

**Body:** EN-GJS-400-18-LT (GGG-40.3), three way form for water and steam, as mixing valve (diverted purpose restricted, see page 038 990)  
 Pressure range: PN 16, PN 25  
 Immersion length acc. to DIN EN 558, basic series 1  
 Flanges acc. to DIN EN 1092-2 type 21  
 Spindle sealing: spring-loaded PTFE-V-ring unit for media temperatures up to 250°C  
 Alternatively: graphite-packing for media temperatures up to 350°C  
 Internal parts: stainless steel, replaceable seat rings  
 Flow characteristic: linear  
 Positioning ratio: 50:1  
 Leakage: < 0,01% Kvs

**Actuator:** diaphragm area 250 cm<sup>2</sup>, ø250 mm  
 Control signal / closing pressure: see table  
 Operating mode (reversible):  
 "Spring closes straightway A-AB"  
 Air connection: G1/4"  
 Operating pressure: standard type: 1,6 bar  
 other types: ...c: 3 bar, ...d: 6 bar

**Accessories, special types:**  
 I/P-Positioner, control signal 4...20 mA (see page 390 8)  
 P/P-Positioner, control signal 0,2...1,0 bar (see page 390 5)  
 Electro-pneum. transformer (see page 390 3)  
 Solenoid valve for operating air (see page 393)  
 Limit switches (see page 39e)  
 Inductive limit switches (on request)  
 Manual operating device (see page 39h)  
 Other Kvs- values (on request)  
 Weld-on ends (on request)  
 Flange drillings acc. to ANSI / JIS (on request)

**Order text:**  
 Pneumatic control valve in three way form, with mixing plug  
 EN-GJS-400-18-LT (GGG-40.3), PN . . ., DN . . ., Kvs . . .  
 Spindle sealing with PTFE-V-ring unit  
 Spring closes (opens) straightway A-AB  
 Control signal . . . - . . . bar, closing pressure . . . bar  
 List-No. 331 . . . , accessories: . . .



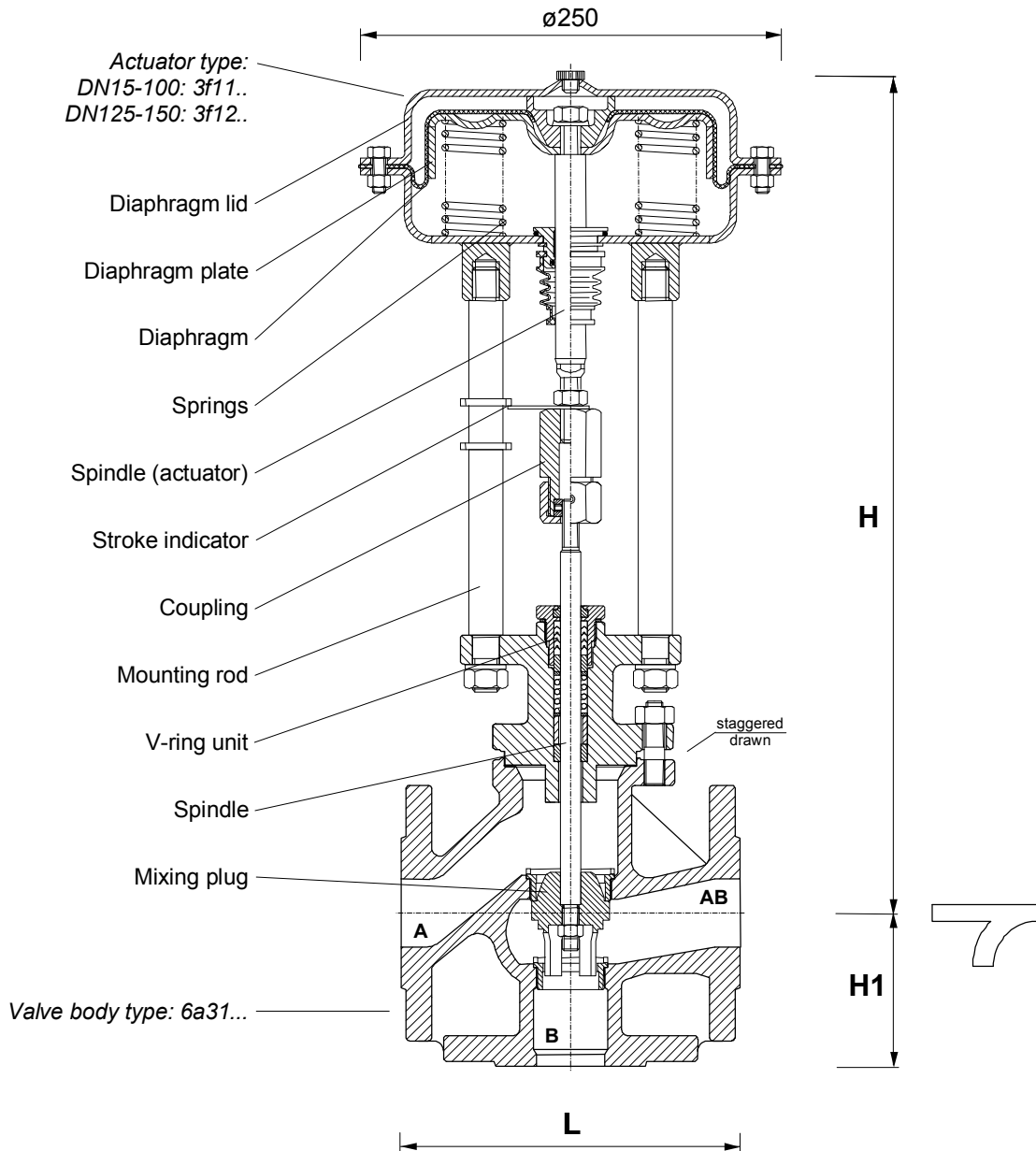
**Pressure-temperature ratings acc. to DIN EN 1092-2:**

| by:   | -10...120 | 150  | 200  | 250  | 300  | 350  | °C* |
|-------|-----------|------|------|------|------|------|-----|
| PN 16 | 16        | 15,5 | 14,7 | 13,9 | 12,8 | 11,2 | bar |
| PN 25 | 25        | 24,3 | 23   | 21,8 | 20   | 17,5 | bar |

\* = max. 250°C for spindle sealing with PTFE-V-ring unit

| DN  | List-No. |          | Kvs<br>m <sup>3</sup> /h | Stroke<br>mm | Closing pressure* (bar) for control signal... |                            |                            |
|-----|----------|----------|--------------------------|--------------|---|----------------------------|----------------------------|
|     | PN 16    | PN 25    |                          |              | 0,4...1,2bar:<br>standard                     | 1,0...2,0bar:<br>type ...c | 2,0...4,0bar:<br>type ...d |
| 15  | 331 400. | 331 500. | 4                        | 20           | 17,9  | 25,0                       |                            |
| 20  | 331 401. | 331 501. | 6,3                      | 20           | 17,9  | 25,0                       |                            |
| 25  | 331 402. | 331 502. | 10                       | 20           | 11,1  | 25,0                       |                            |
| 32  | 331 403. | 331 503. | 16                       | 20           | 6,3   | 22,8                       | 25,0                       |
| 40  | 331 404. | 331 504. | 25                       | 20           | 3,6   | 14,4                       | 25,0                       |
| 50  | 331 405. | 331 505. | 40                       | 20           | 1,9   | 8,9                        | 20,7                       |
| 65  | 331 406. | 331 506. | 63                       | 30           | 0,6   | 4,8                        | 11,9                       |
| 80  | 331 408. | 331 508. | 100                      | 30           |   | 3,0                        | 7,7                        |
| 100 | 331 410. | 331 510. | 160                      | 30           |   | 1,7                        | 4,7                        |
| 125 | 331 412. | 331 512. | 230                      | 35           |   | 0,7                        | 2,5                        |
| 150 | 331 415. | 331 515. | 330                      | 38           |   |                            | 1,6                        |

\* higher closing pressures and DN>200 on request, DN200: see page 3314/520Sg  
 data subject to alteration



| DN             | 15  | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Height H       | 458 | 472 | 466 | 473 | 480 | 483 | 525 | 526 | 533 | 685 | 700 |
| Stud length H1 | 65  | 70  | 75  | 80  | 90  | 100 | 120 | 130 | 150 | 200 | 210 |
| Length L       | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 |
| Weight kg      | 17  | 18  | 19  | 22  | 23  | 26  | 42  | 47  | 61  | 115 | 137 |



**Foxboro SRI990**



**Samson 4763**

**Function:**

The electropneumatic positioner drives the plug of the control valve in position which depends on the input signal. The input signal can be adapted to the valve travel with various measuring springs and/or various levers for valve travel. Possible ranges are: 4...20 mA and for split-range operation 4...12 mA and 12...20 mA. The valve plug position is transmitted to the positioner with a lever. The minimum and the maximum of the input signal correspond to the end positions of the valve plug. The positioner controls and changes the output pressure connected to the pneumatic actuator and causes valve position changes, according to the input signal.

**Technical data:**

|                           |  |                                      |
|---------------------------|--|--------------------------------------|
| Input signal:             | 4...20 mA, 4...12 mA and 12...20 mA, two-wire system   |                                      |
| Air supply:               | acc. to ISO 8573-1:<br>- maximum particle size and density: class 2<br>- oil contents: class 3<br>- pressure dew point: class 3 or at least 10 K below ambient temperature |                                      |
| Air supply pressure:      | 1,4...6 bar (20...90 psi)  |                                      |
| Output signal:            | 0...100% air supply pressure   |                                      |
| Characteristic:           | linear   |                                      |
| Air connection:           | G 1/4" acc. to ISO 228   |                                      |
| Operating direction:      | reversible<br><i>Factory setting: direct (increasing input =&gt; increasing output)</i>  |                                      |
| Type:                     | <b>390846x</b> (Foxboro SRI990)  | <b>39084.</b> (Samson 4763)          |
| Max. ambient temperature: | -40 ... 80 °C  | -20 ... 70 °C                        |
| Protection class:         | IP 65  | IP 54                                |
| Weight:                   | 1,7 kg   | 1,5 kg                               |
| Explosion protection:     | II 2 G EEx ia IIC T6<br>(standard)   | II 2 G EEx ia IIC T6<br>(optionally) |

| <b>Types*:</b>                     | <b>List-No.</b> |
|------------------------------------|-----------------|
| Type Foxboro SRI990 Ex-version:    | <b>390 846x</b> |
| Type Samson 4763 standard version: | <b>390 841</b>  |
| Type Samson 4763 Ex-version:       | <b>390 842</b>  |

**\* On request:**

- Accessories (for instance output signal 4...20 mA, inductive limit switches, pressure gauge)
- Special design (for instance other protection class, stainless steel housing, version for oxygen)
- Positioner from other producer (for instance ABB, Flowserve, Siemens)
- Positioner for other communications (for instance HART, PROFIBUS)