

32F | Pressure Reliefs



RATERMANN
MANUFACTURING, INC.

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RATERMANN

MANUFACTURING, INC.

Liquid Cylinder Pressure Relief Valve

Exclusively for use on DOT 4L Cryogenic Liquid Cylinders

REDUCES NOISE FROM PRESSURE RELIEFS

Generant Liquid Cylinder Pressure Control / Relief Valve is designed exclusively for use on DOT 4L Cryogenic Liquid Cylinders. Dramatically reduces the **NOISE** associated with traditional cylinder relief device discharge. Under normal operating conditions it optimizes cylinder performance by venting only what is required to maintain cylinder pressure in a tight band. In the event that circumstances demand, it has adequate flow capacity to ensure safety, meeting all industry and regulatory requirements.



Only for Dewar Liquid Applications.

FEATURES AND BENEFITS

- Designed exclusively for use on DOT 4L Liquid Cylinders
- Eliminates disruptive "pop" historically associated with traditional cylinder relief devices
- Incorporates the customer proven "Dirt Guard" poppet
- Accurately maintains and controls cylinder pressure minimizing product loss
- Exceeds industry and regulatory flow capacity requirements
- Complies with OSHA sound level regulations
- Extensively field qualified
- OEM approved and endorsed
- Cleaned and packaged for Oxygen service standards

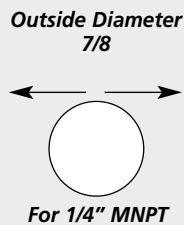
To Order –
1/4" NPT 22 - 500 Psig

Pressure Setting	Part # each	Part # Package of 10
22 PSI	LPR-22	LPR-22-PK10
35 PSI	LPR-35	N/A
50 PSI	LPR-50	N/A
75 PSI	LPR-75	N/A
100 PSI	LPR-100	N/A
125 PSI	LPR-125	N/A
150 PSI	LPR-150	N/A
175 PSI	LPR-175	N/A
200 PSI	LPR-200	N/A
230 PSI	LPR-230	LPR-230-PK10
235 PSI	LPR-235	LPR-235-PK10
350 PSI	LPR-350	LPR-350-PK10
375 PSI	LPR-375	N/A
400 PSI	LPR-400	N/A
425 PSI	LPR-425	N/A
450 PSI	LPR-450	N/A
500 PSI	LPR-500	N/A



TO DETERMINE THREAD SIZE*

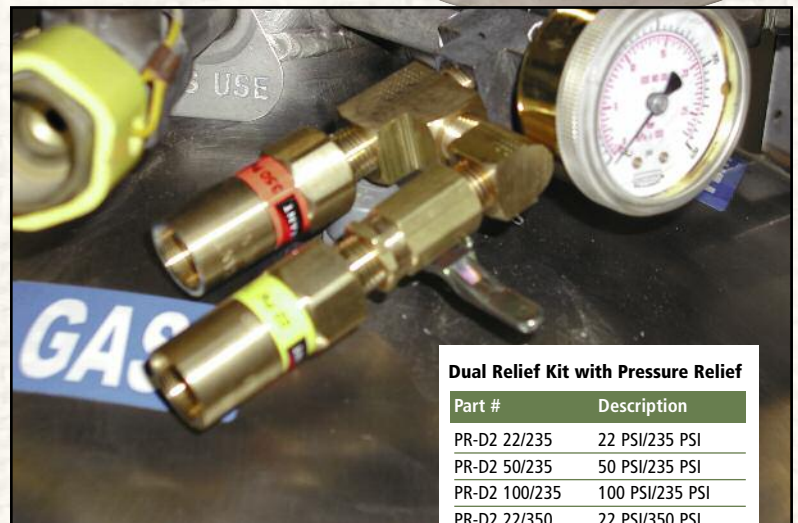
Match up outside thread base of pressure relief to scale to confirm diameter



* These sizes are accurate in printed catalog.

MATERIALS OF CONSTRUCTION

Component	Valve Body Material	
Valve Body, Poppet, Spring Retainer and Screen	Brass, ASTM B16	
Spring	302 SS/17-7 PH ASTM A313	
Seal	Fluorosilicon 22 to 49 PSIG	CTFE 50 to 500 PSIG
Label	.004 Thick Mylar	



Dewars Option for Multi Pressure Needs

Dual Relief Kit with Pressure Relief

Part #	Description
PR-D2 22/235	22 PSI/235 PSI
PR-D2 50/235	50 PSI/235 PSI
PR-D2 100/235	100 PSI/235 PSI
PR-D2 22/350	22 PSI/350 PSI
PR-D2 50/350	50 PSI/350 PSI
PR-D2 100/350	100 PSI/350 PSI

*Some assembly required

Pressure Reliefs Specs

Pressure Reliefs

TECHNICAL DATA

- Inlet Orifice** .312 Diameter
- Flow Coefficient** .45 @ 110% of nominal set pressure
- Full rated flow** is achieved by 110% of nominal set pressure
- Crack pressure tolerance** ± 5% of nominal set pressure
- Zero leakage** up to 95% of nominal set pressure
- Brass bar stock construction** with stainless steel springs
- Temperature Range** -320° to +400° F
- Proof Pressure** 1500 PSI

CONSIDERATIONS

- PTFE Seal, 50 P.S.I. and above
- Kel-F Seal, 100 P.S.I. and above
- Drain Hole omitted on CRVP
- Flow is unaffected with 10% Back Pressure
- Permanently Stamped with Full P/N and Pressure Setting
- Can be supplied with Color Coded Labels in PSI and BAR
- No Mounting Limitations



Packaged Safety Pressure Relief

CLEANED FOR OXYGEN SERVICE AND INDIVIDUALLY PACKAGED

This procedure is in full compliance, and has been audited to the following recognized industry standards and specific customer quality assurance requirements:

- Taylor-Wharton Gas Equipment Division, Quality Assurance
- Union Carbide Linde Division, Engineering Standard GS-38
- Air Products and Chemicals Inc., Class AA Oxygen Cleaned 4WPI-SW7003
- Puritan Bennett Liquid Oxygen Group, Quality Assurance
- Invacare Corporation, Inhalation Therapy Group, Quality Assurance

Testing and packaging procedures available upon request.

For Pressure Relief I.D. Disks see page 32F-4



Pressure I.D. Disk

1/4" NPT Safety Pressure Relief



1/4" NPT Safety Pressure Relief

Part #	Description
PR-22	22 PSI
PR-35	35 PSI
PR-50	50 PSI
PR-75	75 PSI
PR-100	100 PSI
PR-125	125 PSI
PR-150	150 PSI
PR-175	175 PSI
PR-200	200 PSI
PR-230	230 PSI
PR-235	235 PSI
PR-350	350 PSI
PR-375	375 PSI
PR-400	400 PSI
PR-425	425 PSI
PR-450	450 PSI
PR-500	500 PSI
PR-700	700 PSI

Custom Pressure Settings Available Give Customer Service a Call.

1/2" NPT Safety Pressure Relief



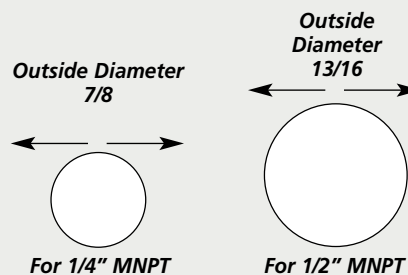
1/2" NPT Safety Pressure Relief

Part #	Description
PR-122	22 PSI
PR-1235	35 PSI
PR-1250	50 PSI
PR-1275	75 PSI
PR-12100	100 PSI
PR-12125	125 PSI
PR-12150	150 PSI
PR-12230	230 PSI
PR-12235	235 PSI
PR-12250	250 PSI
PR-12350	350 PSI
PR-12375	375 PSI
PR-12400	400 PSI
PR-12425	425 PSI
PR-12450	450 PSI
PR-12475	475 PSI
PR-12500	500 PSI
PR-12700	700 PSI

Custom Pressure Settings Available Give Customer Service a Call.

TO DETERMINE THREAD SIZE*

Match up outside thread base of pressure relief to scale to confirm diameter



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Pop Stop Option For Pressure Reliefs

Pop Stop safely addresses the inconvenience of Liquid cylinders safety venting noise in enclosed environments. Designed to be used with Generant CRV series relief valves.



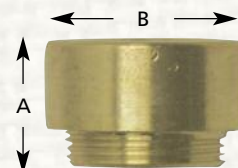
* Muffler sold separately

Part # PR-MFLR

OPTIONS – Pipe-away Adapter

- Pipe-away Adapter
- Seal Materials
- Certified Test Results

Part #	SIZE	A	B
PA-14	1/4" NPT	11/32"	7/8"
PA-38	3/8" NPT	11/16"	7/8"
PA-12	1/2" NPT	3/4"	1"



Pipe-away Adapter
Part # PA-14

Rev: 7/1/13

Pressure Relief I.D. Disk | Labels for Pressure Reliefs

Pressure I.D. Disk

SAFETY DISKS ARE COLOR CODED FOR EACH PRESSURE.



Description

Color-coded pressure relief I.D. disks are imprinted with the appropriate pressure of safety relief.

Benefits

- Save the cost of correcting delivery errors by delivering the correct pressure the first time.
- Customer ease of use.

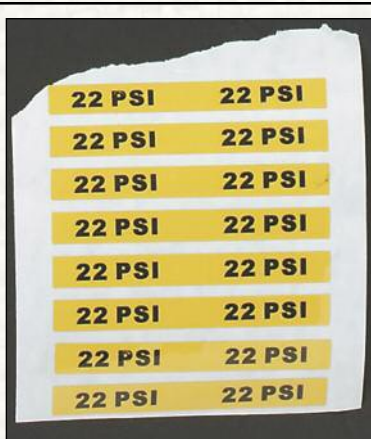
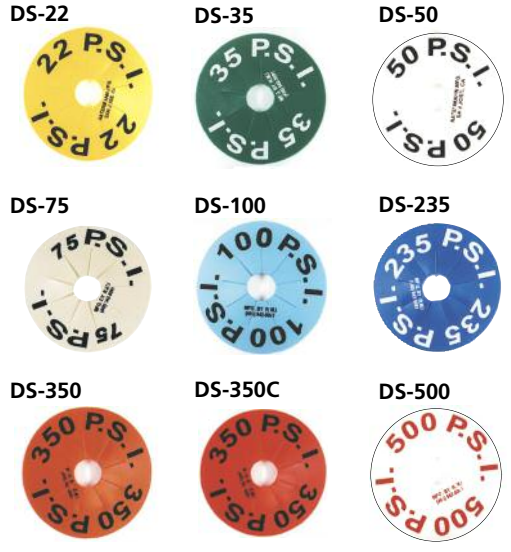
How to Use

Simply slide the disk over the pressure relief valve.

Part # for Pkg. of 50	Description	Color	Part # for Pkg. of 10
DS-22PK50	22 PSI	Yellow	(Pt # DS-22PK10)
DS-35PK50	35 PSI	Green	(Pt # DS-35PK10)
DS-50PK50	50 PSI	White w/ Black Text	(Pt # DS-50PK10)
DS-75PK50	75 PSI	Tan	(Pt # DS-75PK10)
DS-100PK50	100 PSI	Lt. Blue	(Pt # DS-100PK10)
DS-230PK50	230 PSI	Blue	(Pt # DS-230PK10)
DS-235PK50	235 PSI	Blue	(Pt # DS-235PK10)
DS-350PK50	350 PSI	Orange	(Pt # DS-350PK10)
DS-350CPK50	350 PSI CO2	Red	(Pt # DS-350CPK10)
DS-500PK50	500 PSI	White w/ Red Text	(Pt # DS-500PK10)



Safety Disks are Color coded for each pressure.



Pressure I.D. Tape

Labels for Pressure Reliefs

Pressure Identification Labels are specially designed for cryogenic environment.

- Color coded and imprinted with pressure rating.

Pressure Identification Labels

Part # for Pkg. of 25	Description	Part # for Pkg. of 10
SL-22PK25	22 PSI	(Pt # SL-22PK10)
SL-50PK25	50 PSI	(Pt # SL-50PK10)
SL-100PK25	100 PSI	(Pt # SL-100PK10)
SL-235PK25	235 PSI	(Pt # SL-235PK10)
SL-350PK25	350 PSI	(Pt # SL-350PK10)
SL-500PK25	500 PSI	(Pt # SL-500PK10)

Other Pressures Available – Please call for more information

Label Adhesive Remover

Outstanding results for removing cylinder label adhesives!



Flash Point 162° F (71° C)

Biodegradable, 100% Organic, Non-Toxic No Residual After Surface Dries

Part #	Description
LR-ACS-1QT	1 Quart with trigger spray
LR-ACS-1GAL	1 Gallon
LR-ACS-5GAL	5 Gallon

