

Bicera Crankcase Relief Valve

Service and Operation

Data Sheet

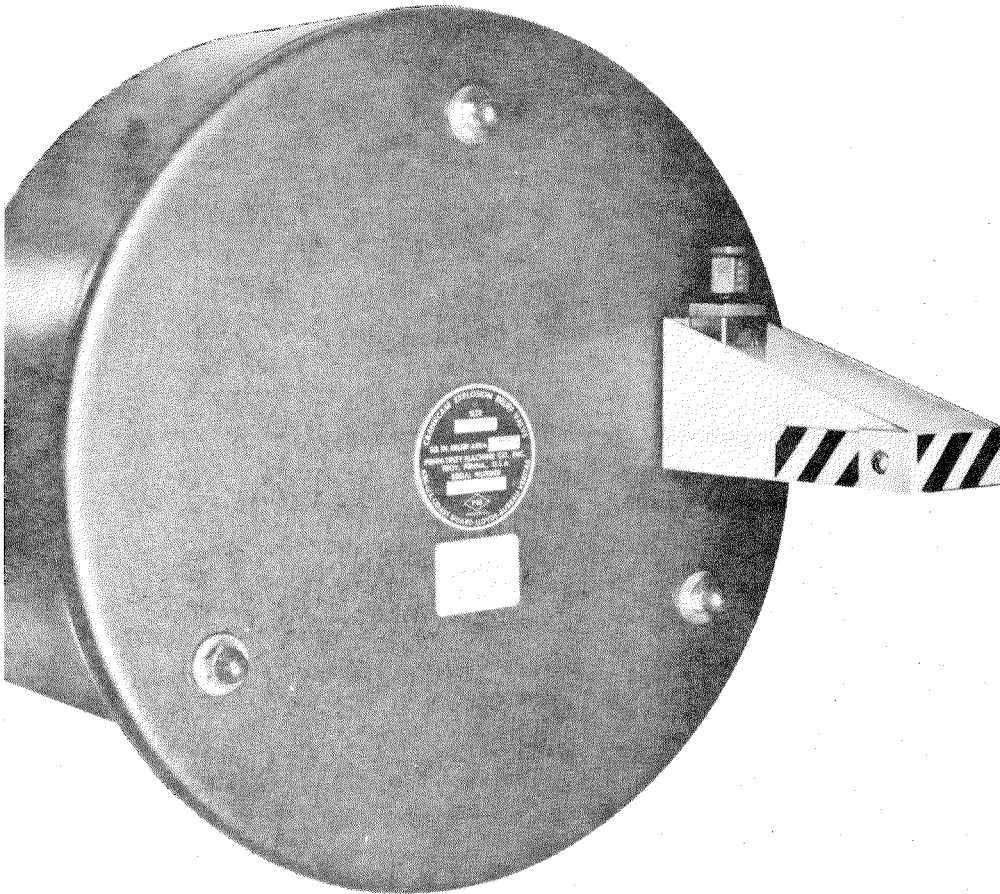
The Bicera Valve

Your Bicera Valve is an important part of your safety system and must be maintained properly. This information sheet gives you some information on maintenance and use of the Bicera Valve.

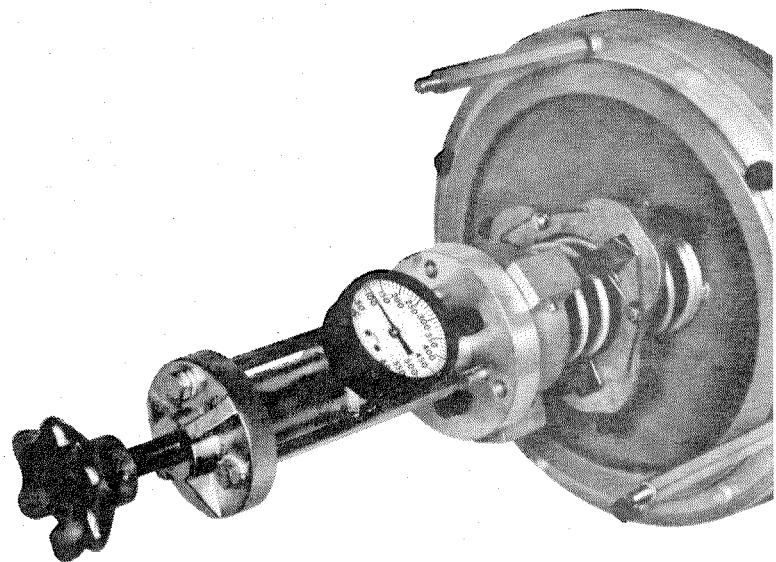
Function

In the event of a crankcase explosion, the Bicera Valve opens to reduce the peak pressures inside the crankcase. The exclusive internal flame trap retards the emission of flame while the valve is venting. After relieving the pressure, the Bicera Valve reseats to prevent air from rushing in and causing a possible secondary explosion.

The proper functioning of the Bicera Valve is dependent upon the proper number of, and size of Bicera Valves, the proper maintenance of the Bicera Valve, and the proper use of the Bicera Valve.



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Safety

Bicera Valves do not prevent crankcase explosions, only reduce the peak pressures during explosion to minimize damage.

To operate properly, the correct number and size of Bicera Valves must be installed. Your Bicera representative can help you

determine the correct number and size of valves required for your installation.

Never operate an engine without all valves-on the engine and all bolts and nuts installed and properly tightened, including the crankcase door nuts and bolts.

As with any protective device, absolute protection cannot be guaranteed, but with proper maintenance and application, the Bicera Valve provides the best protection available.

Installation

When installing the Bicera valve, always check that there is clearance for the valve in the crankcase. The Bicera valve may interfere with some moving parts when installed. If there is interference, a different door may be required.

Allow engine to cool before removing crankcase doors.

Maintenance

The Bicera Valve should be inspected and exercised annually. The valve should be checked that all nuts, bolts, and covers are in place and secure. The spindle should be checked for rust and lightly greased. Exercising the valve calls for lifting the valve off its seat to ensure that gaskets are in good shape and the valve plate is free to move. The larger Bicera Valves, 10RD, 12RD, and 16RD, generally require the Bicera disassembly tool for this operation, as well as replacing O-Rings.

The Bicera O-Rings should be replaced approximately every two years. Different operation conditions may make more frequent service necessary.

Service Kits

Bicera service kits are available from your local Bicera representative. Service kits contain all O-Rings and related hardware required for routine maintenance of Bicera Valves.

Service kits are listed below by valve size, type and serial number.

Disassembly and Testing Tools

Valve Size	Disassembly	
	Tool	Test Tool
10RD	3315-10	3315-PC-10
12RD	3315-12	3315-PC-12
16RD	3315-16	3315-PC-16

Bicera Valve Service Kit Selection Guide

This guide details which kit is required for a valve by serial number, size and style.

Valve	Serial Numbers	Last Date	Kit
4RD	1 - 1015	11/17/70	K04RD
4A	1 -	Current	K4A
4AQD92D	1 -	Current	K4D
4AQD92M	1 -	Current	K4M
4AQD92W	1 -	Current	K4W
6" Rectangular	1 - 1408	10/14/69	K06RD
6RD	1409 - 2463	9/3/69	K06RD
6A	1 -	Current	K6A
6QD53C	1 - 72	9/1/72	K06C
6AQD53C	72 -	Current	K6C
6AQD53D	1 - 237	8/1/72	K06D
6QD53E	1 - 1357	2/9/72	K06E
6AQD53E	1358 -	Current	K6E
6QD53F	1 - 40	8/3/71	K06F
6QD53FM	(See 6QD53J)		
6QD53J	1 - 1141	12/11/75	K06J
6AQD53J	1142 -	Current	K6J
6QD53JQ	1 - 77	9/4/75	K06JQ
6AQD53JQ	78 -	Current	K6JQ
8QD53C	1 - 420	10/24/75	K08C
8QD53CB	1 -	Current	K8C
8QD53D	1 -	Current	K8D
8QD53E	1 - 218 & 223 - 1010	10/1/76	K08E
10"	1 - 4138	12/1/67	K010 (Flat Gasket)
10RD	4139 - 8649	8/27/69	K010 (Flat Gasket)
10RD	8649 -	Current	K10
12"	1 - 1817	6/16/67	K012 (Flat Gasket)
12RD	1818 - 2874	3/23/70	K012 (Flat Gasket)
12RD	2875 -	Current	K12
16RD	1 - 1385	3/13/70	K016 (Flat Gasket)
16RD	1386 -	Current	K16

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Manufacturers of "BICERA"
Crankcase Explosion Relief Valves