in a blue color to ensure full corrosion-resistance and longer durability.

Inlet connection: LPG: 1/4" NPT
Pneumatic air: 3/8" NPT.

Outlet connection: Connects to POL - type OPD valves with or without SRV.

Supply pressures: The Filling Head is designed to operate within the normal supply pressures.
Pneumatic supply: 6-10 bar. Liquid filling product: 1-15 bar
Filling time as per present valve specification.

Marking: The following information is marked on the Filling Head:
• Month and year of production (posdated by three months).
• The code number of the Filling Head.

Packing: The Filling Heads are individually packed in cardboard boxes without instructions.

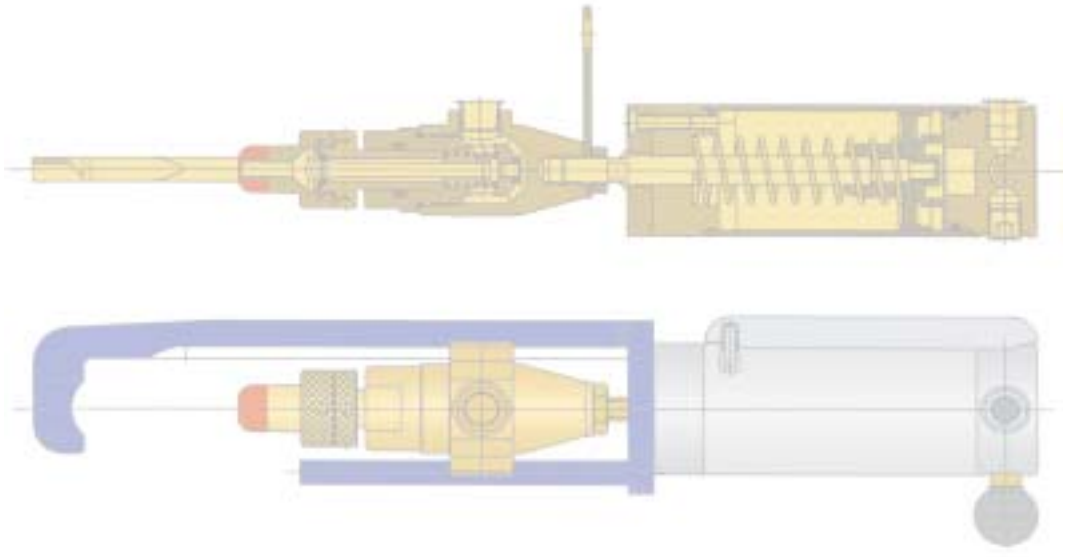
Function and Maintenance: The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a leaktight connection and simultaneously opening the gas seal initiating the LPG flow. After completing the filling operation the handle on the side of the pneumatic cylinder is pushed and the air pressure is released thereby stopping the flow of gas and the outlet disconnects from the cylinder valve. All rubber seals inside the gas section as well as the complete pneumatic cylinder can be exchanged.

Suitable for: OPD valves with POL female outlet.

EDITION JUNE 2005

LPG Filling Head

for Handwheel Valves, OPD - type Semi-automatic Operated



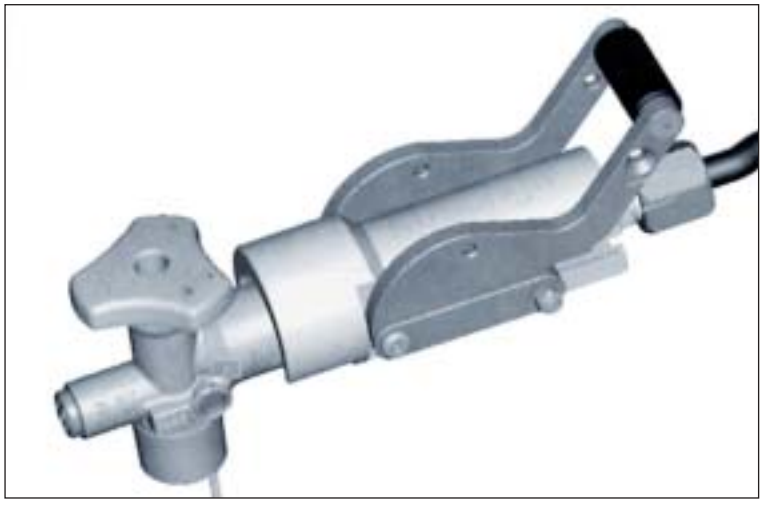
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900050	LPG 1/4” AIR 3/8”	OPD - female POL thread valve whith check-lock with and without SRV

EDITION JUNE 2005

LPG Filling Head

for Handwheel Valves with ACME Thread Manually Operated



APPLICATIONS

LPG outlets without access to pressurized air well as plants where pressurization or vacuum purging of cylinders is required.

FEATURES

Safe operation, easily connected and manually operated.

SPECIFICATIONS

Inlet connection: 1/4" NPT male thread

Outlet connection: Connects to 1.312-5 ACME-2G, RH, EXT.

Supply pressures: LPG, pressurized air or vacuum.

Function and Maintenance: The filling adapter is manually connected to a standard handwheel valve having a small ACME male outlet. The front end of the filling adapter slides easy over the male acme thread and creates a firm connection. Next, the adapter handle, and thereby the internal spindle, is moved forward to seal the spindle leak tight to the valve outlet. Simultaneously, the internal spindle opens its spring loaded seat and then the LPG flows into the cylinder. After the filling, the operations are reversed and the internal spindle automatically closes the flow of LPG before it is disconnected from the valve.

EDITION JUNE 2005

LPG Filling Head

for Handwheel Valves with ACME Thread Manually Operated

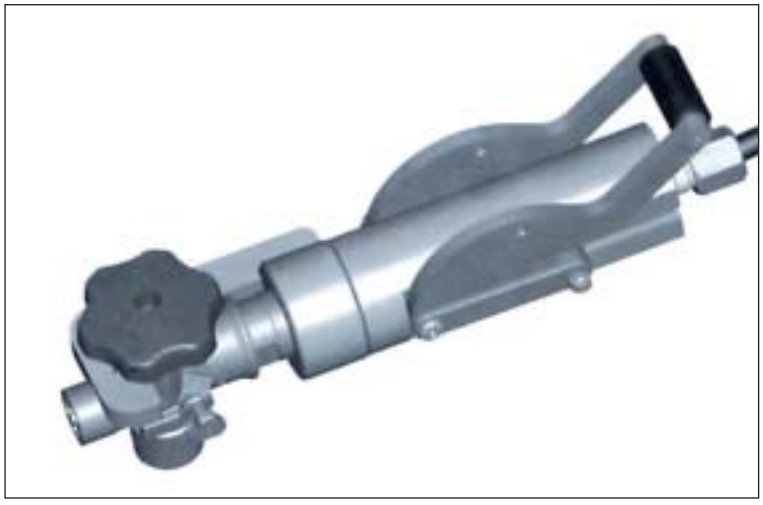
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900055	1/4" NPT male thread	1.312-5 ACME - RH - EXT

EDITION JUNE 2005

LPG Filling Head

for Handwheel POL Valves Manually Operated



APPLICATIONS

LPG outlets without access to pressurized air well as plants where pressurization or vacuum purging of cylinders is required.

FEATURES

Safe operation, easily connected and manually operated.

SPECIFICATIONS

Inlet connection: 1/4" NPT male thread

Outlet connection: Connects to most standard POL valves.

Supply pressures: LPG, pressurized air or vacuum.

Function and Maintenance: The filling adapter is manually connected to a standard handwheel valve having a POL outlet. The hook shaped front end of the filling adapter slides easy to be back side of the valve and creates a firm connection. Next, the adapter handle, and thereby the internal spindle, is moved forward to seal the spindle leak tight to the valve outlet. Simultaneously, the internal spindle opens its spring loaded seat and then the LPG flows into the cylinder. After the filling, the operations are reversed and the internal spindle automatically closes the flow of LPG before it is disconnected from the valve.

EDITION JUNE 2005

LPG Filling Head

for Handwheel POL Valves Manually Operated

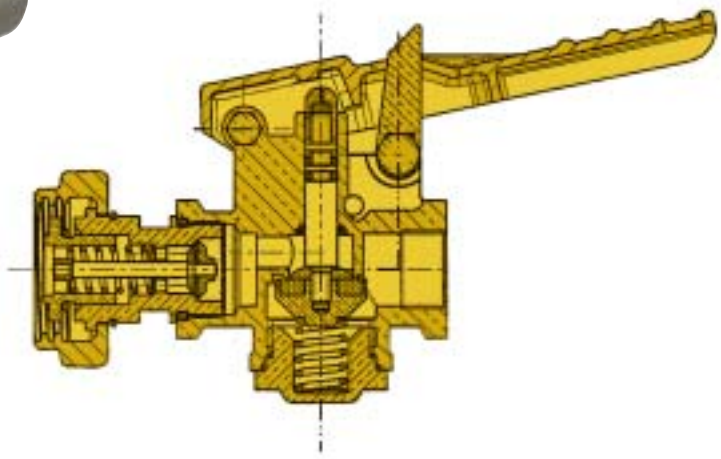
ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900056	1/4" NPT male thread	Standard POL valves

EDITION JUNE 2005

LPG Filling Head

for Tank Filler Valves Manually Operated



MATERIALS AND STANDARDS

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.

FEATURES

1. Easy and safe to connect and disconnect. Filling is initiated by operating the manual handle.
2. Slim design makes it easy to handle and it fits easily inside any shroud.
3. Safety lock for disconnection
4. The safe valve connection assures that the LPG can only flow when the filling head is leak tight connected to a filler valve.

Inlet connection: 3/4" NPT

Outlet connection: 1 3/4" x 6 ACME - 2g connects to Cavagna filler valves like 66.0.290.1026

Supply pressures: The Filling Head is designed to operate within the normal LPG supply pressures.
Liquid filling product: 1-15 bar

Marking: The following information is marked on the Filling Head:
• Month and year of production (postdated by three months).
• The code number of the Filling Head.

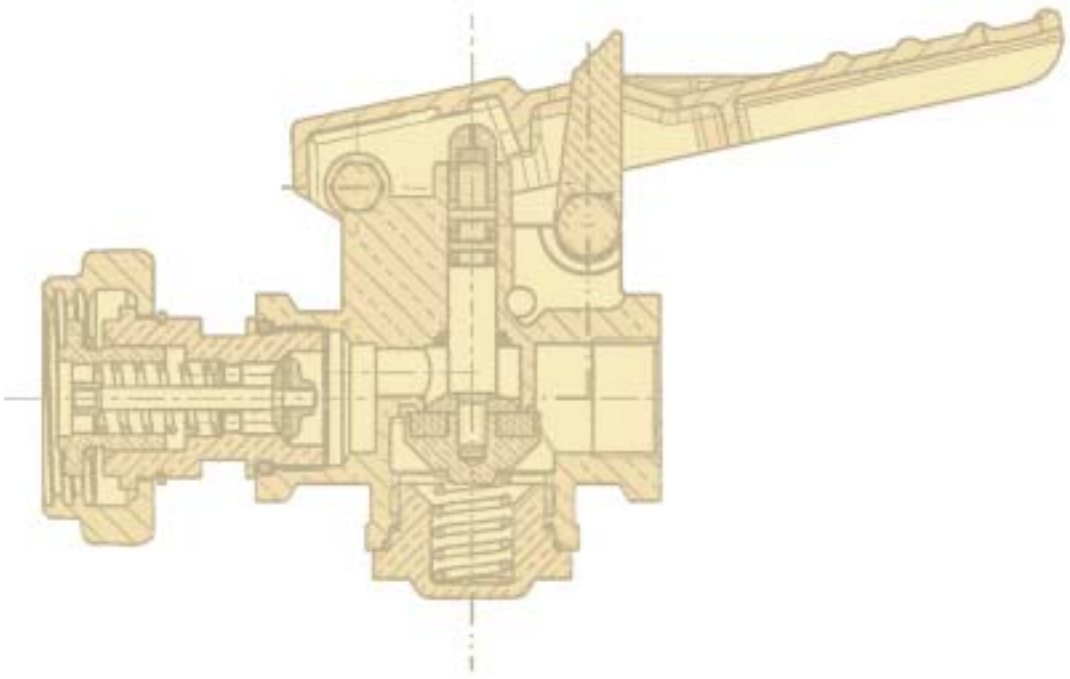
Packing: The Filling Heads are individually packed in boxes without instructions.

Function and Maintenance: The Filling Head is easy and safe to operate.
The head outlet is attached leaktight to the valve inlet manually. While pressing down the manual handle the filling head spindle opens and the gas starts to flow.
When the tank is full the filling is stopped and the filling head is removed by unscrewing the nut manually.
By checking the safety lock and the manual handle reverses.

EDITION JUNE 2005

LPG Filling Head

for Tank Filler Valves Manually Operated



ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900057	3/4" NPT	1 3/4" x 6 ACME - 2g filler valve example: 66.0.290.1026

EDITION JUNE 2005

Cross reference of Filling Heads

VALVES	SEMI-AUTOMATIC	MANUAL
Kosanova 16 mm type 176A, 130K	6882900027	6882900007 6882900008
Kosanova 16 mm type 176A	Not applicable	6882900025 6882900026
Jumbo, Kosan type 130B	6882900020 6882900021	6882900001 6882900002 6882900003
Kosanova 16 mm 130 K	6882900027	6882900004
Kosanova 19 mm 130L	6882900023 6882900024	6882900005 6882900006
Compact 20 mm	6882900030	6882900009 6882900010 6882900011
Compact 21 mm	6882900032 6882900033	6882900015 6882900016 6882900017
Compact 22 mm	6882900031	6882900013 6882900014
Compact 25,6 mm	6882900034	6882900018
Compact 27 mm	6882900029	6882900012
Camping valve 64.0.590.2028		6882900053
Standard Handwheel Valve Male thread	6882900042	Not applicable
Standard Handwheel Valve POL outlet	6882900044	Not applicable
Omeca valve 67.0.490.0780	6882900045	Not applicable
Bajonet valves 66.0.290.0136 66.0.290.0145	6882900046	Not applicable
Omeca coupling 66.0.290.1024	6882900047	Not applicable
OPD valves Type 1 ACME American valves	6882900050	Not applicable
3/8” SAE Flare outlet 80.0.390.2062	6882900051	Not applicable
Standard Handwheel Valve POL outlet		6882900044 6882900056
OPD valves Type 1 ACME American Valves		6882900050 6882900055
Filler Valve 1 3/4” x 6 ACME 66.0.290.1026	Not applicable	6882900057