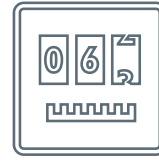
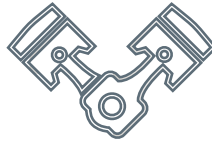




LPG Valves and Equipment

Solutions



LPG SOLUTIONS



COMPRESSED GASES SOLUTIONS



NATURAL GAS SOLUTIONS



ALTERNATIVE FUEL SYSTEMS



GAS METERING SOLUTIONS



OTHER





The Cavagna Group began operation in 1949 in Northern Italy and continues to grow today. Since its origin, the Group has become a world leader in the forging and machining of brass and stainless steel.

For over seventy years the Group has supplied safe products of superior quality and value. Technological advancement and sophisticated working procedures have allowed us to rapidly create new products and solutions for the gas control industry.

The Cavagna Group produces a wide range of products meeting international standards including:

- LPG Valves and Regulators
- Natural Gas regulators for domestic and industrial use
- ASME, Fork Lift, and Motor Fuel Tank Valves
- High Pressure Cylinder Valves
- Refrigeration Cylinder Valves
- Distribution and Regulation Equipment for Industrial Gases
- Distribution and Regulation Equipment for Medical Gases
- Comprehensive Range of Welding, Cutting Equipment and Special Gases
- CNG - AUTOGAS products

The Group's design engineers and laboratory technicians closely cooperate with worldwide regulatory institutions, both in the writing of international performance standards and in the creation of new products.

The Cavagna Group of companies has invested heavily in personnel, individual training, and robotic technology to meet the quality standards required by our customers and the 145 countries we serve.

Our philosophy is to provide all of our customers with quality products, continuous innovation and superior service in a competitive environment.

LPG Cylinder Equipment

Gas Phase Valves	PG. 6
Liquid Phase Valves	PG. 10
Level Indicator Valves	PG. 12
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Filling Heads

LPG Filling Heads	PG. 18
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LPG Tank Valves

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LPG & Ammonia(NH₃) Bobtail & Transport Tanker Equipment

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cavagna group

Wherever gas is used, we are there

LPG Cylinder Valves

Gas Phase Valves	PG. 6
Liquid Phase Valves	PG. 10
Level Indicator Valves	PG. 12
Camping Valves	PG. 14
Dual Phase Valves	PG. 15





LPG Handwheel Valves



8002901109

Open-close handwheel valve. Customizable upon request.



8002901227

PRONTO TAP
Open-close valve with POL outlet. With **test Port**



8004903135

Open-close handwheel valve. This valve also incorporates a fixed liquid level gauge.



8003902051

Open-close handwheel valve **with excess flow limiter.**



8064903218

Open-close handwheel valve with diffuser for composite cylinder.

8004903082

Open-close handwheel valve. Customizable upon request.



8062901209

Open-close handwheel valve. Customizable upon request.



8064903098

Open-close handwheel valve with dust retainer. Customizable upon request.



Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection *	Outlet connection *
8002901109	17E	W 21.8 x 1/14" LH
8004903082	25E	G1/2 LH
8062901059	25.5 x 2 CIGPL / NF88-765	W 20 x 1/14" LH
8002901209	KG 19.3 x 1/14" Taper 6 to cone STAS 2667-89	W 21.8 x 1/14" LH
8003902051	23.2 x 2 GPL Cone 10%	21.7 x 1.814
8002901146	17E	W 21.8 x 1/14" LH
8064903098	17E	W 21.8 x 1/14" LH
8002901227	3/4" - 14 NPT	.885-14 NGO-LH CGA 510
8004903135	3/4" - 14 NPT	.885-14 NGO-LH CGA 510
8064903218	M26x1.5-6e	W21.8x1/14" - LH

LPG Handwheel Valves with Pressure Relief Device



8067906019

Open-close handwheel valve with pressure relief device.

8006905016

DOT cylinder valve with a fixed liquid level gauge



8006905027

Open-close handwheel valve with pressure relief device.

8067906060

Open-close valve with pressure relief valve and plastic diffuser for composite lpg cylinders.
Parallel threads inlet connection. (option of different outlets)



8298908017

Cylinder valve OPD with secondary overfill protection device.

8005904003

Open-close handwheel valve with pressure relief device and ACME outlet.



*inlet and outlet connection according to country standards

Ordering Information

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
8067906019	17E	W 21.8 x 1/14" LH DIN 477 N°2	35 bar
8067906018	25E	W 21,8 x 1/14" LH DIN 477 N°1	35 bar
8067906060	M26 x 1.5-6e	W 21.8 x 1/14" LH DIN 477 N°2	35 bar
8006905027	25T	G 5/8 LH N° 105	26 bar
8298908017	3/4" - 14 NGT	1.312" -5 ACME 2G RH-EXT	375 PSI (26 bar)
8002901145	25E	.885"-14 NGO-LH-INT CGA 510	/
8006905016	3/4" - 14 NGT	.885"-14 NGO-LH-INT CGA 510	375 PSI (26 bar)
8005904003	M26,2x2	1 1/4" 5 ACME-2G	26 bar

The products shown represent only some configurations and solutions of the wider range available.



LPG Click On Valves

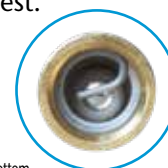


6682900011

LPG Click On valve.
Customizable upon request.

6682900022

LPG Click On valve
with internal sphere
excess flow device.
Customizable upon request.



↓ Bottom



6682900323

LPG Click On valve with
pressure relief device and
excess flow. Customizable
upon request.

6682900249

LPG Click On valve
with internal sphere
excess flow device.
Customizable upon request.



6682900263

LPG Click On valve with
internal sphere excess
flow device.
Customizable upon request.

6682900220

LPG Click On valve
with Pressure Relief
Device and fusible plug.
Customizable upon request.



Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
6682900011	3/4" - 14 NCT	ø 20	/
6682900022	ø 23.2 x 2 GPL Con. 10%	ø 20	/
6682900323	3/4" - 14 NCT	ø 20	26 bar
6682900263	M26 x 1.5-6e	ø 20	26 bar
6682900249	ø 23.2 x 2 GPL Taper 10%	ø 20	26 bar
6682900220	25E	ø 22	21 bar
6602900313	ø 19.3 x 1.814 SI Taper 6°	ø 27	26 bar
6682900070	ø 25.5x2 CIGPL	ø 22	/

LPG Flat Top Valves



↑ Top



6682900052

LPG Click On valve.
Customizable upon
request.
Weather sealed.



↑ Top



6682900320

LPG Flat top valve with
pressure relief device.
Customizable upon
request.
Weather sealed.



↑ Top



6682900224

LPG Flat top valve
with dust retainer.
Customizable upon
request.
Weather sealed.



↑ Top



6682900253

LPG Flat top valve with
pressure relief device.
Customizable upon
request.
Weather sealed.



↑ Top



6682900328

LPG Flat top valve with
pressure relief device.
Customizable upon
request.
Weather sealed.



↑ Top



6682900327

LPG Flat top valve with
pressure relief device
and dust retainer.
Customizable upon
request.
Weather sealed.

*inlet and outlet connection according to country standards

Ordering Information

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
6682900253	ø 26.3 ± 0.075 x 2 Cone 10% CIGPL 88/765	ø 16	26 bar
6682900052	25E	ø 19	/
6682900320	25E	ø 21	/
6682900328	M26x1.5-6e	ø 22	25 bar
6682900224	3/4" - 14 NGT	ø 22	/
6682900327	ø 26.2±0.1x2 Con. 10%	ø 22	25 bar



LPG Jumbo Valves



6682900269

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



6682900308

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



6602901355

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

Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
6682900269	25E	ø 35	30 bar
6602901355	25E	ø 35	26 bar
6682900308	25E	ø 35	26 bar

LPG Forklift Carburation Valves Vertical Application



8004903221

LPG handwheel valve with pressure relief and excess flow devices. Customizable upon request.



8064903001

LPG handwheel valve with excess flow device. Customizable upon request.

Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
8064903217	17E	W21.8 x 1/14" LH	/
8064903001	17E	W21.8 x 1/14" LH	/
8004903221	25E	W21.8 x 1/14" LH	26 bar

LPG Forklift Carburation Valves Horizontal Application



8004903184

LPG Forklift Carburation Quick Outlet Connection Valve with pressure relief and excess flow devices.

6602901275

LPG Forklift Carburation Quick Connection Valve with pressure relief device, sinterized filter and mechanical level indicator. Fusible plug version available.



8004903192

LPG Forklift Carburation handwheel Valve with excess flow device and quick connection. Available different outlet tube



8004903110

LPG Forklift Carburation Quick Connection Valve with filter.



8008908175

LPG Forklift Carburation Quick Connection Valve with excess flow devices.

8064903217

LPG handwheel valve with filter. Customizable upon request.



Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
6602901275	25E	ø 22	26 bar
8008908175	17E	ø 22	/
8004903192	25E	ø 22	/
8004903184	25E	ø 22	35 bar
8004903110	ø 22.1 ± 0.075 x 2 Cone 10%	G.65	/



LPG Valves with Pressure Level Indicator



8003902164

The level gauge shows the amount of gas reserve in the cylinder, with parameters based on customer's request and the cylinder configuration. With excess flow limiter.

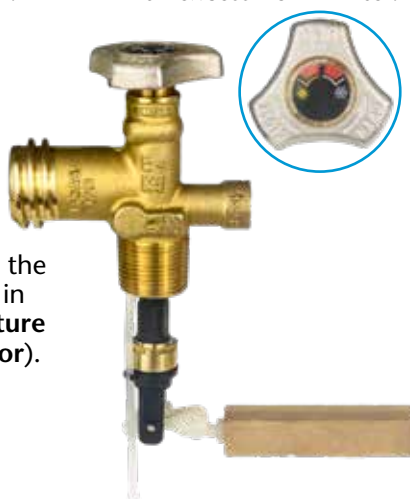
8003902180

The level gauge shows the amount of gas reserve in the cylinder, with parameters based on customer's request and the cylinder configuration. With excess flow limiter.



8008908197

The level gauge shows the amount of gas reserve in the cylinder (**temperature sensitive level indicator**).



8003902181

The level gauge shows the amount of gas reserve in the cylinder, with parameters based on customer's request and the cylinder configuration. With excess flow limiter.

8062901223

The level gauge shows the amount of gas reserve in the cylinder, with parameters based on customer's request and the cylinder configuration.



Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Outlet connection*
8003902164	ø 23.2 x 2 GPL Taper 10%	ø 21.7 x 1.814 NFE 29-650 GPL LH
8003902180	ø 23.2 x 2 GPL Taper 10%	ø 21.7 x 1.814 NFE 29-650 GPL LH
8003902181	ø 23.2 x 2 GPL Taper 10%	ø 21.7 x 1.814 NFE 29-650 GPL LH
8062901223	ø 23.2 x 2 GPL Cone 10%	W20 x 1/14" LH
8008908197	3/4" - 14 NGT	1.312-5 ACME - 2G RH-EXT

LPG Valves with Mechanical Level Indicator



6602901275

LPG Forklift
Carburation Quick
Connection Valve
with pressure relief
device, sinterized
filter and mechanical
level indicator.
Fusible plug version
available.

6602900316

LPG 27 mm Quick
Connection Valve with
mechanical level indi-
cator.



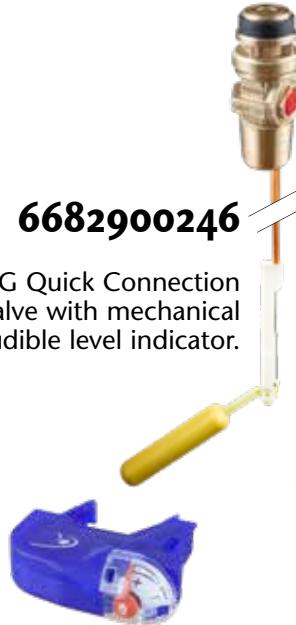
8008908220

LPG Handwheel Valve
with mechanical level
indicator.



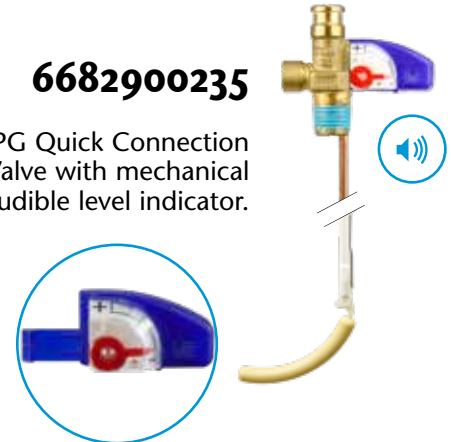
6682900246

LPG Quick Connection
Valve with mechanical
audible level indicator.



6682900235

LPG Quick Connection
Valve with mechanical
audible level indicator.



3009500048

Assembled dial



3089500005

Assembled dial for
Jumbo valves



Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
6602900316	25E	ø 27	26 bar
6682900235	ø 22.1 ± 0.075 x 2 Cone 10%	ø 20	26 bar
8008908220	17E	W21.8 x 1.14" LH	25 bar
6602901275	25E	ø 22	26 bar
8008908203	25E	.885-14 NGO LH INT	
8008908204	25E	.885-14 NGO LH INT	
80089008206	25E	.885-14 NGO LH INT	
8008908210	17E	.885-14 NGO LH INT	
8008908211	25E	.885-14 NGO LH INT	
8008908220	17E	W21.8 x 1/14" LH	25 bar
8008908223	17E	W21.8x1/14" LH	25 bar
6682900246	25E	G.56	26 bar
6682900254	25E	G.56	26 bar
6682900255	25E	G.56	26 bar



LPG Camping Valves



64B1900002

Campingvalve.



64B2900007

Campingvalve.



64B6900002

Camping valve with pressure relief device and dust retainer.



64B6900011

Camping valve with pressure relief device.



64B6900013

Camping valve with pressure relief device.



64B5900001

Self-closing Camping



64B5900002

Self-closing Camping

Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Outlet connection*	Relief Setting Reconditioning
64B1900002	1/2" - 14 NGT	W20x1.814 - LH	
64B2900007	17E	W20x1/14" LH	375 PSI
64B6900002	1/2" - 14 NGT	3/8" BSPF	2580 Kpa
64B6900011	3/4" - 14 NGT	3/8" - 19 BSPF - LH - EXT	175 PSI
64B6900012	18T	3/8" - 19 BSPF - LH - EXT	375 PSI
64B6900013	18T	3/8" - 19 BSPF - LH - EXT	375 PSI
64B5900001	M22 x 1.25 - 6g	M16 x 1.5 - 6H	/
64B5900002	M22 x 1.25 - 6g	M16 x 1.5 - 6H	/

LPG Dual Valves for Liquid & Gas Phases



6704901028

LPG Dual Valve with pressure relief device and excess flow device.
M 14 x 1 - 6H dip tube connection.



6704901036

LPG Dual Valve with pressure relief device and excess flow device.
Fast connection for easy dip tube assembly.



6602901023

Connector for the outlet of Dual Valve.

Ordering Information

*inlet and outlet connection according to country standards

Part number	Container connection*	Liquid Outlet connection*	Vapour Outlet connection*	Relief Setting Reconditioning
6704901036	3/4"-14 NGT	.903 -14 NGO LH EXT CGA 555	.885-14 NGO LH INT CGA 510	26 bar
6704901028	25.5 x 2 CIGPL / NF88 - 765	1 1/4" - 5 ACME - 2G	W21.8x1/14" LH	26 bar
6704901037	3/4"-14 NGT	0.625" - 18 UNF	G5/8" LH	26 bar



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Advanced solutions for gas control

Siraga



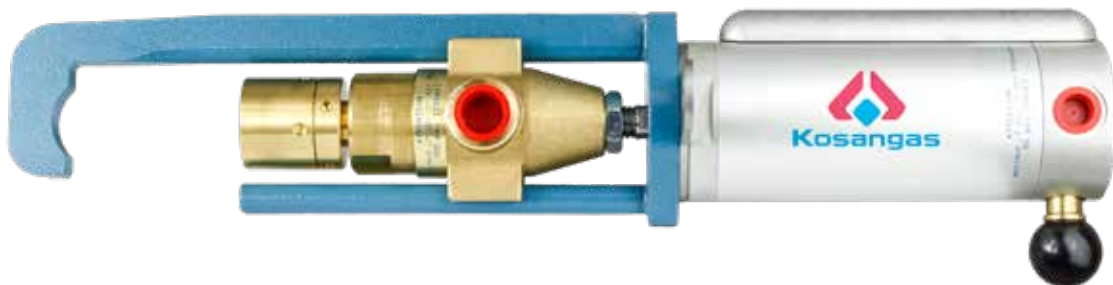
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Advanced solutions for gas control

Siraga

LPG Cylinders Filling Heads

LPG Filling Heads

PG. 18



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: G3/8 or W21,8 x 1/14 LH

Outlet connection: According to country standards.

Supply pressures: 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.

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 leak tight 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.



Reference Image

*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
6882900001	G3/8	ø 35 mm
6882900002	G3/8 or W 21,8 x 1/14 LH	ø 35 mm
6882900003	G3/8 or W 21,8 x 1/14 LH	ø 35 mm
6882900004	G3/8	ø 16 mm
6882900005	G3/8	ø 19 mm
6882900006	G3/8	ø 19 mm
6882900007	G3/8	ø 16 mm
6882900008	G3/8 or W 21,8 x 1/14 LH	ø 16 mm

LPG Filling Head

for LPG Valves 16, 19 and 35 mm
(Jumbo and Kosanova valves)
Semi-automatic

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: for LPG G3/8
for Pneumatic air G1/4 according to country standards

Outlet connection: According to country standards

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

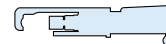
Function and Maintenance: The Filling Head is easy to operate. The head outlet is attached to the valve inlet manually. Once the pneumatic pressure is applied to the head it forces the internal components of the head to move towards the valve top thereby establishing a leak tight connection and once this is established the further movement of the components forces the valve spindle to open and simultaneously 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 backwards to stop the flow of gas and to disconnect the head from the valve. The head is removed manually.



Reference Image

*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
6882900020	LPG G3/8 PNEUMATIC AIR G1/4	ø 35 mm
6882900021	LPG G3/8 PNEUMATIC AIR G1/4	ø 35 mm
6882900023	LPG G3/8 PNEUMATIC AIR G1/4	ø 19 mm
6882900024	LPG G3/8 PNEUMATIC AIR G1/4	ø 19 mm
6882900027	LPG G3/8 PNEUMATIC AIR G1/4	ø 16 mm
6882900022	LPG G3/8 PNEUMATIC AIR G1/4	ø 16 mm
6882900028	LPG G3/8 PNEUMATIC AIR G1/4	ø 16 mm
6882900140	LPG G3/8 PNEUMATIC AIR øG1/4	ø 35 mm



LPG Filling Head for LPG Valves 16 mm Kosanova 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.



Reference Image

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: G1/4 or W21,8 x 1/14 according to country standards

Outlet connection: Ø16 mm according to country standards

Supply pressures: 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.

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 leak tight to the valve and the filling is initiated. When the cylinder is full the filling is stopped by firmly removing the filling head from the valve.

*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900025	W 21,8 x 1/14 LH	ø 16 mm
6882900026	G1/4	ø 16 mm
6882900135	W 21,8 x 1/14 RH	ø 16 mm

LPG Filling Head

for LPG Valves 20, 21, 22, 25.6, 27, 35 mm
Compact 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: G3/8 or W21,8 x 1/14 LH according to country standards

Outlet connection: According to country standards

Supply pressures: 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.

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 head makes a leak tight 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.

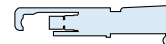
Suitable for: All compact valves outlets. Specify compact valve type when ordering.



Reference Image

*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
68.8.290.0009	ISO 228/1 - G3/8	ø 20 mm
68.8.290.0010	ISO 228/1 - G3/8 or W 21,8 x 1/14 LH	ø 20 mm
68.8.290.0011	ISO 228/1 - G3/8 or W 21,8 x 1/14 LH	ø 20 mm
68.8.290.0012	ISO 228/1 - G3/8	ø 27 mm
68.8.290.0013	ISO 228/1 - G3/8	ø 22 mm
68.8.290.0014	ISO 228/1 - G3/8 or W 21,8 x 1/14 LH	ø 22 mm
68.8.290.0015	ISO 228/1 - G3/8	ø 21 mm
68.8.290.0016	W 21,8 x 1/14 LH	ø 21 mm
68.8.290.0017	DIN 259-1/2" NPT	ø 21 mm
68.8.290.0018	ISO 228/1 - G3/8	ø 25.6 mm
68.8.290.0124	ISO 228/1 - G3/8	ø 20 mm
68.8.290.0139	ISO 228/1 - G3/8 or W 21,8 x 1/14 LH	ø 35 mm



LPG Filling Head for Standard Handwheel Valve Male

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.
3. Slim design makes it easy to handle and it fits easily inside any shroud.

Inlet connection: LPG: 3/8" GAS

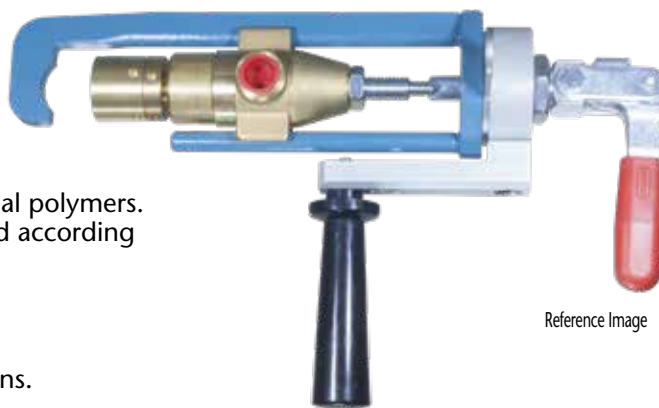
Outlet connection: According to country standards

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

Function and Maintenance: The Filling Head is easy to operate. The clamping brace is placed around the neck of the standard Handwheel valve once the filling head outlet is aligned with the valve using the open/close handle.

After connecting, the flow of gas is initiated by switching the handle from the closed to the open position. When the filling operation should end the handle on the filling head top is switched back to the closed position and the filling head is disconnected from the valve.

Suitable for: A wide range of standard LPG Handwheel valve male thread with and without SRV.



Reference Image

*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
6882900157	G3/8	Standard Handwheel Valve Male thread outlet with and without SRV
6882900161	G3/8	Standard Handwheel Valve Male thread outlet with and without SRV (special gasket connection)



LPG Filling Head

for LPG Valves 20, 21, 22, 24.8, 25.6, 27 mm
Compact 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.
3. Slim design makes it easy to handle and it fits easily inside any shroud.

Inlet connection: for LPG G3/8
for Pneumatic air G1/4

Outlet connection: According to country standards

Supply pressures: 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.

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 leak tight connection and once this is established the further movement of the components forces the valve spindle to open and simultaneously 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 backwards to stop the flow of gas and to disconnect the head from the valve. The head is removed manually.

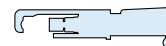
Suitable for: All compact \varnothing valve outlets.



Reference Image

*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
6882900029	LPG G3/8 - Pneumatic air G1/4	\varnothing 27 mm
6882900030	LPG G3/8 - Pneumatic air G1/4	\varnothing 20 mm
6882900031	LPG G3/8 - Pneumatic air G1/4	\varnothing 22 mm
6882900032	LPG G3/8 - Pneumatic air G1/4	\varnothing 21 mm
6882900033	LPG G3/8 - Pneumatic air G1/4	\varnothing 21 mm
6882900034	LPG G3/8 - Pneumatic air G1/4	\varnothing 25.6 mm
6882900116	LPG G3/8 - Pneumatic air G1/4	\varnothing 24.8 mm
6882900137	LPG G3/8 - Pneumatic air G1/4	\varnothing 22 mm
6882900138	LPG G3/8 - Pneumatic air G1/4	\varnothing 21 mm



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, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549.



Reference Image

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.

Inlet connection: LPG: G1/4

Outlet connection: Connects to camping ball valve with female threaded outlet M16 x 1,5 mm- or 3/8 BSP RH.
Valves without and without PRV.

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

Function and Maintenance: The Filling Head is easy to operate.
The threaded filling gun outlet is connected to the valve 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 lightening 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 6405902028

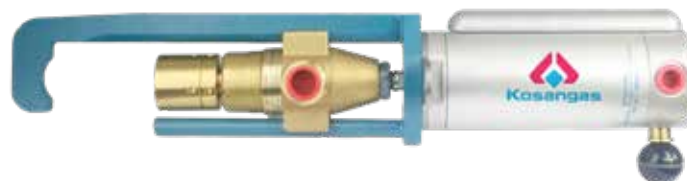
*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
6882900053	G1/4	M16 x 1,5
6882900113	G1/4	M16 x 1,5
6882900118	G1/4	3/8 19 BSP RH
6882900120	G1/4	3/8 19 BSP RH
6882900159	G1/4	3/8 19 BSP RH
6882900163	W21.7x1/14" RH	W21.8x1/14" LH

LPG Filling Head for Handwheel Valves Semi-automatic

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.



Reference Image

FEATURES

1. Insignificant loss of product (1 cm³) 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 manually 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.

Inlet connection: LPG G3/8 - Pneumatic air G1/4

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

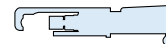
Supply pressures: Designed to operate within the normal supply pressures.
Pneumatic supply: 6 - 10 bar. Liquid filling product: 1 - 15 bar
Filling time as per the present valve specification.

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 leak tight 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.

*inlet and outlet connection according to country standards

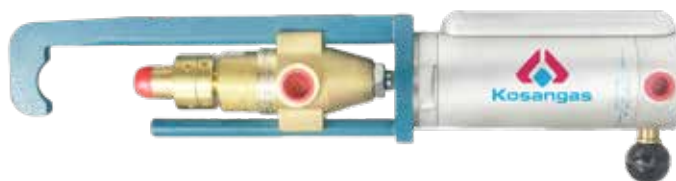
REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
6882900042	LPG G3/8 PNEUMATIC AIR G1/4	Standard Handwheel male outlet without SRV Type 129A
6882900049	LPG G3/8 PNEUMATIC AIR G1/4	Standard Handwheel male outlet without SRV Type 129A
6882900136	LPG G3/8 PNEUMATIC AIR G1/4	Standard Handwheel male outlet without SRV Type 129A



LPG Filling Head for Handwheel Valves with POL Outlet Semi-automatic

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.



Reference Image

FEATURES

1. Insignificant loss of product (1 cm³) 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 manually 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.

Inlet connection: LPG G3/8
Pneumatic air G1/4.

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

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

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 leak tight 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.

*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
6882900044	LPG G3/8 PNEUMATIC AIR G1/4	Female POL thread valves with and without SRV Type 129A
6882900133 (left hand version)	LPG G3/8 PNEUMATIC AIR G1/4	Female POL thread valves with and without SRV Type 129A
6882900054	LPG G3/8 PNEUMATIC AIR G1/4	Female POL thread valves with and without SRV Type 129A
6882900048	LPG G3/8 PNEUMATIC AIR G1/4	Female POL thread valves with and without SRV Type 129A

LPG Filling Head for Bayonet and Clip-on Valves Semi-automatic

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.



Reference Image

FEATURES

1. Insignificant loss of product (1 cm³) 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 manually 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.

Inlet connection: LPG G3/8
Pneumatic air G1/4.

Outlet connection: Connects to bayonet 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.

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 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 leak tight 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 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 6602900136, 6602900145.

*inlet and outlet connection according to country standards

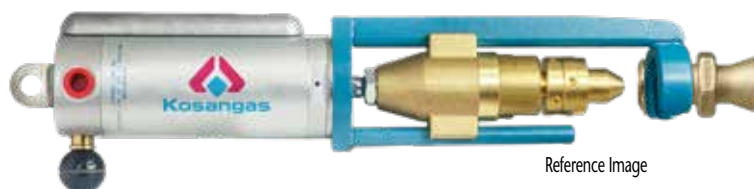
REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900046	LPG G3/8 PNEUMATIC AIR G1/4	Automatic bayonet valve with and without SRV Type 129A
6882900109	LPG G3/8 PNEUMATIC AIR G1/4	Clip-on cylinder valve



LPG Filling Head for Coupling 66-0-290-1024 Semi-automatic

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.



Reference Image

FEATURES

1. Insignificant loss off product (1 cm³) 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 manually 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.

Inlet connection: LPG G3/8
Pneumatic air G1/4.

Outlet connection: Connects to Omeca Coupling 6602901024 (ACME Thread)

Supply pressures: 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.

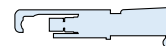
Packing: The Filling Heads are individually packed in cardboard boxes with instructions.

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 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 leak tight 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 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: Valve 6662901024.

*inlet and outlet connection according to country standards

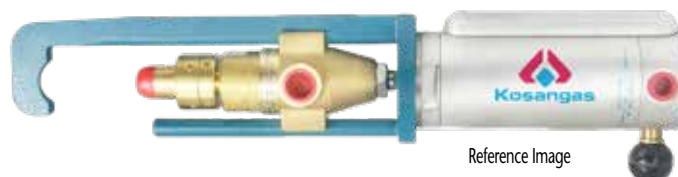
REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
68.8.290.0047	LPG G3/8 PNEUMATIC AIR G1/4	Omeca coupling 66.0.290.1024 Type 129A



LPG Filling Head for Handwheel Valves with OPD Semi-automatic

MATERIALS AND STANDARDS

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



Reference Image

FEATURES

Safe operation, easily connected and manually operated.

Inlet connection: LPG G3/8
Pneumatic air G1/4.

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

Supply pressures: 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.

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 leak tight 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. (reference model 6704900780)

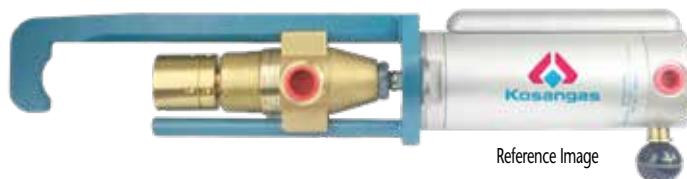
*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
68.8.290.0045	LPG G3/8 PNEUMATIC AIR G1/4	OPD - female POL thread valve with check-lock with and without SRV Type 129A
68.8.290.0050	LPG G3/8 PNEUMATIC AIR G1/4	OPD - female POL thread valve with check-lock with and without SRV Type 129A
68.8.290.0052	LPG G3/8 PNEUMATIC AIR G1/4	OPD - female POL thread valve with check-lock with and without SRV Type 129A

LPG Filling Head *for Handwheel Valves without SRV* **Semi-automatic**

MATERIALS AND STANDARDS

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.

Inlet connection: LPG G3/8
Pneumatic air G1/4.

Outlet connection: Connects to standard outlet male thread valves without SRV.

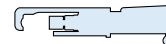
Supply pressures: Designed to operate within the normal supply pressures.
Pneumatic supply: 6 - 10 bar.
Liquid filling product: 1 - 15 bar.
Filling time as per present valve specification.

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.

Suitable for: A wide range of standard LPG hand wheel (SAE FLARE) valves without SRV.

*inlet and outlet connection according to country standards

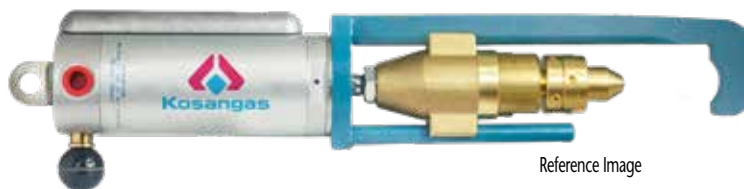
REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION *
68.8.290.0051	LPG G3/8 PNEUMATIC AIR G1/4	Standard Handwheel (SAE FLARE) male outlet without SRV Type 129A



LPG Filling Head for Forklift Valves Semi-automatic

MATERIALS AND STANDARDS

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



Reference Image

FEATURES

Safe operation, easily connected and manually operated.

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

Outlet connection: Connects to ACME - type Fork lift truck valves with SRV.

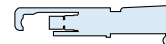
Supply pressures: Designed to operate within the normal supply pressures.
Pneumatic supply: 6 - 10 bar.
Liquid filling product: 1 - 15 bar.
Filling time as per present valve specification.

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 leak tight 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: Fork lift truck valves with ACME female outlet.

*inlet and outlet connection according to country standards

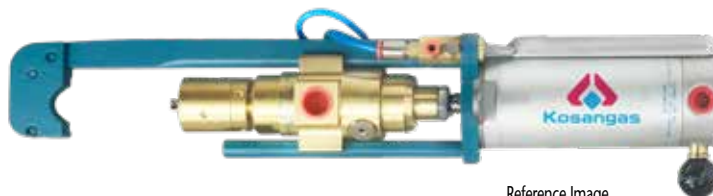
REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION*
68.8.290.0103	LPG G3/8 PNEUMATIC AIR G1/4	Fork lift truck - female ACME thread valve with check-lock with SRV



LPG Filling Head *for LPG Valves with Anti-filling device* **Semi-automatic**

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.



Reference Image

FEATURES

1. Insignificant loss of product (1 cm³) 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 manually 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.

Inlet connection: LPG: 3/8" G, Pneumatic air: 1/4" G

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

Supply pressures: Designed to operate within the normal supply pressures.

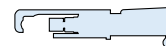
Pneumatic supply: 6 - 10 bar. Liquid filling product: 1 - 15 bar Filling time as per the present valve specification.

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 leak tight 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 with antifilling device.

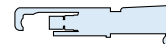
*inlet and outlet connection according to country standards

REFERENCE NUMBERS	INLET CONNECTION*	OUTLET CONNECTION *
6882900168	LPG G3/8 PNEUMATIC AIR G1/4	Standard LPG valve with antifilling Type 129A













LPG Filling Heads

Valve Model	Semi-Automatic Filling Heads	Manual Filling Heads
 Kosanova 16 mm 176A, 130K	6882900022 6882900027	6882900004 6882900007 6882900008
 Kosanova 16 mm 176A, 179D	6882900022 6882900027 6882900028	6882900025 6882900026 6882900135 (Dx)
 Kosanova 19 mm 130L	6882900023 6882900024	6882900005 6882900006
 Jumbo, Kosan 35mm type 130B	6882900020 6882900021	6882900001 6882900002 6882900003
 Compact 20 mm (Quick-on)	6882900030	6882900010 6882900011 6882900124 6882900009
 Compact 21 mm (Quick-on)	6882900032 6882900033 6882900138	6882900015 6882900016 6882900017
 Compact 22 mm (Quick-on)	6882900031 6882900137	6882900013 6882900014
 Compact 24,8 mm (Quick-on)	6882900116	/
 Compact 25,6 mm (Quick-on)	6882900034	6882900018
 Compact 27 mm (Snap-Tight)	6882900029	6882900012
 Compact 35 mm (Snap-On) (66.0.290.1256)	6882900140	6882900139
 Camping valve (M16x1,5)	/	6882900053 6882900113 6882900159
 Camping valve (3/8" - 19BSP)	/	6882900120 6882900118
 Standard Handwheel Valve Male Thread outlet	6882900042 6882900049	/
 Standard Handwheel Valve POL outlet (example: 80.0.490.3135 80.0.490.5016 80.0.890.8198)	6882900044 6882900133 6882900054 6882900048	6882900129



LPG Filling Heads

Valve Model	Semi-Automatic Filling Heads	Manual Filling Heads
 Omega valve (example 67.0.490.0780)	6882900045	/
 Bajonet valves (examples 66.0.290.0136 66.0.290.0145)	6882900046	/
 Omega coupling (example 66.0.290.1024)	6882900047	/
 Fork lift truck G3/8 sin.	6882900103	/
 OPD valves Type 1 ACME American valves	6882900050 6882900052	6882900055
 3/8" SAE Flare outlet (example 80.0.390.2062)	6882900051	/
 Filler Valve 1 3/4" x 6 ACME (examples 6602901122 6602901043)	/	6882900057 6882900234
 Standard LPG valve with anti-filling (example 80.6.490.3003)	6882900168	/
 Standard Handwheel Valve Male thread outlet (example 8003902051)	Not applicable	6882900157 6882900161
 Clip on cylinder valve (example 6602901235)	6882900109	Not applicable

LPG Tank Equipment

Pressure Relief Valves	PG. 36
Safety Valves	PG. 38
Filler Valves	PG. 40
Liquid Withdrawal Valves	PG. 44
Multi-service Valves	PG. 46
LPG Float Gauges	PG. 50





External Pressure Relief Valves



EU 19
7000900014

Pressure relief valve with conical thread between valve and lower check valve.

ST 19
7100900005



EU 29
7000900016

ST 29
7100900015



EU 24
7000900008

ST 24
7100900010



EU 30
7001900004

Safety relief valve with cylindric thread to be used in connection with the lower check valve.
Tightness assured by bonded seal.

ST 30 / ST 32
7101900004 / 7101900011



EU 20
7001900026

ST 20
7101900016

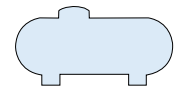


EU 25
7001900205

ST 25
7101900000

Ordering Information

Part number	Bottom Male connection	Thread type		Configuration suitable for this capacity (L)	PRV - Start to discharge setting (bar)	PRV Overpressure 10%	PRV Orifice (mm)
		Taper	Parallel			Capacity Nm³/min.	
7000900014 (EU 19) - PRV 7100900005 (ST 19) - CLD	3/4" NPT 1 1/4" NPT	x x		1000	Basic Setting 256 PSI 17,65 bar	46	19
7001900026 (EU 20) - PRV 7101900016 (ST 20) - CLD	3/4" NPSM 1 1/4" NPT	x	x			43	19
7000900004 (EU 30) - PRV 7100900004 (ST 30) - CLD	1 1/4" NPSM 1 1/2" NPT	x	x	3000/5000		118	29,5
7001900008 (EU 24) - PRV 7101900010 (ST 24) - CLD	1" NPT 1 1/4" NPT	x x		1750		81	23,5
7001900205 (EU25) - PRV 7101900000 (ST 25) - CLD	1" NPSM 1 1/4" NPT or 1" NPT	x	x			76	23,5
7001900004 (EU30) - PRV 7101900011 (ST 32) - CLD	1 1/4" NPSM 2" NPT	x	x	3000/5000		121	29,5



External Pressure Relief Valves



VS 60 7000900080

Safety relief valve with high flow capacity.

VS 456^{16 bar} VS 457^{17 bar}

7001900015
7001900031

Pressure relief valve with a lower check valve.

0401102587

Gasket

ST 45 7101900030

VS 367^{17 bar}

VS 368^{18 bar}

7001900020
7001900008

Pressure relief valve with a lower check valve available with different inlet threads.

ST 36 7101900026

6602901140

Pressure relief valve for small containers and on-line pipe installations.



Ordering Information

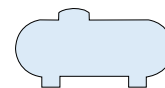
Part number	Bottom Male connection	Thread type		Configuration suitable for this capacity (L)	PRV - Start to discharge setting (bar)	PRV Overpressure 110%	PRV Orifice (mm)
		Taper	Parallel			Capacity Nm ³ /min.	
7000900016 (EU 29) - PRV	1 1/4" NPT	x		3000/5000	basic 17,65**	118	29,50
7100900015 (ST 29) - CLD	2" NPT	x					
6602901280 - PRV	1/4"-18 NPT	x		-	17,24	8,1 (at 120%O.)	7,4
7001900020/0008 (VS 367/368) - PRV	M 36 x 2		x	1000	17 and 18**	79,8 and 84,7	24,50
7101900026 (ST 36) - CLD	1 1/4" NPSM	x					
7001900015/0031 (VS 456/457) - PRV	M 45 x 2		x	1750-3200	16 and 17**	100,6 and 110	29,50
7101900030 (ST 45) - CLD	2" NPT	x					
7001900229 (VS 45)	M 45 x 2		x		17		
7101900025	2" - 11.5 NPT	x					
6602901139	1/4"-18 NPT	x			17,24		
6602901140	1/4"-18 NPT	x			25,85 (375PSI)		
6602901280	1/4"-18 NPT	x			17,24	8,1 (at 120%)	
6602901299	1/2" NPT	x			17,24	119,5 (at 120%)	

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.



PV Series

The safety valve PV has separate functions of discharge and calibration.
The calibration function is fulfilled by a replaceable cartridge.
The valve is installed directly in the tank and allows the following benefits:

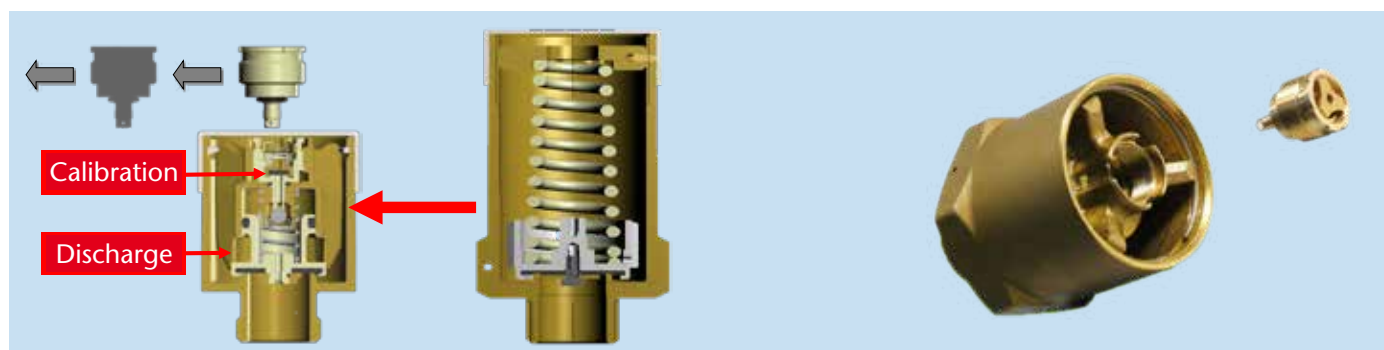
ECONOMICAL: Simplifies operations related to the biennial operative validation foreseen by D.M. 329/04 and reduces drastically the cost.

PRATICAL: It is interchangeable with EU series valve and therefore can be mounted on the corresponding check-lock series valve.

SAFE: Increases in time the guaranteed stability of parameter settings.

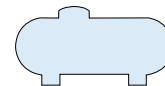
ECO COMPATIBLE: More compact than standard products on the market.

Available for all dimensions of stationary tanks and different threads.
Approved to European standard EN 14129 , UL 132 and Code ASME VIII.



PV Safety valve with separate functions : calibration function and discharge Traditional External Security Valve

Extreme cost reduction of the safety valves re - inspection



PV Series



Part number	Inlet	Outlet
7101900016 - ST 20	1 1/4"-11,5 NPT	3/4"-14 NPSM
7101900000 - ST 25	1 1/4"-11,5 NPT	1"-11.5 NPSM
7101900004 - ST 30	1 1/2"-11,5 NPT	1 1/4"-11,5 NPSM
7101900011 - ST 32	2"-11,5 NPT	1 1/4"-11,5 NPSM

Ordering Information

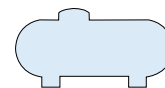
Part number	Inlet Connection	PRV Orifice (mm)	PRV - Start to discharge setting (bar)	Flow Capacity (m³/min)	
				110% PN	120% PN
7001900206 - PV 20	1 1/4"-11,5 NPT	19	Default Configuration 256 PSI 17,65 bar Customizable upon request	56,4	61,2
7001900207 - PV 25	1" - 11.5 NPSM	24,5		76,2	82,8
7001900208 - PV 30	1 1/4" - 11.5 NPSM	29,5		111,9	121,6



Replacement Kit
6803900004

Ordering Information

Part number	Inlet Connection	PRV Orifice (mm)	PRV - Start to discharge setting (bar)	Flow Capacity (m³/min)	
				110% PN	120% PN
7000900204 - PV 19	1 1/4"-11,5 NPT	19	Default Configuration 256 PSI 17,65 bar Customizable upon request	59,4	64,9
7000900205 - PV 24	1 1/4"-11,5 NPT	24,5		90,1	97,9
7000900210 - PV 29	1 1/4"-11,5 NPT	29,5		132,0	143,5
7000900207 - PV 31	2"-11,5 NPT	29,5		132,0	143,5



Filler Valves



VRN 20
6602901043



VRN 20 45°
6602901233



VRN 20L
6602901063

- 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
- Smaller filling upper chamber to avoid waste of liquid lpg during every filling operation
- VRN 20L - 66.1063 is designed to make underground tank installations more accessible to fillers.
- VRN 20 45° is designed to make the filling process more user friendly.

Ordering Information

Part number	Tank connection	Filler connection	Lpg liquid capacity at various differential pressure (GPM)			
			10 PSI	25 PSI	50 PSI	75 PSI
6602901063 (VRN 20L)	1 1/4" - NPT	1 3/4" - 6 ACME	54	100	148	190
6602901043 (VRN 20)	1 1/4" - NPT	1 3/4" - 6 ACME	54	100	148	190
6602901233 (VRN 20 45°)	1 1/4" - 11.5 NPT	1 3/4" - 6 ACME 2G	54	100	148	190



Unloading adapter for Container Evacuation



Application

Designed to provide an efficient means of evacuating an LP-Gas container for relocation or repair. The Unloading adapter can be used to withdraw liquid provided in the container and withdraw the remaining Vapor phase. It threads directly onto 1-1/4" ACME male hose connection of Cavagna Filler Valve series VRN.

Materials

Brass: UNI EN 12164

Handwheel: Aluminium UNI EN 1706

Rubber seals: UNI EN 549

Working Temperature:
-20°C : +60°C (-4°F : 140°F)

Part Number	Style	Filler Valve Connection	Hose Connection
6802900211	In-Line	1-3/4" ACME	1-1/4" ACME

Filler Valves with Manual Ball Shut-off Safety Features



VRN 93
6602900221

VRN 88
6704900681



- 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
- Emergency ball shut-off valve incorporated
- 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
- All our filler valves have a filling capacity $\geq 8 \text{ m}^3$ water $\Delta p = 4 \text{ bar}$

Ordering Information

Part Number	Tank connection	Filler connection
6602900221 (VRN 93)	1 1/4" - NPT	1 3/4" - 6 ACME
6704900681 (VRN 88)	1 1/4" - NPT	1 3/4" - 6 ACME



Filler Valves with Overfilling Prevention Safety Device (VRNSC series)



6602901101

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



6602901106

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



6602901107

Double Filling Valve with Automatic Stop and Manual Cut off Device.

6602901136

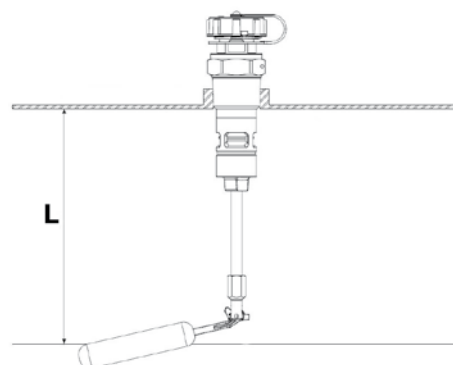


6602901145

Double Filling Valve with Automatic Stop and Manual Cut off Device.

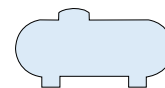
APPLICATION

These filler valves are designed for horizontal and vertical LPG containers. All the valves are equipped with an overfilling 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 $\geq 8 \text{ m}^3$ water $\Delta p = 4 \text{ bar}$.



Ordering Information

Part number	Tank connection	Filler connection	Specify tank dimension when ordering
6602901101	1 1/4" NPT	1 3/4" -6 ACME	L
6602901106	1 1/4" NPT	1 3/4" -6 ACME	L
6602901145	1 1/4" NPT	1 3/4" -6 ACME	L
6602901136	1 1/4" NPT	1 3/4" -6 ACME	L
6602901107	1 1/4" NPT	1 3/4" -6 ACME	L
6602901146	1 1/4" NPT	1 3/4" -6 ACME	L
6602901279	1 1/4" NPT	1 3/4" -6 ACME	L
6602901314	1 1/4" NPT	1 3/4" -6 ACME	L

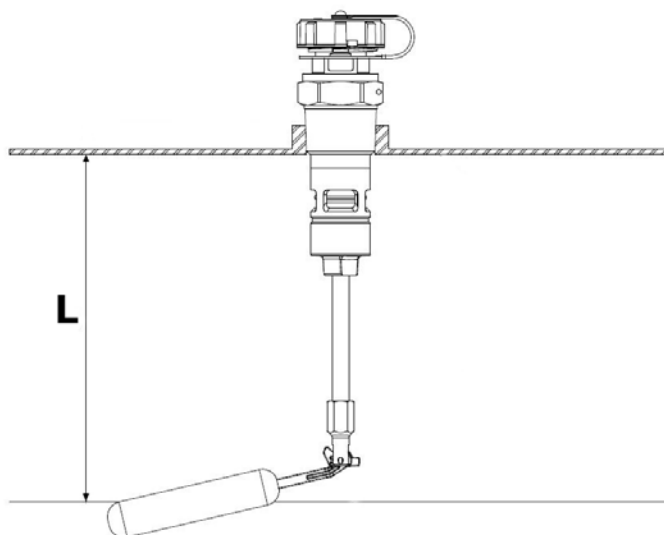


Filler Valves with Overfilling Prevention Safety Device



6602901387

Filler valve suitable for underground tank.
Specify tank size when ordering.



APPLICATION

These filler valves are designed for horizontal and vertical LPG containers. All the valves are equipped with an overfilling 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 $\geq 8 \text{ m}^3$ water $\Delta p = 4 \text{ bar}$.

Ordering Information

Part number	Tank connection	Filler connection	Specify tank dimension when ordering
6602901385	1 1/4" NPT	1 3/4" -6 ACME	L
6602901386	1 1/4" NPT	1 3/4" -6 ACME	L
6602901387	1 1/4" NPT	1 3/4" -6 ACME	L
6602901388	1 1/4" NPT	1 3/4" -6 ACME	L
6602901389	1 1/4" NPT	1 3/4" -6 ACME	L



Liquid Withdrawal Valves



VL 13
6902900008

Liquid withdrawal valve



VL 25
6902900005

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



LF 25 C
6901900040

Liquid Reclaiming Valve



68.0233
6802900233

Connector

RL 15
7200900006

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



RL 25
7200900025

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



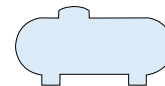
RRL 16 A-P
6704900797 / 0793

Liquid withdrawal valve complete with protection cap.



Ordering Information

Part number	Container connection	Outlet connection
6901900040 (LF 25 C)	1 1/4" - 11.5 NPT	3/4" - 14 NPT
6902900008 (VL 13)	3/4" - 14 NPT	3/4" - 14 NPT (plugged)
6902900005 (VL 25)	1 1/4" - 14 NPT	M 25 x 1.5 (plugged)
7200900006 (RL 15)	3/4" - 14 NPT	M 30 x 1.5
7200900025 (RL 25)	M 25 x 1.5	M 30 x 1.5
6704900793 (RRL 16)	3/4" - 14 NPT (with*/without* tube threading 3/4" 28UN-2B for dipping)	3/4" - 14 NPT (with plug cap)
6704900797 (RRL 16)	3/4" - 14 NPT	3/4" - 14 NPT (with plug cap)
6802900233	3/4" - 6 ACME	3/4" - 6 ACME



Liquid Withdrawal Valves



6802900231

Liquid Reclaiming
Connector



6704901073

Liquid Reclaiming valve
with incorporated
excess flow device.



6802900232

Liquid Reclaiming
Connector



7200900110

Liquid Reclaiming valve
with incorporated
excess flow device

Ordering Information

Part number	Container connection	Outlet connection
6704901073	1 1/4" - 11.5 NPT	1" 11.5 NPT
6802900231	M 25 x 1.5-6	3/4" - 6 ACME
6802900232	3/4" - 14 NPT	3/4" - 6 ACME
6802900233	3/4" - 6 ACME	3/4" - 6 ACME
7200900110	3/4" - 14 NPT	1 5/8" - 12 UN-2A
7200900111	1 1/4" - 11 NPT	1 5/8" - 12 UN-2A



Multi-Service Valves



GSE 35

6704900776

Aboveground and Underground versions available

Multi-Service 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 device.

Excess Flow device

Part number	Container Connection	Outlet Connection	Excess flow device
1609500039	880" 14 NGO LH-EXT	W20x1/14"-Sin	50 Kg/h
1609500052	880" 14 NGO LH-EXT	W20x1/14"-Sin	95 Kg/h



GS 41

Aboveground and Underground versions available

Multi-Service Valve with vertical outlet and fixed liquid level tube which ensures 80% max. filling of the tank.

It incorporates an excess flow device valve, which closes when the flow reaches a rate of 42÷54 Kg/h lpg (a first stage lpg regulator with 40 Kg/h capacity and 2 bar setting point can be attached).



GS 50

6704900775

Aboveground and Underground versions available

Multi-Service 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 device valve, which closes when the flow reaches a rate of 42 ÷ 54 Kg/h lpg (a first stage lpg regulator with 40 Kg/h capacity and 2 bar setting point can be attached).

Ordering Information

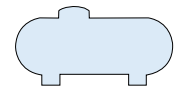
Part number	Container Connection	Outlet Connection	Excess flow device	Closing Flow (Lpg)	Fixed level gauges with dip tube	Master gauge insp. flange	Relief devices
GSE 35 above gr. GSE 35 undergr.	3/4" – 14 NPT	885" – 14 NGO LH-INT	Installed onto outlet connector	Between 42-54 kg/h lpg ⁽¹⁾	Available on all types with tubes in different lengths**	Yes	N/a
GS 41 above gr.	3/4" – 14 NPT	UNI ISO 228/1-G 3/4-B	Inlet Built-in			N/a	N/a
GS 50 above gr. GS 50 undergr.	3/4" – 14 NPT	W20x 1/14"LH	Inlet Built-in for both			Yes	N/a

* item 1609500039/0052. 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 device 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.



Multi-Service Valves



GS 80

8008908217 (Underground)

8008908092 (Aboveground)

Service valve equipped with a pressure gauge in glycerine bath, 0-25 bar scale, and fixed level gauge to ensure 80% of tank filling.



GS 89

6704900774

Multi-Service Valve with vertical outlet and fixed liquid level tube which ensures 80% max. filling of the tank. It incorporates an excess flow device valve, which closes when the flow reaches a rate of 42÷54 Kg/h lpg (a first stage lpg regulator with 40 Kg/h capacity and 2 bar setting point can be attached).



GS 90 6704900809 (Underground)

GS 90 L 6704900820 (Underground with fixed level gauge)

GS 90 H 6704901013 (Aboveground with fixed level gauge)

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



6704901060

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

Ordering Information

Part number	Container Connection	Outlet Connection
8008908217 (GS 80 under gr.) 8008908092 (GS 80 above gr.)	3/4" - 14 NGT	0.885" - 14 NGO LH-INT
6704900773 (GS 89 above gr.) 6704900774	1 1/4" - 11.5 NPT	UNI ISO 228/1-G 3/4-B
6704900809 (GS 90 undergr.)	1 1/4" - 11 1/2 NPT	UNI ISO 228/1-G 3/4-B
6704901013 (GS 90 above gr.)	3/4"-14 NPT	M20 x 1.5 -6g
6704901060	3/4" M NPT	0.885" - 14 NGO LH-INT



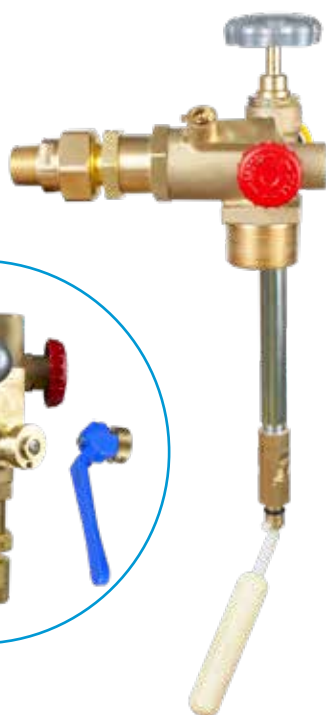
Combo Multi-Service Valves



6704901071

The SP valve is a combo multi-valve designed for 450kg LPG cylinder, with high capacity liquid fill rate: 140Liters/min. The components may be replaced without emptying the cylinder. Built in excess flow device fixed liquid level gauge.

Part Number	Inlet Connection	Filling Connection	Offtake valve male	Dip Tube	Withdrawal Tube	Eduction Tube	Vapor Connection
6704901071	1"-1/2x11.5 NPT	1 3/4-6 ACME-G	3/4"-14 NPT	10-32 UNF-2A	M16x1 - 6g	M17x1 - 6g	n/a



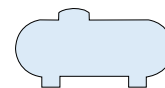
6704901072

6704901072 valve is a combo multi-valve designed for LPG Tank, with high capacity liquid fill rate: 100Liters/min with OPD.



Part Number	Inlet Connection	Filling Connection	Offtake valve male	Dip Tube	Withdrawal Tube	Vapor Connection
6704901072	1"-1/2x11.5 NPT	1 3/4-6 ACME-G	1"5/8-12UN-2A	10-32 UNF-2A	M16x1 - 6g	885" - 14 NGO LH-INT
6704900826	1"-1/2x11.5 NPT	1 3/4-6 ACME-2G	M36x2 - 6g	10-32 UNF-2A	M16x1 - 6g	885" - 14 NGO LH-INT

Tubes available for variable vessel sizes.



Underground Multi-Service Valve



6704901062

Multi-Service Valve
with PV Safety valve



6704901070

Multi-Service Valve

6704901034

Multi-Service Valve with
Overfilling prevention device



These filler valves are designed for horizontal and vertical LPG containers. All the valves are equipped with an overfilling 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 $\geq 8 \text{ m}^3$ water $\Delta p = 4 \text{ bar}$.

Ordering Information

Part number	Tank connection	Filler connection	Specify tank dimension when ordering
6704901034	2 1/2" - 8 NPT	1 3/4" ACME	*
6704901035	2 1/2" - 8 NPT	1 3/4" ACME	*
6704901070	2 1/2" - 8 NPT	1 3/4" - 6 ACME	*
6704901062	2 1/2" - 8 NPT	3/4" - 14 NPT	*



LPG Float Gauges

The 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:

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

The indicator is complete with plastic cover, or gasket and stainless steel screws.

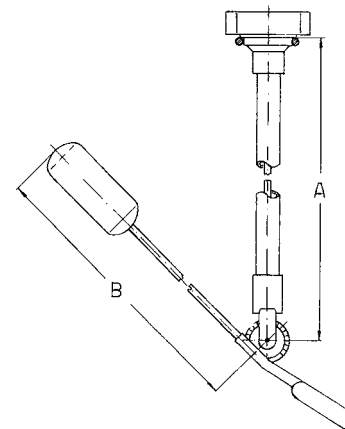
All gauges can be manufactured in brass or in zamak.

Available also with metal cover.

Customized float gauges can be supplied on demand.

LPG Float Gauges with 4 Screws

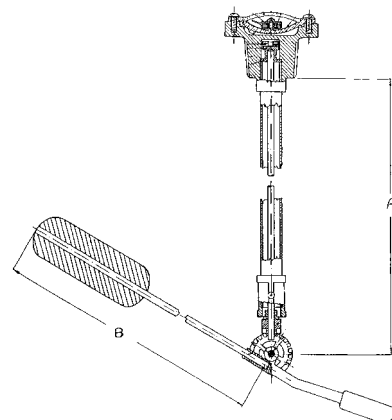
LPG TANK LEVEL GAUGES			
Cod.	Tank model	Ø	Lt.
2070/I A	horizontal	800	990/1000
2071/I A	horizontal	1000	1750/1800
2072/I A	horizontal	1200	3000/5000
2073/I A	horizontal	1250	-
2075/I A	vertical	800	500
2076/I A	spherical	-	990
2077/MTI-E TVA	vertical	1000	1000
2078/MTI-E TVA	vertical	1200	1500/1650
2078-2INT/I TVA	vertical	1200	2250/2300



LPG Float Gauges with Thread



LPG FLOAT GAUGES WITH THREAD 1"							
Cod.	Tank					Dimensions	
	Ø Inches	Ø mm.	Type	Gallons	Litres	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

LPG FLOAT GAUGES WITH THREAD 1" 1/4							
Cod.	Tank					Dimensions	
	ø Inches	ø mm.	Type	Gallons	Litres	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

Part number	Tank Model	Ø	Lt.
2050.U-19	Horizontal	760 mm	950 lt
2050.U-20	Horizontal	940 mm	1890 lt
2050.U-21	Horizontal	1020 mm	3780/5300 lt
2050.U-22	Horizontal	1220 mm	7570 lt

2074-18	Horizontal	1900 mm	>5000 lt
2074-19	Horizontal	2350 mm	>5000 lt
2074-46	Horizontal	1600 mm	-

Indicator	
2091/A	Lt. 500 Dial without glycerine for horizontal tanks
2091/V-A	Dial without glycerine for vertical tanks
2091/S-A	Dial without glycerine only for spherical tanks
2091/INT 2	Dial without glycerine only for vertical tanks Lt. 2250



High Volume Tanks
& Autogas Tanks



Small Bulk Tanks



Side Mounting LPG Float Gauges

2080-00X(*)
67.0.490.0807

Side Mounting Gauge



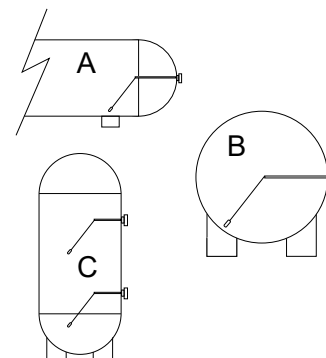
These filler valves are designed for horizontal and vertical LPG tanks.
The valves are equipped with O-ring.

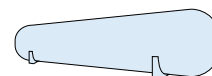
The valve is composed by stainless steel screws and plastic cover. Dial without glycerine.

* The final code is defined before the order according to the tank dimensions and to the level gauge position of the tank.

Ordering Information

Part number	Kind of Tank	Mounting of the Tank
2080-00X(*)	Horizontal	End (A)
		Shell (B)
2081-00X(*)	Vertical	Shell (C)





Storage Facilities

PV-60

7000900218 CE

7000900233 UL LISTED

The new PV 60 safety valve is designed for large tanks. This valve introduces an important new feature, namely that of a replacement cartridge, which means that you no longer have to replace the entire safety valve. The PV 60 valve has both economic and operational advantages.



0109500228 CE

0109500223 UL LISTED
Replaceable cartridge*

6803900075 UL LISTED

6803900074 CE

Cartridge
Replacement Kit



Ordering Information

Part Number	Bottom Male Connection	Wrench grip hexagon	PRV - Start to Discharge Setting	PRV-OVERPRESSURE 20%		Approval
				CAPACITY SCFM-AIR		
7000900218	2 1/2"-8 NPT	4"	17.24 bar	321,0 m3/min	/	CE
7000900233	2"-11.5 NPT	4"	250 PSIG	12605 SCFM (UL)	11433 SCFM (ASME)	UL/ASME
0109500228 (type F)			250 PSIG			
0109500223 (type A)			17.24 bar			
6803900075	Cartridge Replacement Kit (USA)					
6803900074	Cartridge Replacement Kit (EU)					

*The replacement of the cartridge can be performed only if allowed by the law and/or regulations applicable in the country where the product is sold.

Flanged Internal Valve 4"



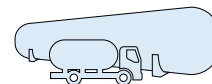
Cavagna flanged valves, equipped with a built-in excess flow valve to prevent uncontrolled product release, are perfect for mounting a pump or other similar piping connections. Mounting bolts weakened section, provided, allow the pump or piping to "shear" in the event of an accident, thereby leaving the valve intact.

**For more information see page 56*

LPG & Ammonia(NH₃) Bobtail & Transport Tanker Equipment

Internal Valves	PG. 54
Actuators	PG. 62
Gauges	PG. 65
Excess Flow Valves	PG. 66
Hose End Valves	PG. 71
Double Check Valves	PG. 73
Relief Valves	PG. 76
Wafer	PG. 77

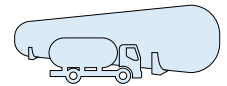




Threaded Internal Valves

These valves, designed as primary shut-offs to control product discharge in LP-Gas service, are predominantly used in the liquid and vapour openings of bobtail and other transport vehicles. All valves satisfy the requirements of NFPA 58 and can also be used in stationary storage tank applications. All Cavagna internal valves have a robust, one piece body design and an incorporated excess flow function. Each valve has a weak section that allows the pump or piping to “shear” in the event of an accident, thereby leaving the valve mechanism intact. Cavagna threaded valves are compact and can be operated either manually or remotely via cable or pneumatic control. Valves contain spring-loaded, PTFE packing providing excellent leakage protection and the standard disc material provided is Nitrile.





Threaded Internal Valves



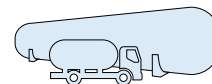
**100g Deceleration
Test passed**

Part Number		Material	Inlet Connection	Outlet Connection	Closing Flow GPM Propane		LPG Vapour Capacity (SCFH/Propane)		Closing Flow GPM Ammonia NH ₃ + LPG
					Half Coupling	Full Coupling	25 PSIG	100 PSIG	
One Way	Two ways								
6902900101	-----	steel	1-1/4" M NPT	1-1/4" F NPT	30	-----	5.800	9.100	27
6902900102	-----	steel	1-1/4" M NPT	1-1/4" F NPT	50	35	7.650	12.900	45
6902900103	-----	steel	1-1/4" M NPT	1-1/4" F NPT	80	65	10.950	18.800	72
6902900195	-----	steel	1-1/2" M NPT	1-1/2" F NPT	30	-----	5.800	9.100	27
6902900196	-----	steel	1-1/2" M NPT	1-1/2" F NPT	50	35	7.650	12.900	45
6902900197	-----	steel	1-1/2" M NPT	1-1/2" F NPT	80	65	10.950	18.800	72
6902900104	6902900130	steel	2" M NPT	2" F NPT	100	60	21.550	36.800	90
6902900105	6902900131	steel	2" M NPT	2" F NPT	150	90	33.600	57.200	135
6902900106	6902900132	steel	2" M NPT	2" F NPT	250	130	-----	-----	225
6902900107	6902900112	steel	3" M NPT	3" F NPT	150	100	28.600	48.700	135
6902900108	6902900113	steel	3" M NPT	3" F NPT	200	125	43.500	73.900	180
6902900109	6902900114	steel	3" M NPT	3" F NPT	250	165	51.500	87.600	225
6902900110	6902900115	steel	3" M NPT	3" F NPT	400	235	80.100	139.000	360
6902900111	6902900116	steel	3" M NPT	3" F NPT	500	325	-----	-----	450



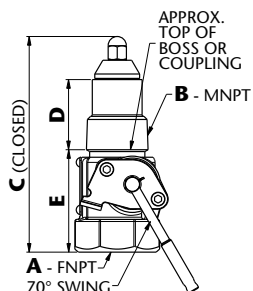
**100g Deceleration
Test passed**

Part Number		Material	Inlet Connection	Outlet Connection	Closing Flow GPM Propane		LPG Vapour Capacity (SCFH/Propane)	
					Half Coupling	Full Coupling	25 PSIG	100 PSIG
One Way	Two ways							
6902900150	-----	steel	1-1/4" M NPT	1-1/4" F NPT	30	-----	5.800	9.100
6902900151	-----	steel	1-1/4" M NPT	1-1/4" F NPT	50	35	7.650	12.900
6902900152	-----	steel	1-1/4" M NPT	1-1/4" F NPT	80	65	10.950	18.800
6902900147	-----	steel	1-1/2" M NPT	1-1/2" F NPT	30	-----	5.800	9.100
6902900148	-----	steel	1-1/2" M NPT	1-1/2" F NPT	50	35	7.650	12.900
6902900149	-----	steel	1-1/2" M NPT	1-1/2" F NPT	80	65	10.950	18.800
6902900153	6902900176	steel	2" M NPT	2" F NPT	100	60	21.550	36.800
6902900154	6902900177	steel	2" M NPT	2" F NPT	150	90	33.600	57.200
6902900155	6902900178	steel	2" M NPT	2" F NPT	250	130	-----	-----
6902900156	6902900161	steel	3" M NPT	3" F NPT	150	100	28.600	48.700
6902900157	6902900162	steel	3" M NPT	3" F NPT	200	125	43.500	73.900
6902900158	6902900163	steel	3" M NPT	3" F NPT	250	165	51.500	87.600
6902900159	6902900164	steel	3" M NPT	3" F NPT	400	235	80.100	139.000
6902900160	6902900165	steel	3" M NPT	3" F NPT	500	325	-----	-----

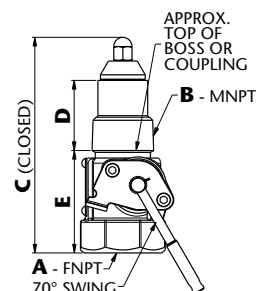


Threaded Internal Valves

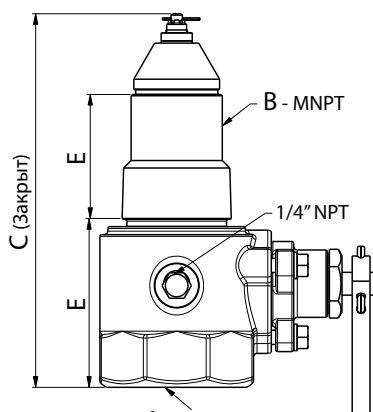
1-1/2" ONE WAY



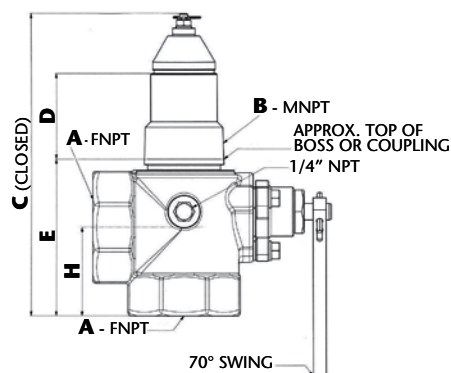
1-1/4" ONE WAY



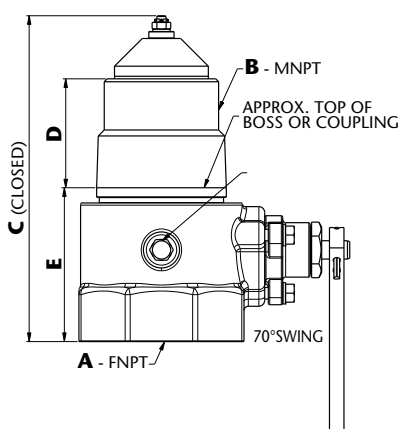
2" ONE WAY



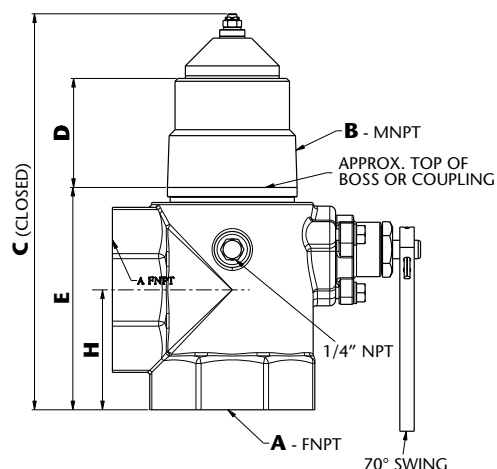
2" TWO WAY



3" ONE WAY



3" TWO WAY



Threaded Valves specification:

Pressure Rating: 400 PSI (27.58 bar) WOG

Temperature: Up to 150°F (66°C)

Body: Hot forged steel

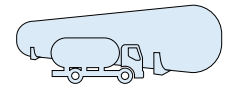
Packing: PTFE

Seat disk: Synthetic rubber

Stub, Shaft & Stem: stainless steel

DIMENSIONS					
A	B	C	D	E	H
1-1/4" NPT	1-1/4" NPT	5,90" (150 mm)	1,86" (47 mm)	2,88" (73 mm)	-----
1-1/2" NPT	1-1/2" NPT	5,90" (150 mm)	1,86" (47 mm)	2,88" (73 mm)	-----
2" NPT	2" NPT	8,26" (210 mm)	2,40" (61 mm)	4,05" (103 mm)	2,7" (68mm)
3" NPT	3" NPT	8,85" (225 mm) ONE WAY	2,56" (65 mm) ONE WAY AND TWO WAY	4,54" (115,3 mm) ONE WAY	3,26" (83 mm)
		10,82" (275 mm) TWO WAY			





Flanged Internal Valve 3"



Cavagna flanged valves, equipped with a built-in excess flow valve to prevent uncontrolled product release, are perfect for mounting a pump or other similar piping connections. Mounting bolts weakened section, provided, allow the pump or piping to "shear" in the event of an accident, thereby leaving the valve intact.

Cavagna flanged valves have a protection filter to avoid pump contamination from dirt and particles, easily removable when the valve is installed on the filling piping line. Cavagna flanged valves contain PTFE packing providing excellent leakage protection and the standard disc material provided is Nitrile, they can be operated manually or remotely via cable or pneumatic control.



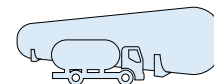
**100g Deceleration
Test passed**

Part Number		Material	Inlet Connection	Outlet Connection	Closing Flow GPM Propane	LPG Vapor Capacity (SCFH/Propane)		Closing Flow GPM Ammonia NH ₃ + LPG
Single	Double					25 PSIG Inlet	100 PSIG Inlet	
6902900117	6902900122	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	150	25.100	42.700	135
6902900118	6902900123	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	200	36.900	62.800	180
6902900119	6902900124	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	250	42.200	71.800	225
6902900120	6902900125	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	400	59.400	100.900	360
6902900121	6902900126	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	500	-----	-----	450



**100g Deceleration
Test passed**

Part Number		Material	Inlet Connection	Outlet Connection	Closing Flow GPM Propane	LPG Vapor Capacity (SCFH/Propane)	
Single	Double					25 PSIG Inlet	100 PSIG Inlet
6902900166	6902900171	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	150	25.100	42.700
6902900167	6902900172	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	200	36.900	62.800
6902900168	6902900173	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	250	42.200	71.800
6902900169	6902900174	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	400	59.400	100.900
6902900170	6902900175	steel	3"300lb ANSI RF Modified (4 7/8" dia bore)	3" 300 lb. ANSI RF	500	-----	-----



Flanged Internal Valve 4"



Cavagna flanged valves, equipped with a built-in excess flow valve to prevent uncontrolled product release, are perfect for mounting a pump or other similar piping connections. Mounting bolts weakened section, provided, allow the pump or piping to "shear" in the event of an accident, thereby leaving the valve intact. Cavagna flanged valves have a protection filter to avoid pump contamination from dirt and particles, easily removable when the valve is installed on the filling piping line. Cavagna flanged valves contain PTFE packing providing excellent leakage protection and the standard disc material provided is Nitrile, they can be operated manually or remotely via cable or pneumatic control.



LPG - NH₃

**100g Deceleration
Test passed**

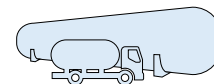
Part Number	Material	Inlet Connection	Outlet Connection	Closing Flow GPM Propane
6902900141	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	340
6902900142	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	440
6902900143	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	600
6902900144	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	800
6902900145	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	1.000



LPG

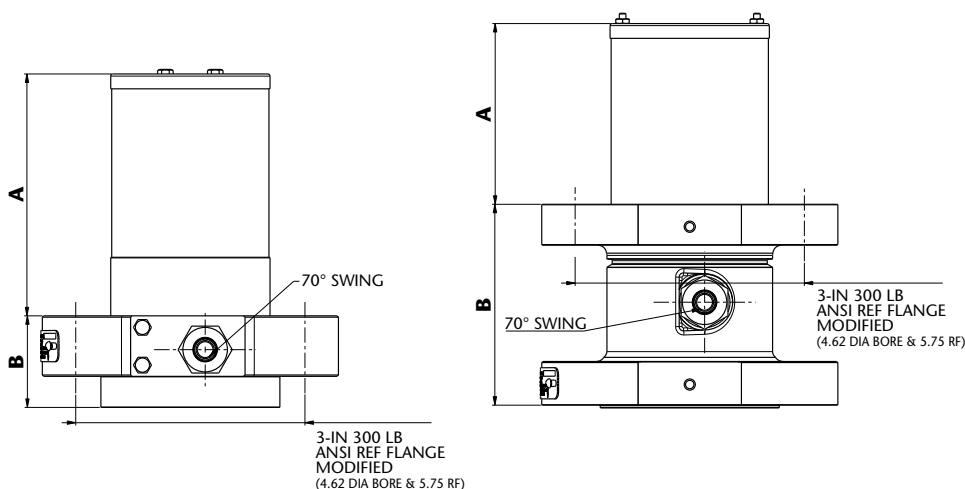
**100g Deceleration
Test passed**

Part Number	Material	Inlet Connection	Outlet Connection	Closing Flow GPM Propane
6902900181	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	340
6902900182	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	440
6902900183	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	600
6902900184	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	800
6902900185	steel	4" 300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	1.000



Flanged Internal Valve

3" Single/Double Flanged Internal Valve

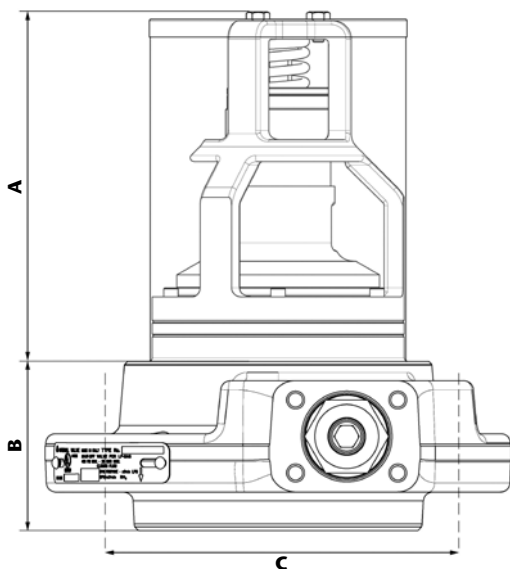


Flanged Valves specification:

Pressure Rating: 400 PSI (27.58 bar) WOG
Temperature: Up to 150°F (66°C)
Body: hot forged steel
Packing: PTFE
Seat disk: Synthetic rubber
Stub, Shaft & Stem: stainless steel
Gaskets: Non asbestos spiral wound graphite

Part Number		DIMENSIONS		DIMENSIONS	
Single	Double	A Single	B Single	A Double	B Double
6902900117	6902900122	6,75" (171 mm)	2,56" (65 mm)	5,33" (133 mm)	5,62" (143 mm)
6902900118	6902900123				
6902900119	6902900124				
6902900120	6902900125				
6902900121	6902900126				

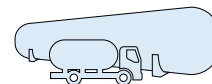
4" Single Flanged Internal Valve



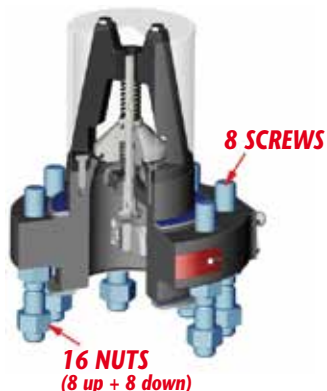
Flanged Valves specification:

Pressure Rating: 400 PSI (27.58 bar) WOG
Temperature: Up to 150°F (66°C)
Body: hot forged steel
Packing: PTFE
Seat disk: Synthetic rubber
Stub, Shaft & Stem: stainless steel
Gaskets: Non asbestos spiral wound graphite

DIMENSIONS		
A Single	B Single	C Single
7,55" (192 mm)	3,66" (93 mm)	7,88" (200 mm)

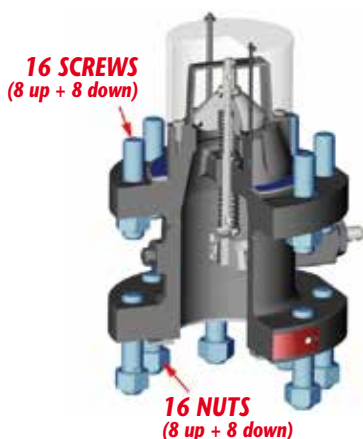
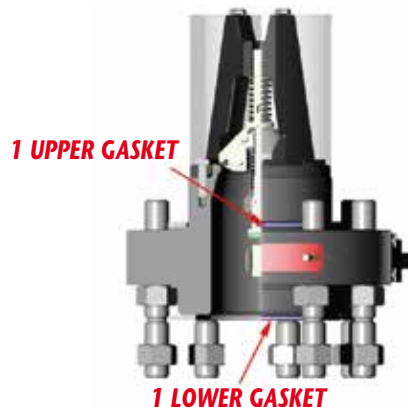


Threaded and Flanged Internal Valve Accessories



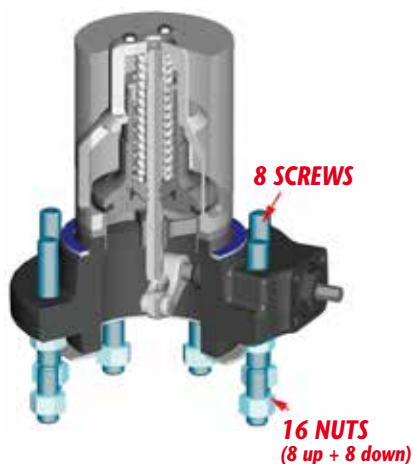
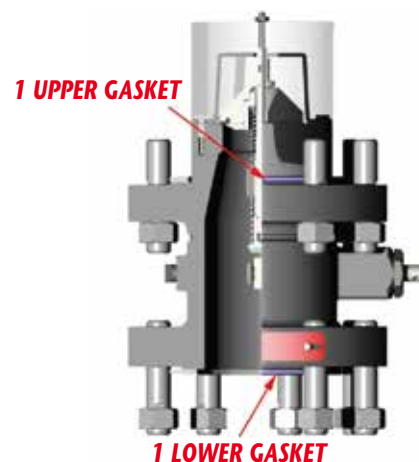
3" Single Flanged Valve

Product Code	Description
6803900020	3/4"-10 UNC studs kit (8 pcs)
6803900019	3/4"-10 UNC nuts kit (16 pcs)
0401105575	Upper spiral gasket (1 pcs)
0401105576	Lower spiral gasket (1 pcs)
6803900021	M20x2,5 studs kit (8 pcs)
6803900022	M20x2,5 nuts kit (16 pcs)



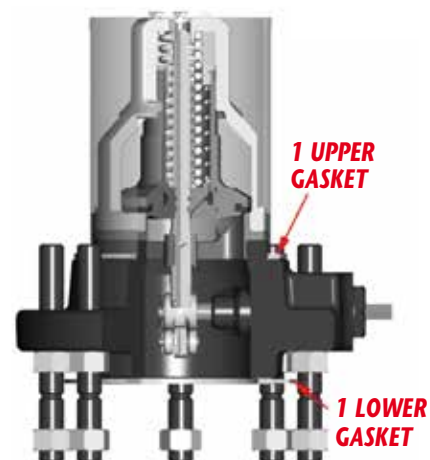
3" Double Flanged Valve

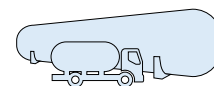
Product Code	Description
6803900018	3/4"-10 UNC studs kit (16 pcs)
6803900019	3/4"-10 UNC nuts kit (16 pcs)
0401105575	Upper spiral gasket (1 pcs)
0401105576	Lower spiral gasket (1 pcs)



4" Single Flanged Valve

Product Code	Description
6803900023 (UL Marked)	3/4"-10 UNC studs kit (8 pcs)
6803900019 (UL Marked)	3/4"-10 UNC nuts kit (16 pcs)
0401105595 (UL Marked)	Upper spiral gasket (1 pcs)
0401105596	Lower spiral gasket (1 pcs)
0401105692 (π Marked)	Upper spiral gasket (1 pcs)
6803900072 (π Marked)	M20x2,5 long studs kit (1 pcs)





Threaded and Flanged Internal Valve Accessories

Spiral Gaskets



Product Code	Description
0401105575	Upper Spiral Gasket 3" Flanged Valve (Single and Double)
0401105576	Lower Spiral Gasket 3" Flanged Valve (Single and Double)
0401105595	Upper Spiral Gasket 4" Single Flanged Valve
0401105596	Lower Spiral Gasket 4" Single Flanged Valve

Studs and Nuts



Product Code	Description
6803900018	3/4"-10 UNC studs kit (16 pcs)
6803900019	3/4"-10 UNC nuts kit (16 pcs)
6803900020	3/4"-10 UNC studs kit (8 pcs)
6803900021	M20x2,5 studs kit (8 pcs)
6803900022	M20x2,5 nuts kit (16 pcs)
6803900023	3/4"-10 UNC studs kit (8 pcs)
6803900072	M20x2,5 long studs kit (8 pcs)

Main Spindle Assembled Kit



Product Code	Description
6803900024	Dedicated for Internal Valve 1-1/4" and 1-1/2" - 1 pcs
6803900025	Dedicated for Internal Valve 2" (1 way and 2 ways) - 1 pcs
6803900026	Dedicated for Internal Valve 3" (1 way and 2 ways) - 1 pcs
6803900027	Dedicated for 3" Single Flanged Valve - 1 pcs
6803900028	Dedicated for 3" Double Flanged Valve - 1 pcs

Assembled Cone Kit



Product Code	Description
6803900029	Dedicated for Internal Valve 1-1/4" and 1-1/2" - 1 pcs
6803900030	Dedicated for Internal Valve 2" (1 way and 2 ways) - 1 pcs
6803900031	Dedicated for Internal Valve 3" (1 way and 2 ways) and 3" Flanged Valve (Single and Double) - 1 pcs

Assembled Opening System Kit



Product Code	Description
6803900032	Dedicated for Internal Valve 1-1/4" and 1-1/2" - 1 pcs
6803900033	Dedicated for Internal Valve 2" (1 way and 2 ways) - 1 pcs
6803900034	Dedicated for Internal Valve 3" (1 way and 2 ways) - 1 pcs
6803900035	Dedicated for 4" Single Flanged Valve - 1 pcs

FFKM soft sealings kit



Product Code	Description
6803900036	FFKM Kit for 2" Threaded Valve
6803900037	FFKM Kit for 3" Threaded Valve
6803900038	FFKM Kit for all 3" Flanged Valve
6803900039	FFKM kit for 4" Single Flanged Valve

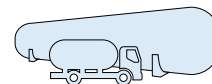
Complete soft sealings kit (all the O-Rings and gaskets)

Product Code	Description
6803900040	Dedicated for Internal Valve 1-1/4" and 1-1/2" - 1 pcs
6803900041	Dedicated for Internal Valve 2" (1 way and 2 ways) - 1 pcs
6803900042	Dedicated for Internal Valve 3" (1 way and 2 ways) - 1 pcs
6803900043	Dedicated for 3" Single and Double Flanged valve - 1 pcs
6803900045	Dedicated for 4" Single Flanged Valve - 1 pcs

Excess Flow Spring



Product Code	Description
6803900046	Dedicated for 30 GPM - Internal Valve 1-1/4" and 1-1/2"
6803900047	Dedicated for 50 GPM - Internal Valve 1-1/4" and 1-1/3"
6803900048	Dedicated for 80 GPM - Internal Valve 1-1/4" and 1-1/4"
6803900049	Dedicated for 100 GPM - Internal Valve 2"
6803900050	Dedicated for 150 GPM - Internal Valve 2"
6803900051	Dedicated for 250 GPM - Internal Valve 2"
6803900052	Dedicated for 150 GPM - Internal Valve 3" and 3" Flanged (Single and Double)
6803900053	Dedicated for 200 GPM - Internal Valve 3" and 3" Flanged (Single and Double)
6803900054	Dedicated for 250 GPM - Internal Valve 3" and 3" Flanged (Single and Double)
6803900055	Dedicated for 400 GPM - Internal Valve 3" and 3" Flanged (Single and Double)
6803900056	Dedicated for 500 GPM - Internal Valve 3" and 3" Flanged (Single and Double)
6803900057	Dedicated for 340 GPM - 4" Single Flanged Valve
6803900058	Dedicated for 440 GPM - 4" Single Flanged Valve
6803900059	Dedicated for 600 GPM - 4" Single Flanged Valve
6803900060	Dedicated for 800 GPM - 4" Single Flanged Valve
6803900061	Dedicated for 1000 GPM - 4" Single Flanged Valve



Rotary Cams Actuators



Features:

- The actuator is preassembled and ready to install.
- Compared to current devices which require adjustments the installment is quick and easy (3 screws and 1 split pin).
- The actuator can be fitted to the valve in four separate positions allowing optimization of space on the vehicle.
- Direct drive design does not apply side load to internal valve stem packing for maximum valve life.
- The actuator uses an internal cam mechanism, which guarantees higher performance optimizing the opening torque.
- Torque moment: The return torque moment relies only on the spring and is independent from the supply pressure.
- Immediate and automatic closing in absence of air (no need for additional rapid discharge accessories).
- OPEN/CLOSE indicator.
- Compact design and lightweight.
- Aluminum body, components in stainless steel and aluminum.
- Valve anchoring bracket made in stainless steel.
- The actuator is self-lubricating with PTFE carbon-graphite seals.
- The actuator guarantees complete opening of the valve and is equipped with limit switch.
- Operating media: compressed filtered air, not necessarily lubricated.
- 500.000 opening cycles guaranteed.

Working condition

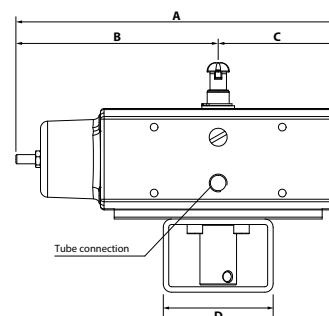
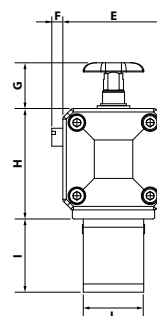
Temperature: from 0°C to +80°C; from -20°C to +80°C with dry air only. (Special versions: high temperature: -20°C +150°C; low temperature: -50°C +60°)

Air supply: 5,6 bar; maximum 8,4 bar.

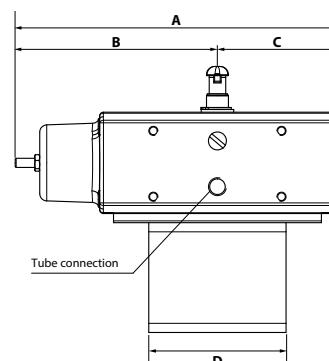
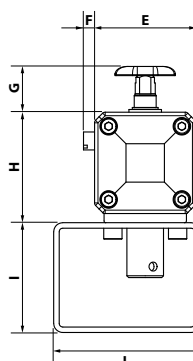
Operating media: compressed filtered air, not necessarily lubricated.

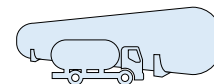
In case of lubricated air, either non detergent oil or NBR compatible oil, must be used.

Actuator 1-1/4" and 1-1/2"



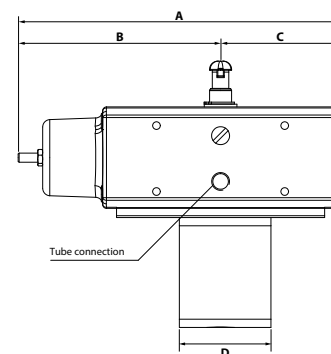
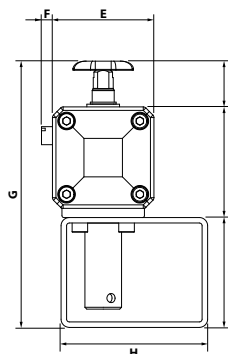
Actuator 2" and 3"



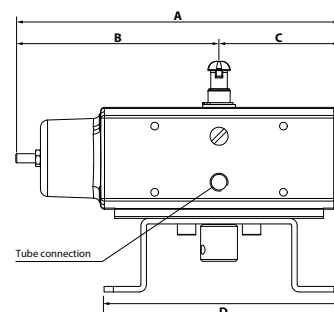
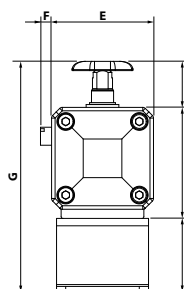


Rotary Cams Actuators

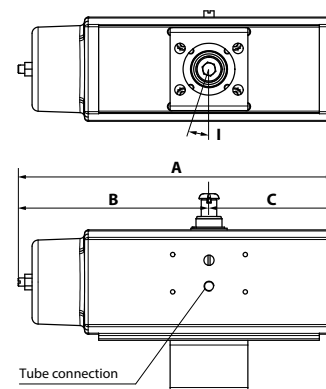
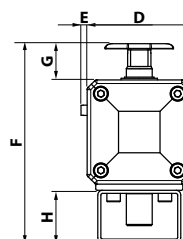
Actuator 3" SINGLE FLANGED



Actuator 3" DOUBLE FLANGED

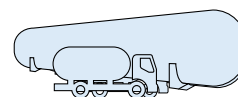


Actuator 4" SINGLE FLANGED



Rotary Cams Actuators Dimensions (mm)													
		A	B	C	D	E	F	G	H	I	L	M	Ø tube connection
3000900000	O-205 Actuator 1-1/4" and 1-1/2"	175,6	110,5	65,1	60	55,4	6	25	60,4	40	33	-	1/4"
3000900001	O-206 Actuator 2" and 3"	175,6	110,5	65,1	75	55,4	6	25	60,4	60	80	-	1/4"
3000900002	O-207 SF Actuator 3" Single Flanged	175,6	110,5	65,1	50	55,4	6	145,4	80	60	60,4	25	1/4"
3000900003	O-207 Actuator 3" Double Flanged	175,6	110,5	65,1	130	55,4	6	125,4	25	60,4	40	-	1/4"
3000900004	O-208 SF Actuator 4" Single Flanged	305	184,1	120,9	100,4	6	191,4	35	50	17,5°	-	-	1/4"
3000900014	O-205 Actuator 1-1/4" and 1-1/2" tube Ø6 mm	175,6	110,5	65,1	60	55,4	6	25	60,4	40	33	-	6 mm
3000900015	O-206 Actuator 2" and 3" tube Ø6 mm	175,6	110,5	65,1	75	55,4	6	25	60,4	60	80	-	6 mm
3000900016	O-207 SF Actuator 3" Single Flanged tube Ø6 mm	175,6	110,5	65,1	50	55,4	6	145,4	80	60	60,4	25	6 mm
3000900017	O-207 Actuator 3" Double Flanged tube Ø6 mm	175,6	110,5	65,1	130	55,4	6	125,4	25	60,4	40	-	6 mm
3000900018	O-208 SF Actuator 4" Single Flanged tube Ø6 mm	305	184,1	120,9	100,4	6	191,4	35	50	17,5°	-	-	6 mm
3000900019	O-205 Actuator 1-1/4" and 1-1/2" tube Ø8 mm	175,6	110,5	65,1	60	55,4	6	60,4	60,4	40	33	-	8 mm
3000900020	O-206 Actuator 2" and 3" tube Ø8 mm	175,6	110,5	65,1	75	55,4	6	60,4	60,4	60	80	-	8 mm
3000900021	O-207 SF Actuator 3" Single Flanged tube Ø8 mm	175,6	110,5	65,1	50	55,4	6	80	80	60	60,4	25	8 mm
3000900022	O-207 Actuator 3" Double Flanged tube Ø8 mm	175,6	110,5	65,1	130	55,4	6	25	25	60,4	40	-	8 mm
3000900023	O-208 SF Actuator 4" Single Flanged tube Ø8 mm	305	184,1	120,9	100,4	6	191,4	50	50	17,5°	-	-	8 mm

High Performance actuator available upon request



Latch/Remote Release Mechanisms

All Cavagna brand Internal Valves can be fitted with a manual Latch/remote release mechanism*. When the Internal valve's operating lever is manually moved to the open position, the lever can be latched in the open position. The lever can be release from a remote location by pulling on the cable attached to a pull ring, thus closing the internal valve. A built-in fusible element in the latch release melt if exposed to fire allowing the operating lever to return to the closed position. (for the temperature 212°F/100°C)



Cod. **1309500142**



Cod. **1309500143**



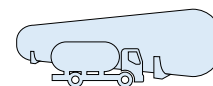
Cod. **1309500144**



Cod. **1309500147**

Cod.	Description
1309500142	Fuse latch threaded Internal valve 2" and 3"
1309500143	Fuse latch threaded Internal valve 1-1/4" and 1-1/2"
1309500144	Dual Latch/ remote release for Internal valve 1-1/4" and 1-1/2"
1309500147	Manual lever and release on for 4" with fusible elements

*except for Single and Double 3" Flanged Internal Valve



Float Gauges

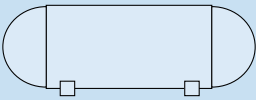
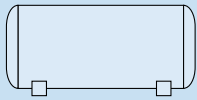


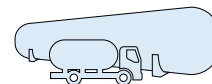
Application:

Measure liquid levels within horizontal DOT and Stationary ASME Tanks with fluid capacities above 2,300 gallons. Suitable for use in bobtail, transport, railcar and bulk storage applications.

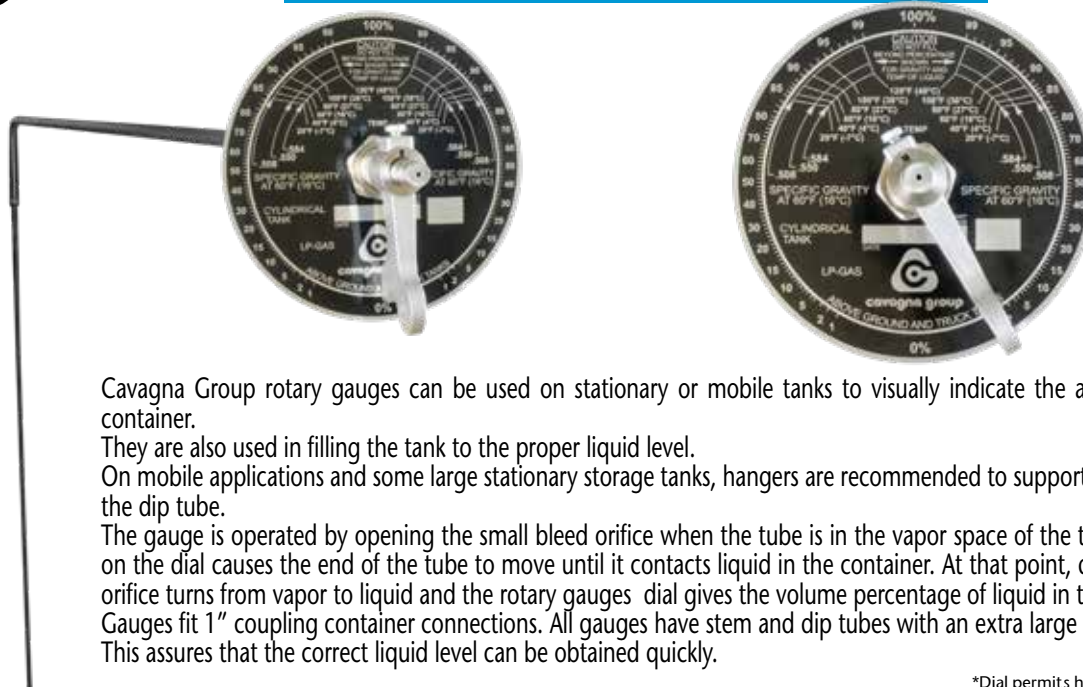
Features:

- All stainless steel construction for use with LPG & NH₃ applications
- Welded tube to coupling design for maximum strength and durability
- Integral spring loaded shock absorber for arduous over-the-road application
- Exclusive easy to read "glow in the dark" dial face perfect for low light situations Dial face 100% sealed and argon filled to prevent moisture build-up & fogging Factory set and precision tuned for superb accuracy Dial face and mounting hardware universal with other industry standard gauges Mounts to all standard 8 bolt tank flange adapters

Tank Size (internal diameter)	 Hemispherical Heads (Tank's side or end installation)		 Ellipsoidal Heads (Tank's side or end installation)	
	Model Number		Model Number	
	Ø4	Ø8	Ø4	Ø8
Ø 60" - 1525 mm	3001102765	3001102768	3001102818	3001102834
Ø 64" - 1625 mm	3001102766	3001102769	3001102819	3001102835
Ø 66" - 1675 mm	3001102740	3001102770	3001102820	3001102836
Ø 72" - 1830 mm	3001102741	3001102771	3001102821	3001102837
Ø 79" - 2000 mm	3001102748	3001102774	3001102822	3001102838
Ø 80" - 2030 mm	3001102749	3001102775	3001102823	3001102839
Ø 81 1/2" - 2070 mm	3001102742	3001102772	3001102824	3001102840
Ø 84" - 2135 mm	3001102750	3001102776	3001102825	3001102841
Ø 88" - 2235 mm	3001102751	3001102777	3001102826	3001102842
Ø 88 1/2" - 2250 mm	3001102744	3001102773	3001102827	3001102843
Ø 90" - 2285 mm	3001102752	3001102778	3001102828	3001102844
Ø 92 1/2" - 2350 mm	3001102720	3001102779	3001102829	3001102845
Ø 96" - 2450 mm	3001102721	3001102780	3001102830	3001102846
Ø 98" - 2500 mm	3001102723	3001102781	3001102831	3001102847
Ø 108" - 2755 mm	3001102788	3001102790	3001102832	3001102848
Ø 130" - 3315 mm	3001102789	3001102791	3001102833	3001102849



Rotary Gauge System



Cavagna Group rotary gauges can be used on stationary or mobile tanks to visually indicate the amount of LP-Gas in the container.

They are also used in filling the tank to the proper liquid level.

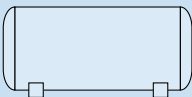
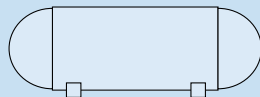
On mobile applications and some large stationary storage tanks, hangers are recommended to support the horizontal length of the dip tube.

The gauge is operated by opening the small bleed orifice when the tube is in the vapor space of the tank. Moving the pointer on the dial causes the end of the tube to move until it contacts liquid in the container. At that point, discharge from the bleed orifice turns from vapor to liquid and the rotary gauges dial gives the volume percentage of liquid in the tank.

Gauges fit 1" coupling container connections. All gauges have stem and dip tubes with an extra large inside diameter.

This assures that the correct liquid level can be obtained quickly.

*Dial permits higher filling level, per NFPA 58

LPG dial for all tank sizes	LPG dial for tank over 1200 US gallons *	NH ₃ /Ammonia dial for all tank sizes	For Container Inside Diameter			
						
			Ellipsoidal Heads		Hemispherical Heads	
			Side Mounted	End Mounted	Side Mounted	End Mounted
6802900227	6802900247	6802900242	30" - 45"	30" - 75"	30" - 45"	30" - 45"
6802900228	6802900248	6802900243	46" - 61"	76" - 108"	46" - 61"	46" - 61"
6802900229	6802900224	6802900244	62" - 79"	109" - 147"	62" - 79"	62" - 79"
6802900230	6802900225	6802900245	80" - 99"	-	80" - 99"	80" - 99"
6802900241	6802900226	6802900246	100" - 147"	-	100" - 147"	100" - 147"

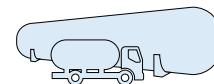


Excess Flow Valves for Liquid or Vapor withdrawal

Valves are designed to be mounted on the bottom of customer storage tanks for liquid service. They may also be mounted on the top for vapour service.

Part Number	Material	Inlet Connection	Outlet Connection	Wrench Hex Flats	Approximate Closing Flows
					Liquid (GPM Propane)
6901900036	Steel	1-1/4"	1-1/4"	1 7/8"	55
6901900037	Steel	1-1/4"	1-1/4"	1 7/8"	70





Excess Flow Valves for Liquid or Vapor

Valves are designed for Liquid or Vapor fill / withdrawal and for vapor equalization in containers or line applications. They are intended to close when the liquid or vapor passing through the hose or the piping system exceeds the prescribed flow rate. Valves are available in different sizes and body configurations. Once the flow exceeds the valve's setting, the valve closes and will remain closed until the system equalizes. Once the pressure on both sides of the poppet is equal, a built in equalizing passage automatically opens the valve.



6902900129



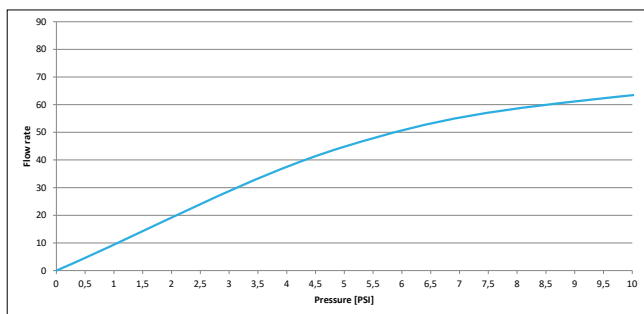
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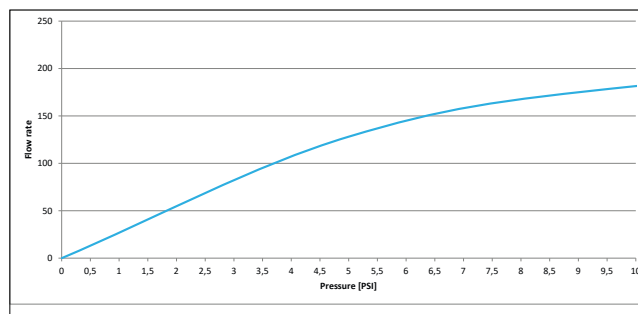
6902900202

Part Number	Material	Inlet	Outlet	Wrench Hex Flats	Length	Approximate Closing Flows			Approval
						Liquid (GPM Propane)	25 PSIG Inlet	100 PSIG Inlet	
6902900127	Steel	1 1/4"	1-1/4"	2"	~3"	30	5750	9800	UL CE Pi
6902900128	Steel	1 1/4"	1-1/4"	2"	~3"	40	7500	13330	CE UL
6902900129	Steel	1 1/4"	1-1/4"	2"	~3"	50	8800	15970	UL CE Pi
6902900201	Steel	3/4"	3/4"	1 3/8"	~2"	18	3700	6900	UL CE Pi
6902900202	Steel	2"	2"	3"	~4"	110	22100	37600	UL CE Pi

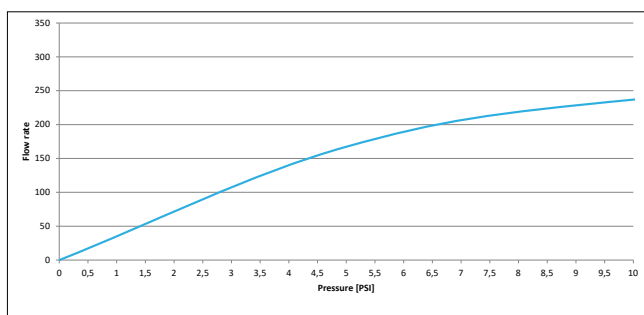
Performance



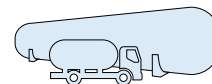
6902900127 - 128 - 129



6902900202



6902900201



Excess Flow Valve for Pressure Gauges



Designed for container use in pressure gauge installations to minimize excess gas discharge in the event the pressure gauge is sheared. A suitable shut-off valve should be installed between this valve and the pressure gauge to allow convenient gauge replacement.

Part Number	Material	Inlet Connection	Outlet Connection	Wrench Hex Flats	Length	Approximate Closing Flows		
						Liquid (GPM Propane)	25 PSIG Inlet	100 PSIG Inlet
6902900199	Brass	3/4"	1/4"	1 1/16"	1,63"	103 SCFH Air (UL)	60	110



Excess Flow Valves for Flange Mounting in Container Service

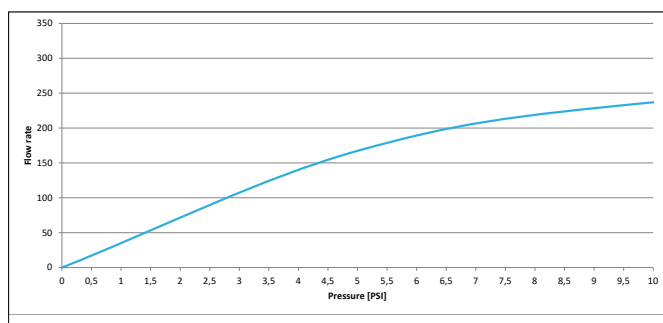


Designed for mounting in flanged tank connections with internal threads in the bottom of a container.

They may be used in filling, withdrawal or vapor equalizing application. They provide high flow capacity with low pressure drop to minimize pump inlet line cavitation. If a riser pipe to the vapor space is used with these excess flow valves, the minimum inside diameter of the riser pipe must be at least two times the valve thread size in order not to restrict flow to the side inlet ports. Flange mounted excess flow valves are readily accessible for servicing and completely enclosed and protected in event of fire. Because there is no direct connection between external piping and the valve, stresses imposed on piping will not affect the excess flow valve. Valves are compatible with both liquid and vapor.

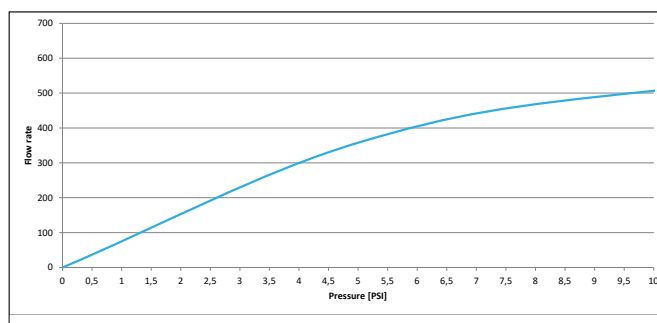


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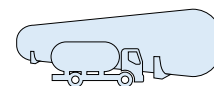
Performance

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Performance

Part Number	Material	Inlet Connection	Outlet Connection	Wrench Hex Flats	Length	Approximate Closing Flows		
						Liquid (GPM Propane)	25 PSIG Inlet	100 PSIG Inlet
6902900203	Steel	2"	2"	/	~6,5"	150	30500	52000
6902900204	Steel	3"	3"	/	~7"	250	51100	88700



Flanged Excess Flow Valves



Features:

- Galvanized Steel Body
- PN 40 Flanges
- Stainless steel Spring
- Stainless steel Stem

Other flanges rating on request.

Part Number	DN Ø
VEF 2	DN 20
VEF 4	DN 25
VEF 32	DN 32
VEF 34/1.0	DN 40
VEF 38/1.0	DN 50
VEF 42	DN 65
VEF 46	DN 80

Flanged Back Check valves



Features:

- Galvanized Steel Body
- PN 40 Flanges
- Stainless steel Spring
- Stainless steel Stem

Part Number	DN Ø
VNR 2	DN 20
VNR 3	DN 25
VNR 15	DN 32
VNR 17	DN 40
VNR 18/1.0	DN 50
VNR 19	DN 65
VNR 20	DN 80

Wafer Excess Flow Valves

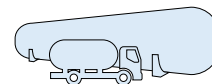
The VEF-W25 is a new excess flow valve useful to reduce costs and space of the installation.

Features:

- Design temperature: -40/+60 °C
- Connection: UNI PN40
- Max pressure: 25 bar
- Body material: A350 LF2
- Surface treatment: galvanized
- Stainless steel spring
- Stainless steel stem
- Closure of gas phase at: 180kg/h if 1,72 bar; 300 kg/h if 6,9 bar

Part Number	Description	DN
VEF-W25	Excess flow valve DN25 PN 40	25





Back Pressure Valves for Container or Line Applications



Valves are intended to prevent liquid discharge when the desired flow is directed into the vessel thereby allowing the flow in only one direction.

When coupled with the appropriate single check filler valve, the combination forms a double check filler valve suitable for use in filling of bulk storage tanks.

Part Number	Material	Inlet Connection	Outlet Connection	Wrench Hex Flats	Length	Propane Liquid Capacity at different Δ Pressure			Approval
						5 PSIG	10 PSIG	25 PSIG	
7100900051	Steel	3/4" F NPT	3/4" M NPT	1 3/8"	~2"	10,75	15,7	24,5	UL CE Pi
7100900050	Steel	1-1/4" F NPT	1-1/4" M NPT	2"	~2,6"	27,5	39,2	61,75	UL
7100900049	Steel	2" F NPT	2" M NPT	3"	~3,3"	121,5	171,5	270,5	UL CE Pi
7100900113	Steel	3" F NPT	3" M NPT	4"	~4 1/4"	290	410	650	UL

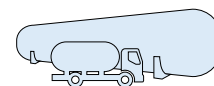
LPG Filling Head for Manually Operated Tank Filler Valves



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.

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

Part Number	Inlet connection	Outlet connection	Supply pressures
6882900057	3/4" NPT	1-3/4" x 6 ACME - 2g connects to Cavagna filler valves like 6602901043, 6602901122	The Filling Head is designed to operate within the normal LPG supply pressures. Liquid filling product: 1-15 bar.



Quick Acting Dispensing Valves



The Dispensing valves are designed to be used at the end of a filling hose for bobtail, nurse tank or dispensing system.

Features

- All stainless steel internal component
- Self-locking toggle handle prevents accidental operation
- Durable ductile iron valve body with automotive grade powder coat finish
- Toggle handle assembly rotate 360°
- Stainless steel factory installed vent valve
- 400 WOG

Part number	Inlet connection	Outlet connection
6802900250	3/4" NPT	3/4" NPT
6802900235	1" NPT	1" NPT

Hose End Valves



This Hose End Valve full-on flow with the added protection of a quick closing, self-locking handle to prevent accidental opening of the valve during transport. The valve body is made of stainless steel GX5CrNiMo19-11-2 according to EN 10213-4.

Features

- High durable sealing system of the manouvre group
- Stainless steel and aluminum component construction
- Molded and riveted on valve main seal
- Filling hose vents less than .50cc for minimal loss of product at disconnect
- Toggle handle assembly rotate 360°
- Self-locking toggle handle prevents accidental valve opening
- Stainless steel 1-3/4" female Acme, threaded into the handle
- 400 WOG

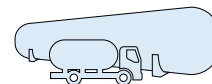
Part number	Inlet connection	Outlet connection	Handle Style	Handle Material
6802900234	1" NPT	1 3/4" ACME	Standard	Anodized Alluminium
6802900251	1" NPT	1 3/4" ACME	Curve	Anodized Alluminium

Hose End Adaptor



The Hose End Adaptor is designed to be used with 1"-11.5 (NPT) inlet connection.

Part number	Inlet connection	Outlet connection
1009500305	1"-11.5 (NTP)	1 3/4" ACME



Hose end Swivel Connectors

The hose end swivel connector allows the hose end valve to rotate 360° creating an easier connection to the tank filler valve while under pressure. It also promotes hose life by preventing twisting and kinking during reeling and unreeling from hose reel.

Hose End Swivel Connector Features

- All stainless steel construction for maximum durability and corrosion resistance
- Large bearing surface for increased strength and durability
- 360° rotation under maximum working pressure of 400 psig
- Our UL listed seal pack design allows for extremely long life with no maintenance required
- Straight through bore for unobstructed flow characteristics

Part Number
1009500291



Part number	Tank connection	Filler connection
1009500291	1"	1"

Hose End Elbow Adapter



The Hose End Elbow Adapter is designed to be used with 1"-11.5 (NPT) inlet connection.

Part number	Inlet connection	Outlet connection
1601105698	1"-11.5 NPT	1"-11.5 NPT

Hose End Fill Check Adapters

These adapters are intended to be attached to the LP-Gas delivery truck hose outlets. They feature minimal flow restriction which allows for fast delivery while providing an integral check valve to prevent further product loss if the tank fill valve fails to close. In the event the tank fill valve should fail, leave the fill adapter connected to the fill valve and disconnect the filler hose end valve. Then place the filler valve cap onto the fill adapter. The tank fill valve should be repaired immediately.

Hose End Fill Adapter Features

- Integral breakaway feature in the event of truck roll away leaving check intact on tank
- 1009500280 shortest overall height in the industry allowing adapters to fit inside tank hood
- 1009500281 has a floating internal seat design which allows check to swivel freely when installed on hose end valve

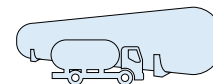


1009500280



1009500281

Part No.	Filler Valve F. Acme Connection	Hose End M. Acme Connection	Handle Style	Handle Material	Swivels
1009500280	1-3/4"	1-3/4"	Standard	Brass	No
1009500281	1-3/4"	1-3/4"	Standard	Brass	Yes



Multipurpose Valve for NH₃ and LPG containers



Designed for use as a manual valve or vapor equalizing valve on anhydrous ammonia applicator and nurse tanks. This valve incorporates an integral excess flow device. When product is required, the valve must completely open and backseated to allow the excess flow device to work properly.

Positive-acting excess flow valve opens for maximum flow at minimum pressure drop when filling -- regardless of the type of coupling in which the valve is installed. Excess flow seat is fully contained in the tank coupling for maximum protection in the event of external damage to the valve. Resilient seat disc assembly is fully contained on three sides for bubble-tight shut-off and long service life. "C"-ring spring-loaded stem seal design requires no repacking or field adjustment. Specially machined break-away groove beneath ACME threads will shear-off with excessive pull on the hose and leave the valve body intact. Plugged 1/4"-18 NPT boss accommodates vent valve or hydrostatic relief valve.

Part number	Container connection	Filling connection	Approx. excess flow Closing flows Liquid phase (GPM)		Approx. excess flow Closing flows Vapour phase (SCFH)		Vapour connection
			LPG	NH ₃	LPG	NH ₃	
6704901053	1 1/4-11.5 NPT	1 3/4-6 ACME-2G	49	44	15350	24000	n/a
6704901073	1 1/4-11.5 NPT	1" 11.5 NPT	55	49,5	n/a	n/a	1"-11.5 NPT



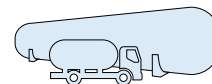
Double Check Filler Valve for Delivery Truck Tanks and Large Storage Containers



Designed to provide fast filling of bobtails, transports and large bulk storage tanks.

- Double back check provides added system protection.
- Upper filler valve assembly can be easily replaced without evacuating the container.
- Both checks are spring actuated for quick, precise closure when flow into the valve stops or reverses.
- 6602901356 - Filler valve can be ordered separately

Part number	ACME Hose connection	Container connection	Wrench Hex Flats	Effective Length	Propane Liquid Capacity at Various Differential Pressures (GPM)				
					5 PSIG	10 PSIG	25 PSIG	50 PSIG	75 PSIG
6602901336	3/4"	3"	4"	6 1/2"	150	210	330	470	470



Flanged Full Internal Relief Valves

Application:

Designed for use in mobile LPG & NH₃ containers as a primary pressure relief valve for bobtail and transport trailer installations. All working components are internal to the container connection preventing damage to the valve should a roll-over incident occur. Our unique design incorporates a standard 3" - 300LB. raised face flange connection to assure a 100% leak free connection for rugged over the road applications. This eliminates problems associated with NPT threaded connections and/or tank coupling wear providing maximum tank and relief valve service life.

Features:

- Durable single piece stainless steel body construction.
- All stainless steel internal components for maximum corrosion resistance.
- Available with Nitrile.
- Large seating surface for superior seal performance & reliability.
- Available with 250 & 265 PSI set pressures.

Part Number	STD / PSIG	Container Connection	Installation Hex	Service		Seat Material
				LPG	NH ₃	
6602901325	250	3" 300 LB Flange	2-1/2"	Yes	Yes	Nitrile
6602901326	265	3" 300 LB Flange	2-1/2"	Yes	Yes	Nitrile



Full Internal Relief Valves

Application:

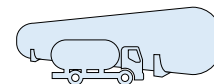
Designed for use in mobile LPG & NH₃ containers as a primary pressure relief valve for bobtail and transport trailer installations. All working components are internal to the container connection preventing damage to the valve should a roll-over incident occur.

Features:

- Durable stainless steel body construction.
- All stainless steel internal components for maximum corrosion resistance.
- Available with Nitrile valve seals.
- Large seating surface for superior seal performance & reliability.
- 3.1 and 3.2 certificates area available.



Part Number	STD / PSIG	Container Connection	Installation Hex	UL		CE/π (at 17,24 bar)	Service		Seat Material	Wrench (optional)
							LPG	NH ₃		
6602901402	250	2" NPT	1-17/32"	not applicable	not applicable	114,7 m ³ /min	Yes	Yes	Nitrile	3101100033
6602901300	265	2" NPT	1-17/32"	4164 SCFM air	1965 dm ³ /s	not applicable	No	Yes	Nitrile	
6602901403	250	3" NPT	2-9/16"	not applicable	not applicable	338,3 m ³ /min	Yes	Yes	Nitrile	3101100034
6602901301	265	3" NPT	2-9/16"	12705 SCFM air	5996 dm ³ /s	not applicable	No	Yes	Nitrile	
6602901407	362(25bar)	3" NPT	2-9/16"	not applicable	not applicable	451 m ³ /min	Yes	No	Nitrile	3101100034
6602901405	362(25bar)	2" NPT	1-17/32"	not applicable	not applicable	168 m ³ /min	Yes	No	Nitrile	3101100033
6602901295	250	2" NPT	1-17/32"	4049 SCFM air	1911 dm ³ /s	114,7 m ³ /min	Yes	Yes	Nitrile	3101100033
6602901296	250	3" NPT	2-9/16"	11948 SCFM air	5639 dm ³ /s	338,3 m ³ /min	Yes	Yes	Nitrile	3101100034



ACME Adapters



1009500248



1009500247

Part No.	INLET	OUTLET (M.NPT)
1009500246	1-3/4" M. Acme	1-1/4"
1009500248	1-3/4" M. Acme	3/4"
1009500249	1-3/4" M. Acme	1"
1009500263	3-1/4" M. Acme	3"
1009500264	3-1/4" M. Acme	2"
1009500247	1-3/4" M. Acme	1-3/4" M. Acme

Filler and Vapor



1009500257



1009500253

Part No.	INLET	OUTLET (M.NPT)
1009500251	1-3/4" F. Acme	3/4" M.NPT
1009500252	1-3/4" F. Acme	1" M.NPT
1009500253	1-3/4" F. Acme	1/2" M.NPT
1009500257	2-1/4" F. Acme	1-1/4"

ACME Cap



1009500254



1009500258



1009500262

Part No.	F. Acme (cap)
1009500254	1-3/4" F. Acme Cap Plug with Knob
1009500258	2-1/4" F. Acme Cap Plug with Knob
1009500262	3-1/4" F. Acme Cap Plug with Knob



1009500277



1009500278



1009500279

Part No.	F. Acme (cap)
1009500277	1-3/4" F. Acme Cap Plug with Knob and metallic cable
1009500278	2-1/4" F. Acme Cap Plug with Knob and metallic cable
1009500279	3-1/4" F. Acme Cap Plug with Knob and metallic cable

ACME Adapters

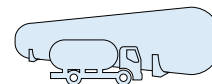


1009500256



1009500259

Part No.	M. Acme	F.NPT	M.NPT
1009500255	1-1/4"	1/4"	1/2"
1009500256	1-1/4"	3/8"	3/4"
1009500259	2-1/4"	1"	1-1/2"
1009500260	2-1/4"	1-1/4"	2"
1009500261	2-1/4"	1-1/2"	2"



π

External Pressure Relief Valves



6602901139

Pressure relief valve for small containers and on-line pipe installations.

Setting point: 17,24 bar.



6602901280

Pressure relief valve for small containers and on-line pipe installations.

Setting point: 17,24 bar.



6602901299

Pressure relief valve for small containers and on-line pipe installations.

Setting point: 17,24 bar.

Designed for small containers and online pipe installation, to protect piping and shutoff valves from over pressure situations where LPG has the potential to be trapped. These relief valves provide pressure relief at or in excess of the stated pressure setting, protecting against line or plumbing system failures.

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%	Approval	PRV Orifice (mm)
			Taper			CAPACITY Nm ³ /min. (If not specified otherwise)		
6602901139	1/4-18 NPT	22	x	-	17,24 (250 PSIG)	18,41 (at 120%O.P. SCFM-AIR)	UL	19,00
6602901280	1/4-18 NPT	22	x	-	17,24 (250 PSIG)	8.1 m ³ /min - %120	CE / π	-
6602901299	1/2-14 NPT	22	x	-	17,24 (250 PSIG)	8.1 m ³ /min - %120	CE	-



Hydrostatic Pressure Relief Valves

Designed to protect piping and shutoff valves from over pressure situations where liquid LP-Gas or has the potential to be trapped. These relief valves provide pressure relief at or in excess of the stated pressure setting, protecting against line or plumbing system failures.



Part Number	Bottom Male Connection	Wrench grip hexagon (mm)	Thread type	PRV - Start to Discharge Setting (PSIG)	Approval	PRV Orifice (mm)
6602901311	1/4-18 NPT	14	X	440	UL	3,2

Hydrostatic Relief Valve Features

- Compact design to fit any application
- Non-adjustable, tamper resistant design
- Specially designed internal components to increase flow at discharge



VS3818VPED4	Pressure Relief Valve 18 bar ø 3/8"
VS3803VPED4	Pressure Relief Valve 3 bar ø 3/8"
VS1418VPED4	Pressure Relief Valve 18 bar ø 1/4"
VS1218VPED4	Pressure Relief Valve 18 bar ø 1/2"
VS1203VPED4	Pressure Relief Valve 3 bar ø 1/2"

Fixed Liquid Level Gauges



66.1072

66.0.290.1072

Special DT length available. An optional instruction plate may be ordered for use with these valves. These valves incorporate a No. 54 or 72 drill size orifice as noted. Captive screw.



20.1157

20.0.110.1157

Fixed liquid level gauge, available in drill #54 or #72 (complying with the strictest California Rule 1177). Several sizes of DT available, and optional stop filling warning disc 20.1157.

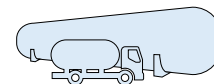


66.1161

66.0.290.1161

Remote outgauge. Captive screw.

Part Number	Container Connection	Outlet Connection	DT Length	Bleed Orifice
66.0.290.1376	1/4" M NPT	-	12"	54 Ø
66.0.290.1072		-		72 Ø
66.0.290.1368		-	5.4"	54 Ø
66.0.290.1116		-		72 Ø
66.0.290.1369		-	6.6"	54 Ø
66.0.290.1117		-		72 Ø
66.0.290.1370		-	3.8"	54 Ø
66.0.290.1118		-		72 Ø
66.0.290.1371		-	4.1"	54 Ø
66.0.290.1119		-		72 Ø
66.0.290.1372		-	5.6"	54 Ø
66.0.290.1120		-		72 Ø
66.0.290.1373		-	6.9"	54 Ø
66.0.290.1121		-		72 Ø
66.0.290.1374		-	Without	54 Ø
66.0.290.1204		-		72 Ø
66.0.290.1375	1/4" NPTF	-	5.2"	54 Ø
66.0.290.1125		-		72 Ø
66.0.290.1377		1/4" SAE Flare	Without	54 Ø
66.0.290.1161				72 Ø



Carbon Steel Wafer

STANDARD FEATURES

- No protruding floating ball
- Soft-seat seal (TFM 1600)
- Standard for connecting flanges: EN 1092-1 ed. 2008; ANSI B16.5
- Operating temperature: from -10°C to +200°C (see temperature pressure diagram)
- Operating pressure: PN16-40; ANSI 150-300
- Intercepted fluid: air, water, gas, petroleum and petrochemical products.
- Antistatic device
- Stem seal: TFM 1600 V-pack
- Additional seal on stem with FKM O-ring
- Anti Blow-out stem
- Actuator connection as per standard ISO 5211
- Closing angle >7°
- Superficial treatment: blueing

SPECIAL FEATURES ON REQUEST

- LF2 carbon steel for low temperature execution (-40 °C)
- For other flange types please contact our sales department
- Heating jacket
- Sealing in: PTFE reinforced with glass (RPTFE), PTFE reinforced with carbon-graphite (CTFE). For other types of materials please contact our sales department
- Cavity filler seat in PTFE
- Mono-directional version with pressure-compensating hole in the ball
- Stainless steel lever
- For special versions in materials different from the standard (body, ball, stem), please contact our sales department.
- Stainless steel Stem nuts and springs
- Superficial treatment: white zinc coating, epoxy coating
- For other coating please contact our sales department

CERTIFICATIONS

- In compliance with European Directive 97/23 EC PED
- In compliance with ATEX 94/9/CE Directive (on request)
- Fugitive Emission UNI EN ISO 15848 (2006)
- TA-LUFT VDI 2440 (2000)
- FIRE SAFE DESIGN: certification on process

ENGINEERING STANDARDS EMPLOYED

- Body thickness in compliance with: ASME B16.34, ASME VIII div.1, EN 12516.
- Materials and rating in compliance with ASME B16.34 for
- ANSI valves and EN 12516 for PN valves



Stainless Steel Wafer

STANDARD FEATURES

- No protruding floating ball
- Soft-seat seal (TFM 1600)
- Standard for connecting flanges: EN 1092-1 ed. 2008; ANSI B16.5
- Operating temperature: from -40°C to +200°C (see temperature pressure diagram)
- Operating pressure: PN16-40 - ANSI 150-300
- Intercepted fluid: air, water, gas, petroleum and petrochemical products, aggressive fluids
- Antistatic device
- Stem seal: TFM 1600 V-pack
- Additional seal on stem with FKM O-ring
- Anti Blow-out stem
- Actuator connection as per standard ISO 5211
- Closing angle >7°

SPECIAL FEATURES ON REQUEST

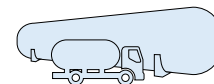
- For other flange types please contact our sales department
- Heating jacket
- Sealing in: PTFE reinforced with glass (RPTFE), PTFE reinforced with carbon-graphite (CTFE). For other types of materials please contact our sales department
- PTFE cavity filler seat
- Mono-directional version with pressure-compensating hole in the ball
- Stainless steel lever
- Stainless steel Stem nuts and springs
- For special versions in materials different from the standard (body, ball, stem), please contact our sales department.

CERTIFICATIONS

- In compliance with European Directive 97/23 EC PED
- In compliance with ATEX 94/9/CE Directive (on request)
- Fugitive Emission UNI EN ISO 15848 (2006)
- TA-LUFT VDI 2440 (2000)
- FIRE SAFE DESIGN: certification on process

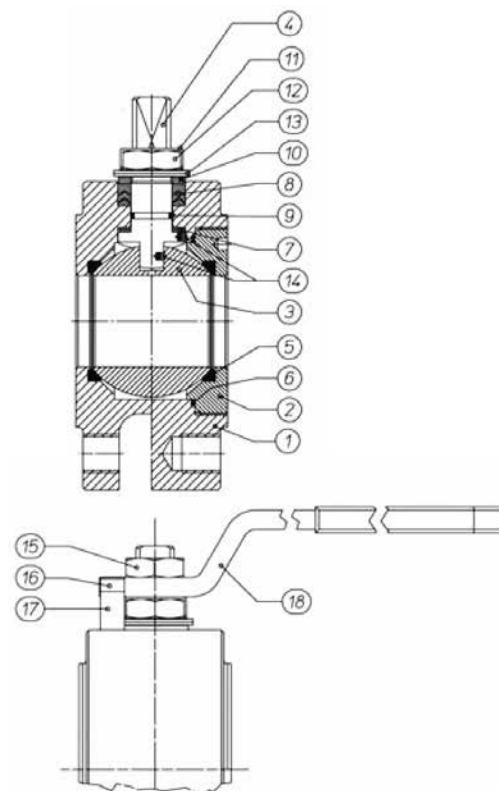
ENGINEERING STANDARDS EMPLOYED

- Body thickness in compliance with: ASME B16.34, ASME VIII div.1, EN 12516.
- Materials and rating in compliance with ASME B16.34 for
- ANSI valves and EN 12516 for PN valves



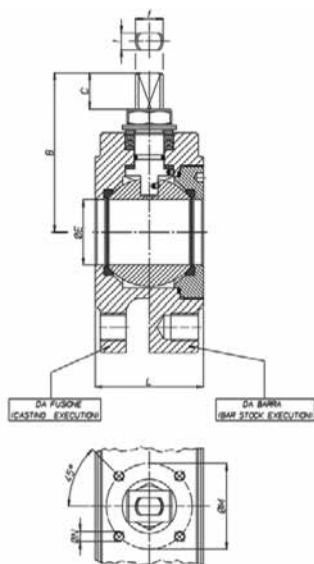
Wafer Series Construction Details

			Body Stainless Steel	Body Carbon Steel
MATERIAL TABLE			V480 / V481	V580 / V581
1	Body	up to DN 40	ASTM A182 F316 / A479 TP.316 (x) (1.4401 / x5CrNiMo17-12-2)	ASTM A105 (*)
		over DN 40	ASTM A351 CF8M (1.4408 / Gx5CrNiMo19-12-2)	
2	Ring nut	up to DN 50	ASTM A182 F316 / A479 TP.316 (1.4401 / x5CrNiMo17-12-2)	ASTM A105 (*)
		over DN 50	ASTM A351 CF8M (1.4408 / Gx5CrNiMo19-12-2)	
3	Ball		ASTM A351 CF8M (1.4408 / Gx5CrNiMo19-12-2)	ASTM A351 CF8(**) (1.4308 / Gx5CrNiMo19-10)
4	Stem		ASTM A182 F316 / A479 TP.316 (1.4401 / x5CrNiMo17-12-2)	ASTM A182 F6A / A479 TP.410 (***) (1.4006 / X12Cr13)
5	Seats		TFM 1600	
6	Ring nut gasket		TFM 1600	
7	Bottom sealing		TFM 1600	
8	Chevron rings		TFM 1600	
9	Stem o'ring		FKM	
10	Gland nut ring		ASTM A182 F304 / A479 TP.304 (1.4301 / X5CrNi18-10)	Carbon Steel ZINCATO-galvanized (x)
11	Nut holder		AISI 304	
12	Stem nut (x)		UNI 3740-1 6S ZINCATO-galvanized (x)	
13	Spring washer (xx)		50CrV4 ZINCATO - galvanized (xx)	
14	Antistatic device		ASTM A182 F316 / A479 TP.316	
15	Lock nut		UNI 3740-1 6S ZINCATO-galvanized	
16	Holder screw		A2 UNI EN ISO 3506-1	
17	Holder		Carbon Steel ZINCATO-galvanized	
18	Lever		Fe 37 ZINCATO galvanized	



AVAILABLE ON REQUEST:

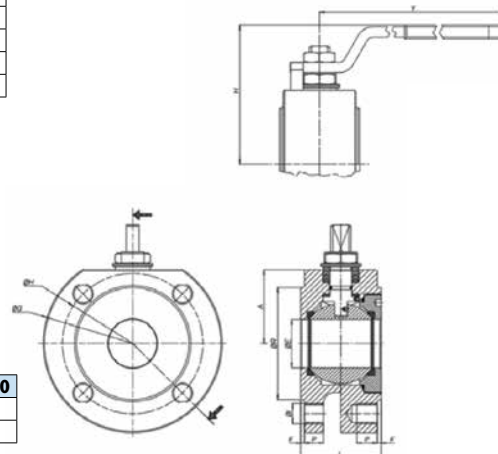
(*) A350LF2 (**) A351 CF8M (***) 316 S.S. (x) 304 s.s. (xx) 301 s.s.

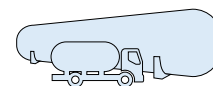


SIZE	ØE	L	B	C	ATT.ISO	ØM	ØN	F/T
DN15	13	36	52	10	F03	36	M5	10/6
DN20	19	39	55	10	F03	36	M5	10/6
DN25	25	43	68	15	F04	42	M5	12/8
DN32	32	51 o 54	73	15	F04	42	M5	12/8
DN40	38	63	93	21	F05	50	M6	16/10
DN50	51	83	102	21	F05	50	M6	16/10
DN65	64	107	130,5	28	F07	70	M8	22/14
DN80	76	120	137,5	28	F07	70	M8	22/14
DN100	95	152	166	35	F10	102	M10	30/18

ALL VALVES HAVE NO PROTRUDING BALL EXCEPT DN32 (FACE TO FACE 51 mm)

	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
H	70	73	86	91	108	117	142	149	191
Y	140	140	150	150	275	275	350	350	450





Wafer Series Construction Details

Wafer

BARE SHAFT VALVE CODE (V _ _)
LEVER OPERATED VALVE CODE (L _ _)

	Body Stainless steel	Body Carbon steel	SIZE	PN	A	ØG	ØR	F	ØH	N°FORI	ØI	P	KG.	L
BAR STOCK EXECUTION	L/V480B0604	L/V580A0604	DN15	PN16-40	32	90	45	1	65	4	M12	14	1,4	36
	L/V480BC604	L/V580AC604	DN15	ANSI 150	32	90	45	1	60,5	4	1/2"UNC	14	1,4	36
	L/V481BC604	L/V581C0604	DN15	ANSI 300	34	90	45	1	66,7	4	1/2"UNC	14	1,4	36
	L/V480B0605	L/V580A0605	DN20	PN16-40	35	100	58	2	75	4	M12	14	1,8	39
	L/V480BC605	L/V580AC605	DN20	ANSI 150	35	100	52	1,6	69,8	4	1/2"UNC	14	1,8	39
	L/V481BC605	L/V581AC605	DN20	ANSI 300	39	110	52	1,6	82,5	4	5/8"UNC	14	2,1	39
	L/V480B0606	L/V580A0606	DN25	PN16-40	42	110	68	2	85	4	M12	16	2,5	43
	L/V480BC606	L/V580AC606	DN25	ANSI 150	42	110	60	1,6	79,4	4	1/2"UNC	16	2,5	43
	L/V481BC606	L/V581AC606	DN25	ANSI 300	45	120	60	1,6	88,9	4	5/8"UNC	16	2,9	43
	L/V480B0607	L/V580A0607	DN32	PN16-40	47	130	78	2	100	4	M16	20	4,0	51
	L/V480B0607S	L/V580A0607S	DN32	PN16-40	47	130	78	2	100	4	M16	20	4,3	54
	L/V480BC607	L/V580AC607	DN32	ANSI 150	47	118	72	1,6	88,9	4	1/2"UNC	20	3,8	54
	L/V481BC607	L/V581AC607	DN32	ANSI 300	47	130	72	1,6	98,4	4	5/8"UNC	20	4,3	54
	L/V480B0608	L/V580A0608	DN40	PN16-40	58	140	88	3	110	4	M16	20	5,9	63
	L/V480BC608	L/V580AC608	DN40	ANSI 150	58	127	82	1,6	98,4	4	1/2"UNC	20	5,1	63
	L/V481BC608	L/V581AC608	DN40	ANSI 300	58	150	82	1,6	114,3	4	3/4"UNC	25	7,0	63
	L/V480B0609	L/V580A0609	DN50	PN16-40	67	150	102	3	125	4	M16	20	8,9	83
	L/V480BC609	L/V580AC609	DN50	ANSI 150	67	150	102	1,6	120,6	4	5/8"UNC	20	9,1	83
	L/V481BC609	L/V581AC609	DN50	ANSI 300	67	160	102	1,6	127,0	8	5/8"UNC	20	10,4	83
	L/V480B0610	L/V580A0610	DN65	PN16	83	178	122	3	145	4	M16	20	16,2	107
	L/V481B0610	L/V581A0610	DN65	PN25-40	83	178	122	3	145	8	M16	20	16,1	107
	L/V480BC610	L/V580AC610	DN65	ANSI 150	83	178	122	1,6	139,7	4	5/8"UNC	20	16,4	107
	L/V481BC610	L/V581AC610	DN65	ANSI 300	89	190	122	1,6	149,2	8	3/4"UNC	25	18,6	107
	L/V480B0611	L/V580A0611	DN80	PN16-40	90	190	138	3	160	8	M16	20	20,0	120
	L/V480BC611	L/V580AC611	DN80	ANSI 150	90	190	135	1,6	152,5	4	5/8"UNC	20	20,4	120
	L/V481BC611	L/V581AC611	DN80	ANSI 300	96	205	138	1,6	168,3	8	3/4"UNC	25	24,0	120
	L/V480B0612	L/V580A0612	DN100	PN16	101	220	160	3	180	8	M16	20	34,0	152
	L/V481B0612	L/V581A0612	DN100	PN25-40	105	235	162	3	190	8	M20	25	39,1	152
	L/V480BC612	L/V580AC612	DN100	ANSI 150	101	220	160	1,6	190,5	8	5/8"UNC	20	34,0	152
	L/V481BC612	L/V581AC612	DN100	ANSI 300	115	250	160	1,6	200,0	8	3/4"UNC	25	46,4	152
CASTED	L/V480E0609		DN50	PN16	67	165	102	3	125	4	M16	15	6,3	83
	L/V480EC609		DN50	ANSI 150	67	150	102	1,6	120,6	4	5/8"UNC	17,4	5,9	83
	L/V481E0610		DN65	PN16	83	185	122	3	145	4	M16	15	9,9	107
	L/V480EC610		DN65	ANSI 150	83	178	122	1,6	139,7	4	5/8"UNC	20,6	10,6	107
	L/V480E0611		DN80	PN16	90	200	138	3	160	8	M16	17	12,6	120
	L/V480EC611		DN80	ANSI 150	90	190	135	1,6	152,5	4	5/8"UNC	22,2	13,1	120
	L/V480E0612		DN100	PN16	101	220	160	3	180	8	M16	17	20,0	152
	L/V480EC612		DN100	ANSI 150	101	228	160	1,6	190,5	8	5/8"UNC	22,2	21,5	152



CAVAGNA group

Wherever gas is used, we are there



Quality Management System to ISO 9001:2015 standard

Quality: our prerogative!

Registration to ISO 9001 standards is for us not only a certificate. Our policy is to achieve the outmost customer satisfaction, through the effectiveness of our Quality Management Systems and through continuous improvement to suit the dynamic Customers' expectations.

Personnel involvement, training and motivation are few of the elements that we rely on to achieve quality from each person and from each process.

Quality: our "must"

WARRANTY AND LIABILITY CONDITIONS (Not Valid for USA and Canada)

1 - Compliance of the brand new products

The original seller of the brand new product (hereinafter referred to as Product) hereby warrants that the Product corresponds in quantity, quality, and type as specified in the sales contract (or, if missing, in the order's confirmation) for the Product and that the Product is without defects that could render it unfit for the use to which it is intended. The original seller of the Product is identified on the invoice for the Product and is referred to herein as the "Warrantor."

2 - Extent of the guarantee

The warranty is limited only to defects in a) the design of the Product, b) the materials in the Product or c) the construction of the Product, which can be attributed to the Warrantor. The warranty does not apply in the case where the buyer is unable to prove correct storage and maintenance of the brand new products, or in the case the buyer has modified the Product without the prior written agreement of the Warrantor. Furthermore, the Warrantor is not liable for defects in the brand new product due to the normal wear and deterioration of those parts of the Product, which by their nature, are subject to rapid and continuous wear and tear (e.g.: lining, etc.).

In general, in no case shall the Warrantor be liable for defects in compliance that arise after the transfer of risk or possession of the Product to the buyer has taken place.

The warranty is valid only when the brand new products are installed, used and maintained in conformity with the warnings and instructions provided by the Warrantor in the instruction manual or other Product literature and in conformity with the applicable laws, standards or regulations existing in the location where the brand new products are used or, in the absence of any applicable laws, standards or regulations, in conformity with the best practices in the applicable industry or trade.

3 - Claims

The buyer is required to check the compliance of the brand new Products and confirm the absence of flaws. The buyer should report any flaws or defects in brand new Products, in the following ways and time. Failure to properly and timely report a defect will void the warranty:

- Claims for shortage or damages that could have been apparent from an examination of the exterior of the Product's packaging contents must be reported as soon as the brand new Products arrive at their place of destination or, in any event, no more than 5 days after that time.
- Claims relevant to quantity, colour, quality flaws or defects or non-compliance that the buyer should have been able to identify as soon as it took possession of the Product, must be made shortly after the time when the brand new Product arrives at its place of destination or, in any event, no more than 15 days after that time;
- Hidden flaws, defects or non-compliance (that is, those not identifiable according to the inspection imposed by law and by the preceding subparagraphs) must be reported within 30 days after the discovery or in any event, no more than 5 years from the delivery date.

Claims must be sent by registered letter, addressed to the head office of the Warrantor and must describe in detail the alleged defect, flaw or non-compliance.

In order to preserve this warranty, the buyer must not attempt any disassembly repairs or modifications on the brand new product without the Warrantor's prior written agreement.

The buyer forfeits and waives its rights under this warranty if the buyer does not consent to every reasonable request of the Warrantor, or if after the Warrantor has requested the return of the defective brand new products at buyer's own expenses, the buyer fails to return the Product within 5 working days from the request.

In the event that the warranty claim is ultimately determined, in the sole discretion of Warrantor, to be unfounded, the buyer will reimburse the Warrantor all expenses incurred by Warrantor in evaluating the warranty claim (travel, expert valuations, transport expenses etc.).

4 - Remedies

Following a report by the buyer duly made in accordance with the previous point 3, the Warrantor, within a reasonable period depending on the type of claim, may, at Warrantor's sole reasonable discretion:

- Supply EXW to Supply EXW to the buyer products of the same kind and quantity as those that have been proved to be defective or not in compliance with the contract; in such a case the Warrantor can require the return of the defective product, which becomes property of the Warrantor. In case of additional costs related to the replacement of a product proved to be defective or not in compliance, Warrantor and buyer shall jointly and previously agree how to apportion the costs.
- Communicate in writing the

cancellation of the contract, and offering a refund of the amount paid for the replaced product.

No other cost (such as disassembling and/or reassembling of the products, transportation from/to the premises of buyer's customers, etc.) shall be charged to or paid by the Warrantor, unless previously expressly agreed in writing by the Warrantor.

5 - Limit of seller's liability

The Warranty provided herein supersedes all legal warranty for defects and compliance, and excludes any other possible liability of the Warrantor, however originating, from the brand new products supplied by Warrantor. In particular, the buyer cannot put forward another claim for compensation in respect of any further damages, request any reduction of the contract price or cancellation of the contract. Once the period of the Warranty has expired no claim can be made against the Warrantor.

In no event shall Warrantor be liable to buyer for any direct, incidental, indirect, consequential or exemplary damages, including without limitation any claim for damages based on lost revenues or profits, however caused.

No exceptions to or modification of this Warranty will be permitted unless expressly and specifically defined and accepted by the parties in writing.

6 - Technical regulations

As far as the brand new product characteristics and specifications are concerned, the Warrantor complies with the legislation and the technical regulations prevailing in Italy and the European Directives, unless otherwise specified in the contractual documentation (i.e. contract, order's confirmation, invoice, installation/fitting or use and maintenance manual); The buyer assumes the risk of any difference between the European Directives plus the Italian regulations and those of the country of destination, regarding the use or installation of the Products, and indemnifies the Warrantor for any such differences it. The Warrantor guarantees the performance of brand new products manufactured by Warrantor only and exclusively in relation to uses, destinations, applications, tolerances, capacities, etc. that have been expressly indicated by Warrantor and that are incorporated in the contractual documentation (i.e. contract, order's confirmation, invoice, installation/fitting or use and maintenance manual).

The buyer is not authorised to dispose of the brand new Products supplied to him by the Warrantor in a way which does not conform to the indications described in the previous sub-paragraph and in the instructions given by Warrantor.

Where the buyer intends the said products to be resold, it shall be buyer's responsibility:

- to inform the purchasers of the Product from buyer of the correct specifications and uses of the Product;
- to grant any further periods or extended terms of any warranty provided by buyer only to buyer's purchasers that exceed the warranty granted to buyer by Warrantor according to paragraph 3.
- the buyer shall not grant or extend any warranty on behalf of Warrantor to any third party.

7 - Personal injuries and property damages

Warrantor shall indemnify buyer from and against any and all claims, demands, losses, liabilities alleged by third parties relating to personal injuries and property damages suffered as a result of a defective product. In such event, Warrantor will exclusively be responsible within the limits (of deductible), terms and conditions of the product liability insurance policy held by it (a copy of the related insurance declaration is available upon request).

In case of potential damages to third parties that may arise from a defective brand new product, the buyer and Warrantor shall work together in good faith to determine the nature and extent of the appropriate measures to be taken, including recall operations. It is understood that the costs and expenses associated with the recall or other measures shall be paid by Warrantor within the limits, the terms and the conditions set forth in Warrantor's liability insurance policy, with the exclusion of the costs connected to the locating and retrieving the Products in the market, which will be paid by the Buyer.



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