

## Cylinder Brass

### 8000 SERIES BRASS DIAPHRAGM VALVES

Superior's 8000 Series is designed for various high purity gases, UHP mixtures and pure gas applications. Superior's 8000 Series has multiple seat material configurations to accommodate all high-purity gas applications, UHP mixtures and pure gas applications.. The 8000 Series valve also has a standardized anti-extrusion pin feature that prevents seat extrusion and cold flow of the polymeric seat.

#### Key Features & Benefits

- Available in multiple seat material configurations to accommodate all high-purity gas applications
- Increased flow (Cv) to aid in reducing vent and purge times
- Low operating torque design ensures ease of operation during filling and use
- Available with unitized pressure-relief device, which is equipped with a webbed washer design to protect the burst disc from damage during transportation and replacement
- Optional inlets equipped for dip tube assembly
- Available with standard CGA connections as well as international inlets and outlets

RMI Part No.	Gas Service @ 70° F	CGA Outlet	Inlet Thread Size	Safety Type
807429651-XXX	0-3000PSI	326	1.125-12 UNF	CG-1
807432061-XXNT	0-3000PSI	320	3/4" NGT	CG-1
807432661-XXNT	0-3000PSI	326	3/4" NGT	CG-1
807435054-XXC	0-3000PSI	350	1.125-12 UNF	CG-4
807435054-XXC-75	0-3000PSI	350	.750-16 UNF	CG-4
807435054-XXC-75B	0-3000PSI	350	.750-16 UNF	CG-4
807435055-XXC	0-3000PSI	350	1.125-12 UNF	CG-5
807435061-XXC	0-3000PSI	350	3/4" NGT	CG-1
807435064-XXC	0-3000PSI	350	3/4" NGT	CG-4
807435064-XXCR	0-3000PSI	350	3/4" NGT	CG-4
807435065-XXC	0-3000PSI	350	3/4" NGT	CG-5
807454061-XXN	0-3000PSI	540	3/4" NGT	CG-1
807454061-XXNB	0-3000PSI	540	3/4" NGT	CG-1
807458041-XX	0-3000PSI	580	1/2" NGT	CG-1
807458041-XXNB	0-3000PSI	580	1/2" NGT	CG-1
807458051-XXN	0-3000PSI	580	1.125-12 UNF	CG-1
807458051-XXN-75	0-3000PSI	580	.750-16 UNF	CG-1
807458061-XXN	0-3000PSI	580	3/4" NGT	CG-1
807458061-XXNT	0-3000PSI	580	3/4" NGT	CG-1
807459051-XXN-75	0-3000PSI	590	.750-16 UNF	CG-1
807459051-XXN	0-3000PSI	590	1.125-12 UNF	CG-1
807459061-XXN	0-3000PSI	590	3/4" NGT	CG-1
807466061-XXN	0-3000PSI	660	3/4" NGT	CG-1

#### Safety Type

0= No Safety
1= Unbacked Frangible Disc
4= Backed Frangible Disc with 165° Fuse Metal
5= Backed Frangible Disc with 212° Fuse Metal

For more information or additional configurations please contact customer service

"XX" should be replaced with safety pressure needed  
Suffix Explanation

"B"	Valve is Bagged
"C"	Copper Disc
"K"	Kynar Seat
"N"	Nickel Disc
"P"	Platinum Disc
"R"	Tapped for Flow Restrictor
"T"	1/4" FNPT Tapped Inlet
"V"	Vespal Seat

#### Safety Pressure

28- 3000PSIG
32- 3360PSIG
35- 3775PSIG
38- 4000PSIG



8000 SERIES

**Cylinder Brass**

**LOW PRESSURE BRASS HYDROCARBON DIAPHRAGM VALVES**

These valves are designed for use in liquefied gas applications including the following,

- Refrigerants
- Propane
- Butane
- Sterilant Gas

Key Features & Benefits

- Optional valve charging port to build head pressure
- Liquid and vapor withdrawal versions
- Replaceable 375 or 435 psi CG7 safety



1132X9510-435

RMI Part No.	Inlet	Outlet	PRD (PSI)	Tapped For Dip tube	Pressurizing port	Excess Flow Device
1132X9555-435	3/4-14 NGT	CGA555	435	1/8"-27 NPT	Y	N
1132X9510-435	3/4-14 NGT	CGA510	435	1/8"-27 NPT	Y	N
1132E510-435	3/4-14 NGT	CGA510	435	N/A	N	N
1132T555-435	3/4-14 NGT	CGA555	435	1/8"-27 NPT	N	N
1132X9555-375	3/4-14 NGT	CGA555	375	1/8"-27 NPT	Y	N
1132X9510-375	3/4-14 NGT	CGA510	375	1/8"-27 NPT	Y	N
1132E510-375	3/4-14 NGT	CGA510	375	N/A	N	N
1132T555-375	3/4-14 NGT	CGA555	375	1/8"-27 NPT	N	N
1132T510-375	3/4-14 NGT	CGA510	375	1/8"-27 NPT	N	N
1132T660-375	3/4-14 NGT	CGA660	375	1/8"-27 NPT	N	N
1132E660-376	3/4-14 NGT	CGA660	375	N/A	N	N
1132X8555	3/4-14 NGT	CGA555	212°Fuse	1/8"-27 NPT	N	N
1132X8510	3/4-14 NGT	CGA510	212°Fuse	1/8"-27 NPT	N	N
F10090158	3/4-14 NGT	CGA555	375	1/8"-27 NPT	N	Y

## Cylinder Brass

### GSV & GSHV SERIES GLOBAL INDUSTRIAL VALVES

Designed for use in every country around the world, our Global Industrial Gas Valve, the GSV Series is designed to meet the newest revision of ISO 10297 and CGA V-9. For use in cylinders containing inerts, oxidizers and flammables.

#### Key Features & Benefits

- Automated assembly and testing processes ensure exceptional quality
- 100% helium leak tested
- Heavy-duty forged brass body for durability and high pressure
- Precisely machined internal components meet the most stringent international valve performance standards
- Pressure Relief Device (PRD) is a unitized plug design that provides excellent flow characteristics, ensures proper assembly and tamper resistance
- Improved metal-to-metal seal below bonnet threads prevents pressure in the threads at top of valve body
- Direct-drive stem design with optimized O-ring (GSV) or double O-ring (GSHV) seal reduces friction and operates at exceptionally low torque levels
- Inlet and outlet thread configurations are available for a broad spectrum of customer, country and code specifications
- Inlets tapped (1/4" NPT) for dip tube as required



**GSHV68061-XX**



**GSV32051-XX**



**GSV58061-XX**

RMI Part No.	Gas Service @ 70° F	CGA Outlet	Inlet Thread Size
GSV32041•XX	0 PSI-3000 PSI	320	1/2" NGT
GSV32061•XX	0 PSI-3000PSI	320	3/4" NGT
GSV32081•XX	0 PSI-3000 PSI	320	1" NGT
GSV32025E1•XX	0 PSI-3000PSI	320	25EISO
GSV32051•XX•75	0 PSI-3000 PSI	320	.750-16 UNF
GSV32051•XX	0 PSI-3000PSI	320	1.125-12 UNF
GSV32641•XX	0 PSI-3000PSI	326	1/2" NGT
GSV32661•XX	0 PSI-3000 PSI	326	3/4" NGT
GSV32681•XX	0 PSI-3000 PSI	326	1" NGT
GSV32625E1•XX	0 PSI-3000 PSI	326	25EISO
GSV32651•XX•75	0 PSI-3000 PSI	326	.750-16 UNF
GSV32651•XX	0 PSI-3000 PSI	326	1.125-12 UNF
GS'/34641•XX	0 PSI-3000 PSI	346	1/2" NGT
GSV34661•XX	0 PSI-3000 PSI	346	3/4" NGT
GSV34681•XX	0 PSI-3000 PSI	346	1" NGT
GSV34625E1•XX	0 PSI-3000 PSI	346	25EISO
GSV34651•XX•75	0 PSI-3000 PSI	346	.750-16 UNF
GSV34651•XX	0 PSI-3000 PSI	346	1.125-12 UNF
GSHV34761•XX	3001PSI-4700 PSI	347	3/4" NGT
GSHV34725E1•XX	3001PSI-4700 PSI	347	25EISO
GSHV70225E1•XX	4701PSI-6400 PSI	702	25EISO
GSHV70261•XX	4701PSI-6400 PSI	702	3/4" NGT
GS'/35045-XX	0 PSI-3000 PSI	350	1/2" NGT
GSV35065-XX	0 PSI-3000 PSI	350	3/4" NGT
GSV35085-XX	0 PSI-3000 PSI	350	1" NGT
GSV35025E5•XX	0 PSI-3000 PSI	350	25EISO
GSV35055-XX•75	0 PSI-3000 PSI	350	.750-16 UNF

RMI Part No.	Gas Service @ 70° F	CGA Outlet	Inlet Thread Size
GSV35055-XX	0 PSI-3000 PSI	350	1.125-12 UNF
GSHV69565-XX	3001PSI-4700 PSI	695	3/4" NGT
GSHV70365•XX	4701PSI-6400 PSI	703	3/4" NGT
GSV54041•XX	0 PSI-3000 PSI	540	W'NGT
GSV54025E1•XX	0 PSI-3000 PSI	540	25EISO
GSV54061•XX	0 PSI-3000 PSI	540	3/4" NGT
GSV54081•XX	0 PSI-3000 PSI	540	1" NGT
GSV54051•XX•75	0 PSI-3000 PSI	540	.750-16 UNF
GSV54051•XX	0 PSI-3000 PSI	540	1.125-12 UNF
GSHV57761•XX	3001PSI-3500 PSI	577	3/4" NGT
GSHV70161•XX	3501PSI-4700 PSI	701	3/4" NGT
GSV58041•XX	0 PSI-3000 PSI	580	1/2" NGT
GSV58061•XX	0 PSI-3000 PSI	580	3/4" NGT
GSV58081•XX	0 PSI-3000 PSI	580	1" NGT
GSV58025E1•XX	0 PSI-3000 PSI	580	25EISO
GSV58051•XX•75	0 PSI-3000 PSI	580	.750-16 UNF
GSV58051•XX	0 PSI-3000 PSI	580	1.125-12 UNF
GSHV68061•XX	3001PSI-4700 PSI	680	3/4" NGT
GSHV68025E1•XX	3001PSI-4700 PSI	680	25EISO
GSHV67761•XX	4701PSI-6400 PSI	677	3/4" NGT
GSHV67725E1•XX	4701PSI-6400 PSI	677	25EISO
GSV59041•XX	0 PSI-3000 PSI	590	1/2" NGT
GSV59061•XX	0 PSI-3000 PSI	590	3/4" NGT
GSV59081•XX	0 PSI-3000 PSI	590	1" NGT
GSV59025E1•XX	0 PSI-3000 PSI	590	25EISO
GSV59051•XX•75	0 PSI-3000 PSI	590	.750-16 UNF
GSV59051•XX	0 PSI-3000 PSI	590	1.125-12 UNF

"Oversize Inlets: 4 and 7 (low-pressure) and 24 (high-pressure) threads oversize inlets: To order, add -4, -7 or -24 to the end of the Part Number. For example, GSV34661•XX becomes GSV34661•XX•7 Chrome plating: To order, add letter "A" after letters GSV or GSHV in the Part Number. For example, GSV34661•XX becomes GSVA34661•XX.

Lexan® polycarbonate handWheels: To order, add suffix LX to the end of the Part Number. For example, GSV34661•XX becomes GSV34661•XXLX. Fusible backed pressure relief devices: For 165°F nominal melting temperatures, change 1 in the Part Number to 4 (165°F) or to 5 (212°F) (e.g. GSV35061•XX becomes GSV35064•XX for 165°F or GSV35065•XXY for 212°F).



Non-stock/special order items are not cancellable or returnable

Shop online at [www.raymurray.com](http://www.raymurray.com) or call **800-628-5044**

**Cylinder Brass**

**PRESSURE RELIEF DEVICES FOR GSV & GSHV SERIES VALVES**

Pressure Relief Device			Cylinder Working Pressure				Disc Rupture Range PSI @ 160°	
CG-1	CG-4*	CG-5*		D.O.T Spec 3A 3AA 3AL Cylinders PSI	D.O.T. Exemption Cylinders PSI	International Cylinders BAR		
Frangible Disc	Frangible Disc	Frangible Disc						
No Fuse Metal	165° F Fuse Metal	212° F Fuse Metal	-XX				Min.	Max.
GSV Low Pressure								
P625-19N9-28	P625-19C9-28M	P625-19C9-28W	-28	1800	-----	-----	2700	3000
P625-19N9-32	P625-19C9-32M	P625-19C9-32W	-32	2015	-----	-----	3025	3360
P625-19N9-35	P625-19C9-35M	P625-19C9-35W	-35	2265	-----	-----	3400	3775
P625-19N9-38	P625-19C9-38M	P625-19C9-38W	-38	2400	-----	-----	3600	4000
P625-19N9-39	P625-19C9-39M	P625-19C9-39W	-39	-----	-----	200	3915	4350
P625-19N9-43	P625-19C9-43M	P625-19C9-43W	-43	2670	-----	-----	4005	4450
P625-19N9-46	P625-19C9-46M	P625-19C9-46W	-46	2900	-----	-----	4350	4833
P625-19N9-47	P625-19C9-47M	P625-19C9-47W	-47	2950	-----	-----	4425	4917
GSHV High Pressure								
P625-19N9H-48	-----	P625-19C9H-48W	-48	3000	-----	230	4500	5000
P625-19N9H-55	-----	P625-19C9H-55W	-55	3500/3600	-----	-----	5250	58333
P625-19N9H-63	-----	P625-19C9H-63W	-63	4000	-----	-----	6000	6665
P625-19N9H-65	-----	P625-19C9H-65W	-65	-----	4500	300	6075	6750
P625-19N9H-71	-----	P625-19C9H-47W	-71	-----	5000	-----	6750	7500
P625-19N9H-78	-----	P625-19C9H-78W	-78	5000	-----	-----	7500	8333
P625-19N9H-85	-----	P625-19C9H-85W	-85	6000	6000	-----	8100	9000
P625-19N9H-95	-----	P625-19C9H-95W	-95	-----	-----	-----	9000	10,000

\* Copper disc must be used for hydrogen service  
 Pressure relief devices come standard with a nickel disc. For copper disc option with CG-4 and CG-5, use an "C" in place of the "N" in the part number. For chrome-plated CG-1 PRD's, add "1" before part number. For example, P625-19N9H-XX becomes 1-P625-19N9H-XX



P625-19N9-32

**Cylinder Brass**

**AV & GSV SERIES ACETYLENE VALVES**

GSV series valves are designed specifically for acetylene cylinder applications. They meet stringent international performance standards.

GSVT is designed for special 360° collar-type cylinders (including WB, WQ, WS, WT and WK style), Sherwood's acetylene vertical outlet valve with a handwheel has a durable body, O-ring and soft seat design

AV Series offers handwheel-operated acetylene valves for B & MC cylinders used in welding applications

**Key Features & Benefits**

- Durable forged brass body, precisely machined internal components and design elements meet the most stringent international valve performance standards
- High-temperature aluminum alloy handwheel with large drainage holes
- 100% helium leak tested
- Designed with low-torque operation for easy hand use
- Durable lower plug made of tough naval brass resists wear
- Precise quality machining results in exceptional finishes for low-torque sealing
- Metal-to-metal seal below bonnet threads prevents pressure accumulation at top of valve body
- High durometer back-up ring prevents extrusion of O-ring in extreme applications
- Peroxide curing of elastomeric seals enhances valve longevity
- Direct drive stem design with optimized single O-ring seal reduces friction and operates at exceptionally low torque levels

RMI Part No.	CGA Outlet	Inlet Thread Size	Handwheel
AVB521	520	3/8" NGT	N
AVMC201	200	3/8" NGT	N
AV5160WB	510 Top Outlet	3/4" NGT	N
AVMC201HW	200	3/8" NGT	Y
AVB521HW	520	3/8" NGT	Y
GSV30040	300	1/2" NGT	Y
GSV30060	300	3/4" NGT	Y
GSVT30060	300 Top Outlet	3/4" NGT	Y
GSV30080	300	1" NGT	Y
GSV51040	510	1/2" NGT	Y
GSV51060	510	3/4" NGT	Y
GSVT51060	510 Top Outlet	3/4" NGT	Y
GSV51080	510	1" NGT	Y



AVB521



AVB521HW



AVMC201



AVMC201HW



GSV51060



GSVT51060



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Shop online at [www.raymurray.com](http://www.raymurray.com) or call **800-628-5044**

## Cylinder Brass

### NGSV SERIES

Global valve for hydrocarbon based flammable gases, including compressed natural gas (CNG), methane, ethane and other similar gases.

#### Key Features & Benefits

- Automated assembly and testing processes ensure exceptional quality
- 100% helium leak tested
- Heavy-duty forged brass body for durability and high pressure
- Precisely machined internal components meet the most stringent international valve performance standards
- Reduced internal stress zones
- Innovative valve core design
- Durable Buna-N O-ring and PTFE backup O-ring compatible with flammable gases
- Pressure Relief Device (PRD) unitized plug design provides excellent flow characteristics
- Metal-to-metal seal below bonnet threads prevents pressure in the threads at top of valve body
- Direct-drive stem design with optimized O-ring (NGSV) or double O-ring (NGSHV) seal reduces friction and operates at exceptionally low torque levels
- Available inlets include NGT, UNF, DIN477, BS, ABNT and others
- Tapped for dip tube as required

#### METHYL FLUORIDE

RMI Part No.	Gas Service @ 70° F	CGA Outlet	Inlet Thread Size
NGSV35064-XX	0 PSI-3000PSI	350	3/4" NGT
Ethane, Ethylene			
NGSV35061-XX	0 PSI-3000PSI	350	3/4" NGT

#### METHANE, NATURAL GAS

RMI Part No.	Gas Service @ 70° F	CGA Outlet	Inlet Thread Size
NGSV3504X-XX	0 PSI-3000PSI	350	1/2" NGT
NGSV3506X-XX	0 PSI-3000PSI	350	3/4" NGT
NGSV3505X-XX	0 PSI-3000PSI	350	1.125-12 UNF
NGSV35025EX-XX	0 PSI-3000PSI	350	25E
NGSV3508X-XX	0 PSI-3000PSI	350	1" NGT
NGSHV6956X-XX	3001 PSI-4700PSI	695	3/4" NGT
NGSHV6955X-XX	3001 PSI-4700PSI	695	1.125"-12UNF
NGSHV69525EX-XX	3001 PSI-4700PSI	695	25E
NGSHV7036X-XX	4701 PSI-6400PSI	703	3/4" NGT
NGSHV70325EX-XX	4701 PSI-6400PSI	703	25E

#### NGSRPV

RMI Part No.	Gas Service @ 70° F	CGA Outlet	Inlet Thread Size
Ethane			
NGSRPV35064-XX	0 PSI-3000PSI	350	3/4" NGT
Ethylene			
NGSRPV35061-XX	0 PSI-3000PSI	350	3/4" NGT
Methane, Natural Gas			
			25E
NGSRPV3504X-XX	0 PSI-3000PSI	350	1/2" NGT
NGSRPV3506X-XX	0 PSI-3000PSI	350	3/4" NGT
NGSRPV35025EX-XX	0 PSI-3000PSI	350	25E

#### Options

*Oversize Inlets: 4 and 7 (low -pressure) and 24 (high pressure only) threads oversize inlets: To order ,add -4, -7 or -24 to the end of the part number. (e.g. NGSV35064-XX becomes NGSV35064-XX-7.*

*To order chrome plating, add letter "A" after the letters NGSV in the part number ( e.g. NGSV35061-XX becomes NGSVA35061-XX)*

*To order fusible backed pressure relief devices in 165°F or 212°F nominal melting temperatures, change "1" in the part number to "4" for (165°F) or to "5" for (212°F)*

*(e.g. NGSV35061-XX becomes NGSV35064-XX for 165°F, or NGSV35065-XX for 212°F.*



NGSHV69565-XX



NGSV3506X-XX