PERFORMANCE TESTED EQUIPMENT

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CRYOGENIC HARDWARE CATALOG



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INTRODUCTION

Thank you for your interest in Veite Cryogenic Equipment and Service Corporation. We have been in operation since 1969 delivering quality products and expert service to the compressed gas industry. We have come a long way and continue to innovate better designs to meet your gas handling needs.



INTRODUCTION

Veite Cryogenic Equipment has become the recognized leader in the compressed gas industry with the design, manufacture and installation of cryogenic and high pressure gas delivery systems. We install turnkey compressed gas distributor fill plants for industrial and medical gas users. As well as high purity specialty gas production plants for today's high-tech research and laser applications.





At VCE we offer a complete line of quality tested, safety approved cryogenic hardware, available for immediate shipment. We also stock the most extensive inventory of cryogenic transfer pumps. They are available for same day exchange with your defective pump. This will eliminate your downtime, increasing profits.

GAUGES



All VCE gauges are manufactured with the finest materials and quality workmanship and are warranted to be free of defects under normal use for 1 year. All gauges are equipped with a balanced micrometer pointer, non-breakable safety lenses, safety blow-out discs, and are cleaned for oxygen service.

VCE Pressure and Compound Vacuum, gauges feature 1/2% accuracy, 2- ½", 4- ½" or 6" dial sizes with all stainless-steel rotary movements. Phosphor bronze, beryllium copper, 316 stainless bourdon tubes and brass or stainless steel ¼" N.P.T. and ½" N.P.T. bottom or lower back mounted connections are available.

VCE test gauges are necessary where a high degree of accuracy is required, and operator error must be minimized. VCE test gauges offer ¼ % accuracy and better readability thanks to a knife-edged pointer and mirrored back dial.



GAUGES

PRESSURE GAUGES

Cleaned for Oxygen Service

1. Model

GP	Pressure Gauge
GV	Compound Vacuum Gauge
GT	1/4% Test Gauge

2. Dial Size

2	2”
3	2-1/2”
4	4-1/2”
6	6”

Range

1	30 hg vacuum 0-100 psi
2	0-100 psi
3	0-200 psi
4	0-400 psi
5	0-1000 psi
6	0-3000 psi
7	0-5000 psi
8	0-6000 psi
9	0-10000 psi

Connection Size

4	1/4” N.P.T.
8	1/2” N.P.T.



Pressure Gauge

3. Connection Mount Location

BT	Bottom Mount Connection
BK	Lower Back Connection

N.I.S.T. Certifiction Available

Example Part Number:

GT-678-BK

- GT — Gauge Options — 1.
- 6 — Dial Size — 2.
- 7 — Range — 2.
- 8 — Connection Size — 2.
- BK — Connection Mount Location — 3.



Compound Vacuum Gauge



Test Gauge

GAUGES

LIQUID LEVEL CONTENTS GAUGE

Application:

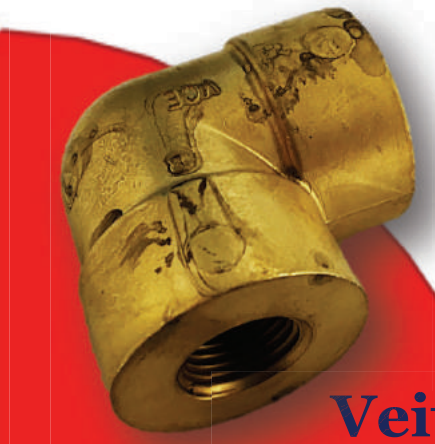
For use in the measurement of liquefied gases stored in cryogenic vessels. oxygen, nitrogen, argon, helium and hydrogen.

Model	Dial Size	Range	Case	Mounting
GLL-380	3”	0-80” H20	3” Black aluminum	Flush panel
GLL-680	6”	0-80” H20	6” Black aluminum	Flush panel
GLL-3150	3”	0-150” H20	3” Black aluminum	Flush panel
GLL-6150	6”	0-150” H20	6” Black aluminum	Flush Panel
GLL-6200	6”	0-200” H20	6” Black aluminum	Flush panel
GLL-6300	6”	0-300” H20	6” Black aluminum	Flush panel
GLL-6400	6”	0-400” H20	6” Black aluminum	Flush panel

Available with hi/low controls



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HIGH PRESSURE FITTINGS

Veite Cryogenic Equipment stock a complete inventory of cryogenic and compressed gas fittings for the welding/ gas distribution needs.



- **Pressures to 6000 psi**
- **Available in brass and stainless steel**

- **Pressures to 6000 psi**
- **Available in brass and stainless steel**





FORGED BRASS HIGH PRESSURE FITTINGS

MANIFOLD FITTINGS

Application:
High pressure manifold construction.

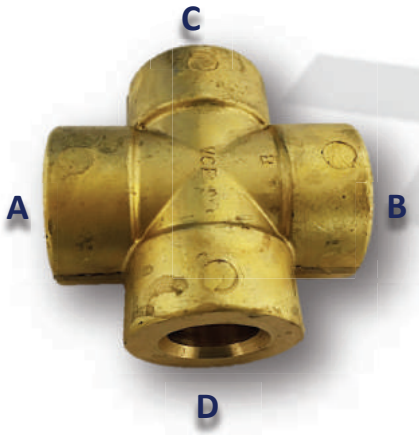


Forged Brass Crosses

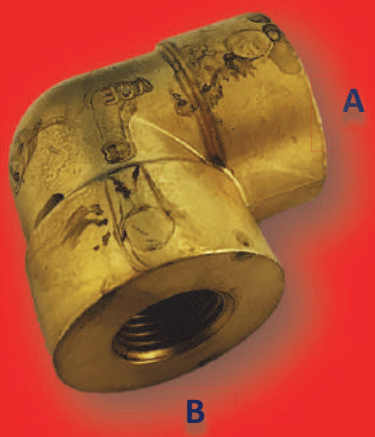
Multiple Heavy – For pressures up to 3600 and 6000 psig

FIG	A (FEMALE)	B (FEMALE)	C (FEMALE)	D (FEMALE)	E (REF.)	PART NO.
1	1/2" NPT 1/2" NPT 3/4" NPT 3/4" NPT	1/2" NPT .843" - .847" 3/4" NPT 1.053" - 1.057"	1/2" NPT .843" - .847" 3/4" NPT 1.053" - 1.057	1/2" NPT .843" - .847" 3/4" NPT 1.053" - 10.57"	3" 3" 3"	6CES511 6CES8888 CES452 CES12111
2	.843" - .847" 1.053" - 1.057"	1/2" NPT 3/4" NPT	1/2" NPT 3/4" NPT	1/2" NPT 3/4" NPT	3" 3"	6CES543 CES514
3	843" - .847" 1.053" - 1.057"	843" - .847" 1.053" - 1.057"	1/2" NPT 3/4" NPT	1/2" NPT 3/4" NPT	3" 3"	6CES536 CES228
4	1.053" - 1.057" .843" - .847"	3/4" NPT 1/2" NPT	1.053" - 1.057" .843" - .847"	3/4" NPT 1/2" NPT	3" 3"	CES149 6CES302

Part numbers with 6 prefix indicate 6000 psig available in CES Multiple Heavy Crosses.



FORGED BRASS HIGH PRESSURE FITTINGS



MANIFOLD FITTINGS

Application:
High pressure manifold construction.

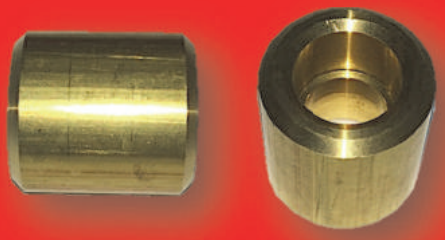
Forged Brass Elbows

Multiple Heavy – For pressures up to 3600 and 6000 psig

FIG.	A (FEMALE)	B (FEMALE)	C (FEMALE)	PART NO.
1	1/4" NPT	1/4" NPT	1-1/2"	6CES211
	1/4" NPT	3/4" NPT	1-1/2"	CES362
	1/4" NPT	1.053" - 1.057"	1-1/2"	CES410
	1/2" NPT	1/2" NPT	1-1/2"	6CES814
	1/2" NPT	3/4" NPT	1-1/2"	CES345
	3/4" NPT	3/4" NPT	1-1/2"	CES436
2	1/4" NPT	.843" - .847"	1-1/2"	6CES859
	1/2" NPT	.843" - .847"	1-1/2"	6CES8210
	1/2" NPT	1.053" - 1.057"	1-1/2"	CES3311
	3/4" NPT	1.053" - 1.057"	1-1/2"	CES3212
3	843" - .847"	843" - .847"	1-1/2"	6CES415
	1.053" - 1.057"	1.053" - 1.057"	1-1/2"	CES616

Part numbers with 6 prefix indicate 6000 psig available in CES Multiple Heavy Crosses.

Forged Brass Socket Coupler



A (Female)	A (Male)	C (Ref.)	Adapter
.843"-.847	.843"-.847	1-5/8"	CES165
1.053-1.057"	1.053-1.057"	2"	CES416

FORGED BRASS HIGH PRESSURE FITTINGS

MANIFOLD FITTINGS

Application:
High pressure manifold construction.



Forged Brass Tees

Multiple Heavy – For pressures up to 3600 and 6000 psig

FIG	A (FEMALE)	B (FEMALE)	C (FEMALE)	D (FEMALE)	E (REF.)	PART NO.
1	1/4" NPT	1/4" NPT	1/4" NPT	3"	1-1/2"	6CES101
	1/2" NPT	1/2" NPT	1/2" NPT	3"	1-1/2"	6CES713
	1/2" NPT	1/2" NPT	3/4" NPT	3"	1-1/2"	CES164
	1/2" NPT	3/4" NPT	1/2" NPT	3"	1-1/2"	CES155
	3/4" NPT	3/4" NPT	1/2" NPT	3"	1-1/2"	CES206
	3/4" NPT	3/4" NPT	3/4" NPT	3"	1-1/2"	CES427
2	1/2" NPT	1/2" NPT	843" - .847"	3"	1-1/2"	6CES7610
	3/4" NPT	3/4" NPT	1.053" -1.057"	3"	1-1/2"	CES2111
3	1/2" NPT	843" - .847"	1/2" NPT	3"	1-1/2"	6CES7315
	3/4" NPT	1.053" - 1.047"	3/4" NPT	3"	1-1/2"	CES8516
4	.843" - .847"	.843" - .847"	.843" - .847"	3"	1-1/2"	6CES2821
	1.053" - 1.057"	1.053" - 1.047"	1.053" - 1.047"	3"	1-1/2"	CES8222
5	.843" - .847"	.843" - .847"	1/4" NPT	3"	1-1/2"	6CES1224
	.843" - .847"	.843" - .847"	1/2" NPT	3"	1-1/2"	CES7925
	1.053" - 1.057"	1.053" - 1.057	1/4" NPT	3"	1-1/2"	CES9326
	1.053" - 1.057"	1.053" - 1.057	1/2" NPT	3"	1-1/2"	CES2127
	1.053" - 1.057"	1.053" - 1.057	3/4" NPT	3"	1-1/2"	CES3328
6	.843" - .847"	1/2" NPT	.843" - .847"	3"	1-1/2"	6CES8488
	1.053" - 1.057"	3/4" NPT	1.053" - 1.057"	3"	1-1/2"	CES8131

HIGH PRESSURE FITTINGS

BRASS PIPE NIPPLES

Brass Nipples

Multiple Heavy – For pressures up to 3600 and 6000 psig
Suitable for acetylene services



Length	3000 psig 1/4" NPT	3600 psig 1/2" NPT	6000 psig 1/2" NPT	3600 psig 3/4" NPT	6000 psig 3/4" NPT	Length	3000 psig 1/4" NPT	3600 psig 1/2" NPT	6000 psig 1/2" NPT	3600 psig 3/4" NPT	6000 psig 3/4" NPT
1/2"	CE155	——	——	——	——	4-1/2"	CE4524	CE4525	6CE 4527	CE4526	6CE 4528
2"	CE207	CE208	6CE 210	CE209	6CE 211	5"	CE5028	CE5029	6CE 5066	CE5030	6CE 5067
2-1/2"	CE2511	CE2512	6CE 2514	CE2513	6CE 2515	5-1/2"	CE5531	CE5532	6CE 5534	CE5533	6CE 5539
3"	CE3014	CES301	6CE 3017	CE3016	6CE 3018	6"	CE6034	CE6035	6CE 6044	CE6036	6CE 6045
3-1/2"	CE3517	5	6CE 3520	CE3519	6CE 3521	8"	——	CE0837	6CE 0852	CE9138	6CE 0853
4"	CE4020	CE3518 CE4021	6CE 4023	CE4022	6CE 4024	10"	——	CE0640	6CE 06	CE4941	6CE 0643

Brass Pipe Lengths



Multiple Heavy – For pressures up to 3600 and 6000 psig
Suitable for acetylene services

Std. Length	3000 psig 1/4" NPT	3600 psig 1/2" NPT	6000 psig 1/2" NPT	3600 psig 3/4" NPT
1 ft.	CE13650	6CE16050	CE14675	6CES211
2 ft.	CE23650	6CE26050	CE23675	CES362
4 ft.	CE43650	6CE46050	CE43675	CES410
6 ft.	CE63650	6CE66050	CE63675	6CES814
8 ft.	CE83650	6CE86050	CE83675	CES345
10 ft.	CE103650	6CE106050	CE103675	CES436
12 ft.	CE123650	6CE126050	CE123675	

HOW TO ORDER: To specify threading, follow the basic part number with the suffix shown below.

No Threading— NT
Threaded one end— TOE
Threaded both ends— TBE
Threads: 1/2" - 18 NPT threads ONLY are threaded on 1/2" nom. .840" OD pipe and 3/4" - 18 NPT threads ONLY on 3/4" nom. 1.050" OD pipe.

Application:
High pressure piping.

Available in other sizes

HIGH PRESSURE FITTINGS

BRASS AND SS FITTINGS

Application:
High pressure piping.

Hex Nipples



PRECISION PIPE FITTINGS - 3000 psig to 6000 psig*

Male Th. Size	Length	Thru Hole	Hex	Brass 3600 psig	316 SS 6000 psig
1/4" NPT	1-3/8"	9/32"	9/16"	HN-4B	HN-4SS
3/8" NPT	1-13/32"	3/8"	11/16"	HN-6B	HN-6SS
1/2" NPT	1-25/32"	15/32"	7/8"	HN-8B	HN-8SS
3/4" NPT	1-13/16"	5/8"	1-1/16"	HN-12B	HN-12SS

Hex Reducing Nipple



PRECISION PIPE FITTINGS - 3000 psig to 6000 psig*

Male Pipe Size	Male Pipe Size	Length	Thru Hole	Hex	Brass 3600 psig	316 SS 6000 psig
1/2" NPT	1/4" NPT	1/4" NPT	9/32"	7/8"	HRN-8-4B	HRN-8-4SS
1/3" NPT	3/8" NPT	3/8" NPT	3/8"	7/8"	HRN-8-6B	HRN-8-6SS
3/4" NPT	1/4" NPT	1/4" NPT	9/32"	1-1/16"	HRN-12-4B	HRN-12-4SS
3/4" NPT	1/2" NPT	1/2" NPT	15/32"	1-1/16"	HRN-12-8B	HRN-12-8SS

Hex Coupling



PRECISION PIPE FITTINGS - 3000 psig to 6000 psig*

Female Th. Size	Length	Thru Hole	Hex	316 SS 3600 psig	316 SS 6000 psig
1/4" NPT	1-3/16"	7/16"	3/4"	HC-4B	HN-4SS
3/8" NPT	1-5/16"	37/64"	7/8"	HC-6B	HN-6SS
1/2" NPT	1-9/16"	23/32"	1-1/16"	HC-8B	HN-8SS
3/4" NPT	1-5/8"	59/64"	1-1/4"	HC-12B	HN-12SS

HIGH PRESSURE FITTINGS

BRASS AND SS FITTINGS

Application:
High pressure piping

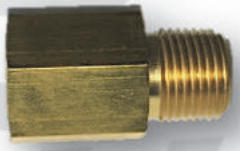
Hex Reducer Coupling



PRECISION PIPE FITTINGS - 3000 psig to 6000 psi ss*

Female Th. size	Female Thread Size	Length	Thru Hole	Hex	Brass 3600 psig	316 SS 6000 psig
3/8" NPT	1/4" NPT	1-5/8" NPT	7/16"	7/8"	HRC-6-4B	HRC-6-4SS
1/2" NPT	1/4" NPT	1-3/8" NPT	7/16"	1-1/16"	HRC-8-6B	HRC-8-4SS
1/2" NPT	3/8" NPT	1-25/32" NPT	37/64"	1-1/16"	HRC-8-6B	HRC-8-6SS
3/4" NPT	1/2" NPT	2-1/16" NPT	23/32"	1-1/4"	HRC-12-8B	HRC-12-8SS

Reducing Adapter



PRECISION PIPE FITTINGS - 3000 psig to 6000 psi ss*

Male Th. size	Female Thread Size	Length	Thru Hole	Hex	Brass 3600 psig	316 SS 6000 psig
1/4" NPT	3/8" NPT	1-9/16" NPT	9/32"	7/8"	RA-4-6B	RA-4-6SS
1/4" NPT	1/2" NPT	1-13/16" NPT	9/32"	1-1/16"	RA-4-8B	RA-4-8SS
3/8" NPT	1/2" NPT	1-13/16" NPT	3/8"	1-1/16"	RA-6-8B	RA-6-8SS
1/4" NPT	3/4" NPT	1-21/32" NPT	9/32"	1-1/4"	RA-4-12B	RA-4-12SS
1/2" NPT	3/4" NPT	2-1/16" NPT	15/32"	1-1/4"	RA-8-12B	RA-8-12SS

Reducing Brushing



PRECISION PIPE FITTINGS - 3000 psig to 6000 psi ss*

Male Th. size	Female Thread Size	Length	Thru Hole	Hex	Brass 3600 psig	316 SS 6000 psig
3/8" NPT	1/4" NPT	1-1/8" NPT	3/8"	3/4"	RB-6-4B	RB-6-4SS
1/2" NPT	1/4" NPT	1-1/16" NPT	7/16"	7/8"	RB-8-4B	RB-8-4SS
1/2" NPT	3/8" NPT	1-5/16" NPT	15/32"	7/8"	RB-8-6B	RB-8-6SS
3/4" NPT	1/2" NPT	1-1/16" NPT	7/16"	1-1/16"	RB-12-4B	RB-12-4SS
3/4" NPT	1/2" NPT	1-9/16" NPT	5/8"	1-1/16"	RB-12-8B	RB-12-8SS

FOR PRESSURES BETWEEN 3000 PSI AND 6000 PSI, A STAINLESS-STEEL FITTING IS REQUIRED

HIGH PRESSURE FITTINGS

BRASS FITTINGS

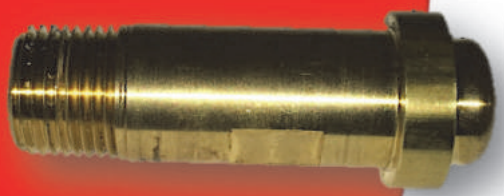
Application:
High pressure piping.

Socket Coupler Nut

Part Number	Size
CES111RH	1”-11-1/2 NPS-RH
CES112LH	1”-11-1/2 NPS-LH



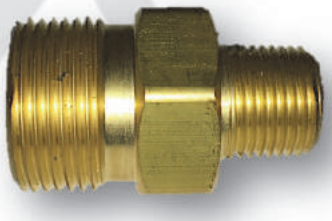
Socket Coupler Nipple



Part Number	Size
CES114B	1/2” NPT - 2-3/4” long
CES115C	.840” shank die. -2-3/4” long

Male to Male Adapter

A (Male)	A (FEMALE)	C (Ref.)	Adapter
½” NPT	1” - 11-1/2 NPS - LH	2-3/8”	CESAL7
½” NPT	1” - 11-1/2 NPS - RH	2-3/8”	CESHA8
3/4” NPT	1” - 11-1/2 NPS - LH	2-9/16”	CESHL11
3/4” NPT	1” - 11-1/2 NPS - RH	2-9/16”	CES4H12
1” NPT	1” - 11-1/2 NPS - RH	2-5/16”	CES8413



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HOSES AND PIGTAILS





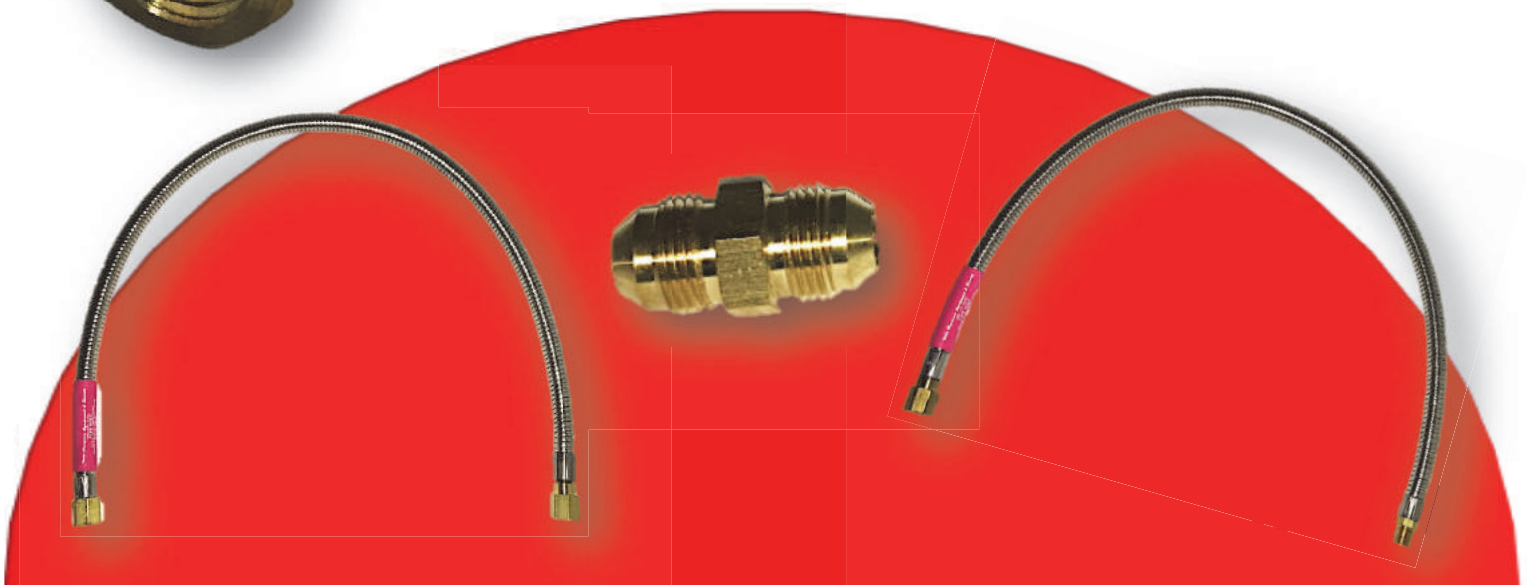


VCE offers a complete line of high quality Hoses and Pigtails for the industrial and specialty gas markets.



We offer rigid stainless steel high pressure pigtails for working pressures up to 6000 PSI. We also stock a complete line of stainless steel flexible hose assemblies for high pressure cylinder filling applications, as well as cryogenic transfer hose assemblies.





HOSES AND PIGTAILS

360 SERIES TEFLON INNERCORE STAINLESS STEEL BRAIDED PIGTAILS

Application:

The high pressure pigtail is made of PTFE inner core and stainless braided flexible hose.



360 MS SERIES PIGTAIL

Length (in.)	1/4" female NPT x 1/4" female NPT Swivel Brass fittings
12"	B360MS-12
18"	B360MS-18
24"	B360MS-24
36"	B360MS-36
48"	B360MS-48
60"	B360MS-60
72"	B360MS-72

360 FS SERIES PIGTAIL

Length (in.)	1/4" female NPT x 1/4" female NPT Swivel Brass fittings
12"	B360FS-12
18"	B360FS-18
24"	B360FS-24
36"	B360FS-36
48"	B360FS-48
60"	B360FS-60
72"	B360FS-72



3600 PSI WORKING PRESSURE FOR ADDITIONAL STENGTH AND SAFETY

HOSES AND PIGTAILS

TH 295 SERIES LIQUID NITROGEN/ ARGON SERVICE

Application:
Used to transfer cryogenic liquids.

STAINLESS STEEL ARMOR GUARD

- 1000 psi working pressure operating pressure
- 5000 psi minimum burst pressure
- -450°F to +1500°F operating temperature

Length (in.)	1/2" Flare Nut x 1/2" Flare Nut CGA 295 x CGA 295
36"	TH295-36
48:	TH295-48
60"	TH295-72
72"	TH295-72
96"	TH295-96
120"	TH295-120
144"	TH295-144

TH 440 SERIES LIQUID OXYGEN SERVICE

Length (in.)	1/2" Flare Nut x 1/2" Flare Nut CGA 295 x CGA 295
36"	TH295-36
48:	TH295-48
60"	TH295-72
72"	TH295-72
96"	TH295-96
120"	TH295-120
144"	TH295-144

ALL HOSES COME WITH FULL LENGTH ARMOR GUARD



LANCE
LAN-295

Application:
Made from high pressure stainless steel. Available in various lengths for liquid Dewar Filling.



HOSES AND PIGTAILS

90° ELBOW EXTENSION

Application:

Connects to liquid cylinder to reduce hose strain and simplify hose use when trans-filling. Prevents cylinder abrasion, kinking and over bending the hose.

Part No.	Male Pipe (NPT) x Male Flare
ELX-295	1/2' Flare for CGA 295 Nitrogen/Argon
ELX-440	5/8' Flare for CGA 440 Oxygen



CRYOGENIC PHASE SEPERATORS

Application:

A sintered bronze filter which eliminates the turbulence encountered when transferring cryogenic liquids into an open dewar.

- **No more dangerous spilling**



Part No.	Male Pipe (NPT) x Male Flare
PS-38s	1-1/4" X 1" O.D. (3/8" NPT)
PS-18	1-1/4" X 1/2" O.D. (1/8" NPT)

HOSES AND PIGTAILS

FLARE UNION ELBOW

Part No.	Male Pipe (NPT) x Male Flare
LFA-295	1/2’ Male Flare x 1/2” Male Flare
LFA-440	5/8’ Male Flare x 5/8” Male Flare



Application:

Oxygenic hose adapter.

FLARE MALE CONNECTOR

Part No.	Male Pipe (NPT) x Male Flare
MFA-14-295	1/4” Male NPT x 1/2” Flare
MFA-38-295	3/8” Male NPT x 1/2” Flare
MFA-12-295	1/2” Male NPT x 1/2” Flare
MFA-14-440	1/4” Male NPT x 5/8” Flare
MFA-38-440	3/8” Male NPT x 5/8” Flare
MFA-12-440	1/2” Male NPT x 5/8” Flare



HOSES AND PIGTAILS

FLARE STREET ELBOW

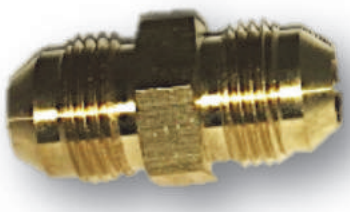
Application:
Oxygenic hose adapter.

Part No.	Male Pipe (NPT) x Male Flare
SFA-12-295	1/2” Male NPT x 1/2” Flare
SFA-12-440	1/2” Male NPT x 5/8” Flare



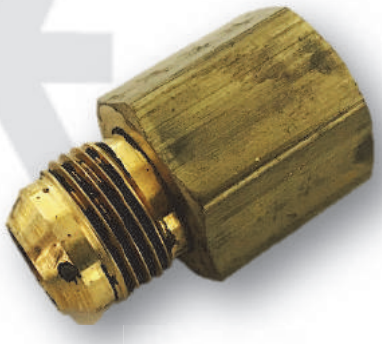
FLARE UNION

Part No.	Male Pipe (NPT) x Male Flare
UFA-295	1/2’ Male Flare x1/2” Male Flare
UFA-440	5/8’ Male Flare x 5/8” Male Flare



FLARE FEMALE CONNECTOR

Part No.	Male Pipe (NPT) x Male Flare
FFA-14-295	1/4” Male NPT x 1/2” Flare
FFA-38-295	3/8” Male NPT x 1/2” Flare
FFA-12-295	1/2” Male NPT x 1/2” Flare
FFA-14-440	1/4” Male NPT x 5/8” Flare
FFA-38-440	3/8” Male NPT x 5/8” Flare
FFA-12-440	1/2” Male NPT x 5/8” Flare



HOSES AND PIGTAILS

COPPER FILL CONNECTION GASKETS



Part No.	Description
FG-150-T	1/12” Teflon
FG-200-T	2” Teflon
FG-250-T	2-1/2” Teflon
FG-300-T	3” Teflon

FILL BLOCK CLAMP ASSEMBLY



FILL BLOCK CLAMP ASSEMBLY



Part No.	Description
FG-150-C	1/12” Copper
FG-200-C	2” Copper
FG-250-C	2-1/2” Copper
FG-300-C	3” Copper

TEFLON FILL CONNECTION GASKETS



Part No.	Description
FBC-150-TCL	1/12” Clamp
FBC-200-TCL	2” Clamp
FBC-250-TCL	2-1/2” Clamp
FBC-300-TCL	3” Clamp

HOSES AND PIGTAILS

FILLING SLEEVE



Part No.	Description
AR-150-PC	1-1/2” Argon
AR-250-PC	2-1/2” Argon
NI-150-PC	1-1/2” Nitrogen
NI-250-PC	2-1/2” Nitrogen
OX-150-PC	1-1/2” Oxygen
OX-200-PC	2” Oxygen
OX-300-PC	3” Oxygen

LOCKING CAP



Part No.	Description
AR-150-DP	1-1/2” Argon
AR-250-DP	2-1/2” Argon
NI-150-DP	1-1/2” Nitrogen
NI-250-DP	2-1/2” Nitrogen
OX-150-DP	1-1/2” Oxygen
OX-200-DP	2” Oxygen
OX-300-DP	3” Oxygen

Part No.	Description
AR-150-FS	1-1/2” Argon
AR-250-FS	2-1/2” Argon
NI-150-FS	1-1/2” Nitrogen
NI-250-FS	2-1/2” Nitrogen
OX-150-FS	1-1/2” Oxygen
OX-200-FS	2” Oxygen
OX-300-FS	3” Oxygen

PRESSURE CAP



Part No.	Description
AR-150-LC	1-1/2” Argon
AR-250-LC	2-1/2” Argon
NI-150-LC	1-1/2” Nitrogen
NI-250-LC	2-1/2” Nitrogen
OX-150-LC	1-1/2” Oxygen
OX-200-LC	2” Oxygen
OX-300-LC	3” Oxygen

DUST PLUG



HOSES AND PIGTAILS

DUST CAP

Part No.	Description
AR-150-DC	1-1/2” Argon
AR-250-DC	2-1/2” Argon
NI-150-DC	1-1/2” Nitrogen
NI-250-DC	2-1/2” Nitrogen
OX-150-DC	1-1/2” Oxygen
OX-200-DC	2” Oxygen
OX-300-DC	3” Oxygen



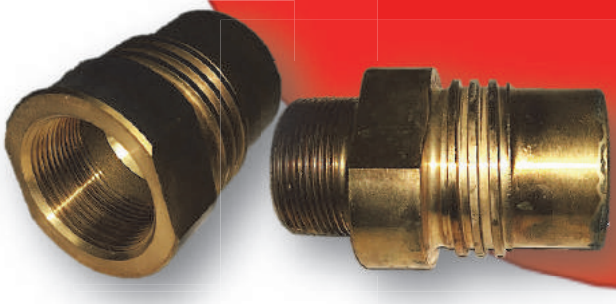


FILL BLOCK WITH LUGS

Part No.	Description
FPT-AR-150-FBL	1-1/2” Argon
FPT-AR-250-FBL	2-1/2” Argon
FPT-NI-150-FBL	1-1/2” Nitrogen
FPT-NI-250-FBL	2-1/2” Nitrogen
FPT-OX-150-FBL	1-1/2” Oxygen
FPT-OX-200-FBL	2” Oxygen
FPT-OX-300-FBL	3” Oxygen

FILL BLOCK WITH FLATS

Part No.	Description
FPT-AR-150-FBF	1-1/2” Argon
FPT-AR-250-FBF	2-1/2” Argon
FPT-NI-150-FBF	1-1/2” Nitrogen
FPT-NI-250-FBF	2-1/2” Nitrogen
FPT-OX-150-FBF	1-1/2” Oxygen
FPT-OX-200-FBF	2” Oxygen
FPT-OX-300-FBF	3” Oxygen



HOSES AND PIGTAILS

CRYOGENIC BULK LIQUID FILL HOSES

FH SERIES CRYOGENIC FILL HOSE

Size	120 inches	144 inches	180 inches
1”	FH-1-120	FH-1-144	FH-1-180
1/14”	FH-114-120	FH-114-144	FH-114-180
1-1/2”	FH-112-120	FH-112-144	FH-112-180
2”	FH-2-120	FH-2-144	FH-2-180
2-1/2”	FH-212-144	FH-212-144	FH-212-180
3”	FH-3-144	FH-3-144	FH-3-180

Application:

Flexible vibration arrestors used to reduce vibration from pumping activity to safe levels. Vibration is absorbed from being transferred to other parts of the pumping system.

- Inner core made of seamless corrugated bronze
- Outer braid made of high tensile bronze wire
- Protected from elongation, expansion, puncture and abrasive wear
- Copper tube ends are braze welded into a strong integral assembly
- Cleaned and pressure tested

ORDER SPECIFICATIONS

1.

Hose Series
FH Type 321 OR Stainless Steel

2.

Size	
1	1”
114	1-1/4”
112	1-1/2”
2	2”
212	2-1/2”
3	3”

3.

Length	
120	120 inches
140	140 inches
180	180 inches

4.

Fitting Style	
NI	Nitrogen
AR	Argon
OX	Oxygen

5.

Option	
AG:	Armor Guard
OX:	Oxygen Cleaned & Capped



Example Part Number:

FH-112-180-AR-OX

- FH — Hose Series — 1.
- 112 — Size — 2.
- 180 — Length — 3.
- AR — Fitting Style — 4.
- OX — Option — 5.

HOSES AND PIGTAILS

STAINLESS STEEL FLEXIBLE CRYOGENIC PUMP CONNECTORS

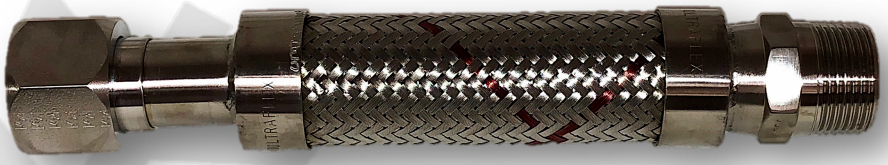


Application:
Used to reduce or suppress vibration on pump installations.

Part Number	Tube O.D.	Overall Length
TH-295-36PC	1/2" O.D.	36" OAL
TH-440-36PC	5/8" O.D.	36" OAL
TH-34-36PC	3/4" O.D>	36" OAL

*CUSTOM HOSE ASSEMBLIES AVAILABLE UPON REQUEST

STAINLESS STEEL CRYOGENIC FLEXSORBERS



Part Number	Description
FH-1-12 MF	1" x 12" ss 1" mpt x 1" JIC flare
FH-1-18 MF	1" x 18" ss 1" mpt x 1" JIC flare
FH-1-24 MF	1" x 24" ss 1" mpt x 1" JIC flare
FH-1-36 MF	1" x 36" ss 1" mpt x 1" JIC flare

*1" mpt x 1" mpt and 1" JIC x 1" JIC also available

COPPER CRYOGENIC FLEXSORBERS

To Fit Copper Tube

Part No.	Actual OD	Nominal ID	Flexible Hose ID	Overall Length	Working Pressure
FX-12	1/2"	3/8"	3/8"	9"	300 psig
FX-58	5/8"	1/2"	1/2"	9-3/4"	300 psig
FX-34	3/4"	5/8"	5/8"	10"	300 psig
FX-78	7/8"	3/4"	3/4"	11-1/2"	300 psig
FX-118	1-1/8"	1"	1"	13"	300 psig
FX-158	1-5/8"	1-1/2"	1-1/2"	17"	300 psig



FX-118

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OXYGEN SAFE LUBRICANTS





Lubricants, greases, pastes, sealants and tape for cryogenic and compressed gas applications. Oxy-safe products have been developed as commercially economical industrial materials for cryogenic medical and compressed gas applications especially for oxygen and LOX.





OXYGEN SAFE LUBRICANTS

Application:

Solutions for critical and demanding applications where no flammability, compatibility with oxygen and resistance to aggressive chemicals are essential.

OC FIVE



OC SEVEN



OC FIVE paste & OC SEVEN grease are blended formulations consisting of PTFE particles and Halocarbon Oil, producing a superior sealant that is chemically inert and environmentally safe. Both products have been tested and certified by BAM for gaseous and liquid oxygen service. They can be used in High Vacuum 10^{-7} Torr applications where exposure to corrosive gases is probable.

They are superior lubricants that provide leak tight sealing in a wide range of vacuum requirements. Their properties remain unaltered over wide temperature ranges-from cryogenic through thermally stable to +450°F. Both are non-flammable, non-migrating, non-toxic, odorless and waterproof as well as anti-corrosive, anti-galling, anti-seize, dielectric and lubricating. Cost effective for liquid oxygen, liquid nitrogen, cryogenic and vacuum applications to prevent and reduce component and equipment failures, maintenance or downtime.

Available in 2 oz. (57 gram) and 16 oz. (454 gram) jars with resealable lid for ease of use and storage

OC THREE



OC THREE PTFE Paste & Joint Thread Sealer is an aqueous based PTFE formulation. It is a homogenous white paste that penetrates thread convolutions more effectively, and more safely than PTFE tape. Tested, approved and certified by BAM for gaseous and liquid oxygen service. Use in extreme temperatures (-400°F to +500°F) and Mid Vacuum Specifications to 10^{-3} Torr. OC THREE is especially capable for sealing oxyen and acetylene cylinder valves. Easy to apply from its 4 oz. (113.4 gram) squeeze tube with extended nipple and resealing cap.

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OXYGEN SAFE LUBRICANTS

OXY-8-GREASE

Size	Desciption	Part Number
1 pound	Jar	8-G
100 grams	Jar	OXY-8G-100J
100 grams	Plunger	OXY-8G-100PL

Recommended for oxygen and nitrous oxide service – valves, pumps, motors, gears, bearings, LOX systems. Lubricates in gas, liquid or vacuum service. 1 lb. jar, 100 gram plunger, 100 gram jar.

OXY-8-PASTE

Size	Desciption	Part Number
1 pound	Jar	OXY-8-P
100 grams	Jar	OXY-8P-100J
100 grams	Plunger	OXY-8P-100PL

Recommended for use as a joint/thread sealer in oxygen gas and LOX systems. 100 gram plunger, 100 gram jar, 1 pound

Application:

Oxy-safe products have been developed as commercially economical industrial materials for cryogenic medical and compressed gas applications especially for oxygen and LOX.



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OXYGEN SAFE LUBRICANTS



FOMBLIN GREASE UT-18

Application:
Recommended for oxygen and nitrous oxide service. Excellent properties for lubricating valve seat threads on master control and cylinder manifold valves. Superior lubrication in any gas application - nitrogen, argon, helium, CO2. 3.5 oz. tube

KRYTOX GREASE KRYG-1

Application:
Recommended for lubrication of pump motors, gears and bearings. Ideal for packing cryogenic and high pressure pump bearings. 1 lb. jar, 1.75 lb. tube



KRYG-1



KRYG-1.75

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PIPE MOUNTING HARDWARE

VCE standard series clamps will accommodate pipe, tube, and hose sizes ranging from 1/8” to 2” Clamps for intermediate and metric sizes can be furnished on request







PIPE MOUNTING HARDWARE









PIPE MOUNTING HARDWARE

Application:
Designed to bracket and secure tube and pipe



PIPE CLAMP

Part Number	Pipe Size (Nominal Diameter)	O.D.
PC-18	1/8”	.405
PC-14	1/4”	.540
PC-38	3/8”	.675
PC-12	1/2”	.840
PC-34	3/4”	1.050
PC-1	1”	1.315
PC-114	1-1/4”	1.660
PC-112	1-1/2”	1.900
PC-2	2”	2.375

ALSO AVAILABLE FOR ORDER IN STAINLESS STEEL BY ADDING ‘SS’ TO THE END OF THE DESIRED PART NUMBER

TUBE CLAMP

Part Number	Tube size (Actual Diameter)
TC-14	1/4”
TC-38	3/8”
TC-12	1/2”
TC-58	5/8”
TC-34	3/4”
TC-78	7/8”
TC-1	1”
TC-118	1-1/8”
TC-114	1-1/4”
TC-112	1-1/2”
TC-134	1-3/4”
TC-2	2”

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PIPE MOUNTING HARDWARE

VCE TWIN SERIES CLAMP ASSEMBLIES



Part Number	Tube size (Actual Diameter)
TWC-18	1/8”
TWC-14	1/4”
TWC-38	3/8”
TWC-12	1/2”
TWC-58	5/8”
TWC-34	3/4”
TWC-78	7/8”
TWC-1	1”
TWC-114	1-1/4”
TWC-112	1-1/2”
TWC-158	1-5/8”



Application:
The twin series will support multiple pipe or tube parallels and provide a closer center distance. Sizes from 1/8” to 1-5/8” O.D.

PIPE MOUNTING HARDWARE

UNISTRUT CLAMPS

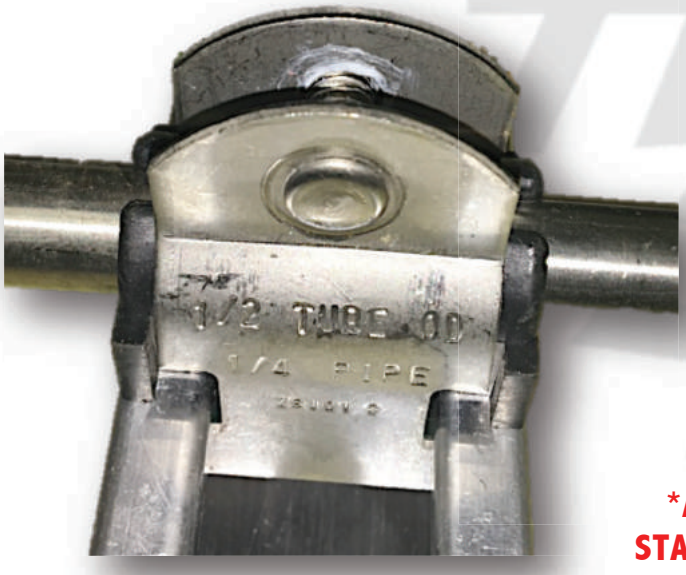


Application:

Secures pipe runs to any flat surface, providing total load distribution allowing the U-BOLT to become a full-contact hanger instead of a knife edge.

Proven to battle the effects of vibration, shock, surge, electrolysis, abrasion, expansion and contraction.

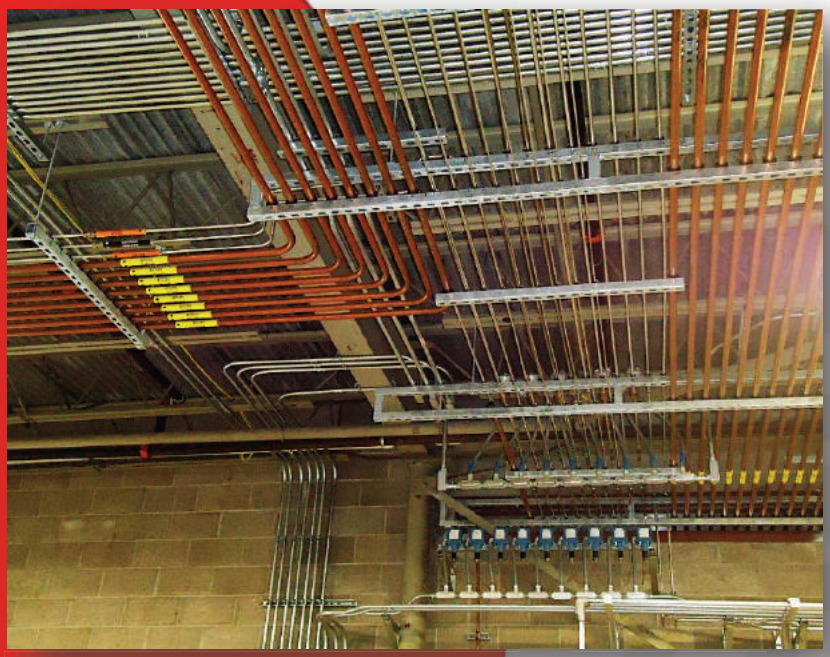
TCC CUSH-A-CLAMP



Part Number	Tube size (Actual Diameter)
TCC-14	1/4”
TCC-38	3/8”
TCC-12	1/2”
TCC-58	5/8”
TCC-34	3/4”
TCC-78	7/8”
TCC-1	1”
TCC-118	1-1/8”
TCC-114	1-1/4”
TCC-112	1-1/2”
TCC-134	1-3/4”
TCC-2	2”

ALSO AVAILABLE FOR ORDER IN STAINLESS STEEL BY ADDING ‘SS’ TO THE END OF THE DESIRED PART NUMBER

PIPE TUBING



VCE stocks a large inventory of stainless steel, monel and copper tubing.

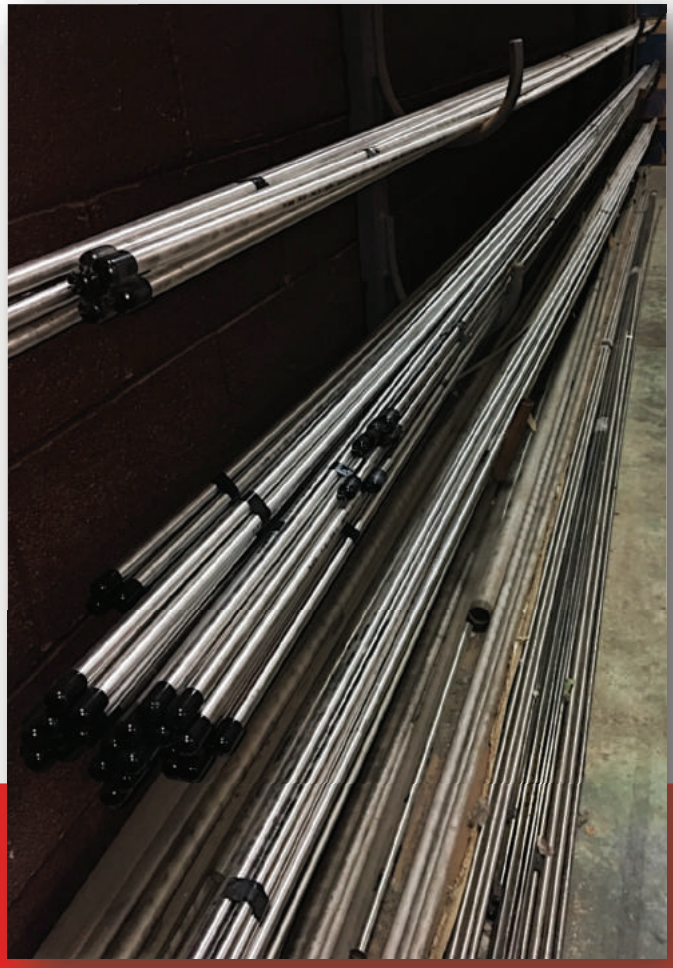
We also stock a large inventory of high pressure brass and stainless steel pipe.





PIPE TUBING

STAINLESS STEEL TYPE 304 TUBING



Part Number	Wall Thickness	Size
SST-18-035	.035”	1/8”
SST-18-049	.049”	1/8”
SST-14-035	.035”	1/4”
SST-14-049	.049”	1/4”
SST-14-065	.065”	1/4”
SST-38-035	.035”	3/8”
SST-38-049	.049”	3/8”
SST-38-065	.065”	3/8”
SST-12-049	.049”	1/2”
SST-12-065	.065”	1/2”
SST-12-083	.083”	1/2”
SST-58-035	.035”	5/8”
SST-58-049	.049”	5/8”
SST-58-065	.065”	5/8”
SST-34-049	.049”	3/4”
SST-34-065	.065”	3/4”

Other sizes available upon request

MONEL TYPE 400

Part Number	Wall Thickness	Size
MT-18-035	.035”	1/8”
MT-18-049	.049”	1/8”
MT-14-035	.035”	1/4”
MT-14-049	.049”	1/4”
MT-14-065	.065”	1/4”
MT-38-035	.035”	3/8”
MT-38-049	.049”	3/8”
MT-38-065	.065”	3/8”
MT-12-049	.049”	1/2”
MT-12-065	.065”	1/2”
MT-12-083	.083”	1/2”
MT-58-035	.035”	5/8”
MT-58-049	.049”	5/8”
MT-58-065	.065”	5/8”
MT-34-049	.049”	3/4”
MT-34-065	.065”	3/4”

Application:
High pressure piping.

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SWITCH/ ELECTRONIC COMPONENTS





Veite Cryogenic Equipment stocks a wide variety of electronic equipment to keep your fill plant running smoothly.



SWITCH/ ELECTRONIC COMPONENTS

LOW TEMPERATURE CUT-OFF SWITCH

Application:

Used to shut down the system if a critical temperature is reached.

The cut-off switch is n electromechanical device which opens and closes contacts to control the flow of electrical current in response to temperature change.

- 3/8” O.D. by 2-7/8”
- 6ft copper capillary
- -120°F to +100°F Set Point Range
- 150°F Max. Temp.



- UL listed and cUL certified
- CE compliant to low voltage directive and pressure equipment directive
- Optional ATEX or GOST intrinsic safety compliance
- Single switch (SPDT or DPDT) output
- Welded stainless steel diaphragm models
- Ultra-low pressure “wc models”
- Optional sensor material for corrosive media
- Polished stainless steel flush mount connection
- Pump switch models with wide adjustable deadband

SWITCH/ ELECTRONIC COMPONENTS

PRESSURE SWITCH



Application:

A pressure switch is a form of switch that closes an electrical contact when a certain set pressure has been reached. It can be designed to make contact on either pressure rise or pressure fail.

Number	psi	bar
490	5 to 30	0,3 to 2,1
491	10 to 100	0,7 to 6,9
492	15 to 300	1,0 to 20,7
493	20 to 500	1,4 to 34,5
494	80to 1700	5,5 to 117,2

UNITED ELECTRIC CONTROLS EXPLOSION PROOF PRESSURE SWITCH

Application:

Offers a variety of pressure, vacuum, differential pressure and temperature ranges, as well as process connections, wetted materials and sensor types. ranges, process connections and electrical ratings can be quickly adapted because of its flexible platform.

Meets hazardous location requirements through worldwide approvals and certifications, where potentially explosive or highly corrosive atmospheres exist.



NEED PART NUMBER HERE

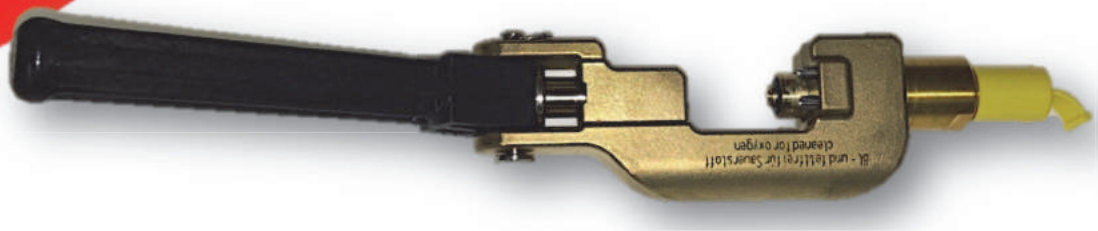
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QUICK CONNECT

Veite Cryogenic Equipment stocks a wide variety of safe and efficient WEH™ Quick Connects at competitive pricing. They are available for a large number of valve configurations-having female or male treads, Pin-Index systems, with or without residual pressure valve and correspond to nearly all national cylinder standards. The Quick Connects/Disconnects are ideally suited for repeated connections to media lines without wrenches and tapes.

- **Safe & pressure-tight connections**
- **Safety peg prevents accidental disconnection under pressure**
- **Connection in seconds, without hand tightening**
- **Improved productivity and efficiency**
- **Cost savings**



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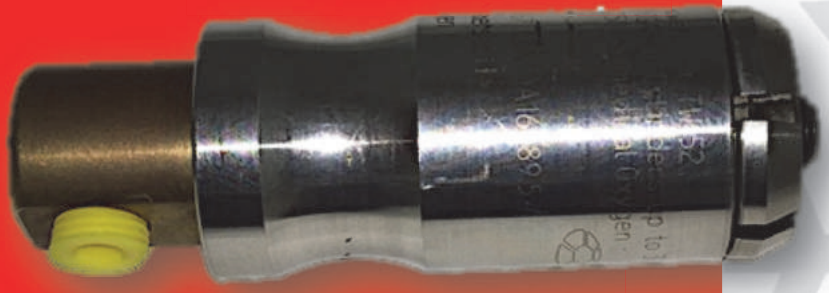
QUICK CONNECT

Application:
WEH™ Connector for medical oxygen filling series.

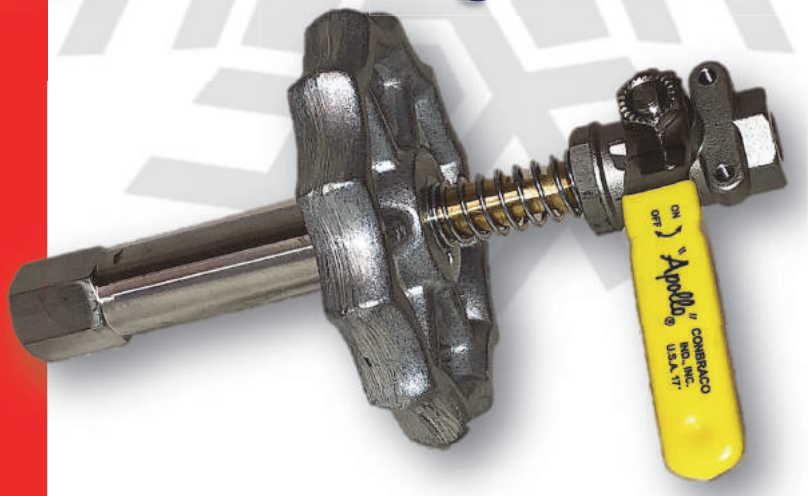
QC540



QC540M WEH™ QUICK CONNECT



QC320



QC870



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VACUUM PUMP ACCESSORIES



Veite Cryogenic Equipment stocks a wide variety of vacuum pump hardware to keep your fill plant running smoothly and to eliminate down time.





VACUUM PUMP ACCESSORIES

CPR-VPO
HALOCARBON OIL



Application:

Recommended especially for use with inert vacuum pumps. Available in 1-gallon containers.

CPR-HO
HOUGHTO SAFE VACUUM PUMP OIL



Application:

Recommended especially for use with oxygen vacuum pumps and liquid oxygen centrifugal pumps. Available in 1 quart containers.

LIQUI-VAC
VACUUM SEALANT



KS-1

Application:

Recommended especially for use on thread or machined connections. It dries transparently, sets up quickly while still remaining flexible, is resistant to most solvents and seals down to 1/10 micron. Available in 1 quart or 4oz containers.

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VACUUM PUMP ACCESSORIES

KC-15 VACUUM MAINTENANCE PARTS

Application:
KC-15 Vacuum Pump repair previous maintenance.

WE STOCK ALL OF THE COMPONENTS YOU NEED TO MAINTAIN YOUR KINNEY™ VACUUM PUMPS



KC-15-SG
Sight Glass Kit



KC-15-SS
Shaft Seal Assembly



KC-15-DV
Discharge Valve



KC-15-FG
Face Gasket

DIMENSIONS
4" O.D.
2-3/8" I.D.
2-1/2" TALL



KC-15-FE4

DIMENSIONS
5-1/2" O.D.
3-3/4" I.D.
3-1/2" TALL



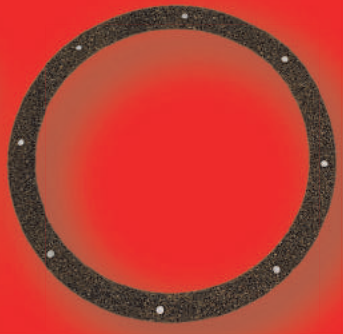
KC-15-FE

DIMENSIONS
2-1/2" O.D.
2" I.D.
3-1/2" TALL



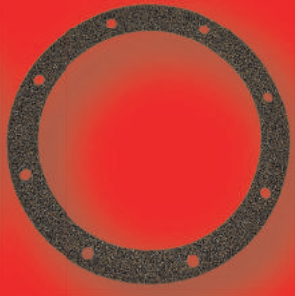
KC-15-FE3

DIMENSIONS
9-1/4" O.D.
7-3/4" I.D.



KC-15-CG

DIMENSIONS
7-7/8" O.D.
6-1/8" I.D.



KC-15-TG

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VACUUM PUMP ACCESSORIES

DIGITAL VACUUM METER VT-6A

Application:

Fully automatic, continuous-reading instruments for unlimited vacuum application.



- Compatible with calibration reference tubes
- 0-1 vdc output (non-linear)
- Dial face available in Torr, mBar, or Pa
- Ranges between 0 and 1000 mTorr

VACUUM GAUGE TUBE TYPE DV-6R



Application:

VCE vacuum tubes are rugged, sensitive and accurate. The standard metal tubes are constructed of nickel plated steel with plastic bases color coded to prevent mixup. All vacuum gauge tubes are matched and interchangeable within their respective ranges. The heavy duty gauge tube has a gold plated hermetic seal base with model housing for maximum corrosion resistance. They connect to the vacuum system by means of a standard 1/8" NPT male pipe thread. Vacuum tubes should be mounted vertically with the open end down.

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VAPORIZERS





CRYOGENIC VAPORIZERS

- Easy installation
- Ground or curves tank mount available
- Low cost, trouble free operation
- No maintenance necessary
- Immedicate service- no heat or power needed
- Self defrosting
- Internal tubing, providing maximum strength, structural rigidity, safety and fluid compatibility
- Low pressure series 500 psi max. working pressure
- High pressure series 4500 osi nax. working pressure
- Ultra-high pressure series 10,000 psi max. working pressure





Application:

Ambient air vaporizers are designed for versatile, economical, completely automatic service. They utilize the natural convective heat from surrounding air to efficiently convert cryogenic liquids to gas. This process does require supplementary heat source or power supply. The modular design can easily and economically supplement your existing vaporization equipment and is used in all VCE engineered turn-key pumping stations.

ELECTRIC CO2 VAPORIZERS

- Replaceable heating elements
- Weather proof cabinets
- Complete separation of electrical and plumbing systems
- Accurate temperature control
- Capacities to 200kw in a single cabinet
- 220 or 440 volt electric source

Application:

Electric vaporizers are used to vaporize liquid CO2 to a gseous state by raising the temperature of the liuid until it becomes a gas.

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VALVES

Veite Cryogenic Equipment stocks a large inventory of cryogenic and compressed gas valves for delivery at competitive prices.



Manufacturers Include:

- Goddard™
- Jamesbury™
- Generant™
- Rego™
- Superior™
- Ceodeux™
- Dragon™
- Sherwood™
- Herose™
- Nibco™
- Powell™



Manifold Valve

CYLINDER/MANIFOLD SHUT-OFF VALVES

Part Number	Gas Service	CGA Outlet	Outlet Thread Size	NGT Inlet Thread
TV 2861-XX	Med Breath Mix	280	.745-14 NGO RH EXT	3/4
TV 3241-XX	Carbon Dioxide	320	.825-14 NGO RH EXT	1/2
TV 3261–XX	Carbon Dioxide	320	.825-14 NGO RH EXT	3/4
TV 3281–XX	Carbon Dioxide	320	.825-14 NGO RH EXT	1
TV 3565-XX	Hydrogen	350	.825-14 NGO LH EXT	3/4
TV 3585-XX	Hydrogen	350	.825-14 NGO LH EXT	1
TV 5061-XX	Med Gas Mix	500	.885-14 NGO RH EXT	3/4
TV 5441-XX	Oxygen 0-3000 PSIG at 120°F	540	.903-14 NGO RH EXT	1/2
TV 5461-XX	Oxygen 0-3000 PSIG at 120°F	540	.903-14 NGO RH EXT	3/4
TV5481 -XX	Oxygen 0-3000 PSIG at 120°F	540	.903-14 NGO RH EXT	1
TV 57761-XX	Oxygen 3001-4000 PSIG at 120°F	577	.903-14 NGO RH EXT	3/4
TV 55561-XX	Liquid Withdrawal of Butane/Propane	555	.903-14 NGO RH EXT	3/4
TV 58411-XX	Inert Gases	580	.695-14 NGO RH EXT	1/2
TV 5861–XX	Inert Gases	580	.695-14 NGO RH EXT	3/4
TV 5881–XX	Inert Gases	580	.695-14 NGO RH EXT	1
TV 6861-XX	Inert Gases at 4001-5500 PSIG at 120°F	680	1.045-14NGO RH EXT	3/4
TV 70161-XX-24	Oxygen at 4001-5500 PSIG at 120°F	701	1.103-14 NGO RH EXT	3/4 24 Threads Over
TV 70365-XX	Hydrogen at 4001-5500 PSIG at 120°F	703	1.125-14 NGO LH EXT	3/4
TV 32641 -XX	Nitrous Oxide	326	.825-14 NGO RH EXT	1/2
TV 32661-XX	Nitrous Oxide	326	.825-14 NGO RH EXT	3/4
TV 32681-XX	Nitrous Oxide	326	.825-14 NGO RH EXT	1
TV 5941-XX	Air Sulphur Hexafluoride	590	.965-14 NGO LH EXT	1/2
TV 5961–XX	Air Sulphur Hexafluoride	590	.965-14 NGO LH EXT	3/4
TV 5981-XX	Air Sulphur Hexafluoride	590	.965-14 NGO LH EXT	1
TV 34641-XX	Air	346	.825-14 NGO RH EXT	1/2
TV 34661-XX	Air	346	.825-14 NGO RH EXT	3/4
TV 34681-XX	Air	346	.825-14 NGO RH EXT	1
TV 34761-XX	Air at 3001-5500 PSIG at 120°F	347	.825-14 NGO RH EXT	3/4
TV 67761 -XX	Inert Gases at 5501-7500 PSIG at 120°F	677	1.030-14 NGO LH EXT	3/4
TV 69565-XX	Hydrogen at 3001-5500 PSIG at 120°F	695	1.045-14 NGO LH EXT	3/4



Cylinder Valve

BRONZE GLOBE VALVE

Application:
Shut-off valve used for industrial piping applications.



- 600 psi maximum operating pressure
- Bronze body, seat disc, and disc holder
- Also available with solder/ sweat connections

Part Number	Description
GL-302-14	¼" NPT Globe Valve
GL-302-38	3/8" NPT Globe Valve
GL-302-12	½" NPT Globe Valve
GL -302-34	¾" NPT Globe Valve
GL-302-1	1" NPT Globe Valve
GL-302-112	1-1/2" NPT Globe Valve
GL-302-2	2" NPT Globe Valve

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HIGH PRESSURE VALVES

GENERANT™



Application:

High pressure gas control valve used for gas cylinder fill plants, manifold and piping system applications.

HIGH PRESSURE VALVES

SHERWOOD™ 430C

- Designed specifically for all high pressure compressed gas manifold piping applications.
- 6000 psi working pressure (non-corrosive), with the exception of oxygen which is 4840 psi at 70°F maximum. Forged brass body with brass trim
- KEL-F™ seat and Teflon packing
- O-ring moisture seal on stem



"Controlled flow" lower stem and body seat

Part Number	Description	Outlet Connection
430C-F	1"-11 ½" NPSR.H (male)	1"-11 ½" NPS R.H. (male)
430C-M	½" NPT (female)	½" NPT (female)
430C-MS	½" Pipe Socket Weld	½" Pipe Socket Weld
430C-N	¾" NPT (female)	¾" NPT (female)
430C-NS	¾" Pipe Socket Weld	¾" Pipe Socket Weld
430C-M	½" Pipe Socket Weld	½" NPT (female)
430C-N	¾" Pipe Socket Weld	¾" NPT (female)
430CX9	1"-11 ½" NPS R.H (male)	½" NPT (female)
430CX10	1"-111/2" NPS L.H. (male)	1"-11 ½" NPS L.H. (male)

Application:

High pressure shut off valve designed for heavy duty use on compressed gas manifold systems, tube trailers and piping applications.



RKS-430C

HIGH PRESSURE VALVES

REGO

Metal Seat Option

Application:
High pressure shut off valve designed for heavy duty use on compressed gas manifold systems, tube trailers and piping applications.



Displayed with optional panel mouth

Soft Seat	Metal Seat	Inlet Connection	Outlet Connection	Height A	Height B	Handwheel Width C
9560A	9560CA	1/2" F. NPT	1/2" F. NPT	*6.19" for panel mount version	3.25"	5.5"
9560B	9560CB	3/4" F. NPT	3/4" F. NPT	*6.19" for panel mount version	3.25"	5.5"
9560ASE	9560CASE	.843-.847	.843-.847	*6.19" for panel mount version	3.25"	5.5"
9560BSE	9560CBSE	1.053-1.057	1.053-1.057	*6.19" for panel mount version	3.25"	5.5"
9560BSE-B	9560CBSE-B	1.053-1.057	3/4" F. NPT	*6.19" for panel mount version	3.25"	5.5"

Note: "C" in part number

Soft Seat Option

Application:

The soft seat valves use a CTFE seat disc in the seat retainer to create a bubble-tight seal against a machined seat surface on the brass body.

The soft seat option is especially useful for small molecule gases like hydrogen and helium but can be used for a variety of non-corrosive industrial gases including oxygen, argon, nitrogen, carbon dioxide and acetylene.



HIGH PRESSURE VALVES

CEODEUX C14000 14



Gas Type	Oxygen, Inert Gas
Hand wheel/Handle Material:	Plastic
O-Ring Material:	EPDM
Seat Material:	PCTFE, PA
Body Material:	Brass
Helium Leak Rate at Max Pressure:	1 * 10-3 mbar l/sec (He)
Seat Orifice Size:	0.3937 in
Outlet Connection:	All Standards
Inlet Connection:	All Standards
Upper Operating Temp. Limit:	149 Farenheit
Lower operating Temp Limit:	-4 Farenheit
Upper Limit Working Pressure:	4350 psi (He)

- Permanent gas tight seal
- Robust design for trouble-free life under all service conditions
- Low torque operation
- Tested according to EN 10297

Permanent gas tight seal



REPAIR KIT

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HIGH PRESSURE VALVES

JAMESBURY™ STAINLESS STEEL BALL VALVE

Part Number	Description
BV-316SS-14	1/4” NPT BALL VALVE
BV-316SS-38	3/8” NPT BALL VALVE
BV-316SS-12	1/2” NPT BALL VALVE
BV-316SS-34	3/4” NPT BALL VALVE
BV-316SS-1	1” NPT BALL VALVE
BV-316SS-112	1-1/2” NPT BALL VALVE
BV-316SS-2	2” NPT BALL VALVE

Application:
Shut-off valves for industrial piping applications.



Stainless steel body and internals ideal for CO2 service.
*** ADD - OX TO PART NUMBER FOR OXYGEN CLEANING**
*** 2000 PSI MAXIMUM ALLOWABLE WORKING PRESSURE**

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HIGH PRESSURE VALVES

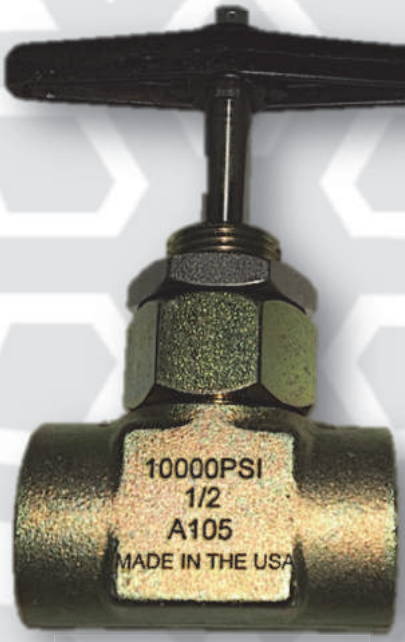
XDRV-12 DRAGON VALVES

DRGV-12

DRGV-12SS



Extended Stem
Dragon Valve



Short Stem
Dragon Valve



Stainless Steel
Dragon Valve

- Operating Pressure: 1/4-1/2 10,000 psi at -370°F
- Operating Pressure: 3/4-1 6,000 psi at -370°F
- Temperature Range: -370°F to +450°F
- Flowing Medium: Liquid Oxygen or Liquid Nitrogen
- Cleaning: Cleaned and packed for LOX per applicable specs, as specified; additional charge

Application:
High pressure shut off valve.

Sizes Available include:
1/4 FPT
3/8 FPT
1/2 FPT

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CRYOGENIC VALVES

XGLA-8412-112 1-1/2"CRYOGENIC ANGLE VALVE

- Designed for rugged, reliable service in cryogenic applications
- Cleaned for oxygen service
- Maximum allowable working pressure 600 psi
- KEL-F™ seat disc
- Stainless steel stem



Application:

Top and bottom fill valves for cryognic bulk tanks. Specifically designed for the handling of cryogeninc liquids on bulk storage tanks, transports and pipelines.

They provide positive shut off and offer a long, low-maintenace service life.

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CRYOGENIC VALVES

XGL
CRYOGENIC GLOBE VALVE

Application:

Designed for the handling of cryogeninc liquids on bulk storage tanks, transports and pipelines. They provide positive shut off and offer a long, low-maintenance service life. Available in a variety of inlet and outlet connections and stem lengths.



- Designed for rugged, reliable service in cryogenic applications
- Cleaned for oxygen service
- Maximum allowable working pressure 600 psi
- KEL-F™ seat disc
- Stainless steel stem

Part Number	Description
XGL-8404-12	½” Cryogenic globe valve
XGL-8406-34	¾” Cryogenic globe valve
XGL-8408-1	1” Cryogenic globe valve
XGL-9412-112	1 ½” Cryogenic globe valve
XGL-9412-2	2” Cryogenic globe valve

Add ‘S’ to part number for solder connections

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CRYOGENIC VALVES

XGT CRYOGENIC GATE VALVE



Part Number	Description
XGT-322-14	¼” NPT Gate Valve
XGT-322-38	3/8” NPT Gate Valve
XGT-322-12	½” NPT Gate Valve
XGT-322-34	¾” NPT Gate Valve
XGT-322-1	1” NPT Gate Valve
XGT-322-112	1½” NPT Gate Valve
XGT-322-2	2” NPT Gate Valve

Application:

Designed for rugged and reliable service operating at cryogenic temperatures. Available in a variety of inlet and outlet connections and stem lengths.

- 300 psi maximum operating pressure
- Working temperature to -350°F
- Bronze body, stainless steel stem, seat

ALSO AVAILABLE WITH SILVER BRAZE LINE CONNECTIONS

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CRYOGENIC VALVES

XBV CRYOGENIC BALL VALVE



Application:
Shut-off valve for cryogenic liquids.

Designed specifically for cryogenic service. The 3-piece construction makes the valve versatile in application, easy to install and simple to maintain. Removal of three bolts for "swing away" access allows simple disassembly for routine maintenance.

- 3-piece "swing away" design for simple routine maintenance
- 1500 psi maximum operating pressure
- Working temperature range -450° to +500°F
- Cleaned for oxygen service
- Adjustable stem seal

Part Number	Description
XBV-416-14	1/4" NPT Ball valve
XBV-416-38	3/8" NPT Ball valve
XBV-416-12	1/2" NPT Ball valve
XBV-416-34	3/4" NPT Ball valve
XBV-416-1	1" NPT Ball Valve
XBV-416-114	1 - 1/4" NPT Ball valve
XBV-416-112	1 - 1/2" NPT Ball valve
XBV-416-2	2" NPT Ball valve

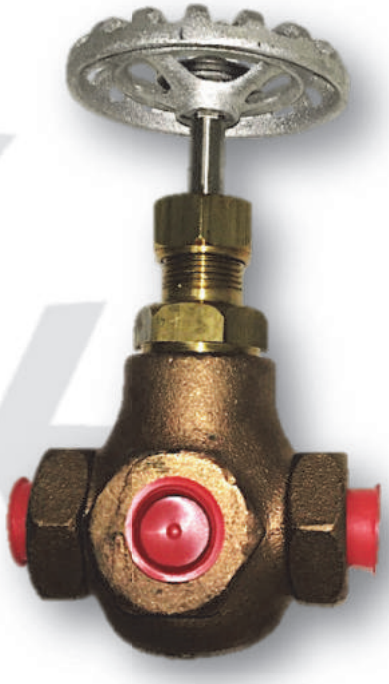
Available in Brass or 316 Stainless Steel. Connections are also available in socket weld, butt weld and solder/sweat



Part number: XBVRK-size

CRYOGENIC VALVES

CRYOGENIC CHANGEOVER DIVERTER VALVE



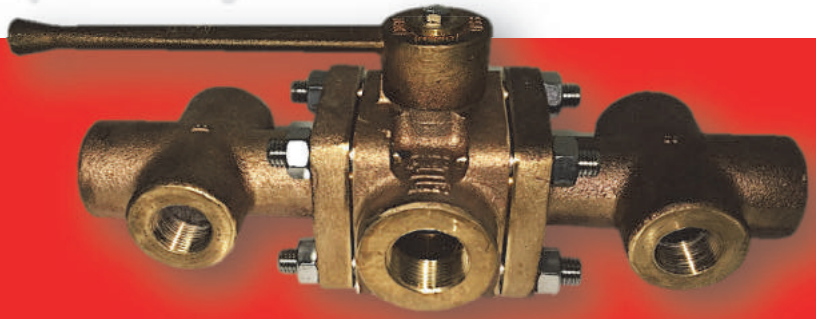
- Valve bodies are compact in design
- Stem is made of stainless steel
- Valve ports are full sized and marked for ease of installation
- Packing and gasket are made for Teflon
- Each valve comes with instructions
- Oxygen Cleaned

Part Number	Description
DIV-843-12	1/2" BRONZE DIVERTER VALVE
DIV-844-34	3/4" BRONZE DIVERTER VALVE
DIV-845-1	1" BRONZE DIVERTER VALVE

Application:

Designed for use in dual relief valve installations. This valve operates with the intake and one outlet port open at all times.

DIV-1-3-A



Application:

Designed for dual relief valves. Approved for air gases, dual and rupture disks and cryogenic liquefied gases such as oxygen, nitrogen, argon, carbon dioxide, nitrogen, carbon oxide, methane, ethane and ethylene.

Working temperature -321°f to +248°f

CRYOGENIC VALVES

SHUT OFF VALVES

Application:

These valves are designed for use on cryogenic cylinders, bulk tanks and other in-line shut off valve applications.

Extended



- Cleaned for oxygen service
- 600 psi maximum working pressure
- Working temperature range is -320° F to +165° F
- Forged brass body, stainless steel stem

Part No.	Description
XCAR-14	1/4” NPT SHUT-OFF VALVE
XCAR-38	3/8” NPT SHUT-OFF VALVE
XCAR-12	1/2” NPT SHUT-OFF VALVE

Standard



- Cleaned for oxygen service
- 600 psi maximum working pressure
- Working temperature range is -320° F to +165° F
- Forged brass body, stainless steel stem

Part No.	Description
CAR-14	1/4” NPT SHUT-OFF VALVE
CAR-38	3/8” NPT SHUT-OFF VALVE
CAR-12	1/2” NPT SHUT-OFF VALVE

CHECK VALVES

SWING CHECK VALVES



Application:

Allows fluid or gas to flow in one direction and prevent back-flow.

- 400 psi maximum working pressure
- For use with cryogenic liquids to -455°F
- Renewable KELF™ or Teflon disc and integral seats
- Also available with silver braze ends
- Also available with brass metal seat

Model No.	Size	Material	Pattern	Disc Seat	Inlet	Outlet	Pressure Rating WOG
SCV-14B	1/4”	Bronze	Angle	Teflon	1/4” NPT female	1/4” NPT female	400 psig
SCV-38B	3/8”	Bronze	Angle	Teflon	3/8” NPT female	3/8” NPT female	400 psig
SCV-12B	1/2”	Bronze	Angle	Teflon	1/2” NPT female	1/2” NPT female	400 psig
SCV-34B	3/4”	Bronze	Angle	Teflon	3/4” NPT female	3/4” NPT female	400 psig
SCV-1B	1”	Bronze	Angle	Teflon	1” NPT female	1” NPT female	400 psig
SCV-114B	1-1/4”	Bronze	Straight	Teflon	1-1/4” NPT female	1-1/4” NPT female	400 psig
SCV-112B	1-1/2”	Bronze	Straight	Teflon	1-1/2” NPT female	1-1/2” NPT female	400 psig
SCV-2B	2”	Bronze	Straight	Teflon	2” NPT female	2” NPT female	400 psig

A BRASS SEAT IS ALSO AVAILABLE FOR ORDER BY ADDING ‘BS’ TO THE END OF THE DESIRED PART NUMBER

CHECK VALVES

HASKEL HIGH PRESSURE STAINLESS STEEL CHECK VALVE

- Bodies of 316 stainless steel. All internals of 300 series stainless steel
- 1-4 psi cracking pressure
- Available oxygen/clean
- PTFE seat seal for positive bubble-tight sealing (with gas) from cryogenic to 375°F temperatures.
- Can be furnished without soft seat for higher temperature steam service



Model Number	NPT-Size	Gas
CV-28201	1/4”	10,000 psi
CV-56790	3/8”	10,000 psi
CV-28303	1/2”	10,000 psi
CV-28624	3/4”	10,000 psi
CV-28400	1”	8000 psi
CV-54080	1-1/4”	6000 psi
CV-53520	1-1/2”	5000 psi

Application:

Allows fluid or gas to flow in one direction and prevent back-flow.

CHECK VALVES

STRATA-FLOW

Part Number	Size
STV-34	3/4”
STV-1	1”
STV-114	1-1/4”
STV-112	1-1/2”
STV-2	2”
STV-212	2-1/2”
STV-3	3”

- Ideal for vacuum pipe line applications
- 200 psi working pressure, cracking pressure is 1 psi
- Silicone treated Buna-S rubber poppets open easily and are made more durable than O-rings. Being flexible, they cannot leak.
- Sensitive spring closes poppet automatically
- Prevents over pressurization of vacuum lines



Application:

Allows the flow of gas in one direction, preventing back-flow and over pressurization of vacuum lines.

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CHECK VALVES

GENERANT

CVH-501B-T-3-X

- Ideal for High Cycling Applications
- Quick acting: less than 10 milliseconds to seal from reversing flow
- No spring: valve is operated solely by the flow of the media.
- 6000 psi max working pressure
- 1/2” FPT



Application:
Allows the flow of gas in one direction, preventing back-flow.

NURPO

Application:
Allows the flow of gas in one direction, preventing back-flow and over pressurization of vacuum lines.

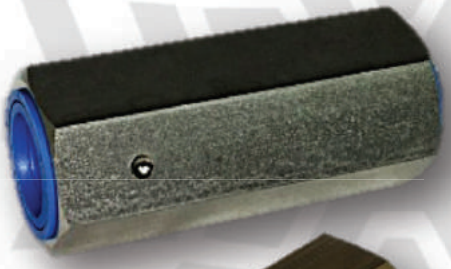


SS-8C-1

- Working Pressures to 3000 psig (206 bar)
- Temperatures to 375°F with Viton seal
- Choice of fixed cracking pressures from 1/3 to 25 psig (0.02 to 1.7 bar)
- Variety and connection sizes and styles including gageable SWAGELOK Tube Fittings, NPT, CAJON, VCR Metal Gasket Face Seal Fittings
- Variety of materials: 316 stainless steel, brass and alloy Monel
- Factory tested for crack and reseal performance

CHECK VALVES

REGO HIGH PRESSURE CHECK VALVE



Rego High Pressure Check Valve



Rego Stainless Steel High Pressure Check Valve

- One directional flow
- Large Cv for high flow capability and low-pressure drop
- Working temperature rang: -320°F+ 165° for metal seats and -20°F + 165° for soft seats
- 1 psig opening pressure
- Cleaned for use in oxygen service per CGA G-4.1

Application:

Allows the flow of gas in one direction, preventing back-flow and over pressurization of vacuum lines.

Part No.	Seating Option	Inlet/Outlet Connection FNPT A	Length B	Wrenching Hex Size C	Cv	Maximum Operating Pressure
Stainless Steel Check Valves						
CG250SS	Metal	1/4”	2-3/8”	13/16”	.87	5000 psig
CG375SS	Metal	3/8”	2-1/2”	1”	2.3	5000 psig
CG500SS	Metal	1/2”	3”	1-1/8”	3.5	5000 psig
CG750SS	Metal	3/4”	3-5/8”	1-1/2”	5.2	5000 psig
CG250SSL	Soft	1/4”	2-3/8”	13/16”	.87	250 psig
CG375SSL	Soft	3/8”	2-1/2”	1”	2.3	250 psig
CG500SSL	Soft	1/2”	3”	1-1/8”	3.5	3000 psig
CG750SSL	Soft	3/4”	3-5/8”	1-1/2”	5.2	3000 psig
Brass Body Check Valves						
CG250B	Metal	1/4”	2-3/8”	13/16”	.87	3000 psig
CG375B	Metal	3/8”	2-1/2”	1”	2.3	3000 psig
CG500B	Metal	1/2”	3”	1-1/8”	3.5	3000 psig
CG750B	Metal	3/4”	3-5/8”	1-1/2”	5.2	3000 psig
CG250BL	Soft	1/4”	2-3/8”	13/16”	.87	250 psig
CG375BL	Soft	3/8”	2-1/2”	1”	2.3	250 psig
CG500BL	Soft	1/2”	3”	1-1/8”	3.5	3000 psig
CG750BL	Soft	3/4”	3-5/8”	1-1/2”	5.2	3000 psig

SOLENOID VALVES

ASCO

Application:

VCE offers a large variety of ASCO Solenoid valves for gas and vacuum application.



HIPCO UNLOADER

Application:

High pressure pump unloader. Can be controlled by air regulator, electrical solenoid or low pressure manual valve. These diaphragm air operators provide remote automatic on/off operation of valves and can be controlled by means of an air regulator, an electrical solenoid, or a manual low pressure valve in the user's air supply line. Air inlet is 1/4" NPT.

- Oxygen cleaning available
- 15,000 psi working pressure
- Available in normally open or normally closed



SOLENOID VALVES

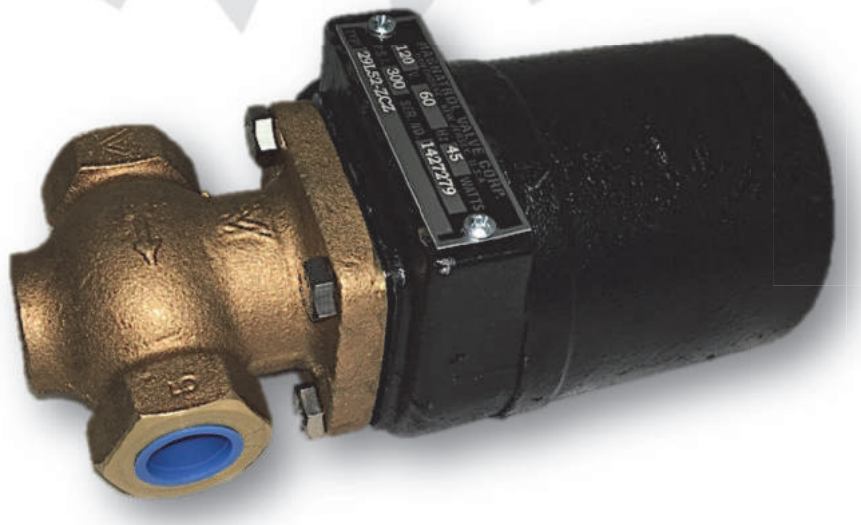
MAGNATROL CRYOGENIC SOLENOID VALVE

Application:

To control the flow of steam, liquids, hot gases and cryogenics.

Valve opens when energized and closes when de-energized. In this direct acting valve, when the coil is energized, the stem is lifted from its conical seat by the plunger. The valve operated from zero to maximum differential pressure indicated in table. Valve must be mounted in horizontal pipe with solenoid enclosure vertical.

- Sizes 1/2” to 1-1/2” available
- 300 psi working pressure
- Available in normally open or normally closed
- Good for cryogenic service



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SAFETY RELIEF VALVES

LIQUID RELIEF VALVE



Application:

Use in cryogenic fluid and gas systems for gaseous and liquid oxygen, nitrogen, argon, methane and other cryogenic fluids. Also suitable for ambient temperatures up to 165˜F.

VCE safety relief valves are designed and constructed of materials for cryogenic fluids and gases to assure safe and reliable operation. Safety relief valve opens when pressure exceeds pre-set setting. Valve opens fully relieving excess pressure and as pressure normalizes, valve closes automatically and resets firmly for a leak tight seal. VCE safety relief valves are stocked in (6) standard pressure settings and are all cleaned and packaged for LOX service.

Inlet	22/25 psig	180/200 psig	250 psig	300 psig	350 psig	400 psig
1/4” NPT	LRV-4-22	LRV-4-180	LRV-4-250	LRV-4-300	LRV-4-350	LRV-4-400
1/2” NPT	LRV-8-22	LRV-8-180	LRV-8-250	LRV-8-300	LRV-8-350	LRV-8-400
3/4" NPT	LRV-12-22	LRV-12-180	LRV-12-250	LRV-12-300	LRV-12-350	LRV-12-400

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RV SERIES CRYOGENIC SAFETY RELIEF

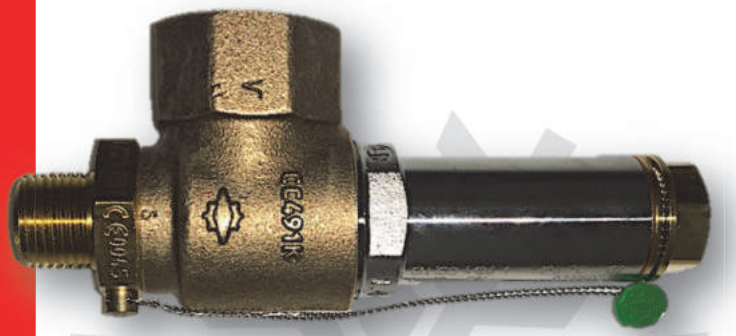
Application:
Designed to prevent over pressurization in cryogenic bulk tanks and pipelines.

Working Pressure to 600 psi
Working Temperature -321° to +365°

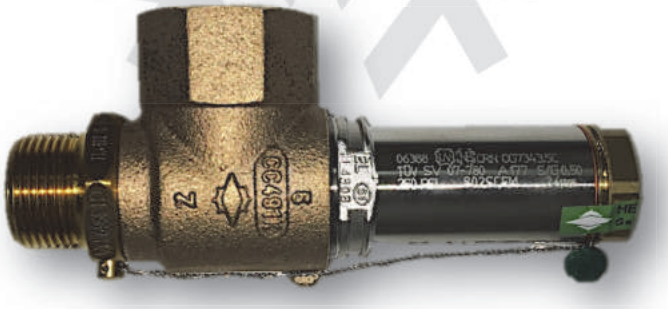
RV-34-250



RV-12-250



RV-1-250



Series	Size	Set Pressure
RV	1/2” 3/4” 1” 1-1/4” 1-1/2”	PRESSURES UP To 600 PSI

Gases: Oxygen, Nitogen, Argon, CO2

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RV SERIES CRYOGENIC SAFETY RELIEF

RV-12-3600

PARKER™ SAFETY RELIEF VALVE

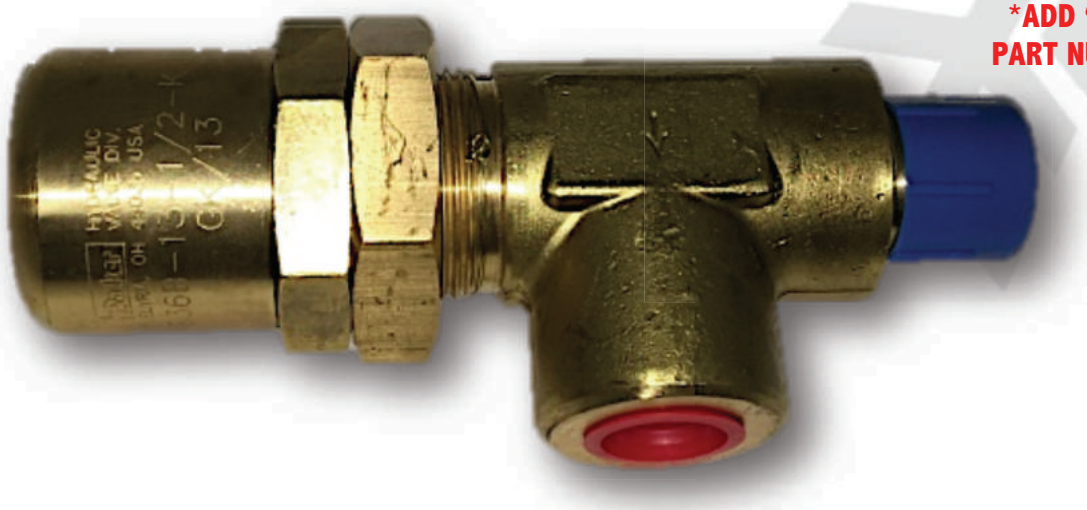
Application:

High pressure pump relief valve. Used to limit or control the pressure in a pipeline system. The Safety Relief Valve is set to a predetermined pressure to protect the equipment from being subjected to pressures that exceed their design limits.

From Stock

RV-12-850
RV-12-1000
RV-12-1200
RV-12-3600

ADD 'OXY' TO THE END OF DESIRED PART NUMBER FOR OXYGEN CLEANING



Designed and constructed of materials for cryogenic fluids and gases to assure safe and reliable operation. Safety relief valve opens when pressure exceeds pre-set setting. Valve opens fully relieving excess pressure and as pressure normalizes, valve closes automatically and resets firmly for a leak tight seal.

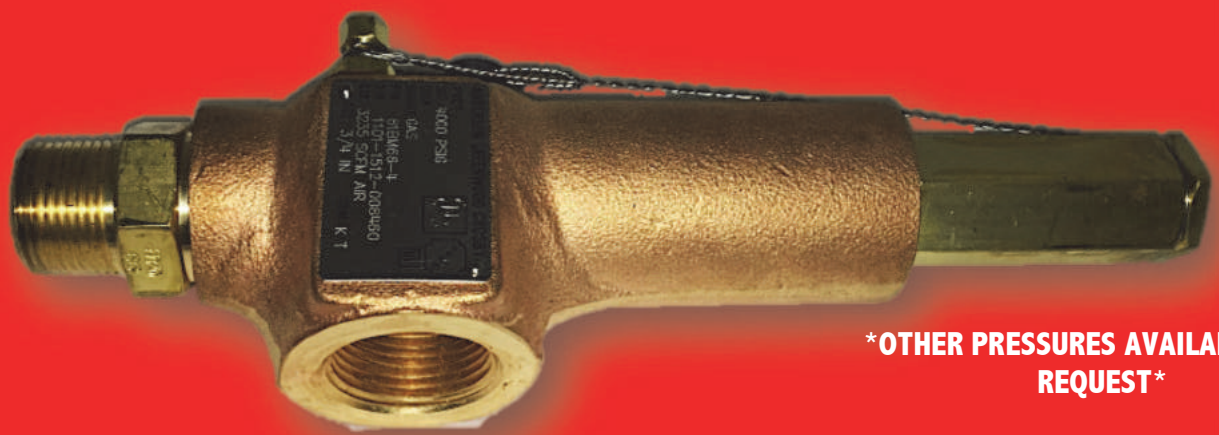
RV SERIES CRYOGENIC SAFETY RELIEF

RV-80-75-3600
ANDERSON GREENWOOD™ SAFETY RELIEF VALVE

Designed and constructed of materials for cryogenic fluids and gases to assure safe and reliable operation. Safety relief valve opens when pressure exceeds pre-set setting. Valve opens fully relieving excess pressure and as pressure normalizes, valve closes automati- cally and resets firmly for a leak tight seal.

Used to limit or control the pressure in a pipeline system. The Safety Relief Valve is set to a predetermined pressure to protect the equipment from being subjected to pressures that exceed their design limits.

Part No.	NPT Inlet	NPT Outlet	Max Pressure Setting	Body	Spring	Seat	Seal
RV80-50	1/2”	1/2”	*	Forged Brass	316SS	KELF	Teflon
RV80-75	1/2”	3/4”	*	Forged Brass	316SS	KELF	Teflon



OTHER PRESSURES AVAILABLE UPON REQUEST

SAFETY RELIEF VALVES

PARKER™ PRESSURE SAFETY RELIEF VALVE



RA-600

Application:

Used to maintain preset pressure on a CO2 cylinder filling system.

When the valve reaches a predetermined set point, it will open and allow product to bypass back to the tank.

SAFETY RELIEF VALVES

PRE-BULGED RUPTURE DISC & RUPTURE HEADS

Application:

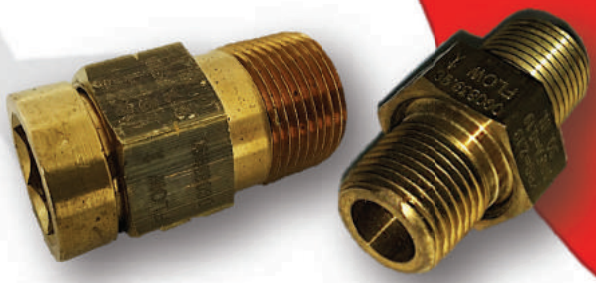
Designed to give an instantaneous and unrestricted opening to a closed pressure system at a predetermined pressure.

Their purpose is to protect a system subjected to excessive pressure buildup. It is used to protect a cryogenic bulk tank from over pressurization.



RUPTURE DISKS

Model Number	Rupture Point & Mfg Range* psig 72°	Disc Size	Disc Material	Teflon to Atmosphere
RD-35	360	1/2”	Aluminum or SS	Yes
RD-37	360	3/4”	Aluminum or SS	Yes
RD-31	360	1”	Aluminum or SS	Yes
RD-311	365	1-1/2”	316SS	No
RD-151	150	1-1/2”	Aluminum or SS	Yes
RD-411	40	1-1/2”	Aluminum or SS	Yes
RD-42	40	2”	Aluminum or SS	Yes
RD-62	60	2”	Aluminum or SS	Yes



RUPTURE HEADS

Model Number	Rupture Point & Mfg Range* psig 72°	Body	Disc Material	Inlet/Outlet
RH-36-4	360	Brass	Aluminum	1/4” NPT Male
RH-36-8	360	Brass	Aluminum	1/2” NPT Male

OTHER PRESSURES AND SIZED AVAILABLE UPON REQUEST

SAFETY RELIEF VALVES

SAFETY RELIEF VALVE



Application:

Designed and constructed of materials for cryogenic fluids and gases to assure safe and reliable operation. Safety relief valve opens when pressure exceeds pre-set setting. Valve opens fully relieving excess pressure and as pressure normalizes, valve closes automatically and resets firmly for a leak tight seal.



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VENT SILENCERS

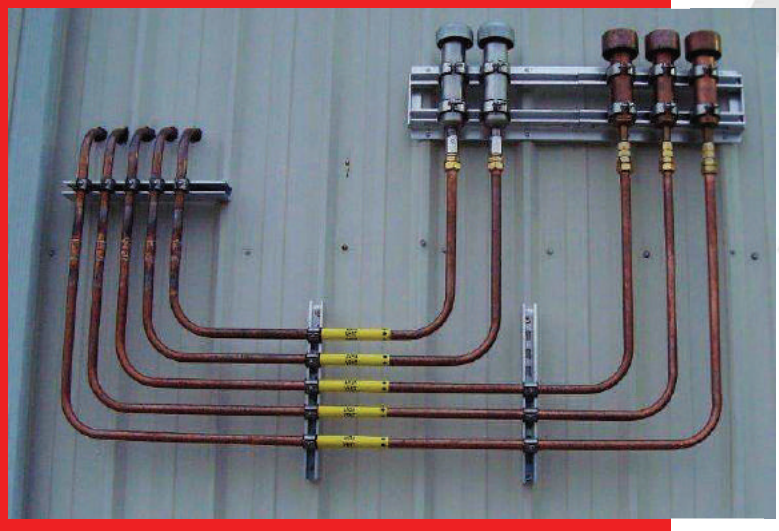
VENT SILENCER





Application:

Reduce the loud annoying sounds associated with high pressure cylinder venting by 60%.



SS VENT

CC VENT



VCE

LIQUID VENT CANS

SS Vent Cans



Dimension:

4” x 14”

Can be used with:

- **Oxygen**
- **Nitrogen**
- **Argon**



Applications:

Eliminates liquid spills on pad from liquid cylinder fill vents & high pressure pump unloader valves

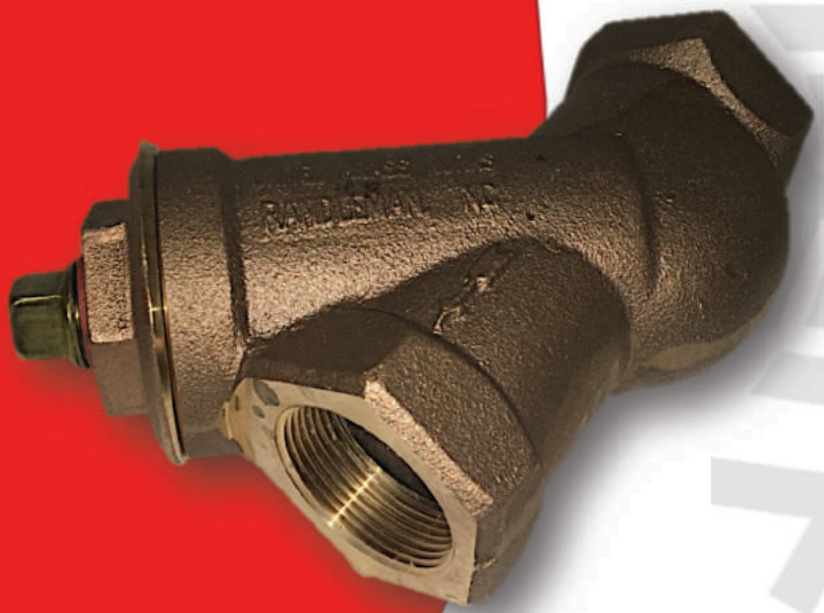
Greatly reduces noise levels associated with above processes

Each can has 4 incoming ports and 1 drain port.

Y-STRAINERS

Y-STRAINERS

Model No.	Size	Material	Std. # Mesh	Plug	Gasket Seal	Ends
YS-12	1/2”	Bronze	100	Brass	Copper	1/2” NPT Female
YS-34	3/4 “	Bronze	100	Brass	Copper	3/4“ NPT Female
YS-1	1”	Bronze	100	Brass	Copper	1” NPT Female
YS-114	1-1/4”	Bronze	24	Brass	Copper	1-1/4” NPT Female
YS-112	1-1/2”	Bronze	24	Brass	Copper	1-1/2” NPT Female
YS-2	2”	Bronze	24	Brass	Copper	2” NPT Female



- 400 psi maximum working pressure
- For use with cryogenic liquids to -455°F
- 24, 50, and 100 mesh filter screens available

Application:

Used for mechanically removing unwanted solids from liquid, gas or steam lines. Used in pipelines to protect pumps, control valves, regulators and other process equipment.