

## New



*The Right Connection®*

# **Chlorine Combination Pressure Relief Device**

# Combination Rupture Disc and Reclosing Pressure Relief Device for Chlorine Rail Tank Cars

## Features

- Improved O-ring seals and capture of rupture disc
- Increased rupture disc quality level reduces probability of low-pressure ruptures
- Monel® 400 tell-tale valve
- Meets CI Pamphlet 166 design requirements
- Approved for service trial ST-513
- AAR approval – PRD252108

## Materials

- Body: Hastelloy® C276
- Stem: Hastelloy C276
- Seals: PTFE and FKM
- Rupture disc: tantalum
- Spring: stainless steel
- Alternate materials available

## Specifications

- Rupture disc burst pressure: 375 PSIG (-15%, +0%)
- Start-To-Discharge (STD) pressure: 351 PSIG
- Vapor tight pressure: 336 PSIG MIN.
- Flow rate at 412.5 PSIG: 5,029 SCFM
- Mounting flange: 6-1/2" bolt circle on a 6" square flange with four 7/8" diameter holes and tongue & groove mount
- Rupture disc flange assembly presealed at factory

### Additional Design Testing – Not Required by AAR

- Design shock testing: +/- 20G, 11ms, half sine wave, three pulses positive, three negative in X, Y, and Z axes
- Vibration: 5G for 8 hours at resonance frequency
  - Y axis: 390 Hz
  - X axis: 406 Hz



Dixon

Part #	Description
R-P375H625FK200	combination pressure relief device

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## Technical Information



The Right Connection®

## Materials

No.	Description	Material
1	body	Hastelloy® C
2	rupture disc flange	Monel®
3	plug	Hastelloy C
4	retainer	Hastelloy C
5	stem	Hastelloy C
6	guide	stainless steel
7	adjusting screw	stainless steel
8	valve cover	PVC
9	follower	stainless steel
10	seal retainer	Monel
11	top guide	stainless steel
12	outer spring	stainless steel
13	inner spring	stainless steel
14	cap	stainless steel
15	rupture disc	tantalum
16	wire seal	lead/stainless steel
17	purge valve	Monel
18	shaft seal	PTFE
19	upper filler	FKM
20	lower filler	FKM
21	top gasket	FKM
22	cap screw	stainless steel
23	nameplate	Monel
24	drive screw	stainless steel
25	cap/chain assembly	polyethylene/stainless steel.
26	O-ring, 2-155	FKM
27	O-ring, 2-214	FKM
28	O-ring, 2-233	FKM
29	O-ring, 2-238	FKM
30	O-ring, 2-324	FKM
31	std nut, 3/8-24	Monel
32	jam nut	stainless steel
33	stud	Monel
34	cap screw	stainless steel
35	CID label	vinyl

## Warning & Safety



 Dixon® valves are designed to work safely for their intended use. Failure to know and understand the intended use or to consider the size, temperature, application, media, pressure and manufacturers recommendations when selecting the proper valve assembly components can result in accidents and injuries, including death and serious and permanent injuries. Dixon recommends that all valve assemblies be tested in accordance with ASME and API recommendations and be inspected regularly to ensure that their use remains appropriate and that they are not damaged.

At no charge, Dixon is available to consult, train, and recommend the proper selection and application of all valves we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Contact Dixon to learn more.

