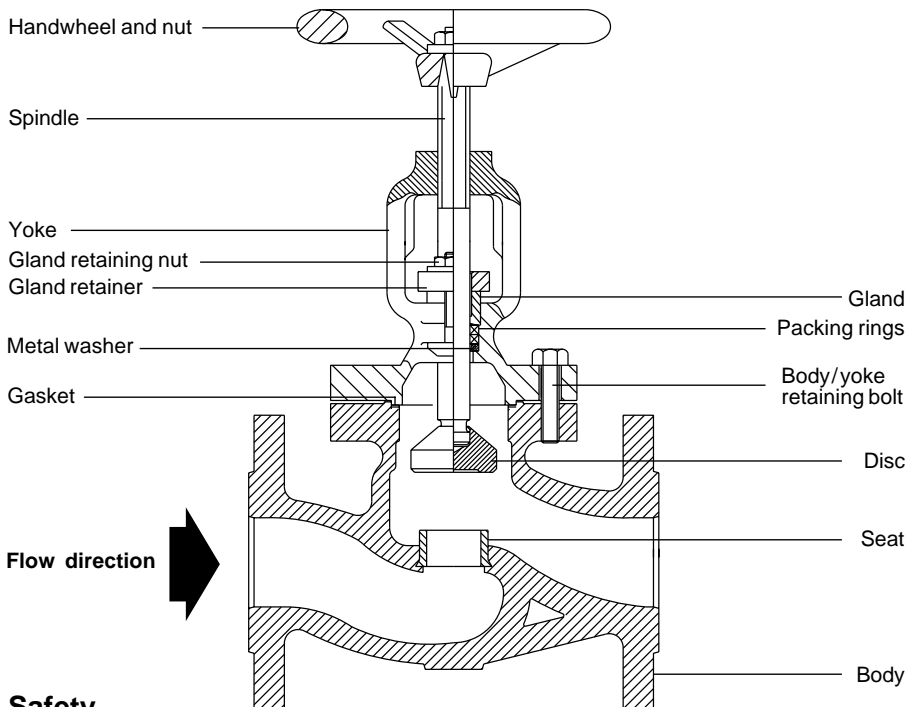


## G3 Gland Sealed Stop Valve Installation and Maintenance Instructions



### Safety

#### WARNING

Your attention is drawn to Safety Information leaflet IM-GCM-1.

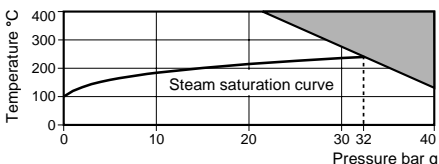
Before removing a valve from a system, all vessels and pipelines to which it is connected must be adequately isolated, depressurised, and drained. Make sure there is no pressure to the valve body, or any pressure remaining in the body, before loosening or removing the flange bolts.

### Description

The Spirax Sarco G3 is a flanged, gland sealed in-line stop valve for general duties. The valve must not be used on any fluids categorised as Group 1 according to the E.C. directive on the classification of dangerous substances (i.e. explosive, flammable, toxic, oxidising substances). Examples of uses include isolating condensate, boiler feedwater, boiler blowdown, hot water, cooling water etc. The G3 valve

disc-to-seat shut-off conforms to DIN 3230 leakage BF test method Rate 2 (air under water).

### Operating range



### K<sub>v</sub> values

Size	DN15	DN20	DN32	DN40	DN50	
K <sub>v</sub>	4.0	7.0	11	19	30	46

For conversion:  $C_v$  (UK) =  $K_v \times 0.97$   
 $C_v$  (US) =  $K_v \times 1.17$

---

## Installation

The valve may be installed in any position, but the flow must be in the direction of the arrow on the valve body.

- Fit a suitable strainer before the valve if there is a risk of contamination.
- Ensure easy access to the handwheel.
- Align pipework and flanges so that no load is imposed on the valve in service.
- After the valve has been used for the first time, check the tightness of all nuts and bolts with the valve depressurised and at room temperature.

## Maintenance

### WARNING

**Ensure the valve pipeline is isolated, drained, and vented to atmosphere before attempting any maintenance.**

The valve has no special servicing or maintenance requirements. In all applications, periodic operation of the valve is recommended to keep the valve free. Frequency of this check will depend on the operating environment.

Apply a small quantity of graphite or copper based grease to the spindle thread from time to time. We recommend the valve is checked periodically for gland leakage, the gland nuts tightened, and the stem packing and body/yoke gasket replaced if necessary. Gaskets and packing must be renewed every time the valve is dismantled.

### Replacing the stem packing and bonnet /yoke gasket

- Ensure the valve pipeline is isolated, drained, cold, and vented to atmosphere.
- Open the valve one or two turns.
- Remove the 4 body/yoke retaining bolts.
- Separate the yoke from the body and remove the gasket.
- Remove the handwheel retaining nut and handwheel.
- Remove the spindle by turning it clockwise until it is free of the yoke thread.
- Loosen packing gland retaining nuts, turn bolts through 90°, and remove gland retainer.
- Remove gland.
- Remove old packing rings and the metal washer below them by pushing the assembly upwards.
- Note quantity of rings removed. Keep the washer.
- Check that the packing ring housing is clear of debris and refit the washer followed by the new seals. Use the same quantity of new seals as were removed.
- Reassemble the valve in the reverse order of dismantling, using a new bonnet / yoke gasket.
- After the valve has been re-used for the first time, check the tightness of all nuts and bolts with the valve depressurised and at room temperature.

## Available spares

A packing and gasket set is available for the valve, and consists of 1 off body/yoke gasket and packing rings to suit. Always order spares by using the description and stock number below, and state type and size of valve, and whether it is marked 'Made in Spain' or 'Made in Germany'.

---

### Description

Packing and gasket set consisting of: 1 body/yoke gasket and packing rings to suit.

Size		Made in Spain	Made in Germany
<b>DN15 and DN20</b>	Stock numbers	4095081	4095080
<b>DN25 and DN32</b>	Stock numbers	4095281	4095280
<b>DN40</b>	Stock numbers	4095481	4095480
<b>DN50</b>	Stock numbers	4095481	4095580