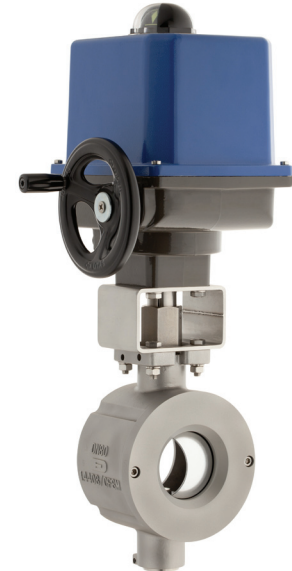


Ball Sector Motor Valve 4030

DN 25 up to DN 300



- DN 25 up to DN300
- High Kv-values up to 3840
- Excellent control characteristics
- Suitable for abrasive media
- Easily exchangeable seat ring
- Low maintenance
- Actuators can be easily fitted
- Efficient and easy to install
- optional with face to face dimension acc. ANSI ISA 75.08.02



Technical Information Valve

| | | |
|----------------------------|---|--|
| Design | DN 25 - DN 250 flangeless wafertype DN 300 flange connection | |
| Nominal sizes | DN 25 up to DN 300 | |
| Body material | cast parts turned parts | 1.4408 (CF8M) 1.4404 (316L) |
| Bearing material | high temperature plain bearing (Iglidur Z) | |
| Connection to the actuator | mounting kit DIN/ISO 5211 | |
| Nominal pressure | DN 25 - DN 50 DN 80 - DN100 DN 150 - DN 300 | PN40 (for flanges PN 10 - PN 40), ANSI300, ANSI150 PN25 (for flanges PN 10 - PN 25), ANSI150 PN16 (for flanges PN 10 - PN 16), ANSI150 |
| Fluid Temperature | -40°C up to +220°C | according to the sealings |
| Ambient temperature | -40°C up to +80°C special version on request | according to the acuator |
| Characteristic | almost equal percentage | |
| Rangeability | 100:1 | |

Valve sizes, Kvs-Values, Torques

| DN | Kvs | hole mm | rotation angle nominal * | max. press. nominal DIN | max. press. nominal ANSI | req. torque [Nm] (control) | mounting kit DIN/ISO | |
|--------|------|---------|--------------------------|-------------------------|--------------------------|----------------------------|----------------------|----------|
| | | | | | | | series 1 | series 2 |
| 25-50% | 12,5 | 15 | 65° | PN40 | ANSI 300 | 25 | F04/SW11 | F05/SW14 |
| 25 | 21 | 19 | 90° | PN40 | ANSI 300 | 25 | F04/SW11 | F05/SW14 |
| 40-50% | 34 | 25 | 60° | PN40 | ANSI 300 | 50 | F05/SW14 | F07/SW17 |
| 40 | 64 | 32 | 90° | PN40 | ANSI 300 | 50 | F05/SW14 | F07/SW17 |
| 50 | 94 | 40 | 90° | PN40 | ANSI 300 | 50 | F05/SW14 | F07/SW17 |
| 80 | 255 | 64 | 90° | PN25 | ANSI 150 | 100 | F07/SW17 | F10/SW22 |
| 100 | 390 | 80 | 90° | PN25 | ANSI 150 | 150 | F07/SW17 | F10/SW22 |
| 150 | 810 | 120 | 90° | PN16 | ANSI 150 | 250 | F10/SW22 | F12/SW27 |
| 200 | 1365 | 155 | 90° | PN16 | ANSI 150 | 350 | F12/SW27 | F14/SW36 |
| 250 | 2220 | 195 | 90° | PN16 | ANSI 150 | 600 | F12/SW27 | F14/SW36 |
| 300 | 3840 | 250 | 90° | PN16 | ANSI 150 | 1500 | F14/SW36 | F16/SW46 |

* All Valves can be rotated 90° when actuated.
 Though for valves with reduced bore holes a smaller angle of rotation is sufficient.

Valve seat combinations

| Seat ring | Ball sector | Leakage | min. temp [°C]* |
|-----------|--|--|------------------|
| PTFE | stainless steel polished or hard chrome plated or lapped | 5×10^{-7} of max. Kvs | -40 up to +170°C |
| PEEK | stainless steel polished or hard chrome plated or lapped | 5×10^{-7} of max. Kvs | -40 up to +220°C |
| Stellit | stainless steel, hard chrome plated and lapped | Class IV-S1 acc. EN 1349 (IEC 534-4) 5×10^{-6} of max. Kvs | -40 up to +220°C |
| PTFE | stainless steel, hard chrome plated and lapped | Class VI acc. EN 1349 (IEC 534-4) | -40 up to +170°C |
| Stellit | stainless steel, hard chrome plated and lapped, seat holding ring hard chrome plated | 5×10^{-6} of max. Kvs | -40 up to +220°C |

* Please note the restrictions of the o-ring material!

Shaft seals (o-ring)

| | min. temp [°C] | max. temp [°C] | comment |
|-----------------------|----------------|----------------|--------------------|
| Viton (Standard) | -15 | 200 | |
| EPDM | -40 | 140 | suitable for steam |
| NBR (P700) | -30 | 100 | |
| FFKM (Perlast/Kalrez) | -15 | 220 | suitable for steam |

special material on request

Working pressure max.

| Nominal size | maximum differential pressure (delta p) | | | | | | | | | |
|--------------|---|-----------|-----------|----------------|-----------|-----------|-----------|-------------------|-----------|-----------|
| | seat ring PTFE | | | seat ring PEEK | | | | seat ring Stellit | | |
| DN | up to 80°C bar | 120°C bar | 170°C bar | up to 80°C bar | 120°C bar | 170°C bar | 220°C bar | up to 80°C bar | 170°C bar | 220°C bar |
| 25-50 | 25 | 16 | 6 | 40 | 40 | 25 | 16 | 40 | 40 | 25 |
| 80-100 | 16 | 12 | 5 | 25 | 25 | 16 | 10 | 25 | 25 | 16 |
| 150-300 | 16 | 12 | 4 | 16 | 16 | 12 | 8 | 16 | 16 | 12 |

Ball Sector Motor Valve 4030



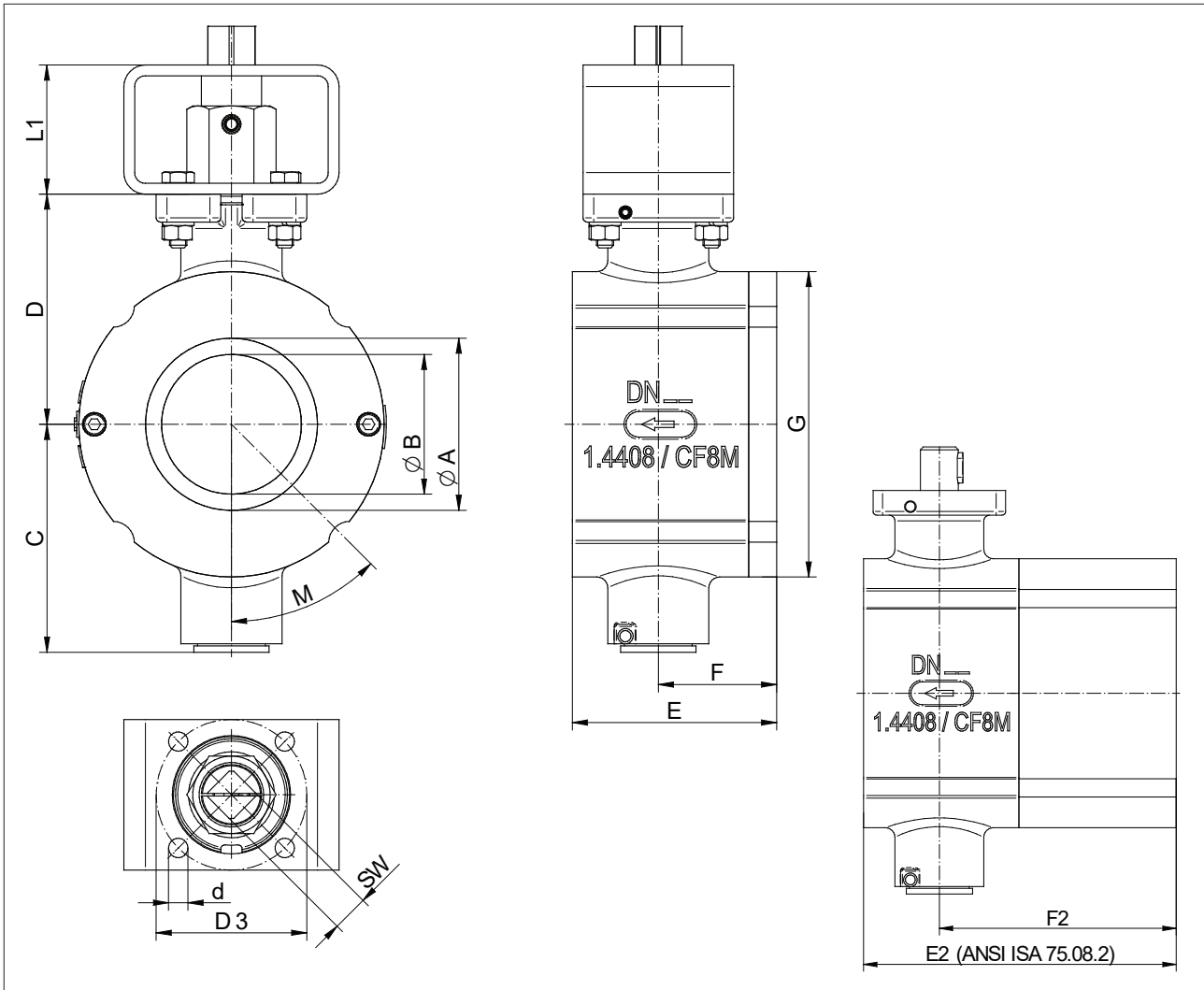
Ordering Number System

Ordering Number:

| | | | | | | | | | | | | | | | | | | | |
|-------|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|-----|
| 4030/ | | | | | | | | | | | | M | | | | | | Z | ... |
|-------|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|-----|

| | | | | | | | | | | | | | | | | | | | | |
|---|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Nominal Size | | | | | | | | | | | | | | | | | | | | |
| e.g. DN 25 = 025 | xxx | | | | | | | | | | | | | | | | | | | |
| Article | | | | | | | | | | | | | | | | | | | | |
| valve | | | | | | | | | | | | | | | | | | | | |
| repair-kit | | | | | | | | | | | | | | | | | | | | |
| seat kit | | | | | | | | | | | | | | | | | | | | |
| Connection | | | | | | | | | | | | | | | | | | | | |
| flangeless design according DIN EN 1092-1 | | | | | | | | | | | | | | | | | | | | |
| flangeless design according ASME B 16.5, ANSI 150 | | | | | | | | | | | | | | | | | | | | |
| flangeless design according ASME B 16.5, ANSI 300 | | | | | | | | | | | | | | | | | | | | |
| flangeless design for flange ASME B 16.5, ANSI 150, fitting length acc. ANSI ISA-75.08.02 | | | | | | | | | | | | | | | | | | | | |
| flangeless design for flange ASME B 16.5, ANSI 300, fitting length acc. ANSI ISA-75.08.02 | | | | | | | | | | | | | | | | | | | | |
| Body material | | | | | | | | | | | | | | | | | | | | |
| stainless steel 1.4408 / 1.4404 | | | | | | | | | | | | | | | | | | | | |
| Material combination | | | | | | | | | | | | | | | | | | | | |
| seat ring: PTFE; ball sector: 1.4408, polished | | | | | | | | | | | | | | | | | | | | |
| seat ring: PTFE; ball sector: 1.4408, hard chrome plated | | | | | | | | | | | | | | | | | | | | |
| seat ring: Stellite; ball sector: 1.4408, hard chrome plated and lapped | | | | | | | | | | | | | | | | | | | | |
| seat ring: PTFE; ball sector: 1.4408, hard chrome plated and lapped | | | | | | | | | | | | | | | | | | | | |
| seat ring: PEEK; ball sector: 1.4408, hard chrome plated | | | | | | | | | | | | | | | | | | | | |
| Seal combination | | | | | | | | | | | | | | | | | | | | |
| all seals (part 13-16) from VITON, medium temperature: -15°C to +200 | | | | | | | | | | | | | | | | | | | | |
| all seals (part 13-16) from FFKM (Perlast/Kalrez), medium temperature: -15°C to +220°C | | | | | | | | | | | | | | | | | | | | |
| all seals (part 13-16) from EPDM, medium temperature: -40°C to +140°C | | | | | | | | | | | | | | | | | | | | |
| all seals (part 13-16) from NBR(P700), medium temperature: -30°C to +100°C | | | | | | | | | | | | | | | | | | | | |
| Actuator | | | | | | | | | | | | | | | | | | | | |
| without mounting kit, without actuator | | | | | | | | | | | | | | | | | | | | |
| without actuator, with standard mounting kit according DIN/ISO 5211 | | | | | | | | | | | | | | | | | | | | |
| electrical rotary actuator (on/off, 3-point) PS-Automation, type PSQ, IP65 | | | | | | | | | | | | | | | | | | | | |
| electrical rotary actuator (on/off, 3-point) RemoteControl, type RCEL, IP67 | | | | | | | | | | | | | | | | | | | | |
| electrical quarter turn actuators (control), PS-Automation, type PSQ-AMS, IP65 | | | | | | | | | | | | | | | | | | | | |
| electrical quarter turn actuators (control), RemoteControl, type RCEL, IP67 | | | | | | | | | | | | | | | | | | | | |
| Actuator mounting: | | | | | | | | | | | | | | | | | | | | |
| standard | | | | | | | | | | | | | | | | | | | | |
| Motor voltage: | | | | | | | | | | | | | | | | | | | | |
| 230V 50/60Hz | | | | | | | | | | | | | | | | | | | | |
| 24V AC | | | | | | | | | | | | | | | | | | | | |
| 24V AC/DC | | | | | | | | | | | | | | | | | | | | |
| 24V DC | | | | | | | | | | | | | | | | | | | | |
| 115V AC | | | | | | | | | | | | | | | | | | | | |
| Special version: | | | | | | | | | | | | | | | | | | | | |
| without | | | | | | | | | | | | | | | | | | | | |
| Safety position | | | | | | | | | | | | | | | | | | | | |
| without safety position | | | | | | | | | | | | | | | | | | | | |
| safety position closed at power failure, power failure cutout (PSCP) for PSQ-AMS rotating actuators | | | | | | | | | | | | | | | | | | | | |
| Control signal | | | | | | | | | | | | | | | | | | | | |
| standard | | | | | | | | | | | | | | | | | | | | |
| Limit switches and feedback | | | | | | | | | | | | | | | | | | | | |
| standard (see motor data sheet) | | | | | | | | | | | | | | | | | | | | |
| feedback over potentiometer 1000 Ohm at on/on actuators | | | | | | | | | | | | | | | | | | | | |
| Kvs-Value | | | | | | | | | | | | | | | | | | | | |
| 100% | | | | | | | | | | | | | | | | | | | | |
| 50% | | | | | | | | | | | | | | | | | | | | |

Dimensions without actuator (with mounting kit ISO 5211)



| DN | A | B | C | D | E | F | G | L1 | d | D3 | SW | DIN/ISO 5211 |
|-----|-----|-----|-----|-----|-----|------|-----|----|------|-----|----|--------------|
| 25 | 25 | 20 | 73 | 74 | 50 | 25,5 | 73 | 60 | 6,6 | 50 | 14 | F 05 |
| 40 | 41 | 32 | 79 | 80 | 58 | 30,5 | 94 | 60 | 6,6 | 50 | 14 | F 05 |
| 50 | 53 | 40 | 82 | 83 | 71 | 37,5 | 112 | 60 | 6,6 | 50 | 14 | F 05 |
| 80 | 80 | 65 | 106 | 107 | 95 | 54,5 | 142 | 60 | 9 | 70 | 17 | F 07 |
| 100 | 100 | 80 | 117 | 118 | 112 | 64,5 | 174 | 60 | 9 | 70 | 17 | F 07 |
| 150 | 150 | 120 | 155 | 156 | 170 | 94 | 220 | 80 | 11 | 102 | 22 | F 10 |
| 200 | 200 | 155 | 184 | 185 | 210 | 119 | 280 | 80 | 13,5 | 125 | 27 | F 12 |
| 250 | 250 | 195 | 228 | 229 | 270 | 143 | 329 | 80 | 13,5 | 125 | 27 | F 12 |

| DN | E2 | F2 | ANSI ISA 75.08.2 |
|-----|-----|-----|------------------|
| 25 | 102 | 78 | |
| 40 | 114 | 87 | |
| 50 | 124 | 91 | |
| 80 | 165 | 125 | |
| 100 | 194 | 144 | |
| 150 | 229 | 154 | |
| 200 | 242 | 152 | |
| 250 | 298 | 173 | |

Dimensions of the valves incl. actuators on request.

Dimension in mm

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