

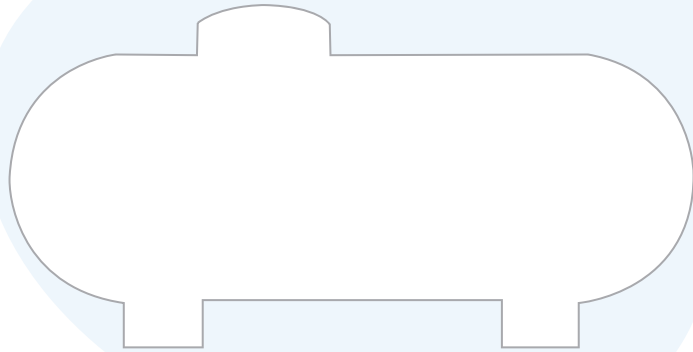


**Cavagna group**

Advanced Solutions for Gas Control

**LPG-CNG VALVES & EQUIPMENT** DIVISION

# LPG TANK EQUIPMENT



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

For orders please refer to:



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**cavagna group**



**U.S.A.**

**LPG TANK EQUIPMENT**



# Multiservice Valve


**67.0805**

67.0.490.0805


**NEW  
DESIGN**

## APPLICATION

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

## FEATURES

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

## ORDERING INFORMATION

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



## Multiple head unit



### 67.0807

67.0.490.0807

**Multi Service Valve** for ASME underground Propane tank.

### APPLICATION

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

### FEATURES

The solid brass multiservice valve incorporates:

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

\* Specify when ordering

### ORDERING INFORMATION

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



# Multiservice Valve



**67.0720**

67.0.490.0720

## APPLICATION

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

## FEATURES

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

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

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

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

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

**Fixed level gauge** - Please specify DT length when ordering

**Everseal** - Preapplied on the inlet thread

Various DT length upon request

## ORDERING INFORMATION

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



## Filler Valves



**66.1122**  
66.0.290.1122  
Double Check Filler Valve.

**NEW DESIGN**



**66.1232**  
66.0.290.1232

**NEW DESIGN**

### FEATURES

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

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

**One Piece Body Design** - 66.1073

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

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

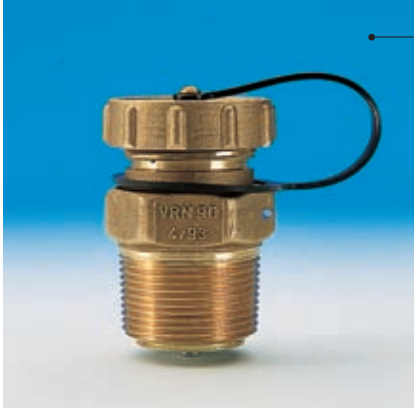
**Note:** For replacement components, please refer to the end of the section.

### ORDERING INFORMATION

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



## Filler Valves



### VRN 90

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



### VRN 20L

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



### VRN 93

66.0.290.0221



### VRN 88

67.0.490.0681

## FEATURES

- Both these valves are a double check filler valves where there are a soft seated upper back check and a (2) metal to metal lower back check seat
- In addition these filler valves incorporate an emergency ball shut-off valve
- These two versions can be used either for underground (VRN 88) or above ground LPG tanks (VRN 93) thanks to an oriented easy to connect design to the bobtail delivery truck
- Both valves are conforming British standards

## ORDERING INFORMATION

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





## Filler Valves with overfilling prevention device



### 66.1101

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



### 66.1106

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



### VRN SC-1200

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

### APPLICATION

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

## ORDERING INFORMATION

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



## Filler Valves

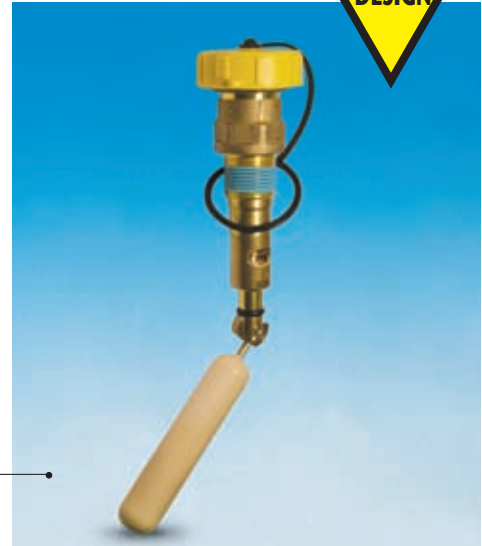
**NEW DESIGN**



### 66.1115

66.0.290.1115  
Filler valve for vertical ASME and DOT containers. Specify tank diameter when ordering. Suitable for a 300 litres or 420lbs vertical tank. They can be fitted to other tank sizes upon request.

**NEW DESIGN**



### 66.1154

66.0.290.1154  
For Automotive Application



### 66.1157

66.0.290.1157

### APPLICATION

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

### ORDERING INFORMATION

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



## Internal Pressure Relief Valves for ASME and DOT Containers



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



**66.1128 NEW**  
(66.1030) OLD

66.0.290.1128 NEW  
(66.0.290.1030) OLD



**66.1135 NEW**  
(66.1057) OLD

66.0.290.1135 NEW  
(66.0.290.1057) OLD



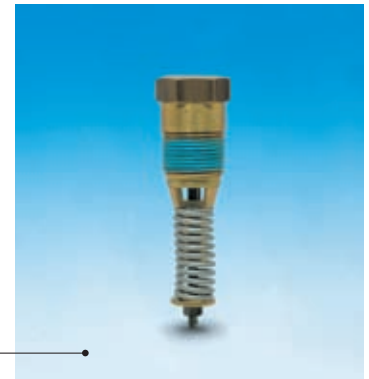
**66.1129 NEW**  
(66.1029) OLD

66.0.290.1129 NEW  
(66.0.290.1029) OLD



**66.1130 NEW**  
(66.1031) OLD

66.0.290.1130 NEW  
(66.0.290.1031) OLD



**66.1162**  
66.0.290.1162

### ORDERING INFORMATION

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



# Rain caps for Internal Pressure Relief valves Vinyl or plastic



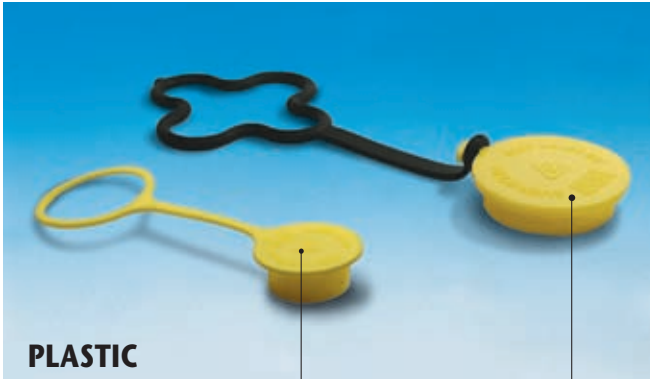
VINYL

- 30.0274
- 30.0273
- 30.0276



PLASTIC

- 10.5032
- 10.5036
- 10.5033
- 10.5037



PLASTIC

10.5038

- 10.0203
- 10.0204
- 10.0205

## ORDERING INFORMATION

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



PLASTIC

10.5056



## Internal Pressure Relief Valves for DOT fork lift Cylinders



### 66.1027

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



### 66.0248

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

## ORDERING INFORMATION

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



## Service Valves for DOT Fork Lift and ASME Motor Fuel containers


**80.2062**

80.0.380.2062


**80.2063**

80.0.390.2063


**80.2064**

80.0.390.2064


**80.2146**

80.0.390.2146

### APPLICATION

These valves are designed for vapor or liquid withdrawal service on DOT fork lift truck containers (80-2064) and ASME containers (all the others). All these valves are equipped with an excess flow limiter with different settings.

Since these valves do not have an integrated pressure relief valve they may only be used as an accessory valve on containers that have an independent PRV suitable for that container capacity (like 66.0248 or 66.1057 or 66.1058 see page pressure relief valves).

### FEATURES

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

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

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

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

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

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

## ORDERING INFORMATION

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



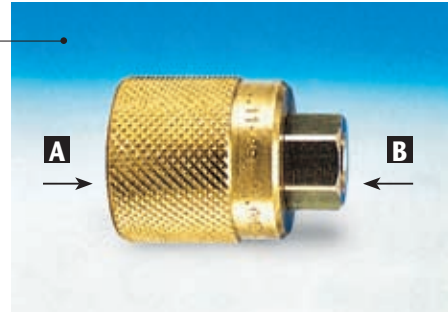
## Lift Truck Connectors

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



### 66.1024

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



### 66.1023

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

## ORDERING INFORMATION

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



## Fixed Liquid Level Gauges



### 66.1072

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



### 66.1161

66.0.290.1161

## ORDERING INFORMATION

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



## Liquid Withdrawal Valves with excess flow

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



### 69.0010



69.0.190.0010

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



### 66.1109

66.0.290.1109

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



### 66.1025



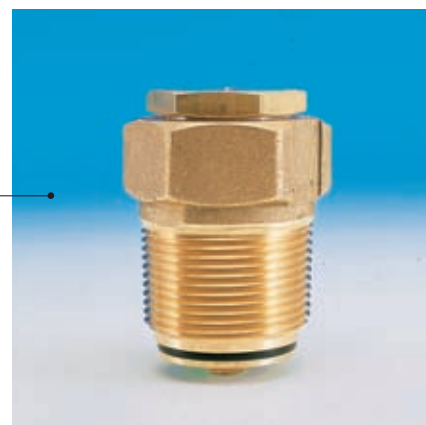
66.0.290.1025

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

### 69.0017

69.0.190.0017

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



## ORDERING INFORMATION

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





**LPG 5 YEARS  
LIMITED WARRANTY**

## Service Valves for ASME and DOT containers or fuel line application



### 80.3135

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



### 80.1002

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

## FEATURES

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

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

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

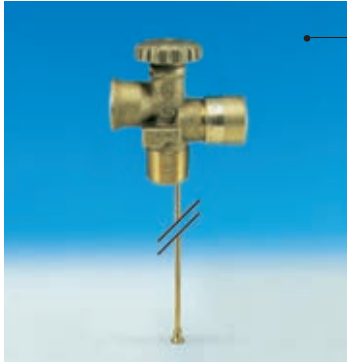
## ORDERING INFORMATION

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



LPG **5** YEARS  
LIMITED WARRANTY

## Service Valves for DOT Cylinders



### 80.6032

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



### 80.5024

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



### 80.5016

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



### 80.6033

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

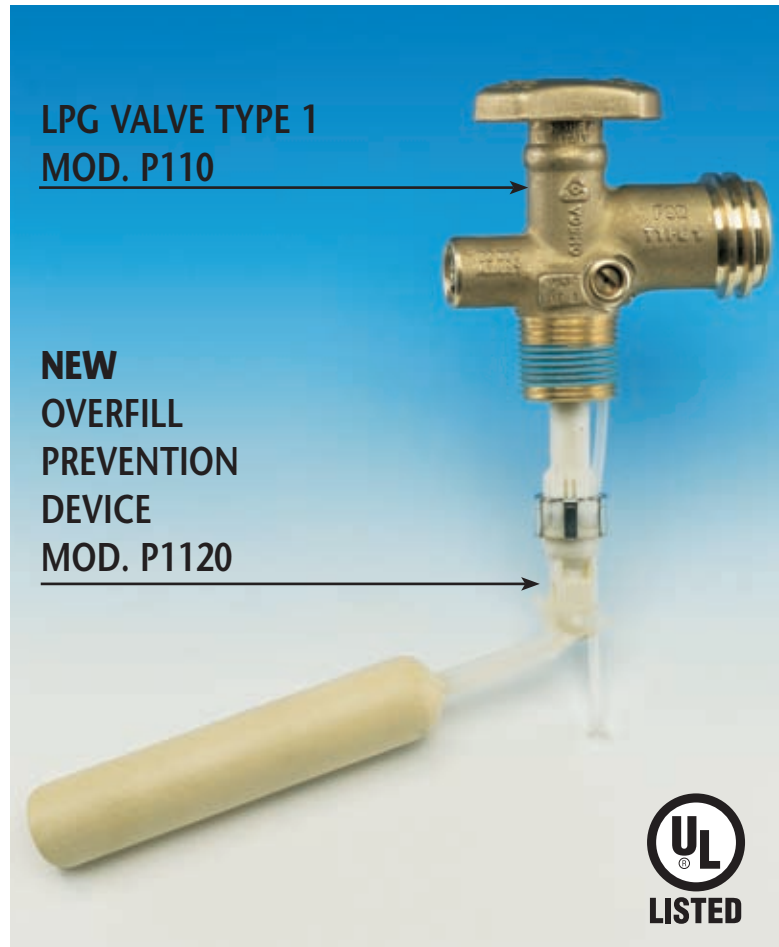
## ORDERING INFORMATION

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



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

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



### FEATURES

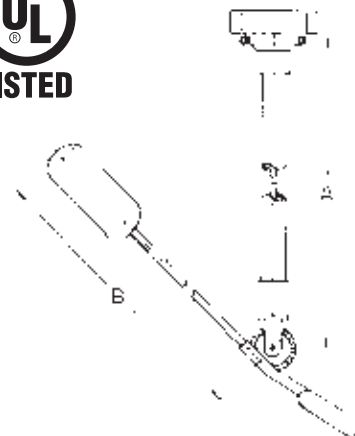
- ▶ Rapid Purging and filling with over One million BTU Withdrawal Capacity
- ▶ Steel Safety Cage provides long-term Operational Protection
- ▶ Tri-lobular one-piece forged brass handwheel
- ▶ Double "O-Ring" stem seal for improved leak resistance
- ▶ Includes Ever Seal sealant (pre-applied)
- ▶ Quad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

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



## LPG Float Gauges Flanged 4 bolt model

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



### ORDERING INFORMATION

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

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

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



## Magnetic LPG level indicator

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



### 101-3/4

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



### ORDERING INFORMATION

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

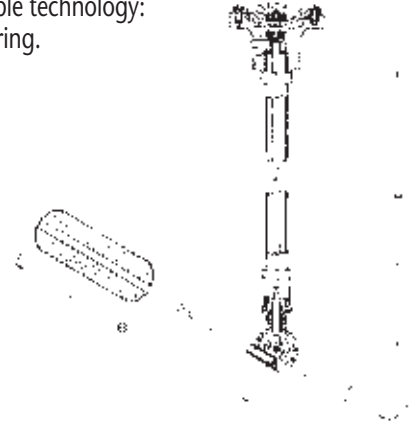
Threaded 3/4" model.  
Die cast zinc hexagonal head (hex. 50)  
Gear made of antivibrating delrin.  
Float in spansil rubber.  
Dial with reading lying within 140°.

Advise the cylinder diameter for different request.

## LPG Threaded Float Gauges



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



### ORDERING INFORMATION

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

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

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



## Tank Equipment Spare Parts

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



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

Type connection	Part number
Back side	30.0.110.0179
Radial	30.0.110.0180



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

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



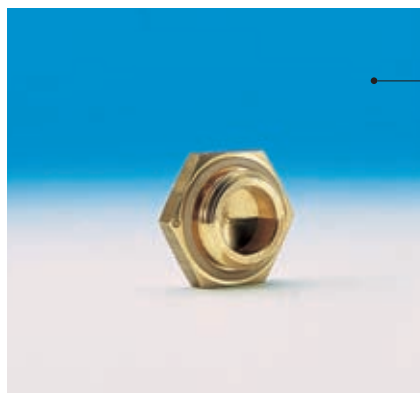
Rain caps for Internal Pressure Relief valves

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



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

16.0.950.0026



Plug with gasket for Liquid Withdrawal Valve.

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



## Tank Equipment Spare Parts

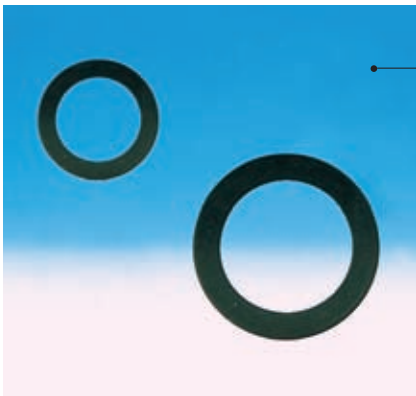


Plastic cap with ACME threading.  
Caps with ACME threading also available in brass.

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



Vent stem.  
(GSE 35 - GS 50)  
03.0.950.0145

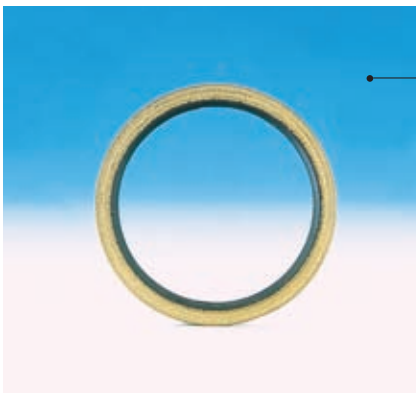


Rubber gasket for ACME thread cap.

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



Plastic rain caps for external safety relief valves.



Bonded seals for external safety valves with cylindrical thread.

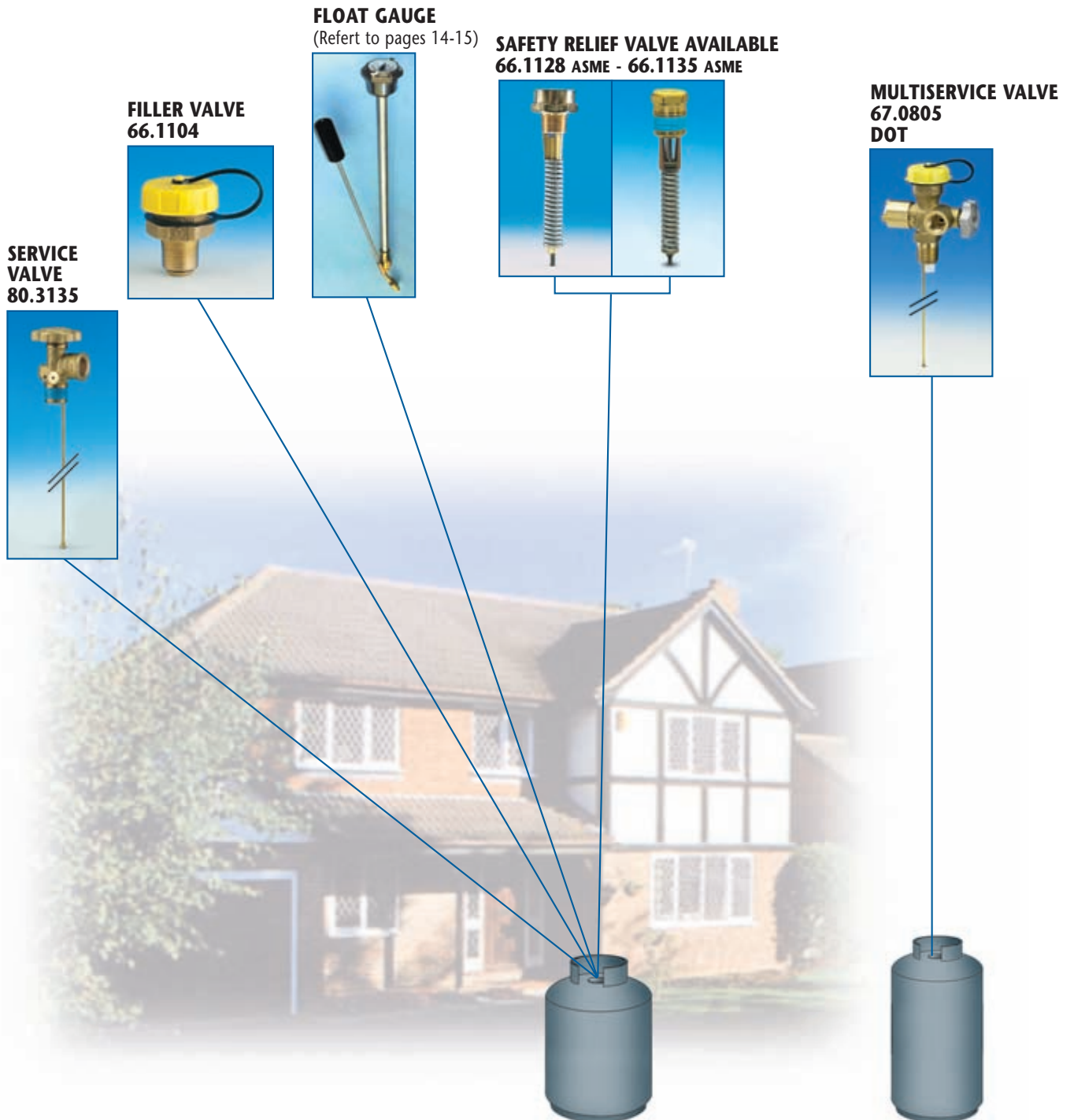
Type for	Part number
EU 20	04.0.110.2573
EU 25	04.0.110.2570
EU 30	04.0.110.2574
VS 36	04.0.110.2588
VS 45	04.0.110.2587

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

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



# DOT ASME Cylinder Valve





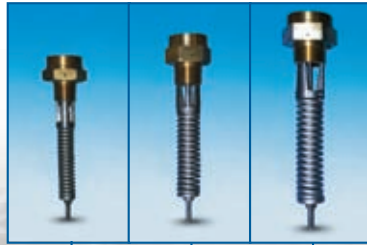


# Stationary tank installation



**RELIEF VALVES**  
(depending on the tank size)

66.1128 66.1129 66.1130



**LIQUID WITHDRAWAL VALVE**

69.0010



**FLOAT GAUGE**  
(Refert to pages 14-15)



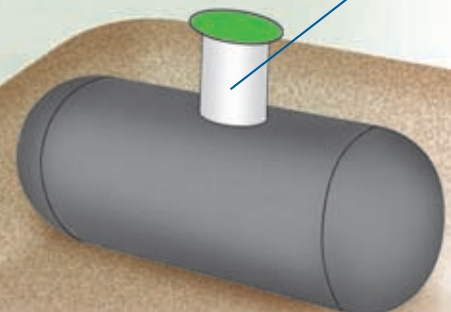
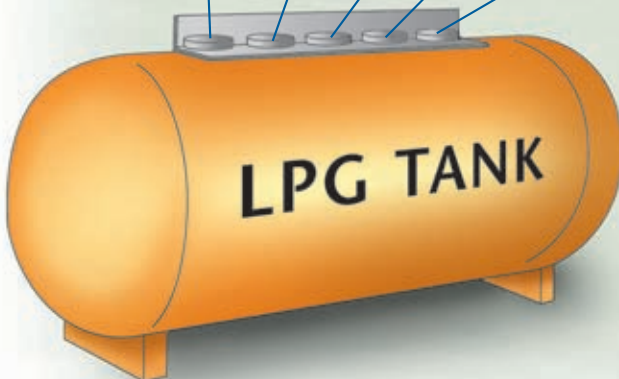
**MULTISERVICE VALVE**  
67.0720



**FILLER VALVE**  
66.1232 or 66.1106



67.0807





# DOT fork lift truck containers



**FLOAT GAUGE**



**SERVICE VALVE  
80.2064**



**CONNECTOR  
66.1024**



**CONNECTOR  
66.1023**



**SAFETY RELIEF VALVE  
66.0248**



**FILLER VALVE  
66.1122**



**FIXED LEVEL GAUGE  
Various DT lengths**





# Motor Fuel Tanks



**FILLER VALVE**  
66.1122



66.1154



66.1157

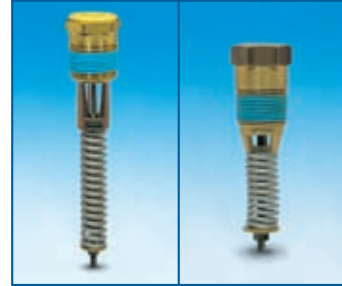
**FILLER VALVE with OPD**

**SERVICE VALVE**  
80.2062 or  
80.2063



80.2146

**SAFETY RELIEF VALVE**  
66.1135 - 66.1162 ASME



**FIXED LEVEL GAUGE**  
Various DT lengths





**cavagna group**





## Multiservice Valves



### GS 50

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

### GSE 35

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



### GS 41

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

### GS 89

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



### GS 90

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



## ORDERING INFORMATION

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

\* see page Spe1, item 16.0.950.0039/0052. Two models depending on the capacity required – please specify when ordering

\*\* please specify length of dip tube, tank capacity and diameter when ordering

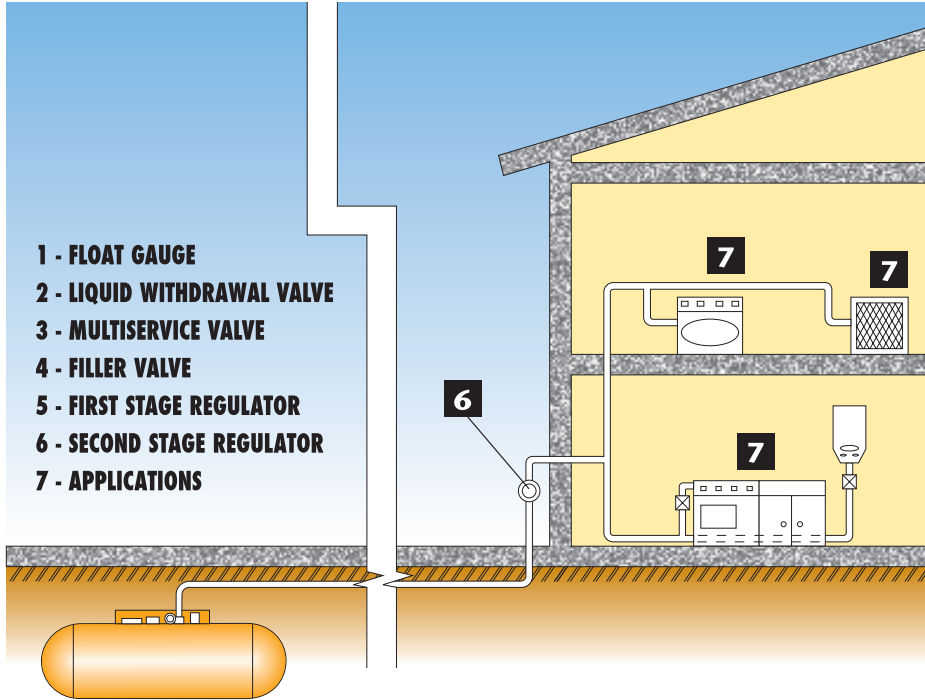
<sup>(1)</sup> Data valid when upstream pressure 2 bar and first stage 40 kg/h regulator connected – excess flow valve performance.

<sup>(2)</sup> 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.



# Compact Underground Tank Set

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

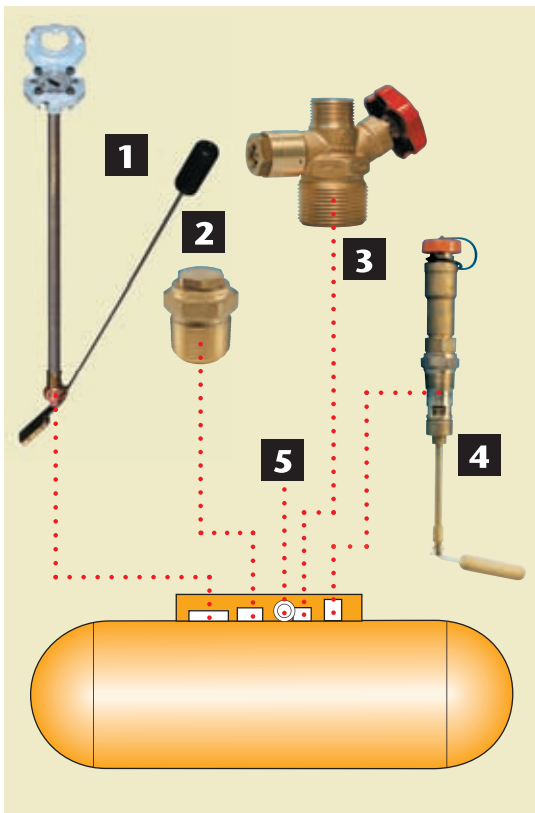


- 1 - FLOAT GAUGE
- 2 - LIQUID WITHDRAWAL VALVE
- 3 - MULTISERVICE VALVE
- 4 - FILLER VALVE
- 5 - FIRST STAGE REGULATOR
- 6 - SECOND STAGE REGULATOR
- 7 - APPLICATIONS

✓ **New Concept**

✓ **Easy On**

✓ **Low Impact**



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



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



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



# Filler Valves



**VRN 90**  
66.1051



**VRN 20L**  
66.1063

## FEATURES

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

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

### Two Piece Body Design

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

**Note:** For replacement components, please refer to the end of the section.  
66.1043 and 66.1063 are furnished with plastic blue caps with strap.  
66.1051 is furnished with solid metal cap in brass.

- All our filler valves have a filling capacity  $\geq 8 \text{ m}^3$  water  $\Delta p = 4 \text{ bar}$ .



**VRN 20**  
66.0.290.1043

## ORDERING INFORMATION

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



## Filler Valves with Manual Ball Shut-off Features



**VRN 93**  
66.0221



**VRN 88**  
67.0681

### FEATURES

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

### ORDERING INFORMATION

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





## Filler Valves with Overfilling Prevention Device



### 66.1101

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



### 66.1106

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



### VRN SC-1200

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

### APPLICATION

These filler valves are designed for horizontal and vertical LPG containers.

All the valves are equipped with an antifilling prevention device.

Always specify type of tank (horizontal or vertical) diameter of the tank and location of the filler valve in the flange of the tank.

- All our filler valves have a filling capacity  $\geq 8 \text{ m}^3$  water  $\Delta p = 4 \text{ bar}$ .

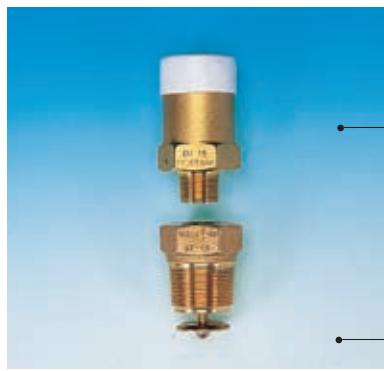
## ORDERING INFORMATION

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



## External Pressure Relief Valves

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

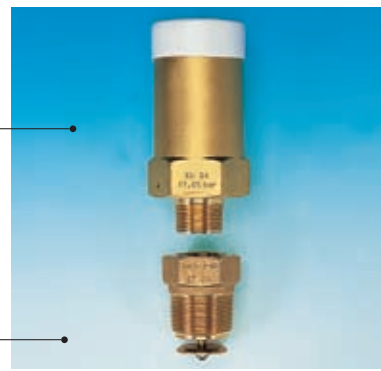


### EU 19

70.0014  
Pressure relief valve with conical thread between valve and lower check valve. Setting point: 17,65 bar.

### ST 19

71.0005

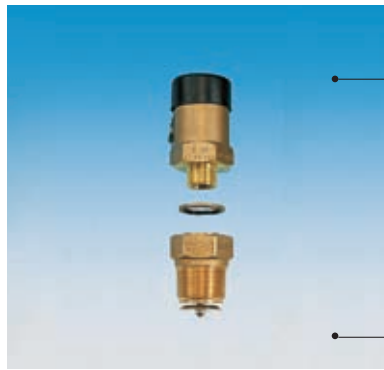


### EU 24

70.0008  
Pressure relief valve with conical thread between valve and lower check valve. Setting point: 17,65 bar.

### ST 24

71.0010

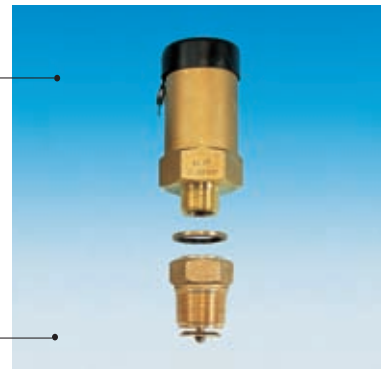


### EU 20

70.0026  
Pressure relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

### ST 20

71.0016

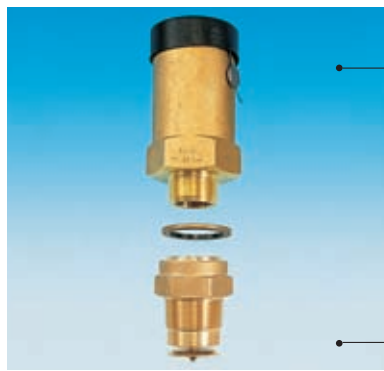


### EU 25

70.0205  
Safety relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

### ST 25

71.0000

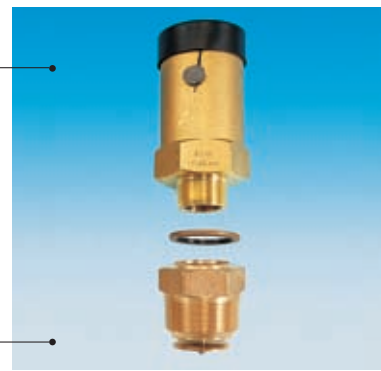


### EU 30

70.0004  
Pressure relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

### ST 30

71.0004



### EU 30

70.0004  
Safety relief valve with cylindric thread to be used in connection with the lower check valve. Tightness assured by bonded seal. Setting point: 17,65 bar.

### ST 32

71.0011

## ORDERING INFORMATION

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

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

\* PRV = Pressure Relief Valve and CLD = Check-lock Device

\*\* please specify your requested setting pressure when ordering - various setting points available.

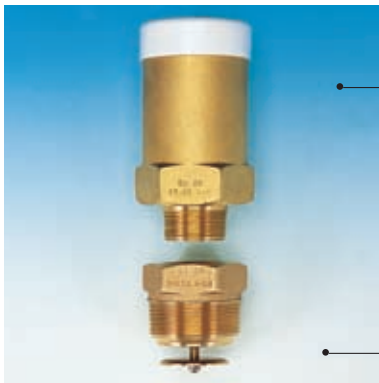
\*\*\* please enquiry our sales department for further local approvals - several national approvals available.



## External Pressure Relief Valves



**VS 60**  
70.0080  
Safety relief valve with big capacity.

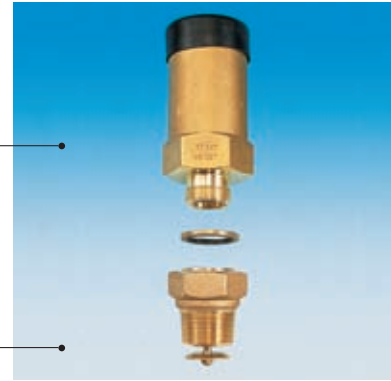


**EU 29**  
70.0016  
Pressure relief valve with conical thread between valve and lower check valve. Setting point: 17,65 bar.

**ST 29**  
71.0015



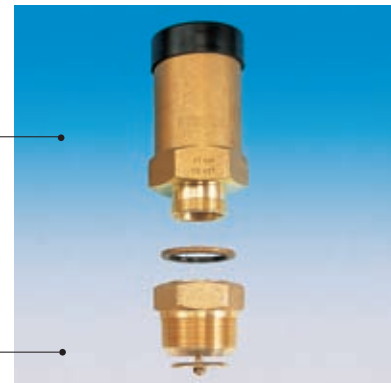
**66.1139**  
Pressure relief valve for small containers and on-line pipe installations. Setting point: 17,24 bar.



**VS 367** 17 bar  
**VS 368** 18 bar

70.0020  
70.0008  
Pressure relief valve with a lower check valve available with different inlet threads.

**ST 36**  
71.0.190.0026



**VS 456** 16 bar  
**VS 457** 17 bar

70.0015  
70.0031  
Pressure relief valve with a lower check valve.

**ST 45**  
71.0030



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

### ORDERING INFORMATION

Part Number*	Bottom Male Connection	Wrench grip hexagon (mm)	Thread type		Configuration suitable for this tank capacity:	PRV - Start to Discharge Setting (bar)	PRV-OVERPRESSURE 10% CAPACITY Nm <sup>3</sup> /min. (If not specified otherwise)	Approval	PRV Orifice (mm)
			taper	parallel					
<b>70.0080 (VS 60) - PRV</b>	2 1/2" NPT	110	x		10000 lt.	basic 17,65**	260,00	CE***	45,00
<b>70.0016 (EU 29) - PRV</b>	1 1/4" NPT	68	x		3000/5000 lt.	basic 17,65**	107,00		29,50
<b>71.0015 (ST 29) - CLD</b>	2" NPT	60	x						
<b>66.1139 - PRV</b>	1/4-18 NPT	22	x		-	17,24	18,41 (at 120%O.P.SCFM-AIR)	UL/ASME	19,00
<b>70.0020/0008 (VS 367/368) - PRV</b>	M 36 x 2	60		x	1000 lt.	17 and 18**	72,5 and 80,00	CE***	24,50
<b>71.0026 (ST 36) - CLD</b>	1 1/4" NPT	52	x						
<b>70.0015/0031 (VS 456/457) - PRV</b>	M 45 x 2	68		x	1750-3200 lt.	16 and 17**	N/a	CE***	29,50
<b>71.0030 (ST 45) - CLD</b>	2" NPT	62	x						
<b>66.1140 - PRV</b>	1/4-18 NPT	22	x		-	25,85	33,52 (at 120%O.P. AIR)	UL	19,00

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

\* **PRV = Pressure Relief Valve** and **CLD = Check-lock Device**

\*\* please specify your requested setting pressure when ordering - various setting points available.

\*\*\* please enquiry our sales department for further local approvals - several national approvals available besides CE-approval.



# Liquid Withdrawal Valves



## VL 13

Liquid withdrawal valve.



## RL 15

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



## VL 25

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



## RL 25

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



## RL 11

72.0029  
Liquid Transfer Valve.



## RRL 16 A-P

67.0797 / 0793  
Liquid withdrawal valve complete with protection cap.

## ORDERING INFORMATION

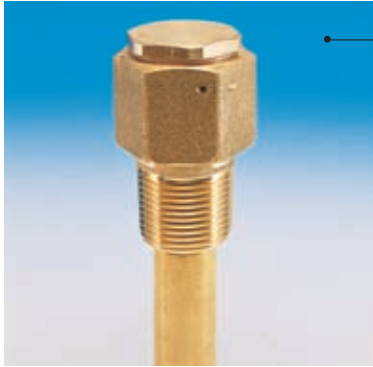
Part number	Container Connection	Outlet Connection	Closing Flow	Wrenching Grip (mm)
<b>69.0008 (VL 13)</b>	3/4" – 14 NPT	3/4" – 14 NPT (plugged)	N/a	35
<b>69.0005 (VL 25)</b>	1 1/4" – 14 NPT	M 25x1.5 (plugged)	N/a	46
<b>72.0029 (RL 11)</b>	3/4" – 14 NPT	M 20x1.5-6	N/a	28 (square)
<b>72.0004 (RL 15)</b>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

\* please specify when ordering

\*\* Data valid when upstream pressure is 2 bar - excess flow device performance equal to 28-30 Nm<sup>3</sup>/h air.



## Liquid withdrawal valves



### VLT 18

69.0020  
Liquid withdrawal valve with dip tube available in different lengths according to various tank sizes, to be used in connection with our RL 15 Liquid Withdrawal Valve.



### LF 14

69.0038  
Liquid withdrawal Excess Flow Valve.  
Performance: excess flow closes  $25.5 \pm 3$  m<sup>3</sup>/h (water); residual flow  $\leq 0.020$  m<sup>3</sup>/h (water) with  $\Delta P +1$  bar

**NEW DESIGN**



### VLF 14-C

69.0019  
Liquid withdrawal Excess Flow Valve.



### LF 25

69.0004  
Liquid withdrawal Excess Flow Valve.



### VLF 25C

69.0040  
Liquid withdrawal Excess Flow Valve.  
Performance: excess flow closes  $25.5 \pm 3$  m<sup>3</sup>/h (water); residual flow  $\leq 0.020$  m<sup>3</sup>/h (water) with  $\Delta P +1$  bar

## ORDERING INFORMATION

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

\* Data valid for  $\Delta P = 1$  bar – excess flow device performance equal to  $4,5 \pm 5,5$  m<sup>3</sup>/h water with residual flow  $\leq 0,050$  m<sup>3</sup>/h.

\*\* Data valid for  $\Delta P = 1$  bar – excess flow device withdrawal performance equal to  $2,5^{+0,5}$  m<sup>3</sup>/h water with residual flow  $\leq 0,050$  m<sup>3</sup>/h.

\*\*\* Data valid for  $\Delta P = 1$  bar – excess flow device withdrawal performance equal to  $2,5^{+0,5}$  m<sup>3</sup>/h water with residual flow  $\leq 0,050$  m<sup>3</sup>/h



## LPG Float Gauges



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

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

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

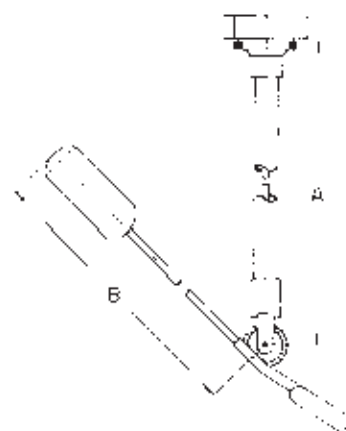
All gauges can be manufactured in brass or in zamac.

Available also with metal cover.

Customized float gauges can be supplied on demand.

### LPG Float Gauges with 4 Screws

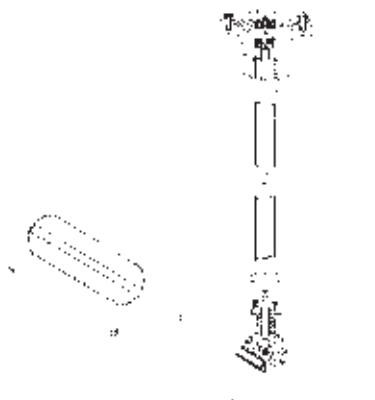
LPG TANK LEVEL GAUGES			
Cod.	Tank model	Ø	Lt.
2070/I A	horizontal	800	990/1000
2071/I A	horizontal	1000	1750/1800
2072/I A	horizontal	1200	3000/5000
2073/I A	horizontal	1250	-
2075/I A	vertical	800	500
2076/I A	spherical	-	990
2077/MTI-E TVA	vertical	1000	1000
2078/MTI-E TVA	vertical	1200	1500/1650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



### LPG Float Gauges with Thread

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

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





## Tank Equipment Spare Parts

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



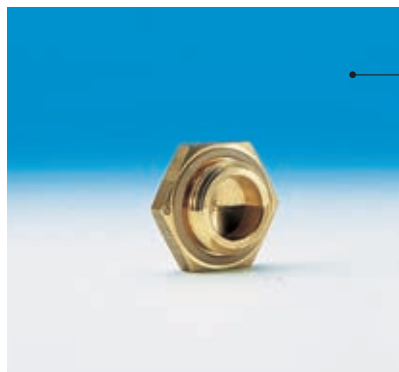
Pressure gauge in glycerine bath.  
Scale 0-25 bar.  
Connection: 1/4" NPT.

Type connection	Part number
Back side	30.0.110.0179
Radial	30.0.110.0180

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

16.0.950.0039  
(capacity 50 Kg.)

16.0.950.0052  
(capacity 95 Kg.)



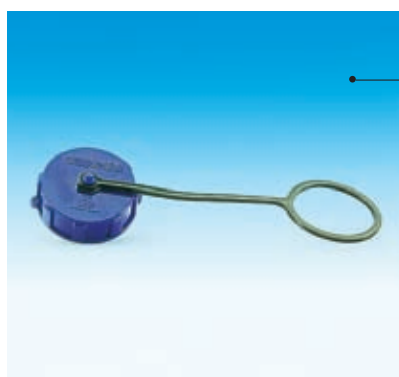
Plug with gasket for Liquid Withdrawal Valve.

Type for	Part number
VL18 - VL13	10.0.950.0080
VLF14 - VLF25	10.0.950.0082



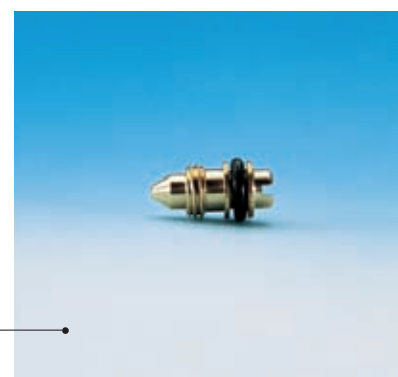
Connection for steel pipe (to be welded), applicable to RL 15 - RL 25 Cylinder Valves.

16.0.950.0026



Cap with ACME threading.

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



Vent stem.  
(GSE 35 -GS 50)

03.0.950.0145



Plastic rain caps for Safety Valves.

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

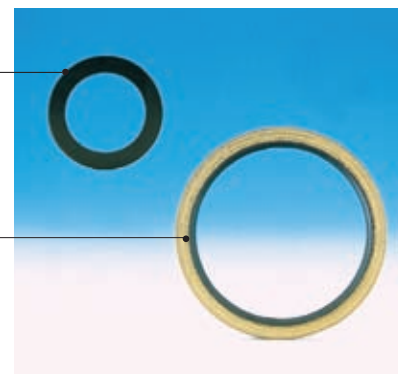
Type for	Colour Black
EU 20	10.0.110.5016
EU 25	10.0.110.5014
EU 30	10.0.110.5015

Rubber gasket for ACME thread cap.

Type for	Part number
VRN	04.0.110.2565
GSE	04.0.110.2578

Bonded Seals for Safety Valves with cylindrical thread.

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





# Stationary Tank Installation



## FLOAT GAUGES (Refer to page He1)



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



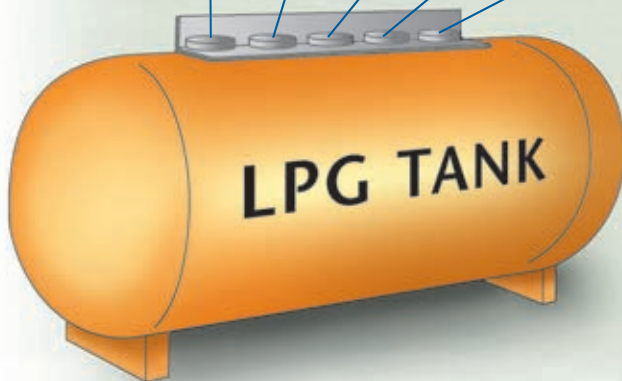
## LIQUID WITHDRAWAL VALVES (Refer to pages Ee1 - Ee2)



## MULTISERVICE VALVES (Refer to pages Ae1 - Ae2)



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







# Stationary Tank Installation



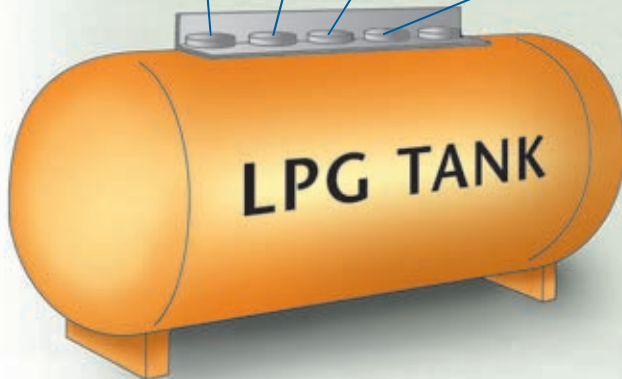
**FLOAT GAUGES**  
(Refer to page He1)



**LIQUID WITHDRAWAL VALVES**  
(Refer to pages Ee1)



**FILLER VALVES**  
(Refer to pages Be3)





**Cavagna group**

Advanced Solutions for Gas Control

**LPG-CNG VALVES & EQUIPMENT** DIVISION

# LPG CYLINDER VALVES



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

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

For orders please refer to:



cavagna group



tel. +39 030 9663.111 - fax +39 030 9969014  
Website: [www.cavagnagroup.com](http://www.cavagnagroup.com)  
E-mail: [omeca@cavagnagroup.com](mailto:omeca@cavagnagroup.com)



## German LPG Cylinder Valves



### 80.6019

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



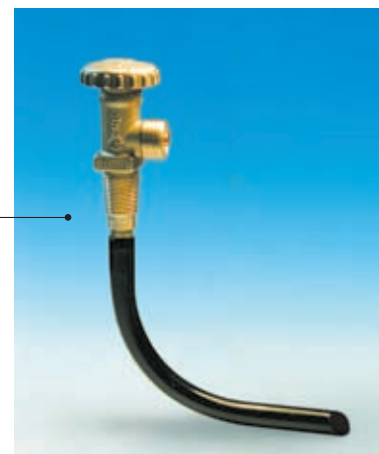
### 80.6018

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



### 80.3023

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



### 80.3024

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

## ORDERING INFORMATION

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



## German LPG Cylinder Valves



### 80.6101

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

### ORDERING INFORMATION

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



## LPG Handwheel Valves

**NOW  
π  
certified**



**80.8066**

80.0.890.8066  
POL valve for 10 kg  
cylinders.



LISTED



LISTED

**80.4009**

80.0.590.4009  
POL cylinder valve with  
pressure relief valve.



**80.5024**

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



LISTED



LISTED

**80.4002**

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



**80.6033**

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



LISTED

**80.5038**

80.0.690.5038  
Propane cylinder valve.



**80.1174**

80.6.290.1174  
Cylinder valve inlet  
DIN GROSS  
outlet ø 21.8 mm.

**80.5018**

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



**80.4001**

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

**80.5013**

80.0.690.5013  
Cylinder valve with  
pressure relief valve  
capacity 10 m<sup>3</sup>/minute.





## LPG Handwheel Valves

The wide acceptance of Omeca cylinder valves is based on their reliable performance as well as their reputation for engineering and manufacturing excellence.

Omeca utilize seat discs and stem seals which resist deterioration and provide the kind of reliable service required for L.P. GAS, hand-tight closings and a faster filling cylinder valve.

**NOW  
π  
certified**



### 80.1059

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



### 80.1002

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



### 80.2051

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



### 80.1056

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



### 80.8010

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



### 80.3012

80.0.490.3012  
O-F valve with  
fixed liquid level tube.



### 80.6019

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



### 80.6018

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



## LPG Handwheel Valves

**NOW  
π  
certified**



### 80.4014

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



### 80.1019

80.0.290.1019  
LP Cylinder valve with seal gasket on the outlet.



### 80.2122

80.0.390.2122  
Cylinder valve with rubber flow limiter



### 80.2120

80.6.390.2120  
Cylinder valve with flow limiter.



### 80.3098

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



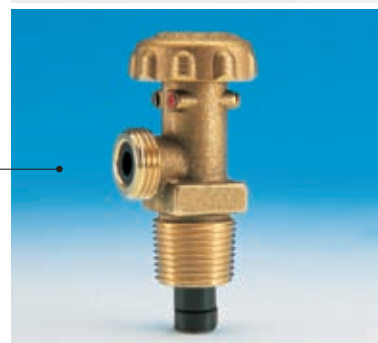
### 62.0128

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



### 80.3037

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



### 62.0504

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



### 62.0014

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



### 80.1045

80.6.290.1045  
Cylinder valve inlet DIN GROSS. Outlet  $\varnothing$  20 mm.





## LPG Jumbo Valves



**66.0071**  
66.8.290.0071  
"Jumbo" valve  
with safety relief.  
Various settings available.  
19,8 x 1/4" DIN 477 inlet.



**66.0205**  
66.8.290.0205  
"Jumbo" valve  
with safety relief.  
Various inlets.  
Various pressure  
settings available.



**66.0064**  
66.8.290.0064  
"Jumbo" valve  
with safety relief valve.  
Inlet thread  
M24 x 1,5 (parallel)

**66.0241**  
66.0.290.0241  
"Jumbo" valve with fusible plug.  
Valve designed to be used  
with the new technology  
cylinders in composite and/or  
aluminium materials.  
28,8 x 1/4" DIN 477 inlet.  
With pressure relief device.



**66.0034**  
66.8.290.0034  
Parallel thread inlet.  
Special series for  
composite cylinders

**10.0058**

Black cap.  
Standard  
protection cap.



**10.0057**

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





## LPG Jumbo Valves in one piece with Safety Relief Cartridge



### 66.0038 (A)

66.8.290.0038  
One-piece "Jumbo" with  
safety relief valve cartridge.  
Various inlets/outlets  
and setting pressures.

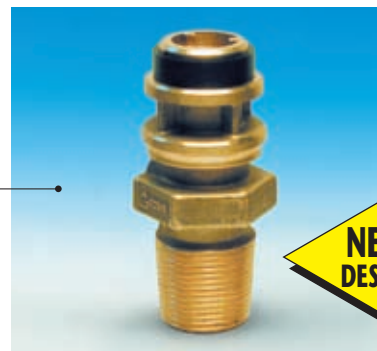
**NEW  
DESIGN**



### 66.0038 (B)

66.8.290.0038  
One-piece "Jumbo"  
without pressure  
relief device.  
Various inlets/outlets.

**NEW  
DESIGN**



### 10.0058

Black cap.  
Standard  
protection cap.



### 10.0057

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



## Flat Top Dirt-Free Jumbo Valves

**NEW**

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



### 66.0074

66.8.290.0074

- 1) One piece Jumbo with or without Safety Relief cartridge. Various inlets/outlets and settings pressure where applicable.
- 2) It incorporates new design by CAVAGNA with top flat surface without any niches so that sediments, dirt, sand, dust or dangerous particles are not allowed to obstruct the main seal of the valve;
- 3) The absence of parts protruding from the top flat prevents accidental opening. The valve gets activated only when regularly coupled with corresponding and conforming regulator.
- 4) The materials of the dust plug (stainless steel) and of the top rubber ring (high stamina against atmospheric agents) are tested for long duration and endurance.
- 5) The flat top configuration is totally compatible with shrink sleeves and makes the use of plastic caps redundant, this allowing or considerable saving.



## LPG Snap-tight and Bayonet Valves



### 66.0131

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



### 66.0132

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



### 66.0259

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



### 66.0135

66.0.290.0135  
Bayonet valve  
various inlets  
with flow limiter.



### 66.0136

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



### 66.0287

66.0.290.0287



## LPG Quick-on Valves



### 66.0049

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



### 66.0022

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



### 66.0067

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



### 66.0005

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



### 66.0035

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



## Flat Top Dirt-Free LPG Quick-on Valves



**NEW**

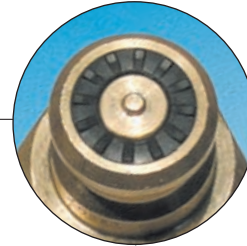


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### V10 A series

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



### V10 B series

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

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

- 1) One piece Quick-on valve with or without Safety Relief cartridge. Various inlets/outlets and settings pressure where applicable.
- 2) It incorporates new design by CAVAGNA with top flat surface without any niches so that sediments, dirt, sand, dust or dangerous particles are not allowed to obstruct the main seal of the valve;
- 3) The absence of parts protruding from the top flat prevents accidental opening.  
The valve gets activated only when regularly coupled with corresponding and conforming regulator.
- 4) The materials of the dust plug (one piece massive brass drive cursor) and of the top rubber ring (high stamina against atmospheric agents) are tested for long duration and endurance.
- 5) The flat top configuration is totally compatible with shrink sleeves and makes the use of plastic caps redundant, this allowing or considerable saving.



## LPG Quick-on Valves



### 66.0001

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



### 66.0060

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



### 66.0013

66.8.290.0013



### 66.0051

66.8.290.0051



### 66.0054

66.8.290.0054



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



In many countries of the world the old system of manual connection of the regulator to the valve has been replaced by a quick on system allowing a consistent safe connection for the consumer without the need for tools.

This system makes possible an easier vertical filling operation.

Please contact our Regulators Division (RECA) for additional information on regulators range of products.



### Compact Quick-On 634

Low Pressure single stage regulator, with not-adjustable setting equipped with a fitting suitable for automatic quickon valves  $\varnothing$  20, 21, 22, 27 mm and bayonet type.

The Compact Quick-On model has a compact and ergonomic shape, easy to handle and to use.

The regulator is mounted directly onto the gas cylinder, connecting it with an easy pressure onto the automatic valve.

The regulator is connected onto the automatic valve turning the lever in the ON position.

Generally all the models Compact Quick - On are equipped with a special thermic safety device (thermofuse), stopping the gas flow in case a fire arises.

On demand, it is possible to assemble an excess flow: a special device able to stop the gas flow in case the hose is suddenly disconnected from the gas appliance.





## Quick-On System

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### Jumbo 58

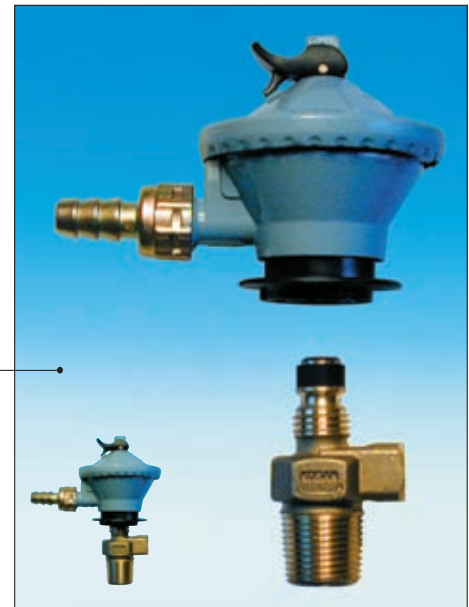
Low Pressure double stage regulator with non-adjustable setting with fitting suitable for automatic valves Ø 35 mm.

On demand, it is possible to assemble an excess flow and a OPSO device (safety relief valve), in order to avoid any overpressure.



### Jumbo High Pressure 84

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



### Kosanova 59

Low Pressure double stage regulator with non-adjustable setting with fitting suitable for automatic valves Ø 16 mm and 19 mm.

On demand, it is possible to assemble an excess flow and a OPSO device (safety relief valve).



### Type 511 horizontal

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



### Type 511 vertical

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





## Fork Lift Truck and Carburation Valves

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

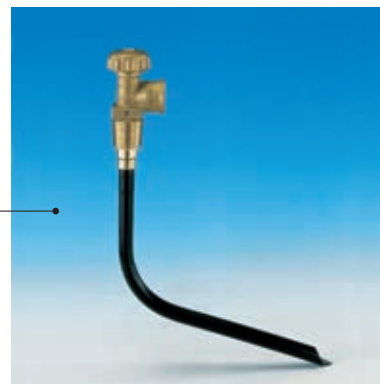


### 00.0000

00.0.000.0000  
Quick-on safety adapter  
for FLT application.

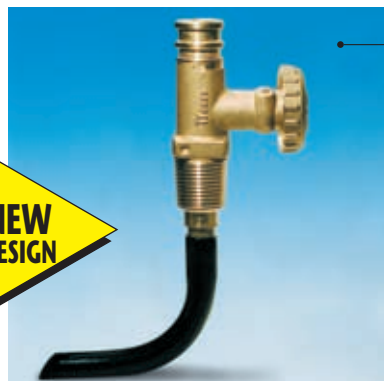
### 80.3014

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



### 80.3072

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



**NEW  
DESIGN**

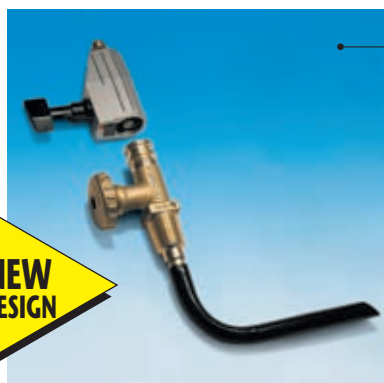
### 80.8162

80.0.890.8162



### 80.3105

80.0.490.3105  
FLT valve with  
flow limiter.  
Outlet with quick  
connection.



**NEW  
DESIGN**

### 80.8162 Kit

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



### 80.3102

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



### 67.0787

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



### 80.3113

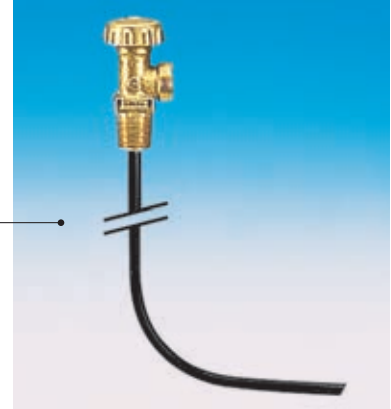
80.0.490.3113  
2<sup>nd</sup> generation  
FLT valve.  
Outlet with quick  
connection.



# Fork Lift Truck and Carburation Valves



**80.3024**  
80.0.490.3024  
New 2nd generation  
FLT valve.



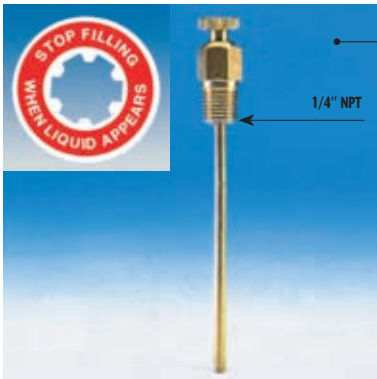
**80.3028**  
80.0.490.3028  
FLT valve  
with long Pipe  
outlet 3/4 GG.



**80.2064**  
80.0.390.2064  
FLT service valve  
with flow limiter.  
Various inlets and outlets.



**80.2062**  
80.0.380.2062  
FLT service valve  
with flow limiter.  
Various inlets and outlets.



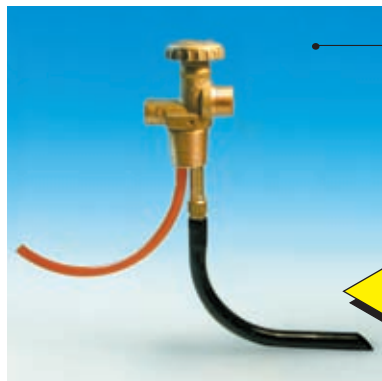
**66.1072**  
66.0.290.1072  
Fixed liquid level gauge.  
Available with different  
dip-tube lengths.  
An optional instruction  
plate may be ordered for  
use with these valves.





## Fork Lift Truck and Carburation Valves

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### 80.3145

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

NEW DESIGN



### 80.8060

80.0.890.8060  
Liquid withdrawal valve with flow limiter. Vertical application.

NEW DESIGN



### 67.0779

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



### 80.8021

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

NEW DESIGN

## Lift Truck Connectors

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



### 66.1024

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



### 66.1023

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



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



## LPG Cut-Off Valves



### V641

64.0.190.0164  
Stop valve.



### 6404

Needle valve.  
Various sizes.



### 64.0003

64.0.490.0003  
"Push and turn"  
stop valve.



### 64.0026

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



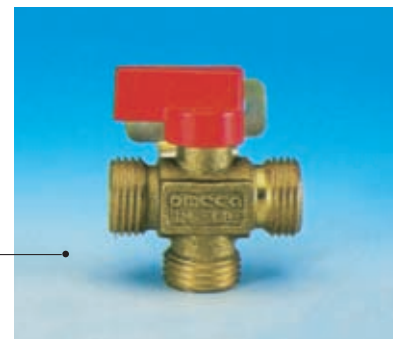
### 64.0043

64.0.490.0043  
"Push and turn"  
stop valve  
double version.



### 80.0501

80.6.190.0501  
Piston type  
stop valve.  
Various sizes.



### IM68

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



### 80.0003

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

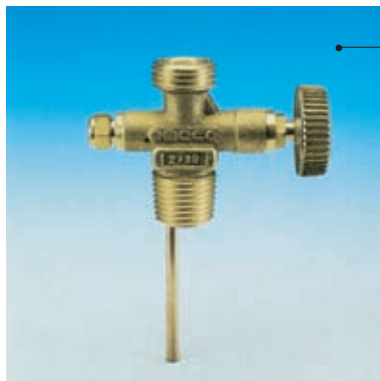


### 80.0512

80.6.190.0512  
Piston type  
stop valve.  
Various sizes.



## LPG Camping Cylinder Valves



### 64.0203

64.0.290.0203  
Volume filling valve  
with safety relief.



### 64.1091

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



### 64.0253

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



### 64.0266

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



### 64.2028+68.0043

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



### 64.4602

64.6.090.4602  
Spindle activated  
camping cylinder valve.



### 64.2001

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



## LPG Camping Cylinder Valves

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### 64.0106

64.0.190.0106  
Camping valve  
with gasket.  
Various inlets  
and outlets.



### 64.4500

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



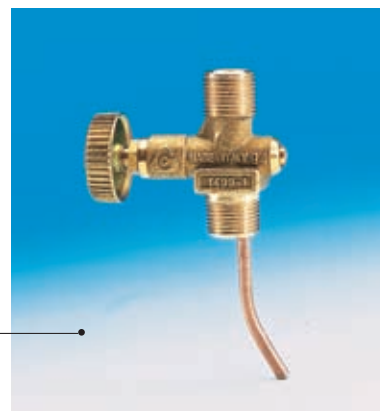
### 64.0124

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



### 64.1089

64.0.390.1089  
Camping valve  
for volume filling  
with degassing screw.



### 64.0310

64.0.390.0310  
Camping cylinder valve  
with degassing screw.



### 64.2044

64.6.590.2044  
Round camping  
cylinder valve  
outlet 16x1,5.



### 64.0313

64.0.390.0313  
Camping cylinder valve  
with degassing screw.

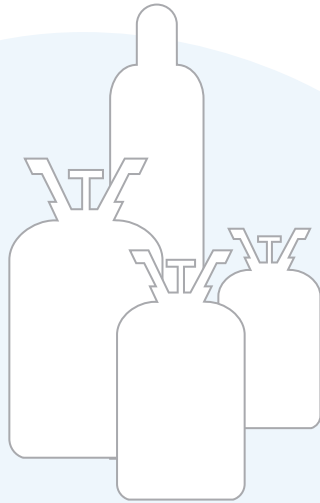


**cavagna group**

Advanced Solutions for Gas Control

**LPG-CNG VALVES & EQUIPMENT** DIVISION

# REFRIGERANT GASES VALVES



REFRIGERANT GASES VALVES

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

For orders please refer to:



cavagna group

omeca

tel. +39 030 9663.111 - fax +39 030 9969014

Website: [www.cavagnagroup.com](http://www.cavagnagroup.com)

E-mail: [omeca@cavagnagroup.com](mailto:omeca@cavagnagroup.com)





# RUS series

## Compact Refrigerant Recovery Valves

### O-Ring Style Cylinder Valves for Refrigerant Gases Liquid/Vapor



#### Key features

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



#### Specifications

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

#### Materials

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

#### Conforming of the requirements of European Community

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

#### ORDERING INFORMATION

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

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



# RDU series Diaphragm Packless Multivalves for Refrigerant Gases

**NOW  $\pi$   
certified  
on demand**

## Key features

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

## Materials

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

## Options

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

## Conforming with requirements of TPED (EN 849)

### ORDERING INFORMATION

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

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

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





# RBV series

## Diaphragm Packless Valves for Refrigerant Gases



### Key features

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

### Materials

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



### Options

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

### Conforming with requirements of TPED (EN 849)

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



# ROB series

## Refrigerant cylinder valves

### O-ring style valves

**NOW  $\pi$**   
certified  
on demand

#### Key features

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

#### Materials

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

#### Options

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

#### Conforming with requirements of TPED (EN 849)



80.1126 model



76.0023 model



8153 model



8150 model



76.0178 model



80.8045 model

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



# ROY series

## Compact Refrigerant Recovery Valves

### O-Ring Style Cylinder Valves for Refrigerant Gases Liquid/Vapor



#### Key features

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



#### Specifications

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

#### Materials

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

#### Conforms to all requirements of:

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

#### Options

- Everseal preapplied on the inlet



# ROY series

## Compact Refrigerant Recovery Valves

### O-Ring Style Cylinder Valves for Refrigerant Gases Liquid/Vapor



#### ORDERING INFORMATION

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

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



# RES series Multiservice wrench operated valve for Refrigerant Gases



## Key features

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

## Materials

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



76.0239

## Options

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

## ORDERING INFORMATION

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

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



# RIV series Heavy duty Refrigerant gas valves O-ring style

**NOW  $\pi$   
certified  
on demand**

## Key features

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

## Materials

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



## Options

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

## ORDERING INFORMATION

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

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



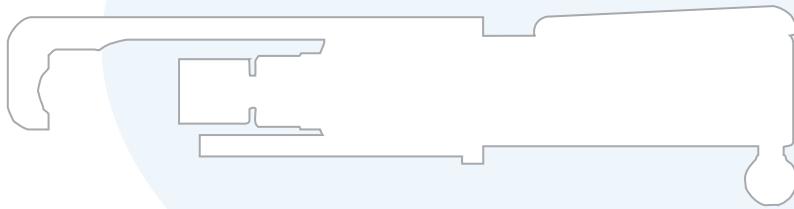


**Cavagna group**

Advanced Solutions for Gas Control

**LPG-CNG VALVES & EQUIPMENT** DIVISION

# FILLING HEADS



FILLING HEADS

## **PRODUCT DESCRIPTION**

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

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

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

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

For orders please refer to:



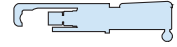
**CAVAGNA group**

**Kosan<sup>®</sup> INTERNATIONAL**

tel. +39 030 9663.111 - fax +39 030 9969014

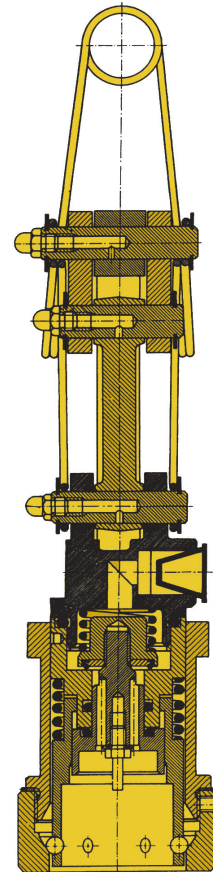
Website: [www.cavagnagroup.com](http://www.cavagnagroup.com)

E-mail: [omeca@cavagnagroup.com](mailto:omeca@cavagnagroup.com)



## LPG Filling Head

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



### MATERIALS AND STANDARDS

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

### FEATURES

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

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

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

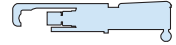
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Liquid filling product: 1-15 bar  
Filling time approx. 5 sec./kg LPG at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

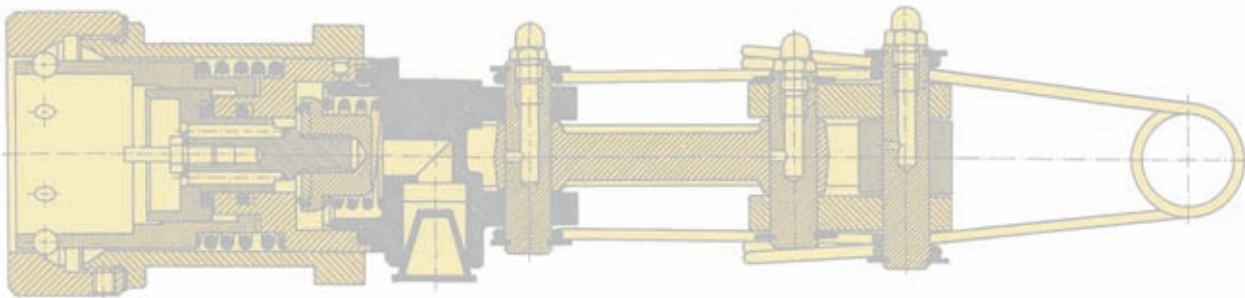
**Packing:** The Filling Heads are individually packed in boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The head outlet is attached to the valve inlet manually. While pressing the manual handle the filling heads makes a 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.



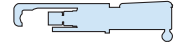
## LPG Filling Head

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



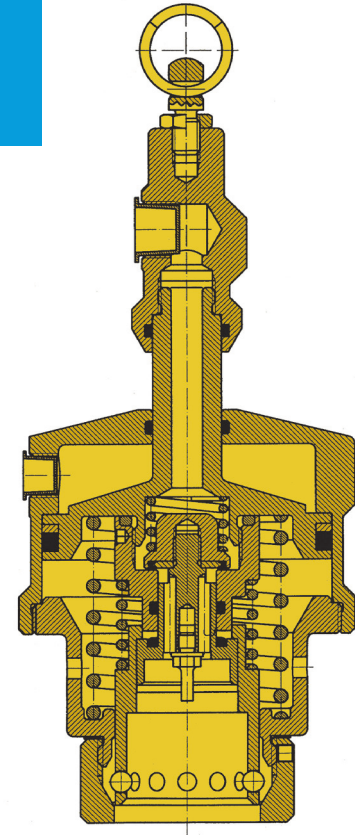
### ORDERING INFORMATION

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



## LPG Filling Head

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



### MATERIALS AND STANDARDS

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

### FEATURES

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

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

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

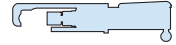
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Pneumatic supply: 4 - 6 bar.  
Liquid filling product: 1-15 bar  
Filling time approx. 5 sec./kg LPG at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

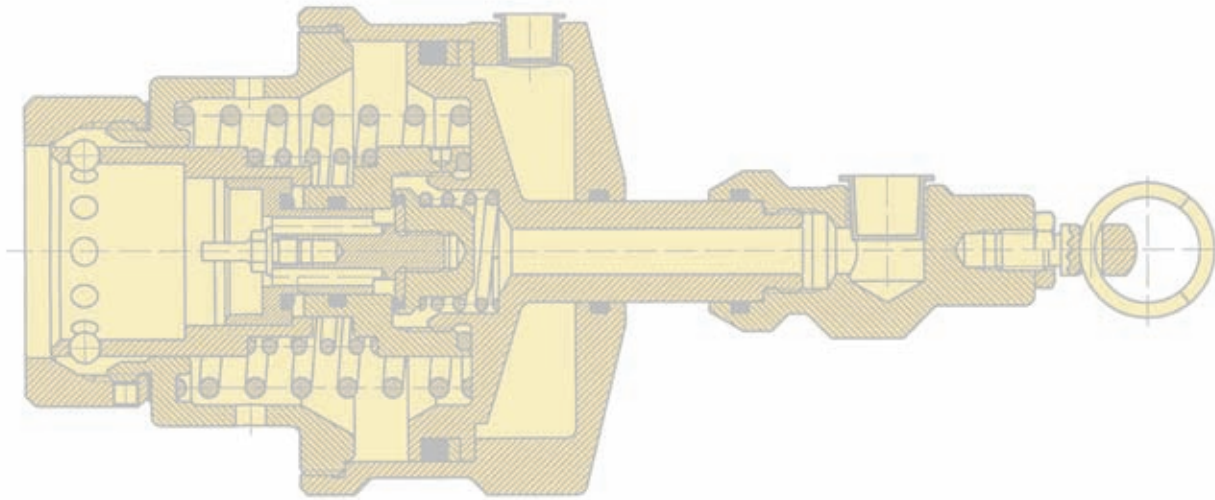
**Packing:** The Filling Heads are individually packed in boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The head outlet is attached to the valve inlet manually. Once the pneumatic pressure is applied to the head it forces the internal components of the head to move towards the valve top thereby establishing a 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.



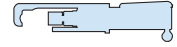
## LPG Filling Head

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



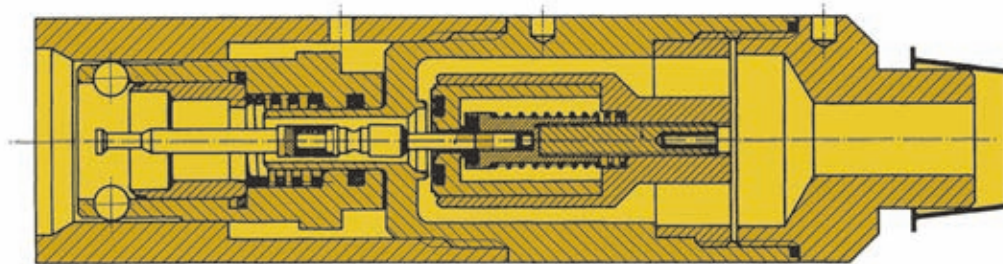
### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900020</b>	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSAN LPG VALVES 35 mm type 130B - with or without SRV
<b>6882900021</b>	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSAN LPG VALVES 35 mm type 130B - with or without SRV
<b>6882900023</b>	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSANOVA LPG VALVES 19 mm type 130L - with or without SRV
<b>6882900024</b>	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSANOVA LPG VALVES 19 mm type 130L - with or without SRV
<b>6882900027</b>	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSANOVA LPG VALVES 16 mm type 176A and 130K, with or without SRV
<b>6882900022</b>	LPG: ISO 228/1 - G3/8 AIR: ISO 228/1 - G1/4	KOSANOVA LPG VALVES 16 mm type 176A and 130K, with or without SRV



## 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.

### FEATURES

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

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

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

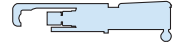
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Liquid filling product: 1-15 bar.  
Filling time approx. 5 sec./kg LPG at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

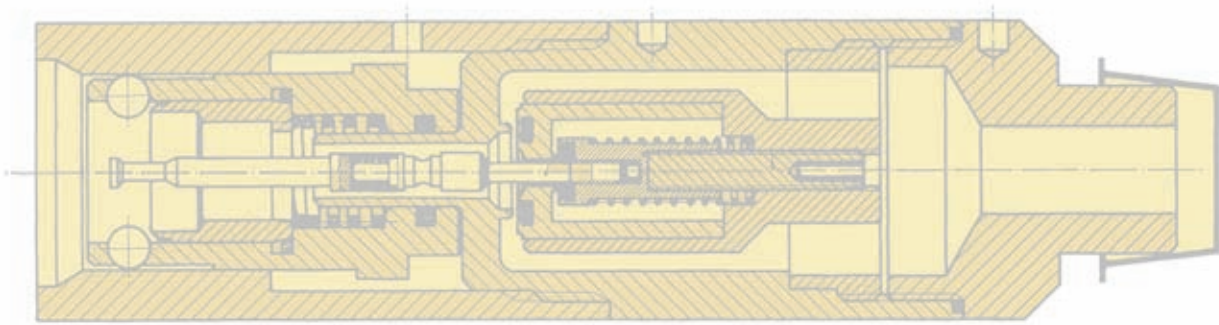
**Packing:** The Filling Heads are individually packed in boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The head outlet is attached firmly to the valve inlet manually. By applying the LPG filling pressure to the filling head, the head is locked 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.



## LPG Filling Head

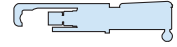
*for LPG Valves 16 mm Kosanova  
Manually Operated*



### ORDERING INFORMATION

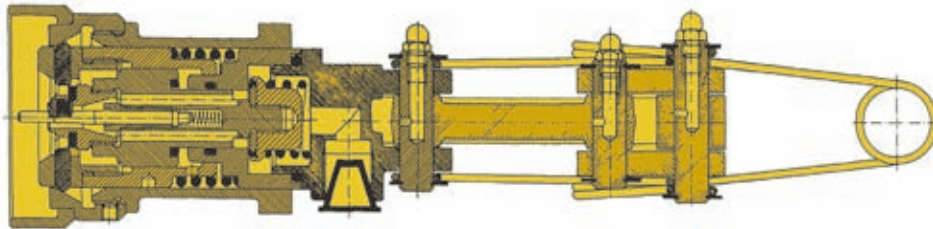
REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900025</b>	W 21,8 x 1/14 LH	KOSANOVA LPG VALVES type 176A, 16 mm with and without SRV
<b>6882900026</b>	ISO 228/1 - G1/4	KOSANOVA LPG VALVES type 176A, 16 mm with and without SRV





## LPG Filling Head

*for LPG Valves 20, 21, 22, 25.6, 27 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:** ISO 228/1-G3/8 or W21,8 x 1/14 LH

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

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

**Marking:** The following information is marked on the Filling Head:

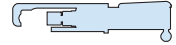
- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

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

**Function and** The Filling Head is easy to operate.

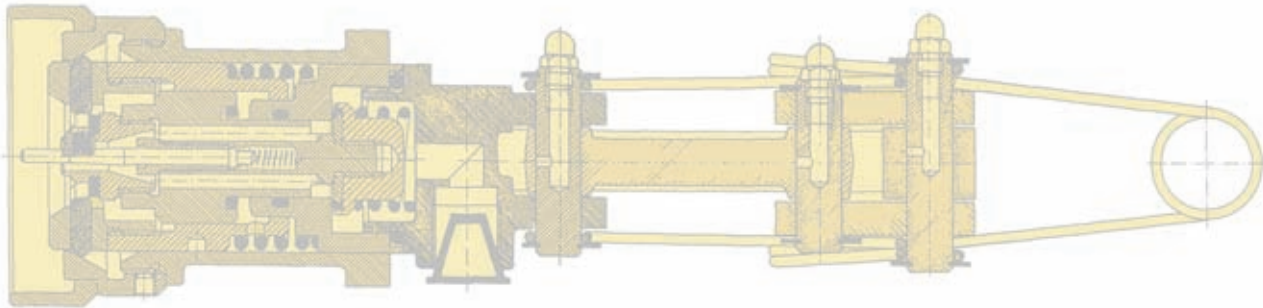
**Maintenance:** The head outlet is attached to the valve inlet manually. While pressing the manual handle the filling heads makes a leak tight connection to the valve then opens the valve spindle and the gas starts to flow. When the cylinder is full the filling is stopped via the scale system. By moving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

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



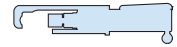
## LPG Filling Head

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



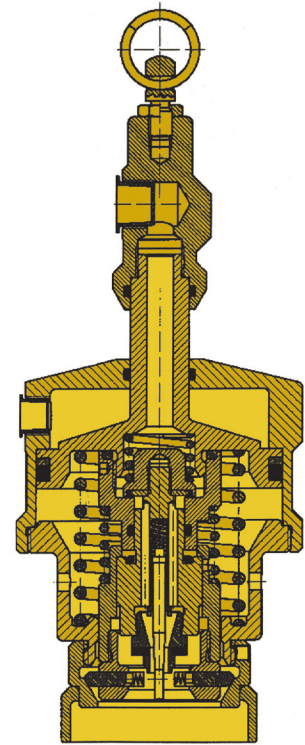
### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>688290009</b>	ISO 228/1 - G3/8	COMPACT LPG VALVES 20 mm type 186A - with and without SRV
<b>688290010</b>	W 21,8 x 1/14 LH	COMPACT LPG VALVES 20 mm type 186A - with and without SRV
<b>688290011</b>	W 21,8 x 1/14 LH	COMPACT LPG VALVES 20 mm type 186A050 - with big SRV
<b>688290012</b>	ISO 228/1 - G3/8	COMPACT LPG VALVES 27 mm type 186C (SHELL) - with and without SRV
<b>688290013</b>	ISO 228/1 - G3/8	COMPACT LPG VALVES 22 mm type 186G - with and without SRV
<b>688290014</b>	W 21,8 x 1/14 LH	COMPACT LPG VALVES 22 mm type 186G - with and without SRV
<b>688290015</b>	ISO 228/1 - G3/8	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
<b>688290016</b>	W 21,8 x 1/14 LH	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
<b>688290017</b>	DIN 259-1/2" NPT	COMPACT LPG VALVES 21 mm type 186H - with and without SRV
<b>688290018</b>	ISO 228/1 - G3/8	COMPACT LPG VALVES 25.6 mm type 186 - with and without SRV



## LPG Filling Head

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



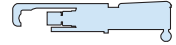
### MATERIALS AND STANDARDS

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

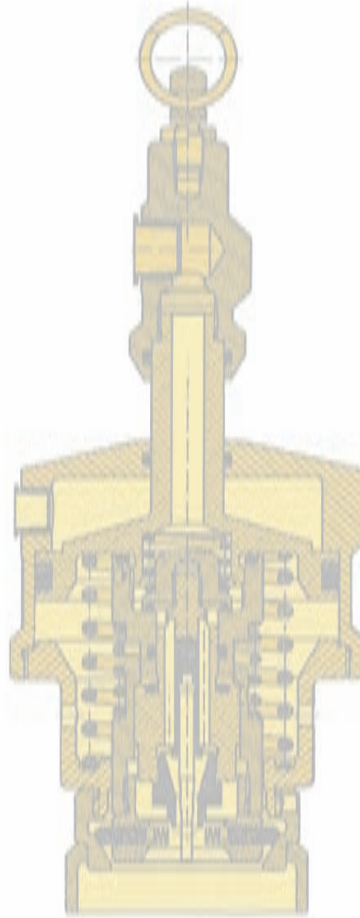
1. Balanced jig for easy suspension between filling operations.
2. Easy to connect and disconnect. Filling is initiated by opening of the pneumatic air supply.
3. Slim design makes it easy to handle and it fits easily inside any shroud.

- Inlet connection:** ISO 228/1-G3/8  
Pneum. air: ISO 228/1-G1/4
- Outlet connection:** Connects to Compact LPG valves 20, 21, 22 and 26.6 mm with and without SRV.
- Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Pneumatic supply: 4 - 6 bar.  
Liquid filling product: 1-15 bar  
Filling time approx. 2.5 sec./kg LPG at 7 bar differential pressure.
- Marking:** The following information is marked on the Filling Head:
- Cavagna Group logo.
  - Month and year of production.
  - The code number of the Filling Head.
- Packing:** The Filling Heads are individually packed in boxes with instructions.
- Function and Maintenance:** The Filling Head is easy to operate. The head outlet is attached to the valve inlet manually. Once the pneumatic pressure is applied to the head it forces the internal components of the head to move towards the valve top thereby establishing a 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  $\varnothing$  valves outlets. Specify type of compact valve when ordering.



## LPG Filling Head

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

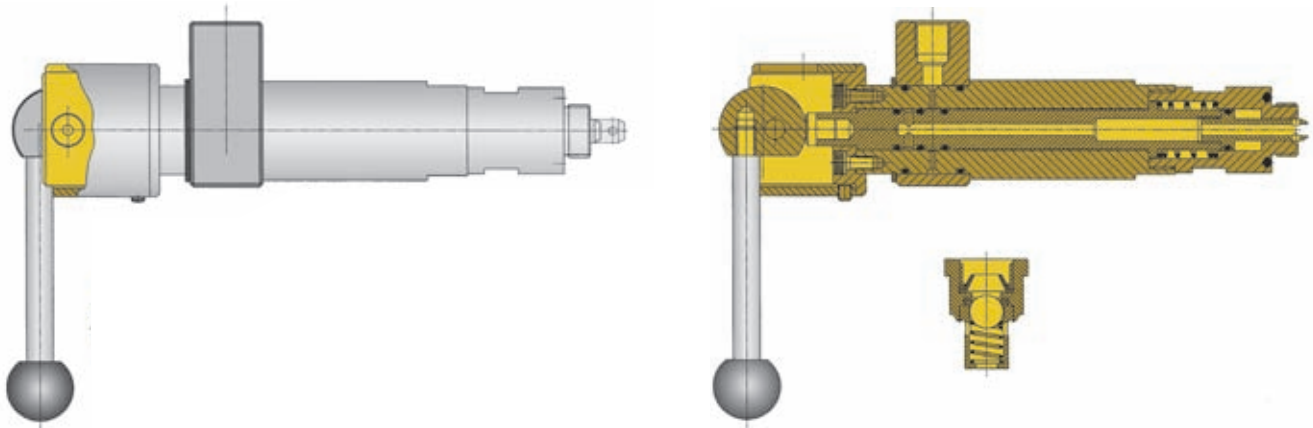


### ORDERING INFORMATION

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



## LPG Filling Head for Camping Valves Manually Operated



### MATERIALS AND STANDARDS

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

### FEATURES

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

### COLOUR

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

**Inlet connection:** LPG: 1/4" GAS.

**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:** 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.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code no of the Filling Head.

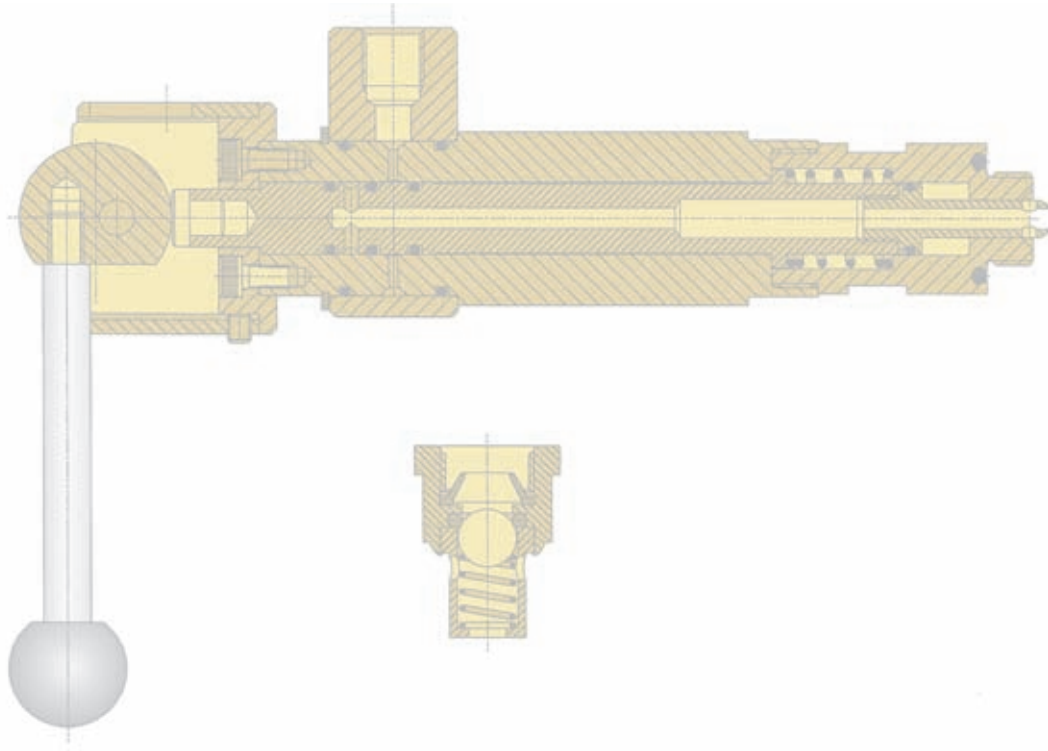
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

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

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

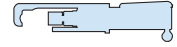


## LPG Filling Head for Camping Valves Manually Operated

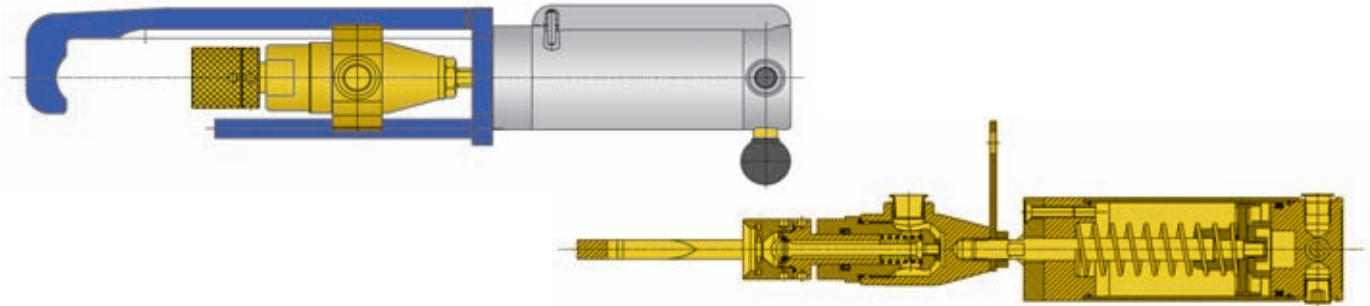


### ORDERING INFORMATION

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



## LPG Filling Head for Hand wheel Valves Semi-automatic Operated



### MATERIALS AND STANDARDS

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

### FEATURES

1. Insignificant loss of product (1 cm<sup>3</sup>) 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.

### COLOUR

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

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

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

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

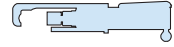
**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

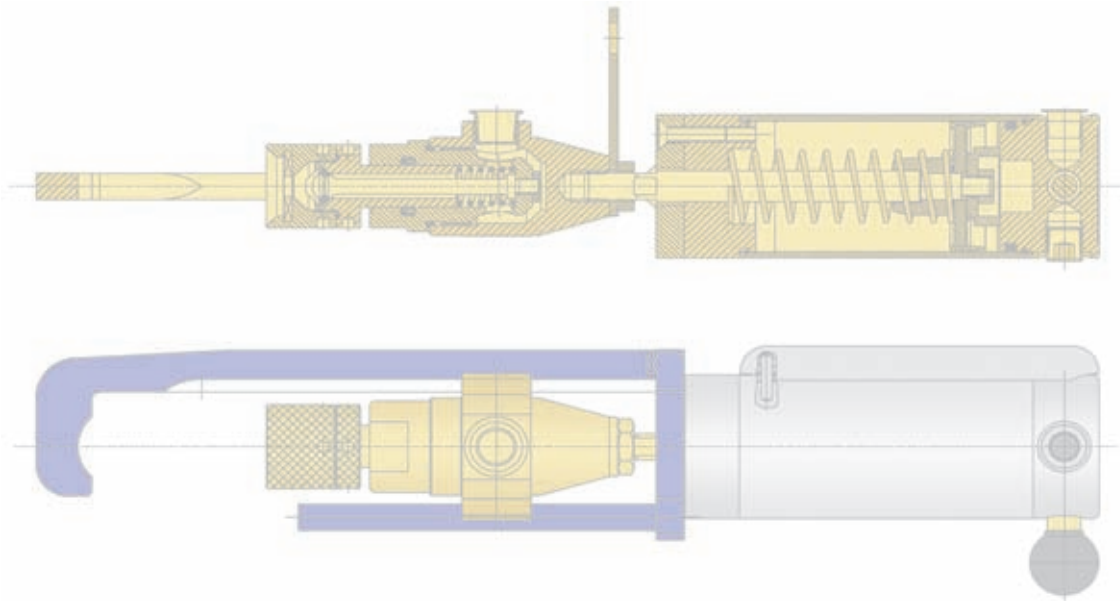
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a 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 hand wheel valves without SRV.



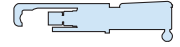
**LPG Filling Head**  
*for Hand wheel Valves*  
*Semi-automatic Operated*



**ORDERING INFORMATION**

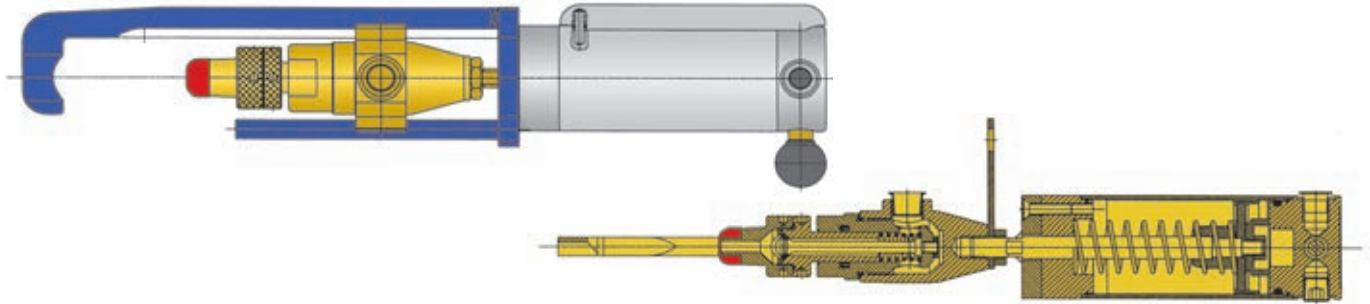
REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900042</b>	LPG 1/4" AIR 3/8"	Standard Hand wheel male outlet without SRV





## LPG Filling Head

*for Hand wheel Valves, POL outlet*  
**Semi-automatic Operated**



### MATERIALS AND STANDARDS

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

### FEATURES

1. Insignificant loss of product (1 cm<sup>3</sup>) 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.

### COLOUR

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

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

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

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

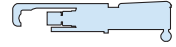
**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

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

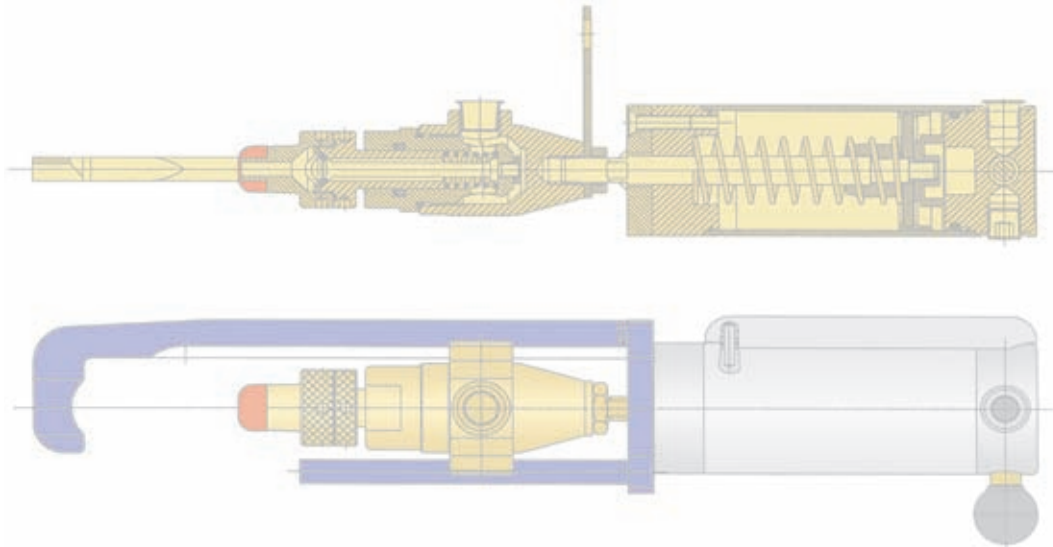
**Function and Maintenance:** The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a 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 Hand wheel POL type of valves. Specify valve type and outlet when ordering.



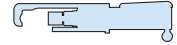
## LPG Filling Head

for Hand wheel Valves, POL outlet  
Semi-automatic Operated

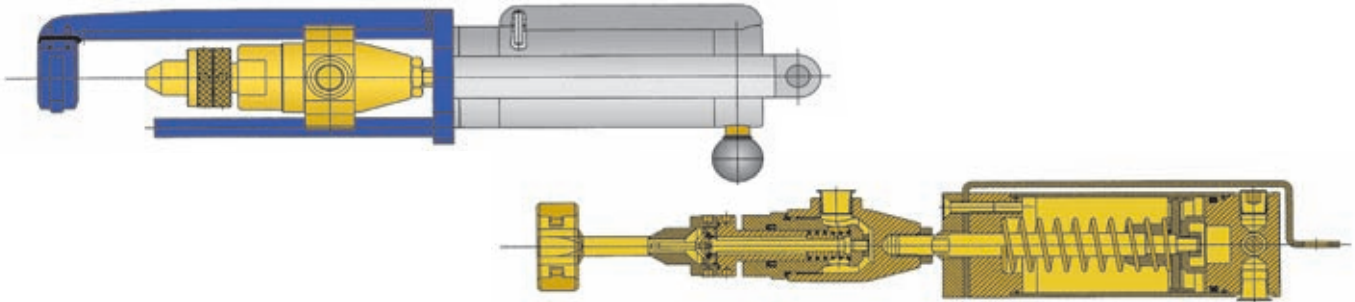


### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900044</b>	LPG 1/4" NPT AIR 3/8" NPT	Female POL thread valves with and without SRV
<b>6882900133</b> (left hand version)	LPG 1/4" NPT AIR 3/8" NPT	Female POL thread valves with and without SRV



## LPG Filling Head for Bayonet Valves Semi-automatic Operated



### MATERIALS AND STANDARDS

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

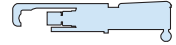
### FEATURES

1. Insignificant loss of product (1 cm<sup>3</sup>) 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.

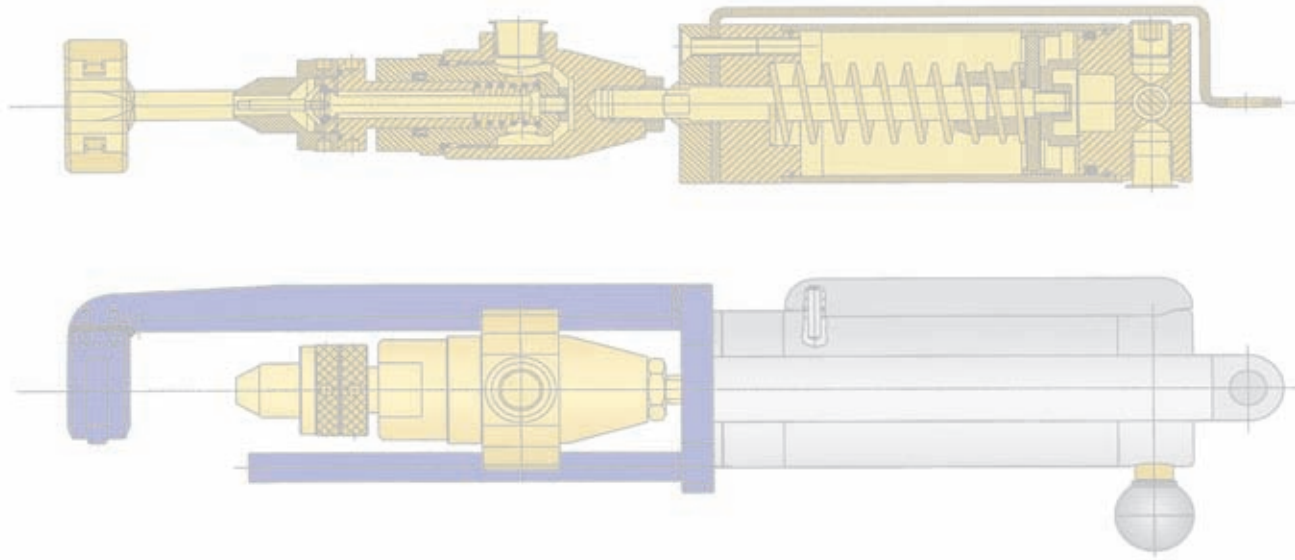
### COLOUR

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

- Inlet connection:** LPG: 1/4" NPT.  
Pneumatic air :3/8" NPT.
- 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.
- Marking:** The following information is marked on the Filling Head:
- Cavagna Group logo.
  - Month and year of production.
  - The code no of the Filling Head.
- 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:** Omeca valves 66-0-290-0136, 66-0-290-0145.



## LPG Filling Head for Bayonet Valves Semi-automatic Operated

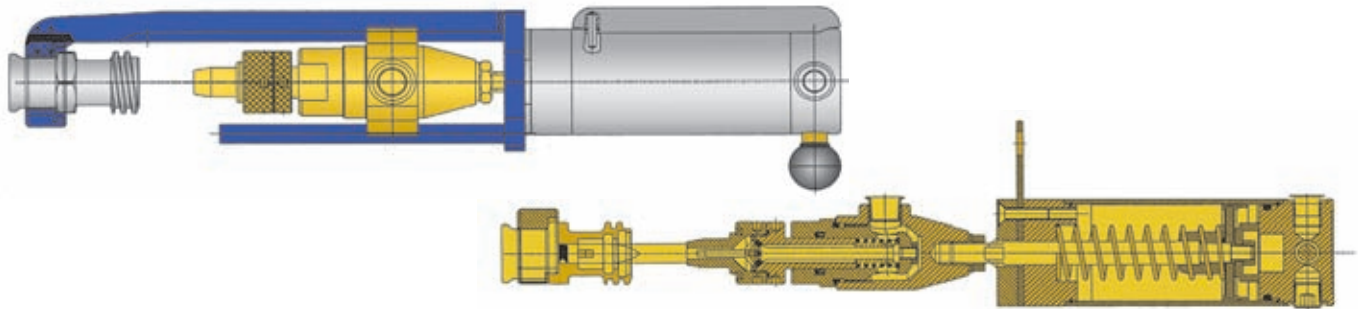


### ORDERING INFORMATION

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



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



### MATERIALS AND STANDARDS

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

### FEATURES

1. Insignificant loss of product (1 cm<sup>3</sup>) 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.

### COLOUR

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

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

**Outlet connection:** Connects to Omega Coupling 66-0-290-1024

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

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code no of the Filling Head.

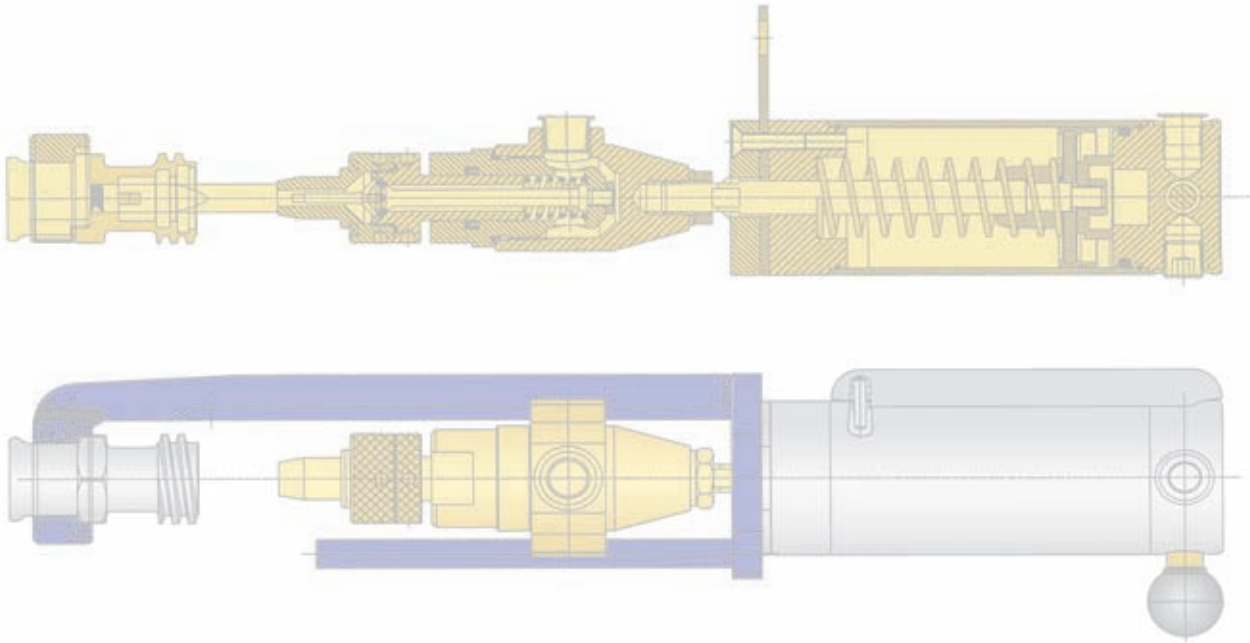
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The connector at the end of the clamping brace is placed around the neck of the Coupling. Once the Filling Head outlet is aligned with the Coupling outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the Coupling outlet thereby obtaining a 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 Coupling. All rubber seals inside the gas sections as well as the complete pneumatic cylinder can be exchanged.

**Suitable for:** Omega valve 66-0-290-1024 (see illustration above).

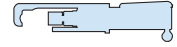


**LPG Filling Head**  
*for Coupling 66-0-290-1024*  
*Semi-automatic Operated*



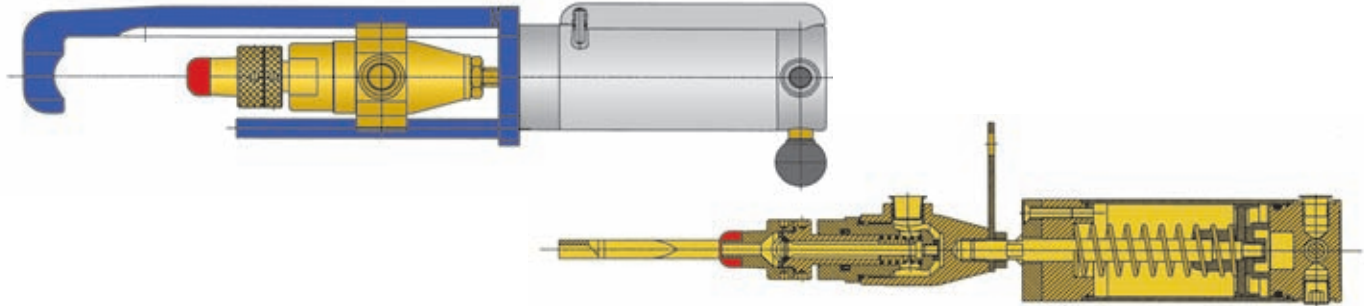
**ORDERING INFORMATION**

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



## LPG Filling Head

*for Hand wheel Valves, OPD - type  
Semi-automatic Operated*



### MATERIALS AND STANDARDS

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

### FEATURES

1. Insignificant loss of product (1 cm<sup>3</sup>) 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.

### COLOUR

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

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

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

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

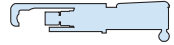
**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

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

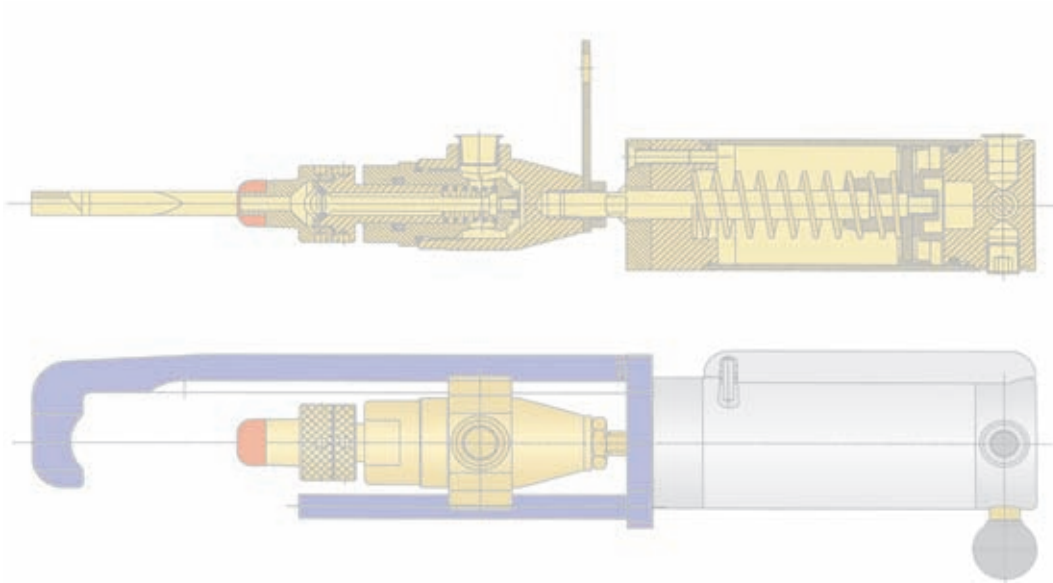
**Function and Maintenance:** The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a 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.



## LPG Filling Head

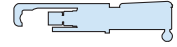
for Hand wheel Valves, OPD - type  
Semi-automatic Operated



### ORDERING INFORMATION

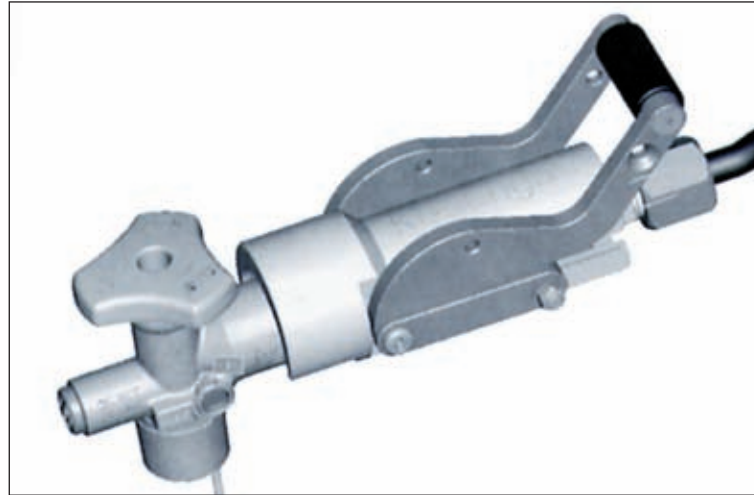
REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900050</b>	LPG 1/4" AIR 3/8"	OPD - female POL thread valve with check-lock with and without SRV





# LPG Filling Head

for Hand wheel Valves  
with ACME Thread  
Manually Operated



## APPLICATIONS

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

## FEATURES

Safe operation, easily connected and manually operated.

## SPECIFICATIONS

**Inlet connection:** 1/4" NPT male thread

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

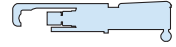
**Supply pressures:** LPG, pressurized air or vacuum.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

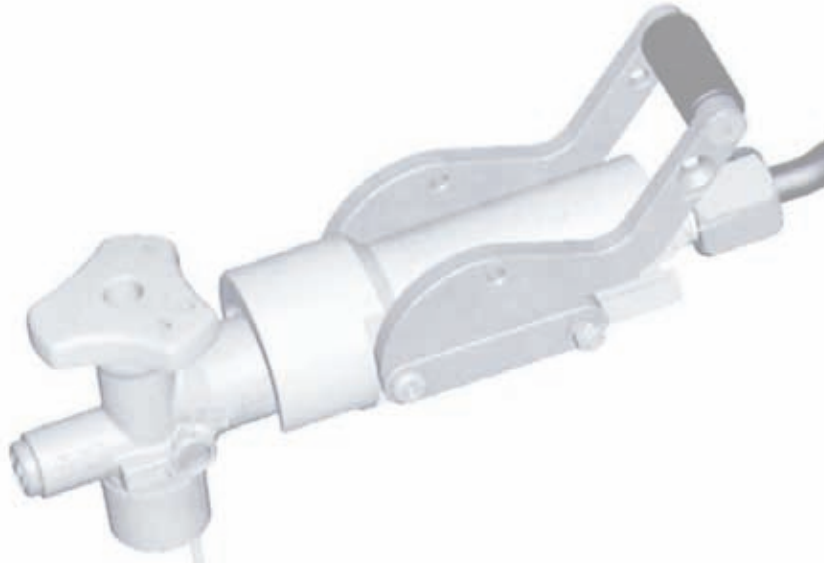
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The filling adapter is manually connected to a standard hand wheel 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.



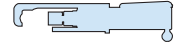
## **LPG Filling Head**

*for Hand wheel Valves  
with ACME Thread  
Manually Operated*

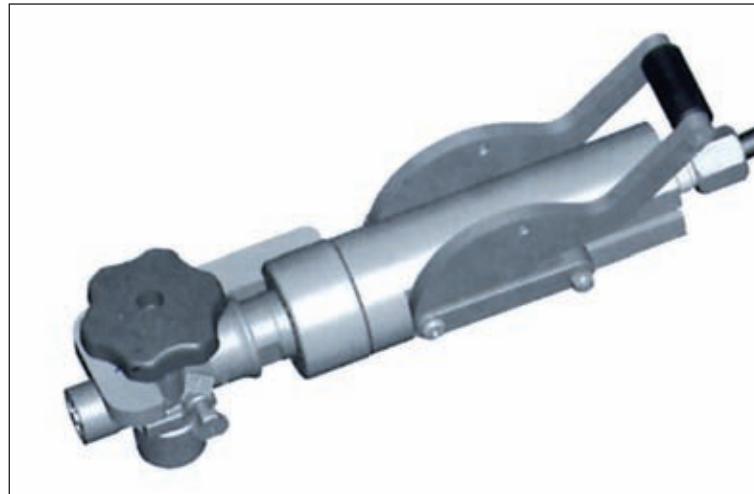


### **ORDERING INFORMATION**

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



## LPG Filling Head for Hand wheel POL Valves Manually Operated



### APPLICATIONS

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

### FEATURES

Safe operation, easily connected and manually operated.

### SPECIFICATIONS

**Inlet connection:** 1/4" NPT male thread

**Outlet connection:** Connects to most standard POL valves.

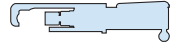
**Supply pressures:** The Filling Head is designed to operate within the normal LPG supply pressures and vacuum  
Liquid filling product: 1-15 bar.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

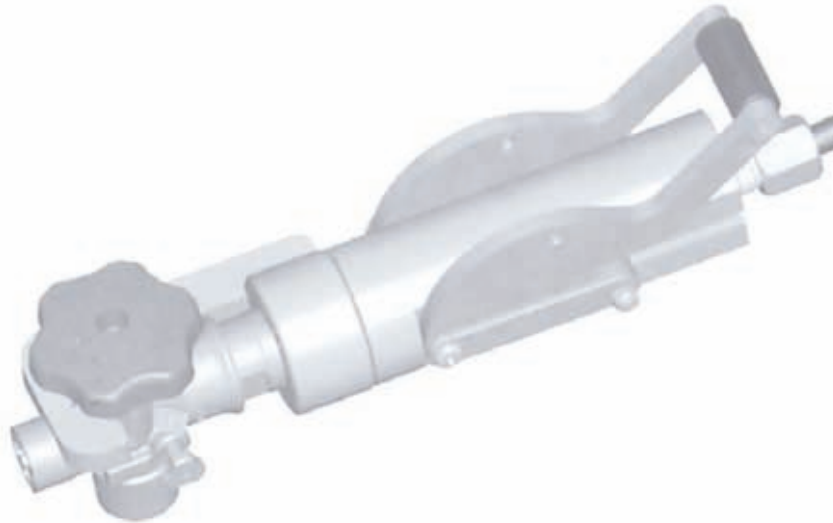
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

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



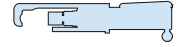
## *LPG Filling Head*

*for Hand wheel POL Valves*  
*Manually Operated*

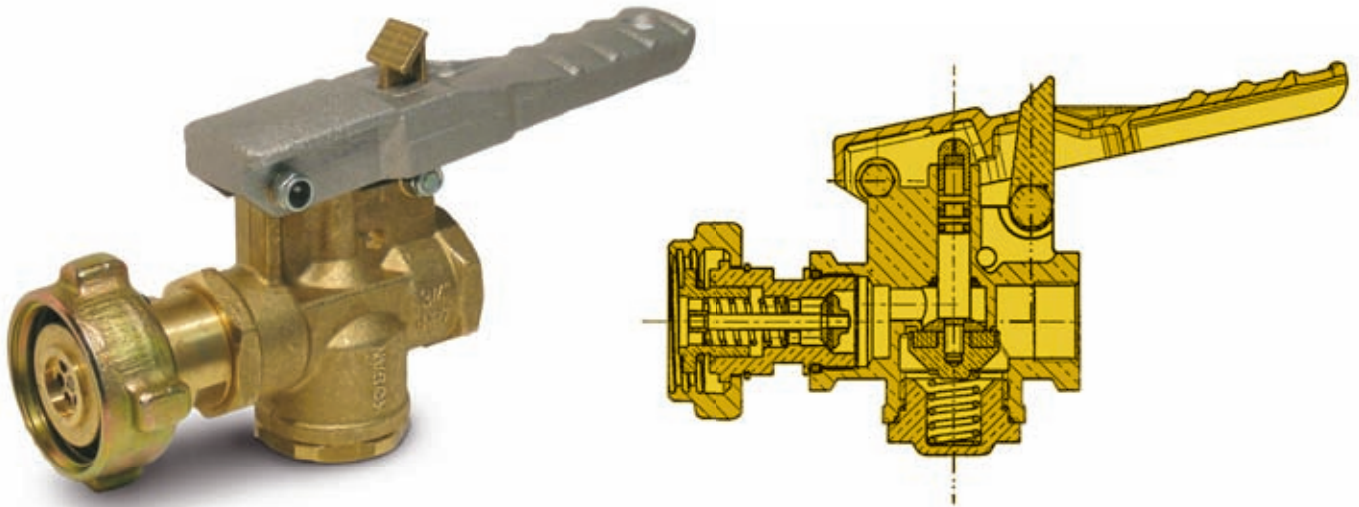


### ORDERING INFORMATION

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



## LPG Filling Head for Tank Filler Valves Manually Operated



### MATERIALS AND STANDARDS

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

### FEATURES

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

**Inlet connection:** 3/4" NPT

**Outlet connection:** 1 3/4" x 6 ACME - 2g connects to Cavagna filler valves like 66.0.290.1043, 6602901122

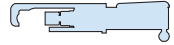
**Supply pressures:** The Filling Head is designed to operate within the normal LPG supply pressures.  
Liquid filling product: 1-15 bar.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

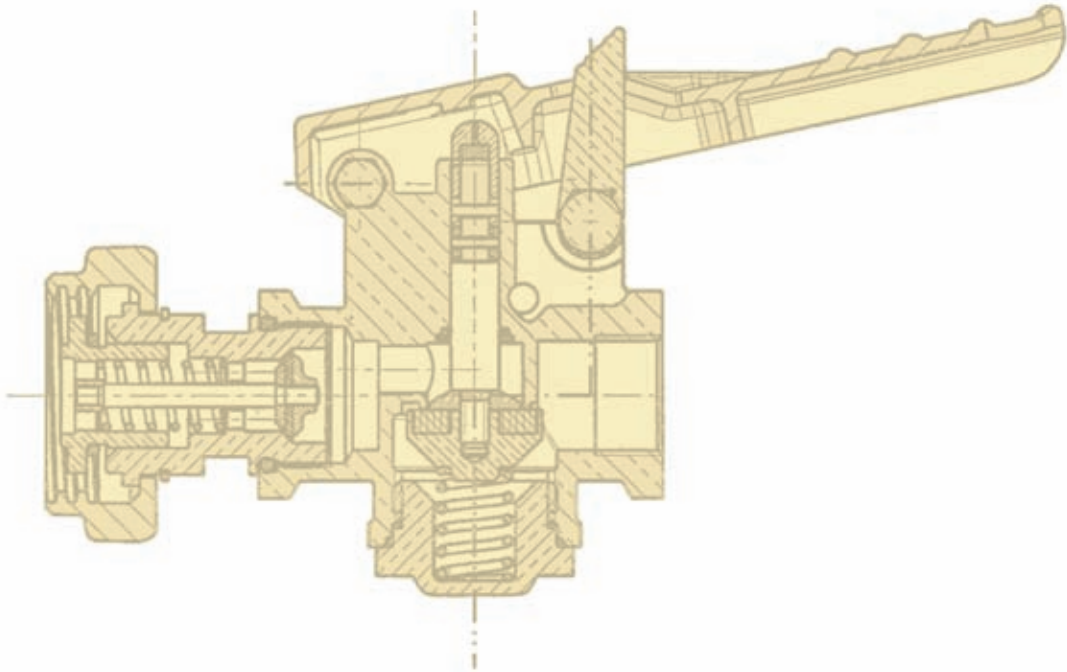
**Packing:** The Filling Heads are individually packed in boxes with instructions.

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



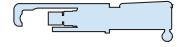
## LPG Filling Head

for Tank Filler Valves  
Manually Operated



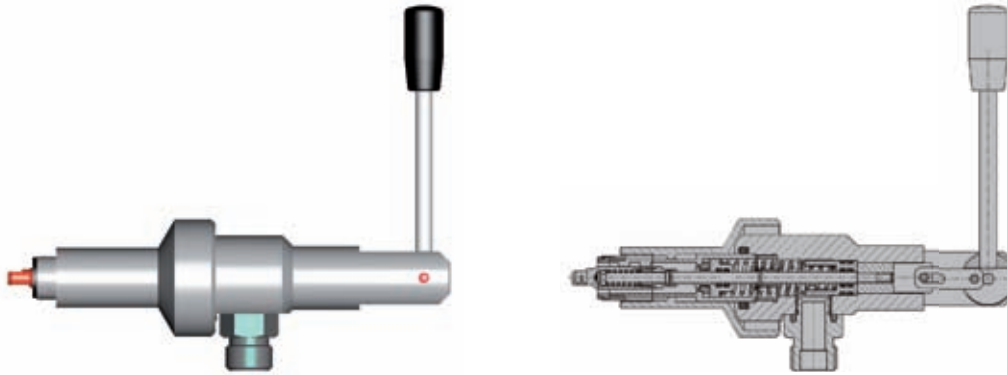
### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900057</b>	3/4" NPT	1 3/4" x 6 ACME - 2g Filler valve example 6602901043 Filler valve example 6602901122



## REFRIGERANT GAS Filling Head

*for Hand wheel Valves.  
Manually Operated,  
with Anti-filling opener.*



### 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. Limited loss of product when the gas flow is cut off and the filling head is removed from the cylinder valve.
2. Includes anti-filling device opener operating when the handle is switched to start the filling operation.
3. Connected and disconnected manually by rotating the threaded ring nut.
5. Slim design makes it easy to handle and it fits easily inside any shroud.

### COLOUR

The Filling Head is supplied with a chrome plated surface for long durability.

**Inlet connection:** Refrigerant gas: W21,7 x 1/14" RH male.

**Outlet connection:** Connects to valve outlet threads W21,7 x 1/14" RH male  
Valves with and without SRV.

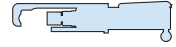
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Liquid filling product: 1-20 bar.  
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

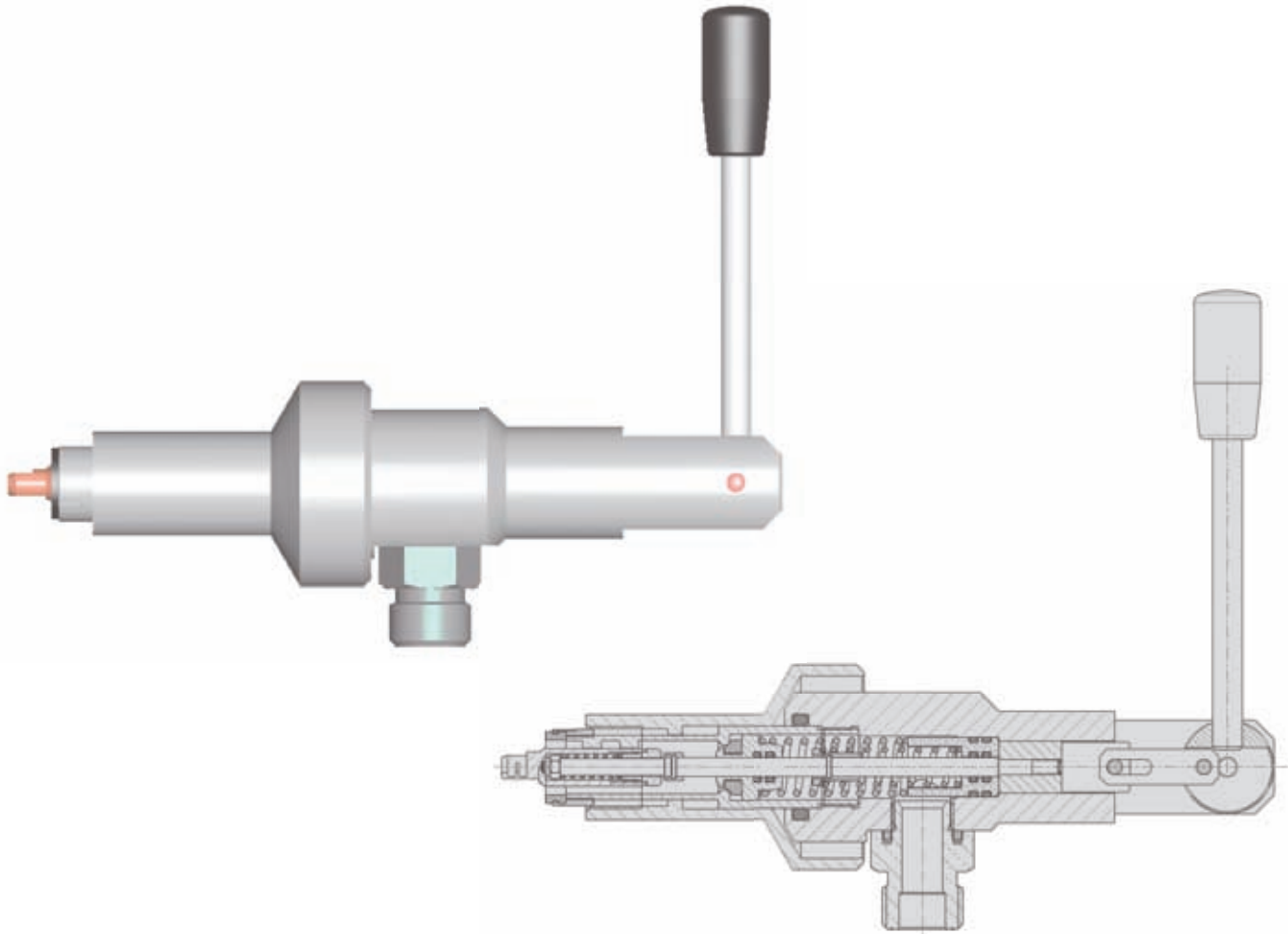
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The anti-filling opener spindle is connected to the end of the anti-filling spindle of the cylinder valve, then the ring nut threaded end is connected to the valve outlet to obtain a leak tight connection. After this the handle lever is operated and the gas will start filling the cylinder. When the cylinder is full, the handle lever is again operated to stop the filling process, and the ring nut is removed from the valve outlet. This in turn allows the anti-filling opener spindle to be disconnected and the filling head is removed from the cylinder valve. All rubber seals in contact with the gas as can be exchanged.



## REFRIGERANT GAS Filling Head

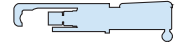
for Hand wheel Valves.  
Manually Operated,  
with Anti-filling opener.



### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900108	REFRIGERANT GAS W21,7 x 1/14" RH.	W21,7 x 1/14" RH.





## REFRIGERANT GAS Filling Head

for Hand wheel Valves.  
Manually Operated,  
with Anti-filling opener.



### 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. Limited loss of product when the gas flow is cut off and the filling head is removed from the cylinder valve.
2. Includes anti-filling device opener operating when the handle is switched to start the filling operation.
3. Connected and disconnected manually by rotating the threaded ring nut
5. Slim design makes it easy to handle and it fits easily inside any shroud.

### COLOUR

The Filling Head is supplied with a chrome plated surface for long durability.

**Inlet connection:** Refrigerant gas: G 3/8".

**Outlet connection:** Connects to valve outlet threads 1,030 x 14 NGO RH, CGA660 Valves with and without SRV.

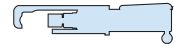
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Liquid filling product: 1-20 bar.  
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

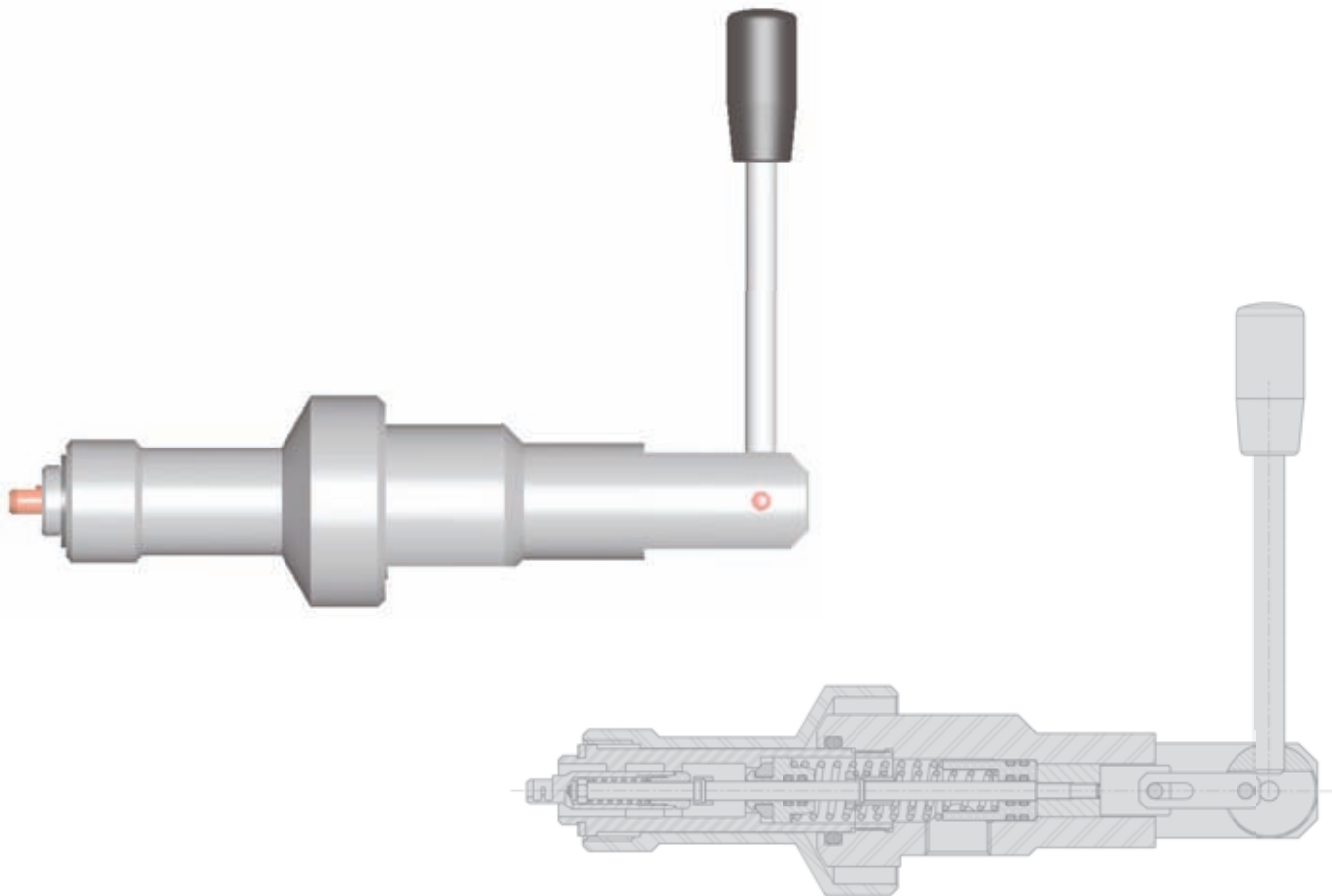
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The anti-filling opener spindle is connected to the end of the anti-filling spindle of the cylinder valve, then the ring nut threaded end is connected to the valve outlet to obtain a leak tight connection. After this the handle lever is operated and the gas will start filling the cylinder. When the cylinder is full, the handle lever is again operated to stop the filling process, and the ring nut is removed from the valve outlet. This in turn allows the anti-filling opener spindle to be disconnected and the filling head is removed from the cylinder valve. All rubber seals in contact with the gas as can be exchanged.



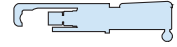
## REFRIGERANT GAS Filling Head

for Hand wheel Valves.  
Manually Operated,  
with Anti-filling opener.



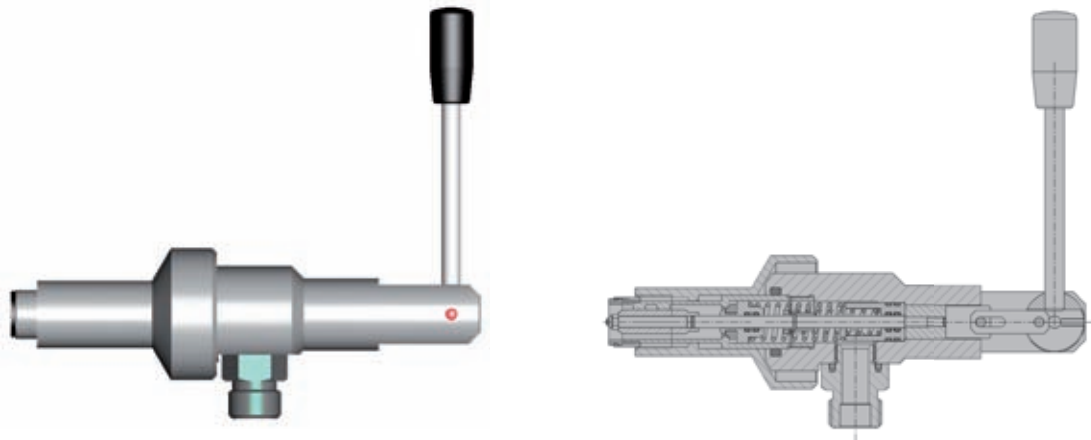
### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900114	REFRIGERANT GAS G 3/8"	1,030 x 14 NGO RH, CGA660



# REFRIGERANT GAS Filling Head

for Hand wheel 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. Limited loss of product when the gas flow is cut off and the filling head is removed from the cylinder valve.
2. Connected and disconnected manually by rotating the threaded ring nut
3. Slim design makes it easy to handle and it fits easily inside any shroud.

## COLOUR

The Filling Head is supplied with a chrome plated surface for long durability.

**Inlet connection:** Refrigerant gas: W21,7 x 1/14" RH.

**Outlet connection:** Connects to valve outlet threads W21,7 x 1/14" RH.  
Valves with and without SRV.

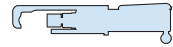
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Liquid filling product: 1-20 bar  
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

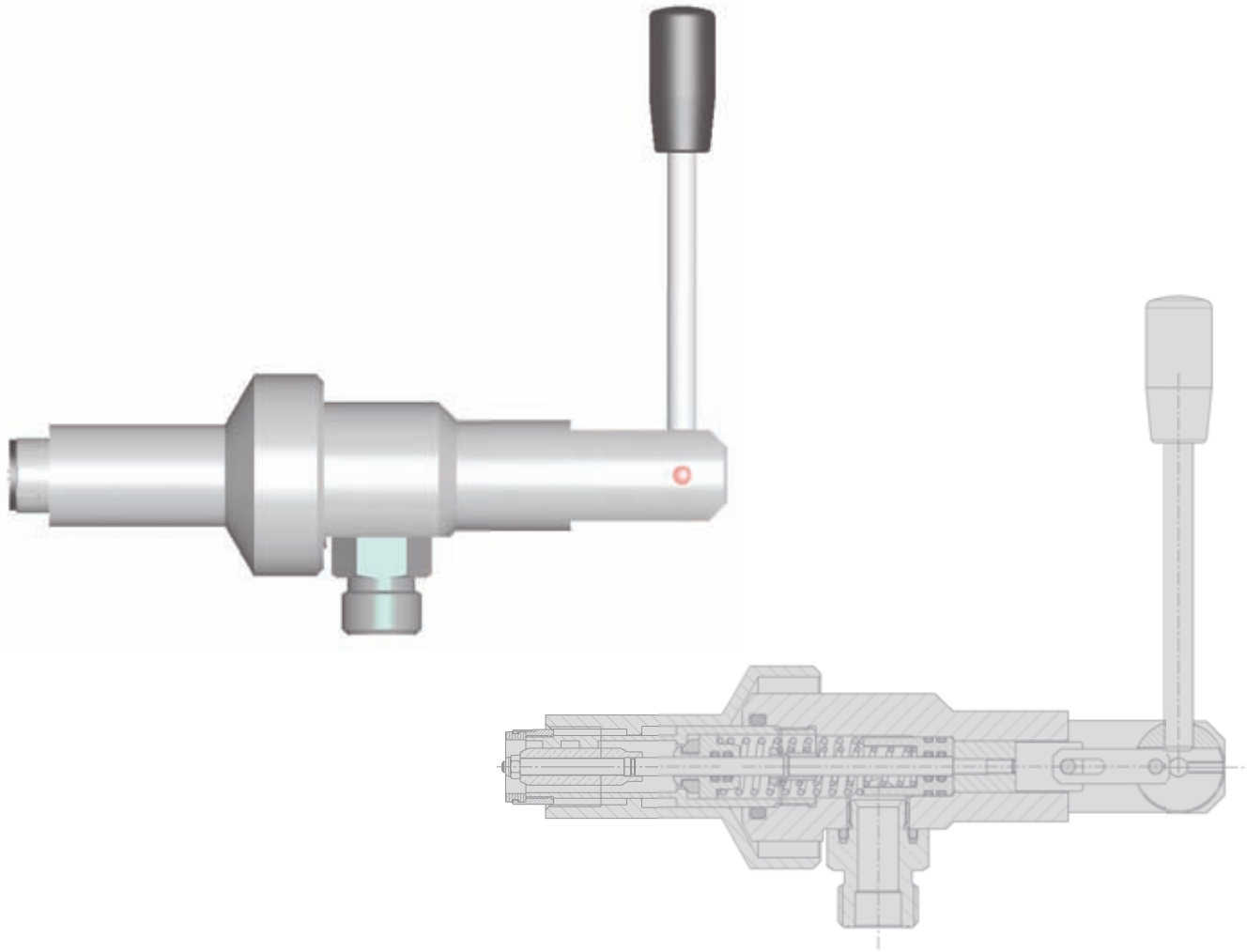
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The ring nut threaded end is connected to the valve outlet to obtain a leak tight connection. After this the handle lever is operated and the gas will start filling the cylinder. When the cylinder is full, the handle lever is again operated to stop the filling process, and the ring nut is removed from the valve outlet. All rubber seals in contact with the gas as can be exchanged.



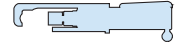
## REFRIGERANT GAS Filling Head

for Hand wheel Valves.  
Manually Operated.



### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900121</b>	REFRIGERANT GAS W21,7 x 1/14" RH.	W21,7 x 1/14" RH.



# REFRIGERANT GAS Filling Head

for Hand wheel Valves  
Semi-automatic Operated



## MATERIALS AND STANDARDS

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

## FEATURES

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

## COLOUR

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

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

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

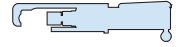
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Pneumatic supply: 6-10 bar. Liquid filling product: 1-20 bar.  
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

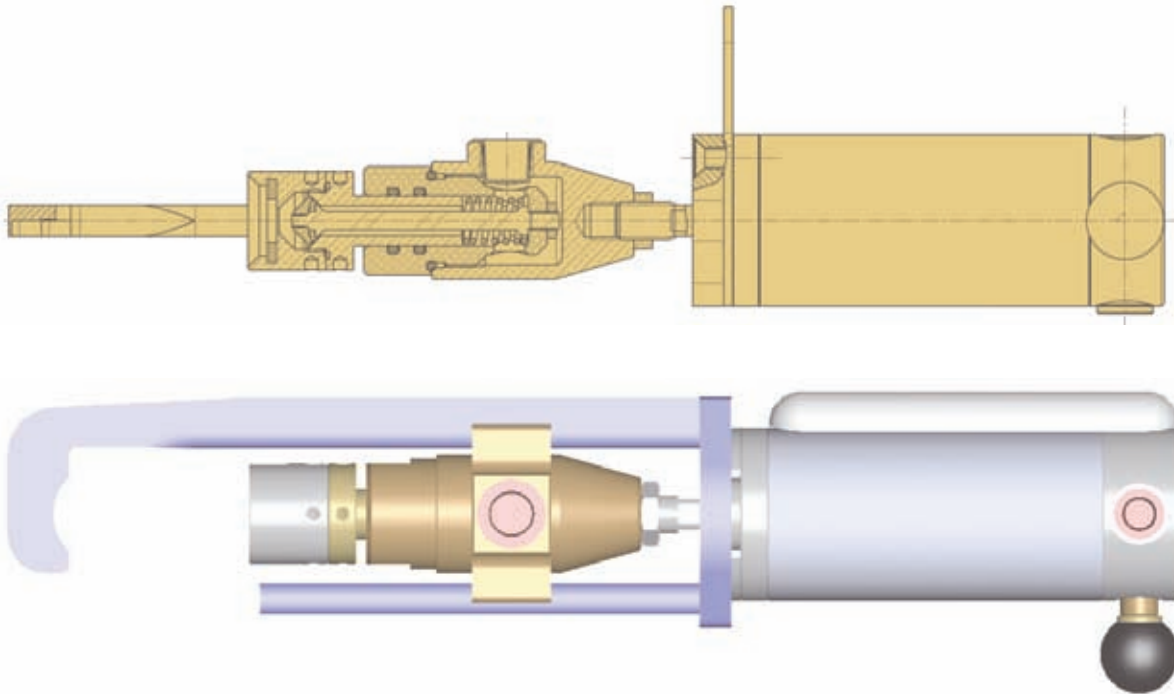
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

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



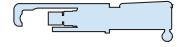
# REFRIGERANT GAS Filling Head

for Hand wheel Valves  
Semi-automatic Operated



## ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900043	REFRIGERANT GAS 1/4" AIR 3/8"	Standard Hand wheel male outlet with and without SRV



# REFRIGERANT GAS Filling Head

for Hand wheel Valves  
Semi-automatic Operated



## MATERIALS AND STANDARDS

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

## FEATURES

1. Insignificant loss of product when the gas flow is cut off and the filling head is released from the cylinder valve.
2. 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.

## COLOUR

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

**Inlet connection:** Refrigerant gas: 1/4" NPT  
Pneumatic air: 3/8" NPT.

**Outlet connection:** Connects to 1/4" SAE outlet valve male threads.  
Valves with and without SRV.

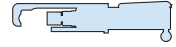
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Pneumatic supply: 6-10 bar. Liquid filling product: 1-20 bar  
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

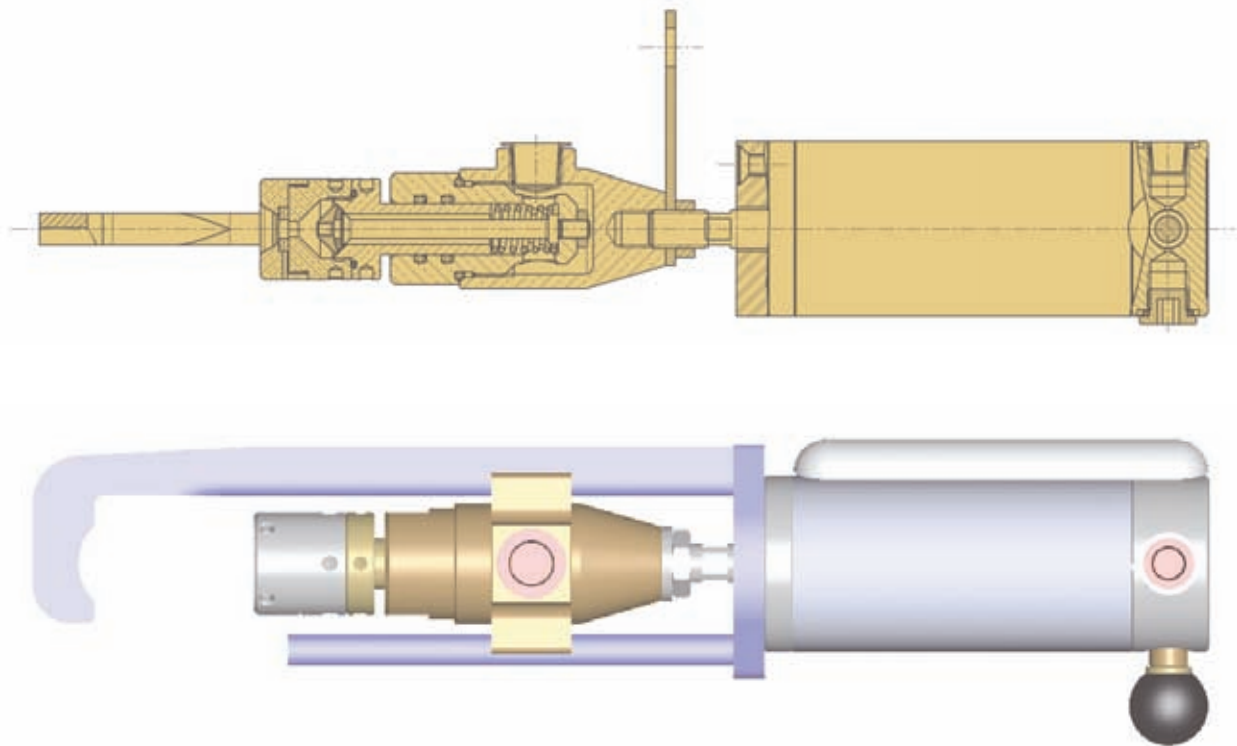
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve. Once the Filling Head outlet is aligned with the Cylinder valve outlet, the ball knob is pushed to allow the compressed air to fill the pneumatic cylinder. This forces the Filling head outlet to attach the cylinder valve outlet thereby obtaining a leak tight connection. Then simultaneously the gas seal opens initiating the flow of refrigerant gas into the cylinder. 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 disconnecting the filling head outlet from the cylinder valve. All rubber seals in contact with the gas as well as the complete pneumatic cylinder can be exchanged.



# REFRIGERANT GAS Filling Head

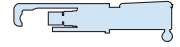
for Hand wheel Valves  
Semi-automatic Operated



## ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900105	REFRIGERANT GAS 1/4" AIR 3/8"	1/4" SAE Flare valve outlet with and without SRV





# REFRIGERANT GAS Filling Head

for Hand wheel Valves  
Semi-automatic Operated,  
with Anti-filling opener.



## MATERIALS AND STANDARDS

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

## FEATURES

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

## COLOUR

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

**Inlet connection:** Refrigerant gas: 1/4" NPT  
Pneumatic air: 3/8" NPT.

**Outlet connection:** Connects to standard outlet valve male threads such as G1, G2, G4, G5, G6, G8, G11, G12 acc. to EN12864. Valves with and without SRV.

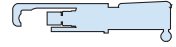
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Pneumatic supply: 6-10 bar. Liquid filling product: 1-20 bar  
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

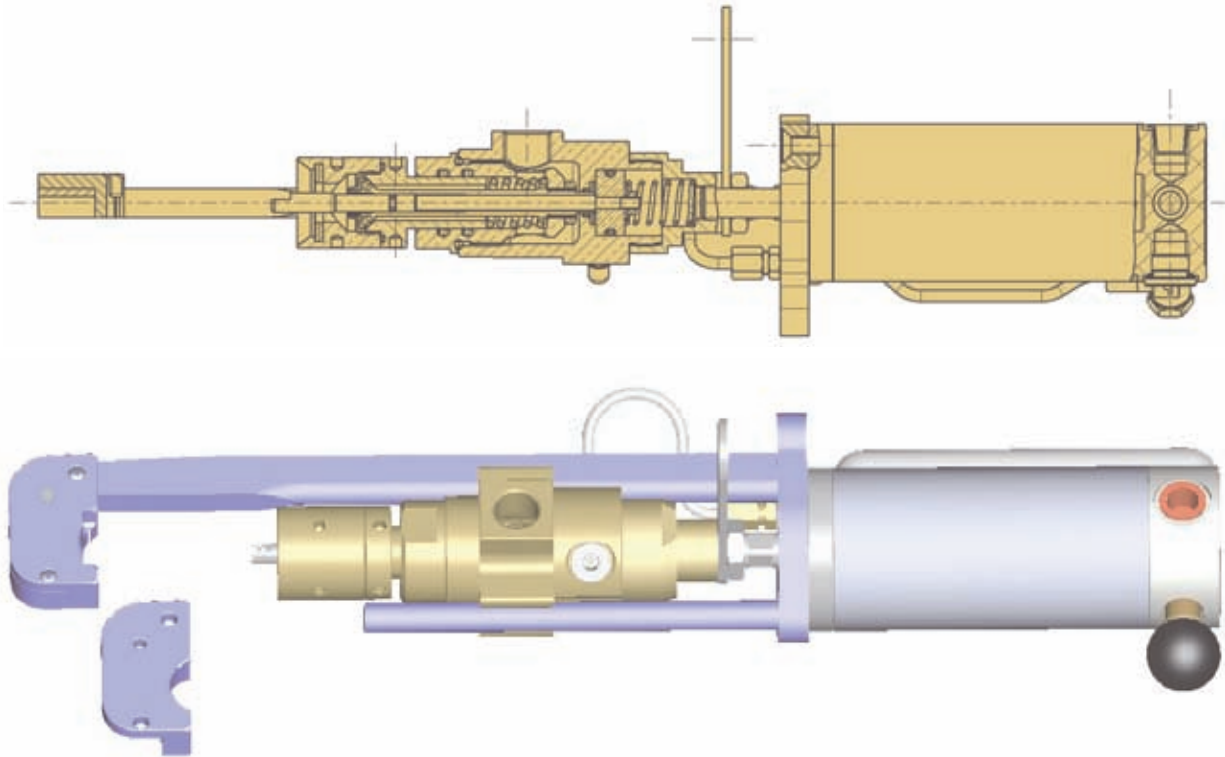
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve while the central anti-filling opener pin is connected to the end of the anti-filling device spindle. As the Filling Head outlet is aligned with the 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. Then the anti-filling device is opened and simultaneously the gas seal opens initiating the flow of refrigerant gas into the cylinder. 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, closing the anti-filling device disconnecting the filling head outlet from the cylinder valve. All rubber seals in contact with the gas as well as the complete pneumatic cylinder can be exchanged.



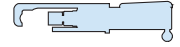
## REFRIGERANT GAS Filling Head

for Hand wheel Valves  
Semi-automatic Operated,  
with Anti-filling opener.



### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
<b>6882900065</b>	REFRIGERANT GAS 1/4" AIR 3/8"	Standard Hand wheel male outlet with and without SRV
<b>6882900127</b> (Stronger version)	REFRIGERANT GAS 1/4" AIR 3/8"	Standard Hand wheel male outlet with and without SRV



## REFRIGERANT GAS Filling Head

for Hand wheel Valves.  
Semi-automatic Operated,  
with Anti-filling opener.



### MATERIALS AND STANDARDS

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

### FEATURES

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

### COLOUR

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

**Inlet connection:** Refrigerant gas: 1/4" NPT  
Pneumatic air: 3/8" NPT.

**Outlet connection:** Connects to outlet valve male thread 1,030"-14 NGO-RH-EXT, CGA660.  
Valves with and without SRV.

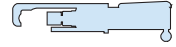
**Supply pressures:** The Filling Head is designed to operate within the normal supply pressures.  
Pneumatic supply: 6-10 bar. Liquid filling product: 1-20 bar  
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

**Marking:** The following information is marked on the Filling Head:

- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

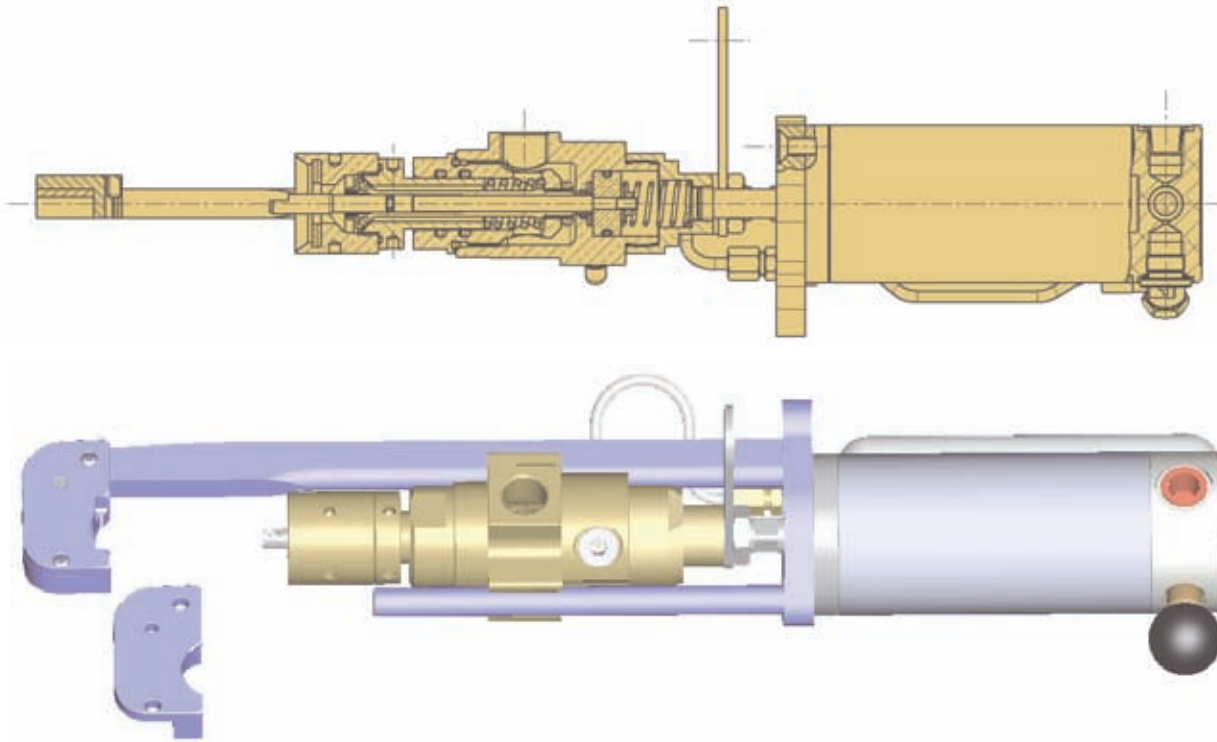
**Packing:** The Filling Heads are individually packed in cardboard boxes with instructions.

**Function and Maintenance:** The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve while the central anti-filling opener pin is connected to the end of the anti-filling device spindle. 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. Then the anti-filling device is opened and simultaneously the gas seal opens initiating the flow of refrigerant gas into the cylinder. 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, closing the anti-filling device disconnecting the filling head outlet from the cylinder valve. All rubber seals in contact with the gas as well as the complete pneumatic cylinder can be exchanged.



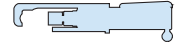
## REFRIGERANT GAS Filling Head

for Hand wheel Valves.  
Semi-automatic Operated,  
with Anti-filling opener.



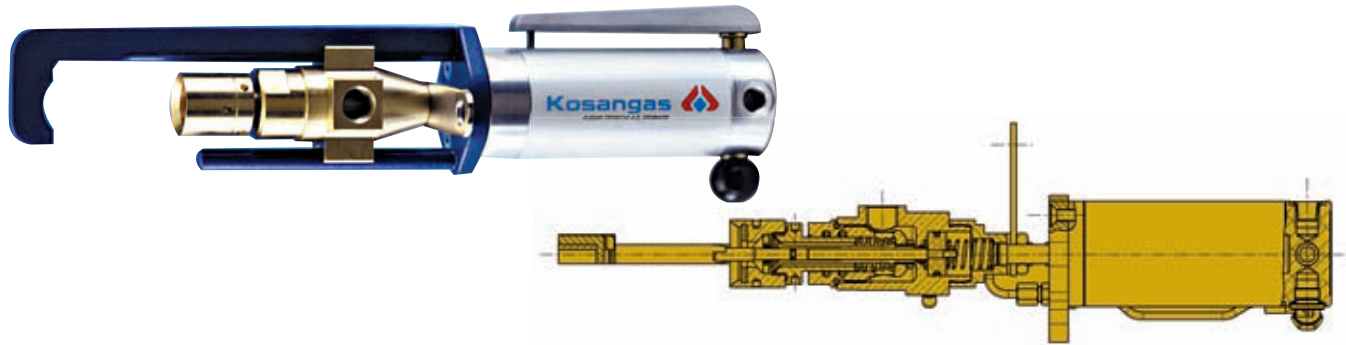
### ORDERING INFORMATION

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900128	REFRIGERANT GAS 1/4" AIR 3/8"	1,030"-14 NGO-RH-EXT, CGA660 male outlet with and without SRV



## REFRIGERANT GAS Filling Head

*for Hand wheel Valves.  
Semi-automatic Operated,  
with separate Anti-filling opener  
for evacuation of the fill line.*



### MATERIALS AND STANDARDS

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

### FEATURES

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

### COLOUR

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

**Inlet connection:** Refrigerant gas: 1/4" NPT ; Pneumatic air: 3/8" NPT.

**Outlet connection:** Connects to standard outlet valve male threads such as G1, G2, G4, G5, G6, G8, G11, G12 acc. to EN12864.

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

**Marking:** The following information is marked on the Filling Head:

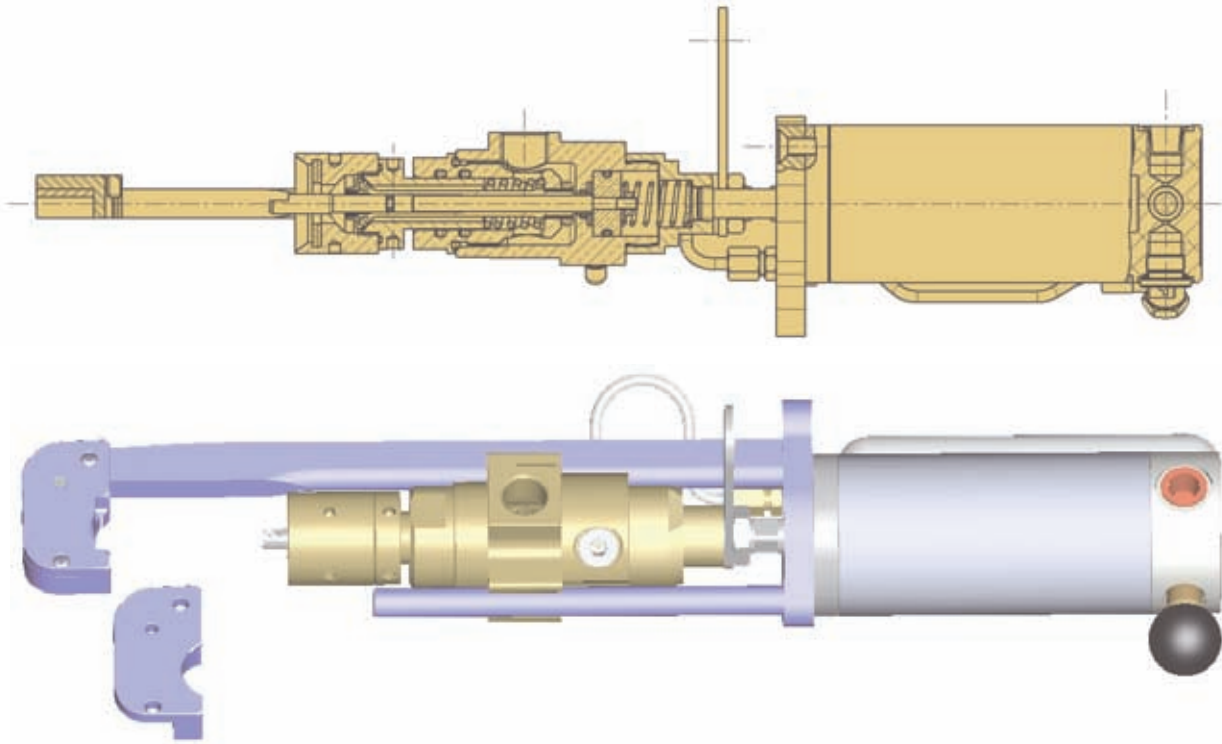
- Cavagna Group logo.
- Month and year of production.
- The code number of the Filling Head.

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

**Function and Maintenance:** The Filling Head is easy to operate. In this configuration its gas Inlet must be connected to a vacuum purging line as well as to the refrigerant fill line. The clamping brace is placed around the neck of the cylinder valve while the central anti-filling opener pin is connected to the end of the anti-filling device spindle. 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 with a leak tight connection. Next step is to purge the fill line and the valve outlet. Then the control valve on the filling head centre is switched and the cylinder valve is opened to allow the filling to start. After completing the filling operation the cylinder valve is closed and the control valve on the filling head centre is again switched to close the flow of refrigerant gas and start purging the fill line and the valve outlet. Then the handle on the side of the pneumatic cylinder is pushed and the air pressure is released thereby disconnecting the filling head outlet from the cylinder valve. All rubber seals in contact with the gas as well as the complete pneumatic cylinder can be exchanged.

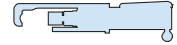


**REFRIGERANT GAS  
Filling Head**  
*for Hand wheel Valves.  
Semi-automatic Operated,  
with separate Anti-filling opener  
for evacuation of the fill line.*





















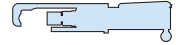
**ORDERING INFORMATION**

REFERENCE NUMBERS	INLET CONNECTION	OUTLET CONNECTION
6882900112	REFRIGERANT GAS 1/4" AIR 3/8"	Standard Hand wheel male outlet with and without SRV









## Cross reference of LPG Filling Heads

VALVES MODEL	Filling Heads SEMI-AUTOMATIC	Filling Heads MANUAL
 Kosanova 16 mm <b>176A, 130K</b>	6882900022 6882900027	6882900004 6882900007 6882900008
 Kosanova 16 mm <b>176A</b>	6882900022 6882900027	6882900025 6882900026
 Kosanova 19 mm <b>130L</b>	6882900023 6882900024	6882900005 6882900006
 Jumbo, Kosan 35mm <b>type 130B</b>	6882900020 6882900021	6882900001 6882900002 6882900003
 Compact <b>20 mm</b>	6882900009 6882900030	6882900010 6882900011
 Compact <b>21 mm</b>	6882900032 6882900033	6882900015 6882900016 6882900017
 Compact <b>22 mm</b>	6882900031	6882900013 6882900014
 Compact <b>25,6 mm</b>	6882900034	6882900018
 Compact <b>27 mm</b>	6882900029	6882900012
 Camping valve <b>64.0.590.2028</b>	Not applicable	6882900053
 Standard Handwheel Valve <b>Male thread outlet</b>	6882900042	Not applicable
 Standard Handwheel Valve <b>Valve POL outlet</b>	6882900044 6882900133	6882900056
 Omeca valve <b>67.0.490.0780</b>	6882900045	Not applicable
 Bajonet valves <b>66.0.290.0136</b> <b>66.0.290.0145</b>	6882900046	Not applicable
 Omeca coupling <b>66.0.290.1024</b>	6882900047	Not applicable
 OPD valves <b>Type 1 ACME American valves</b>	6882900050	6882900055 6882900056
 3/8" SAE Flare outlet <b>80.0.390.2062</b>	6882900051	Not applicable
 Filler Valve 1 3/4" x 6 ACME <b>6602901122</b> <b>6602901043</b>	Not applicable	6882900057



## Cross reference of Refrigerant Gas Filling Heads

VALVES MODEL	Filling Heads SEMI-AUTOMATIC	Filling Heads MANUAL
 W21,7x1/14" RH +/- anti-filling		6882900108
 W21,7 x 1/14" RH - anti-filling (7601900193)		6882900121
 1,030 x 14 NGO RH, CGA660 +/- anti-filling	6882900128	6882900114
 Std. male outlets - anti-filling	6882900043	
 Std. male outlets +/- anti-filling	6882900065 6882900112 6882900127	
 1/4" SAE Flare - anti-filling	6882900105	



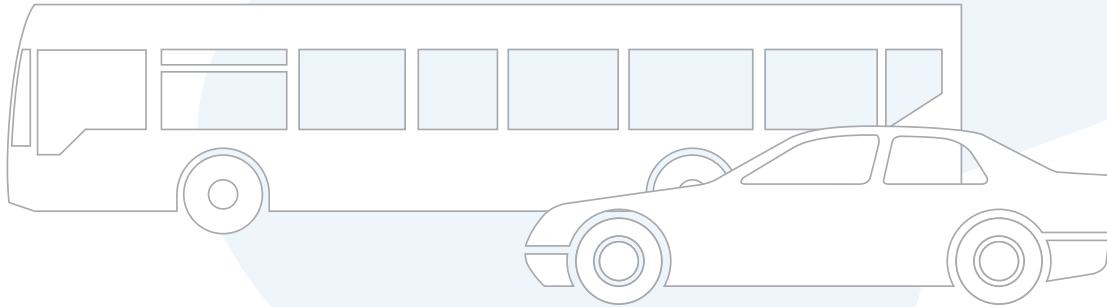


**Cavagna group**

Advanced Solutions for Gas Control

**LPG-CNG VALVES & EQUIPMENT** DIVISION

# AUTOMOTIVE



AUTOMOTIVE

# Automotive Valve GlobalOne



**Approvals**  
ISO 15500 / ECE R 110

### VENTED MANUAL CNG CYLINDER VALVE

- Manual vented valve which does not require gas tight housing
- Thermal safety (PRD) and burst disk available upon request
- Excess flow valve available upon request
- Applications: For all kind of tanks
- Installation procedure: ISO 13341
- Material: Brass

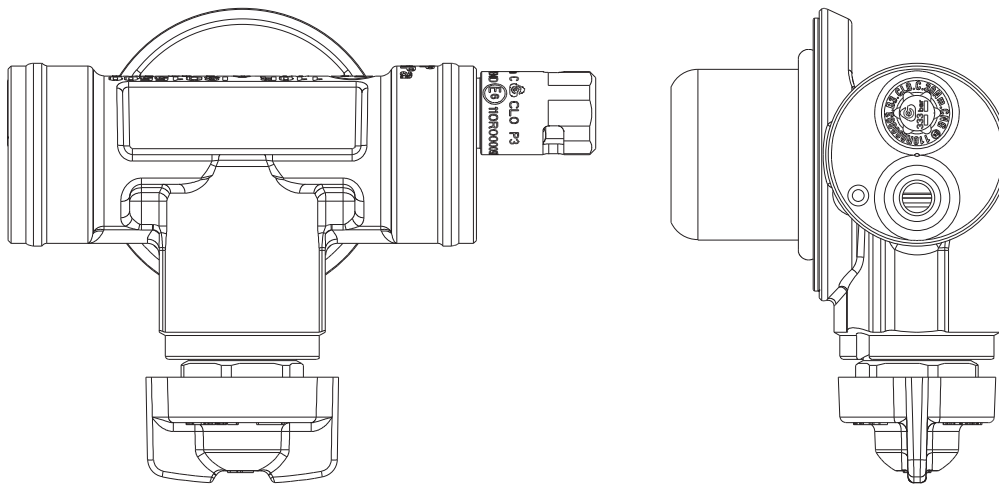
### GENERAL INFORMATION

<b>APPLICATION</b>	All types of tanks
<b>INSTALLATION PROCEDURE</b>	ISO 13341
<b>MATERIAL</b>	Brass

### TECHNICAL DATA SHEET

Description	Value	
<b>PRESSURE</b>	Max. Working Pressure	260 bar
<b>TEMPERATURE</b>	Working Temperature	-40°C / +85°C
	PRD activation Temperature	+110°C +/- 10°C
<b>PRD SAFETY VALVE</b>	Minimum area of gas flow equivalent to a 6 mm orifice	
<b>BURSTING DISC</b>		
<b>VALVE FLOW CAPACITY</b>		
<b>BURSTING DISC</b>	available with different settings	
<b>SECURITY BUTTERFLY KNOB</b>	Opening-closing angle	270°
<b>EXCESS FLOW VALVE</b>	ΔP Valve activation within	6,5 bar

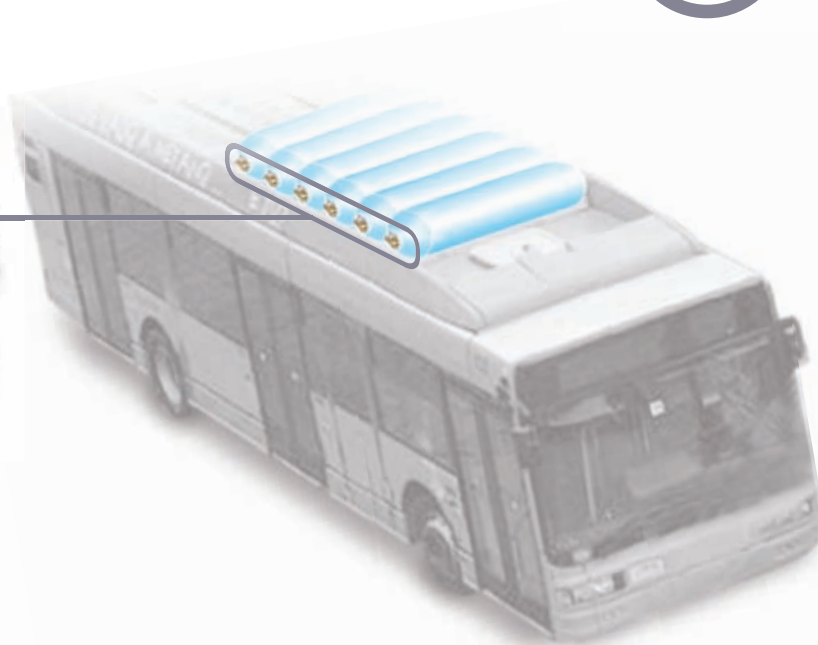
# Automotive Valve GlobalOne



## AVAILABLE VERSIONS

Cylinder connections	Inlet pipe connections	Outlet pipe connections
1" BS 341	M12X1 1/4" - 18NPT	SMOOTH / LISCI D30
1" 1/8 UNF		
3/4" 14 NGT		
JIS-B-8246-V2		
W28.8 - 25E		

# Automotive Valve Global HD



**Approvals**

ISO 15500 / ECE R 110

**AUTOMATIC CNG CYLINDER VALVE**

- Automatic CNG Cylinder Valve for heavy duty vehicles
- Thermal safety (PRD) and burst disk available upon request
- Excess flow valve available upon request
- Solenoid Valve 12-24 V

- Applications: For all types of tanks
- Installation procedure: ISO 13341
- Conforming with major ISO and National Standards
- Material: Brass
- Various surface treatments available

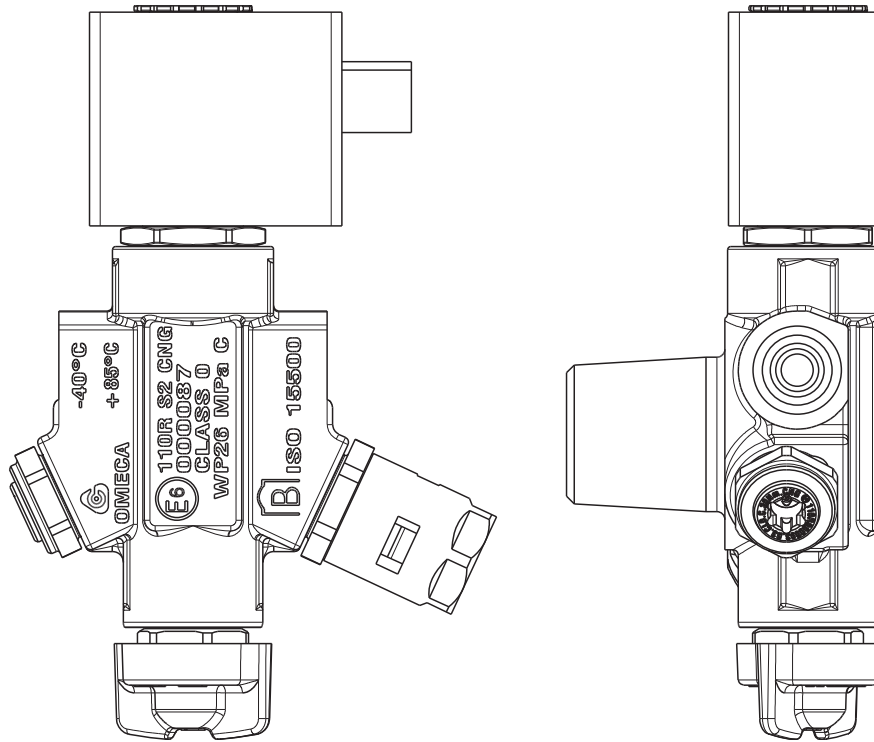
**GENERAL INFORMATION**

<b>APPLICATION</b>	All types of tanks
<b>INSTALLATION PROCEDURE</b>	ISO 13341
<b>MATERIAL</b>	Brass

**TECHNICAL DATA SHEET**

Description	Value
<b>PRESSURE</b>	Max. Working Pressure 260 bar
<b>TEMPERATURE</b>	Working Temperature -40°C / +85°C
	PRD activation Temperature +110°C +/- 10°C
<b>PRD SAFETY VALVE</b>	Minimum area of gas flow equivalent to a 8 mm orifice
<b>BURSTING DISC</b>	Minimum area of gas flow equivalent to a 6 mm orifice
<b>VALVE FLOW CAPACITY</b>	
<b>BURSTING DISC</b>	available with different settings
<b>SECURITY BUTTERFLY KNOB</b>	Opening-closing angle 270°
<b>EXCESS FLOW VALVE</b>	$\Delta P$ Valve activation within 6,5 bar
<b>SOLENOID VALVE</b>	Voltage 12-24 VDC - Power absorption in all conditions 12 W (12-24 VCC) Minimum area of gas flow equivalent to a 6 mm orifice

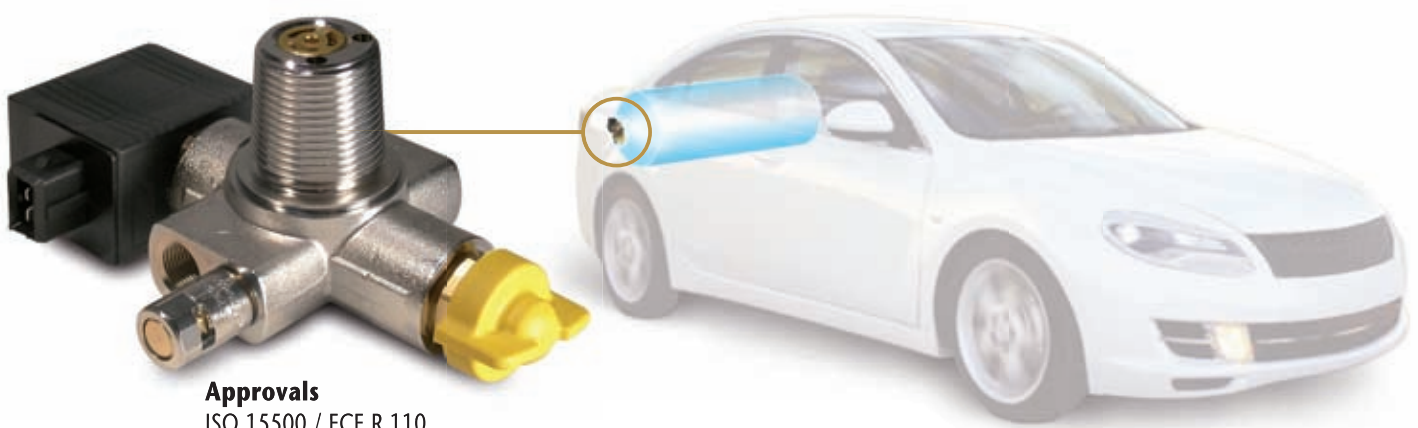
# Automotive Valve Global HD



## AVAILABLE VERSIONS

Cylinder connections	Inlet pipe connections
1" BS 341	1/4"-18 NPT 9/16"-18 UNF M10x1 M12x1 M14x1
1" 1/8 UNF	
3/4" 14 NGT	
JIS-B-8246-V2	
W28.8 - 25E	

# Automotive Valve Global LD 1



**Approvals**  
ISO 15500 / ECE R 110

### AUTOMATIC CNG CYLINDER VALVE

- Automatic CNG Cylinder Valve for light duty vehicles
- Thermal safety (PRD) and burst disk available upon request
- Excess flow valve available upon request
- Solenoid Valve 12-24 V
- Applications: For all types of tanks

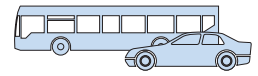
- Installation procedure: ISO 13341
- Material: Brass
- ValveType: Unvented
- Conforming with major ISO and National Standards
- Various surface treatments available

### GENERAL INFORMATION

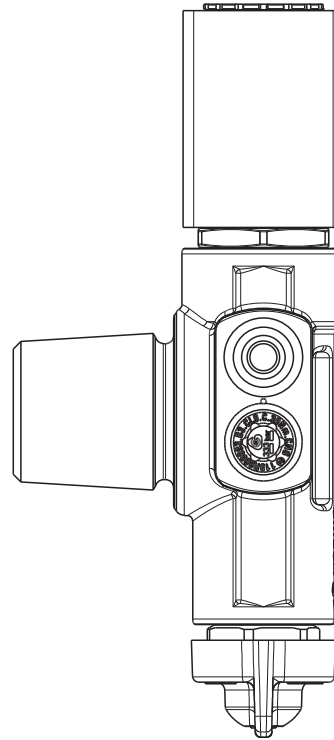
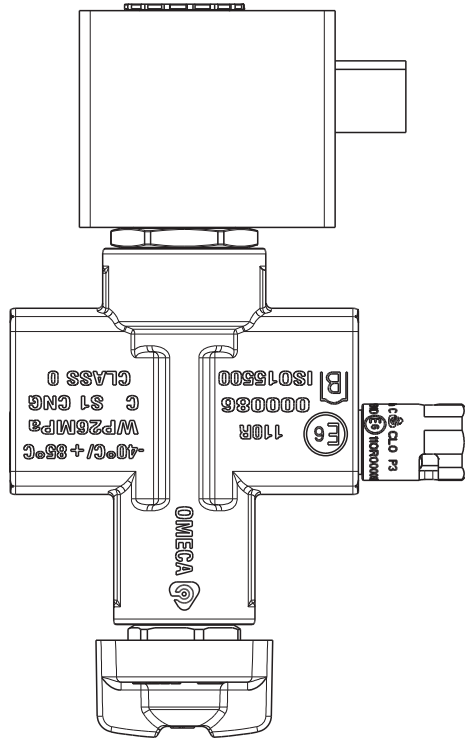
<b>APPLICATION</b>	All types of tanks
<b>INSTALLATION PROCEDURE</b>	ISO 13341
<b>MATERIAL</b>	Brass
<b>VALVE TYPE</b>	unvented

### TECHNICAL DATA SHEET

Description	Value
<b>PRESSURE</b>	Max. Working Pressure 260 bar
<b>TEMPERATURE</b>	Working Temperature -40°C / +85°C
	PRD activation Temperature +110°C +/- 10°C
<b>PRD SAFETY VALVE</b>	Minimum area of gas flow equivalent to a 6 mm orifice
<b>BURSTING DISC</b>	
<b>VALVE FLOW CAPACITY</b>	
<b>BURSTING DISC</b>	available with different settings
<b>SECURITY BUTTERFLY KNOB</b>	Opening-closing angle 270°
<b>EXCESS FLOW VALVE</b>	$\Delta P$ Valve activation within 6,5 bar
<b>SOLENOID VALVE</b>	Voltage 12-24 VDC - Power absorption in all conditions 12 W (12-24 VCC) Minimum area of gas flow equivalent to a 6 mm orifice



# Automotive Valve Global LD 1



## AVAILABLE VERSIONS

Cylinder connections	Inlet pipe connections	Outlet pipe connections
1" BS 341	M12X1 1/4" - 18NPT	SMOOTH / LISCI D30
1" 1/8 UNF		
3/4" 14 NGT		
JIS-B-8246-V2		
W28.8 - 25E		

# Automotive Valve Global LD 2



**Approvals**  
ISO 15500 / ECE R 110

### AUTOMATIC CNG CYLINDER VALVE

- Automatic CNG Cylinder Valve for light duty vehicles
- Thermal safety (PRD) and burst disk available upon request
- Excess flow valve available upon request
- Solenoid Valve 12-24 V
- Applications: For all types of tanks

- Installation procedure: ISO 13341
- Material: Brass
- ValveType: Vented
- Conforming with major ISO and National Standards
- Various surface treatments available

### GENERAL INFORMATION

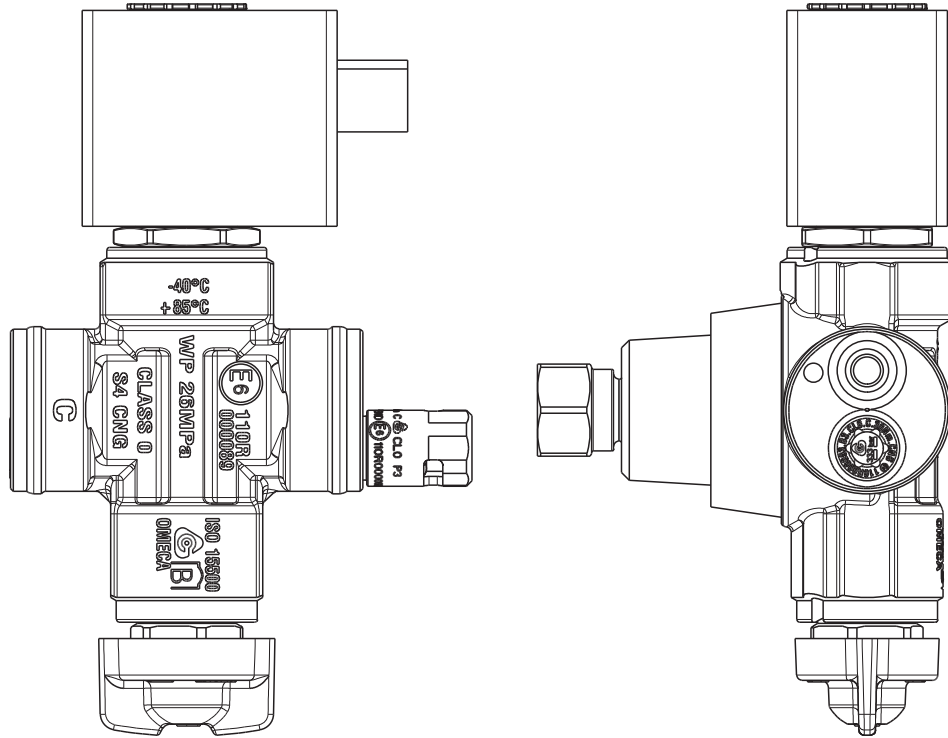
<b>APPLICATION</b>	All types of tanks
<b>INSTALLATION PROCEDURE</b>	ISO 13341
<b>MATERIAL</b>	Brass
<b>VALVE TYPE</b>	vented

### TECHNICAL DATA SHEET

Description	Value
<b>PRESSURE</b>	Max. Working Pressure 260 bar
<b>TEMPERATURE</b>	Working Temperature -40°C / +85°C
	PRD activation Temperature +110°C +/- 10°C
<b>PRD SAFETY VALVE</b>	Minimum area of gas flow equivalent to a 6 mm orifice
<b>BURSTING DISC</b>	
<b>VALVE FLOW CAPACITY</b>	
<b>BURSTING DISC</b>	available with different settings
<b>SECURITY BUTTERFLY KNOB</b>	Opening-closing angle 270°
<b>EXCESS FLOW VALVE</b>	$\Delta P$ Valve activation within 6,5 bar
<b>SOLENOID VALVE</b>	Voltage 12-24 VDC - Power absorption in all conditions 12 W (12-24 VCC) Minimum area of gas flow equivalent to a 6 mm orifice



# Automotive Valve Global LD 2



AVAILABLE VERSIONS		
Cylinder connections	Inlet pipe connections	Outlet pipe connections
1" BS 341	M12X1 1/4" - 18NPT	SMOOTH / LISCI D30
1" 1/8 UNF		
3/4" 14 NGT		
JIS-B-8246-V2		
W28.8 - 25E		

# Cut-Off Valves S3



**FEATURES**

- In line cut-off automatic valve
- Low absorption solenoid valve
- Universal thread connections available to match
- CNG inlet filtering system
- Max working pressure: 260 bar
- Working temperature: -40 + 120°c

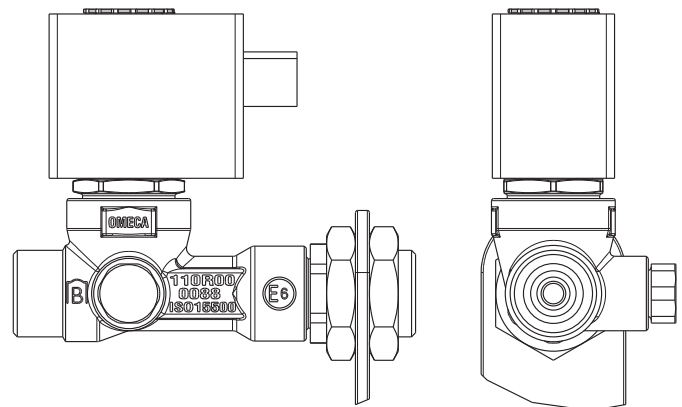


**Approvals**  
ISO 15500 / ECE R 110

GENERAL INFORMATION	
<b>APPLICATION</b>	All types of pipelines
<b>INSTALLATION PROCEDURE</b>	Internal warning
<b>MATERIAL</b>	Brass

TECHNICAL DATA SHEET		
Description	Value	
<b>PRESSURE</b>	Max. Working Pressure	260 bar
<b>TEMPERATURE</b>	Working Temperature	-40°C / +120°C
<b>SECURITY BUTTERFLY KNOB</b>	Opening-closing angle	270°
<b>SOLENOID VALVE</b>	Voltage 12-24 VDC - Power absorption in all conditions 12 W (12-24 VCC) Minimum area of gas flow equivalent to a 6 mm orifice	

AVAILABLE VERSIONS		
Cylinder connections	Inlet pipe connections	External thread
M12x1	2 x M12x1	G1/2"
1/4" - 18 NPT	2 x 1/4" - 18 NPT	
9/16" - 18 UNF	2 x 9/16" - 18 UNF	Smooth D21.5
M14x1	2 x M14x1	



## Filling Valve F1



### FEATURES

- Russia and Ukraine Type
- Check valve available
- NGV Connection on demand



**Approvals**  
ISO 15500 / ECE R 110

### GENERAL INFORMATION

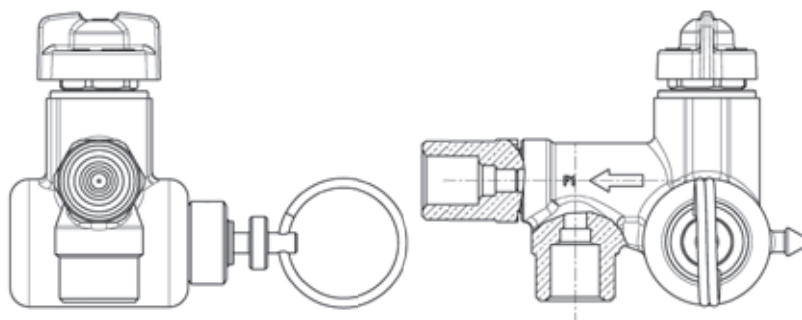
<b>APPLICATION</b>	All types of pipelines
<b>INSTALLATION PROCEDURE</b>	Internal warning
<b>MATERIAL</b>	Brass

### TECHNICAL DATA SHEET

Description	Value	
<b>PRESSURE</b>	Max. Working Pressure	260 bar
<b>TEMPERATURE</b>	Working Temperature	-40°C / +120°C
<b>CHECK VALVE</b>	Minimum area of gas flow equivalent to a 6 mm orifice	
<b>SECURITY BUTTERFLY KNOB</b>	Opening-closing angle	270°

### AVAILABLE VERSIONS

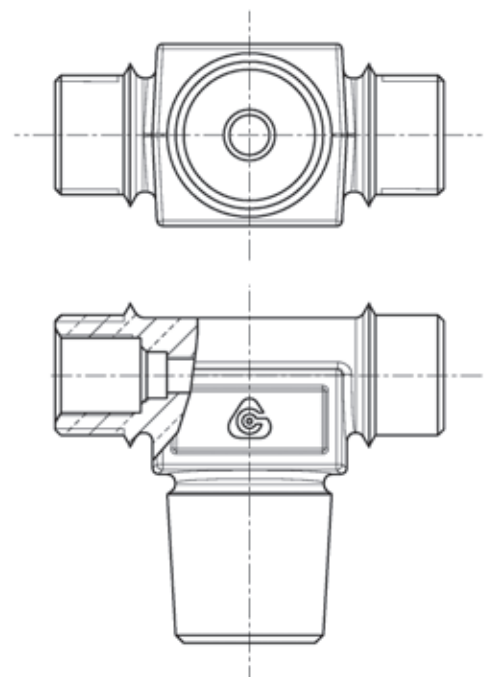
Cylinder connections	Inlet pipe connections	External thread
NA	2 x M12x1	G1/2"
NA	2 x 1/4" - 18 NPT	
NA	2 x 9/16" - 18 UNF	Smooth D21.5
NA	2 x M14x1	



# Bundle connectors



AVAILABLE VERSIONS		
Cylinder connections	Inlet pipe connections	External thread
W28.8	2 x M12x1 2 x 1/4" - 18 NPT 2 x 9/16" - 18 UNF 2 x M14x1 Smooth	G1/2" Smooth D21.5 3/4 16 UNF 7/8 14 UNF - 3/4 16 UNF
1" 1/8 UNF		
1" BS 341		
3/4" NGT		
JIS-B-8246-V2		

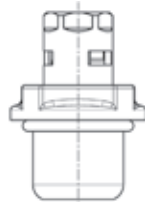


## Additional Safety Devices P2



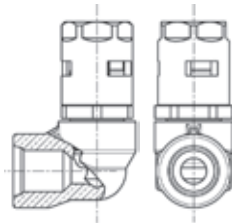
**Approvals**  
ISO 15500 / ECE R 110

### Stand Alone



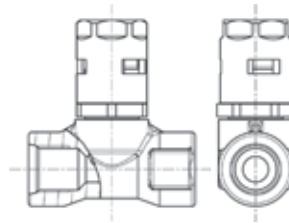
Cylinder connections	Inlet pipe connections	Outlet pipe connections
W28.8	NA	NA
1" 1/8 UNF	NA	NA
1" BS 341	NA	NA
3/4" NGT	NA	NA
JIS-B-8246-V2	NA	NA

### L Shape



Cylinder connections	Inlet pipe connections	Outlet pipe connections
NA	M12x1	NA
NA	1/4"-18 NPT	NA
NA	9/16" - 18 UNF	NA
NA	M14x1	NA

### T Shape



Cylinder connections	Inlet pipe connections	Outlet pipe connections
NA	2 x M12 x 1	NA
NA	2 x 1/4" - 18 NPT	NA
NA	2 x 9/16" - 18 UNF	NA
NA	2 x M14 x 1	NA

#### GENERAL INFORMATION

<b>APPLICATION</b>	All types of pipelines
<b>INSTALLATION PROCEDURE</b>	ISO 13341 + Internal warning
<b>MATERIAL</b>	Brass

#### TECHNICAL DATA SHEET

Description	Value
<b>PRESSURE</b>	Max. Working Pressure 260 bar
<b>TEMPERATURE</b>	Working Temperature -40°C / +85°C
	PRD activation Temperature +110°C +/- 10°C
<b>PRD SAFETY VALVE</b>	Minimum area of gas flow equivalent to a 8 mm orifice

# Locking Wrench



## KEY 1

Locking wrench for valve type  
**G1 / G2**



## KEY 2

Locking wrench for valve type  
**S1**



## KEY 3

Locking wrench for valve type  
**S2**



## KEY 4

Locking wrench for valve type  
**S4**

# Spare Parts



## PROP 1

Electrical connecting wire for JPT coils



## PROP 2

Gasket for vented conical thread



## PROP 3

12 / 24V. CNG coil with JPT connection

Other electrical connection available on request.

## Fittings



### LINK 1

Fixing bracket + Fixing Nut G1/2



### LINK 2

- M12x1 fitting - long - for 6 mm pipes
- M12x1 fitting - long - for 8 mm pipes



### LINK 3

- M14x1 fitting for 6 mm pipes
- M14x1 fitting for 8 mm pipes



### LINK 4

- Bicone for pipes diam 8x1
- Bicone for pipes diam 6x1

Other electrical connection available on request.



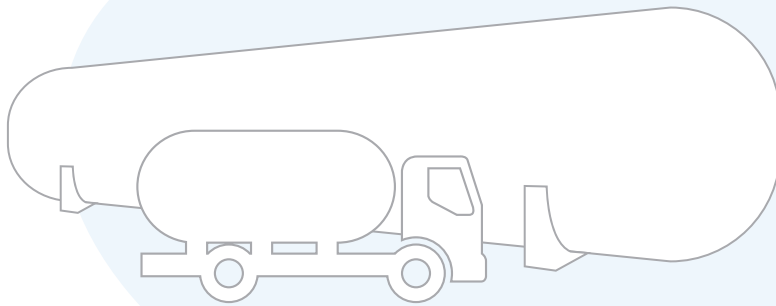


**Cavagna group**

Advanced Solutions for Gas Control

**LPG-CNG VALVES & EQUIPMENT** DIVISION

# LPG BULK STORAGE AND TRUCK EQUIPMENT



The images and products pictured in this catalogue section,  
replicate only a few of the products of the entire LPG BULK STORAGE AND TRUCK EQUIPMENT range.  
For further information regarding the entire range please request the specific LPG BULK STORAGE AND TRUCK EQUIPMENT catalogue.

For orders please refer to:



cavagna group

omeca

tel. +39 030 9663.111 - fax +39 030 9969014

Website: [www.cavagnagroup.com](http://www.cavagnagroup.com)

E-mail: [omeca@cavagnagroup.com](mailto:omeca@cavagnagroup.com)

## 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

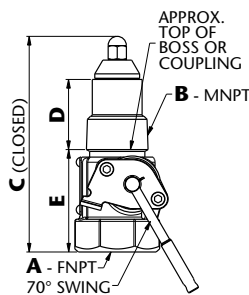
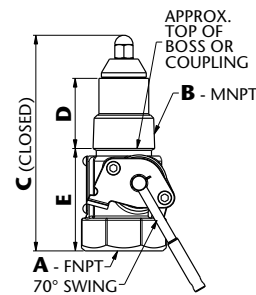
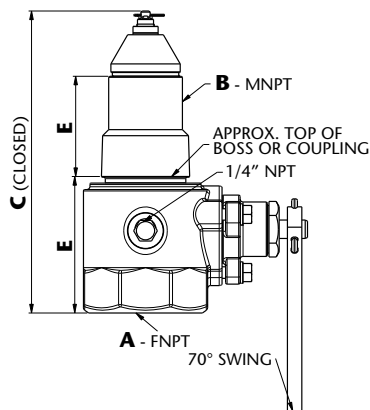
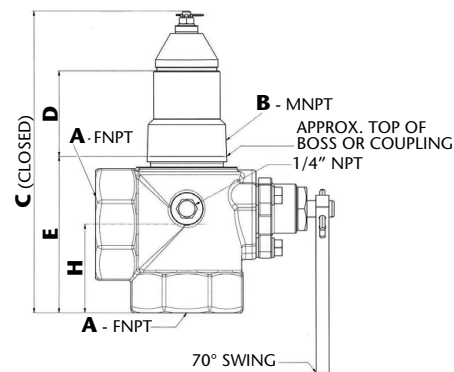
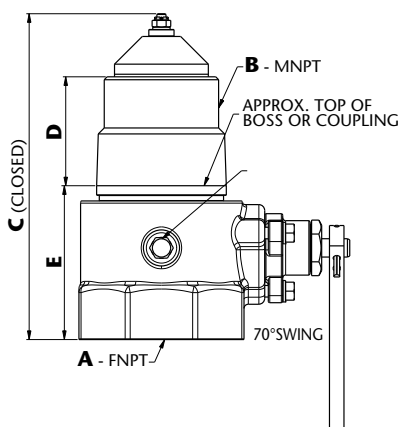
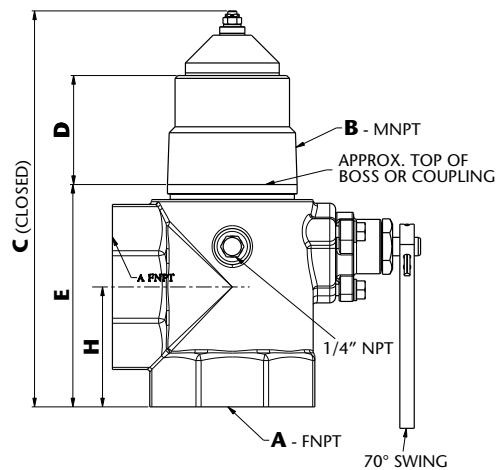

**LPG - NH<sub>3</sub>**

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


**LPG**

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

Packing: PTFE

Seat disk: Synthetic rubber

Stub, Shaft &amp; Stem: stainless steel

**DIMENSIONS**

A	B	C	D	E	H
<b>1 1/4" NPT</b>	1 1/4" NPT	5,90" (150 mm)	1,86" (47 mm)	2,88" (73 mm)	-----
<b>1 1/2" NPT</b>	1 1/2" NPT	5,90" (150 mm)	1,86" (47 mm)	2,88" (73 mm)	-----
<b>2" NPT</b>	2" NPT	8,26" (210 mm)	2,40" (61 mm)	4,05" (103 mm)	-----
<b>3" NPT</b>	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		6,50" (165,3 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.



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



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

## Flanged Internal Valve 4"



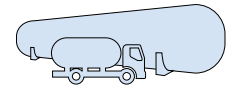
Cavagna flanged valves, equipped with a built-in excess flow valve to prevent uncontrolled product release, are perfect for mounting a pump or other similar piping connections. Mounting bolts weakened section, provided, allow the pump or piping to "shear" in the event of an accident, thereby leaving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



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

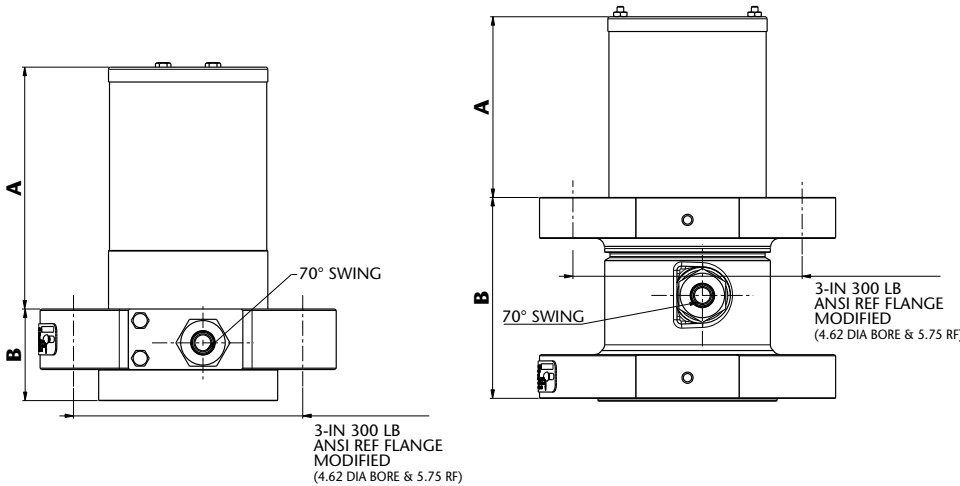


Part Number	Material	Inlet Connection	Outlet Connection	Closing Flow GPM Propane
<b>6902900141</b>	steel	4"300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	340
<b>6902900142</b>	steel	4"300lb ANSI RF Modified (4 7/8" dia bore)	4" 300 lb. ANSI RF	440
<b>6902900143</b>	steel	4"300lb ANSI RF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



# Flanged Internal Valve

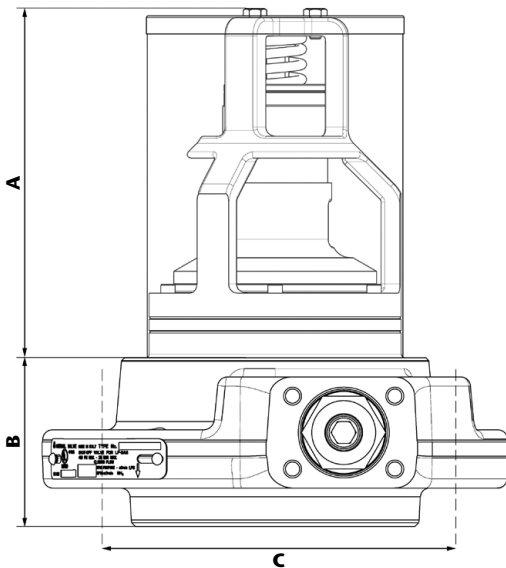
## 3" One-Two ways



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

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

## 4" One way



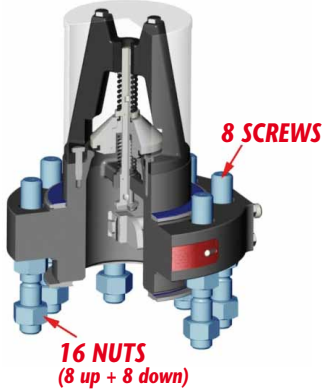
**Flanged Valves specification:**  
 Pressure Rating: 400 PSI (27.58 bar) WOG  
 Temperature: Up to 150°F (66°C)  
 Body: cast steel WCB  
 Packing: PTFE  
 Seat disk: Synthetic rubber  
 Stub, Shaft & Stem: stainless steel  
 Gaskets: Non asbestos spiral wound graphite

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

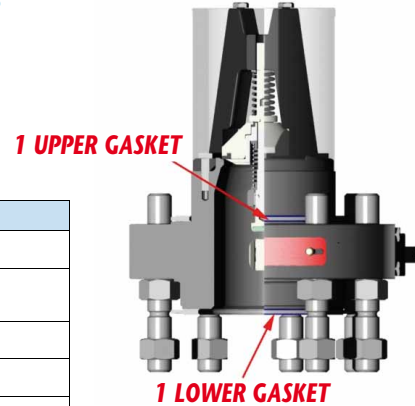


# Flanged Internal Valve Accessories

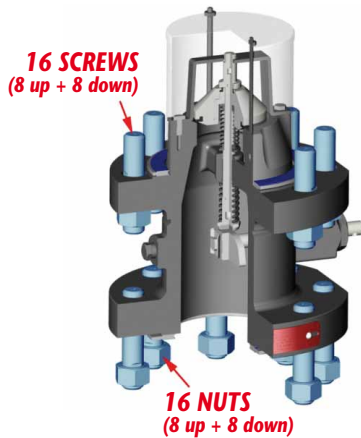
## 3" Single Flanged Valve



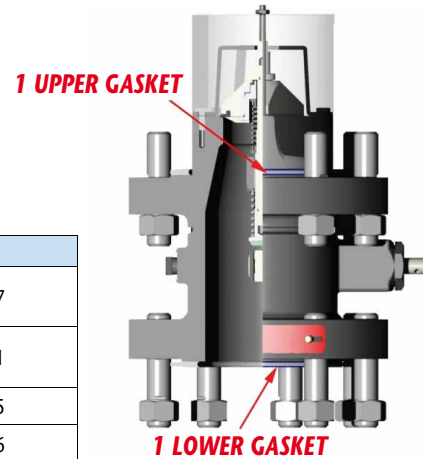
Type	Code
<b>8 SCREWS - 3/4 - 10 UNC</b>	1401101518
<b>16 NUTS (8 up + 8 down) 3/4 - 10 UNC</b>	3001102611
<b>1 UPPER GASKET</b>	0401105575
<b>1 LOWER GASKET</b>	0401105576
<b>8 SCREWS - M 20x2,5</b>	1401101522
<b>16 NUTS (8 up + 8 down) M 20 x 2,5</b>	3001102628



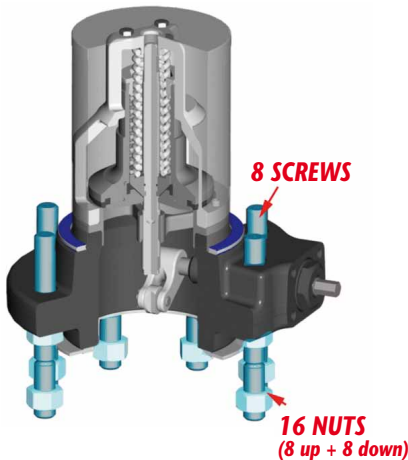
## 3" Double Flanged Valve



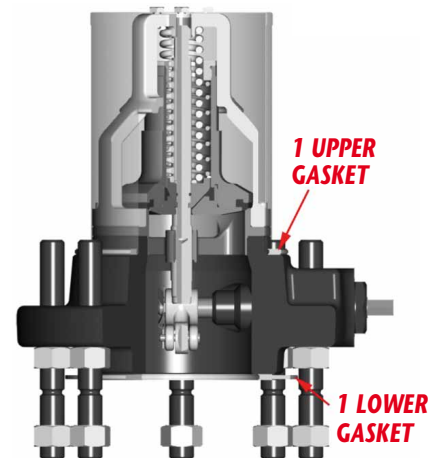
Type	Code
<b>16 SCREWS (8 up + 8 down) 3/4 - 10 UNC</b>	1401101517
<b>16 NUTS (8 up + 8down) 3/4 - 10 UNC</b>	3001102611
<b>1 UPPER GASKET</b>	0401105575
<b>1 LOWER GASKET</b>	0401105576



## 4" Single Flanged Valve



Type	Code
<b>8 SCREWS - 3/4 - 10 UNC</b>	1401101519
<b>16 NUTS (8 up + 8down) 3/4 - 10 UNC</b>	3001102611
<b>1 UPPER GASKET</b>	0401105595
<b>1 LOWER GASKET</b>	0401105596



## Rotary Cams Actuators



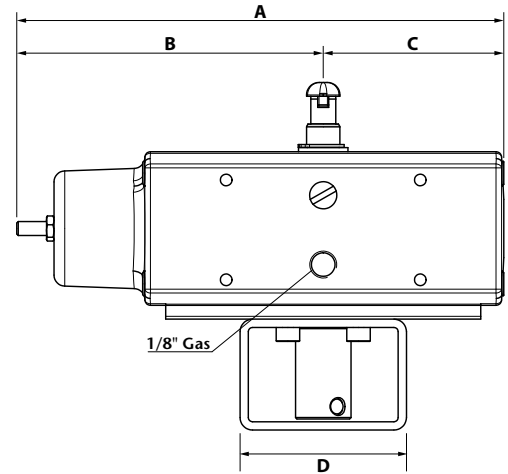
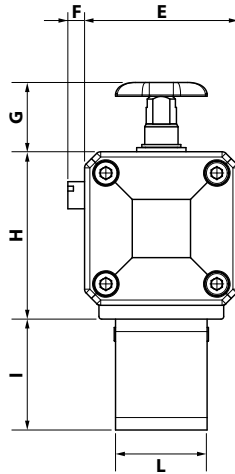
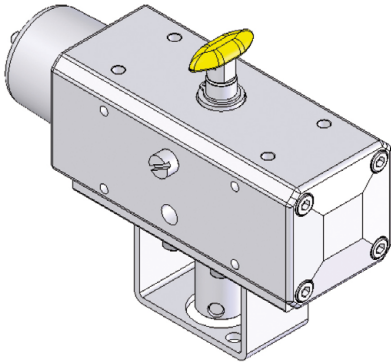
### Features:

- 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.

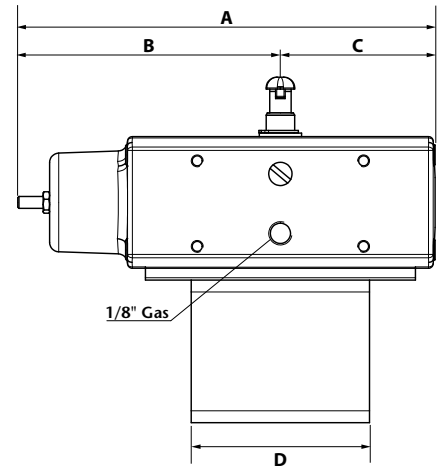
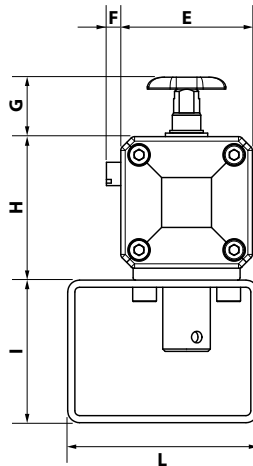
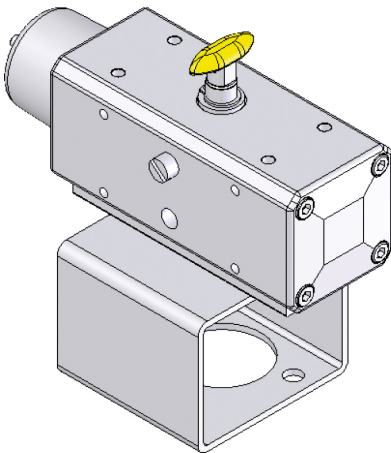
Actuators	
Part. No.	Fits
<b>0-205</b>	CAVAGNA 1"1/2 Threaded Internal Valve
<b>0-206</b>	CAVAGNA 2" & 3" Threaded Internal Valve
<b>0-207 SF</b>	CAVAGNA 3" Single Flange Internal Valve
<b>0-207</b>	CAVAGNA 3" Double Flanged Internal Valve
<b>0-208 SF</b>	CAVAGNA 4" Single Flange Internal Valve

# Rotary Cams Actuators

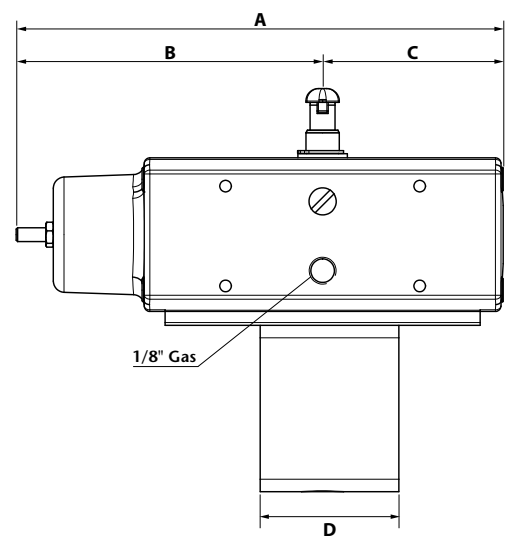
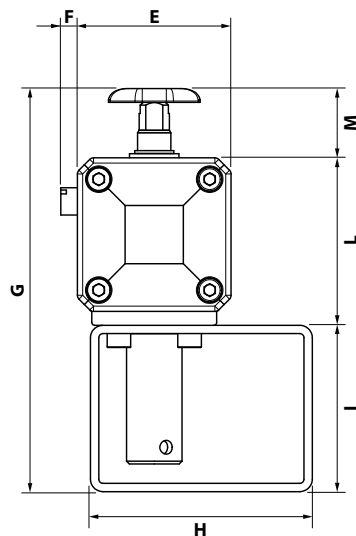
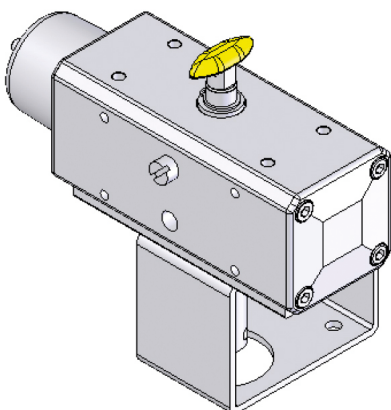
**O-205**

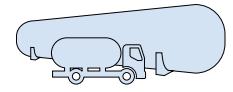


**O-206**



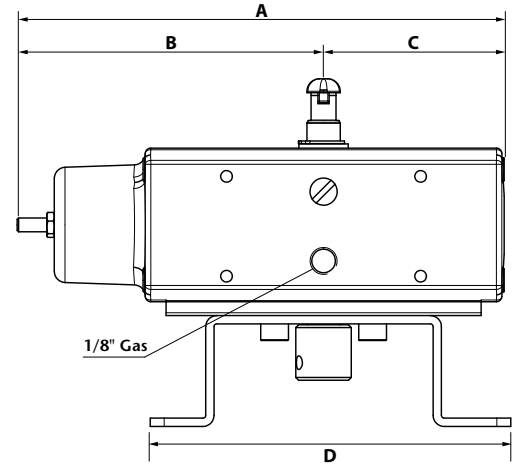
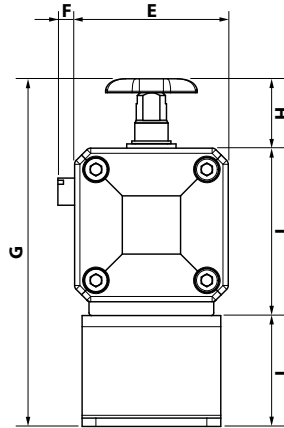
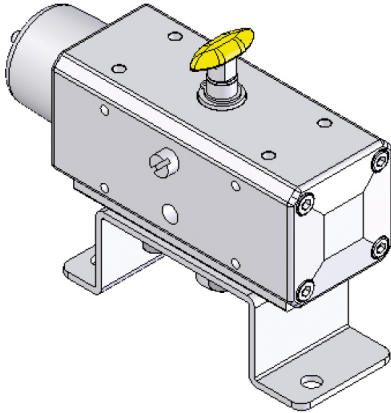
**O-207 SF**



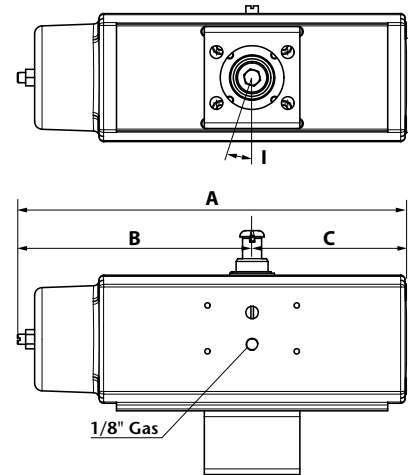
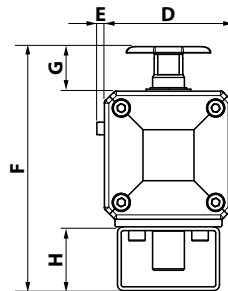
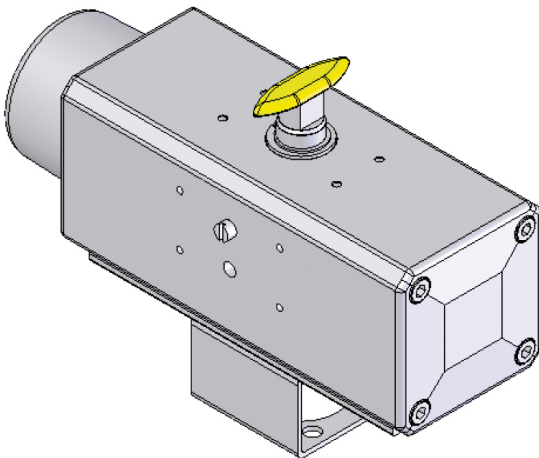


# Rotary Cams Actuators

## O-207

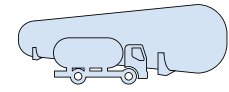


## O-208 SF



**Rotary Cams Actuators Dimensions (mm)**

	A	B	C	D	E	F	G	H	I	L	M
<b>O-205</b>	175,6	110,5	65,1	60	55,4	6	25	60,4	40	33	-
<b>O-206</b>	175,6	110,5	65,1	75	55,4	6	25	60,4	60	80	-
<b>O-207 SF</b>	175,6	110,5	65,1	50	55,4	6	145,4	80	60	60,4	25
<b>O-207</b>	175,6	110,5	65,1	130	55,4	6	125,4	25	60,4	40	-
<b>O-208 SF</b>	305	184,1	120,9	100,4	6	191,4	35	50	17,5°	-	-



# Internal Valve Actuators

Designed with a heavy duty stainless steel frame to withstand the toughest conditions. These actuators are intended to be used at remote locations or operated directly off the air brake system in bobtail or transport applications.

The actuator's smooth acting cam opens the internal valve lever when air, nitrogen, or carbon dioxide is applied to the line. When pressure to the line is released, the internal valve automatically closes. In case of a fire the factory provided thermal plug melts at 212° Fahrenheit releasing pressure allowing the internal valve to close. These actuators require no modifications and all hardware needed for installation is provided.

## Internal Valve Actuator Features

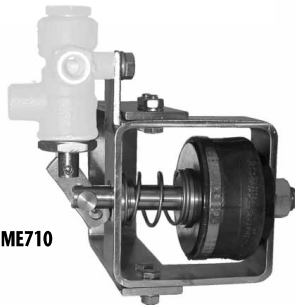
- Stainless steel all weather bracket
- Field repairable without complete disconnect from internal valve
- Repairable with common automotive brake chamber
- High gloss automotive grade black epoxy coating

Part No.	Actuator Type	Fits	Internal Valve
ME205	Airstroke™ by Firestone	Cavagna 6902900101, Cavagna 6902900102 Cavagna 6902900103	1-1/4"
ME205R	Airstroke™ by Firestone	RegO® A3209R	1-1/4"
ME206	#9	Cavagna 6902900104, Cavagna 6902900105 Cavagna 6902900106, Cavagna 6902900107 Cavagna 6902900108, Cavagna 6902900109 Cavagna 6902900110, Cavagna 6902900111 Cavagna 6902900112, Cavagna 6902900113 Cavagna 6902900114, Cavagna 6902900115 Cavagna 6902900116, Cavagna 6902900130 Cavagna 6902900131, Cavagna 6902900132	2" & 3"
ME207	#9	Cavagna 6902900122, Cavagna 6902900123 Cavagna 6902900124, Cavagna 6902900125 Cavagna 6902900126	3" Double Flange
ME207SF	#9	Cavagna 6902900117, Cavagna 6902900118 Cavagna 6902900119, Cavagna 6902900120 Cavagna 6902900121	3" Single Flange
ME208SF	#24	-	4" Single Flange
ME710	Airstroke™ by Firestone	RegO® Flowmatic® Three-Way Valve	

## FAStroke Actuators



ME205



ME710



ME205R

## Power Stroke Actuators



ME206



ME208SF



ME207



## Accu-Max 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:

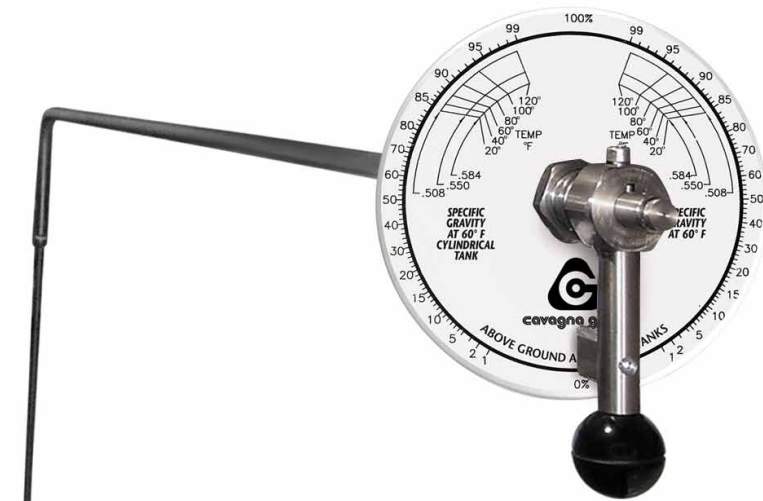
- All stainless steel construction for use with LPG & NH<sub>3</sub> applications
- Welded tube to coupling design for maximum strength and durability
- Integral spring loaded shock absorber for arduous over-the-road application
- Exclusive easy to read "glow in the dark" dial face perfect for low light 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

DOT Float Gauges			
Part No.	Description	Dial Face	Tank Diameter
<b>ME930-72</b>	Accu-Max DOT Float Gauge Assembly	Glow / Black	Available in different sizes
<b>ME930-79</b>	Accu-Max DOT Float Gauge Assembly	Glow / Black	
<b>ME930-84</b>	Accu-Max DOT Float Gauge Assembly	Glow / Black	
<b>ME930C-72</b>	Accu-Max DOT Float Gauge Assembly (Classic)	Silver / Black	72"
<b>ME930C-79</b>	Accu-Max DOT Float Gauge Assembly (Classic)	Silver / Black	79"
<b>ME930C-84</b>	Accu-Max DOT Float Gauge Assembly (Classic)	Silver / Black	84"

ASME Stationary Float Gauges			
Part No.	Description	Dial Face	Tank Diameter
<b>ME940-108</b>	Accu-Max Stationary Float Gauge Assembly	Glow / Black	108"
<b>ME940-130</b>	Accu-Max Stationary Float Gauge Assembly	Glow / Black	130"
<b>ME940C-108</b>	Accu-Max Stationary Float Gauge Assembly (Classic)	Silver / Black	108"
<b>ME940C-130</b>	Accu-Max Stationary Float Gauge Assembly (Classic)	Silver / Black	130"

Accessories and Replacement Parts	
Part No.	Description
<b>ME930-805</b>	Replacement Accu-Max DOT Float Gauge Dial - Glow / Black
<b>ME930C-905</b>	Replacement Accu-Max DOT Float Gauge Dial - Silver / Black (Classic)
<b>ME940-905</b>	Replacement Accu-Max Stationary Float Gauge Dial - Glow / Black
<b>ME940C-905</b>	Replacement Accu-Max Stationary Float Gauge Dial - Silver / Black (Classic)
<b>ME931</b>	8 Bolt Mounting Flange Adapter 2-1/2" MNPT - Steel
<b>ME932</b>	8 Bolt Mounting Flange Adapter - Weld Type - Steel

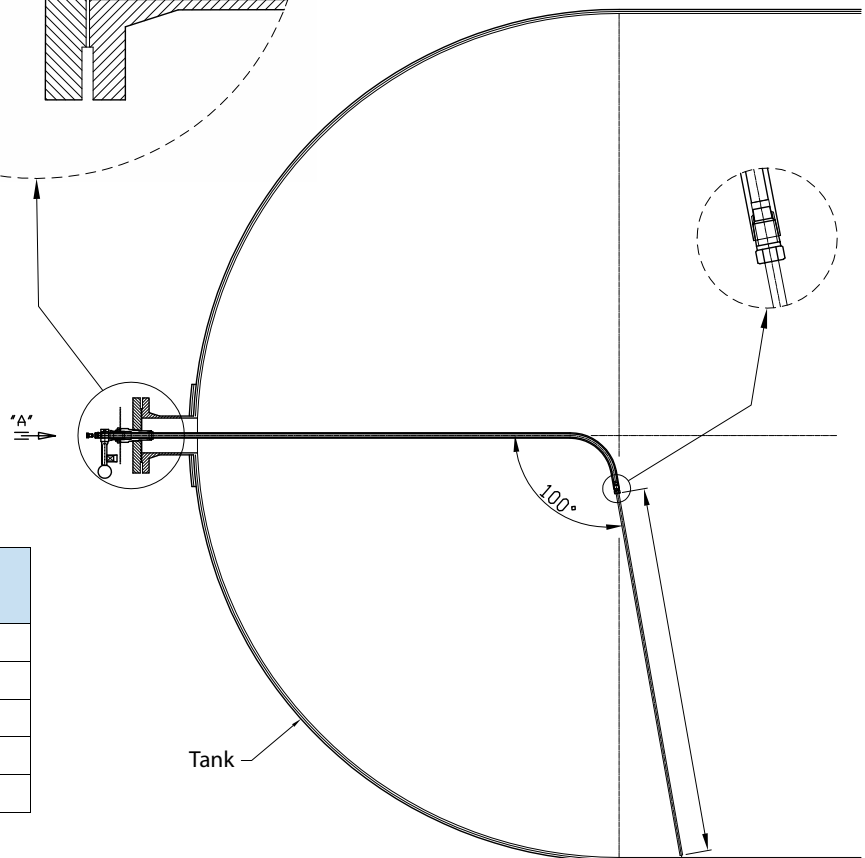
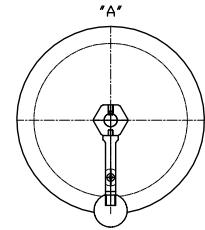
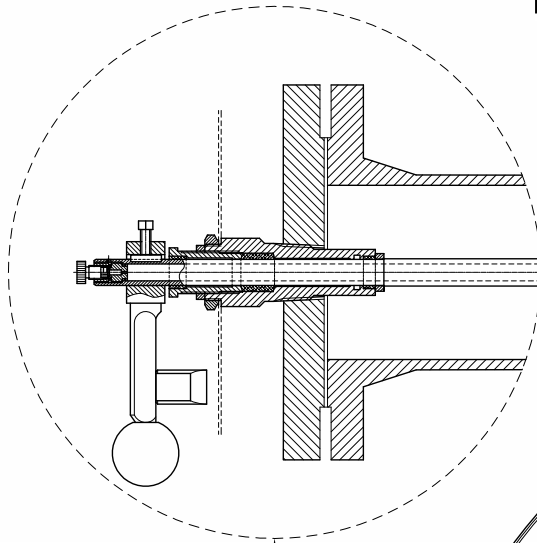
# Rotary Gauge System



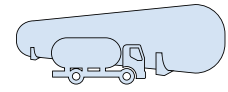
Cavagna Group rotary gauges can be used on stationary or mobile tanks to visually indicate the amount of LP-Gas in the container. They are also used in filling the tank to the proper liquid level. On mobile applications and some large stationary storage tanks, hangers are recommended to support the horizontal 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.



Length in Inches (Diameter of Tank)	Model Number
<b>68</b>	O-31 L-68
<b>69-92</b>	O-31 L-69-92
<b>93-108</b>	O-31 L-93-108
<b>109-140</b>	O-31L-109-140
<b>Dial only LP</b>	O-323



## 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.

### VALVE'S FUNCTIONING.

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.

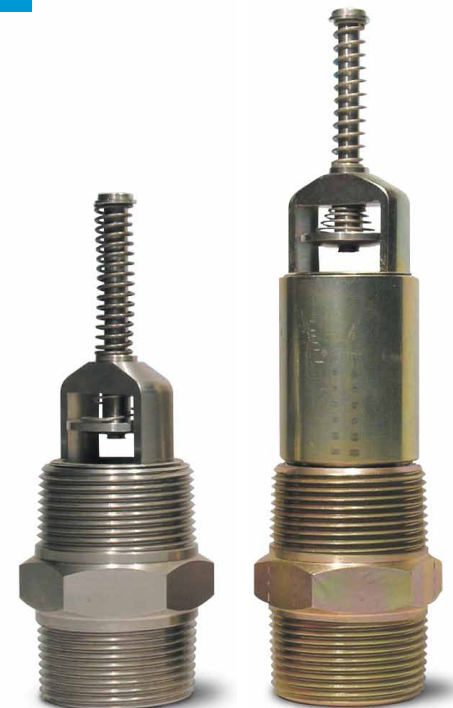


Part Number	Material	Inlet Connection	Outlet Connection	Wrench Hex Flats	Length	Approximate Closing Flows		
						Liquid (GPM Propane)	25 PSIG Inlet	100 PSIG Inlet
<b>6902900127</b>	Steel	1 1/4"	1 1/4"	2"	1 5/16"	30	5750	9800
<b>6902900128</b>	Steel	1 1/4"	1 1/4"	2"	1 5/16"	40	7500	13330
<b>6902900129</b>	Steel	1 1/4"	1 1/4"	2"	1 5/16"	50	8800	15970

## Excess Flow Valves for Liquid or Vapor withdrawal

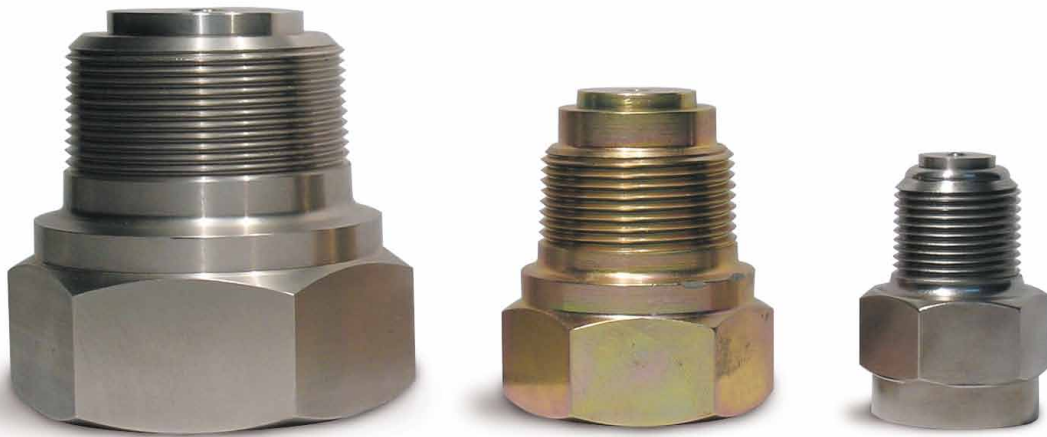
Valves are designed to be mounted on the bottom of customer storage tanks for liquid service. They may also be mounted on the top for vapour service.

Part Number	Material	Inlet Connection	Outlet Connection	Wrench Hex Flats	Approximate Closing Flows		
					Liquid (GPM Propane)	25 PSIG Inlet	100 PSIG Inlet
<b>6901900036</b>	Steel	1 1/4"	1 1/4"	1 7/8"	55	10600	18920
<b>6901900037</b>	Steel	1 1/4"	1 1/4"	1 7/8"	55	3830	6760





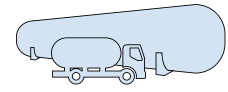
## Back Pressure Valves for Container or Line Applications



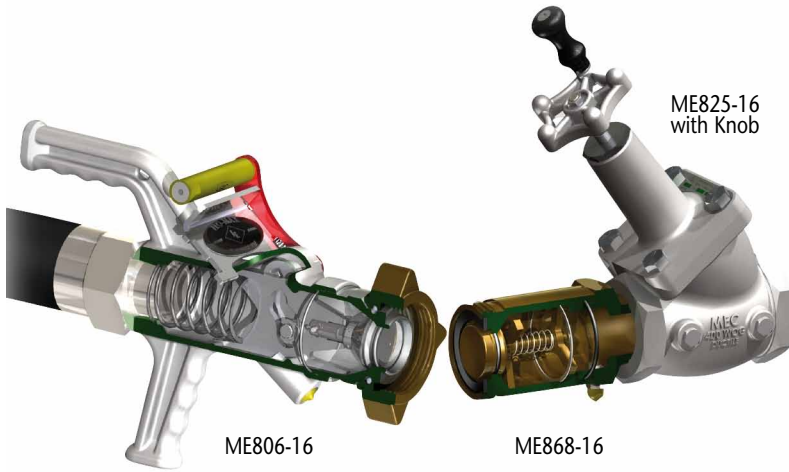
Valves are intended to prevent liquid discharge when the desired flow is directed into the vessel thereby allowing the flow in only one direction.

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 $\Delta$ Pressure		
						5 PSIG	10 PSIG	25 PSIG
<b>7100900051</b>	Steel	3/4" F NPT	3/4" M NPT	1 3/8"	1 15/16" (49,2 mm)	10,75	15,7	24,5
<b>7100900050</b>	Steel	1 1/4" F NPT	1 1/4" M NPT	2"	2 1/2" (63,5 mm)	27,5	39,2	61,75
<b>7100900049</b>	Steel	2" F NPT	2" M NPT	3"	3 3/8" (83,5 mm)	121,5	171,5	270,5

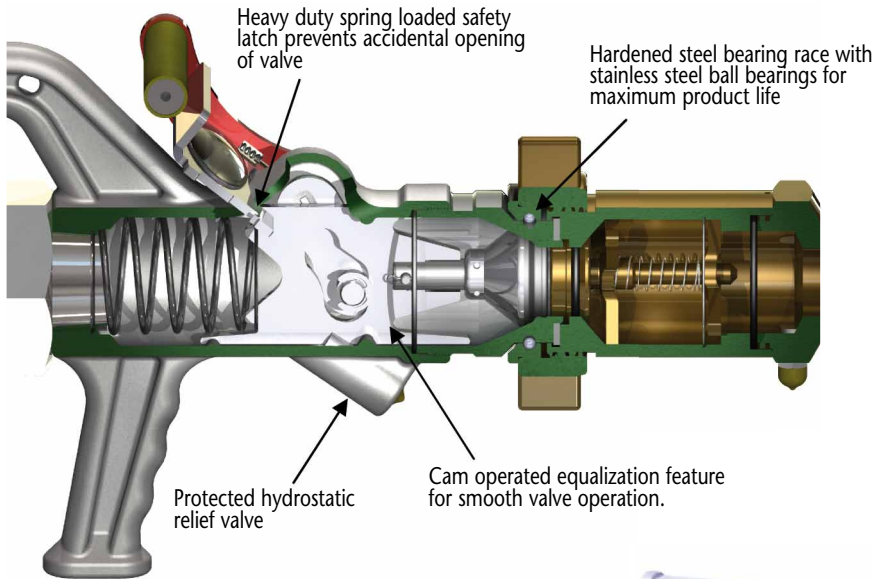


# Flo-Max LE Transfer System



Up to 55% increased flow when entire system is installed compared to a standard globe valve system

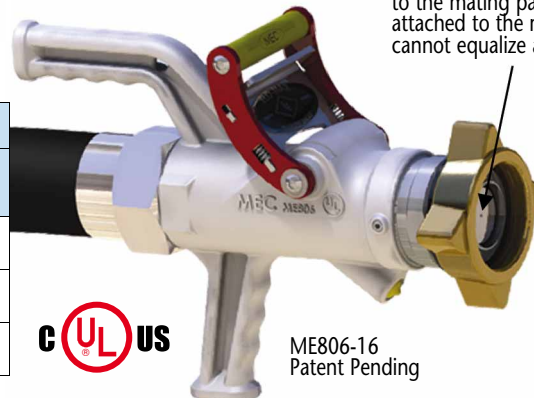
The **Flo-Max LE** (Low Emission) Transfer System is the industries **most efficient and cost-effective way** to transfer LP-Gas in bobtail, transport, railcar, and bulk plant applications. This product will pay for itself through gas savings during disconnect and its increased flow rate. While any part of this system is interchangeable with other standard systems, to receive maximum savings, all three products (LE Transfer Valve, LE Acme Adapter, and MEC Globe Valve) must be used simultaneously.



### Transfer System Features

- Minimum \$350 Savings per 1,000 fills
- Reduces product emissions by 99.6% over standard valves
- 100% compatible with existing Acme transfer connections
- All stainless steel internal components
- Convenient carrying handles and custom fit dust plug with lanyard (not shown)

Pilot orifice allows the valve to equalize and open only when the valve is attached to the mating part. When the valve is not attached to the mating part, the valve cannot equalize and will not open.



Flo-Max LE Transfer Valve				
Part No.	Inlet (FNPT)	Outlet (F. Acme)	Discharge at Disconnect	Material
ME806-16	2"	3-1/4"	.09 CC	Ductile/Brass
ME806S-16*	2"	3-1/4"	.09 CC	Ductile/Steel

\* Rated for LP-Gas & NH3

## Flo-Max LE Transfer System

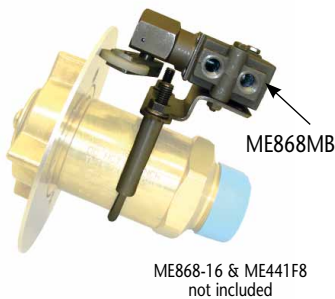
Flo-Max LE Acme Adapters								
Part No.	Inlet (M. Acme)	Outlet (MNPT)	Factory Installed Screen	Discharge at Disconnect	Material	Accessories		
						Mechanical Brake Interlock Retro-Fit	Electronic Proximity Interlock Kit	Back Check Test Adapter
ME866-8	1-3/4"	1"	No	.16 CC	Brass	-	-	-
ME866A-8	1-3/4"	1"	Yes	.16 CC	Brass	-	-	-
ME866-10	1-3/4"	1-1/4"	No	.16 CC	Brass	-	-	-
ME866A-10	1-3/4"	1-1/4"	Yes	.16 CC	Brass	-	-	-
ME867-10	2-1/4"	1-1/4"	No	1.96 CC	Brass	-	-	-
ME867A-10	2-1/4"	1-1/4"	Yes	1.96 CC	Brass	-	-	-
ME868-16	3-1/4"	2"	No	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868A-16	3-1/4"	2"	Yes	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868-24	3-1/4"	3"	No	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868A-24	3-1/4"	3"	Yes	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105



ME868-16 Patent Pending



## ACME Adapters



ME868-16 &amp; ME441F8 not included



ME868BLK



MEP105



ME868PIB Patent Pending



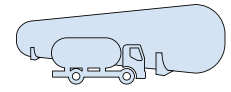
ME868-16 &amp; ME441F8 not included

**ME868BLK** - "Bypass Line Kit" is used to create a one-way closed loop between the upstream and downstream sides of a Marshall Excelsior 2" globe valve when used in conjunction with a ME868 Series low emission Acme adapter. The kit features a brass one-way check valve and preformed heavy wall copper tubing with brazed end fittings for durability. This product is intended to prevent over pressurization of the ME868 Series low emission Acme adapters making them truly low emission. This product will also greatly reduce pressures within the ME868 Series adapters thereby decreasing any wear that may occur to the shutoff valves or the low emission Acme adapter.

**ME868MIB** - "Mechanical Interlock Bracket" allows for a standard Parker style pneumatic air roller valve normally used in conjunction with standard bobtail brake interlock systems to be retro-fit to the ME868 Series low emission Acme adapters. This bracket system allows the standard brake interlock system and connections to be moved forward to the end of the low emission adapter where normal contact with the ME441F8 flange Acme cap can occur. The kit includes all bracketing and mounting hardware. (Kit does not include Parker style pneumatic roller valve).

**ME868PIB** - "Proximity Interlock Bracket" uses the new MEC smart interlock technology designed to connect with the Allison automatic transmission "auxiliary function range inhibit" preventing operation of the bobtail while this connection is in use. MEC smart interlock technology incorporates a high grade TURCK proximity switch that senses the presence of the stainless steel flange on the ME441F8 Acme cap when secured tightly to the ME868 Series adapter. This kit comes complete with all mounting hardware, MEC smart interlock technology and wiring harness to reach 5' below the deck of the bobtail.

**MEP105** - This adapter allows for the periodic evacuation and testing of a bobtail's internal back check valve during five year inspection requirements. The adapter fits snugly into the female Acme side of a ME130 which then can be threaded onto the ME868 Series low emission Acme adapter pushing the valve poppet to the open position thereby depressurizing the system for testing purposes. (Note: Be sure to consult instruction manual supplied with MEP105 test adapter before attempting use.)



## Low Emission Hose End Valves

These hose end valves are leading the industry in minimal product loss during disconnect without sacrificing flow. They have instant full-on flow with the added protection of a quick closing, self-locking handle to prevent accidental opening of the valve during transport. They are designed to be used at the end of a filling hose on a bobtail, dispensing system or nurse tank.

### Hose End Valve Features

- All stainless steel component construction
- Vents less than .50cc for minimal loss of product at disconnect
- Self-locking toggle handle prevents accidental valve opening
- Toggle handle and stem assembly rotates 360.
- Durable ductile iron valve body with automotive grade powder coat finish
- Stainless steel 1-3/4" female Acme insert cast into the handle
- No additional adapters or connectors needed for operation
- Optional extended version offers 6 inches of additional reach for filling underground containers or other hard to reach applications
- Optional composite style offers a durable lightweight handle that is resistant to frosting and cold transfer during the filling operation
- Optional factory installed E-ZTurn stainless steel swivel



ME800



ME800C



ME800G



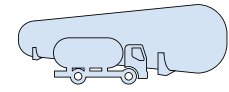
ME800GWS



ME800EXT



Part No.	Inlet (FNPT)	Outlet (F. Acme)	Handle Style	Handle Material	Factory Installed E-Z Turn Swivel	Extended Version
ME800	1"	1-3/4"	Standard	Aluminum	No	No
ME800WS	1"	1-3/4"	Standard	Aluminum	Yes	No
ME800C	1"	1-3/4"	Standard	Composite	No	No
ME800CWS	1"	1-3/4"	Standard	Composite	Yes	No
ME800G	1"	1-3/4"	Fluted	Aluminum	No	No
ME800GWS	1"	1-3/4"	Fluted	Aluminum	Yes	No
ME800GC	1"	1-3/4"	Fluted	Composite	No	No
ME800GCWS	1"	1-3/4"	Fluted	Composite	Yes	No
ME800EXT	1"	1-3/4"	Standard	Aluminum	No	Yes
ME800EXTWS	1"	1-3/4"	Standard	Aluminum	Yes	Yes



## E-ZTurn Hose End Swivel Connectors

The E-ZTurn 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.



### E-ZTurn 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
- See low emission hose end valves for factory installed E-ZTurn

Part No.	Inlet (FNPT)	Outlet (MNPT)
ME850SS-6	3/4"	3/4"
ME8850SS-6/8	3/4"	1"
ME850SS-8	1"	1"
ME850SS-8/6	1"	3/4"

## Hose End Valve Lock



### Application:

For use with standard hose end delivery and quick acting dispensing valves. This hose end valve lock simply slides over the handle/bonnet assembly of the dispensing valve preventing valve operation while in place, eliminating the possibility for accidental discharge and/or theft of product. This universal design allows for a common padlock to be installed for maximum security.

### Features:

- Constructed from stainless steel for maximum product life
- Includes 3/8" diameter through holes for standard 2-1/2" shackle style padlock
- Optional 2-1/2" long shackle padlocks available

Part No.	Description
<b>ME540</b>	Hose End and Quick Acting Valve Lock - Stainless Steel
<b>ME540P-KA</b>	2-1/2" Deep Shackle Padlock - Keyed Alike
<b>ME540P-KD</b>	2-1/2" Long Shackle Padlock - Keyed Different

## Hose End Valve Holster

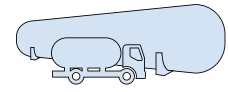
Designed to provide a durable and convenient receptacle to store bobtail hose end delivery valves during over-the road transit. This holster can be mounted fully above deck or partially below deck in left or right hand hose reel applications with an ergonomic angle providing optimum conditions for delivery personnel.

### Hose End Valve Holster Features

- All aluminum and stainless steel construction
- Urethane anti-vibration valve sleeve to prevent incidental damage to delivery valve
- Machined adjustment ribs for easy, secure height adjustment
- Deck backing plate and all mounting hardware supplied
- Optional urethane weather hood

Part No.	Kit with Smart Interlock Technology	Temperature Range	Accessories
			Urethane Weather Hood
MEP801	Hose End Valve Holster	-	MEP801H
MEP801PIH	Hose End Valve Holster with (MEC) Smart Interlock Technology	-20° to +160°F.	MEP801H





## Quick Acting Dispensing Valves

Dispensing valves are designed to be used at the end of a filling hose on a bobtail, dispensing system or nurse tank filling operations. These valves have instant full-on flow with the added protection of a quick closing, self-locking handle to prevent accidental opening of the valve during transport.

### Quick Acting Dispensing Valve Features

- All stainless steel internal components
- Self-locking toggle handle prevents accidental operation
- Durable ductile iron valve body with automotive grade powder coat finish
- Toggle handle and stem assembly rotates 360°
- Stainless steel factory installed vent valve



Part No.		Inlet & Outlet (FNPT)	Accessories		
Angle	Globe		MNPT x 1-3/4 F. Acme Adapter		
			Short Brass	Short Steel*	Extended Steel*
ME810-4	ME820-4	1/2"	ME110 ME110C	-	ME635-4
ME810-6	ME820-6	3/4"	ME111 ME111C	ME111S ME111SC	ME635-6
ME810-8	ME820-8	1"	ME112 ME112C	ME112S ME112SC	ME635-8

\*Rated for LP-Gas & NH<sub>3</sub>

## Economy Quick Acting Dispensing Valves

Featuring **all stainless steel** internal components allowing for use in both LP Gas and NH<sub>3</sub> applications.

### Application:

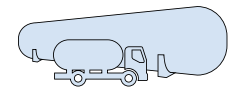
These dispensing valves provide the user with instant full-on, full-off flow with the added protection of a self-locking handle to prevent accidental opening of the valve.

### Features:

- Ductile and stainless steel construction
- Handle is self locking and rotates 360° User friendly handle is large enough to operate easily with gloved hands
- Includes 1/4" FNPT plugged port Half the weight of standard



Economy Quick Acting Dispensing Valves					
Part No.	Body Style	Inlet & Outlet Size	Accessories		
			Short Couplings		Extended Coupling
ME821-4	Globe	1/2" FNPT	-	ME110 Brass	ME635-4
ME821-6	Globe	3/4" FNPT	ME111S Steel	ME111 Brass	ME635-6



## Smart Interlock Technology

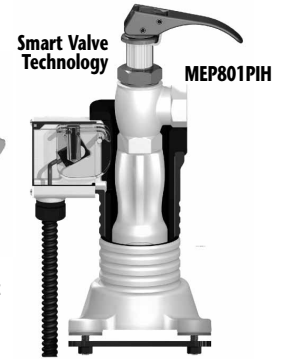
Designed to prevent a vehicle from being operated while the hose end delivery valve or loading line is in use. The smart interlock technology connects directly to the Allison Automatic Transmission through the "auxiliary function range inhibit" or braking system for manual transmission vehicles. This revolutionary system incorporates the industry's best and most durable sensor - TURCK - which is backed with a lifetime product warranty.

### Smart Interlock Technology

- "Potted" TURCK proximity switch for maximum security against vibration and weather resistance
- Supplied with water tight conduit and necessary wiring hardware to reach 5' below deck with water tight receptacle plug



ME868-16 & ME441F8 not included



MEP802PCK/20



MEP801PC/30

Part No.	Description	Temperature Range	No. of Relays	LED Power Indicator	Inline Fuse	Wire Length	Accessories
MEP801PIK	Interlock Retro Fit Kit for MEP801	-20° to +160° F.	-	-	-	-	MEP801PC/20 (20' Proximity Cable)
MEP801PIKL	Low Temperature Interlock Retro Fit Kit for MEP801	-50° to +160° F.	-	-	-	-	
ME868PIB	Sensor Bracket Assembly for ME868 Valve Series	-20° to +160° F.	-	-	-	-	
ME503PIB	Sensor Bracket Assembly for ME503-16 & ME252-16	-20° to +160° F.	-	-	-	-	MEP801PC/30 (30' Proximity Cable)
MEP801PCK/20	Wiring Harness Kit	-	1	Yes	Yes	20'	
MEP801PCK/30	Wiring Harness Kit	-	1	Yes	Yes	30'	Includes Water Tight Receptacle Plug
MEP802PCK/20	Wiring Harness Kit	-	2	Yes	Yes	20'	
MEP802PCK/30	Wiring Harness Kit	-	2	Yes	Yes	30'	
MEP803PCK/30	Wiring Harness Kit	-	3	Yes	Yes	30'	

Part No.	Description	Temperature Range	Accessories
ME200PIB	Sensor Bracket Assembly for ME200 Wheel Chocks	-20° to +160°F.	MEP801PC/20 (20' Proximity Cable)
ME200PIBK	Sensor Bracket Assembly with ME200 Wheel Chocks	-20° to +160°F.	
ME217PIB	Sensor Bracket Assembly for ME217 Series	-20° to +160°F.	
ME503PIB	Sensor Bracket Assembly for ME503-16 & ME252-16	-20° to +160°F.	MEP801PC/30 (30' Proximity Cable)
ME868PIB	Sensor Bracket Assembly for ME868 Valve Series	-20° to +160°F.	Includes Water Tight Receptacle Plug
ME890PIB	Universal Sensor Bracket Assembly for Enclosures	-20° to +160°F.	

## Smart Interlock Technology

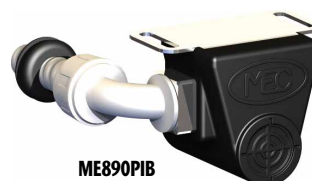
Designed to prevent a vehicle from being operated while the hose end delivery valve, loading line or wheel chocks are in use. The smart interlock technology connects directly to the Allison Automatic Transmission through the "auxiliary function range inhibit" or braking system for manual transmission vehicles. This revolutionary system incorporates the industry's best and most durable sensor, TURCK - which is backed with a lifetime product warranty.

### Smart Interlock Technology Features

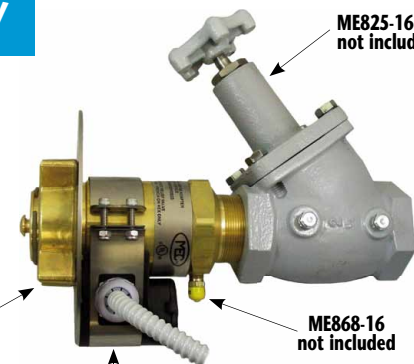
- "Potted" TURCK proximity switch for maximum weather resistance and security against vibration
- Supplied with water tight conduit and necessary wiring hardware to reach 5' below deck with water tight receptacle plug

### Sensor Bracket Assembly Features

- Smart interlock technology
- Molded urethane sensor body housing for durability and maximum sensor protection
- Stainless steel all weather mounting band and hardware



ME890PIB



ME441F8 not included

ME825-16 not included

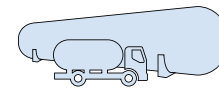
ME868-16 not included

ME868PIB



ME217PIB





## 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.

To increase flow up to 30 percent over standard hose end filler adapters use the Flo-Max hose end fill adapter (ME578). It is a full-flow, manually operated hose end fill adapter where the user controls whether the valve is open or closed, providing maximum protection against product discharge.

### Hose End Fill Adapter Features

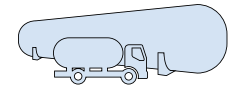
- Integral breakaway feature in the event of truck roll away leaving check intact on tank
- ME570, ME572, ME574, ME578 shortest overall height in the industry allowing adapters to fit inside tank hood
- ME571 has a floating internal seat design which allows check to swivel freely when installed on hose end valve
- Flo-Max (ME578) full-port design allows up to 30% More Flow
- Removable shutoff key and key ring supplied
- Extended versions provide an additional 7" for use on underground tanks
- Prevents pinching or cutting of the delivery hose on the protective tank collar
- Eliminates dangerous extensions that do not incorporate the appropriate fill check device
- Eliminates unsafe stacking of multiple fill check adapters to obtain the desirable fill connection height
- Overall length allows adapter to fit inside protective tank collar
- Optional heavy duty aluminum handle with a stainless steel 1-3/4" female Acme insert cast into the handle



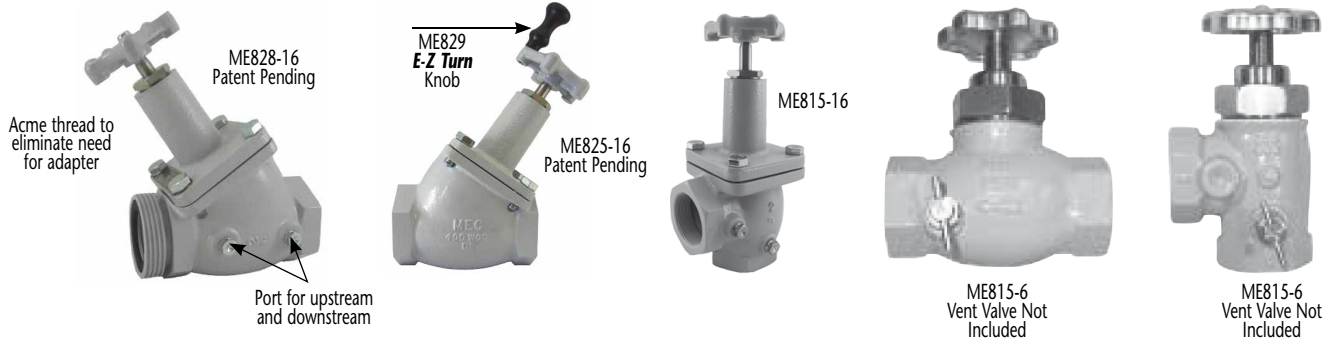
Part No.	Filler Valve F. Acme Connection	Hose End M. Acme Connection	Handle Style	Handle Material	Swivels	Factory Installed Vent Valve	Extended Version	Additional Keys
ME570	1-3/4"	1-3/4"	Standard	Brass	No	No	No	-
ME571	1-3/4"	1-3/4"	Standard	Brass	Yes*	No	No	-
ME572	1-3/4"	1-3/4"	Standard	Brass	Yes	No	No	-
ME572EXT	1-3/4"	1-3/4"	Standard	Brass	Yes	No	Yes	-
ME572EXTHD	1-3/4"	1-3/4"	Heavy Duty	Cast Aluminum	Yes	No	Yes	-
ME574	1-3/4"	1-3/4"	Standard	Brass	Yes	Yes	No	-
ME574EXT	1-3/4"	1-3/4"	Standard	Brass	Yes	Yes	Yes	-
ME574EXTHD	1-3/4"	1-3/4"	Heavy Duty	Cast Aluminum	Yes	Yes	Yes	-
ME578	1-3/4"	1-3/4"	Standard	Brass	Yes	No	No	ME578-02
ME578C	1-3/4"	1-3/4"	Heavy Duty	Brass	Yes	No	No	ME578-02

\*ME571 allows the hose end valve to swivel while connected to the filler hose end adapter





# High Flow Globe & Angle Valves



## High Flow Globe and Angle Valve Features

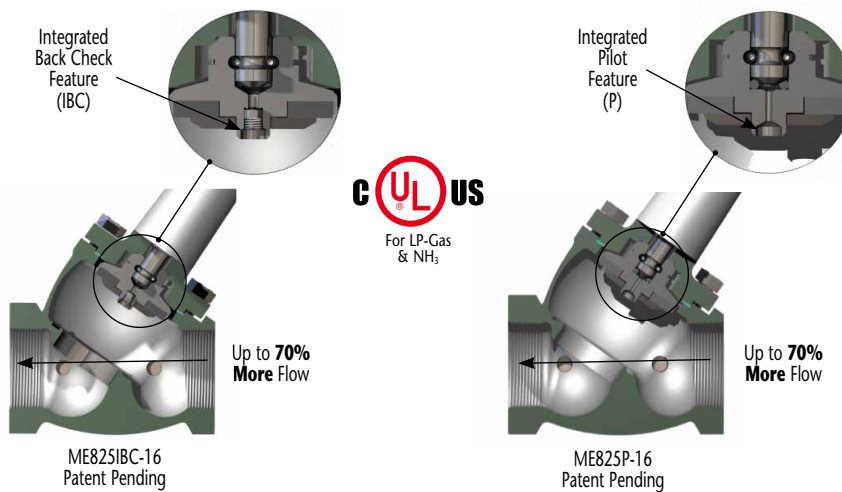
- All stainless steel internal components with rotating seat disc design & V-cup Teflon® packing stem seals
- Double stem seal design ensures leak free operation
- Double lead stem thread ensures quick and efficient operation
- Durable ductile iron valve body with automotive grade powder coat finish

- 1-1/4" & larger globe valves have 35° seat angle for maximum product flow
- 1-1/4" & larger globe valve designed ergonomically correct for bobtail transport and bulk plant applications
- 1-3/4", 2-1/4" & 3-1/4" Acme threads available on globe valves
- Rated for 400 WOG
- Operating temperature -40° to +212° Fahrenheit

Part No.		Inlet (FNPT)	Outlet	Side Port (FNPT)	No. of Side Ports	Flange Style Bonnet	Accessories		
Angle	Globe						E-Z Turn Knob	Hydrostatic Relief Valves	Vent Valves
ME815-4	ME825-4	1/2"	1/2" FNPT	1/4"	1	No	-	MEH225 MEH225SS MEH25/450	MEJ400 MEJ402S
ME815-6	ME825-6	3/4"	3/4" FNPT	1/4"	1	No	-		
ME815-8	ME825-8	1"	1" FNPT	1/4"	1	No	-		
ME815-10	ME825-10	1-1/4"	1-1/4" FNPT	1/4"	2	Yes	ME829		
-	ME826-10	1-1/4"	1-3/4" M. Acme	1/4"	2	Yes	ME829		
-	ME827-10	1-1/4"	2-1/4" M. Acme	1/4"	2	Yes	ME829		
ME815-12	ME825-12	1-1/2"	1-1/2" FNPT	1/4"	2	Yes	ME829		
ME815-16	ME825-16	2"	2" FNPT	1/4"	2	Yes	ME829		
-	ME824-16	2"	2" FNPT	1/2"	2	Yes	ME829	MEH50/460	-
-	ME828-16	2"	3-1/4" M. Acme	1/4"	2	Yes	ME829	MEH225 MEH225SS MEH25/450	MEJ400 MEJ402S
ME815-24	ME825-24	3"	3" FNPT	1/4"	2	Yes	included		

To order Teflon® or Viton® Seal add "T" for Teflon® and "V" for Viton® after the prefix part number i.e. ME815T-10 or ME815V-10

Teflon® is a trademark of DuPont Company and Viton® is a trademark of DuPont Performance Elastomers.



Part No.		Inlet (FNPT)	Outlet	Side Port (FNPT)	No. of Side Ports	Flange Style Bonnet	Accessories				
Angle	Globe						E-Z Turn Knob	Hydrostatic Relief Valves	Vent Valves		
Integrated Back Check	Pilot Feature	Integrated Back Check	Pilot Feature								
ME815IBC-16	ME815P-16	ME825IBC-16	ME825P-16	2"	2" FNPT	1/4"	2	Yes	ME829	MEH225 MEH225SS MEH25/450	MEJ400 MEJ402S
-	-	ME828IBC-16	ME828P-16	2"	3-1/4" M. Acme	1/4"	2	Yes	ME829	MEH225 MEH225SS MEH25/450	MEJ400 MEJ402S
-	-	ME824IBC-16	ME824P-16	2"	2" FNPT	1/2"	2	Yes	ME829	MEH50/460	-



## Full Internal Relief Valves

### MEV200FIR & MEV300FIR



#### Application:

Designed for use in mobile LPG & NH<sub>3</sub> 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, Viton®, or Kalrez® valve seals.
- Large seating surface for superior seal performance & reliability.
- Available with 250 & 265 PSI set pressures.

Part No.	STD / PSIG	Container Connection	Installation Hex	Flow Capacity SCFM/AIR**	Service		Seat Material
				UL @ 120% Set Pressure	LPG	NH <sub>3</sub>	
MEV200FIR/250	250	2" MNPT	1-1/2"	4460	Yes	Yes	Nitrile
MEV200FIR/265	265	2" MNPT	1-1/2"	4670	Yes	Yes	Nitrile
MEV200FIRV/250	250	2" MNPT	1-1/2"	4460	Yes	No	Viton®
MEV200FIRV/265	265	2" MNPT	1-1/2"	4670	Yes	No	Viton®
MEV200FIRK/250*	250	2" MNPT	1-1/2"	4460	Yes	Yes	Kalrez® ~
MEV200FIRK/265*	265	2" MNPT	1-1/2"	4670	Yes	Yes	Kalrez® ~
MEV300FIR/250	250	3" MNPT	2-1/2"	10865	Yes	Yes	Nitrile
MEV300FIR/265	265	3" MNPT	2-1/2"	11600	Yes	Yes	Nitrile
MEV300FIRV/250	250	3" MNPT	2-1/2"	10865	Yes	No	Viton®
MEV300FIRV/265	265	3" MNPT	2-1/2"	11600	Yes	No	Viton®
MEV300FIRK/250*	250	3" MNPT	2-1/2"	10865	Yes	Yes	Kalrez® ~
MEV300FIRK/265*	265	3" MNPT	2-1/2"	11600	Yes	Yes	Kalrez® ~

\* Seat Material not UL listed

\*\* Flow rates are shown as bare relief valves.

\*\*\* Size relief capacity per NFPA 58 2011, table 5.7.2.6

~ Recommended for LPG & NH<sub>3</sub> Dual Service Applications

#### Accessories

Part No.	Description
ME200FIR-09	2" Internal Relief Valve Cap & Lanyard
ME300FIR-09	3" Internal Relief Valve Cap & Lanyard
MEP200FIR	1-1/2" Hex Installation Tool for MEV200FIR Valves
MEP300FIR	2-1/2" Hex Installation Tool for MEV300FIR Valves

## Flanged Full Internal Relief Valves


**MEV300FIR-3F**


### Application:

Designed for use in mobile LPG & NH<sub>3</sub> 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, Viton®, or Kalrez® valve seals.
- Large seating surface for superior seal performance & reliability.
- Available with 250 & 265 PSI set pressures.

Part No.	STD / PSIG	Container Connection	Flow Capacity SCFM/AIR**	Service		Seat Material
			UL @ 120% Set Pressure	LPG	NH <sub>3</sub>	
<b>MEV300FIR-3F/250</b>	250	3" 300LB. Flange	10865	Yes	Yes	Nitrile
<b>MEV300FIR-3F/265</b>	265	3" 300LB. Flange	11600	Yes	Yes	Nitrile
<b>MEV300FIRV-3F/250</b>	250	3" 300LB. Flange	10865	Yes	No	Viton®
<b>MEV300FIRV-3F/265</b>	265	3" 300LB. Flange	11600	Yes	No	Viton®
<b>MEV300FIRK-3F/250*</b>	250	3" 300LB. Flange	10865	Yes	Yes	Kalrez® ~
<b>MEV300FIRK-3F/265*</b>	265	3" 300LB. Flange	11600	Yes	Yes	Kalrez® ~

\* Seat Material not UL listed

\*\* Flow rates are shown as bare relief valves.

\*\*\* Size relief capacity per NFPA 58 2011, table 5.7.2.6

~ Recommended for LPG & NH<sub>3</sub> Dual Service Applications

### Accessories

Part No.	Description
<b>ME300FIR-09</b>	3" Internal Relief Valve Cap & Lanyard

## Semi Internal Relief Valves

### MEV200SIR



#### Application:

Designed for use in large stationary LPG containers as a primary pressure relief valve. These pressure relief valves have been specifically designed to provide optimum performance when installed in either a 2" half or a 2" full coupling making them perfect for most large stationary tank installations.

**Note: Available with all stainless steel construction for NH<sub>3</sub> service applications.**

#### Features:

- Durable forged brass body with 2" NPT and 3" NPT inlet pipeaway thread
- All steel & stainless steel stem, spring, and valve gasket holder for maximum corrosion resistance
- Available with Nitrile, Viton®, or Kalrez® valve seals
- Large seating surface for superior seal performance & reliability
- Available with 125, 250 & 265 PSI set pressures

Part No.	STD / PSIG	Container Connection	Installation Hex	Flow Capacity SCFM/AIR**	Service		Seat Material
				UL @ 120% Set Pressure	LPG	NH <sub>3</sub>	
MEV200SIR/125	125	2" MNPT	3-1/2"	4,870	Yes	No	Nitrile
MEV200SIR/250	250	2" MNPT	3-1/2"	10,925	Yes	No	Nitrile
MEV200SIR/265	265	2" MNPT	3-1/2"	11,475	Yes	No	Nitrile
MEV200SIRV/125	125	2" MNPT	3-1/2"	4,870	Yes	No	Viton®
MEV200SIRV/250	250	2" MNPT	3-1/2"	10,925	Yes	No	Viton®
MEV200SIRV/265	265	2" MNPT	3-1/2"	11,475	Yes	No	Viton®
MEV200SIRK/125*	125	2" MNPT	3-1/2"	4,870	Yes	No	Kalrez®
MEV200SIRK/250*	250	2" MNPT	3-1/2"	10,925	Yes	No	Kalrez®
MEV200SIRK/265*	265	2" MNPT	3-1/2"	11,475	Yes	No	Kalrez®

\* Seat Material not UL listed

\*\* Flow rates are shown as bare relief valves.

\*\*\* Size relief capacity per NFPA 58 2011, table 5.7.2.6

#### Accessories

Part No.	Description
MEV200SIR-106	2" Semi Internal Relief Valve Cap & Lanyard
MEP104-24	3" FNPT X 3" FNPT Pipeaway Adapter - Zinc Plated Steel

## High Flow Bypass Valves For Bobtail Truck - Plant Applications

### Application:

These bypass valves are specifically designed to protect truck and plant pumps from damage due to excessive pressure while providing the industry's best bypass flow rates across a full range of set pressures. They feature wide open flow channels with an orifice weep hole chamber to prevent the valve from slamming open / closed. The weep hole chamber also helps to prevent valve seat chatter by allowing constant pressure communication both upstream and downstream of the seat.

### Features:

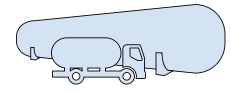
- All ductile iron body and bonnet
- All stainless steel wetted components
- Wide open flow channels for industry best flow rates
- Orifice weep hole to maintain constant pressure above and below valve seat
- Large range of set pressure springs
- Weldable steel NPT and socket weld flanges
- Zinc dichromate finish for maximum corrosion resistance
- Available with or without flanges assembled
- Available 1-1/4" through 2" NPT and socket weld flange ends
- Universal 4 bolt, flanged body configuration
- Two 1/4" FNPT plugged auxiliary pressure ports
- Heavy duty protective stem cap



Part No.	Description	Spring Range
<b>ME840-10-125</b>	1-1/4" FNPT High Flow Bypass Valve	91-125 PSI
<b>ME841-10-125</b>	1-1/4" Socket Weld High Flow Bypass Valve	91-125 PSI
<b>ME840-12-125</b>	1-1/2" FNPT High Flow Bypass Valve	91-125 PSI
<b>ME841-12-125</b>	1-1/2" Socket Weld High Flow Bypass Valve	91-125 PSI
<b>ME840-16-125</b>	2" FNPT High Flow Bypass Valve	91-125 PSI
<b>ME841-16-125</b>	2" Socket Weld High Flow Bypass Valve	91-125 PSI
<b>ME840-125</b>	1-1/4" - 2" Universal High Flow Bypass w/o Flanges	91-125 PSI

Universal Flange Kits	
Part No.	Description
<b>ME840-10F</b>	1-1/4" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
<b>ME841-10F</b>	1-1/4" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
<b>ME840-12F</b>	1-1/2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
<b>ME841-12F</b>	1-1/2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
<b>ME840-16F</b>	2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
<b>ME841-16F</b>	2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
<b>MEP840-10</b>	1-1/4" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
<b>MEP841-10</b>	1-1/4" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
<b>MEP840-12</b>	1-1/2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
<b>MEP841-12</b>	1-1/2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
<b>MEP840-16</b>	2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
<b>MEP841-16</b>	2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring

Parts & Accessories	
Part No.	Description
<b>ME840K</b>	1-1/4" - 2" Complete Bypass Repair Kit - Less Spring
<b>ME840SRK</b>	1-1/4" - 2" Bypass Seal Repair Kit
<b>ME840-16-108-40</b>	1-1/4" - 2" Bypass Valve Spring 20-40 PSI
<b>ME840-16-108-70</b>	1-1/4" - 2" Bypass Valve Spring 41-70 PSI
<b>ME840-16-108-90</b>	1-1/4" - 2" Bypass Valve Spring 71-90 PSI
<b>ME840-16-108-125</b>	1-1/4" - 2" Bypass Valve Spring 91-125 PSI
<b>ME840-16-108-150</b>	1-1/4" - 2" Bypass Valve Spring 126-150 PSI
<b>ME868-16-05</b>	1-1/4" - 2" Universal 4 Bolt Flange O-Ring
<b>ME840-16-109</b>	1-1/4" - 2" Universal Bonnet O-Ring
<b>ME840-16-110</b>	1-1/4" - 2" Universal Spring Guide O-Ring
<b>ME840-16-104</b>	1-1/4" - 2" Universal Valve Poppet - Stainless Steel



## High Flow Bypass Valves for Dispensing Applications

### Application:

Intended for use in small cylinder filling applications as a bypass and primer valve for turbine style dispensing pumps. These bypass valves have a special "check ball" mechanism that helps eliminate vapor from liquid while keeping the pump flooded and properly primed. The priming and vapor elimination feature reduces pump wear and promotes seal longevity.

### Features:

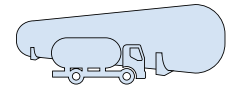
- All ductile iron body and bonnet
- Large range of set pressure springs
- Two 1/4" FNPT plugged auxiliary pressure ports
- Stainless steel main valve poppet
- Heavy duty protective stem cap
- Available in 3/4" & 1" FNPT versions
- Factory set at 125 PSI
- Durable powder coat finish

**ME840-6/150**



Part No.	Description	Spring Range
<b>ME840-6-150</b>	3/4" FNPT High Flow Bypass Valve	50-150 PSI
<b>ME840-8-150</b>	1" FNPT High Flow Bypass Valve	50-150 PSI

Parts & Accessories	
Part No.	Description
<b>ME840-6K</b>	3/4" - 1" Complete Bypass Repair Kit - Less Spring
<b>ME840-6SRK</b>	3/4" - 1" Bypass Seal Repair Kit
<b>ME840-8-108-60</b>	3/4" - 1" Bypass Valve Spring 25-60 PSI
<b>ME840-8-108-150</b>	3/4" - 1" Bypass Valve Spring 50-150 PSI
<b>ME840-8-108-225</b>	3/4" - 1" Bypass Valve Spring 100-225 PSI
<b>ME870-24-06</b>	3/4" - 1" Bypass Valve Replacement Bonnet O-Ring



## 3" Bypass Valve for Plant Applications

### Application:

Specifically designed for plant systems where maximum bypass flow is necessary to protect the pump from rapid pressure changes or over pressurization. Perfectly suited for 4" base mount pumps or larger pump applications.

### Features:

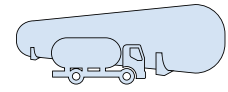
- All ductile iron body and bonnet
- All stainless steel wetted internal components
- Bonnet / seat positioned at 35° angle for maximum product flow
- Downstream bleed port to boost product flow during bypass
- Two 1/4" FNTP plugged pressure ports
- Heavy duty protective stem cap
- Durable powder coat finish
- Factory set at 100 PSI



**ME840-24/150**

Part No.	Description	Spring Range
ME840-24-150	3" FNPT High Flow Bypass Valve	76-150 PSI

Parts & Accessories	
Part No.	Description
ME840-24K	3" Complete Bypass Repair Kit - Less Spring
ME840-24SRK	3" Bypass Seal Repair Kit
ME840-24-105-75	3" Bypass Valve Spring 25-75 PSI
ME840-24-105-150	3" Bypass Valve Spring 76-150 PSI



## Combination Valves



Developed to mount a pressure gauge and fixed tube liquid level gauge all in one valve. The shutoff portion of the valve increases the pressure gauge's life and accuracy by eliminating constant gauge pressure and allows for easy gauge replacement. To replace a gauge simply close the valve and open the vent valve to relieve pressure before disassembling pressure gauge.

The valve can be installed at the maximum fill level or an 1/8" MNPT dip tube can be installed on the container connection side to set any liquid level desired. For use in ASME bulk storage containers and DOT transport tank installations.

### Combination Valve Features

- All steel and stainless steel component construction
- Integral #54 orifice provides gauge dampening protection
- Durable ductile iron body with automotive grade powder coat finish or plated steel body



Part No.	Material	Container Connection MNPT	Two Service Connections FNPT	Dip Tube Connection FNPT	Accessories	
					Stainless Steel Vent Valve	Stainless Steel 0-400 PSIG Pressure Gauge
ME830	Ductile Iron	3/4" MNPT	1/4" FNPT	1/8"	Included	MEJ526 MEJ542
MEJ415	Steel	3/4" MNPT	1/4" FNPT	1/8"	MEJ402S	MEJ542
MEJ415G	Steel	3/4" MNPT	1/4" FNPT	1/8"	Included	Included

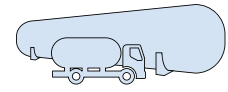
## Container Thermometers



Designed for use in LP-Gas or NH3 storage tanks, nurse tanks, bobtails and transports. These stainless steel, dust and water proof thermometers have 1/2" MNPT connection with a temperature range from -40° to +120° Fahrenheit.

Part No.	Dial Diameter	Probe Length
MEJ700	2"	4"
MEJ701	2"	6"
MEJ702	3"	4"
MEJ703	3"	6"





# Liquid Transfer Valves & Adapters

Designed to provide a safe means by which to transfer liquid from a tank during an emergency or container relocation. These valves can be equipped with an integral excess flow device for direct product transfer or without when used in conjunction with liquid withdrawal adapter (ME458 Series) and tank valve (ME460 & ME462 Series).

**Warning:** An excess flow valve will not activate if there is a break or leak downstream of the valve that does not equal or exceed the closing flow of the valve or if the excess flow valve installed exceeds the flow capacity of the system. See the Excess Flow Warning page for more information regarding the use of excess flow.

## Liquid Transfer Valve Features

- Double O-ring stem seal design ensures leak free operation
- Double lead stem thread ensures quick and efficient operation
- 3/4" MNPT inlet x 3/4" FNPT outlet
- Additional features for steel transfer valves
- All stainless steel internal components
- Durable ductile iron valve body with automotive grade powder coat finish
- Equipped with convenient upstream and downstream 1/4" FNPT plugged ports for optional accessories



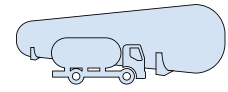
## Tank Valve Features

- Provides excess flow protection in the event of a downstream connection or line failure
- Safety breakaway feature leaves valve seals intact in the event of truck roll-away
- 6-14 psig closing flow pressure differential for maximum product transfer
- Fully interchangeable with all existing valve models and adapters
- Additional features for steel and stainless steel tank valves
  - Meets requirements for installation into DOT storage containers like bobtails and transports
  - Steel model features a rust inhibitor compound between the cap and threads to prevent corrosion



Part No.	Material	Excess Flow	Closing Flow/GPM	Accessories						Hydrostatic Relief Valve	Vent Valve
				Liquid Withdrawal Adapter 3/4" FNPT x 1-5/8" UNF		Liquid Withdrawal Tank Valve 1-5/8" UNF Male					
				Brass	Steel*	3/4" MNPT	1-1/4" MNPT		Stainless Steel*		
ME449	Brass	No	-	ME458	ME458S	ME460	ME462	-	-	MEH225 MEH25/450	MEJ400 MEJ400SC MEJ400/72 MEJ402S
ME449H	Brass	No	-	ME458	ME458S	-	-	-	-	Factory Installed MEH225	
ME449S	Ductile Iron*	No	-	-	ME458S	-	-	ME462S	ME462SS	MEH225SS/300 MEH225SS/400 MEH225SS/440	
ME449EXS/22	Ductile Iron*	Yes	22	-	-	-	-	-	-		
ME449EXS/28	Ductile Iron*	Yes	28	-	-	-	-	-	-		

\* Rated for LP-Gas & NH3



# ACME Adapters

Part No.			M. Acme	FNPT	MNPT
Brass		Steel*			
No Screen	Factory Installed Screen				
ME498-4/2	-	-	1-1/4"	1/4"	1/2"***
ME498-6/3	-	-	1-1/4"	3/8"	3/4"***
ME192	-	-	1-1/4"	1/2"	-
ME193	-	-	1-1/4"	3/4"	-
ME210	-	-	1-3/4"	1/4"	-
ME211	-	-	1-3/4"	3/8"	-
ME212	-	-	1-3/4"	1/2"	-
ME213	-	ME213S	1-3/4"	3/4"	-
ME214	-	ME214S	1-3/4"	1"	-
ME502-12/8	-	-	2-1/4"	1"	1-1/2"***
ME502-16/10	-	ME502S-16/10	2-1/4"	1-1/4"	2"***
ME502-16/12	-	-	2-1/4"	1-1/2"	2"***
ME250	ME250A	-	3-1/4"	1-1/4"	-
ME251	ME251A	-	3-1/4"	1-1/2"	-
ME252-16	ME252A-16	ME252S-16	3-1/4"	2"	-
ME508-24	ME508A-24	ME508S-24	3-1/4"	3"	-

\* Rated for LP-Gas & NH<sub>3</sub>  
 \*\* Male Thread Outside & Female Thread Inside



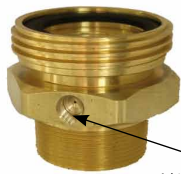
ME192



ME212



ME252S-16



ME503J-16

1/4" FNPT with vent Valve & #54 orifice



ME503JB-16

Brass Vent Valve



ME503JS-16

Stainless steel Vent Valve



For LP-Gas & NH<sub>3</sub>

Part No.						M. Acme	FNPT/MNPT
Brass			Steel*				
Factory Machined 1/4" FNPT with Vent Hole	Factory Installed Brass Vent Valve	Factory Installed Stainless Steel Vent Valve	Factory Machined 1/4" FNPT with Vent Hole	Factory Installed Brass Vent Valve	Factory Installed Stainless Steel Vent Valve		
ME252J-16	ME252JB-16	ME252JS-16	ME252SJ-16	ME252SJB-16	ME252SJS-16	3-1/4"	2" FNPT
ME503J-16	ME503JB-16	ME503JS-16	ME503SJ-16	ME503SJB-16	ME503SJS-16	3-1/4"	2" MNPT

To add a factory installed screen use an "A" after the prefix number i.e. ME252AJB-16  
 \* Rated for LP-Gas & NH<sub>3</sub>

# ACME Adapters

Part No.			M. Acme	MNPT	FNPT
Brass		Steel*			
No Screen	Factory Installed Screen				
ME498-4/2	-	-	1-1/4"	1/2"	1/4"***
ME498-6/3	-	-	1-1/4"	3/4"	3/8"***
-	-	ME520S-8	1-1/4"	1"	-
-	-	ME521S-4	1-3/4"	1/2"	-
ME215	-	ME215S	1-3/4"	3/4"	-
ME216	-	ME216S	1-3/4"	1"	-
ME217	ME217A	ME217S	1-3/4"	1-1/4"	-
ME233	-	ME233S	2-1/4"	1-1/4"	-
ME502-12/8	-	-	2-1/4"	1-1/2"	1"***
ME502-16/10	-	ME502S-16/10	2-1/4"	2"	1-1/4"***
ME502-16/12	-	-	2-1/4"	2"	1-1/2"***
ME503-16	-	ME503S-16	3-1/4"	2"	-
ME503-20	-	-	3-1/4"	2-1/2"	-
ME262	-	ME262S	3-1/4"	3"	-

\* Rated for LP-Gas & NH<sub>3</sub>  
 \*\* Male Thread Outside & Female Thread Inside



ME215S



ME503-16



Acme Adapter with Screen

Part No.		M. Acme	M. Acme
Brass	Steel *		
ME270	-	1-1/4"	1-1/4"
ME273	ME273S	1-3/4"	1-3/4"
ME275	ME275S	2-1/4"	2-1/4"
ME277	ME277S	3-1/4"	3-1/4"

\* Rated for LP-Gas & NH<sub>3</sub>

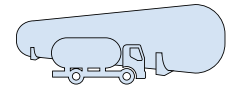


Part No.		M. Acme	Female UNC Thread
Brass	Steel *		
ME209	ME209S	1-3/4"	3/8"-16

To hold hose end valve secure when not in use  
 \* Rated for LP-Gas & NH<sub>3</sub>



For LP-Gas & NH<sub>3</sub>



## ACME Reducer Couplings



ME442

Part No.		F. Acme	M. Acme
Brass	Steel *		
ME611	ME611S	2-1/4"	1-3/4"
ME612	ME612S	3-1/4"	1-3/4"
ME614	-	3-1/4"	2-1/4"
ME442	-	3-1/4"	1-1/4" FNPT

\* Rated for LP-Gas & NH<sub>3</sub>



ME612S

## ACME Caps



ME229



ME441RS



ME441F-1  
Chain Included

Knob with Chain



ME229EL  
1-3/4" F. Acme  
x 1/2" Male  
Flare 90°

ME109-NH3-1



Brass		Plastic		Steel **		F. Acme	Style	Accessory Chain Only***
Cap Only	Cap with Chain	Cap Only	Cap with Chain	Cap Only	Cap with Chain			
-	-	ME108	ME108-1	-	-	1-1/4"	Pin Hole	MEP147
ME229	ME229-1	ME109 or ME109-NH3*	ME109-1 or ME109-NH3-1*	ME229S	ME229S-1	1-3/4"	Pin Hole	MEP148
ME229F	ME229F-1	-	-	ME229FS	ME229FS-1	1-3/4"	Knob	MEP167
ME431F	ME431F-1	-	-	ME431FS	ME431FS-1	2-1/4"	Knob	MEP167
ME431R	ME431R-1	-	-	-	-	2-1/4"	Tapped hole	MEP167
-	-	ME106	ME106-1	-	-	3-1/4"	Pin Hole	MEP183
ME441F	ME441F-1	-	-	ME441FS	ME441FS-1	3-1/4"	Knob	MEP167
ME441R	ME441R-1	-	-	ME441RS	ME441RS-1	3-1/4"	Tapped hole	MEP167

\* Rated for NH<sub>3</sub>

\*\* Rated for LP-Gas & NH<sub>3</sub>

\*\*\* MEP147 ring fits over 3/4" MNPT—MEP148 ring fits over 1-1/4" MNPT

## ACME Caps

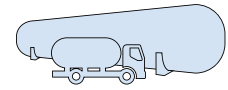
The flange allows for easy operation of the pneumatic or proximity interlock switches which control the safety systems of transport vehicles. The flange is 8" diameter stainless steel, flush mounted to a 3-1/4" Acme cap.

Part No.				F. Acme	Style	Accessory Chain Only
Brass		Steel **				
Cap with Flange	Cap with Flange & Chain	Cap with Flange	Cap with Flange & Chain			
ME441F8	ME441F8-1	ME441FS8	ME441FS8-1	3-1/4"	Knob	MEP167
ME441R8	ME441R8-1	-	-	3-1/4"	Tapped hole	MEP67

\* Rated for LP-Gas & NH<sub>3</sub>



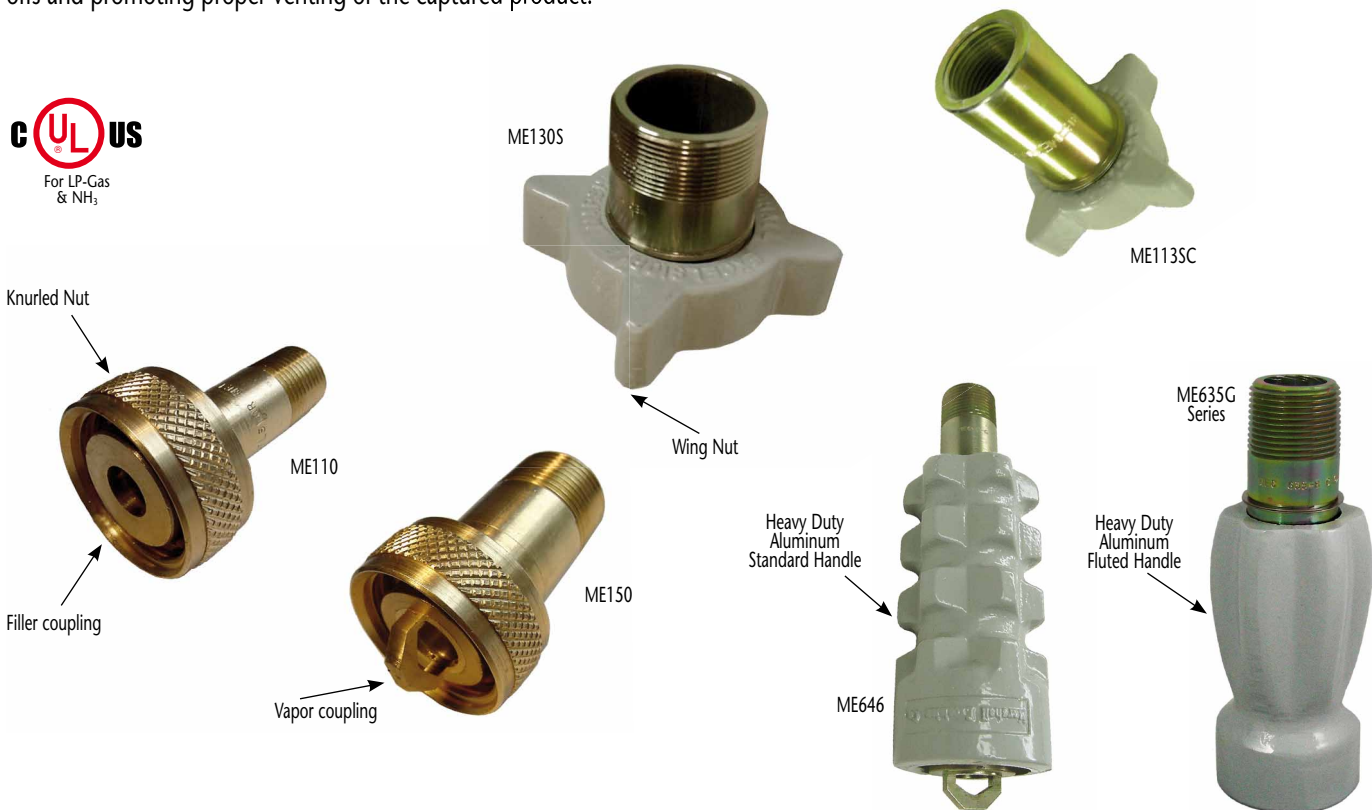
ME441F8



# Filler & Vapor Couplings

These couplings are used as connections between the hose and transfer valve. The filler coupling is designed to provide different connections for the end of a hose (inlet) or an angle, globe or quick acting valve (outlet) when transferring liquid. The vapor coupling is designed to be used with valves having an upper check mechanism. The nose piece on the vapor coupling opens the check valve allowing vapor equalization.

The extended style has a stainless steel female Acme nut insert cast into the heavy duty aluminum handle. All filler and vapor couplings come with a factory installed retaining ring unless noted. The retaining ring limits the travel of the handle or nut during disconnect reducing spin-offs and promoting proper venting of the captured product.



Service Type	Part No.							F. Acme	MNPT
	Brass		Brass Wing Nut/Steel Nipple	Steel*					
	Knurled Nut	Wing Nut		Knurled Nut	Wing Nut	Extended Handle			
			Standard	Fluted					
Liquid	ME100	-	-	-	-	-	-	1-1/4"	3/8"
	ME101	-	-	-	-	-	-	1-1/4"	1/2"
	ME110	ME110C	-	-	-	ME635-4	ME635G-4	1-3/4"	1/2"
	ME111	ME111C	-	ME111S	ME111SC	ME635-6	ME635G-6	1-3/4"	3/4"
	-	-	-	-	ME113SC	-	-	1-3/4"	3/4" FNPT
	ME112	ME112C	-	ME112S	ME112SC	ME635-8	ME635G-8	1-3/4"	1"
	-	-	-	-	-	ME635-10	ME635G-10	1-3/4"	1"
	-	ME120**	ME120S**	-	ME121S**	-	-	2-1/4"	1-1/4"
	-	ME120WR	ME120SWR	-	ME121SWR	-	-	-	-
	-	ME130B**	ME130S**	-	ME130S**	-	-	3-1/4"	2"
-	ME130BWR	ME130WR	-	ME130SWR	-	-	-	-	
Vapor	ME140	-	-	-	-	-	-	1-1/4"	3/8"
	ME141	-	-	ME141S	-	-	-	1-1/4"	1/2"
	-	-	-	-	-	ME646-4	ME646G-4	1-3/4"	1/2"
	ME150	ME150C	-	ME150S	ME150SC	ME646-6	ME646G-6	1-3/4"	3/4"
	ME151	ME151C	-	ME151S	ME151SC	ME646-8	ME646G-8	1-3/4"	1"
	-	-	-	-	-	-	-	1-3/4"	1-1/4"
	-	-	ME160	ME160S	-	-	-	2-1/4"	1-1/4"

\* Rated for LP-Gas & NH<sub>3</sub>

\*\* Does not include a factory installed retaining ring

## Quad-Port Relief Valve Manifold

Designed for use with large LP-Gas and NH<sub>3</sub> stationary storage containers with flanged openings. These relief manifolds have an additional relief valve excluded from the flow rating, which allows for service and/or exchange of any one relief valve without evacuating the tank. Our large port selection handle allows for each specific valve port to be closed off so that the relief valve may be removed while the remaining valves remain under pressure protecting the tank and contents. Each manifold model is rated based on the flow through the relief valves with one valve removed from service.

### External Pressure Relief Valve Features

- Heavy duty ductile iron body
- Durable V-cup Teflon® packing stem seals
- Molded rubber weather guard for manifold rotary gear with port plug
- Integral breakaway feature leaves seat and seal intact
- Weep hole deflector and hex socket plugs supplied
- Integrated pilot equalizing feature
- Corrosion resistant finish
- Convenient lifting chain included
- 3-1/2" -8 outlet thread accepts 3" MNPT pipeaway



Part No.	Flange Size	No of Relief Valves	Application	Flow Capacity SCFM/Air*** UL @ 120% Set Pressure	Factory Installed Relief Valve			Accessory
					Seal Material*	Start-to-Discharge Setting PSIG	Part No.	8 Stud/Nut Universal Mounting Kit
ME903S-3F/250VM	3" - 300# **	3	LPG	20,400 (2)	Viton®	250	MEV250VM/250	ME904SK
ME903S-3F/250CN	3" - 300# **	3	LPG & NH <sub>3</sub>	20,400 (2)	Nitrile	250	MEV250CN/250	ME904SK
ME903S-4F/250VM	4" - 300#	3	LPG	20,400 (2)	Viton®	250	MEV250VM/250	ME904SK
ME903S-4F/250CN	4" - 300#	3	LPG & NH <sub>3</sub>	20,400 (2)	Nitrile	250	MEV250CN/250	ME904SK
ME904S-3F/250VM	3" - 300# **	4	LPG	27,740 (3)	Viton®	250	MEV250VM/250	ME904SK
ME904S-3F/250CN	3" - 300# **	4	LPG & NH <sub>3</sub>	27,740 (3)	Nitrile	250	MEV250CN/250	ME904SK
ME904S-4F/250VM	4" - 300#	4	LPG	27,740 (3)	Viton®	250	MEV250VM/250	ME904SK
ME904S-4F/250CN	4" - 300#	4	LPG & NH <sub>3</sub>	27,740 (3)	Nitrile	250	MEV250CN/250	ME904SK
ME903S-3F/265VM	3" - 300# **	3	LPG	20,555 (2)	Viton®	265	MEV250VM/265	ME904SK
ME903S-3F/ 265CN	3" - 300# **	3	LPG & NH <sub>3</sub>	20,555 (2)	Nitrile	265	MEV250CN/265	ME904SK
ME903S-4F/ 265VM	4" - 300#	3	LPG	20,555 (2)	Viton®	265	MEV250VM/265	ME904SK
ME903S-4F/ 265CN	4" - 300#	3	LPG & NH <sub>3</sub>	20,555 (2)	Nitrile	265	MEV250CN/265	ME904SK
ME904S-3F/ 265VM	3" - 300# **	4	LPG	28,550 (3)	Viton®	265	MEV250VM/265	ME904SK
ME904S-3F/ 265CN	3" - 300# **	4	LPG & NH <sub>3</sub>	28,550 (3)	Nitrile	265	MEV250CN/265	ME904SK
ME904S-4F/ 265VM	4" - 300#	4	LPG	28,550 (3)	Viton®	265	MEV250VM/265	ME904SK
ME904S-4F/ 265CN	4" - 300#	4	LPG & NH <sub>3</sub>	28,550 (3)	Nitrile	265	MEV250CN/265	ME904SK
* Nitrile not UL Listed				*** Flow rating based on number of valves indicated in parenthesis ()				
** For use with modified 300 # ANSI Flange with 4" port				Flow rates are shown as bare relief valves, pipeaways will reduce flow				

Teflon® is a trademark of DuPont Company and Viton® is a trademark of DuPont Performance Elastomers.

## External Pressure Relief Valve



### VS 60

70.0.090.0080

Safety relief valve with big capacity.

Designed for installation on ASME containers such as bulk plant, skid tanks, underground and above ground containers, as the primary pressure relief valve.



### PRV 250

66.0.290.1139

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



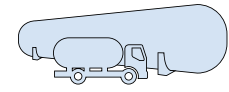
### PRV 375

66.0.290.1140

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

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% CAPACITY Nm <sup>3</sup> /min. (If not specified otherwise)	Approval	PRV Orifice (mm)
			taper					
70.0080 (VS 60) - PRV	2 1/2" NPT	110	x	10000 lt.	basic 17,65**	260,00	CE***	45,00
66.1139 - PRV	1/4-18 NPT	22	x	-	17,24	18,41 (at 120%O.P. SCFM-AIR)	UL/ASME	19,00
66.1140 - PRV	1/4-18 NPT	22	x	-	25,85	33,52 (at 120%O.P. AIR)	UL	19,00



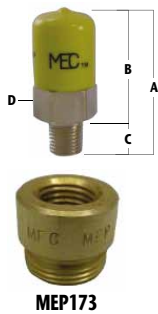
## Hydrostatic Pressure Relief Valves

Designed to protect piping and shutoff valves from over pressure situations where liquid LP-Gas or NH3 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.

Note: NFPA #58 states, "Hydrostatic relief valves designed to relieve the hydrostatic pressure that can develop in sections of liquid piping between closed shutoff valves shall have pressure settings not less than 400 psig or more than 500 psig unless installed in systems designed to operate above 350 psig. Hydrostatic relief valves for use in systems designed to operate above 350 psig shall have settings not less than 110 percent or more than 125 percent of the system design pressure."

### Hydrostatic Relief Valve Features

- Compact design to fit any application
- Stainless steel spring
- Non-adjustable, tamper resistant design
- Stainless steel models rated for LP-Gas & NH3
- Specially designed internal components to increase flow at discharge



Part No.	Body Material	Seal Material	Start-to-Discharge Setting PSIG	Inlet MNPT	A	B	C	D	Accessory
									Pipeway Adapter
MEH225	Brass	Nitrile	440	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	-
MEH225SS/350	Stainless Steel	Nitrile	350	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	-
MEH225SS/400	Stainless Steel	Nitrile	400	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	-
MEH225SS/440	Stainless Steel	Nitrile	440	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	-
MEH25/450	Brass	Nitrile	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173*
MEH25V/450	Brass	Viton®	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173*
MEH50/460	Brass	Nitrile	460	1/2"	2-1/2"	2-1/8"	3/8"	1-1/8" Hex	MEP174**
MEH75/460	Brass	Nitrile	460	3/4"	2-21/32"	2-5/32"	1/2"	1-1/8" Hex	MEP174**

\* 1/4" FNPT Outlet; \*\* 1/2" FNPT Outlet  
Viton® is a trademark of DuPont Performance Elastomers.

## Vent Valves

Marshall Excelsior is the only manufacturer in the industry that offers three types of vent valves - **Low Emission, Self-Cleaning Low Emission, and Standard Vent Valves**. All the vent valves below are designed to minimize loss of product while allowing the operator to effectively bleed down connections and detect liquid levels while filling containers. Vent valves provide an effective means to verify valves have closed in the transfer system when installed into the downstream auxiliary port on the Marshall Excelsior globe and angle valves. Opening the vent valve until liquid or vapor stops venting indicates it is safe to disconnect.

All brass versions have knurled stems that completely unscrew from the valve making the stems replaceable. The stainless steel version has a t-handle stem that is non-removable.

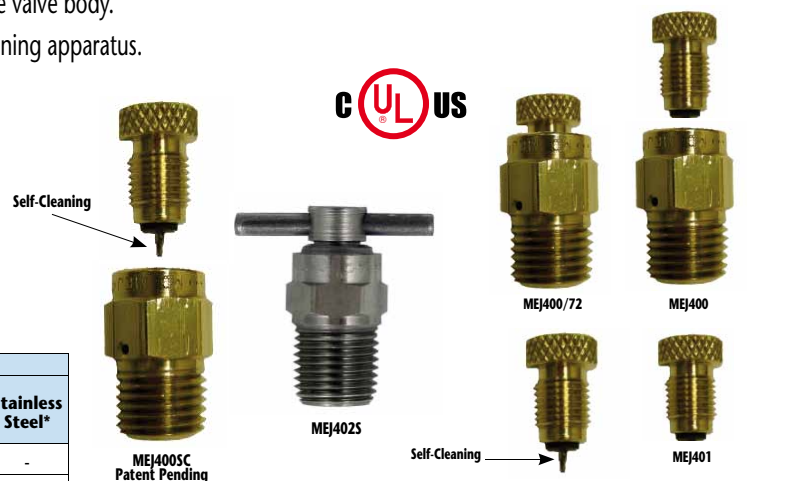
The **Low Emission Vent Valve** and the **Self-Cleaning Low Emission Vent Valve** reduce emissions by **70 Percent** during normal container filling operations. The **Self-Cleaning Low Emission Vent Valve** cleans out the orifice hole each time it is operated. The hole is cleaned out with a #54 orifice drill that reams the valve's orifice hole each time the adjusting screw is loosened or tightened, eliminating nuisance orifice clogging. The reduced venting emissions is achieved by forcing product to pass between the #54 orifice hole and the flutes of the captured self-cleaning apparatus. The self-cleaning replacement screw (MEJ401SC) is compatible with all existing standard vent valve bodies allowing a standard vent valve to be converted into a self-cleaning low emission vent valve without reinstalling the valve body.

The **Standard Vent Valve** has a #54 orifice with no self-cleaning apparatus.

The **Low Emission Vent Valve** has a #72 orifice.

### Vent Valve Features

- 70% emission reduction with our Self-Cleaning and Low Emission vent valves
- 1/4" MNPT Connection
- Available with dip tubes.  
See fixed maximum liquid level gauges



Type	Part No.		
	Brass	Brass Replacement Stems	Stainless Steel*
Low Emission #72 Orifice	MEJ400/72	MEJ401	-
Self-Cleaning Low Emission #54 Orifice	MEJ400SC	MEJ401SC	-
Standard #54 Orifice	MEJ400	MEJ401 - MEJ401SC	MEJ402S

\* Rated for LP-Gas & NH3





## Liquid Withdrawal & Transfer Valves



**VL 13**  
69.0.290.0008

Liquid withdrawal valve.



**VL 25**  
69.0.290.0005

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



**LF 25C**

Liquid withdrawal Excess Flow Valve.  
Performance: excess flow closes  
4.5÷5.5 m<sup>3</sup>/h (water);  
residual flow ≤ 0.050 m<sup>3</sup>/h (water)  
with ΔP +1 bar

**RL 15**

72.0.090.0004

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



**RL 25**

72.0.090.0025

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



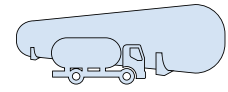
**RRL 16 A-P**

Liquid withdrawal valve complete with protection cap.



Part number	Container Connection	Outlet Connection	Wrenching Grip (mm)
69.0008 (VL 13)	3/4" - 14 NPT	3/4" - 14 NPT (plugged)	35
69.0005 (VL 25)	1 1/4" - 14 NPT	M 25x1.5 (plugged)	46
72.0004 (RL 15)	3/4" - 14 NPT	M 30x1.5	28 (square)
72.0025 (RL 25)	M 25x1.5	M 30x1.5	32 (square)
67.0793 (RRL 16)	3/4" - 14 NPT (with*/without* tube threading 3/4" 28UN-2B for dipping)	3/4" - 14 NPT (with plug cap)	34 (square)
69.0040 (LF 25C)	1 1/4" - 14 NPT	3/4" - 14 NPT	46





## Pipeaway Adapter

Designed to be installed between semi-internal pressure relief valves and vent stacks or at any point in plant plumbing where breakaway protection is needed. This plated steel adapter has a weak section to help protect the relief valve if vent stack is damaged or to help protect plant plumbing from catastrophic failure.



Part No.	Outlet MNPT
MEP104-24	3" FNPT



## Clamp Style Hose Couplings

These hose couplings are user friendly and can be easily installed in the field. A steel or ductile hose barb is inserted into the hose and two outer clamps, positioned on the outside of the hose, have a boss to keep the bolts from rotating while the clamps compress the hose for a leak free seal.

Note: Clamps must be installed with clamp lip fully engaged into flange groove on hose barb body.

### Clamp Style Hose Coupling Features

- Hose barbs constructed of zinc plated steel or ductile iron with automotive grade powder coat finish
- All hose clamps are ductile iron with automotive grade powder coat finish
- Optional integrated female Acme swivel eliminates weight of additional couplings
- Includes hose barb and two clamps, nuts and bolts



ME3162-32B



ME3162-323S

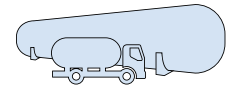


ME3162-20

Part No.	Hose Barb	Outlet MNPT
ME3162-08	1/2"	1/2"
ME3162-12	3/4"	3/4"
ME3162-12S	3/4"	1-3/4" F. Acme Steel
ME3162-16	1"	1"
ME3162-2016	1-1/4"	1"
ME3162-20	1-1/4"	1-1/4"
ME3162-24	1-1/2"	1-1/2"
ME3162-32	2"	2"
ME3162-32B*	2"	3-1/4" F. Acme Brass
ME3162-32S	2"	3-1/4" F. Acme Steel

\* Rated for LP-Gas





## Self-Cleaning Y-Strainers



Designed for flow in one direction to guard against debris in pipelines that could cause damage to pumps, valves or other equipment. Can be installed horizontally or vertically. They are available in three stainless steel mesh sizes. The mesh size equals the number of holes per square inch i.e. the smaller the number the larger the holes.

A shutoff valve installed on the filter basket outlet allows for convenient blow-off cleaning of y-strainer while under pressure.

### Self-Cleaning Y-Strainer Features

- Durable ductile iron body with automotive grade powder coat finish
- Rated 600 WOG
- Optional factory installed plug
- Designed for LP-Gas or NH<sub>3</sub>

Part No.			Blow-Off Plug Size	Inlet & Outlet F8PT
20 Mesh Screen	40 Mesh Screen	80 Mesh Screen		
ME650S/20	ME650S	ME650S/80	1/2"	1/2"
ME651S/20	ME651S	ME651S/80	1/2"	3/4"
ME652S/20	ME652S	ME652S/80	3/4"	1"
ME653S/20	ME653S	ME653S/80	3/4"	1-1/4"
-	ME654S	-	1"	1-1/2"
ME655S/20	ME655S	ME655S/80	1"	2"
-	ME656S	ME656S/80	1-1/4"	3"

To add a factory installed plug use a "P" after the prefix number i.e. ME650SP/20

## Breakaway Couplings

Designed to provide a safe way to transfer LP-Gas and NH<sub>3</sub> without sacrificing flow. The Flo Kill Breakaway Coupling flows both directions and protects against expensive loss of product or equipment damage if a pull-away occurs during a transfer operation. One end of the breakaway coupling should be attached to a fixed or sturdy point. In the event of an excessive amount of pull force, the breakaway coupling will separate and immediately shutoff product flow in both directions.

To reconnect the valve, pressure needs to be relieved from both ends of the line, therefore it is recommended that a safe way to bleed down the line is provided upstream and downstream. After the lines have been depressurized use Marshall Excelsior's re-installation tool (MEP128-6) for 3/4" or slide the male end into the female side and pull the collar back until they lock. After reconnection the line must be tested using Marshall Excelsior Leak Detector to check for leaks before any product is transferred. The breakaway coupling may be used on vapor or liquid lines on transports, delivery trucks, motor fuel containers, fill cabinets and other miscellaneous filling operations.

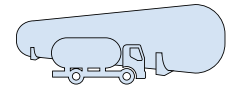
Note: It is recommended that breakaway couplings be safety tested monthly to confirm that proper separation occurs in the event of a pull-away. Dry air is suggested for a source of pressure during testing.

### FloKill Breakaway Coupling Features

- Nitrile soft seat provides positive shutoff both upstream and downstream of source
- 100 - 300 lbs of force required for disconnect
- Approximately 100 lbs of force to reconnect
- Large internal bore for increased flow
- Durable plated steel construction
- Rated for LP-Gas & NH<sub>3</sub>



Part No.		Connection FNPT	OAL Length	Accessory Reassembly Tool
Bracket Style	Lanyard Style			
ME860S-6	ME861S-6	3/4"	6"	MEP128-6
ME860S-8	ME861S-8	1"	6-3/4"	-
ME860S-10	ME861S-10	1-1/4"	7-3/4"	-



## Heavy Duty Acme Spanner Wrench



Acme cap sold separately

**ME3162-3235**

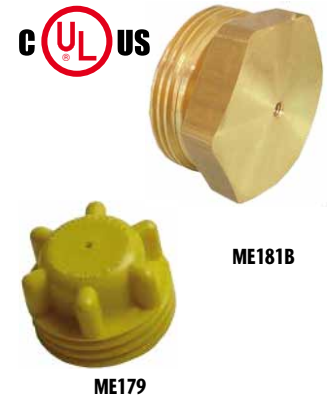
Aluminum Acme spanner wrench for 1-3/4", 2-1/4", 3-1/4" and 4-1/4" female Acme caps.

Part No.	Length
MEP120B	17-1/2"

## Acme Dust Plugs

Part No.									M. Acme
Aluminum			Brass			Plastic			
Plug Only	Chain Only*	Plug with Chain	Plug Only	Chain Only*	Plug with Chain	Plug Only	Chain Only*	Plug with Chain	
-	-	-	ME178B	MEP148	ME178B-1	ME178	MEP147	ME178-1	1-1/4"
ME239	MEP148	ME239-1	ME179B	MEP148	ME179B-1	ME179	MEP148	ME179-1	1-3/4"
-	-	-	ME180B	MEP167	ME180B-1	ME180	MEP148	ME180-1	2-1/4"
-	-	-	ME181B	MEP167	ME181B-1	ME181	MEP183	ME181-1	3-1/4"

\* MEP147 ring fits over 3/4" MNPT—MEP148 ring fits over 1-1/4" MNPT



## Wheel Chock



Designed with a "Double Grip" handle for easy carrying and dual traction grips for the road and tire. The aluminum material makes the wheel chock lightweight and able to withstand the toughest environments. Turn the wheel chock upside down and the points on top of the wheel chock will dig into the snow and ice to prevent sliding. Durable safety yellow powder coat finish.

Part No.	Height	Length	Width
ME200	7"	10"	7"

## Wheel Chock Bracket



Designed to provide a durable and convenient receptacle to store wheel chocks during over-the-road transit. Durable aluminum construction and molded inserts prevent damage to wheel chocks. For installations that require additional mounting clearance a standoff extension kit is available.

Part No.	Height	Length	Depth	Wheel Chocks Included	Accessory Standoff Extension Kit
ME200B	7-3/4"	20"	7"	No	ME200EXT
ME200BK	9-3/4"	20"	8"	Yes	



**cavagna group**

**Advanced Solutions for Gas Control**

**LPG-CNG VALVES & EQUIPMENT** DIVISION



# Ball Valves and Actuators



# Ball Valves Construction Details

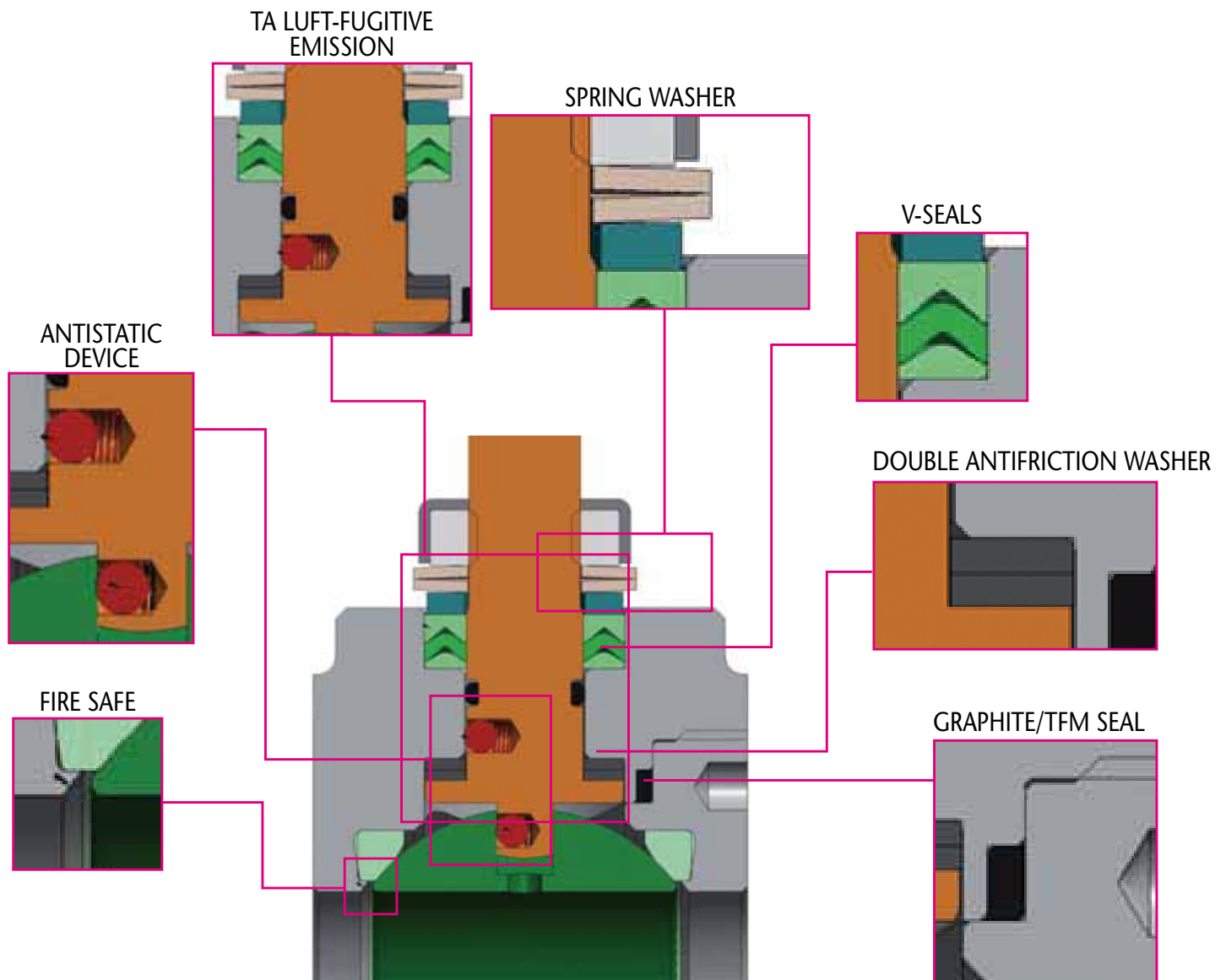
Designed in compliance with ASME/API/EN, Omal ball valves are meant to operated with actuators. For this reason valves are provided with actuator connections and their sealing elements are specifically engineered for a very high number of cycles. OMAL wafer, split wafer and split body ball valves are designed with all the details which set them above many competitors. The "fire safe" version built in compliance with recent, very strict standards and provided with antistatic devices, a complex stem sealing system and all relevant fugitive emission, ATEX and fire safe certifications guarantees best performance and total reliability.

**FIRE SAFE:** API 6 FA – UNI EN ISO 10497

TA LUFT/FUGITIVE EMISSION Thanks to the special stem double sealing system consisting of a V-pack loaded with Omal springs washer. OMAL valves are certified in compliance with very strict emission standards TA LUFT Tal – 194058 – 001.

**ATEX:** The body-stem and ball-stem connections are provided with antistatic devices which guarantee power continuity. The valve is in compliance with Directive 94/9 EC – ATEX.

**STEM:** Being assembled inside, the stem is completely anti blow-out. A double anti-friction washer in PTFE allows the stem to rotate with low friction and the valve to perform flawlessly for a very high number of cycles.



## Carbon Steel Wafer



### STANDARD FEATURES

- No protruding flanging 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 flanging 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

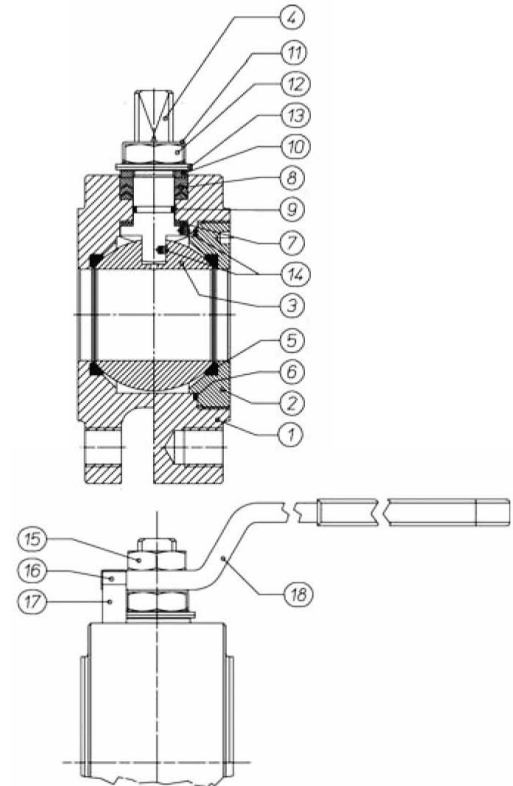
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- Fugitive Emission UNI EN ISO 15848 (2006)
- TA-LUFT VDI 2440 (2000)
- FIRE SAFE DESIGN: certification on process

### 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

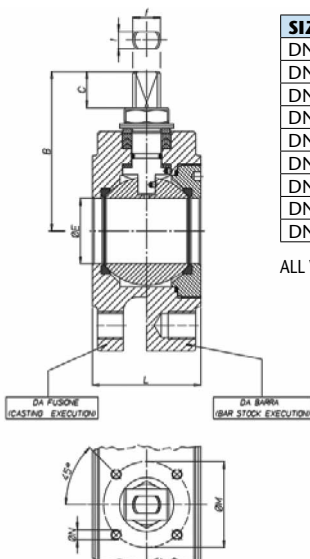
# Wafer Series Construction Details

MATERIAL TABLE			Body Stainless Steel	Body Carbon Steel
			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)	
		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 / X5XrNi18-10)	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:**

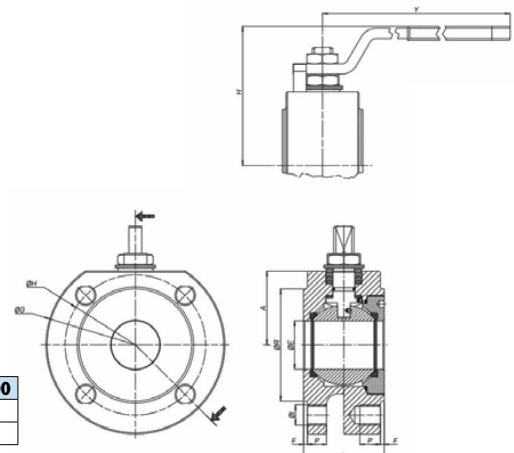
(\*) A350LF2    (\*\*) A351 CF8M    (\*\*\*) 316 S.S.    (x) 304 s.s.    (xx) 301 s.s.

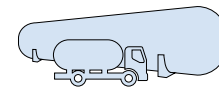


SIZE	ØE	L	B	C	ATT.ISO	ØM	ØN	F/T	
DN15	13	36	52	10	F03	36	M5	10/6	
DN20	19	39	55	10	F03	36	M5	10/6	
DN25	25	43	68	15	F04	42	M5	12/8	
DN32	32	51	54	73	15	F04	42	M5	12/8
DN40	38	63	93	21	F05	50	M6	16/10	
DN50	51	83	102	21	F05	50	M6	16/10	
DN65	64	107	130,5	28	F07	70	M8	22/14	
DN80	76	120	137,5	28	F07	70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

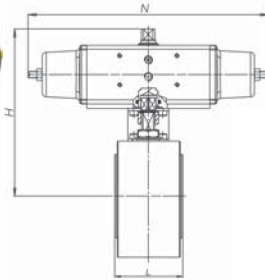
**BARE SHAFT VALVE CODE (V \_ \_)**  
**LEVER OPERATED VALVE CODE (L \_ \_)**

	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 150	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

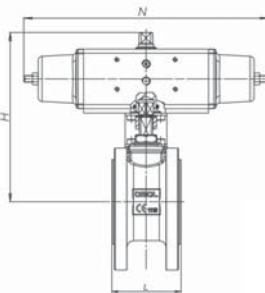


All valves have no protruding ball except DN32 (Face to face 51 mm)

## PN 16-40 Wafer Series Spring Return Pneumatic Actuator



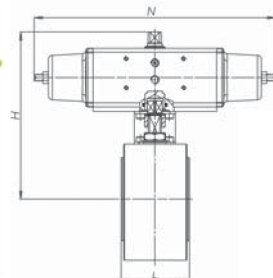
EXECUTION FROM SOLID BAR



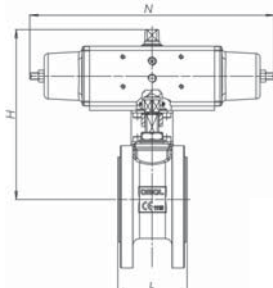
EXECUTION FROM CASTING

PN 16-40 Wafer Serie Spring Return Pneumatic Actuator										
BAR STOCK EXECUTION	Body Stainless Steel	Body/ Carbon Steel	Actuator	Connecting Kit	SIZE	PN	N	H	Kg	L
	BAR STOCK EXECUTION	S480BH064	S580AH064	SR015401S	KCF033761	DN15	16	221	152,4	3,0
S481BH064		S581AH064	SR003401S	KCF043767	25-40		240	162,4	3,4	
S480BH065		S580AH065	SR030402S	KCF043767	DN20	16-40	240	165,4	4,2	39
S480BH066		S580AH066	SR030402S	KCF043807	DN25	16-40	240	172,4	4,8	43
S480BH067		S580AH067	SR045401S	KCF053768	DN32	16-40	294	184,5	7,0	51
S480BH067S		S580AH067S				7,3	54			
S480BH068		S580AH068	SR060401S	KCF053764	DN40	16-40	320	224,4	11,1	63
S480BH069		S580AH069	SR090401S	KCF073769	DN50	16	357	243	13,5	83
S481BH069		S581AH069	SR120401S	KCF073769		25-40	372	253,4	15,7	
S480BH070		S580AH070	SR120401S	KCF073765	DN65	16	372	279,4	22,7	107
S481BH070		S581AH070	SR180401S	KCF103770	25-40	436	291	25,3		
S480BH071		S580AH071	SR180401S	KCF103770	DN80	16	436	298	30,0	120
S481BH071		S581AH071	SR240401S	KCF103770		25-40	456	310	30,8	
S480BH072		S580AH072	SR360401S	KCF123778	DN100	16	566	359	51,8	152
S481BH072	S581AH072	SR480401S	KCF123771	25-40		602	371,2	58,2		
CASTED	S480EH069	-	SR090401S	KCF073769	DN50	16	357	243	10,9	83
	S480EH070	-	SR120401S	KCF073765	DN65	16	372	279,4	16,4	107
	S480EH071	-	SR180401S	KCF103770	DN80	16	436	298	22,6	120
	S480EH072	-	SR360401S	KCF123778	DN100	16	566	359	37,8	152

## ANSI 150-300 Wafer Series Spring Return Pneumatic Actuator



EXECUTION FROM SOLID BAR



EXECUTION FROM CASTING

ANSI 150-300 Wafer Serie Spring Return Pneumatic Actuator										
BAR STOCK EXECUTION	Body Stainless Steel	Body/ Carbon Steel	Actuator	Connecting Kit	SIZE	CL	N	H	Kg	L
	BAR STOCK EXECUTION	S480BHC64	S580AHC64	SR015401S	KCF033761	DN15	Ansi 150	221	152,4	3,0
S481BHC64		S581AHC64	SR003401S	KCF043888	Ansi 300		240	164,4	3,4	
S480BHC65		S580AHC65	SR030402S	KCF043767	DN20	Ansi 150	240	165,4	4,2	39
S481BHC65		S581AHC65		KCF043889		Ansi 300	240	169,4	4,5	
S480BHC66		S580AHC66	SR030402S	KCF043807	DN25	Ansi 150	240	172,4	4,8	43
S481BHC66		S581AHC66		KCF043890		Ansi 300	240	175,4	5,2	
S480BHC67		S580AHC67	SR045401S	KCF053768	DN32	Ansi 150	294	184,5	6,8	54
S481BHC67		S581AHC67				Ansi 300	294	184,5	7,3	
S480BHC68		S580AHC68	SR060401S	KCF053764	DN40	Ansi 150	320	224,4	10,9	63
S481BHC68		S581AHC68				Ansi 300	320	224,4	12,3	
S480BHC69		S580AHC69	SR090401S	KCF073769	DN50	Ansi 150	357	243	13,7	83
S481BHC69		S581AHC69	SR120401S	KCF073891		Ansi 300	372	259,4	17,1	
S480BHC70		S580AHC70	SR120401S	KCF073765	DN65	Ansi 150	372	279,4	22,9	107
S481BHC70		S581AHC70	SR180401S	KCF103892		Ansi 300	436	297	27,7	
S480BHC71	S580AHC71	SR180401S	KCF103770	DN80	Ansi 150	436	298	30,4	120	
S481BHC71	S581AHC71	SR240401S	KCF103892		Ansi 300	456	316	34,8		
S480BHC72	S580AHC72	SR360401S	KCF123778	DN100	Ansi 150	566	359	52,2	152	
S481BHC72	S581AHC72	SR480401S	KCF123893		Ansi 300	602	381,2	65,2		
CASTED	S480EHC69	-	SR090401S	KCF073769	DN50	Ansi 150	357	243	10,4	83
	S480EHC70	-	SR120401S	KCF073765	DN65	Ansi 150	372	279,4	17,1	107
	S480EHC71	-	SR180401S	KCF103770	DN80	Ansi 150	436	298	23,1	120
	S480EHC72	-	SR360401S	KCF123778	DN100	Ansi 150	566	359	39,3	152

## Carbon Steel Split Wafer



### STANDARD FEATURES

- No protruding flanging 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 sleeve
- 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: in the process of certification

### 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 Split Wafer



### STANDARD FEATURES

- No protruding flanging 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

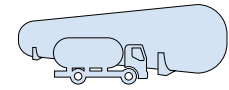
- For other flange types please contact our sales department
- Heating jacket
- Sealing in: PTFE reinforced with glass (RPTFE), PTFE reinforced with carbon-graphite (CTFE). For other types of materials please contact our sales department
- PTFE cavity filler seat
- Mono-directional version with pressure-compensating 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

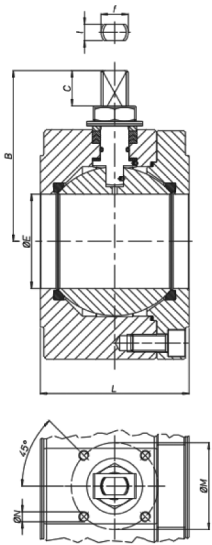
- In compliance with European Directive 97/23 EC PED
- In compliance with ATEX 94/9/CE Directive (on request)
- Fugitive Emission UNI EN ISO 15848 (2006)
- TA-LUFT VDI 2440 (2000)
- FIRE SAFE DESIGN: certification on process

### ENGINEERING STANDARDS EMPLOYED

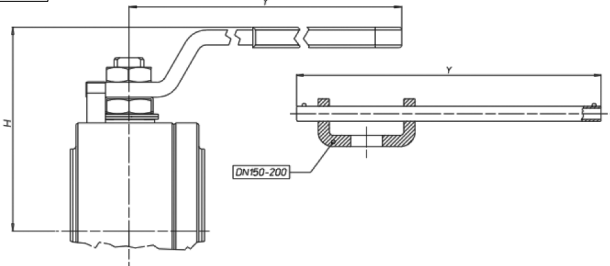
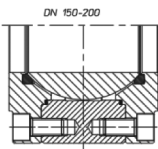
- Body thickness in compliance with: ASME B16.34, ASME VIII div.1, EN 12516.
- Materials and rating in compliance with ASME B16.34 for ANSI valves and EN 12516 for PN valves



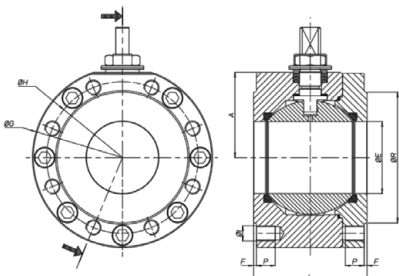
# Split Wafer Series Construction Details



SIZE	ØE	L	B	C	ATT.ISO	ØM	ØN	f/t
DN50	51	90	102	21	F05	50	M6	10/6
DN65	64	107	130,5	28	F07	70	M8	22/14
DN80	76	120	68	28	F07	70	M8	22/14
DN100	102	167	73	35	F10	102	M8	30/18
DN125	118	180	93	35	F10	102	M10	30/18
DN150	152	240	102	40,5	F14	140	M10	45/30
DN200	203	314	130,5	44,8	F14	140	M16	52/35

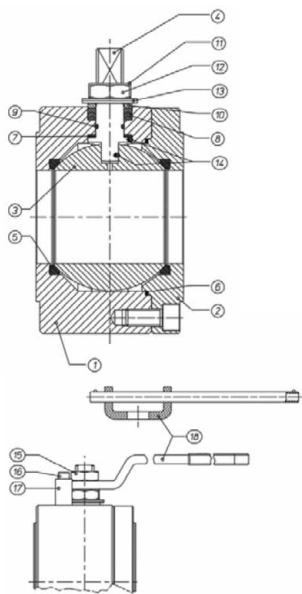


	DN50	DN65	DN80	DN100	DN125	DN150	DN200
H	117	142	149	198	208	215	295
Y	275	350	350	450	450	800	800



## BARE SHAFT VALVE CODE (V\_) / LEVER OPERATED VALVE CODE (L\_)

Body Stainless steel	Body Carbon steel	SIZE	PN/ANSI	A	ØG	ØR	F	ØH	N° FORI	ØI	P	KG.	L
L/V485B0609	L/V585A0609	DN50	PN16-40	67	150	102	3	125	4	M16	20	9,7	90
L/V485BC609	L/V585AC609	DN50	ANSI 150	67	150	92	1,6	120,6	4	5/8"UNC	20	9,7	90
L/V486BC609	L/V586AC609	DN50	ANSI 300	73	150	92	1,6	127,0	8	5/8"UNC	20	9,7	90
L/V485B0610	L/V585A0610	DN65	PN16	83	178	122	3	145	4	M16	20	16,4	107
L/V486B0610	L/V586A0610	DN65	PN25-40	83	178	122	3	145	8	M16	20	16,1	107
L/V485BC610	L/V585AC610	DN65	ANSI 150	83	178	104,7	1,6	139,7	4	5/8"UNC	20	16,5	107
L/V486B0610	L/V586A0610	DN65	ANSI 300	89	190	104,7	1,6	149,2	8	3/4"UNC	25	18,7	107
L/V485B0611	L/V585A0611	DN80	PN16-40	90	190	138	3	160	8	M16	20	20,2	120
L/V485BC611	L/V585AC611	DN80	ANSI 150	90	190	127	1,6	152,4	4	5/8"UNC	20	20,7	120
L/V486BC611	L/V586AC611	DN80	ANSI 300	90	205	127	1,6	168,3	8	3/4"UNC	25	24,0	120
L/V485B0612	L/V585A0612	DN100	PN16	107	235	158	3	180	8	M16	20	40,4	167
L/V486B0612	L/V586A0612	DN100	PN25-40	107	235	162	3	190	8	M20	25	40,5	167
L/V485BC612	L/V585AC612	DN100	ANSI 150	107	235	157,2	1,6	190,5	8	5/8"UNC	20	40,7	167
L/V486BC612	L/V586AC612	DN100	ANSI 300	115	250	157,2	1,6	200,0	8	3/4"UNC	25	48,2	167
L/V485B0613	L/V585A0613	DN125	PN16	117	250	188	3	210	8	M16	25	48,2	180
L/V486B0613	L/V586A0613	DN125	PN25-40	125	270	188	3	220	8	M24	30	57,9	180
L/V485BC613	L/V585AC613	DN125	ANSI 150	117	250	185,2	1,6	216	8	3/4"UNC	25	48,3	180
L/V485B0614	L/V585A0614	DN150	PN16	154	332	212	3	240	8	M20	25	109,3	240
L/V485BC614	L/V585AC614	DN150	ANSI 150	154	332	216	1,6	241,3	8	3/4"UNC	25	110,3	240
L/V485B0615	L/V585A0615	DN200	PN16	188	396	268	3	295	12	M20	30	191,8	314
L/V485BC615	L/V585AC615	DN200	ANSI 150	188	396	269,8	1,6	298,4	8	3/4"UNC	25	193,7	314



MATERIAL TABLE	Body Stainless Steel	Body Carbon Steel
	V485 / V486	V585 / V586
1 Body	ASTM A182 F316 / A479 TP.316 (x) (1.4401 / X5CrNiMo17-12-2)	ASTM A105 (*)
2 Ring nut		ASTM A105 (*)
3 Ball	ASTM A351 CF8M (1.4408 / GX5CrNiMo19-12-2)	ASTM A351 CF8(**) (1) (1.4308 / GX5CrNiMo19-10)
4 Stem	ASTM A182 F316 / A479 TP.316 (1.4401 / X5CrNiMo17-12-2)	
5 Seats	TFM 1600	
6 Ring nut gasket	GRAFITE / GRAPHITE	
7 Bottom sealing	TFM 1600	
8 Chevron rings	TFM 1600	
9 Stem o'ring	TFM 1600	
10 Gland nut ring	ASTM A182 F304 / A479 TP.304 (1.4301 / X5CrNi18-10)	Carbon Steel ZINCATO galvanized (x) (3)
11 Nut holder	AISI 304	
12 Stem nut	UNI 3740-1 6S ZINCATO-galvanized (x)	
13 Spring washer	50CrV4 ZINCATO - galvanized (xx)	
14 Antistatic device	ASTM A182 F316 / A479 TP.316	
19 Body ring nut screw	A2-70 UNI 3740	8.8 uni 3740 - galvanized
15 Lock nut (x)	UNI 3740-1 6S ZINCATO-galvanized	
16 Holder screw	A2 UNI EN ISO 3506-1	
17 Holder	Carbon Steel ZINCATO-galvanized	
18 Lever (x)	Fe 37 ZINCATO galvanized	

**AVAILABLE ON REQUEST:**  
 (\*) A350LF2  
 (\*\*) A351 CF8M  
 (\*\*\*) 316 S.S.  
 (x) 304 s.s.  
 (xx) 301 s.s.  
 (1) for DN 100-125-150-200 only A351-CF8M  
 (2) for DN 150-200 only 316 s.s.  
 (3) for DN 150-200 only 304 s.s.



## Carbon Steel Split Body



### STANDARD FEATURES

- Floating ball, full bore
- Soft-seat seal TFM 1600
- Standard for connecting flanges: EN 1092-1 ed. 2008; ANSI B16.5
- Operating temperature see temperature pressure diagram
- Pressure class: PN16-40; ANSI 150-300
- Intercepted fluid: air, water, gas, petroleum and petrochemical products.
- Antistatic device EN12662-2
- Stem seal: TFM 1600 V-ring packing
- Additional seal on stem with FKM O-ring
- Anti Blow-out stem
- Actuator connection as per standard ISO 5211
- Closing angle  $>7^\circ$
- Superficial treatment: blueing

### SPECIAL FEATURES ON REQUEST

- LF2 carbon steel for low temperature execution ( $-40\text{ C}^\circ$ )
- For other flange types please contact our sales department.
- Sealing in: PTFE reinforced with glass (RPTFE-GF), PTFE reinforced with carbon-graphite (RPTFE-CF). For other types of materials please contact our sales department
- Cavity filler seatin 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: API 607:2005/ISO 10497:2010 - API6FA:1999
- API 6D: certificato n°6D-1007 only for valves with ANSI face to face

### ENGINEERING STANDARDS

- Body thickness in compliance with: ASME B16.34, ASME VIII div.1, EN 12516.
- **API 6D**
- Materials and rating in compliance with ASME B16.34 for ANSI valves and EN 12516 for PN valves

## Stainless Steel Split Body



### STANDARD FEATURES

- Floating ball, full bore
- Soft-seat seal TFM 1600
- Standard for connecting flanges: EN 1092-1 ed. 2008; ANSI B16.5
- Operating temperature see temperature pressure diagram
- Pressure class: PN16-40 - ANSI 150-300
- Intercepted fluid: air, water, gas, petroleum and petrochemical products, aggressive fluids
- Antistatic device EN12662-2
- Stem seal: TFM 1600 V-ring packing
- Additional seal on stem with FKM O-ring
- Anti Blow-out stem
- Actuator connection as per standard ISO 5211
- Closing angle  $>7^\circ$

### SPECIAL FEATURES ON REQUEST

- For other flange types please contact our sales department.
- Sealing in: PTFE reinforced with glass (RPTFE-GF), PTFE reinforced with carbon-graphite (RPTFE-CF). For other types of materials please contact our sales department
- PTFE cavity filler seat
- Mono-directional version with pressure-relief 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: API 607:2005/ISO 10497:2010 - API6FA:1999
- API 6D: certificate no 6D-1007 only for valves with ANSI face to face

### ENGINEERING STANDARDS

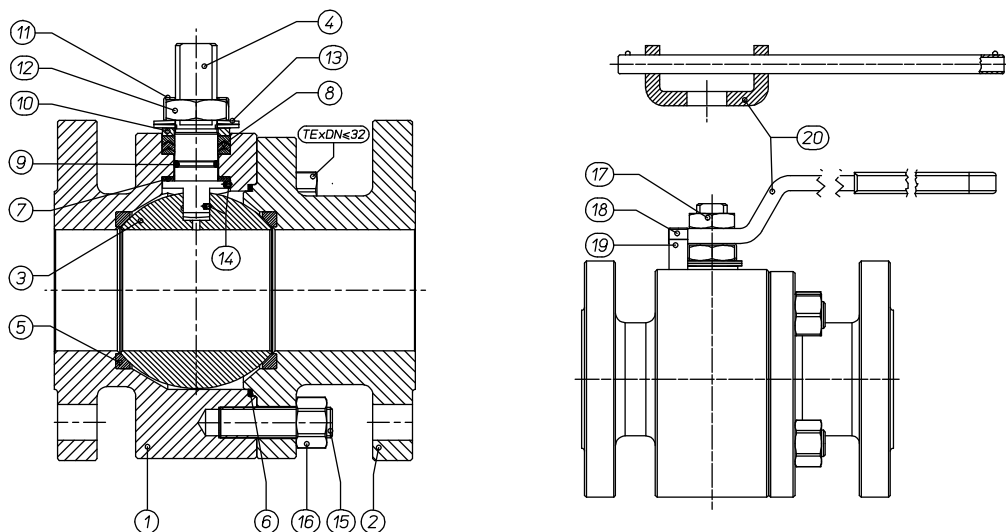
- Body thickness in compliance with: ASME B16.34, ASME VIII div.1, EN 12516
- **API 6D**
- Materials and rating in compliance with ASME B16.34 for ANSI valves and EN 12516 for PN valves

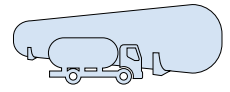
# Split Body Series Construction Details

MATERIALS	Stainless steel body	Carbon steel body
<b>DESCRIPTION</b>	<b>V470 / V471</b>	<b>V570 / V471</b>
1 Body	ASTM A182 F316 / A479 TP.316 (x)	ASTM A105 (*)
2 Connector	(1.4401 / X5CrNiMo17-12-2)	
3 Ball	ASTM A351 CF8M (1.4408 / Gx5CrNiMo19-12-2)	ASTM A351 CF8 (**) (1.4308 / GX5CrNi19-10)
4 Stem	ASTM A182 F316/A479 TP.316/A564-TP.630 (17-4 PH) (1.4401 / X5CrNiMo17-12-2)	ASTM A182 F6A / A479 TP.410 (***) (1.4006 / X12Cr13)
5 Seats		TFM 1600 (•)
6 Body gasket		GRAFOIL
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) / 174 PH (AISI 630)	Zinc coated carbon steel (x) (1)
11 Nut holder		AISI 304
12 Stem nut		UNI 3740-1 6S ZINCATO - galvanized (x)
13 Spring washer		50CrV4 ZINCATO - galvanized (xx)
14 Antistatic device		ASTM A182 F316 / A479 TP.316
15 Stud bolt	ASTM A193-B8	ASTM A193-B7
16 Nut	ASTM A194-Gr.8	ASTM A194-2H
17 Lock nut (x)		UNI 3740-1 6S ZINCATO - galvanized (x)
18 Holder screw		A2 UNI EN ISO 3506-1
19 Holder		Zinc coated carbon steel (x)
20 Lever (x)		Fe 37 ZINCATO - galvanized

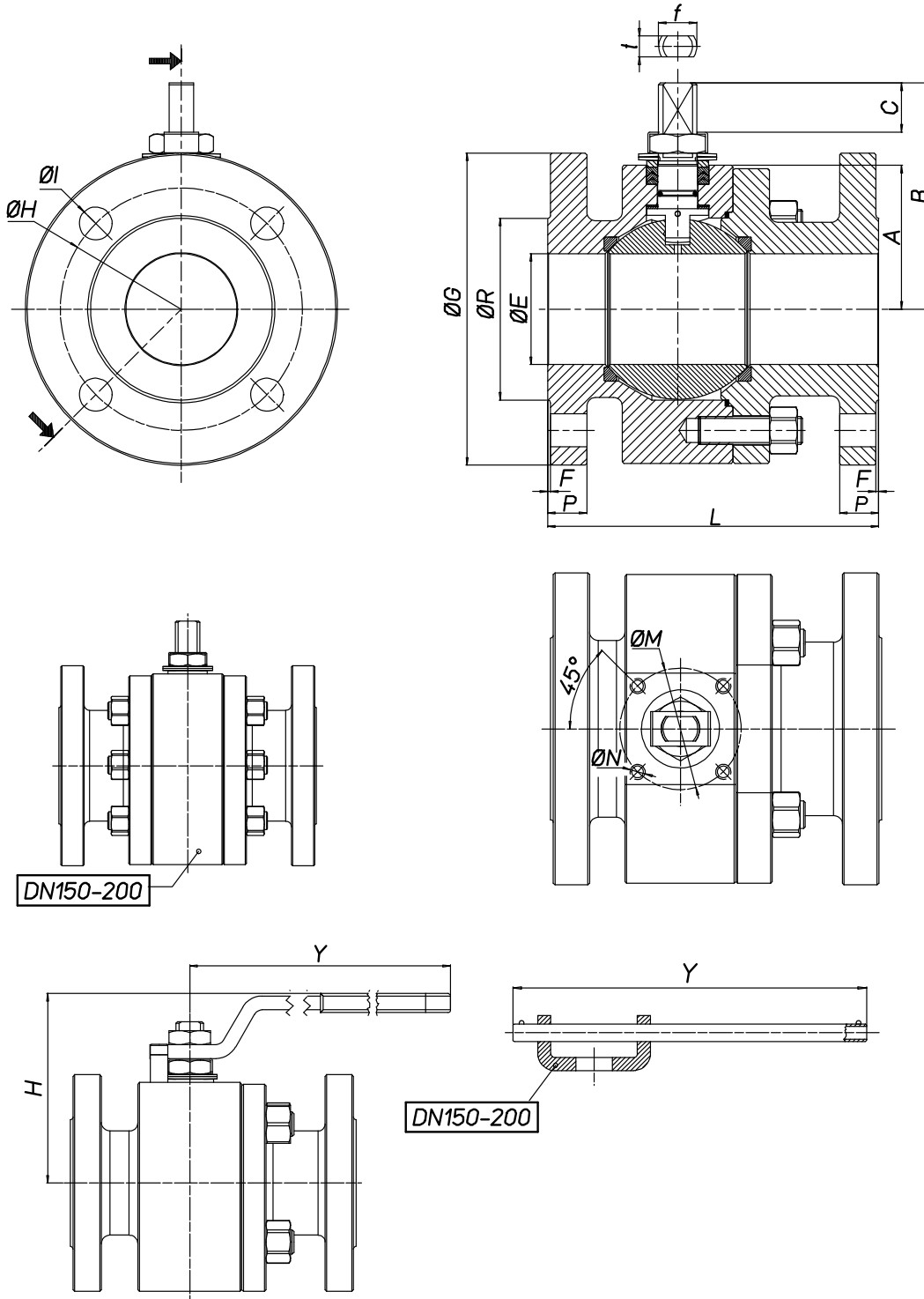
**AVAILABLE ON REQUEST:**

- (\*) A350LF2 (x) 304 s.s. (1): per DN150-200 disponibile solo on 304 s.s.
- (\*\*) A351 CF8M (xx) 301 s.s. (1): for DN150-200 only 304 s.s.
- (\*\*\*) 316 S.S./17-4PH
- (•) Other materials available on request





# Split Body Series Construction Details



	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
H	70	73	86	91	108	117	142	149	198	208	274	321
Y	140	140	150	150	275	275	350	350	450	450	800	800

# Split Body Series Construction Details

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

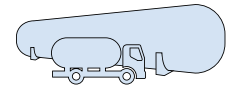
Body Stainless steel	Body Carbon steel	SIZE	ØE	PN/ANSI	A	B	C	ATT. ISO	ØM	ØN	f/t	ØG	ØR	F	P	ØH	N° FORI	ØI	KG.	L
L/V470B0604	L/V570A0604	DN15	13	PN16-40	32	52	10	F03	36	M5	10/6	95	45	2	16	65	4	14	2,8	115 (1)
L/V470BD604	L/V570AD604	DN15	13	ansi150	32	52	10	F03	36	M5	10/6	90	35	1,6	11,2	60,3	4	16	2,4	108 (3)
L/V471BD604	L/V571AD604	DN15	13	ansi300	32	52	10	F03	36	M5	10/6	95	35	1,6	14,5	66,7	4	16	2,7	140 (3)
L/V470B0605	L/V570A0605	DN20	19	PN16-40	35	55	10	F03	36	M5	10/6	105	58	2	18	75	4	14	3,6	120 (1)
L/V470BD605	L/V570AD605	DN20	19	ansi150	35	55	10	F03	36	M5	10/6	100	43	1,6	13	69,9	4	16	2,9	117 (3)
L/V471BD605	L/V571AD605	DN20	19	ansi300	35	55	10	F03	36	M5	10/6	115	43	1,6	16,6	82,6	4	19	3,9	152 (3)
L/V470B0606	L/V570A0606	DN25	25	PN16-40	42	68	15	F04	42	M5	12/8	115	68	2	18	85	4	14	5,2	125 (1)
L/V470BD606	L/V570AD606	DN25	25	ansi150	42	68	15	F04	42	M5	12/8	110	51	1,6	14,5	79,4	4	16	6,6	127 (3)
L/V471BD606	L/V571AD606	DN25	25	ansi300	42	68	15	F04	42	M5	12/8	125	51	1,6	18	88,9	4	19	5,9	165 (3)
L/V470B0607	L/V570A0607	DN32	32	PN16-40	47	73	15	F04	42	M5	12/8	140	78	2	18	100	4	18	7,6	130 (1)
L/V470BD607	L/V570AD607	DN32	32	ansi150	47	73	15	F04	42	M5	12/8	115	63,5	1,6	16	89	4	16	6,2	140 (3)
L/V471BD607	L/V571AD607	DN32	32	ansi300	47	73	15	F04	42	M5	12/8	135	63,5	1,6	19,5	98,4	4	19	8,7	178 (3)
L/V470B0608	L/V570A0608	DN40	38	PN16-40	58	93	21	F05	50	M6	16/10	150	88	3	18	110	4	18	10	140 (1)
L/V470BD608	L/V570AD608	DN40	38	ansi150	58	93	21	F05	50	M6	16/10	125	73	1,6	18	98,4	4	16	9,4	165 (3)
L/V471BD608	L/V571AD608	DN40	38	ansi300	58	93	21	F05	50	M6	16/10	155	73	1,6	21	114,3	4	22	12	190 (3)
L/V470B0609	L/V570A0609	DN50	51	PN16-40	67	102	21	F05	50	M6	16/10	165	102	3	20	125	4	18	14,3	150 (1)
L/V470BD609	L/V570AD609	DN50	51	ansi150	67	102	21	F05	50	M6	16/10	150	92	1,6	18	120,6	4	19	14,4	178 (4)
L/V471BD609	L/V571AD609	DN50	51	ansi300	67	102	21	F05	50	M6	16/10	165	92	1,6	21	127,0	8	19	17,2	216 (4)
L/V470B0610	L/V570A0610	DN65	64	PN16	83	130,5	28	F07	70	M8	22/14	185	122	3	18	145	4	18	20,2	170 (1)
L/V471B0610	L/V571A0610	DN65	64	PN25-40	83	130,5	28	F07	70	M8	22/14	185	122	3	22	145	8	18	28,2	270 (2)
L/V470BD610	L/V570AD610	DN65	64	ansi150	83	130,5	28	F07	70	M8	22/14	180	104,8	1,6	22,6	139,7	4	19	23,1	191 (4)
L/V471BD610	L/V571AD610	DN65	64	ansi300	83	130,5	28	F07	70	M8	22/14	190	104,8	1,6	26,1	149,2	8	22	27,3	241 (4)
L/V470B0611	L/V570A0611	DN80	76	PN16-40	90	137,5	28	F07	70	M8	22/14	200	138	3	24	160	8	18	25,4	180 (1)
L/V470BD611	L/V570AD611	DN80	76	ansi150	90	137,5	28	F07	70	M8	22/14	190	127	1,6	24	152,4	4	19	27	203 (4)
L/V471BD611	L/V571AD611	DN80	76	ansi300	96	137,5	28	F07	70	M8	22/14	210	127	1,6	29	168,3	8	22	28,6	282 (4)
L/V470B0612	L/V570A0612	DN100	102	PN16	111	172	35	F10	102	M10	30/18	220	158	3	20	180	8	18	38	190 (1)
L/V471B0612	L/V571A0612	DN100	102	PN25-40	111	172	35	F10	102	M10	30/18	235	162	3	22	190	8	22	57,8	300 (2)
L/V470BD612	L/V570AD612	DN100	102	ansi150	111	172	35	F10	102	M10	30/18	230	157,2	1,6	24,6	190,5	8	18	46	229 (4)
L/V471BD612	L/V571AD612	DN100	102	ansi300	111	172	35	F10	102	M10	30/18	255	157,2	1,6	32,6	200,0	8	22	67,7	305 (4)
L/V470B0613	L/V570A0613	DN125	118	PN16	117	182	35	F10	102	M10	30/18	250	188	3	22	210	8	18	68	325 (2)
L/V470BD613	L/V570AD613	DN125	118	ansi150	117	182	35	F10	102	M10	30/18	255	185,7	1,6	24	215,9	8	22	62	254 (3)
L/V471BD613	L/V571AD613	DN125	118	ansi300	125	182	35	F10	102	M10	30/18	280	185,7	1,6	36,6	235	8	22	89	381 (3)
L/V470B0614	L/V570A0614	DN150	152	PN16	154	227,5	40,5	F14	140	M16	45/30	285	212	3	22	240	8	22	121	350 (2)
L/V470BD614	L/V570AD614	DN150	152	ansi150	154	227,5	40,5	F14	140	M16	45/30	280	216	1,6	25,6	241,3	8	22	126	394 (4)
L/V470B0615	L/V570A0615	DN200	203	PN16	188	274	44,8	F14	140	M16	52/35	340	268	3	24	295	12	22	198	400 (2)
L/V470BD615	L/V570AD615	DN200	203	ansi150	188	274	44,8	F14	140	M16	52/35	345	269,9	1,6	29	298,4	8	22	210	457 (4)

(1) EN558 TAB. 2 COL. 14 / DIN 3202-1 F4

(2) EN558 TAB. 2 COL. 15 / DIN 3202-1 F5

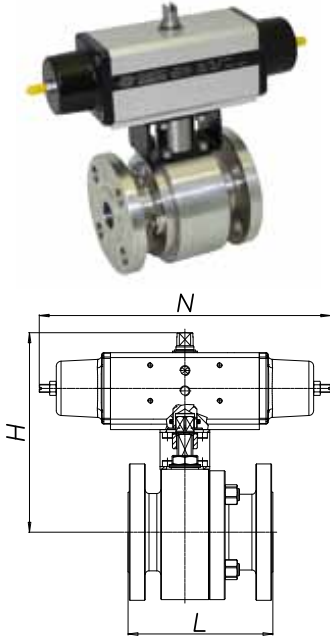
(3) ANSI B16.10

(4) B16.10 / API6D



## PN 16-40 Split Body Series Spring Return Pneumatic Actuator

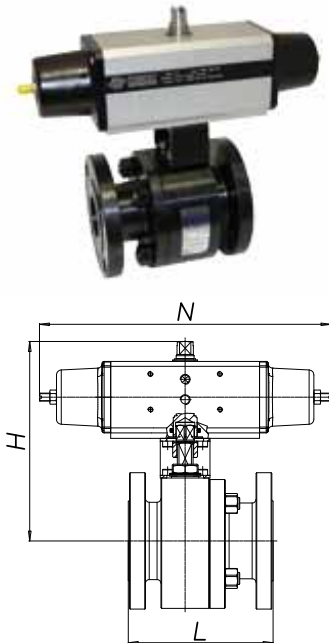
### SPRING RETURN PNEUMATIC ACTUATOR PN 16-40



PN 16-40 Wafer Serie Spring Return Pneumatic Actuator									
Body Stainless Steel	Body/ Carbon Steel	Actuator	Connecting Kit	SIZE	PN	N	H	Kg	L
S470BH064	S570AH064	SR015401S	KCF033761	DN 15	16	221	152,4	4,5	115
S471BH064	S571AH064	SR030402S	KCF043767		25-40	240	162,4	4,8	
S470BH065	S570AH065	SR030402S	KCF043767	DN 20	16-40	240	165,4	6,0	120
S470BH066	S570AH066	SR030402S	KCF043807	DN 25	16-40	240	172,4	7,6	125
S470BH067	S570AH067	SR045401S	KCF053768	DN 32	16-40	294	184,5	10,8	130
S470BH068	S570AH068	SR060401S	KCF053764	DN 40	16-40	320	224,4	13,2	140
S470BH069	S570AH069	SR090401S	KCF073769	DN 50	16	375	243	18,8	150
S471BH069	S571AH069	SR120401S	KCF073769		25-40	372	253,4	20,7	
S470BH070	S570AH070	SR120401S	KCF073765	DN 65	16	372	279,4	26,7	170
S471BH070	S571AH070	SR180401S	KCF103770		25-40	436	291	37,2	
S470BH071	S570AH071	SR180401S	KCF103770	DN 80	16	436	298	35,4	180
S471BH071	S571AH071	SR240401S			25-40	456	310	36,2	
S470BH072	S570AH072	SR360401S	KCF104150	DN 100	16	566	369	56,0	190
S471BH072	S571AH072	SR480401S	KCF123771		25-40	602	381,2	76,8	
S470BH073	S570AH073	SR480401S	KCF123778	DN 125	16	602	384,2	87,1	325
S470BH074	S570AH074	SR720401S	KCF163901	DN 150	16	834	613	178	350
S470BH075	S570AH075	SR1440E16D8A	KCF163903	DN 200	16	975	622,5	282	400

## ANSI 150-300 Split Body Series Spring Return Pneumatic Actuator

### SPRING RETURN PNEUMATIC ACTUATOR ANSI 150-300



PN 16-40 Wafer Serie Spring Return Pneumatic Actuator									
Body Stainless Steel	Body/ Carbon Steel	Actuator	Connecting Kit	SIZE	ANSI	N	H	Kg	L
S470BHD64	S570AHD64	SR015401S	KCF033761	DN 15	Ansi 150	221	152,4	4,0	108
S471BHD64	S571AHD64	SR030402S	KCF043767		Ansi 300	240	162,4	4,7	140
S470BHD65	S570AHD65	SR030402S	KCF043767	DN 20	Ansi 150	240	165,4	5,3	117
S471BHD65	S571AHD65				Ansi 300	240	164,4	6,3	152
S470BHD66	S570AHD66	SR030402S	KCF043807	DN 25	Ansi 150	240	172,4	6,9	127
S471BHD66	S571AHD66				Ansi 300	240	172,4	8,3	165
S470BHD67	S570AHD67	SR045401S	KCF053768	DN 32	Ansi 150	294	184,5	7,2	140
S471BHD67	S571AHD67				Ansi 300	294	184,5	11,8	178
S470BHD68	S570AHD68	SR060401S	KCF053764	DN 40	Ansi 150	320	224,4	15,2	165
S471BHD68	S571AHD68				Ansi 300	320	224,4	17,8	190
S470BHD69	S570AHD69	SR090401S	KCF073769	DN 50	Ansi 150	357	243	18,8	178
S471BHD69	S571AHD69	SR120401S			Ansi 300	372	254,4	24,1	216
S470BHD70	S570AHD70	SR120401S	KCF073765	DN 65	Ansi 150	372	279,4	29,6	191
S471BHD70	S571AHD70	SR180401S	KCF103770		Ansi 300	436	291	36,5	241
S470BHD71	S570AHD71	SR180401S	KCF103770	DN 80	Ansi 150	436	298	37,0	203
S471BHD71	S571AHD71	SR240401S	KCF103892		Ansi 300	456	310	49,4	282
S470BHD72	S570AHD72	SR360401S	KCF104150	DN 100	Ansi 150	566	369	62,8	229
S471BHD72	S571AHD72	SR480401S	KCF123771		Ansi 300	602	381,2	86,8	305
S470BHD73	S570AHD73	SR480401S	KCF123778	DN 125	Ansi 150	602	387,2	81,8	254
S471BHD73	S571AHD73	SR720401S	KCF143899		Ansi 300	712	421	117	381
S470BHD74	S570AHD74	SR720401S	KCF163901	DN 150	Ansi 150	834	613	190	394
S470BHD75	S570AHD75	SR1440E16D8A	KCF163903	DN 200	Ansi 150	975	622,5	283	457