

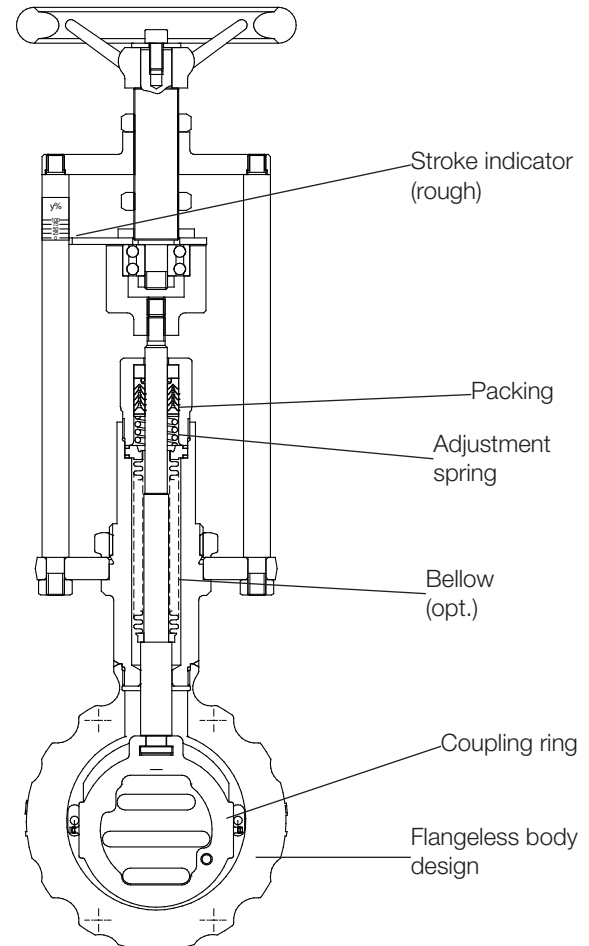
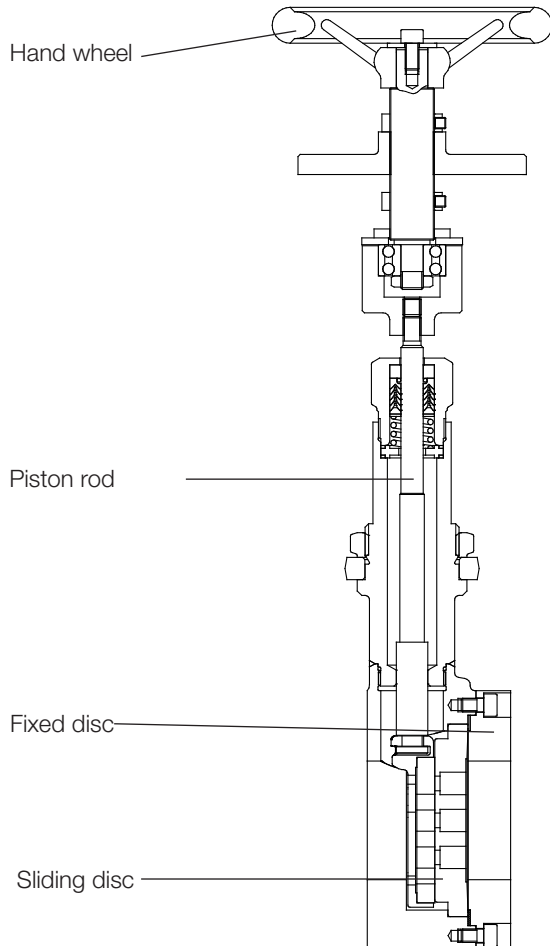
Manual Control Valve 8050

GS 3 series, DN 15 up to DN 250

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

Manual control valve for neutral through to highly aggressive media.

- Precise control by hand
- Lowest possible weight (especially in larger sizes)
- High Kvs-values
- High tightness
- Simple handling of high pressure differences



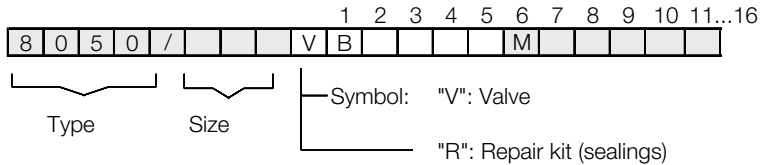
Technical Information

| | | |
|--------------------------------|--|--------------------|
| Body design | Flangeless, wafer-type construction more versions see on data-sheet 8050/51-GS1 | |
| Nominal sizes | DN 15 to DN 250 | |
| Nominal pressure acc. DIN 2401 | PN 40 (fits also to PN 10-25) | DN 15 - DN 150 |
| | PN 100 | DN 15 - DN 80 |
| | PN 16 | DN 200 - DN 250 |
| Nominal pressure acc. ANSI | ANSI 150 | DN15 - DN 250 |
| | ANSI 300 | DN 15 - DN 150 |
| | ANSI 600 | DN 15 - DN 80 |
| Media temperature | Carbon steel body | -10°C up to +300°C |
| | Stainless steel body | -60°C up to +350°C |
| Leakage rate (% of Kvs-value) | Disc pair | Disc pair |
| | Carbon-stainless steel < 0.0001 | STN2 < 0.001 |

Materials

| | | |
|-----------------------------|---|-----------------------------|
| Body | Stainless steel 1.4571 / 1.4581 | Carbon steel 1.0570 /1.0619 |
| Head section | Stainless steel 1.4571 /1.4581 | |
| Packing | PTFE (Carbon filled), spring 1.4310 | |
| Actuating stem | Stainless steel 1.4571, roller burnished | |
| Bellows | Stainless steel 1.4571 | |
| Fixed disc | Stainless steel 1.4571, coated | STN2-disc |
| Sliding disc | Special carbon material, metallicly impregnated | STN2-disc |
| Guide ring for sliding disc | Stainless steel 1.4571 | |

Ordering Number System



1 - 5 : Please quote all 5 sections.
6 - 16: Quote only if required.

| 1. Type | 2. Connection | 3. Body material | 4. | 5. Actuator | 6. Special versions |
|---|---|---|--|--|---|
| B GS manual valve type 8050 (long design) | E GS3-flangeless design acc. ANSI 150 F GS3-flangeless design acc. ANSI 300 K GS3-flangeless design acc. ANSI 600 G GS2-flangeless design acc. DIN PN10-40 H GS3-flangeless design acc. DIN PN100 | 0 carbon steel 1.0570/1.0619 1 stainless steel 1.4571/1.4581 | - without significance | 5 manually operated | M special versions (Pos. 7-16) A nut and nut acc. DIN EN1092-1 C nut and tongue acc. DIN EN1092-1 E 2x lowered face acc. DIN EN1092-1 H lowered and raised face acc. DIN EN1092-1 |
| 7. | 8. Stem sealing | 9. Moving disc | 10. Fixed disc | 11. Kvs-values | 12. Characteristic |
| - without significance | - PTFE-packing, self adjusting (standard) 1 additional bellows 1.4571 | - carbon material B carbon material fiber enforced 9 STN2 | - stainless steel 1.4571 1 STN2 (only in combination with the position "9" STN2-disc) | - 100% (Stand.) A red. to 63% 1 red. to 40% B red. to 25% 2 red. to 16% C red. to 10% 3 red. to 6,3% 4 red. to 2,5% 5 red. to 1% 6 red. to 20% 7 red. to 12% 8 red. to 2% 9 red. to 0,4% | - linear 1 equal percentage |

| | | |
|-------------------|--------------------|--|
| Ordering example: | 8050/125VBG1-5: | GS3-manual valve type 8050, DN 125, PN10/40, stainless steel, manual operation |
| | 8050/125VBG1-5M-1: | dto., but with bellow |

Max. Differential Pressures for GS3-Valves made of stainless steel

PN 40

| DN | Sliding unit: carbon - stainless steel, coated max. admissible diff. pressures for GS3-valves | | | | | |
|-----------------|--|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 15 - 65 | 40 | 38 | 34 | 32 | 31 | 29 |
| 80 | 40 | 38 | 34 | 32 | 31 | 29 |
| 100 | 33 | 31 | 29 | 27 | 25 | 24 |
| 125 | 23 | 21 | 20 | 19 | 18 | 17 |
| 150 | 16 | 15 | 14 | 13 | 12 | 12 |
| 200 (PN16 only) | 16 | 15 | 14 | 13 | 12 | 11,0 |
| 250 (PN16 only) | 10,5 | 10 | 9,5 | 8,4 | 7,4 | 6,9 |

| DN | Sliding unit: carbon - STN2 max. admissible diff. pressures for GS3-valves | | | | | |
|----|---|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 40 | 38 | 34 | 32 | 31 | 29 | 29 |
| 36 | 34 | 33 | 26 | 22 | 19 | 19 |
| 33 | 31 | 26 | 24 | 20 | 17 | 17 |
| 22 | 21 | 17 | 16 | 13 | 11 | 11 |
| 16 | 15 | 13 | 11 | 9 | 8 | 8 |
| - | - | - | - | - | - | - |

PN 100

| DN | Sliding unit: carbon - stainless steel, coated max. admissible diff. pressures for GS3-valves | | | | | |
|----|--|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 15 | 100 | 95 | 87 | 82 | 77 | 72 |
| 20 | 100 | 95 | 87 | 82 | 77 | 72 |
| 25 | 100 | 95 | 87 | 82 | 77 | 72 |
| 32 | 100 | 95 | 87 | 82 | 77 | 72 |
| 40 | 100 | 95 | 87 | 82 | 77 | 72 |
| 50 | 100 | 95 | 87 | 82 | 77 | 72 |
| 65 | 80 | 76 | 72 | 67 | 62 | 60 |
| 80 | 48 | 45 | 43 | 40 | 37 | 36 |

| DN | Sliding unit: STN2 max. admissible diff. pressures for GS3-valves | | | | | |
|-----|--|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 100 | 95 | 87 | 82 | 77 | 72 | 72 |
| 100 | 95 | 87 | 82 | 77 | 72 | 72 |
| 100 | 95 | 87 | 82 | 77 | 72 | 72 |
| 100 | 95 | 87 | 82 | 69 | 60 | 60 |
| 72 | 69 | 65 | 53 | 43 | 37 | 37 |
| 77 | 73 | 70 | 56 | 46 | 40 | 40 |
| 62 | 59 | 56 | 45 | 37 | 32 | 32 |
| 36 | 34 | 33 | 26 | 22 | 19 | 19 |

ANSI #150

| DN | Sliding unit: carbon - stainless steel, coated max. admissible diff. pressures for GS3-valves | | | | | |
|----------|--|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 15 - 125 | 16 | 15 | 13 | 12 | 10 | 8 |
| 150 | 16 | 15 | 13 | 12 | 10 | 8 |
| 200 | 16 | 15 | 13 | 12 | 10 | 8 |
| 250 | 10,5 | 10 | 9,5 | 8,4 | 7,4 | 6,9 |

| DN | Sliding unit: carbon - STN2 max. admissible diff. pressures for GS3-valves | | | | | |
|----|---|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 16 | 15 | 13 | 12 | 10 | 8 | 8 |
| 16 | 15 | 13 | 11 | 9,5 | 8 | 8 |
| - | - | - | - | - | - | - |

ANSI #300

| DN | Sliding unit: carbon - stainless steel, coated max. admissible diff. pressures for GS3-valves | | | | | |
|---------|--|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 15 - 65 | 40 | 38 | 35 | 33 | 31 | 30 |
| 80 | 40 | 38 | 35 | 33 | 31 | 30 |
| 100 | 33 | 31 | 29 | 27 | 25 | 24 |
| 125 | 23 | 21 | 20 | 19 | 18 | 17 |
| 150 | 16 | 15 | 14 | 13 | 12 | 12 |

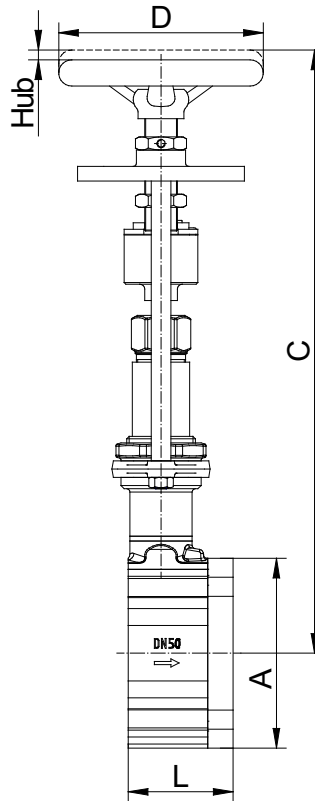
| DN | Sliding unit: carbon - STN2 max. admissible diff. pressures for GS3-valves | | | | | |
|----|---|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 40 | 38 | 35 | 32 | 31 | 29 | 29 |
| 36 | 34 | 33 | 26 | 22 | 19 | 19 |
| 33 | 31 | 26 | 24 | 20 | 17 | 17 |
| 22 | 21 | 17 | 16 | 13 | 11 | 11 |
| 16 | 15 | 13 | 11 | 9 | 8 | 8 |

ANSI #600

| DN | Sliding unit: carbon - stainless steel, coated max. admissible diff. pressures for GS3-valves | | | | | |
|---------|--|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 15 - 32 | 80 | 77 | 71 | 66 | 63 | 60 |
| 40 | 80 | 77 | 71 | 66 | 63 | 60 |
| 50 | 80 | 77 | 71 | 66 | 63 | 60 |
| 65 | 80 | 76 | 71 | 66 | 62 | 60 |
| 80 | 48 | 45 | 43 | 40 | 37 | 36 |

| DN | Sliding unit: STN2 max. admissible diff. pressures for GS3-valves | | | | | |
|----|--|-------|-------|-------|-------|-------|
| | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C |
| 80 | 77 | 71 | 66 | 63 | 60 | 60 |
| 72 | 69 | 65 | 53 | 43 | 37 | 37 |
| 77 | 73 | 70 | 56 | 46 | 40 | 40 |
| 62 | 59 | 56 | 45 | 37 | 32 | 32 |
| 36 | 34 | 33 | 26 | 22 | 19 | 19 |

Dimensions and Weights



| DN | A | C max | D | L | Weight kg | Stroke H |
|-----|-----|-------|-----|----|--------------|-------------|
| 15 | 64 | 332 | 125 | 56 | 4 | 6 |
| 20 | 72 | 337 | 125 | 56 | 4,3 | 6 |
| 25 | 82 | 342 | 125 | 56 | 4,6 | 6 |
| 32 | 89 | 344 | 125 | 56 | 4,8 | 6 |
| 40 | 99 | 347 | 125 | 56 | 5,1 | 6 |
| 50 | 116 | 362 | 125 | 64 | 6,6 | 8 |
| 65 | 138 | 372 | 125 | 68 | 8,1 | 8 |
| 80 | 153 | 377 | 125 | 70 | 9,3 | 8 |
| 100 | 184 | 392 | 125 | 75 | 12,5 | 8,5 |
| 125 | 212 | 407 | 125 | 80 | 15 | 8,5 |
| 150 | 242 | 422 | 125 | 80 | 18,5 | 8,5 |
| 200 | 302 | 452 | 125 | 93 | 35 | 8,5 |
| 250 | 360 | 479 | 125 | 96 | 40,5 | 8,5 |

Dimensions in mm

Text and pictures are not binding. We reserve the right, to alter the equipment.