tyco
Flow Control

YARWAY

How to operate and service hardseat blow-off valves (integral yoke design)

Construction details

Seat and disc design, with stellite sealing surfaces. Beveled end of steel disc has welded-in stellite facing and inlet and outlet nozzles have integral welded-in stellite seats. This stellite provides smooth hard-wearing surfaces at these important points. Lip on end ot disc checks wire drawing and protects bearing faces against cutting action of blow-down.

Installation and operation

Valve is usually installed with flow entering below seat.
The Yarway hardseat valve should be opened rapidly and fully, to increase life of working parts; never blow down with valve partly open.
When installed in tandem combination, the hardseat blowing valve nearest to boiler will have flow entering below seat. This blowing valve should be opened last and closed first; the seal ing valve, farthest from boiler, should be opened first, closed last. Both valves should be opened rapidly and fully to increase life of working parts; never blow down with valves partly open.

Care of hardseat valves

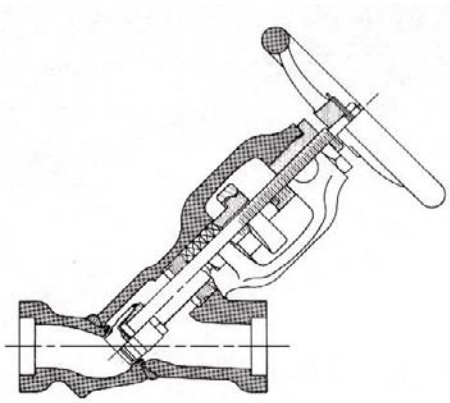
Lubrication
Keep hardseat valves well lubricated. Proper lubrication is extremely important. Oil stem threads frequently. Yarway SV-650 (or equivalent) super heat mineral oil is recommended for these points.

Cleaning or clearing
All internal parts of the hardseat valve can be removed without disconnecting the body from the line. If inside of valve must be cleaned or if a foreign body lodged in the valve prevents seating of the disc, disassemble as follows:

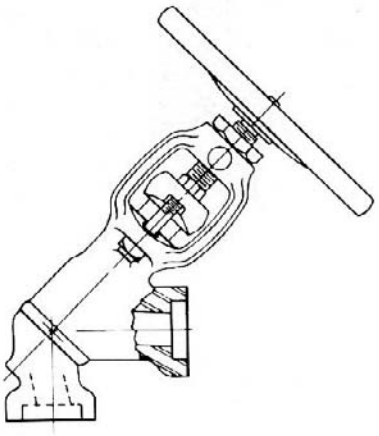
1. Loosen the two gland nuts and remove split gland bushing.
2. Turn handwheel past full open position to jack the packing and stuffing box bushing out of the stuffing box.
3. Break tack weld on yoke bushing and back out this bushing.
4. Remove internal parts through top of yoke.

When valve is reassembled, yoke bushing must be tack welded in place to prevent accidental loosening of the bushing while valve is in service. It is also advisable to be sure to keep disc clear of seat during reassembly of yoke bushing.

Reseating
If it becomes necessary to refinish face of seat, use specially designed Yarway Resealing Tool.



Yarway hardseat blow-off valve, straightway body, welding ends, in closed position.



Yarway hardseat blow-off valve, angle body, welded ends.

Operating and servicing instructions identical for angle and straightway hardseat valve.

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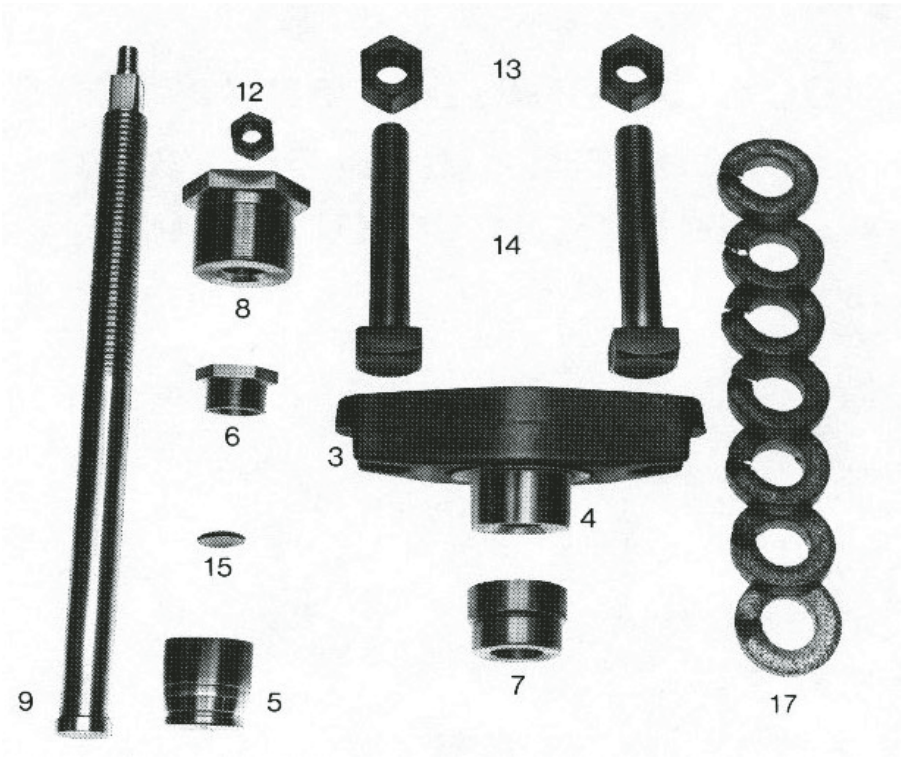

A specially designed Yarway Resealing Tool for resealing hardseat blow-off valves allows recutting of worn or damaged seat without removing valve from line. Cutters of various sizes assure that all hardseat valve seats are cut at proper angle. Seat should not be lapped to disc. Prices and complete details furnished on request.

* When ordering above parts, please use part numbers and names shown in table,specify size, figure number, type of valve and operating pressure (see name plate on valve body).

** When ordering body, specify if flanged or socketweld connections, size valve and figure number.

Parts list

Item	Description*
1**	Body (not shown)
3	Gland
4	Split gland bushing
5	Disc
6	Disc nut
7	Stuffing box bushing
8	Yoke bushing
9	Stem
12	Stem nut
13	Gland bolt nuts
14	Gland bolt
15	Disc insert
17	Packing