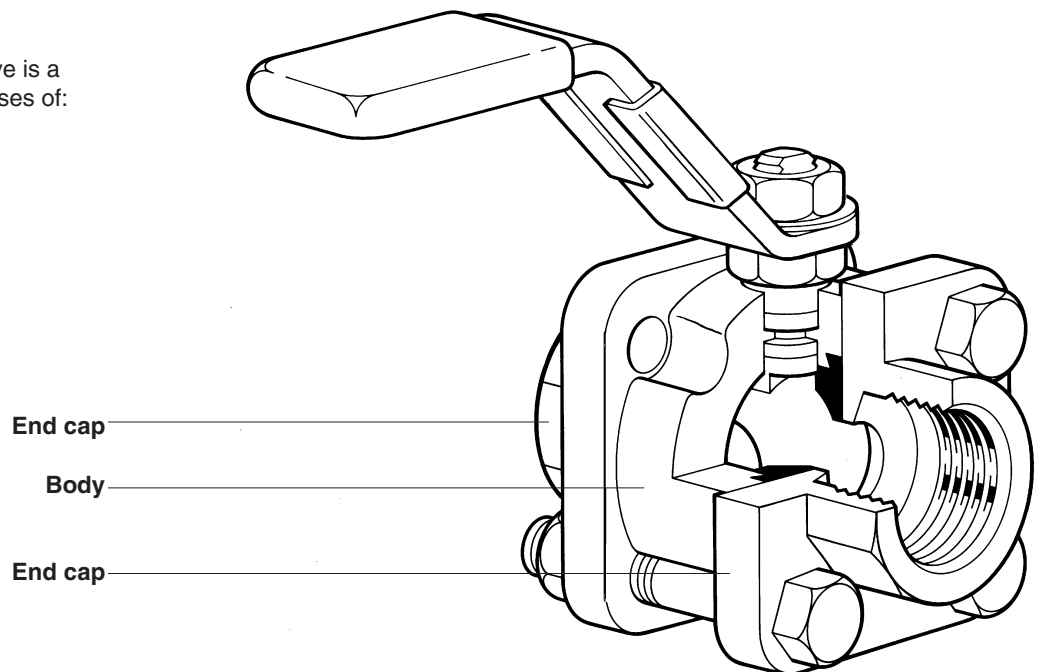


### M10V Ball Valve Screwed, SW, BW and Flanged Versions

#### Installation and Maintenance Instructions

The Spirax Sarco M10V ball valve is a three piece design which comprises of: Body and two end caps.

**Screwed version shown.**



#### Installation

Although the valve has great structural integrity, severe misalignment and / or the pulling effect of incorrect pipe length will have a detrimental effect on the valve and must be avoided.

Particular attention should be paid to correct pipe alignment such that the inlet pipework and valve are all on the same axis.

Valves are for on/off applications and may be installed with flow in either direction. When used on steam services:

1. Fit a trapped drain pocket upstream of the valve.
2. Open valve slowly to prevent the risk of waterhammer damage.

#### Socket and butt weld valves

Prior to any welding it will be necessary to:

1. Dismantle the end caps from the body.
2. Remove the PTFE seats.
3. Weld each end cap to the pipeline.
4. Replace the PTFE seats.
5. Reassemble.

#### Safety note

Before commencing any dismantling work ensure that no flow is taking place in the pipeline; that the line is isolated elsewhere, or that the flow of the fluid is discontinued. Any fluid remaining in the line should be drained off before dismantling the valve.

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## Maintenance

### General

Maintenance work can be carried out without removing the complete ball valve from the pipeline. Remove the two upper bolts and nuts (13, 14) and loosen the lower two. The complete body assembly can then be removed and any new parts fitted.

### Flanged valves

To proceed with maintenance work, the complete flanged valve requires removal from the pipeline. Remove the 4 nuts (14), the complete body assembly can now be removed and new parts fitted.

### To replace seats

1. Remove the body as described above.
2. With body removed, remove seats (5).
3. Fit new seats, pushing them into body recesses.

### To replace stem seals

1. Remove body as described above.
2. Remove nuts (8) and (8A).
3. Replace stem seals (6).

### Reassembly

Reassemble in reverse order to instructions given above.

## Spare parts

The spare parts available are shown in heavy outline. Parts drawn in broken line are not supplied as spares.

### Available spare

Seat and stem seal set	5, 6
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### How to order spares

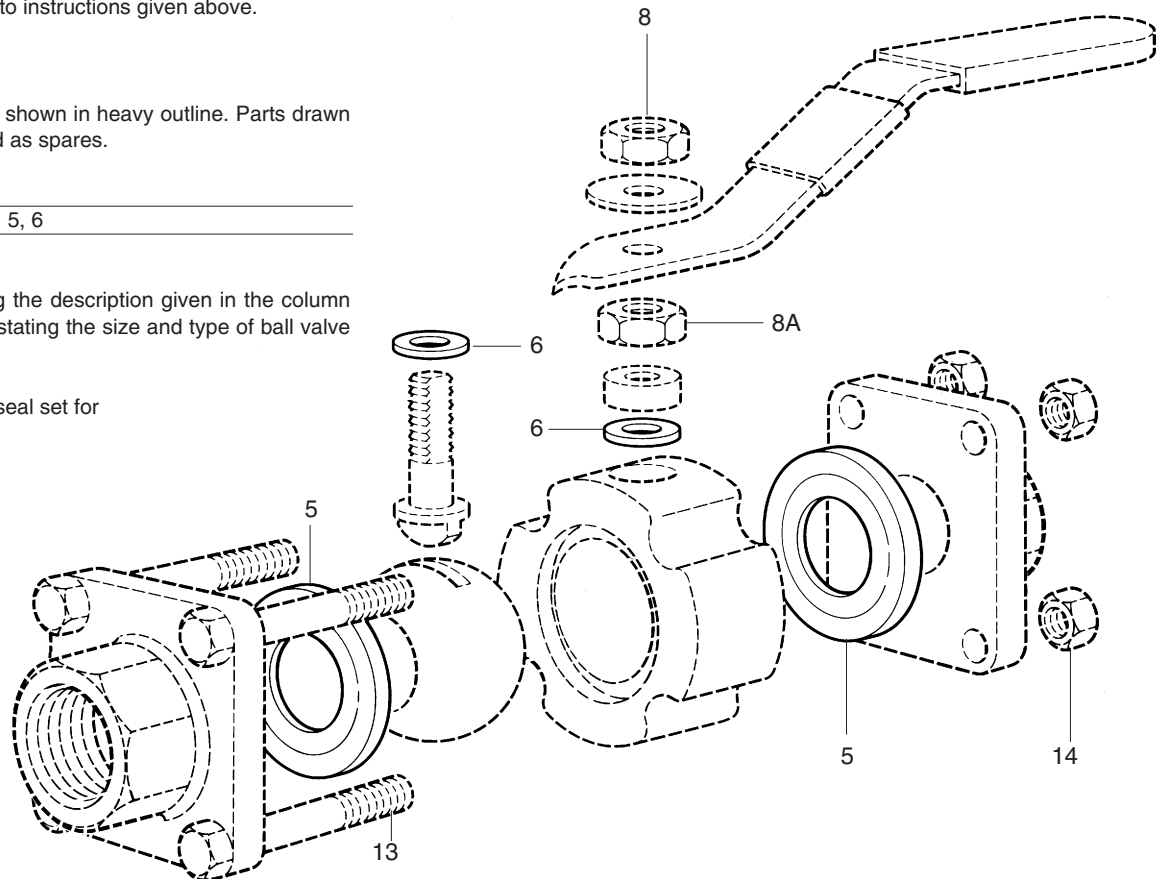
Always order spares by using the description given in the column headed Available Spare and stating the size and type of ball valve required.

**Example:** 1 - Seat and stem seal set for 1/2" M10V2FB ball valve.

## Recommended tightening torques

### Securing bolts and nuts

Item	Size	in-lbs
13 and 14	1/4", 3/8", 1/2" RB	115
	1/2" FB, 3/4" RB	115
	3/4" FB, 1" RB	265
	1" FB, 1-1/4" RB	265
	1-1/4" FB, 1-1/2" RB	350
	1-1/2" FB, 2" RB	500
	2" FB, 2-1/2" RB	660
Stem nut		
Item	Size	in-lbs
8A	1/4", 3/8" RB	36/48
	1/2", 3/4" RB	48/72
	3/4" FB, 1" RB	95/120
	1" FB, 1-1/4" RB	155/180
	1-1/4" FB, 1-1/2" RB	155/180
	1-1/2" FB, 2" RB	155/180
	2" FB, 2-1/2" RB	350/415



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