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# Valves, Regulators & Filling Heads for Refrigerant Gases

2020/2021

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# Solutions

## LPG SOLUTIONS







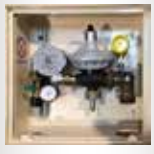
## COMPRESSED GASES SOLUTIONS





## NATURAL GAS SOLUTIONS



## ALTERNATIVE FUEL SYSTEMS



## GAS METERING SOLUTIONS



## OTHER





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Since 1949, the CavagnaGroup® has supplied the worldwide gas industry with products of superior quality and value. This catalogue features a complete line of products and accessories for the refrigerant gas cylinders.



The CavagnaGroup® is a key industrial partner for oil and gas companies, utility companies and OEMs, supplying them with technology for the regulation, control and metering of gases (gas for energy; industrial, medical and specialty gases; alternative fuels). Founded as a family-run business in 1949, the CavagnaGroup® has evolved to become the worldwide company that it is today. Wherever gas is involved, fueling work and life, that's where you'll find the CavagnaGroup®'s technological and manufacturing prowess. Whatever the type of gas, Cavagna is the one and only company to turn to: with safe, efficient technological solutions.

The Group offers a broad range of highly reliable products thanks to its ability to combine cutting-edge engineering research with certified, high-quality manufacturing processes including:

- LPG Valves, Equipment and Regulators
- Engineering and Services dedicated to the LPG industry
- Natural Gas regulators for domestic, commercial and industrial use and metering
- ASME, Fork Lift, and Motor Fuel Tank Valves
- Compressed Gases Cylinder Valves
- Refrigeration Cylinder Valves
- Regulation Equipment for Industrial Gases
- Regulation Equipment for Medical Gases
- Comprehensive Range of Welding and Cutting Equipment
- CNG - AUTOGAS cylinder and filling valves
- CNG - AUTOGAS systems
- LPG Powered Equipment
- Gas Meters

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

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

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

# VALVES FOR REFRIGERANT GASES

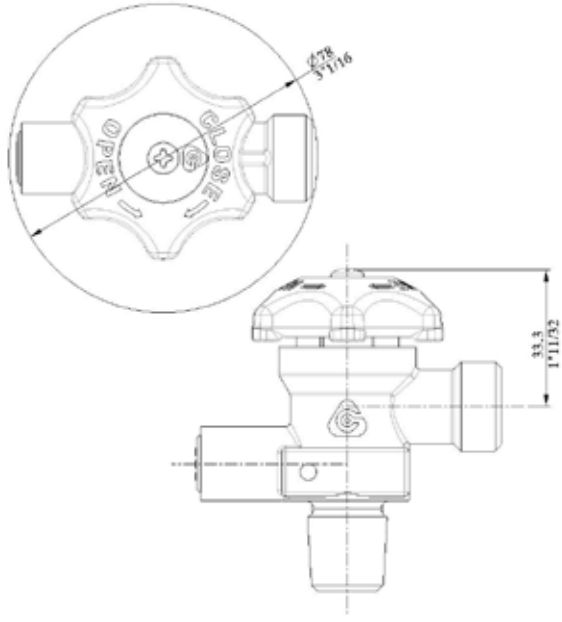
# Single Phase Diaphragm valve for flammable Refrigerant Gas

## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Spring Loaded PRV/Bursting disk
- Tube quick connection

## Options:

- Customer's logo on label
- Cap nuts
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or Metal seal:
- - Removable
- - Unremovable
- - Breakable
- Colored plastic handwheel: red, blue + green label
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Plastic sediment tube
- Inlet thread dry sealant
- Inlet thread PTFE tape


## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 8 mm |
| **Helium leak rate at Pmax** | internal 4,3 10-3 mbarl/sec<br>external 4,3 10-3 mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat Pad: PA66<br>Diaphragm : stainless steel<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|
| **7601900420** | 17E | W21.8x1/14"-LH | PRV 48 bar | Blue – Vapor + Green label | No | Installed | π |
| **7601900429** | 25E | W21.8x1/14"-LH | PRV 42 bar | Blue – Vapor + Green label | No | Installed | π |
| **7601900447** | 25E | W21.8x1/14"-LH | N.A. | Red – Liquid + Green label | Yes | Installed | π |
| **7601900448** | 17E | W21.8x1/14"-LH | N.A. | Red – Liquid + Green label | Yes | Installed | π |
| **7601900473** | 25E | W21.8x1/14"-LH | N.A. | Red – Liquid + Green label | Yes | Not Assembled | π |
| **7601900476** | 25E | W21.7x1/14"-LH | N.A. | Red – Liquid + Green label | Yes | Installed | π |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

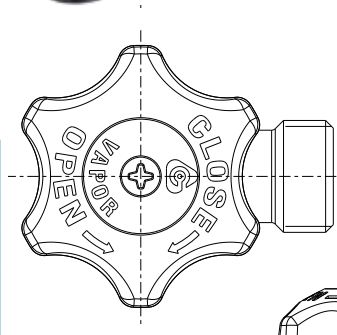
# Single Phase Diaphragm valve for inert Refrigerant Gas

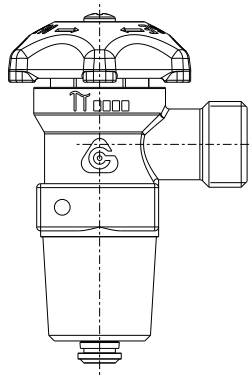
## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Spring Loaded PRV/Bursting disk
- Tube quick connection

## Options:

- Customer's logo on label
- Cap nuts
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or Metal seal:
  - Removable
  - Unremovable
  - Breakable
- Colored plastic handwheel: red, blue
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Cartridge Spring Loaded PRV
- Inlet thread dry sealant
- Inlet thread PTFE tape

## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 8 mm |
| **Helium leak rate at Pmax** | internal 4,3 10-3 mbarl/sec<br>external 4,3 10-3 mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat Pad: PA66<br>Diaphragm : stainless steel<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards and conforms to all requirements of :<br>CGA V9 / CGA S - 1.1 / CGA V-1 / ISO 10297 |

## Example product details*:

| Valves | Inlet | Outlet 1 | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|
| **7601900333** | 25E | W21.8x1/14" | Bursting Disc 43 bar | Blue Liquid | Yes | Installed | π |
| **7601900430** | 25E | W21.7x1/14" | PRV 42 bar | Blue Vapor | No | Installed | π |
| **7601900450** | 25E | W21.7x1/14" | No | Red Liquid | Yes | Not Applicable | π |
| **7601900481** | 25E | W21.8X1/14" - LH | No | Red Vapor | Yes | Installed | π |
| **7601900454** | 3/4"-14 NGT | CGA 660 | No | Blue Vapor | Yes | N.A. | Ⓤ |
| **7601900455** | 3/4"-14 NGT | CGA 660 | No | Red Liquid | Yes | N.A. | Ⓤ |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

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# Double Phase Diaphragm valve for flammable Refrigerant Gas

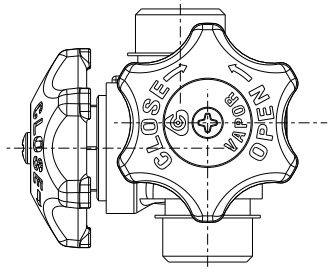
## Key Features:

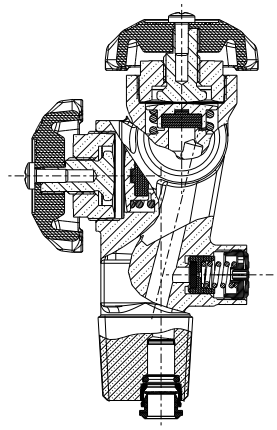
- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- **π** marking according TPED directive and EN ISO 10297
- Spring Loaded PRV
- Single or Double outlet
- Tube quick connection

## Options:

- Customer's logo on label
- Cap nuts
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or Metal seal:
  - Removable
  - Unremovable
  - Breakable
- Colored plastic handwheel: red, blue + green label
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Cartridge Spring Loaded PRV
- Inlet thread dry sealant
- Inlet thread PTFE tape





## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 8 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat Pad: PA66<br>Diaphragm : stainless steel<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet 1 | Outlet 2 | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|---|
| **7601900427** | 25E | W21.8x1/14"-LH | No | PRV 42 bar | Blue Vapor + Green label - Red Liquid + Green label | Yes | Installed | **π** |
| **7601900428** | 25E | W21.8x1/14"-LH | No | No | | Yes | Available | **π** |
| **7601900440** | 25E | W21.8x1/14"-LH | W21.8x1/14"-LH | No | | Yes | Available | **π** |
| **7601900464** | 25E | W21.8x1/14"-LH | W21.8x1/14"-LH | PRV 48 bar | | Yes | Available | **π** |

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# Double Phase Diaphragm valve for inert Refrigerant Gas

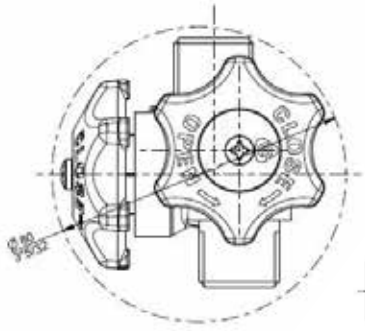
## Key Features:

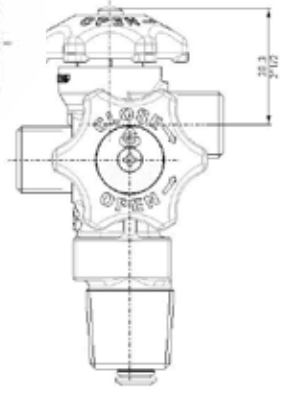
- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Spring Loaded PRV
- Single or Double outlet
- Tube quick connection

## Options:

- Customer's logo on label
- Cap nuts
- Liquid withdrawal tubes quick connection
- Anti-Filling (AF) :
  - Removable
  - Unremovable
  - Breakable
- Colored plastic handwheel: red, blue
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Cartridge Spring Loaded PRV
- Inlet thread dry sealant
- Inlet thread PTFE tape







## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 8 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat Pad: PA66<br>Diaphragm : stainless steel<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet 1 | Outlet 2 | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|---|
| **7601900167** | 25E | W21.7x1/14" | No | PRV 42 bar | Blue Vapor - Red Liquid | Yes | Available | π |
| **7601900169** | 3/4-14 NGT | 1.030-14 NGO-RH-EXT (CGA 660) | 1.030-14 NGO-RH-EXT (CGA660) | PRV 600 PSI | | Yes | Not Applicable | π |
| **7601900354** | 25E | W21.7x1/14" | W21.7x1/14" | PRV 42 bar | | Yes | Available | π |
| **7601900390** | 25E | W21.8x1/14" | W21.8x1/14" | No | | Yes | Available | π |
| **7601900393** | 25E | G5/8"A | G5/8"A | PRV 42 bar | | Yes | Available | π |
| **7601900422** | 25E | G5/8"A | No | PRV 42 bar | | Yes | Available | π |
| **7601900187** | 25E | W21.8x1/14" | W21.8x1/14" | PRV 42 bar | | Yes | Installed | π |
| **7601900453** | 3/4"-14 NGT 7 Oversize CGA V-1 | CGA 660 | CGA 660 | PRV 600 PSI | | Yes | Not Applicable | Ⓤ |
| **7601900240** | 3/4"-14 NGT | CGA 660 | CGA 660 | PRV 600 PSI | | Yes | Not Applicable | Ⓤ |

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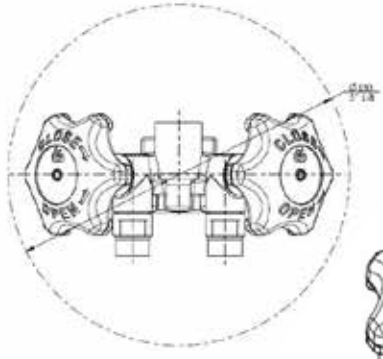
# Y valve for flammable Refrigerant Gas

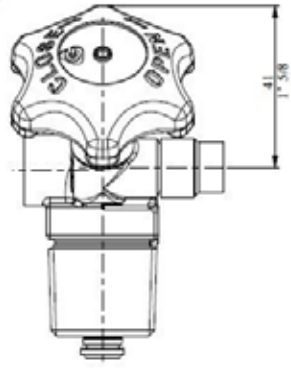
## Key Features:

- Valve for gas recovery
- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Double O-Ring valve operating mechanism
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Spring Loaded PRV or Bursting Disk
- Single or Double outlet
- Tube quick connection

## Options:

- Customer's logo on label
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or metal seal :
  - Removable
  - Unremovable
  - Breakable
- Colored plastic handwheel: red, blue + green label
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape


## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 4 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat: PA66<br>O-ring : CR Rubber<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet 1 | Outlet 2 | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|---|
| **7601900445** | ¾ - 14 NGT | ½"-16 ACME-LH-CGA166 | ½"-16 ACME-LH-CGA166 | PRV 600 PSI | Blue Liquid - Red Vapor | Yes | Not Applicable | Ⓤ |
| **7601900446** | ¾ - 14 NGT | ½"-16 ACME-LH-CGA166 | ½"-16 ACME-LH-CGA166 | PRV 375 PSI | Blue Liquid - Red Vapor | Yes | Not Applicable | Ⓤ |
| **7601900449** | 25E | ½"-16 ACME-LH-CGA166 | ½"-16 ACME-LH-CGA166 | PRV 42 bar | Blue Vapor + Green label – Red Liquid + Green label | Yes | Not Applicable | π |

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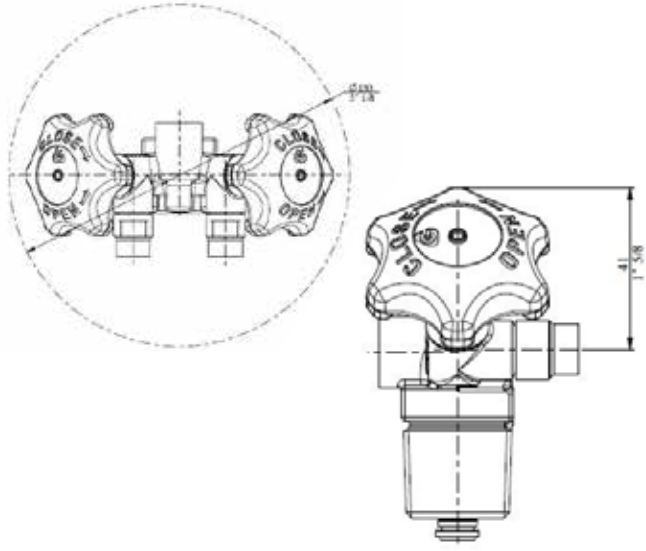
# Y valve for inert Refrigerant Gas

## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Double O-Ring valve operating mechanism
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Spring Loaded PRV or Bursting Disk
- Single or Double outlet
- Tube quick connection

## Options:

- Customer's logo on label
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or metal seal :
  - Removable
  - Unremovable
  - Breakable
- Colored plastic handwheel: red, blue
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape

## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 4 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat: PA66<br>O-ring : CR Rubber<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet 1 | Outlet 2 | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|---|
| **7601900184** | 25E | ¼" SAE FLARE (CGA 165) | ¼" SAE FLARE (CGA 165) | PRV 42 bar | Blue Vapor – Red Liquid | Yes | Not Applicable | π |
| **7601900214** | ¾ - 14 NGT | ¼" SAE FLARE (CGA 165) | ¼" SAE FLARE (CGA 165) | PRV 600 PSI | | Yes | Not Applicable | π and Ⓤ |
| **7601900220** | 25E | 1.030"-14 NGO-RH-EXT (CGA 660) | No | PRV 42 bar | | Yes | Available | π |
| **7601900362** | 25E | ¼" SAE FLARE (CGA 165) | ¼" SAE FLARE (CGA 165) | PRV 46 bar | | Yes | Not Applicable | π |
| **7601900466** | 25E | W21.7x1.814 | No | Bursting Disc 43 Bar | | Yes | Not Applicable | π |
| **7601900224** | 3/4" | CGA 165 | CGA 165 | PRV 600 PSI | Blue Liquid - Red Vapor | Yes | Not Applicable | Ⓤ |
| **7601900257** | 3/4"-14 NGT | CGA 165 | CGA 165 | PRV 600 PSI | | Yes | Not Applicable | Ⓤ |
| **7601900269** | 25E | CGA 165 | CGA 165 | PRV 600 PSI | | Yes | Not Applicable | π |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

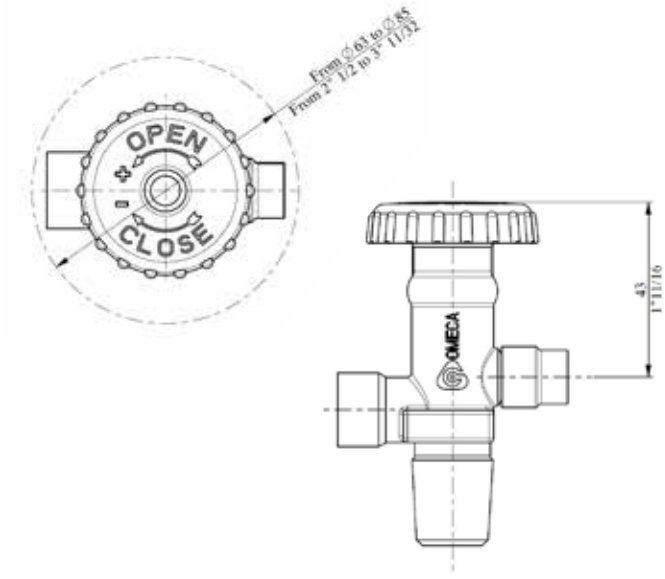
# O-Ring valve for flammable Refrigerant Gas

## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Double O-Ring valve operating mechanism
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- UL Listed according UL 1769
- Spring Loaded PRV


## Options:

- Customer's logo on handwheel
- Cap nuts available
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or metal seal :
  - Removable
  - Unremovable
  - Breakable
- Brass handwheel
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape




## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 7 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: brass<br>Seat: PA66<br>O-ring : CR Rubber<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|
| **7601900452** | 17E | 1/2"-16 ACME-LH (CGA166) | PRV 42 bar | No | Not Applicable | π and UL |
| **7601900310** | 25E | W21.8x1/14" DIN 477 | N.A. | Yes | Installed | π |
| **7601900328** | 17E | W21.8x1/14" | N.A. | Yes | Installed | π |
| **7601900330** | 17E | W21.8x1/14" | N.A. | Yes | Installed | π |
| **7601900406** | 25E | 1.030-14 NGO LH | PRV 42 bar | No | Installed | π |

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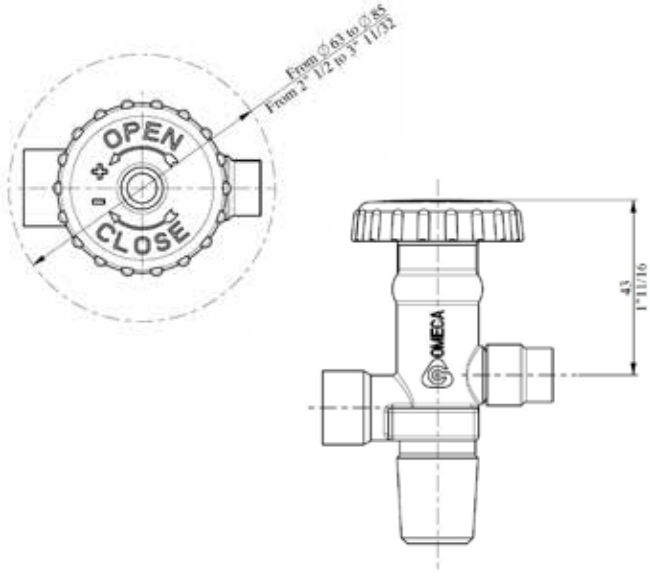
# O-Ring valve for inert Refrigerant Gas

## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Double O-Ring valve operating mechanism
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Spring Loaded PRV


## Options:

- Customer's logo on handwheel
- Cap nuts available
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or metal seal :
  - Removable
  - Unremovable
  - Breakable
- Brass handwheel
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape




## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 7 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: brass<br>Seat: PA66<br>O-ring : CR Rubber<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|
| **7601900192** | 17E | 7/16" (CGA 165) | PRV 42 bar | No | Not Applicable | π |
| **7601900330** | 17E | W21.8x1/14" | N.A. | Yes | Installed | π |
| **8008907007** | 25E | W21.8x1/14" | N.A. | No | Not Applicable | π |
| **8008908153** | 25E | 7/16" (CGA 165) | PRV 42 bar | No | Not Applicable | π |
| **7661900315** | 17E | W21.8x1/14"-LH | PRV 42 bar | No | Not Applicable | π |

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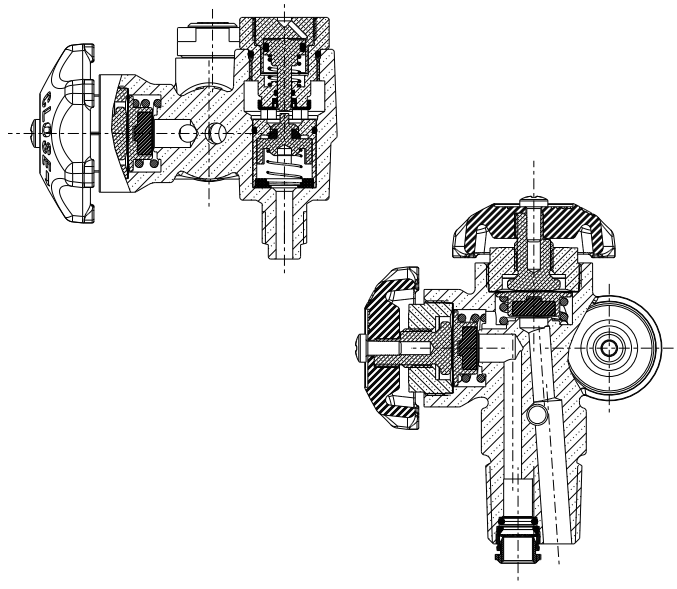
# Valve for flammable Refrigerant Gas

## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Cartridge Spring Loaded PRV
- Single outlet
- Tube quick connection
- Pneumatic activated Anti-Filling rubber seal


## Options:

- Customer's logo on label
- Cap nuts
- Liquid withdrawal tubes quick connection
- Colored plastic handwheel: red, blue + green label
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape



## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 8 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat Pad: PA66<br>Diaphragm : stainless steel<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|
| **7601900479** | ¾ - 14 NGT | 1/2"-16 ACME-LH (CGA166) | PRV 600 PSI | Blue Vapor - Red Liquid | Yes | Installed | Ⓤ and π |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

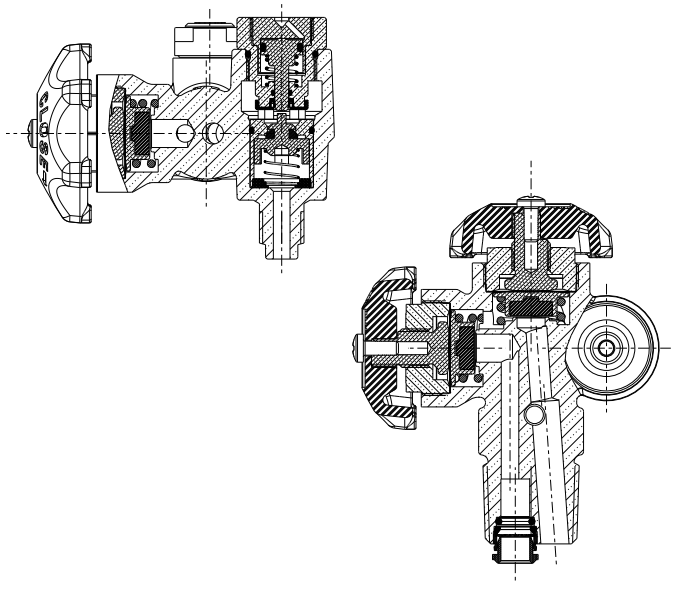
# Valve for Inert Refrigerant Gas

## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Cartridge Spring Loaded PRV
- Single outlet
- Tube quick connection
- Pneumatic activated Anti-Filling rubber seal


## Options:

- Customer's logo on label
- Cap nuts
- Liquid withdrawal tubes quick connection
- Colored plastic handwheel: red, blue + green label
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape
- 7601900469 has CGA 165 outlet and for applications using HFO 12347F



## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 8 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat Pad: PA66<br>Diaphragm : stainless steel<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|
| **7601900469** | ¾ - 14 NGT | CGA 165 | PRV 600 PSI | Blue Vapor - Red Liquid | Yes | Not Available | Ⓤ and π |
| **7601900480** | ¾ - 14 NGT | CGA 167 | PRV 600 PSI | Blue Vapor - Red Liquid | Yes | Not Available | Ⓤ and π |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

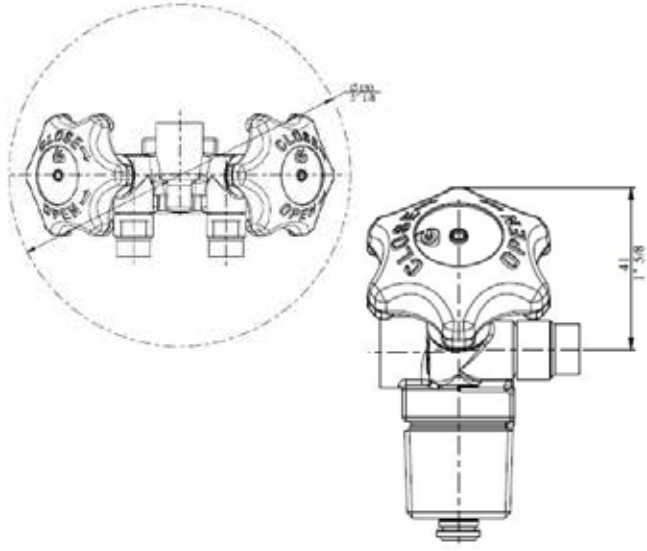
# Y valve for HFO R1234YF Refrigerant Gas

## Key Features:

- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Double O-Ring valve operating mechanism
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- Ⓤ Listed according UL 1769
- Spring Loaded PRV or Bursting Disk
- Single or Double outlet
- Tube quick connection


## Options:

- Customer's logo on label
- Liquid withdrawal tubes quick connection
- Anti-Filling – Rubber or metal seal :
  - Removable
  - Unremovable
  - Breakable
- Colored plastic handwheel: red, blue
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape



## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 4 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: plastic<br>Seat: PA66<br>O-ring : CR Rubber<br>Withdrawal tube: PA |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet 1 | Outlet 2 | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|---|
| **7601900445** | 3/4"-14 NGT | 1/2"-16 ACME-LH | 1/2"-16 ACME-LH | PRV 600 PSI | Blue Liquid - Red Vapor | Yes | Not Applicable | Ⓤ |
| **7601900446** | 3/4"-14 NGT | 1/2"-16 ACME-LH | 1/2"-16 ACME-LH | PRV 375 PSI | | Yes | Not Applicable | Ⓤ |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

# High Flow Refrigerant Gas Valve

## Key Features:

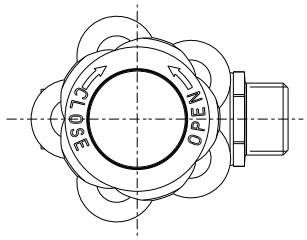
- Brass cylinder valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- π marking according TPED directive and EN ISO 10297
- CE marking according to PED diretive and EN 10297
- Spring Loaded PRV
- Single outlet
- High flow capacity

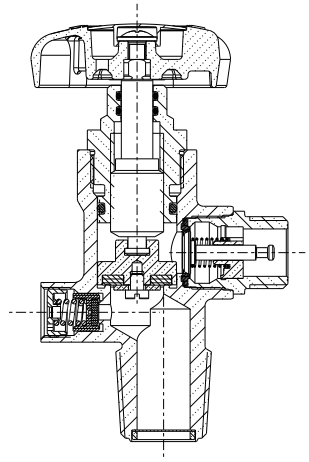
## Options:

- Customer's logo on label
- Cap nuts
- Anti-Filling – Rubber seal:
- Plastic inlet/outlet thread protection
- PRV plastic red cap
- Inlet thread dry sealant
- Inlet thread PTFE tape
- Residual pressure

## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 16mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |
| **Material** | Body: brass<br>Handwheel: Aluminum<br>Seat Pad: PTFE<br>O-ring : CR Rubber |
| **Inlet and outlet connections** | According to country standards |



## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|
| **7601900137** | 25E | W21.7 x 1/14" | PRV 600 PSI | Metallic Grey - Blue | Yes | Installed | π |
| **7601900099** | 25E | 1.030-14 MGO-RH-EXT | N.A. | Metallic Grey - Blue | Not Applicable | Not Applicable | CE |
| **7601900451** | 25E | W21.8 x1/14" LH | PRV 600 PSI | Metallic Grey - Green | | Installed | π |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

# Pressure Relief Valve for Refrigerant Gas

## Key Features:

- Brass pressure relief valve for refrigerant and cooling applications using halocarbons
- Permanent gas tight seal
- Spring Loaded PRV

## Specifications:

| | |
|---|---|
| **Test pressure** | 55 bar / 800 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | 5 mm |
| **Helium leak rate at Pmax** | internal 4,3 $10^{-3}$ mbarl/sec<br>external 4,3 $10^{-3}$ mbarl/sec |

## Example product details*:

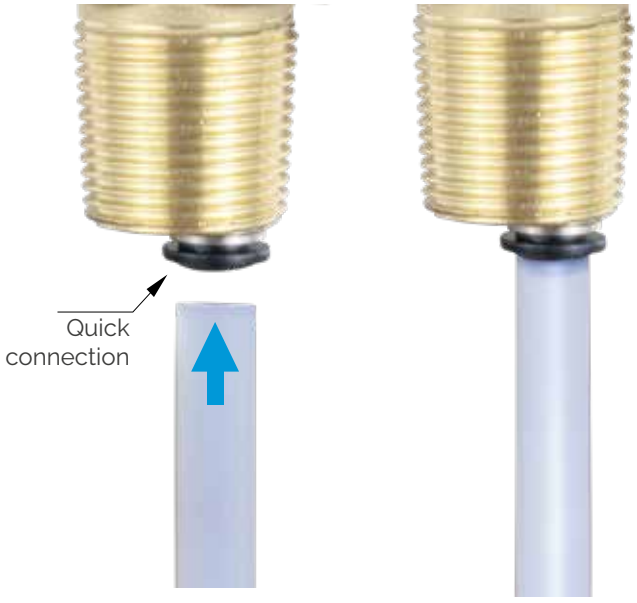
| Valves | Inlet | Safety Devices |
|---|---|---|
| **6602901276** | M19x1 | PRV 375 PSI |

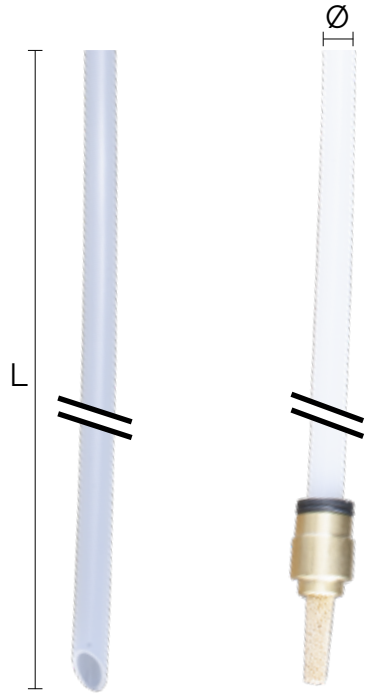
# Liquid Withdrawal tubes Quick Connection

CavagnaGroup® offers a wide range of tubes and tools to complement its line of valves for refrigerant gas cylinders.

## Specifications:

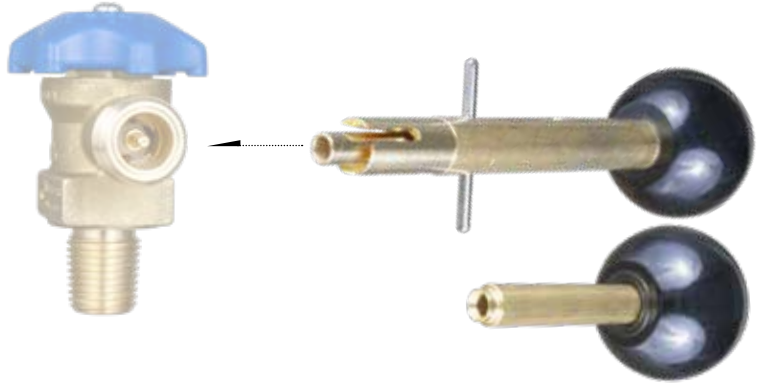
- Tube with or without filter
- Ø available: Ø6, Ø8 and Ø10
- Length available: on request
- Material available: PA




## Available tools to install and to remove:

Anti-Filling Breakable Version
Anti-Filling Removable Version
Anti-Filling Unremovable Version



# Y Valve for CO2

## Key Features:

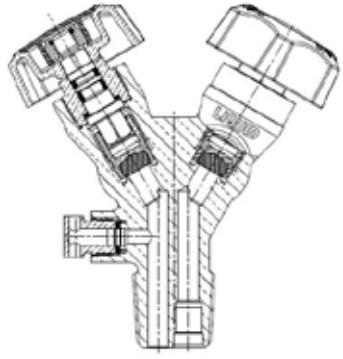
- Antifilling system
- Brass Cylinder valve for CO2 refrigerant application
- Permanent gas tight seal
- Bursting disk
- Dual outlet
- Residual pressure (3-5 bar)
- Tube threaded connection

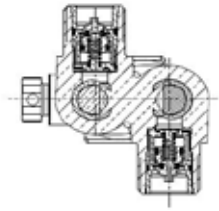

## Options:

- Customer's logo on label
- Different bursting disk settings
- dirrefernt threaded connection
- Filling connectors: ACRA020300

## Specifications:

| | |
|---|---|
| **Test pressure** | 250 bar / 3600 psi |
| **Service temperatures** | -40°C up to + 65°C |
| **Seat orifice size** | Ø 8 mm |
| **Pin range** | 2,5 mm |
| **Residual pressure range** | 3-5 bar |
| **Material** | Seat Pad: PA66<br>Antifriction ring: PA6<br>Antiextrusion ring: PA6<br>Toroidal rings: EPDM<br>Spring: Stainless steel<br>REsidual piston: Brass |
| **Inlet and outlet connections** | According to country standards |





## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|
| **VGF9RAC023** | 25E | W21.7x1/14"<br>W21.7x1/14" | RPV 250 bar | Blue Vapor - Red Liquid | no | Installed | π |
| **VGF9RAC016** | 25E | .860"-14 TPI<br>.860"-14 TPI | RPV 250 bar | Blue Vapor - Red Liquid | no | Installed | π |
| **VGF9RAC017** | 25E | W21.7x1/14"<br>W21.7x1/14" | RPV 250 bar | Blue Vapor - Red Liquid | no | Installed | π |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

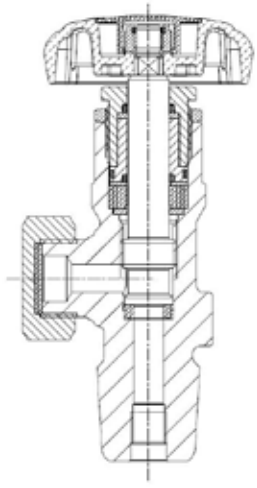
# Valve for Ammonia (NH3)

## Key Features:

- Steel of stainless steel body
- π marked
- Permanent gas tight seal
- Single outlet

## Options:

- Customer's logo
- Outlet cap
- Anti-filling metal seal



## Specifications:

| | |
|---|---|
| **Test pressure** | 33 bar / 480 psi |
| **Service temperatures** | -20°C up to + 65°C |
| **Seat orifice size** | Ø 8.2 mm |
| **Material** | Seat pad: KEL-F<br>Antifriction ring: PTFE +20% F.G.<br>Toroidal rings: EPDM |
| **Inlet and outlet connections** | According to country standards |

## Example product details*:

| Valves | Inlet | Outlet | Safety Devices | Colored Plastic Handwheel | Quick Tube Connection | Anti-filling | Homologation |
|---|---|---|---|---|---|---|---|
| **VGD4IAM501** | 25E | W21.8 | N.A. | Metallic Grey - Blue | no | Not Applicable | **π** |
| **VGD4IAM517** | 25E | W21.8 | N.A. | Metallic Grey - Blue | no | Not Applicable | **π** |
| **VGD4IAM001** | 25E | W21.8x1/14" | N.A. | Metallic Grey - Blue | no | Not Applicable | **π** |
| **VGD4IAM005** | 3/4"-14 NGT | 3/8"-18 NGT | N.A. | Metallic Grey - Blue | no | Not Applicable | **π** |
| **VGD4IAM018** | 25E | W30x1/14" | N.A. | Metallic Grey - Blue | no | Available | **π** |

* Here are some example codes that are intended for reference only, you may contact our sales department for further details.

# Nitrogen Regulator Series 5200 Single stage used in the Refrigerant Flush System

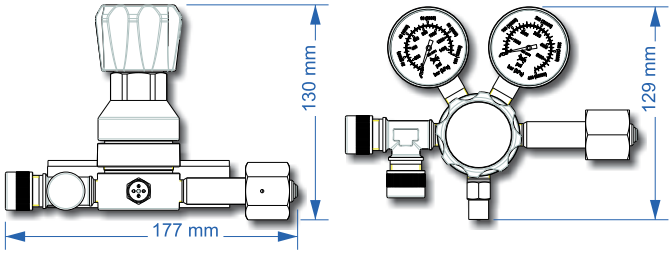

**Product description:**
Nitrogen Gas Regulator

**Usage:**
For use in the Refrigerant Flush System. The Nitrogen 5200-Series regulator is designed specifically to meet HVAC/R and automotive A/C systems requirements.

**AS4267:1995 Compliance:** Designed to meet all criteria
**Gauges** ISO 5171 (rubber protection available)
**Different position** configuration available
**Additional** inlet filter on demand
**Inlet&Outlet** per customer request
**Safety Device** available on demand
**Panel mount thread** available on demand

**Materials:**

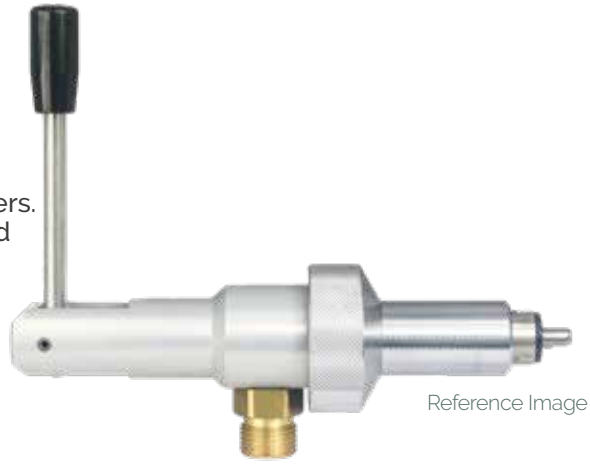
- Brass Component: CW508L, CW603N, CW614N, CW617N
- Body & Intermediate body: Brass WC603N
- Cover: Zamak3
- Spring plate: Zinc Plated Steel
- Inside Spring: Monel KS00
- Setting spring: Steel
- Seat: PTFE TFM 1700
- Diaphragm: Neoprene Rubber
- Incapsulated filter: Cupro nickel




| Gas | Inlet pressure | Outlet Pressure | Content Pressure Indicator | Delivery Pressure indicator | Operating Temperature Range |
|---|---|---|---|---|---|
| Nitrogen | Up to 300 bar | 0-35 bar | Gauge | Gauge | -20°C to +65°C |
| | | 0-60 bar | | | |

# Refrigerant Gases Filling Head for Handwheel Valves

## Manually Operated with Anti-filling opener



Reference Image

### 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 and ISO 11114/2.

### 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 filing operation.
3. Connected and disconnected manually by rotating the threaded ring nut.
4. Slim design makes it easy to handle and it fits easily inside any shroud.

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

Inlet connection: Refrigerant gas: W21,7 x 1/14" RH male, 625-18 UNF-2A-RH-EXT (3/8" SAE FLARE)

Outlet connection: Connects to valve outlet threads W21,7 x 1/14" RH male or W21,8 x 1/14" RH/LH male Valves with and without SRV.

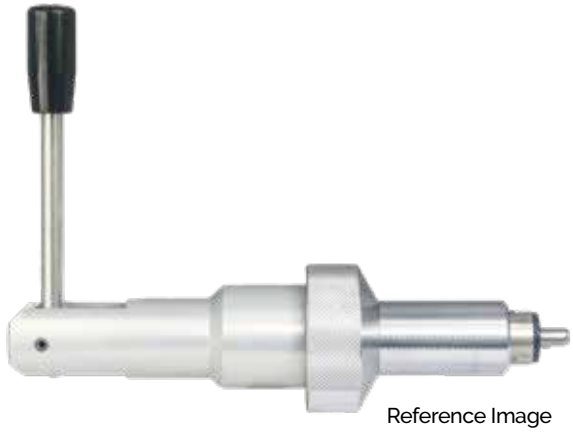
Supply pressures: Designed to operate within the normal supply pressures.
Liquid filling product: 1-50 bar.
Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure.

Function and Maintenance: The Filling Head is easy to operate. The anti-filing 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.

| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900108** | REFRIGERANT GAS W21,7 x 1/14" RH. | W21,7 x 1/14" RH. |
| **6882900115** | 625-18 UNF-2A-RH-EXT 3/8" SAE FLARE | W21,7 x 1/14" RH. |
| **6882900163** | REFRIGERANT GAS W21,7 x 1/14" RH. | W21,8 X 1/14" LH. |

# Refrigerant Gases Filling Head for Handwheel Valves

## Manually Operated with Anti-filling opener



Reference Image

### 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 and ISO 11114/2.

### 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 filing operation.
3. Connected and disconnected manually by rotating the threaded ring nut
4. Slim design makes it easy to handle and it fits easily inside any shroud.

| | |
|---|---|
| Inlet connection: | Refrigerant gas: G 3/8". |
| Outlet connection: | Connects to valve outlet threads 1,030 x 14 NGO RH, CGA660<br>Valves with and without SRV. |
| Supply pressures: | Designed to operate within the normal supply pressures.<br>Liquid filling product: 1-50 bar.<br>Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure. |
| Function and Maintenance: | The Filling Head is easy to operate. The anti-filing opener spindle is connected to the end of the anti-filing 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.<br>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.<br>All rubber seals in contact with the gas as can be exchanged. |

| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900114** | REFRIGERANT GAS G 3/8" | 1,030 x 14 NGO RH, CGA660 |
| **6882900126** (Short version) | REFRIGERANT GAS G 3/8" | 1,030 x 14 NGO RH, CGA660 |

# Refrigerant Gases Filling Head for Handwheel 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 and ISO 11114/2.

Reference Image

### 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.

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.<br>Valves with and without SRV. |
| Supply pressures: | Designed to operate within the normal supply pressures.<br>Liquid filling product: 1-50 bar<br>Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure. |
| 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.<br>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. |

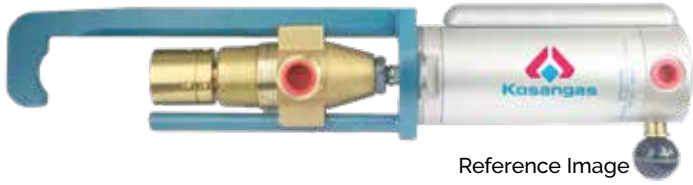
| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900121** | REFRIGERANT GAS W21,7 x 1/14" RH. | W21,7 x 1/14" RH. |

# Refrigerant Gases Filling Head for Handwheel Valves

## Semi-automatic

### Materials and standards

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549 and ISO 11114/2.



Reference Image

### 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.

| | |
|---|---|
| Inlet connection: | Refrigerant: 3/8" GAS<br>Pneumatic air: 1/4" GAS. |
| Outlet connection: | Connects to standard outlet male threads such as G1, G2, G4, G5, G6, G8, G11, G12 acc. to EN 15202.<br>Valves with and without SRV. |
| Supply pressures: | Designed to operate within the normal supply pressures.<br>Pneumatic supply: 6 - 10 bar. Liquid filling product: 1-50 bar.<br>Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure. |
| Function and Maintenance: | The Filling Head is easy to operate. The clamping brace is placed around the neck of the cylinder valve.<br>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. |

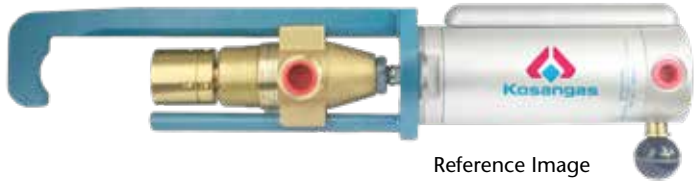
| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900043** | REFRIGERANT GAS 3/8"<br>AIR 1/4" | Standard Hand wheel male outlet with and without SRV Type 129A |

# Refrigerant Gases Filling Head for Handwheel Valves

## Semi-automatic

### Materials and standards

The Filling Head is made of corrosion-resistant materials such as stainless steel, brass, aluminium and special polymers. The rubber materials used are developed and manufactured according to the requirements of EN 549 and ISO 11114/2.



Reference Image

### 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.

| | |
|---|---|
| Inlet connection: | Refrigerant gas:3/8" G<br>Pneumatic air:1/4" G. |
| Outlet connection: | Connects to standard outlet valve male threads such as G1, G2, G4, G5, G6, G8, G11, G12 acc. to EN15202.<br>Valves with and without SRV. |
| Supply pressures: | Designed to operate within the normal supply pressures.<br>Pneumatic supply: 6 - 10 bar. Liquid filling product: 1-50 bar<br>Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure. |
| 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. |

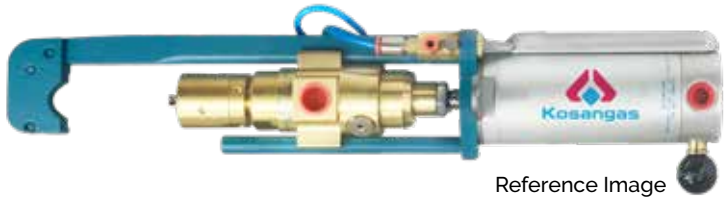
| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900105** | REFRIGERANT GAS 3/8"<br>PNEUMATIC AIR 1/4" | 1/4" SAE Flare valve outlet<br>with and without SRV |

# Refrigerant Gases Filling Head for Handwheel Valves

## Semi-automatic with Antifilling 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 and ISO 11114/2.



Reference Image

### 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.

| | |
|---|---|
| Inlet connection: | Refrigerant: 3/8" GAS<br>Pneumatic air: 1/4" GAS. |
| Outlet connection: | Connects to standard outlet male threads such as G1, G2, G4, G5, G6, G8, G11, G12 acc. to EN 15202.<br>Valves with and without SRV. |
| Supply pressures: | Designed to operate within the normal supply pressures.<br>Pneumatic supply: 6 - 10 bar. Liquid filling product: 1-50 bar.<br>Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure. |
| 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 Maintenance: 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. |

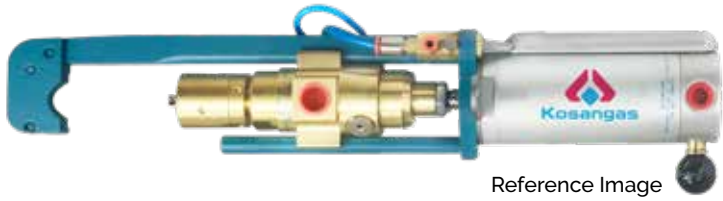
| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900065** | REFRIGERANT GAS 3/8"<br>PNEUMATIC AIR 1/4" | Standard Hand wheel<br>male outlet with and without SRV |
| **6882900127**<br>(Stronger version) | REFRIGERANT GAS 3/8"<br>PNEUMATIC AIR 1/4" | Standard Hand wheel<br>male outlet with and without SRV |
| **6882900134** | REFRIGERANT GAS 3/8"<br>PNEUMATIC AIR 1/4" | Standard Hand wheel<br>male outlet with and without SRV |

# Refrigerant Gases Filling Head for Handwheel Valves

## Semi-automatic with Antifilling 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 and ISO 11114/2.



Reference Image

### 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.

| | |
|---|---|
| Inlet connection: | Refrigerant: 3/8" GAS<br>Pneumatic air: 1/4" GAS. |
| Outlet connection: | Connects to outlet valve male thread 1,030"-14 NGO-RH-EXT, CGA660.<br>Valves with and without SRV. |
| Supply pressures: | Designed to operate within the normal supply pressures.<br>Pneumatic supply: 6 - 10 bar. Liquid filling product: 1-20 bar<br>Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure. |
| 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. |

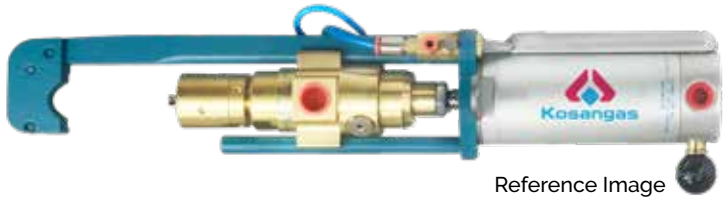
| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900128** | REFRIGERANT GAS 3/8"<br>PNEUMATIC AIR 1/4" | 1,030"-14 NGO-RH-EXT, CGA660<br>male outlet with and without SRV |

# Refrigerant Gases Filling Head for Handwheel Valves

## Semi-automatic with Antifilling opener for filling line evacuation

### 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 and ISO 11114/2.



Reference Image

### 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.

| | |
|---|---|
| Inlet connection: | Refrigerant: 3/8" GAS<br>Pneumatic air: 1/4" GAS. |
| Outlet connection: | Connects to standard outlet valve male threads such as G1, G2, G4, G5, G6, G8, G11, G12 acc. to EN15202.<br>Valves with and without SRV. |
| Supply pressures: | Designed to operate within the normal supply pressures.<br>Pneumatic supply: 6 - 10 bar. Liquid filling product: 1-20 bar<br>Filling time approx. 2 sec./Kg liquid at 7 bar differential pressure. |
| 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.<br>The Filling Head is equipped with a gas recovery system. |

| Reference Numbers | Inlet Connection | Outlet Connection |
|---|---|---|
| **6882900112** | REFRIGERANT GAS 3/8"<br>AIR 1/4" | Standard Handwheel male outlet<br>with and without SRV |

# Filling Head valves for Refrigerant Gases

| Valve Model | | Semi-Automatic Filling Heads | Manual Filling Heads |
|---|---|---|---|
|  | "W21,7 x 1/14" RH +/- anti-filling | / | 6882900108<br>6882900115 |
|  | "W21,8 x 1/14"" RH +/- anti-filling | / | 6882900163 |
|  | W21,7 x 1/14" RH +/- anti-filling (7601900193)<br>W21,8 x 1/14" RH +/- anti-filling | 6882900065 | 6882900121 |
|  | W21,7 x 1/14" LH +/- anti-filling (7601900193)<br>W21,8 x 1/14" LH +/- anti-filling (7601900420) | 6882900065 | / |
|  | 1,030 x 14 NGO RH, CGA660 +/- anti-filling | 6882900128 | 6882900114 (short version)<br>6882900126 (short version) |
|  | Std. male outlets - anti-filling | 6882900043 | / |
|  | Std. male outlets +/- anti-filling (7601900429) | 6882900065<br>6882900112<br>6882900127 | / |
|  | 1/4" SAE Flare -anti-filling | 6882900105 | / |
|  | W21,8 x 1/14" RH +/- anti-filling (example 7601900333) | 6882900134 | / |

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# Manufacturing Facilities

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