

LP GAS PRODUCTS



POL & ACME FITTINGS

p.459-467



REGULATORS

p.468-477



TANK EQUIPMENT

p.478-490



BULK STORAGE & TRUCK EQUIPMENT

p.492-499

**ALSO AVAILABLE: YELLOW BRASS FITTINGS • COPPER AND ALUMINUM TUBING •
BRASS VALVES • MALLEABLE FITTINGS • STEEL NIPPLES • QUICK DISCONNECTS •
FORGED FITTINGS • GAUGES • SWAGES AND BULLPLUGS**

NPGA

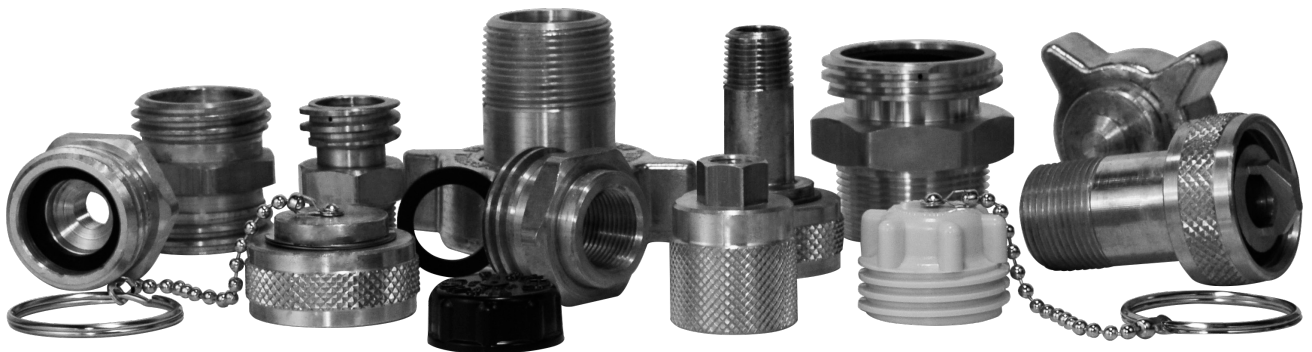
NATIONAL PROPANE GAS ASSOCIATION

POL ADAPTERS, CONNECTORS & FITTINGS

- Used for making connections in LP Gas systems
- POL Thread 880-14LH
- All bottle fittings are UL listed



ACME ADAPTERS, CONNECTORS & FITTINGS



Products meet or exceed the requirements of Compressed Gas Association (CGA), the National Fire Protection Association (NFPA), the Canadian Gas Association, American Society of Mechanical Engineers (ASME) and Underwriters Laboratories (UL).

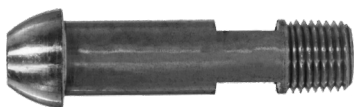
POL FITTINGS**LP GAS****TEE CONNECTION**

| Part # | Pipe Size | List Price |
|--------|-----------------------------------|------------|
| 34-001 | 1/4" Inverted flare x 1/4" MPT | 34.25 |

41-1-390-0014 2000

TAILPIECE WITH FLATS

1/4 NPT

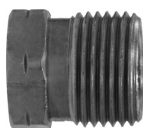


| Part # | Length | List Price |
|--------|----------------------|------------|
| 34-011 | 2.34 w/ wrench Flats | 19.10 |
| 34-012 | 2.13 w/ Hex | 9.23 |

1001AUL 21605 M-2001-A 2002A 2001AHN

STANDARD NUT

7/8" Hex



| Part # | Pipe Size | List Price |
|--------|------------|------------|
| 34-016 | .880-14 LH | 4.32 |

2001B

TAILPIECE & NUT ASSEMBLY

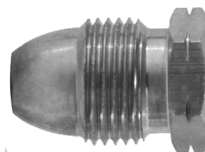
| Part # | Pipe Size | List Price |
|--------|-----------|------------|
| 34-022 | 1/4 | 21.53 |

2002AB

POL CAP

| Part # | Pipe Size | List Price |
|--------|-----------|------------|
| 34-031 | .880-14LH | 12.13 |

ME1699 POL2004 1004A M-2004

POL PLUG

| Part # | Length | List Price |
|--------|----------|------------|
| 34036 | POL PLUG | 4.20 |

ME1691

POL PLUG WITH CHAIN

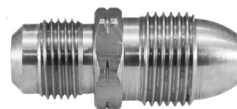
| Part # | Length | List Price |
|--------|---------------------|------------|
| 34141 | POL PLUG WITH CHAIN | 41.10 |

ME1691-1

SINGLE PIECE POL ADAPTER

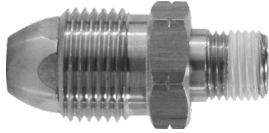
| Part # | Length | List Price |
|--------|--------------------|------------|
| 34130 | MALE POL X 1/4 FPT | 6.72 |
| 34131 | MALE POL X 1/2 FPT | 31.98 |

ME351 ME357

ADAPTERS

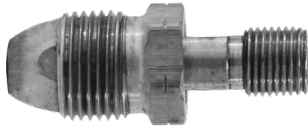
| Part # | Pipe Size | List Price |
|--------|-----------------------|------------|
| 34-041 | 3/8 Flare x .880-14LH | 17.59 |
| 34-046 | 1/2 Flare x .880-14LH | 17.49 |
| 34-051 | 5/8 Flare x .880-14LH | 23.61 |

ME3510 2906E 2007

LP GAS**POL FITTINGS****TAILPIECE ASSEMBLY W/HEX HEAD
NUT & STEM**

| Part # | Length | List Price |
|--------|---|------------|
| 34080 | 1/4 NPT X POL 2 LONG HARD NOSE 2 OAL | 10.80 |
| 34082 | MALE POL X 3/8 NPT | 14.58 |

2906D ME352



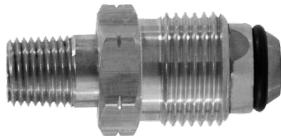
| Part # | Length | List Price |
|--------|---|------------|
| 34088 | MPOL HARD NOSE 9/16- 18 FE LH THREAD | 17.46 |

ME1650



| Part # | Length | List Price |
|--------|---------------------------------|------------|
| 34084 | MPOL X 1/4 HOSE BARB 7/8 HEX | 15.36 |

ME5930 970JR

SOFT NOSE TAILPIECE ASSEMBLY

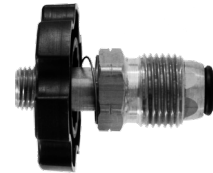
| Part # | Length | List Price |
|--------|---|------------|
| 34060 | 1/4 NPT X POL 2.1 LONG #60 ORIFICE | 15.06 |
| 34061 | 1/4 MPT X POL SOFT NOSE 2-1/2 | 12.06 |
| 34062 | 1/4 NPT POL SOFT NOSE #60 ORIFICE 2.3 LONG | 15.30 |
| 34063 | POL X 9/16-18 LH TAILPIECE SOFT NOSE | 12.72 |
| 34064 | 1/4 NPT X POL SOFT NOSE 2 3/8 LONG | 17.70 |

ME1638 2003-T-GH-60 2002 2018-L 2003-T 970S

HAND WHEEL POL ADAPTERS

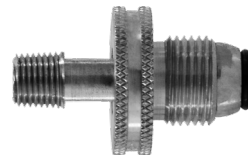
| Part # | Length | List Price |
|--------|--|------------|
| 34065 | MPOL SOFT NOSE X 1/4 HOSE BARB BR.WHEEL | 24.54 |

ME1656AR



| Part # | Length | List Price |
|--------|--|------------|
| 34072 | 1/4 MPT POL SOFT NOSE W/PLASTIC WHEEL | 23.40 |

ME1654



| Part # | Length | List Price |
|--------|---|------------|
| 34073 | 1/4 MPT POL SOFT NOSE WITH BRASS WHEEL | 24.78 |

ME1654AR



| Part # | Length | List Price |
|--------|--|------------|
| 34074 | MPOL SOFT NOSE X 1/4 HB W/PLASTIC WHEEL | 16.92 |

ME1656

POL FITTINGS

PROPANE MOTOR FUEL FILL ADAPTER

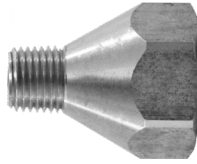


- Allows a standard POL fitting to be adapted to fill an engine fuel tank.

| Part # | Length | List Price |
|--------|------------------------------------|------------|
| 34079 | FE POL X 1 3/4 ACME FUEL FILL ADPT | 86.64 |

ME458 2017

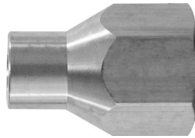
FEMALE POL X MIP ADAPTER



| Part # | Length | List Price |
|--------|--------------------------|------------|
| 34111 | 1/4 MPT X FE POL ADAPTER | 9.66 |
| 34112 | 3/8 MPT X FE POL ADAPTER | 26.16 |
| 34113 | 1/2 MPT X FE POL ADAPTER | 14.10 |
| 34114 | 3/4 MPT X FE POL ADAPTER | 17.16 |

2011-B ME285 2011-D 2011-E

FEMALE FPT X FEMALE POL ADAPTER



| Part # | Length | List Price |
|--------|------------------|------------|
| 34120 | 1/4 FPT X FE POL | 13.56 |
| 34121 | 3/8 FPT X FE POL | 41.58 |
| 34122 | 1/2 FPT X FE POL | 16.32 |
| 34123 | 3/4 FPT X FE POL | 64.80 |

2016-B ME302 2016-D ME304

POL O-RING ONLY



| Part # | Length | List Price |
|--------|-----------------|------------|
| 34143 | POL O-RING ONLY | 0.60 |

C5-OR-POL 568-110-01

LP GAS

POL PLASTIC DUST PLUG



| Part # | Length | List Price |
|--------|-----------------------|------------|
| 34160 | POL PLASTIC DUST PLUG | 1.86 |

ME970P

APPLIANCE TEE



- Tap & Add

| Part # | Length | List Price |
|--------|--|------------|
| 34170 | M.POLXF.POL W/1-20M CYL AND 1/4 INV FLAR | 72.84 |

2090



- Add an appliance

| Part # | Length | List Price |
|--------|--|------------|
| 34172 | M.POLXF. POL W/1-20 MALE CYLINDER THREAD | 56.34 |

2012

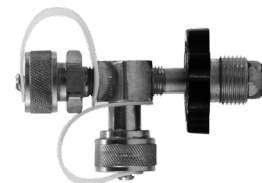


- With QCC1 connection

| Part # | Length | List Price |
|--------|--|------------|
| 34174 | QCC1 X F. POL W/1-20 MALE CYLINDER THD | 56.40 |

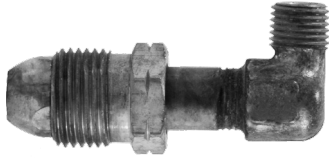
2013

DUAL APPLIANCE TEE



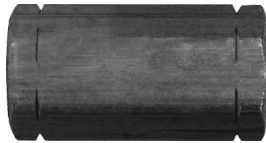
| Part # | Length | List Price |
|--------|--|------------|
| 34176 | M.POL X (2) OF 1-20 MALE CYLINDER THREAD | 66.48 |

2099

LP GAS**POL FITTINGS****ANGLE ADAPTER - 7/8" NUT**

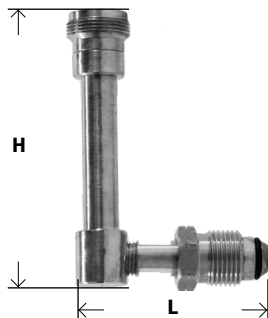
| Part # | Length | List Price |
|--------|----------------------------|------------|
| 34089 | 1/4 M POL 90 ANGLE ADAPTER | 27.24 |

ME345

FEMALE POL ADAPTER

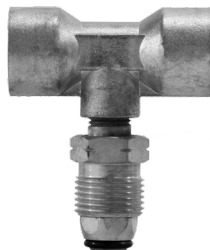
| Part # | Length | List Price |
|--------|-----------------|------------|
| 34179 | FE POL X FE POL | 37.62 |

ME305

CYLINDER PRIMUS BY O-RING POL

| Part # | Length | List Price |
|--------|---|------------|
| 34180 | POL X 1-20 X M14 X 1.5 4 1/4 HIGH 3 LONG | 38.40 |

8815

MANIFOLD BLOCK TEE ASSEMBLY

- For dual tank installations
- Compact forged pattern
- 2-9/16W x 3-1/8H

| Part # | Length | List Price |
|--------|--|------------|
| 34181 | FE POL (2) X MALE SOFT NOSE POL TEE | 34.08 |

2001-SE

TEE BLOCK MANIFOLD

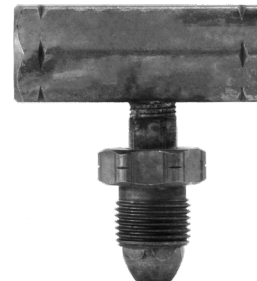
| Part # | Length | List Price |
|--------|---|------------|
| 34186 | FE X MALE POL MANIFOLD BLOCK TEE ASSY | 44.94 |

2001-S ME1701B 2001-SX

TEE CHECK MANIFOLD

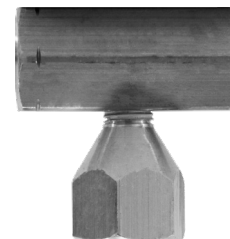
| Part # | Length | List Price |
|--------|-------------------------------|------------|
| 34198 | FE POL X 1/4 MPT TEE CHECK | 77.94 |

ME1705A

TEE CHECK MANIFOLD

| Part # | Length | List Price |
|--------|--------------------------------|------------|
| 34195 | FE POL X MALE POL TEE CHECK | 62.94 |

ME1702A

MANIFOLD TEE

- All ends Female POL

| Part # | Length | List Price |
|--------|---------------------|------------|
| 34192 | FE POL MANIFOLD TEE | 36.90 |

2001-F

ACME FITTINGS

LP GAS

PLASTIC BLACK CAP



| Part # | Length | List Price |
|--------|--------------------------|------------|
| 35201 | 1 1/4 F ACME PLASTIC CAP | 20.10 |
| 35200 | 1 3/4 F ACME PLASTIC CAP | 24.60 |

M108 M109 3144-9P 3174-9P

PLASTIC CAP WITH CHAIN



| Part # | Length | List Price |
|--------|-------------------------------------|------------|
| 35205 | 1 3/4 F.ACME PLASTIC CAP WITH CHAIN | 12.25 |
| 35208 | 2 1/4 F.ACME CAP WITH CHAIN | 33.00 |

ST-M109-1 ST-1177C

PLASTIC PLUG WITH CHAIN



| Part # | Length | List Price |
|--------|--------------------------------------|------------|
| 35215 | 1 1/4 M.ACME PLASTIC PLUG WITH CHAIN | 69.96 |
| 35216 | 1 3/4 M.ACME PLASTIC PLUG WITH CHAIN | 46.74 |
| 35217 | 2 1/4 M.ACME PLASTIC PLUG WITH CHAIN | 56.88 |

ST-M178-1 ST-M179-1 ST-M180-1

ACME GASKET



| Part # | Length | List Price |
|--------|-------------------|------------|
| 35672 | 1 1/4 ACME GASKET | 2.23 |
| 35673 | 1 3/4 ACME GASKET | 1.14 |
| 35674 | 2 1/4 ACME GASKET | 3.74 |

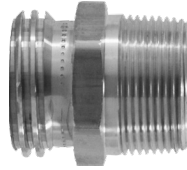
1E8122 ST-1102A-16 ST-1E8126

FIP ADAPTER



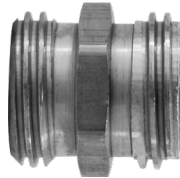
| Part # | Length | List Price |
|--------|-------------------------------------|------------|
| 35650 | 1 3/4 ACME THREAD X 1/4 FIP ADAPTER | 40.86 |
| 35651 | 1 3/4 ACME THREAD X 3/8 FIP ADAPTER | 40.86 |
| 35652 | 1 3/4 ACME THREAD X 1/2 FIP ADAPTER | 40.86 |
| 35653 | 1 3/4 ACME THREAD X 3/4 FIP ADAPTER | 43.68 |
| 35654 | 1 3/4 ACME THREAD X 1 FIP ADAPTER | 48.96 |
| 35-692 | 3-1/4 ACME X 2 FIP ADAPTER | 243.36 |

ME210 ME211 ME212 ME213 ME214 ME252-16
5764A 5764B 5764C 5764D 5764E 5764H

LP GAS**ACME FITTINGS****MALE ACME X MPT ADAPTER**

| Part # | Length | List Price |
|--------|-------------------------------------|------------|
| 35680 | 1 1/4 M.ACME X 1/2 MPT | 88.92 |
| 35681 | 1 1/4 M.ACME X 3/4 MPT | 88.92 |
| 35682 | 1 3/4 M.ACME X 3/4 MPT | 55.86 |
| 35683 | 1 3/4 M.ACME X 1 MPT | 55.86 |
| 35684 | 1 3/4 M.ACME X 1 1/4 MPT | 55.26 |
| 35685 | 2 1/4 M.ACME X 1 1/4 MPT ADAPTER | 213.72 |
| 35686 | 3 1/4 M.ACME X 2 MPT ADAPTER | 266.34 |
| 35687 | 3 1/4 M.ACME X 3 MPT ADAPTER | 630.18 |

ME498-4/2 ME498 6/3 ME215 ME216 ME217
5763D 5765D 5765E 5765F

MALE ACME X MALE ACME ADAPTER

| Part # | Length | List Price |
|--------|--------------------|------------|
| 35690 | 1 1/4 ACME ADAPTER | 129.20 |
| 35691 | 1 3/4 ACME ADAPTER | 96.36 |

ME270 ME273 5765M

MALE ACME X FIP X MIP ADAPTER

| Part # | Length | List Price |
|--------|---|------------|
| 35648 | 1 1/4 ACME X 1/4 FIP X 1/2 MIP ADAPTER | 89.28 |
| 35649 | 1 1/4 ACME X 3/8 FIP X 3/4 MIP ADAPTER | 89.28 |
| 35655 | 2 1/4 ACME THREAD X 1 FIP X 1 1/2 MPT | 281.64 |
| 35656 | 2 1/4 ACME THREAD X 1 1/4 X 2 MPT | 279.06 |
| 35657 | 2 1/4 ACME THREAD X 1 1/2 X 2 MPT | 294.18 |

1009500255 1009500256 ME502-12/8 ME502-16/10
ME502-16/12 5766E 5766F 5766H

FILLER COUPLING FE ACME X MIP ADAPTER

| Part # | Length | List Price |
|--------|------------------------|------------|
| 35710 | 1 1/4 F.ACME X 3/8 NPT | 75.78 |
| 35711 | 1 1/4 F.ACME X 1/2 NPT | 75.78 |
| 35712 | 1 3/4 F.ACME X 1/2 NPT | 71.70 |
| 35713 | 1 3/4 F.ACME X 3/4 NPT | 72.00 |
| 35714 | 1 3/4 F.ACME X 1 NPT | 72.00 |

ME100 ME101 ME110 ME111 ME112
3171 31715B

**VAPOR COUPLING
FEMALE ACME X MIP ADAPTER**

| Part # | Length | List Price |
|--------|-------------------------------------|------------|
| 35570 | 1 1/4 F/ACME X 3/8 MIP ADAPTER | 62.46 |
| 35571 | 1 1/4 F/ACME X 1/2 MIP ADAPTER | 62.46 |
| 35573 | 1 1/4 F/ACME X 1 MIP ADAPTER | 172.44 |
| 35572 | 1 3/4 F/ACME X 3/4 MIP ADAPTER | 177.96 |
| 35574 | 2 1/4 F/ACME X 1 1/4 MIP ADAPTER | 637.32 |

ME140 ME141 ME151 ME150 ME160
3171 3171A 3181A 3181

WINGNUT ACME CAP

| Part # | Length | List Price |
|--------|------------------|------------|
| 35762 | 1 3/4 F.ACME CAP | 210.42 |
| 35763 | 2 1/4 F.ACME CAP | 255.78 |

ME229-F

ACME FITTINGS**LP GAS****WING NUT****FEMALE ACME X MALE ACME ADAPTER**

| Part # | Length | List Price |
|--------|--|------------|
| 35665 | 2 1/4 F.ACME X 1 3/4 M. ACME ADAPTER | 438.30 |
| 35666 | 3 1/4 FE ACME X 1 3/4 MALE ACME ADAPTER | 500.88 |

ME611 ME612 5776

WING NUT**FEMALE ACME X 1-1/4 MIP ADAPTER**

| Part # | Length | List Price |
|--------|--------------------------|------------|
| 35715 | 2 1/4 F.ACME X 1 1/4 NPT | 305.64 |

ME120 1009500257 3185

POWDER COATED WING NUT ACME CAP

| Part # | Length | List Price |
|--------|----------------------------------|------------|
| 35770 | 1 3/4 F.ACME POWER COATED CAP | 295.80 |

ME229FY

ACME CAP

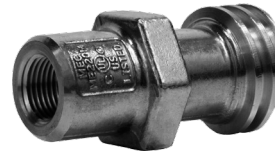
| Part # | Length | List Price |
|--------|-------------------|------------|
| 35760 | 1 3/4 FE ACME CAP | 94.92 |
| 35844 | 1 1/4 FE ACME CAP | 38.70 |

ME229 ME220FP 7141FP

CAP WITH CHAIN

| Part # | Length | List Price |
|--------|--------------------------------|------------|
| 35761 | 1 3/4 F.ACME CAP WITH CHAIN | 107.94 |

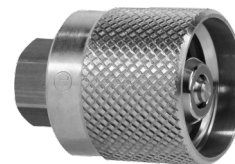
ME229-1

ACME CHECK CONNECTOR

- Couples directly to the service valve
- Use with **35810**

| Part # | Length | List Price |
|--------|------------------------------------|------------|
| 35792 | 3/8 FNPT X 1 1/4 M.ACME FITTING | 43.98 |

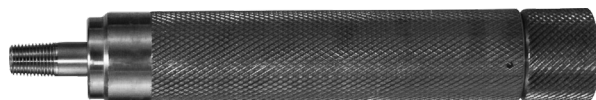
ME220M 7141M

ACME CHECK CONNECTOR

- Accepts fuel line adapter and couples directly to **35792**

| Part # | Length | List Price |
|--------|------------------------|------------|
| 35810 | 1 1/4 F.ACME X 1/4 FPT | 65.34 |

ME220F 7141F

FILLER VALVE

| Part # | Length | List Price |
|--------|------------------------|------------|
| 35840 | 1 1/4 F.ACME X 1/4 MPT | 393.24 |

ME2790

**STEEL WING NUT
FEMALE ACME X MALE ACME ADAPTER**



| Part # | Length | List Price |
|--------|---|------------|
| 35666S | 3-1/4 FE ACME X 1-3/4 MALE ACME ADAPTER | 428.88 |

STEEL MALE ACME X FPT ADAPTER



| Part # | Length | List Price |
|--------|---------------------------------------|------------|
| 35692S | 3-1/4 MALE ACME X 2 FPT STEEL ADAPTER | 362.10 |

ACME CAP WITH CHAIN



| Part # | Length | List Price |
|--------|-------------------|------------|
| 35766 | 1-3/4 FEMALE ACME | 235.20 |
| 35767 | 2-1/4 FEMALE ACME | 274.98 |
| 35768 | 3-1/4 FEMALE ACME | 394.26 |

STEEL MALE ACME X MIP ADAPTER



| Part # | Length | List Price |
|--------|--------------------------|------------|
| 35684S | 1-3/4 M ACME X 1-1/4 MPT | 86.16 |
| 35685S | 2-1/4 M ACME X 1-1/4 MPT | 231.54 |
| 35686S | 3-1/4 M ACME X 2 MPT | 399.90 |

ACME CAP WITH METALIC CABLE



| Part # | Length | List Price |
|--------|-------------------|------------|
| 35771 | 1-3/4 FEMALE ACME | 235.20 |
| 35773 | 3-1/4 FEMALE ACME | 394.26 |

REGULATORS

LP GAS PRODUCTS



DOMESTIC



Propane Regulators for Industrial, Commercial and Residential use.



First Stage



Second Stage



Second Stage with
incorporated Dielectric Protection



2 PSIG Second Stage

COMMERCIAL/ INDUSTRIAL



Pound to Pound
High Pressure



First Stage
High Pressure



Adjustable
High Pressure



High capacity regulators
up to 7.7 M BTU



RECREATIONAL VEHICLES



Single Barb
Low Pressure



Double Stage
ASME Regulator



Automatic Changeover



Automatic Changeover

OUTDOOR



Single Stage



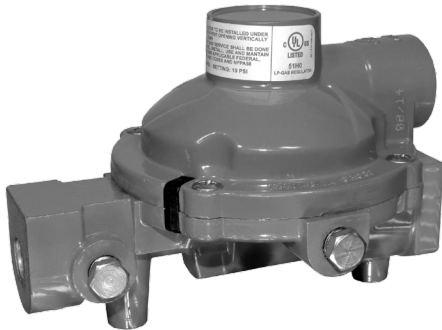
Double Stage



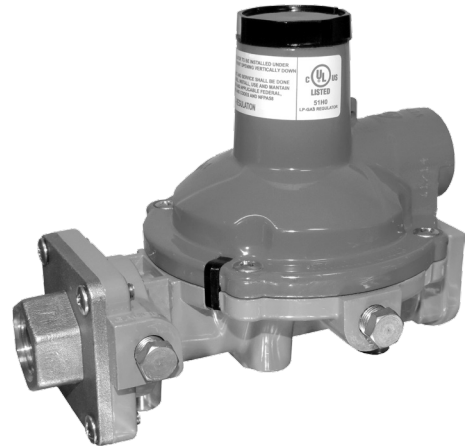
Adjustable
High Pressure



Single Stage High
Pressure

Type 984HP**Product description**

The first stage regulator is a regulator reducing the inlet pressure coming from the withdrawal cylinder to a medium level suitable for feeding a second stage regulator consequently. Therefore Type 984 HP regulators are designed for Type A installations, or for installations Type C. They have to be used outdoors in correct mounting position with vent-hole turned downwards. In their standard version the Type 984 HP regulators are delivered with vent-hole turned in line with the outlet fitting.

Type 988HP**Technical Specifications**

Body And Cover: Aluminium

Diaphragm: Reinforced

Supplying Pressure: 25-250 PSIG

Cover Screws: Stainless Steel

Inlet Fitting Screws: Stainless Steel

Gas Type: Propane

Setting Point: Inlet Pressure 100 PSIG, 140,000 BTU, Outlet Pressure 10 PSIG

Provided Flows: Flow Based On 25 PSIG (1.725 Bar) Inlet Pressure And 20% Drop (In accordance with UL 144)

Type 984HP - L 4.881 x W 4.33 x H 3.917" Weight: 31.375 oz

Type 988HP - L 6.027 x W 4.33 x H 4.94" Weight: 48.75 oz

984HP & 988HP CONFIGURATIONS

| Part # | Capacities in BTU\hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | Outlet adjustment range, PSIG (bar) | Outlet pressure setting, PSIG (bar) | List Price |
|--------|-------------------------------------|--------------------------|---------------------------|-------------------------------------|-------------------------------------|------------|
| 200000 | 1,000,000 (11.26) | 1/4" NPT | 1/2" NPT | No adjustment | 10 (0.69) | 101.70 |
| 200001 | 2,000,000 (22.51) | 1/2" NPT | | 4 to 6 (0.28 to 0.41) | 5 (0.34) | 147.12 |
| 200002 | | POL | | | | 147.12 |
| 200003 | 2,250,000 (25.33) | 1/2" NPT | 3/4" NPT | 8 to 12 (0.55 to 0.83) | 10 (0.69) | 147.12 |
| 200004 | 2,100,000 (23.64) | | 1/2" NPT | | | 147.12 |
| 200005 | 2,400,000 (27.01) | | 3/4" NPT | | | 147.12 |
| 200006 | 2,100,000 (23.64) | POL | 1/2" NPT | | | 147.12 |
| 200007 | 2,250,000 (25.33) | | 3/4" NPT | | | 147.12 |

SECOND STAGE REGULATORS

LP GAS

Type 988LP**Product description**

The second stage regulator is a regulator reducing the pressure coming from a first stage regulator directly to the inlet pressure of the user appliance, or to a medium pressure value in case of installations with Line Pressure Regulators. Therefore Type 988 LP regulators are designed for Type A installations. They have to be used outdoors in correct mounting position with venthole turned downwards. In the standard version these regulators are delivered with vent-hole in line with the inlet fitting. But there are three other configurations of the inlet and outlet fittings for the Type 998 LP model:

- Back Mount 998 LP-03, 998 LP-04 and 998LP-29 (fig. A)
- Angle Body 998 LP-05 (fig. B)
- In line inlet and outlet Flange 998 LP-09 and 998LP-10 (fig. C)

Type 998LP**Technical Specifications**

Body And Cover: Aluminium

Diaphragm: Reinforced

Supplying Pressure: 5-15 PSIG

Cover Screws: Stainless Steel

Inlet Fitting Screws: Stainless Steel

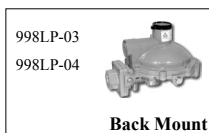
Gas Type: Propane

Setting Point: Inlet Pressure 10 PSIG, 140,000 BTU, Outlet Pressure 11 Inch WC

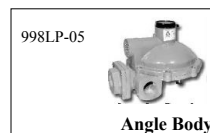
Provided Flows: Flow based On 10 PSIG (0.69 Bar) Inlet Pressure And 20% Drop (In accordance With UL144).

Type 988LP - L 6.027 x W 4.33 x H 4.94" Weight: 40.75 oz

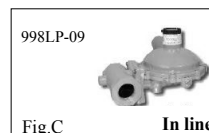
Type 998LP - L 7.055 x W 5.657 x H 4.964" Weight: 57.625 oz



Weight: 56.625 oz



Weight: 58.25 oz



Weight: 106.25 oz

988LP & 998LP CONFIGURATIONS

| Part # | Capacities in BTU/hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | Outlet pressure range, inches W.C. (mbar) | Outlet pressure setting, inches W.C. (mbar) | List Price |
|--------|--|-----------------------------|------------------------------|---|---|------------|
| 200010 | 800,000 (9.01) | 1/2" NPT | 1/2" NPT | 9 to 13 (22 to 32) | 11 (27) | 118.08 |
| 200012 | 1,000,000 (11.26) | | | | | 142.62 |
| 200013 | 1,400,000 (15.76) | | 3/4" NPT | | | 134.34 |
| 200014 | | | | | | |
| 200015 | | 3/4" NPT | 134.34 | | | |
| 200016 | 920,000 (10.36) | 3/4" NPT LAT | 147.42 | | | |
| 200017 | 1,000,000 (11.26) | 1/2" NPT | 3/4" NPT 90° | | | 142.62 |
| 200018 | | 3/4" NPT | | | | 142.62 |
| 200020 | 2,300,000 (25.89) | | 3/4" NPT | | | 304.14 |
| 200021 | | 1" NPT | 1" NPT | | | 304.14 |

¹ Vent-hole in line with the outlet fitting.

Type 998LP*Type 998TP***WITH INCORPORATED DIELECTRIC UNION****Product description**

The KOSAN+ Guardian regulators incorporate a dielectric insulation. This regulator is an all in one solution and there is no need to buy separate dielectric unions. The Guardian reduces installation costs and time as well as potential leak points.

Technical Specifications

Type 998LP: L 7.055 x W 5.657 x H 4.964" - Weight: 57.50 oz

Type 998TP: L 7.055 x W 5.657 x H 4.964" - Weight: 57.50 oz

For Type LP see page 11.

For Type TP see page 13.

In accordance with NFPA 58

§ 6.9.3.16 Underground metallic piping, tubing, or both which convey LPG from a gas storage container shall be provided with dielectric fittings at the building to electrically isolate it from the aboveground portion of the fixed piping system that enters a building. Such dielectric fitting shall be installed above ground and outdoors.

KOSAN+ GUARDIAN CONFIGURATIONS

| Part # | Capacities in BTU/hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | Outlet pressure range, inches W.C. (Mbar) | Outlet pressure setting, inches W.C. (Mbar) | List Price |
|--------|--|-----------------------------|------------------------------|---|---|------------|
| 200030 | 800,000 (9.01) | 1/2" NPT | 1/2" NPT | 9 to 13 (22 to 32) | 11 (27) | 140.76 |
| 200031 | | | | | | 165.18 |
| 200032 | 1,000,000 (11.26) | | 3/4" NPT | | | 165.18 |
| 200033 | 1,400,000 (15.76) | | | | | 156.90 |
| 200034 | | 3/4" NPT | 156.90 | | | |
| 200035 | 3/4" NPT LAT | | 156.90 | | | |
| 200036 | 920,000 (10.36) | 1/2" NPT | 3/4" NPT 90° | | | 170.04 |
| 200037 | 1,000,000 (11.26) | 3/4" NPT | | | | 165.18 |
| 200038 | | 165.18 | | | | |
| 200039 | | 165.18 | | | | |
| 200040 | 700,000 (7.88) | 1/2" NPT | 1/2" NPT | Non-adjustable | 2 PSIG (0.14 bar) | 153.84 |
| 200041 | 1,680,000 (18.91) | 3/4" NPT | 3/4" NPT | 1 to 2.2 PSIG (0.069 to 0.15 bar) | | 182.46 |
| 200042 | 1,500,000 (16.88) | | 3/4" NPT 90° | | | 182.46 |
| 200043 | 1,460,000 (16.43) | 1/2" NPT | 1/2" NPT | | | 182.46 |

¹ Vent-hole in line with the outlet fitting.

2-PSIG REGULATORS**LP GAS***Type 988TP***Product description**

Type 988 TP regulators are designed for C Type of installations.

They are to be used outdoors in correct mounting position with vent-hole turned downwards.

In the standard version Type 988 TP regulators are delivered with the vent-hole turned in line with the outlet fitting. There is a special configuration of inlet and outlet fittings for the Type 998 TP model:

- Back Mount 998 LP-07 (fig. A).



Weight: 57.875 oz

Type 998TP**Technical Specifications**

Body And Cover: Aluminium

Diaphragm: Reinforced

Supplying Pressure: 5-15 PSIG

Cover Screws: Stainless Steel

Inlet Fitting Screws: Stainless Steel

Gas Type: Propane

Setting Point: Inlet Pressure 10 PSIG, 140,000 BTU, Outlet Pressure: 2 PSIG

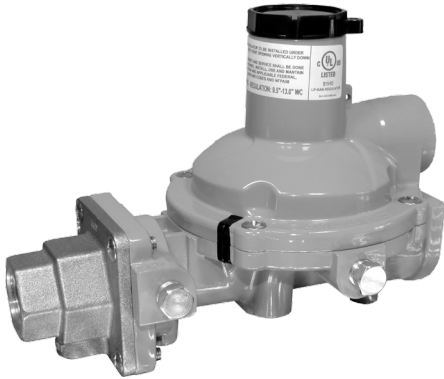
Provided Flows: Flow Based On 10 PSIG (0.69 Bar) Inlet Pressure with a 20% Drop (In accordance With UL144)

Type 988TP: L 6.692 x W 4.33 x H 4.94" - Weight: 41.625 oz

Type 998TP: L 7.055 x W 5.657 x H 4.964" - Weight: 57.5 oz

988TP & 998TP CONFIGURATIONS

| Part # | Capacities in BTU/hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | Outlet adjustment range, PSIG (bar) | Outlet pressure setting, PSIG (bar) | List Price |
|--------|-------------------------------------|--------------------------|---------------------------|-------------------------------------|-------------------------------------|------------|
| 200050 | 700,000 (7.88) | 1/2" NPT | 1/2" NPT | 1 to 2.2 (0.069 to 0.15) | 2 (0.14) | 131.22 |
| 200052 | 1,680,000 (18.91) | 3/4" NPT | 3/4" NPT | | | 159.96 |
| 200053 | 1,500,000 (16.88) | | 3/4" NPT 90° | | | 159.96 |
| 200054 | 1,460,000 (16.43) | 1/2" NPT | 1/2" NPT | | | 159.96 |

Type 988TW*Type 998TW***Product description**

The twin stage regulator is a regulator consisting of two regulation levels, which regulate the inlet pressure coming from the withdrawal cylinder or tank directly to the inlet pressure of the user appliance.

Type 988 TW regulators are designed for Type B installations. They are to be used outdoors in correct mounting position with vent-hole turned downwards. In the standard version, Type 988 TW regulators are delivered with vent-hole turned in line with to the outlet fitting.

Technical Specifications

Body And Cover: Aluminium

Diaphragm: Reinforced

Supplying Pressure: 25-250 PSIG

Cover Screws: Stainless Steel

Inlet Fitting Screws: Stainless Steel

Gas Type: Propane

Setting Point: Inlet Pressure 10 PSIG, 140,000 BTU, Outlet Pressure: 11 Inch WC

Provided Flows: Flow Based On 10 PSIG (0.69 Bar) Inlet Pressure with a 20% Drop (In accordance With UL144)

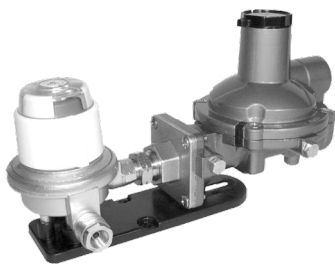
Type 988TW: L 6.692 x W 4.33 x H 4.94" - Weight: 39.75 oz.

Type 998TW: L 7.055 x W 5.657 x H 4.964" - Weight: 54.875 oz.

988TW & 998TW CONFIGURATIONS

| Part # | Capacities in BTU/hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | Outlet adjustment range, inches W.C. (mbar) | Outlet pressure setting, inches W.C. (mbar) | List Price |
|--------|-------------------------------------|--------------------------|---------------------------|---|---|------------|
| 200060 | 750,000 (8.44) | 1/4" NPT | 1/2" NPT | 9 to 13 (22 to 32) | 11 (27) | 132.60 |
| 200061 | | | | | | 132.60 |
| 200063 | 1,400,000 (15.76) | | 3/4" NPT | | | 210.18 |
| 200064 | | | | | | 210.18 |
| 200065 | 750,000 (8.44) | POL | | | | 152.22 |
| 200066 | | | 1/2" NPT | | | 145.26 |
| 200067 | | | 145.26 | | | |
| 200069 | 1,400,000 (15.76) | | 3/4" NPT | | | 210.18 |
| 200070 | | 210.18 | | | | |
| 200071 | 450,000 (5.07) | 1/4" NPT | 3/4" NPT | 1 to 2.2 PSIG (0.069 to 0.15 bar) | 2 PSIG (0.14 bar) | 152.22 |
| 200072 | 1,460,000 (16.43) | 1/4" NPT | 3/4" NPT | 1 to 2.2 PSIG (0.069 to 0.15 bar) | 2 PSIG (0.14 bar) | 210.18 |

¹ First and Second-Stage spring case vents opposite gauge taps.

AUTOMATIC CHANGEOVERS**LP GAS*****Type 524AC*****Technical Specifications****Body And Cover Of The Automatic Changeover:** Zamak**Diaphragm:** Reinforced**Supplying Pressure:** 25-250 PSIG**Cover Screws:** Stainless Steel**Fittings:** Brass**Gas:** Propane Gas**Setting Point:** Inlet Pressure 100 PSIG, 140,000 BTU, Outlet Pressure: 11 WC**Provided Flows:** Flow Based On 25 PSIG (1.725 Bar) Inlet Pressure And 20% Drop (In accordance With UL144)**Type 524AC:** L 9.921 x W 4.212 x H 5.275"**Product description**

The double stage automatic changeover regulator Type 524 AC is a consisting of an automatic changeover working as a 1st stage coupled to a 2nd stage regulator. The 1st stage automatic changeover works as per the description found on the next page titled "functioning of the automatic changeover", which is connected to the 2nd stage regulator: Type 988 LP. Since the regulator body is made of zinc alloy, it is necessary to use the proper plastic mounting bracket for this type of regulator.

524AC CONFIGURATION

| Part # | Capacities in BTU\hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | Vent size, inches | List Price |
|--------|-------------------------------------|--------------------------|---------------------------|-------------------|------------|
| 213400 | 600,000 (6.75) | 1/4 Inverted Flare | 1/2 NPT | 3/4 NPT | 478.50 |

Type 528B**Technical Specifications****Body And Cover Of The Automatic Changeover:** Zamak**Diaphragm:** Reinforced**Supplying Pressure:** 25-250 PSIG**Fittings:** Brass**Gas:** Propane Gas**Setting Point:** Inlet Pressure 100 PSIG, 140,000 BTU, Outlet Pressure: 11 WC**Provided Flows:** Flow Based On 25 PSIG (1.725 Bar) Inlet Pressure And 20% Drop (In accordance With UL144)**Type 528B:** L 7.677 x W 4.212 x H 4.094"**528B CONFIGURATION**

| Part # | Capacities in BTU\hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | Vent size, inches | List Price |
|--------|-------------------------------------|--------------------------|---------------------------|-------------------|------------|
| 200240 | 450,000 (5.07) | 1/4 Inverted Flare | 1/2"NPT | 3/8"NPT | 223.20 |

Type 924N**Technical Specifications****Body And Cover Of The Automatic Changeover:** Zamak**Supplying Pressure:** 25-250 PSIG**Fittings:** Brass**Gas:** Propane Gas**Setting Point:** Inlet Pressure 100 PSIG, 70,000 BTU, Outlet Pressure: 11 WC**Provided Flows:** Flow Based On 25 PSIG (1.725 Bar) Inlet Pressure And 20% Drop (In accordance With UL144)**Type 924N:** L 5.314 x W 3.11 x H 3.897"**924N CONFIGURATION**

| Part # | Capacities in BTU\hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | List Price |
|--------|-------------------------------------|--------------------------|---------------------------|------------|
| 200250 | 2200,000 (2.47) | 1/4 Inverted Flare | 3/8"NPT | 116.40 |

FUNCTIONING AND READING OF THE AUTOMATIC CHANGEOVER

The automatic changeover ensures continuous gas flow, automatically changing the gas withdrawal from the empty “service” cylinder to the full “reserve” one. The full-empty indicator incorporated into the bonnet of the automatic changeover indicates the exhaustion status of the “service” cylinder. The indicator color changes from green to red, when the “service” cylinder is exhausted. The rotation of the automatic changeover handle to the full “reserve” cylinder restores the green color on the indicator.

Start up

- Turn two cylinders’ gas valves on at the same time. This is fundamental and ensures the automatic changeover the ability to continuously supply the gas appliance in case the service cylinder becomes empty. The automatic changeover cannot turn to the reserve gas bottle if its valve is closed.

Reading the automatic changeover’s indicator: when the service gas bottle is full

- When the two gas cylinders are full, the automatic changeover’s indicator turns to green while opening gas valves A and B.
- The arrow on the automatic changeover’s knob indicates which one of the two gas cylinders is supplying gas: that is to say the “service gas bottle”.

The other cylinder is the “reserve gas bottle”.

Figure 1

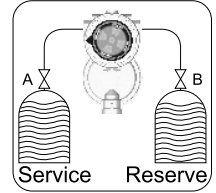
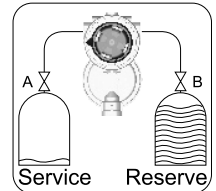


Figure 2



Reading the automatic changeover’s indicator: when the service gas bottle is empty

- When the service bottle is getting exhausted and reaches pressure values of inversion (lower than 10 PSIG), the automatic changeover turns automatically to the “reserve gas bottle” and the gas appliance continues working.

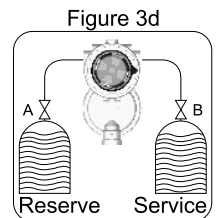
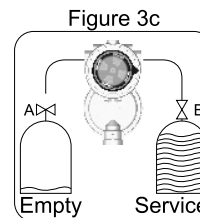
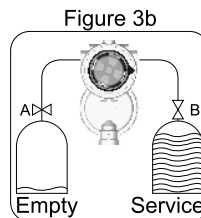
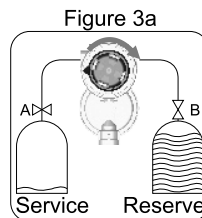
In this case the automatic changeover’s indicator turns to red: the end user gets to know that the “service gas bottle” is empty: it is not supplying gas any more.

Substituting the empty gas bottle

- Close the valve of the service gas bottle A and turn the automatic changeover’s knob 180° (see figure 3 a).

If the reserve gas bottle is full and its valve is open, the automatic changeover’s indicator turns to green (figure 3 b).

- Remove the empty gas bottle (figure 3c).
- Position a new full gas bottle. Open the gas valve A (figure 3d).



POL DOUBLE STAGE REGULATOR

Type 524AS



Technical Specifications

ASME Double Stage Regulator

Body And Cover Material: Zamak

Diaphragm: Reinforced

Supplying Pressure: 25-250 PSIG

Fittings: Brass

Gas: Propane

Setting Point: Inlet Pressure 100 PSIG, 70,000 BTU,

Outlet Pressure: 11 WC

Provided Flows: Flow Based On 25 PSIG (1.725 Bar) Inlet Pressure And 20% Drop (In accordance With UL144)

Type 524AS: L 6.389 x W 2.696 x H 2.488”

524AS CONFIGURATION

| Part # | Capacities in BTU\hr (SCMH) propane | Inlet connection, inches | Outlet connection, inches | List Price |
|--------|-------------------------------------|--------------------------|---------------------------|------------|
| 200252 | 160,000 (1.80) | .880 P.O.L. | 3/8” NPT | 62.10 |

TYPE 49HP

**200181****200211****Technical Specifications**

Body And Cover: Aluminium

Diaphragm: Reinforced

Supplying Pressure: 25-250 PSIG

Cover Screws: Stainless Steel

Gas Type: Propane

Setting Point: Inlet Pressure 100 PSIG, 200,000 BTU, Outlet Pressure 20 PSIG

Provided Flows: Flow based on Inlet Pressure 20 PSIG (1.38 Bar) greater than Outlet with 20% drop
(In accordance With UL144)

Inlet & Outlet: 1/4" FNPT

Type 49HP: L 2.56 x W 2.89 x H 4.88

Product description

The 49 series direct operated regulators are designed for high pressure service and can be used on either vapor or liquid applications. Their outlet pressure ranges from 3 to 135 PSIG.

High pressure regulators usually reduce tank pressure to an intermediate pressure for use by another regulator.

NOTE: Type 49 regulators do not have internal relief valves, so these regulators can not be installed in fixed piping serving 0.5 appliance systems.

Type 492HP regulator is an adjustable high pressure regulator with handwheel adjustment.

Type 495HP regulator is an adjustable high pressure regulator with a dial cap adjustment. This cap eliminates the need for a gauge on portable applications. All types are equipped with a 1/4" FNPT side outlet which is normally plugged and provides an opening for an outlet pressure gauge.

49HP Configuration

| Part # | Description | Capacity BTU\hr | Outlet pressure setting | Outlet adjustment range | List Price |
|--------|---------------------|-----------------|-------------------------|-------------------------|------------|
| 200181 | Basic Regulator | 750,000 | 20 PSIG | 3-35 PSIG | 119.58 |
| 200182 | | 1,200,000 | 40 PSIG | 30-60 PSIG | 119.58 |
| 200183 | | 1,000,000 | 50 PSIG | 50-135 PSIG | 119.58 |
| 200211 | Dial Cap Adjustment | 750,000 | 20 PSIG | 5-30 PSIG | 185.94 |
| 200212 | | 1,200,000 | 40 PSIG | 20-50 PSIG | 167.28 |

Type 756 HP - Fixed**Technical Specifications**

The single stage regulator has to be installed in compliance with state or federal laws and with NFPA58. It is designed to supply gas appliances functioning at pressure equal to or higher than 0.5 PSI. This regulator will be consequently connected to gas appliances through high pressure flexible hoses, see Accessories paragraph. Depending on the versions the outlet fitting may be at 90° or 180° in comparison with inlet fitting.

Technical Specifications

Body: Zinc die casting EN1773

Outlet: 1/4" FNPT at 90° or 80°, single barb at 90°

Inlet: 1/4" FNPT

Outlet pressure: 9 or 10 or 15 or 16 PSI

Setting point: 11 WC+/-1 WC; 35000 BTU/h

Inlet pressure: 25-250 PSI

Temperature of functioning: -4 °F/122°F (-20 °C/ 50 °C)

*Type 755 HP - Adjustable***Technical Specifications**

The regulator HP 755 Type is especially designed for gas appliances such as turkey fryers, fish fryers, camping stoves and torches, i.e. appliances that need variable pressure in terms of PSI. The regulation of the flow rate is allowed by rotating the regulation hand-wheel on the regulator that turns from position 0 to 10. Position "O" means TURNED OFF (no gas is flowing). For safety reasons position "O" is locked. Gas begins to flow by pressing the hand-wheel red button and turning clockwise the hand-wheel at the same time. Calorific power is shown by the casted digits on the regulator cover.

Technical Specifications

Body: Zinc die casting EN1773

Outlet: 1/4" FNPT or single barb at 90°

Inlet: 1/4" FNPT

Outlet pressure: 0-10 PSI

Inlet pressure: 25-250 PSI

Temperature of functioning: -4 °F/122°F (-20 °C/ 50 °C)

49HP Configuration

| Part # | Description | Capacity BTU\hr @ 100 PSIG Inlet | Outlet pressure setting | Outlet adjustment range | List Price |
|--------|-------------|-------------------------------------|----------------------------|----------------------------|------------|
| 200371 | Adjustable | 320,000 | - | 0-15 PSIG | 34.50 |
| 200372 | Fixed | 460,000 | 10 PSIG | - | 34.50 |

TYPE 1 ACME NUT PIGTAIL**LP GAS***Type 1 ACME Nut Pigtail***Product Description**

Pigtails are used with Double Stage Automatic Changeover Regulators for two cylinder systems or Standard Two Stage Regulators with "T" check connections

Safety features:

- Excess flow device: Limits gas flow in the event of hose rupture or accidental disconnection
- Thermofuse: A heat sensitive plug, which shuts off gas flow if temperature reaches above 240° F



Available in Bulk and Hang Tagged:

TYPE 1 ACME NUT PIGTAIL X 1/4" INVERTED FLARE

| Part # | Description | Carton Count | List Price |
|--------|--|--------------|------------|
| 210001 | 12" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | 12 | 29.94 |
| 210002 | 15" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 28.20 |
| 210003 | 15" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 30.36 |
| 210005 | 18" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 31.32 |
| 210006 | 20" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 30.78 |
| 210007 | 20" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 31.74 |
| 210008 | 24" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 30.54 |
| 210009 | 24" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 32.94 |
| 210010 | 30" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 32.28 |
| 210011 | 30" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 34.92 |
| 210012 | 36" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 33.84 |
| 210013 | 36" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 36.48 |
| 210014 | 40" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 34.80 |
| 210015 | 40" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 37.08 |
| 210016 | 48" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 36.96 |
| 210017 | 48" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 39.60 |
| 210018 | 60" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Bulk) | | 40.14 |
| 210019 | 60" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" inverted flare (Hang Tagged) | | 42.66 |

TYPE 1 ACME NUT PIGTAIL X 1/4" MPT

| Part # | Description | Carton Count | List Price |
|--------|---|--------------|------------|
| 210030 | 15" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" MPT (Bulk) | 12 | 29.58 |
| 210031 | 15" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" MPT (Hang Tagged) | | 32.34 |
| 210032 | 20" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" MPT (Bulk) | | 32.40 |
| 210033 | 20" Pigtail -1/4" I.D. hose, Type 1 ACME nut x 1/4" MPT (Hang Tagged) | | 33.66 |

LPG High Pressure Hoses**Product Description**

Thermoplastic high pressure hose assemblies, working pressure of 350 psi with 1,700 psi burst rating



Available in Bulk and Hang Tagged:

1/4" I.D. HIGH PRESSURE HOSE 3/8" MPT X 3/8" FEMALE FLARE SWIVEL NUT

| Part # | Description | Carton Count | List Price |
|--------|--|--------------|------------|
| 211000 | 24" LP Gas High Pressure Hose -1/4" I.D., 3/8" MPT x 3/8" Female Flare swivel (Bulk) | 12 | 22.02 |
| 211001 | 24" LP Gas High Pressure Hose -1/4" I.D., 3/8" MPT x 3/8" Female Flare swivel (Hang Tagged) | | 26.76 |
| 211002 | 24" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Bulk) | | 22.68 |
| 211003 | 24" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Hang Tagged) | | 24.84 |
| 211004 | 36" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Bulk) | | 25.80 |
| 211005 | 36" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Hang Tagged) | | 28.02 |
| 211006 | 48" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Bulk) | | 28.92 |
| 211007 | 48" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Hang Tagged) | | 31.14 |
| 211008 | 72" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Bulk) | | 35.34 |
| 211009 | 72" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Hang Tagged) | | 39.12 |
| 211010 | 144" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Bulk) | | 54.36 |
| 211011 | 144" LP Gas High Pressure Hose -1/4" I.D., 3/8" FPT x 3/8" Female Flare swivel (Hang Tagged) | | 56.52 |


3/8" I.D. HIGH PRESSURE HOSE 3/8" MPT X 3/8" FEMALE FLARE SWIVEL NUT

| Part # | Description | Carton Count | List Price |
|--------|--|--------------|------------|
| 211030 | 24" LP Gas High Pressure Hose - 3/8" I.D., 3/8" MPT x 3/8" Female Flare swivel (Bulk) | 12 | 28.26 |
| 211031 | 24" LP Gas High Pressure Hose - 3/8" I.D., 3/8" MPT x 3/8" Female Flare swivel (Hang Tagged) | | 30.66 |
| 211032 | 30" LP Gas High Pressure Hose - 3/8" I.D., 3/8" MPT x 3/8" Female Flare swivel (Bulk) | | 30.78 |
| 211033 | 30" LP Gas High Pressure Hose - 3/8" I.D., 3/8" MPT x 3/8" Female Flare swivel (Hang Tagged) | | 32.70 |
| 211034 | 36" LP Gas High Pressure Hose - 3/8" I.D., 3/8" MPT x 1/2" Female Flare swivel (Bulk) | | 35.52 |
| 211035 | 36" LP Gas High Pressure Hose - 3/8" I.D., 3/8" MPT x 1/2" Female Flare swivel (Hang Tagged) | | 37.68 |

**Product Description**

Pigtails are available in a variety of connections, sizes and style. Select the proper pigtail for a particular application.

Note: We recommend to install a new pigtail with every new and replaced regulator.

|  Connections | Approximate Length | Part Number | | List Price |
|---|--------------------|-----------------------|------------------------|------------|
| | | Part 1/4" tube | | |
| | | 7/8" Hex Short Nipple | 1 1/8" Hex Long Nipple | |
| 1/4" Inv. flare + M.POL | 20" | 213000 | - | 12.48 |
| | 36" | 213001 | - | 17.04 |
| 1/4" NPT + M.POL | 12" | 213002 | - | 10.02 |
| | 20" | 213003 | - | 13.68 |
| M.POL + M.POL | 12" | 213004 | - | 10.14 |
| | 20" | 213005 | - | 13.74 |
| | 48" | 213006 | - | 23.64 |
| | | - | 213008 | 48.72 |

MULTI-SERVICE VALVE

LP GAS



MULTI-SERVICE VALVE



Features

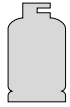
- Multi-service valve with double back check filler valve
- Ideal for on site filling of DOT cylinders up to 200 lb LPG capacity without interrupting service
- Includes a service valve, back check filler valve, fixed maximum liquid level gauge (specify DT length when ordering)
- New high discharge flow 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
- Vapor service connection; POL (CGAS10)
- Filler connection; 1-3/4" ACME
- Fixed liquid level gauge not captive

Application

These multi-service valves are suitable for 100-200 lb DOT containers.

Ordering Information

| Part # | Tank Connection | OPD | DT Length | Propane liquid capacity at various differential pressure (GPM) | | | | Pressure Relief Valve Flow Capacity (SCFM) Air | | | List Price |
|--------|-----------------|-----|-----------|--|---------|---------|----------|--|------|------|------------|
| | | | | 10 PSIG | 20 PSIG | 50 PSIG | 100 PSIG | PRV Setting | UL | ASME | |
| 212100 | 3/4" M NPT | - | 10.6" | 9 | 15 | 23 | 35 | 375 | 1123 | n/a | 162.00 |
| 212102 | 3/4" M NPT | - | 11.6" | 9 | 15 | 23 | 35 | 375 | 1123 | n/a | 162.00 |
| 212103 | 3/4" M NPT | - | 8.2" | 9 | 15 | 23 | 35 | 375 | 1123 | n/a | 162.00 |
| 212104 | 3/4" M NPT | - | 10.2" | 9 | 15 | 23 | 35 | 375 | 1123 | n/a | 162.00 |
| 212105 | 3/4" M NPT | - | 8.6" | 9 | 15 | 23 | 35 | 375 | 1123 | n/a | 162.00 |

**420 MULTIVALVE****Application**

This multi-service valve is designed for use with 420 lb DOT containers.

Features

- Multi purpose valve with double back check filler valve
- Includes service valve, filler valve, fixed maximum liquid level gauge
- Reduced filler valve chamber minimizes LPG waste during filling operation
- Increased high filling capacity
- Double O-Ring replaceable stem

Application

This multi-service valve is designed for use with 420 lb DOT containers.

Features

- Multi purpose valve with double back check filler valve
- Includes service valve, filler valve, fixed maximum liquid level gauge
- Reduced filler valve chamber minimizes LPG waste during filling operation
- Increased high filling capacity
- Double O-Ring replaceable stem

Ordering Information

| Part # | Tank Connection | Vapor Service Connection | Filler Connection | Fixed Liquid Level Gauge | DT Length | Pressure Relief Valve Flow Capacity (SCFM) Air | PRV Setting (PSIG) | List Price |
|--------|-----------------|--------------------------|-------------------|--------------------------|-----------|--|--------------------|------------|
| 212110 | 1" NPT | POL (CGA 510) | 1-3/4" ACME | not captive | 11.6" | 1986 | 375 | 330.78 |

UNDERGROUND MULTI-SERVICE VALVE
LP GAS



UNDERGROUND MULTI-SERVICE VALVE



212120

212121

Multi-Service Valve for ASME underground propane tank and Liquid Withdrawal Valve for liquid evacuation Kit



212120



200509

This multi-service valve is designed for use in a single opening ASME container with a riser of 2-1/2" M NPT. A separate opening is required for a liquid withdrawal valve.

Features

The solid brass multi-service valve incorporates:

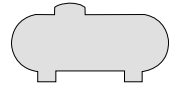
- double back check filler valve
- vapor equalizing valve with excess flow
- pressure relief valve with protective cap
- service valve with Cavagna quality handwheel system
- plugged 1/4" F.NPT gauge boss
- fixed liquid level gauge with 36" DT
- "Junior" size float gauge flange opening. Specify float 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

Ordering Information

| Part # | Tank Connection | Vapor Service Connection | Filler Connection | Fixed Liquid Level Gauge | DT Lgth | Propane liquid capacity at various differential pressure (GPM) | | | | Pressure Relief Valve Flow Capacity (SCFM) Air | | | List Price |
|--------|-----------------|--------------------------|-------------------|--------------------------|---------|--|---------|---------|---------|--|------|------|------------|
| | | | | | | 10 PSIG | 25 PSIG | 50 PSIG | 75 PSIG | PRV Setting | UL | ASME | |
| 212120 | 2-1/2" M NPT | POL (CGA510) | 1-3/4" ACME | captive | 36" | 58 | 98 | 146 | 186 | 250 | 1918 | 1808 | 870.00 |
| 212121 | 212120 | 2-1/2" M NPT | POL (CGA510) | 1-3/4" ACME | captive | 58 | 98 | 146 | 186 | 250 | 1918 | 1808 | 870.00 |
| 212121 | 200509 | Container Connection | | Outlet Connection | | U.L. Closing Flow (Propane) | | | | Wrench Hex Flat | | | 78.00 |
| | | 3/4" M NPT | | 1-5/8" UN | | 20 GPM | | | | 1-3/4" | | | 978.00 |



UNDERGROUND MULTI-SERVICE VALVE

**212130**

This multi-service valve is designed for use in a single opening ASME container with a riser of 2-1/2" M NPT. A separate opening is NOT required for a liquid withdrawal valve.

Features

- Integrated liquid withdrawal valve in the body of the multi-service valve provides easy access
- Integrated service valve in the body of the multi-service valve
- New, compact design. More function in less space!
- 100% brass construction
- Replacement components available (see table below)

The solid brass multi-service valve incorporates:

- double back check filler valve
- vapor equalizing valve with excess flow
- pressure relief valve with protective cap
- service valve with Cavagna quality handwheel system
- integrated fixed liquid level gauge with 36" DT

Ordering Information

| Part # | Tank Connection | Vapor Service Connection | Filler Connection | Internal Threads | | Fixed Liquid Level Gauge | DT Length | Propane liquid capacity at various differential pressure (GPM) PSIG | | | | Pressure Relief Valve Flow Capacity (SCFM) Air | | | List Price |
|--------|-----------------|--------------------------|-------------------|----------------------|----------------------------|--------------------------|-----------|---|----|-----|-----|--|------|------|------------|
| | | | | | | | | 10 | 25 | 50 | 75 | PRV Setting | UL | ASME | |
| 212130 | 2-1/2" M NPT | POL (CGA 510) | 1-3/4" ACME | 3/4" NPT L.H. Filler | 3/4" NPT Liquid Withdrawal | captive | 36" | 58 | 98 | 146 | 186 | 250 | 1918 | 1808 | 990.00 |

Spare Parts for Multi-Valve

| Part # | | List Price |
|--------|------------------------------|------------|
| 212131 | Filler Valve Repair Kit | 74.88 |
| 212132 | Vapor Return Valve | 55.74 |
| 212133 | Liquid Withdrawal Valve | 119.28 |
| 212134 | Safety Pressure Relief Valve | 155.04 |

MULTI-SERVICE & FILLER VALVES

LP GAS



MULTI-SERVICE VALVE

**212140**

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

Features

Improved Stem Seal - Two seals - a back seat and an O-ring 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.

Redesigned Body Configuration - Installation of the 212140 can be performed 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" F.NPT gauge connection can be plugged or left unplugged for installation of a pressure gauge.

Fixed level gauge - Please specify DT length when ordering.

Sealant - Pre-applied on the inlet thread.

Various DT lengths upon request.

Ordering Information

| Part # | Tank Connection | Vapor Service Connection | Vapor Line Connection | Gauge Boss | Fixed Liquid Level Gauge | Fixed Level Gauge DT Length | Wrench Hex Flat | List Price |
|--------|-----------------|--------------------------|-----------------------|------------|--------------------------|-----------------------------|-----------------|------------|
| 212140 | 3/4" M NPT | Female POL CGA 510 | 1-1/4" M.ACME | 1/4" F.NPT | Yes | Customizable Upon Request | 1" | 156.00 |

FILLER VALVES

Pre-applied sealant on the inlet thread.

**212141**

3/4" M NPT
Forklift Filler Valve
Soft seal

212142

1-1/4" M NPT
Filler Valve
Metal to metal seal



Ordering Information

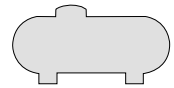
| Part # | Container Connection | Line Connection | Wrench Hex Flat | Propane liquid capacity at various differential pressure (GPM) PSIG | | | | | | | List Price |
|--------|----------------------|-----------------|-----------------|---|----|----|----|----|-----|-----|------------|
| | | | | 10 | 20 | 25 | 30 | 40 | 50 | 75 | |
| 212141 | 3/4" M NPT | 1-3/4" M.ACME | 1-3/4" | 17 | 23 | - | 28 | 33 | 37 | - | 51.60 |
| 212142 | 1-1/4" M NPT | 1-3/4" M.ACME | 1-3/4" | 58 | - | 98 | - | - | 146 | 186 | 78.00 |



3/4" M NPT Forklift EN 12806

Snapfill Euro-style filler valve for use on motor fuel cylinders.
Faster fill times and reduces injuries from repetitive twisting motion.
Pre-applied sealant on the inlet thread.

ACME to EURO Filling Head Adapter available upon request.



212145

Ordering Information

| Part # | Container Connection | Line Connection | Wrench Hex Flat | List Price |
|--------|----------------------|------------------------------|-----------------|------------|
| 212145 | 3/4" M NPT | 1 3/4" - ACME Ø30-EN12806 | 1-3/4" | 57.60 |

FILLER VALVES FOR DISPENSERS



212148



212149

Features

- Double back-check filler valve with integral emergency shut-off ball valve: ALL-IN-ONE SOLUTION.
- Both valves are double back check filler valves that have:
 - (1) a soft seated upper back check, and (2) a metal-to-metal lower back check seat.
- Eliminates the need for installing expensive and un-reliable filler hose adapters as a temporary fix to a failed or leaky filler valve.
- Permits safe filler valve maintenance without tank evacuation.
- These two versions can be used either for underground or above ground

Ordering Information

| Part # | Tank Connection | Filler Connection | Wrench Hex Flat | Propane liquid capacity at various differential pressure (GPM) PSIG | | | | | | | List Price |
|--------|-----------------|-------------------|-----------------|---|----|----|----|----|-----|-----|------------|
| | | | | 10 | 20 | 25 | 30 | 40 | 50 | 75 | |
| 212148 | 1-1/4" NPT | 1-3/4" 6 ACME | 1-13/16" | 54 | - | 98 | - | - | 146 | 186 | 250.50 |
| 212149 | 1-1/4" NPT | 1-3/4" 6 ACME | 1-13/16" | 54 | - | 98 | - | - | 146 | 186 | 235.80 |

VAPOR EQUALIZATION VALVE



212150

Upper back check valve and lower excess flow valve combined.
Pre-applied sealant on the inlet thread.

Ordering Information

| Part # | Tank Connection | Filler Connection | Wrench Hex Flat | List Price |
|--------|-----------------|-------------------|-----------------|------------|
| 212150 | 3/4" M NPT | 1-1/4" 5 ACME | 1-1/4" | 81.00 |

FILLER VALVES W/OPD

LP GAS



212154

Filler valve for vertical ASME and DOT containers. Specify tank diameter when ordering. Suitable for a 300 liter horizontal tank or 119VG tank. They can be fitted to other tank sizes upon request.



212155

Filler valve with OPD for Automotive Application.



212156

Remote Filler valve with OPD for Automotive Application.



Application

These valves incorporate a standard 1-1/4" flat wrenching hex allowing easy installation from the top with a socket wrench.

***When ordering it is necessary to specify tank dimension, mount angle and diameter to determine correct part number.**

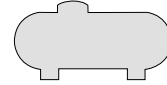
Ordering Information

| Part # | Tank Connection | Filler Connection | Wrench Hex Flat | Dimension | List Price |
|--------|-----------------|-------------------|-----------------|-----------|------------|
| 212154 | 3/4" NPT | 1-3/4" ACME | 1-3/4" | * | 151.68 |
| 212155 | 3/4" NPT | 1-3/4" ACME | 1-3/4" | * | 186.00 |
| 212156 | 3/4" NPT | 1/2" SAE | 1-1/16" | * | 192.00 |

* Specify Tank Dimension when ordering

ALSO AVAILABLE: YELLOW BRASS FITTINGS • COPPER AND ALUMINUM TUBING • BRASS VALVES • MALLEABLE FITTINGS • STEEL NIPPLES • QUICK DISCONNECTS • FORGED FITTINGS • GAUGES • SWAGES AND BULLPLUGS

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 gallon water capacity. Furnished with a rain cap for protection against contamination. See ordering information for part numbers. These valves have a pre-applied sealant on the container connection. These valves are ASME approved.



212171 212172 212173 212175 212176



| Cap Part # | for Valve | Cap List Price |
|------------|-----------|----------------|
| 200400 | 212171 | 6.36 |
| 200401 | 212172 | 16.56 |
| 200402 | 212173 | 8.64 |
| 200403 | 212175 | 8.22 |

Rain Caps for Internal Pressure Relief Valves

Ordering Information

| Part # | Container Connection | Start to Discharge Setting PSIG | UL (at 120% of set pressure) Flow capacity SCFM/AIR | ASME (at 120% of set pressure) Flow capacity SCFM/AIR | Wrench Hex Flat | List Price |
|--------|----------------------|---------------------------------|---|---|-----------------|------------|
| 212170 | 1" NPT | 375 | 1491 | n/a | 1-5/16" | 82.98 |
| 212171 | 3/4" NPT | 250 | 2007 | 1807 | 1-9/16" | 75.60 |
| 212172 | 1" NPT | 250 | 2757 | 2493 | 1-3/4" | 100.80 |
| 212173 | 1-1/4" NPT | 250 | 4312 | 3913 | 2-1/4" | 144.90 |
| 212175 | 1" NPT | 250 | 864 | 786 | 1-5/16" | 82.98 |
| 212176 | 3/4"-NPT | 312 | 690 | 690 | 1-1/16" | 61.50 |

EXTERNAL PRESSURE RELIEF DEVICES



212680

Pressure relief valve for small containers and on-line pipe installations. Setting point: 250 PSIG.



212681

Pressure relief valve for small containers and on-line pipe installations. Setting point: 375 PSIG.



212181

External pressure relief valve ASME containers. Setting point: 250 PSIG.



212177

Hydrostatic Pressure relief valve provides pressure relief at or in excess of the stated pressure setting, protecting against line or plumbing system failures.

Ordering Information - (Thread Type - Taper)

| Part # | Bottom Male Connection | Wrench grip hexagon | Configuration suitable for a tank with a max surface area of: | PRV - Start to Discharge Setting (PSIG) | PRV-OVERPRESSURE 20% CAPACITY SCFM-AIR | Approval | PRV Orifice | List Price |
|--------|------------------------|---------------------|---|---|--|-------------|-------------|------------|
| 212680 | 1/4-18 NPT | 14/16" | - | 250 | 296-262 | UL/ASME | 7/8" | 71.04 |
| 212681 | 1/4-18 NPT | 14/16" | - | 375 | 486 | UL CGA S1.1 | 7/8" | 71.04 |
| 212181 | 3/4-14 NPT | 1 13/16" | 73 sq.ft Aboveground 316 sq.ft Underground | 250 | 1918-1808 | UL/ASME | 1-13/16" | 153.00 |
| 212177 | 1/4-18 NPT | 9/16" | - | 440 | - | UL | 9/16 | 66.18 |

FORKLIFT CONNECTORS

LP GAS



212190

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 valve is a one-piece hot forged brass body.



212191

Designed specifically for use as primary relief valve on fork lift cylinders.

Ordering Information

| Part # | Container Connection | Start to Discharge Setting (PS) | UL (at 120% fo set pressure) Flow capacity SCFM/AIR | Wrench Hex Flat | List Price |
|--------|----------------------|---------------------------------|---|-----------------|------------|
| 212190 | 3/4" NPT | 375 | 400 | 1-1/16" | 70.50 |
| 212191 | 3/4" NPT | 375 | 400 | 1-1/16" | 31.50 |

FORK LIFT CONNECTORS



These brass connectors are designed to join the carburetor fuel line to the service valve.

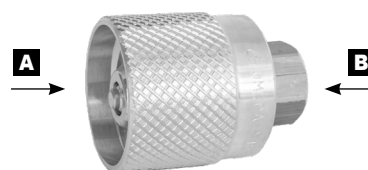


35792

Half coupling ACME. For installation between the LPG engine fuel line and the fork lift service valve.

35810

Female coupling ACME. For installation on the carburetor fuel line.

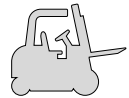


Ordering Information

| Part # | Inlet A | Outlet B | Normal Application | List Price |
|--------|---------------|---------------|--------------------|------------|
| 35792 | 3/8" F.NPT | 1-1/4" M.ACME | Service Valve | 43.98 |
| 35810 | 1-1/4" F.ACME | 1/4" F.NPT | Fuel | 65.34 |



SERVICE VALVES FOR DOT FORK LIFT AND ASME FUEL CONTAINERS



212201



212200



212204



212202

Application

These valves are designed for vapor or liquid withdrawal service on DOT fork lift containers (80-2064) and ASME containers. These valves are equipped with an excess flow limiter with different settings. Because 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 containers capacity (see pressure relief valves).

Features

These valves are supplied with pre-applied sealant on the inlets. The 80.2064 also has pre-applied sealant on the outlet.

Double O-ring Stem Seal - Two O-rings form the stem seal for improved resistance to leakage caused by dirt or extreme temperatures.

Tamperproof Design - A travel stop keeps the handwheel from being removed which helps to prevent tampering.

It also prevents removal of the stem and provides an additional seal against gas leakage.

Sturdy Quality Brass Handwheel - Large, sturdy brass handwheel and stem threads less likely to break, even with rough handling.

Static Seat Disc - In the 73.0001 Valve 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 # | Container Connection | Outlet Connection | Normal Application | Excess Flow Closing | List Price |
|--------|----------------------|---------------------|--------------------|---------------------|------------|
| 212200 | 3/4" M.NGT | 3/8" SAE Flare (70) | ASME Motor Fuel | 3.3 GPM | 51.00 |
| 212201 | | 3/8" SAE Flare (90) | ASME Motor Fuel | 3.3 GPM | 51.00 |
| 212202 | | POL (CGA 510) | ASME Motor Fuel | 1.5 GPM | 57.60 |
| 212204 | | 3/8" 18 NPT | DOT Fork Lift | 2.6 GPM | 50.40 |

FIXED LIQUID LEVEL GAUGES



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



Remote outgauge.
Captive screw.

| Part # | Container Connection | Outlet Connection | DT Length | List Price |
|--------|----------------------|-------------------|-----------|------------|
| 212210 | 1/4" M NPT | - | 12" | 14.70 |
| 212211 | 1/4" M NPT | - | 5.4" | 14.70 |
| 212215 | 1/4" M NPT | - | 5.6" | 14.70 |
| 212217 | 1/4" M NPT | - | Without | 12.84 |
| 212219 | 1/4" NPTF | 1/4" SAE Flare | Without | 22.14 |

LIQUID WITHDRAWAL VALVES

LP GAS



LIQUID WITHDRAWAL VALVES WITH EXCESS FLOW

These valves are designed for liquid withdrawal from stationary containers.

**200509**

This new liquid withdrawal valve is designed for liquid evacuation prior to moving the tank. This valve can also be used on permanent installations equipped with an excess flow limiter. Designed according to the latest UL standard.

Pre-applied sealant

212226

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

**212227**

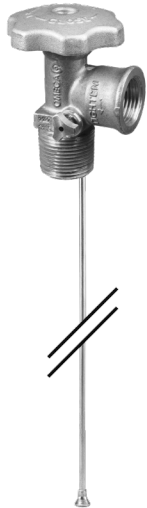
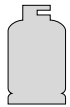
This new liquid withdrawal valve is designed for liquid evacuation prior to moving the tank. This valve can also be used on permanent installations equipped with an excess flow limiter. Designed according to the latest UL standard.

Pre-applied sealant



Ordering Information

| Part # | Container Connection | Outlet Connection | U.L. Closing Flow (Propane) | Wrench Hex Flat | List Price |
|--------|----------------------|-------------------|-----------------------------|-----------------|------------|
| 200509 | 3/4" M NPT | 1-5/8" UN | 20 GPM | 1-3/4" | 78.00 |
| 212226 | 1-5/8" UN | 3/4" NPT | n/a | n/a | 85.50 |
| 212227 | 1-1/4" NPT | 1-5/8" UN | 36 GPM | 1-3/4" | 81.06 |



212230

Designed specially for vapor withdrawal service on ASME and DOT containers. Because this valve has no integral pressure relief valve, it 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 also be used as a service valve on a 420 lb vertical tank or a 300 liter horizontal tank. This valve also incorporates a fixed liquid level gauge. Specify DT length when ordering.



212232

Open-close valve with POL outlet. Designed for vapor withdrawal only.

Features

Double O-ring Stem Seal - Two O-rings from the stem seal for improved resistance to leakage due to dirt or temperature extremes.
Sturdy Quality Brass Handwheel - New large sturdy brass handwheel and stem threads are less likely to break, even with rough handling.

Repairable design based upon request.

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

Ordering Information

| Part # | Tank Connection | Vapor Service Connection | Fixed Liquid Level Gauge | Fixed Level Gauge DT Length | List Price |
|--------|-----------------|--------------------------|--------------------------|-----------------------------|------------|
| 212230 | 3/4" NGT | POL CGA 510 | Not captive | 11.1" | 60.00 |
| 212231 | 3/4" NGT | POL CGA 510 | Not captive | 5.8" | 36.00 |
| 212232 | 3/4" NGT | POL CGA 510 | N/A | N/A | 57.60 |
| 212233 | 3/4" NGT | POL CGA 510 | Not captive | 11.0" | 65.76 |
| 212235 | 3/4" NGT | POL CGA 510 | Not captive | 10.63" | 65.76 |



SERVICE VALVES FOR DOT CYLINDERS

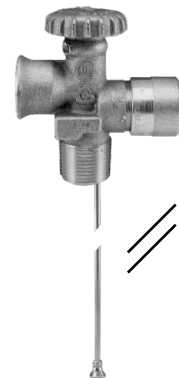


212241

DOT cylinder valve for vapor withdrawal up to 100 lb LPG capacity. Specify dip-tube length when ordering.

212240

Heavy duty POL valve with pressure relief valve for 200 lb propane cylinders. Different DT lengths available.

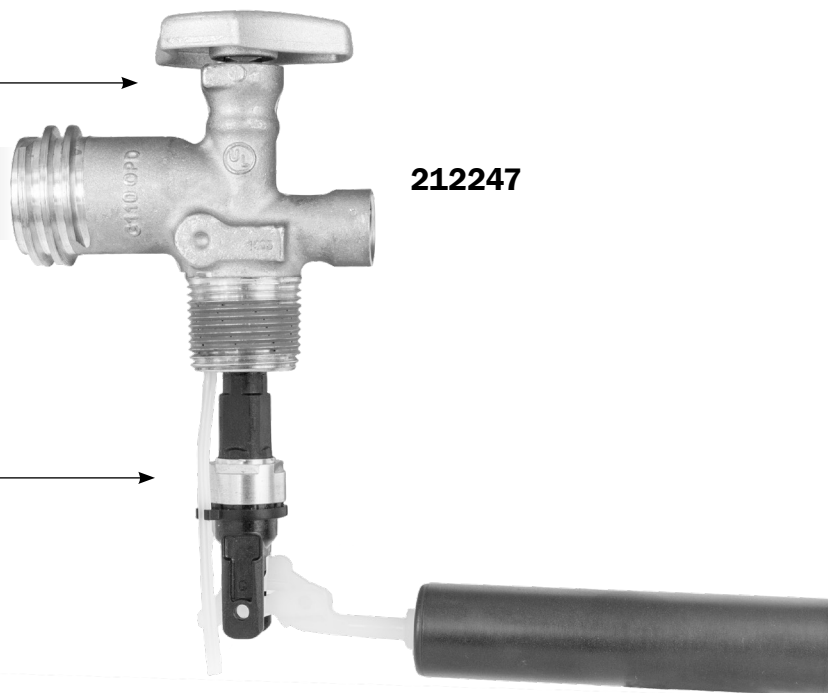


Ordering Information

| Part # | Cylinder Connection | Outlet Connection | Normal Application | Liquid Level Gauge | DT Length | Relief Setting | UL rated discharge flow capacity (SCFM) | List Price |
|--------|---------------------|----------------------|-------------------------------|--------------------|-----------|----------------|---|------------|
| 212240 | 3/4" NGT | Female POL (CGA 510) | DOT cylinder up to 100 lbs | Yes | 10.2" | 375 | 765 | 90.00 |
| 212241 | | | Service valve on DOT cylinder | Yes | 10.6" | | 366 | 61.50 |
| 212242 | | | DOT cylinder up to 100 lbs | No | - | | 366 | 58.74 |

OVERFILL PREVENTION DEVICE (OPD)**LP GAS****TYPE 1 ACME CYLINDER VALVE WITH OVERFILL PREVENTION DEVICE**

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

LPG VALVE TYPE 1**Fast Filling****212247****OVERFILL
PREVENTION
DEVICE****Features**

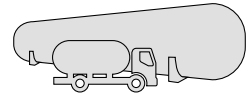
- Rapid purging and filling with over one million BTU withdrawal capacity.
- Tri-lobular one-piece forged aluminum handwheel.
- Double “O-ring” stem seal for improved leak resistance.
- Pre-applied sealant.
- Quality “O-ring” check valve seat, opens only with positive seal.
- Brass safety cage surrounding critical welds provides additional protection to components for long-term operational performance.

Ordering Information

| Part # | Cylinder Capacity | Container Connection | Outlet Connection | Relief Setting | Dip Tube | List Price |
|--------|-------------------|----------------------|---------------------|----------------|----------|------------|
| 212247 | 20 lbs | 3/4" 14 NGT | Type 1 ACME and POL | 375 PSIG | 4.0" | 39.00 |
| 212248 | 30 lbs | 3/4" 14 NGT | Type 1 ACME and POL | 375 PSIG | 4.7" | 51.84 |
| 212249 | 40 lbs | 3/4" 14 NGT | Type 1 ACME and POL | 375 PSIG | 6.4" | 59.40 |



STEEL THREADED INTERNAL VALVES



These valves, designed as primary shut-offs to control product discharge in LPG service, are predominantly used in the liquid and vapor 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 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. 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.



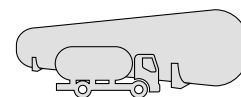
| Part # | | Inlet Connection | Outlet Connection | Closing Flow GPM Propane | | LPG Vapor Capacity (SCFH/Propane) | | Closing Flow GPM Ammonia NH ₃ + LPG | 1 WAY List Price | 2 WAY List Price |
|--------|--------|------------------|-------------------|--------------------------|---------------|-----------------------------------|----------|--|------------------|------------------|
| | | | | Half Coupling | Full Coupling | 25 PSIG | 100 PSIG | | | |
| 212310 | ----- | 1-1/4" M NPT | 1-1/4" F NPT | 30 | ----- | 5.800 | 9.100 | 27 | 991.86 | |
| 212311 | ----- | 1-1/4" M NPT | 1-1/4" F NPT | 50 | 35 | 7.650 | 12.900 | 45 | 991.86 | |
| 212312 | ----- | 1-1/4" M NPT | 1-1/4" F NPT | 80 | 65 | 10.950 | 18.800 | 72 | 991.86 | |
| 212316 | 212330 | 2" M NPT | 2" F NPT | 100 | 60 | 21.550 | 36.800 | 90 | 2625.48 | 2625.48 |
| 212317 | 212331 | 2" M NPT | 2" F NPT | 150 | 90 | 33.600 | 57.200 | 135 | 2625.48 | 2625.48 |
| 212318 | 212332 | 2" M NPT | 2" F NPT | 250 | 130 | ----- | ----- | 225 | 2625.48 | 2625.48 |
| 212319 | 212333 | 3" M NPT | 3" F NPT | 150 | 100 | 28.600 | 48.700 | 135 | 3150.60 | 3150.60 |
| 212320 | 212334 | 3" M NPT | 3" F NPT | 200 | 125 | 43.500 | 73.900 | 180 | 3150.60 | 3150.60 |
| 212321 | 212335 | 3" M NPT | 3" F NPT | 250 | 165 | 51.500 | 87.600 | 225 | 3150.60 | 3150.60 |
| 212323 | 212339 | 3" M NPT | 3" F NPT | 500 | 325 | ----- | ----- | 450 | 3150.60 | 3150.60 |

FLANGED INTERNAL VALVES

LP GAS



STEEL FLANGED INTERNAL VALVE 3"



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. 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. 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.

- Inlet Connection: 3" 300lb ANSI RF Modified (4 7/8" dia bore)
- Outlet Connection: 3" 300lb. ANSI RF

| Part # | | Closing Flow GPM Propane | LPG Vapor Capacity (SCFH/Propane) | | Closing Flow GPM Ammonia NH ₃ + LPG | Single List Price | Double List Price |
|--------|--------|--------------------------------|--------------------------------------|-------------------|--|----------------------|----------------------|
| Single | Double | | 25 PSIG Inlet | 100 PSIG Inlet | | | |
| 212350 | 212360 | 150 | 25.100 | 42.700 | 135 | 6308.46 | 6928.38 |
| 212351 | 212362 | 200 | 36.900 | 62.800 | 180 | 6308.46 | 6928.38 |
| 212352 | 212363 | 250 | 42.200 | 71.800 | 225 | 6308.46 | 6928.38 |
| 212353 | 212364 | 400 | 59.400 | 100.900 | 360 | 6308.46 | 6928.38 |
| 212354 | 212365 | 500 | ----- | ----- | 450 | 6308.46 | 6928.38 |

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 # | Material | Inlet Connection | Outlet Connection | Wrench Hex Flats | Length | Propane Liquid Capacity at different Δ Pressure | | | List Price |
|--------|----------|------------------|-------------------|------------------|--------------------|---|---------|---------|------------|
| | | | | | | 5 PSIG | 10 PSIG | 25 PSIG | |
| 212630 | Steel | 3/4" F NPT | 3/4" M NPT | 1 3/8" | 1-15/16" (49,2 mm) | 10,75 | 15,7 | 24,5 | 65.64 |
| 212632 | Steel | 1-1/4" F NPT | 1-1/4" M NPT | 2" | 2-1/2" (63,5 mm) | 27,5 | 39,2 | 61,75 | 219.54 |
| 212633 | Steel | 2" F NPT | 2" M NPT | 3" | 3-3/8" (83,5 mm) | 121,5 | 171,5 | 270,5 | 373.44 |

ALSO AVAILABLE: YELLOW BRASS FITTINGS • COPPER AND ALUMINUM TUBING • BRASS VALVES • MALLEABLE FITTINGS • STEEL NIPPLES • QUICK DISCONNECTS • FORGED FITTINGS • GAUGES • SWAGES AND BULLPLUGS

AUTO GAS EQUIPMENT

LP GAS



FILLER VALVES



212155

Direct Filler valve with OPD for Automotive Application. Fitted with an OPD device 80% fill limiter. Pre-applied sealant on the container connection.



212156

Remote Filler valve with OPD for Automotive Application. Incorporates standard 1 1/16" hex wrench flat that allows easy installation from the top with a socket wrench.



212640

Allows the filling through the EN 12806 Euro connection.

Ordering Information - Specify tank diameter when ordering

| Part # | Tank Connection | Filler Connection | Wrench Hex Flat | Inlet Connection | List Price |
|--------|-----------------|-------------------|-----------------|------------------|------------|
| 212155 | 3/4" NPT | 1-3/4" ACME | 1-3/4" | / | 186.00 |
| 212156 | 3/4" NPT | 1/2" SAE | 1-1/16" | / | 192.00 |
| 212157 | 3/4" NPT | 1/2" SAE | 1-1/16" | / | 82.98 |
| 212640 | / | Ø30-EN12806 | / | 1/2" SAE FLARE | 238.14 |

* Full Range of Remote filler valves with OPD available according to tank diameter. Please specify tank diameter when ordering.



SERVICE VALVES



212710

Solenoid Service Valve: can be fitted to all tank sizes upon request. Pre-applied sealant on the container connection. Equipped with excess flow and manual shutoff device. Voltage: 12V

212202

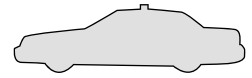
Manual Service Valve equipped with an excess flow device. Pre-applied sealant on the container connection.



Ordering Information

| Part # | Container Connection | Outlet Connection | Normal Application | Excess Flow Closing | List Price |
|--------|----------------------|---------------------------|--------------------|---------------------|------------|
| 212710 | 3/4" - 14 NPT | 5/8" UNF (1/2" SAE FLARE) | RV - Automotive | 1.4 GPM | 258.00 |
| 212202 | 3/4" M. NGT | POL (CGA 510) | ASME Motor Fuel | 2.6 GPM | 57.60 |

SAFETY RELIEF VALVES

**212674**

Equipped with rain cap for protection against contamination. Pre-applied sealant on the container connection.

**212176**

Equipped with rain cap for protection against contamination. Pre-applied sealant on the container connection.

Ordering Information

| Part # | Container Connection | Start to Discharge Setting PSIG | UL (at 120% of set pressure) Flow capacity SCFM/AIR | ASME (at 120% of set pressure) Flow capacity SCFM/AIR | Wrench Hex Flat | List Price |
|--------|----------------------|---------------------------------|---|---|-----------------|------------|
| 212674 | 1" NPT | 312 | 1109 | 979 | 1-5/16" | 82.98 |
| 212176 | 3/4" NPT | 312 | 690 | 690 | 1-1/16" | 61.50 |

SAFETY RELIEF VALVES



Pre-applied sealant on the container connection. Special DT length can be ordered apart. An optional instruction plate may be ordered for use with these valves.

212210

Fixed Liquid Level Gauge

**212219**

Remote Fixed Liquid Level Gauge



Ordering Information

| Part # | Container Connection | Outlet Connection | DT Length | List Price |
|--------|----------------------|-------------------|-----------|------------|
| 212210 | 1/4" M NPT | - | 12" | 14.70 |
| 212211 | 1/4" M NPT | - | 5.4" | 14.70 |
| 212215 | 1/4" M NPT | - | 5.6" | 14.70 |
| 212217 | 1/4" M NPT | - | Without | 12.84 |
| 212219 | 1/4" NPTF | 1/4" SAE Flare | Without | 22.14 |

EURO FILLER

LP GAS



EURO FILLER



200525

Allows the filling through the EN 12806 Euro connection.



213020

Allows the filling through the EN 12806 Euro connection.
Kit includes Black Housing, Cap and Euro Filler Valve

Ordering Information

| Part # | Filler Connection | Inlet Connection | Specify tank diameter when ordering | List Price |
|--------|-------------------|------------------|-------------------------------------|------------|
| 200525 | Ø30-EN12806 | 1/2" SAE FLARE | * | 238.14 |
| 213020 | Ø30-EN12806 | 1/2" SAE FLARE | * | 445.38 |

ACME/EURO ADAPTERS

The adapter converts the EN 12806 connection to ACME connection.
Once installed the adapter will prevent any disconnection caused by accidental rotations of the filling head.

The adapter converts the ACME connection to EN 12806 connection.



212645



212646

Ordering Information

| Part # | Female Thread | Male Thread | List Price |
|--------|----------------|----------------|------------|
| 212645 | M33 x 2 | 1 3/4 - 6 ACME | 290.70 |
| 212646 | 1 3/4 - 6 ACME | EURO EN 12806 | 253.62 |

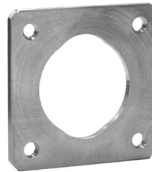
EURO FILLER ACCESSORIES

Plastic Housing
with Flip DoorPlastic Housing
AssemblyBulkhead Mount
Euro Valve
Protection Cap

| Part # | List Price |
|--------|------------|
| 212650 | 191.76 |

| Part # | List Price |
|--------|------------|
| 212652 | 167.04 |

| Part # | List Price |
|--------|------------|
| 212654 | 12.60 |

Plastic Housing
Flip Door

Euro Filler Plate



Flip Door O-Ring

| Part # | List Price |
|--------|------------|
| 212651 | 24.72 |

| Part # | List Price |
|--------|------------|
| 212653 | 21.48 |

| Part # | List Price |
|--------|------------|
| 212660 | 6.78 |

DUAL CHECK T-CONNECTOR

Should two tank pressures become unequal, this connector will draw LPG from the tank with the higher pressure until both pressures equalize;
LPG will then be drawn from both tanks.
Integrated Hydrostatic Pressure Relief Valve.



200530

Ordering Information

| Part # | PRV - Setting to discharge setting (PSIG) | Working Temperature | Pipe Connection | Outlet Connection | List Price |
|--------|--|------------------------|-----------------|-------------------|------------|
| 200530 | 400 | -40 °F to +130 °F | 3/8" SAE Flare | 3/8" SAE Flare | 233.94 |