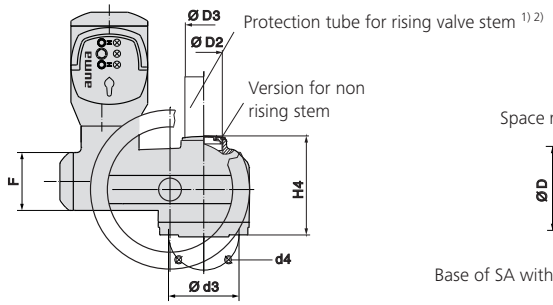
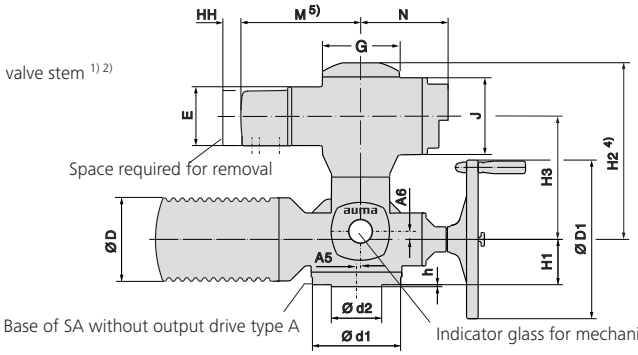
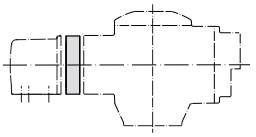
## Dimensions Multi-turn actuators with 3-phase AC motor and AM integral controls

**with AUMA plug/socket connector**

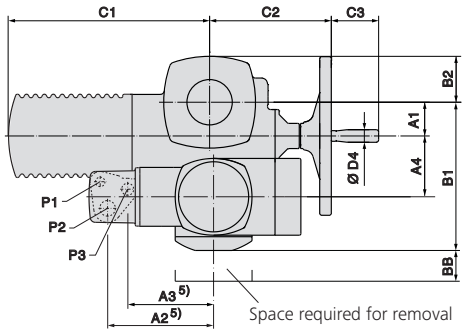


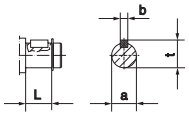



**Version 5): double sealed**

**Valve attachments according to EN ISO 5210, DIN 3210, DIN 3338**
**For dimensions see overleaf**




**Handwheel shaft**




1) Only upon specific order
2) In steps of 100 mm length each
3) Standard, other threads on request
4) Exact dimension depending on AM variant
5) Option: Enclosure protection IPxx-DS, cover for electrical connection with additional frame

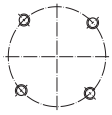
| Dimensions | SA 07.2/AM 01.1 SAR 07.2/AM 01.1 | | SA 07.6/AM 01.1 SAR 07.6/AM 01.1 | | SA 10.2/AM 01.1 SAR 10.2/AM 01.1 | SA 14.2/AM 02.1 SAR 14.2/AM 02.1 | SA 14.6/AM 02.1 SAR 14.6/AM 02.1 | SA 16.2/AM 02.1 SAR 16.2/AM 02.1 |
|---|---|---|---|---|---|---|---|---|
| EN ISO 5210 (DIN3210) | F07 | F10 (G0) | F07 | F10 (G0) | F10 (G0) | F14 (G1/2) | F14 (G1/2) | F16 (G3) |
| A1 | 40 | | 40 | | 50 | 67 | 67 | 80 |
| A2 5) | 199 (226 5)) | | 199 (226 5)) | | 199 (226 5)) | 209 (236 5)) | 209 (236 5)) | 209 (236 5)) |
| A3 5) | 159 (186 5)) | | 159 (186 5)) | | 159 (186 5)) | 169 (196 5)) | 169 (196 5)) | 169 (196 5)) |
| A4 | 103 | | 103 | | 103 | 119 | 119 | 123.5 |
| A5 | – | | – | | – | 8 | 8 | 15 |
| A6 | – | | – | | – | 16 | 16 | 20 |
| B1 | 238 | | 238 | | 248 | 286 | 286 | 303 |
| B2 | 62 | | 62 | | 65 | 91 | 91 | 117 |
| C1 | 265 | | 265 | | 283 | 389 | 389 | 430 |
| C2 | 186 | | 186 | | 191 | 242 | 245 | 271 |
| C3 | 63 | | 63 | | 63 | 94 | 94 | 94 |
| Ø D | 101 | | 101 | | 121 | 153 | 153 | 190 |
| Ø D1 | 160 | | 160 | | 200 | 315 | 400 | 500 |
| Ø D2 | G 1¼" | | G 1¼" | | G 2" | G 2½" | G 2½" | G 3" |
| Ø D3 | 42 x 3.3 | | 42 x 3.3 | | 60 x 3.7 | 76 x 3.7 | 76 x 3.7 | 89 x 4.1 |
| Ø D4 | 20 | | 20 | | 20 | 25 | 25 | 25 |
| E | 115 | | 115 | | 115 | 115 | 115 | 115 |
| F | 115 | | 115 | | 115 | 115 | 115 | 115 |
| G | 150 | | 150 | | 150 | 150 | 150 | 150 |
| H1 | 78 | | 78 | | 80 | 90 | 90 | 110 |
| H2 4) | 337 | | 337 | | 337 | 408 | 408 | 412 |
| H3 | 232 | | 232 | | 232 | 248 | 248 | 252 |
| H4 | 160 | | 160 | | 170 | 196 | 196 | 235 |
| J | 150 | | 150 | | 150 | 150 | 150 | 150 |
| L | 20 | | 20 | | 24 | 38.8 | 45.8 | 45.8 |
| M 5) | 235 (262 5)) | | 235 (262 5)) | | 235 (262 5)) | 235 (262 5)) | 235 (262 5)) | 235 (262 5)) |
| N | 171 | | 171 | | 171 | 171 | 171 | 171 |
| P1 3) | M20 x 1.5 | | M20 x 1.5 | | M20 x 1.5 | M20 x 1.5 | M20 x 1.5 | M20 x 1.5 |
| P2 3) | M32 x 1.5 | | M32 x 1.5 | | M32 x 1.5 | M32 x 1.5 | M32 x 1.5 | M32 x 1.5 |
| P3 3) | M25 x 1.5 | | M25 x 1.5 | | M25 x 1.5 | M25 x 1.5 | M25 x 1.5 | M25 x 1.5 |
| BB min. | 180 | | 180 | | 180 | 180 | 180 | 180 |
| HH min. | 30 | | 30 | | 30 | 30 | 30 | 30 |
| Ø a | 20 d7 | | 20 d7 | | 20 d7 | 30 d7 | 30 d7 | 30 d7 |
| b | 6 | | 6 | | 6 | 8 | 8 | 8 |
| Ø d1 | 90 | 125 | 90 | 125 | 125 | 175 | 175 | 210 |
| Ø d2 | 55 | 70 (60) | 55 | 70 (60) | 70 (60) | 100 | 100 | 130 |
| Ø d3 | 70 | 102 | 70 | 102 | 102 | 140 | 140 | 165 |
| d4 | 4 x M8 | 4 x M10 | 4 x M8 | 4 x M10 | 4 x M10 | 4 x M16 | 4 x M16 | 4 x M20 |
| h | 3 | | 3 | | 3 | 4 | 4 | 5 |
| t | 22.5 | | 22.5 | | 22.5 | 33 | 33 | 33 |

We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.

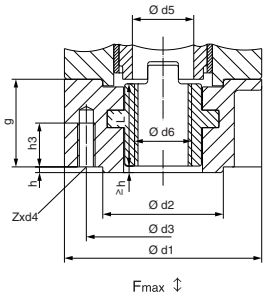
## Dimensions Valve attachments according to EN ISO 5210, DIN 3338, DIN 3210

### Stem nut

Type
EN ISO 5210 **A**
DIN 3210 **A**

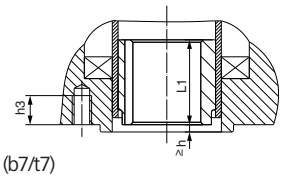


Arrangement of holes d4

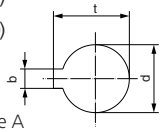



| Dimensions | | SA 07.2/SA 07.6 | | | SA 10.2 | | SA 14.2/SA 14.6 | | SA 16.2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| EN ISO 5210 | DIN 3210 | F07 | F10 | G0 | F10 | G0 | F14 | G1/2 | F16 | G3 |
| F max. kN | | 40 | 40 | 40 | 70 | 70 | 160 | | 250 | |
| Ø d1 | | 90 | 125 | 125 | 125 | 125 | 175 | | 210 | |
| Ø d2 | | 55 | 70 | 60 | 70 | 60 | 100 | | 130 | |
| Ø d3 | | 70 | 102 | 102 | 102 | 102 | 140 | | 165 | |
| d4 | | M8 | M10 | M10 | M10 | M10 | M16 | | M20 | |
| Ø d5 | | 35 | 36 | 36 | 44 | 44 | 62 | | 80 | |
| Ø d6 max. [5] | | 26 | 34 | 34 | 40 | 40 | 57 | | 75 | |
| g | | 40 | 50 | 50 | 50 | 50 | 65 | | 80 | |
| h | | 3 | 3 | 3 | 3 | 3 | 4 | | 5 | |
| h3 | | 12 | 15 | 15 | 15 | 15 | 25 | | 35 | |
| L | | 37 | 47 | 47 | 47 | 47 | 60 | | 75 | |
| Z | | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | |
| Gewicht kg | | 1.1 | 2.8 | 2.8 | 2.8 | 2.8 | 6.8 | | 11.7 | |

### Output drive sleeve [3]



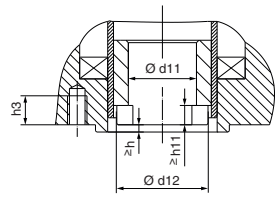

Type
EN ISO 5210 **B 1** = Ø d7 (b7/t7)
DIN 3210 **B** = Ø d7 (b7/t7)
EN ISO 5210 **B 2** < Ø d7 > Ø dy
EN ISO 5210 **B 3** = Ø d10 (b10/t10)
DIN 3210 **E** = Ø d10 (b10/t10)
EN ISO 5210 **B 4** ≤ Ø dy



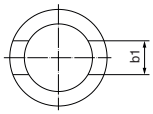

For missing dimensions, refer to type A

| Dimensions | | SA 07.2/SA 07.6 | | | SA 10.2 | | SA 14.2/SA 14.6 | | SA 16.2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| EN ISO 5210 | DIN 3210 | F07 | F10 | G0 | F10 | G0 | F14 | G1/2 | F16 | G3 |
| Ø d7 H9 | | 28 | 42 | 42 | 42 | 42 | 60 | | 80 | |
| b7 JS9 | | 8 | 12 | 12 | 12 | 12 | 18 | | 22 | |
| t7 | | 31.3 | 45.3 | 45.3 | 45.3 | 45.3 | 64.4 | | 85.4 | |
| Ø d10 H9 | | 16 | 20 | 20 | 20 | 20 | 30 | | 40 | |
| b10 JS9 | | 5 | 6 | 6 | 6 | 6 | 8 | | 12 | |
| t10 | | 18.3 | 22.8 | 22.8 | 22.8 | 22.8 | 33.3 | | 43.3 | |
| Ø dy H9 [1] | | 25 | 35 | 35 | 35 | 35 | 45 | | 60 | |
| h3 | | 12 | 13 | 13 | 15 | 15 | 25 | | 30 | |
| L1 | | 35 | 45 | 45 | 45 | 45 | 65 | | 80 | |

### Dog coupling [3]



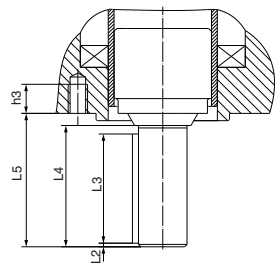

Type
DIN 3338 **C** = Ø d11



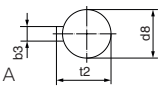

For missing dimensions, refer to type A

| Dimensions | | SA 07.2/SA 07.6 | | | SA 10.2 | | SA 14.2/SA 14.6 | | SA 16.2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| EN ISO 5210 | DIN 3210 | F07 | F10 | G0 | F10 | G0 | F14 | G1/2 | F16 | G3 |
| b1 H11 | | 14 [4] | 14 | 14 | 14 | 14 | 20 | | 24 | |
| Ø d11 H11 | | 28 [4] | 28 | 28 | 28 | 28 | 38 | | 47 | |
| Ø d11 min. | | – | 20 | 20 | 20 | 20 | 30 | | 40 | |
| Ø d11 max. [2] | | – | 42 | 42 | 42 | 42 | 60 | | 80 | |
| Ø d12 | | 36.8 | 51.8 | 51.8 | 51.8 | 51.8 | 73.8 | | 98 | |
| h3 | | 12 | 13 | 13 | 15 | 15 | 25 | | 30 | |
| h11 | | 7 [4] | 7 | 7 | 7 | 7 | 8 | | 10 | |

### Shaft end




Type
DIN 3210 **D**




For missing dimensions, refer to type A

| Dimensions | | SA 07.2/SA 07.6 | | | SA 10.2 | | SA 14.2/SA 14.6 | | SA 16.2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| EN ISO 5210 | DIN 3210 | F07 | F10 | G0 | F10 | G0 | F14 | G1/2 | F16 | G3 |
| Ø d8 g6 | | 20 | 20 | 20 | 20 | 20 | 30 | 30 | 40 | 40 |
| b3 h9 | | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 12 | 12 |
| h3 | | 12 | 13 | 13 | 15 | 15 | 25 | 25 | 30 | 30 |
| L2 | | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2 | 2 | 3 | 3 |
| L3 | | 45 | 45 | 45 | 45 | 45 | 63 | 63 | 80 | 80 |
| L4 | | 50 | 50 | 50 | 50 | 50 | 70 | 70 | 90 | 90 |
| L5 | | 55 | 55 | 55 | 55 | 55 | 76 | 76 | 97 | 97 |
| t2 | | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 33 | 33 | 43 | 43 |
| Gewicht kg | | 0.4 | 0.4 | 0.4 | 0.7 | 0.7 | 2 | 2 | 4.3 | 4.3 |

1) Dimensions b, t depend on Ø d10/Ø dy, refer to DIN 6885-1
2) For rising valve stem Ø d11 max.= Ø d5 of type A
3) Weight included in actuator
4) Dimensions not complying with DIN 3338
5) Max. bore diameter in mm