# STAINLESS STEEL NORMALLY CLOSED

# 0.5-15 BAR SERVO ASSISTED SOLENOID VALVE

## Key features:

- **Servo-assisted solenoid valve**
- **Normally closed, 2-way operation**
- **316 stainless steel body (CF8M)**
- **Seal options include: NBR, FKM, EPDM, and HNBR**
- **Screwed BSP connections**
- **Sizes available: 3/8″ to 2″**
- **Pressure range: 0.5 to 15 bar**
- **Pressure rating, $\Delta P$: 0.5 to 10 bar**
- **Operating voltages: 12V DC, 24V DC, 24V AC, 110V AC, 230V AC**
- **Supplied with a cable plug**
- **ATEX approved**

## DETAILS

A servo-assisted solenoid valve offering normally closed, 2-way operation.

The valve features a stainless steel body with a choice of NBR, FKM, EPDM or HNBR seals and is available in sizes from 3/8″ to 2″.

The valve should be mounted with the coil upright.

Designed for use with neutral gases and slightly corrosive and mildly aggressive fluids.

Suitable applications include chemical process, pumping systems, processing systems, water/sewage treatment and sterilizers.

Offers high flow rates and low noise; and requires a minimum differential pressure of 0.5 bar to operate fully.

The valve has a working pressure range of 0.5 to 15 bar, a pressure rating, ΔP (differential pressure) of 0.5 to 10 bar and an ambient temperature range of -40°C to +60°C.
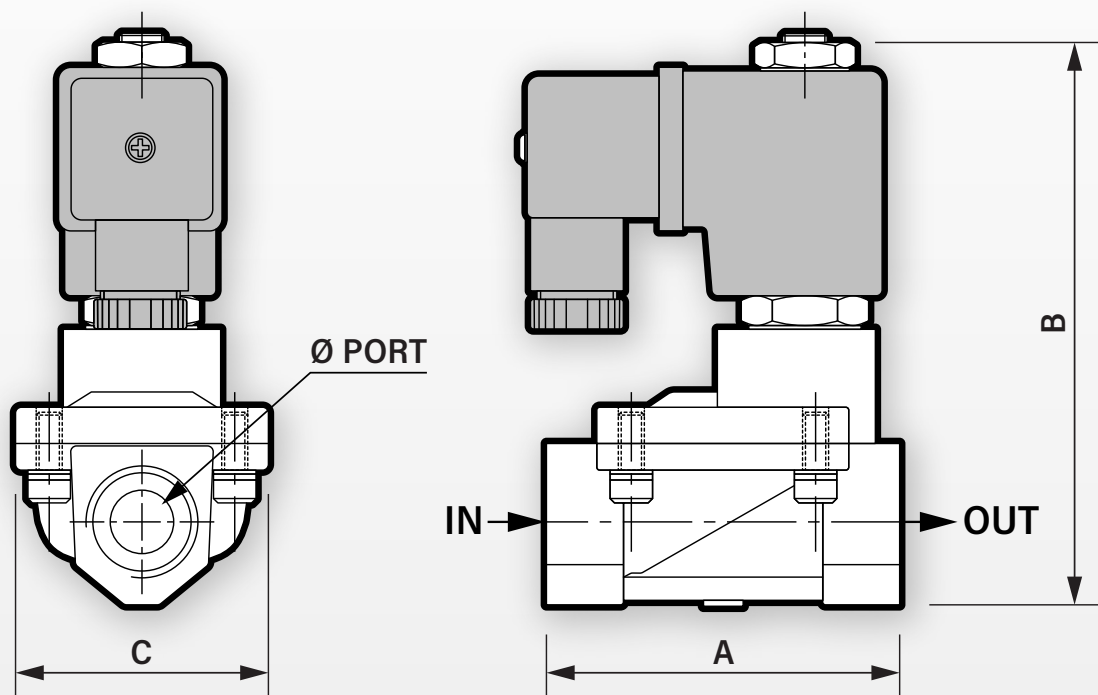
Media temperature ranges are dependant on seal materials as follows: -15°C to +80°C (NBR), -10°C to +180°C (FKM), -5°C to +130°C (EPDM) and -40°C to +150°C (HNBR).

Suitable operating voltages are 12V DC, 24V DC, 24V AC, 110V AC, and 230V AC, and supplied fitted with a cable plug.

ATEX Certified with ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C.

## TABLE 1: DIMENSIONS IN MM

| Size | A | B | C | Ø Port, BSP | Ø Orifice | Weight |
|---|---|---|---|---|---|---|
| ⅜″ | 66.5 | 106.5 | 48 | ⅜″ | 13 | 0.740 kg |
| ½″ | 66.5 | 106.5 | 48 | ½″ | 13 | 0.740 kg |
| ¾″ | 96.0 | 126.0 | 75 | ¾″ | 25 | 1.565 kg |
| 1″ | 96.0 | 126.0 | 75 | 1″ | 25 | 1.565 kg |
| 1¼″ | 131.5 | 145.5 | 101 | 1¼″ | 38 | 2.560 kg |
| 1½″ | 131.5 | 145.5 | 101 | 1½″ | 38 | 2.560 kg |
| 2″ | 160.0 | 160.0 | 118 | 2″ | 50 | 3.440 kg |

**Valves** ONLINE
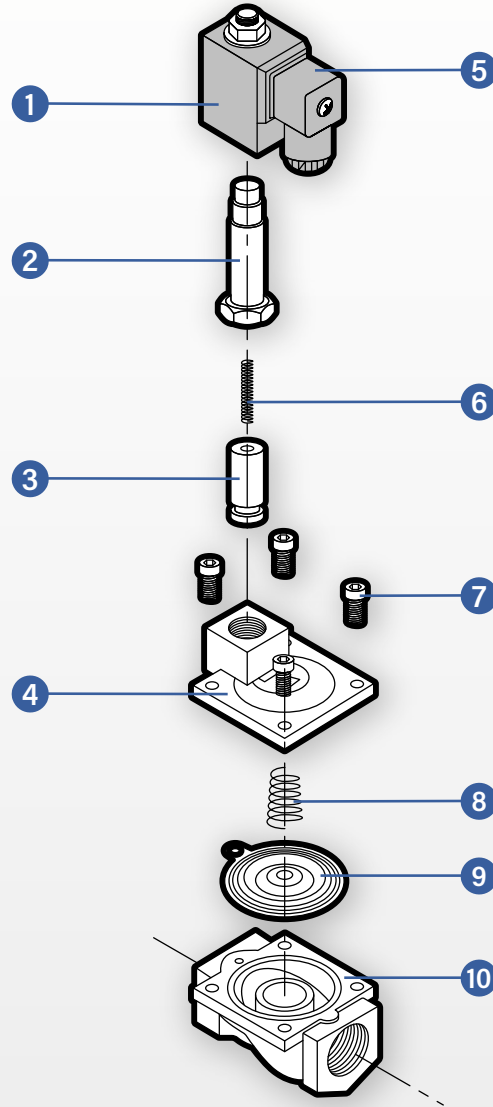


## TABLE 2: PARTS

| Item | Part |
|------|------|
| 1 | Coil |
| 2 | Armature |
| 3 | Plunger |
| 4 | Top cover |
| 5 | Connector |
| 6 | Spring |
| 7 | Screw (x4) |
| 8 | Spring |
| 9 | Diaphragm |
| 10 | Body |

## TABLE 3: FLOW (KV) IN L/MIN

| Size | Flow (Kv) |
|---|---|
| ⅜" | 40 l/min |
| ½" | 40 l/min |
| ¾" | 165 l/min |
| 1" | 165 l/min |
| 1¼" | 367 l/min |
| 1½" | 500 l/min |
| 2" | 580 l/min |

## TABLE 4: ELECTRICAL DATA

| Voltage (-10% + 10%) Continuous Duty 100% | Coil | Power Consumption Inrush | Power Consumption Holding | Insulation Class | Enclosure | Electrical Connections |
|---|---|---|---|---|---|---|
| 24V AC (50/60 Hz) 110V AC (50/60 Hz) 230V AC (50/60 Hz) | 22003 | 23VA | 17VA | H 180°C | IP65 with connector | 3 spades DN 43650 DIN 40050 VDE 0110 |
| 12V DC 24V DC | 22003 | 15 Watts | 15 Watts | H 180°C | IP65 with connector | 3 spades DN 43650 DIN 40050 VDE 0110 |

## TABLE 5: PART NUMBERS
## SEAL MATERIAL: FKM

| Size | 12V DC | 24V DC | 24V AC | 110V AC | 230V AC |
|---|---|---|---|---|---|
| ⅜" | SX5633-100530 | SX5633-100537 | SX5633-100544 | SX5633-100551 | SX5633-100558 |
| ½" | SX5633-100531 | SX5633-100538 | SX5633-100545 | SX5633-100552 | SX5633-100559 |
| ¾" | SX5633-100532 | SX5633-100539 | SX5633-100546 | SX5633-100553 | SX5633-100560 |
| 1" | SX5633-100533 | SX5633-100540 | SX5633-100547 | SX5633-100554 | SX5633-100561 |
| 1¼" | SX5633-100534 | SX5633-100541 | SX5633-100548 | SX5633-100555 | SX5633-100562 |
| 1½" | SX5633-100535 | SX5633-100542 | SX5633-100549 | SX5633-100556 | SX5633-100563 |
| 2" | SX5633-100536 | SX5633-100543 | SX5633-100550 | SX5633-100557 | SX5633-100564 |

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## TABLE 6: PART NUMBERS
## SEAL MATERIAL: NBR

| Size | 12V DC | 24V DC | 24V AC | 110V AC | 230V AC |
|------|--------|--------|--------|---------|---------|
| ⅜" | SX5633-100565 | SX5633-100572 | SX5633-100579 | SX5633-100586 | SX5633-100593 |
| ½" | SX5633-100566 | SX5633-100573 | SX5633-100580 | SX5633-100587 | SX5633-100594 |
| ¾" | SX5633-100567 | SX5633-100574 | SX5633-100581 | SX5633-100588 | SX5633-100595 |
| 1" | SX5633-100568 | SX5633-100575 | SX5633-100582 | SX5633-100589 | SX5633-100596 |
| 1¼" | SX5633-100569 | SX5633-100576 | SX5633-100583 | SX5633-100590 | SX5633-100597 |
| 1½" | SX5633-100570 | SX5633-100577 | SX5633-100584 | SX5633-100591 | SX5633-100598 |
| 2" | SX5633-100571 | SX5633-100578 | SX5633-100585 | SX5633-100592 | SX5633-100599 |

## TABLE 7: PART NUMBERS
## SEAL MATERIAL: EPDM

| Size | 12V DC | 24V DC | 24V AC | 110V AC | 230V AC |
|------|--------|--------|--------|---------|---------|
| ⅜" | SX5633-100600 | SX5633-100607 | SX5633-100614 | SX5633-100621 | SX5633-100628 |
| ½" | SX5633-100601 | SX5633-100608 | SX5633-100615 | SX5633-100622 | SX5633-100629 |
| ¾" | SX5633-100602 | SX5633-100609 | SX5633-100616 | SX5633-100623 | SX5633-100630 |
| 1" | SX5633-100603 | SX5633-100610 | SX5633-100617 | SX5633-100624 | SX5633-100631 |
| 1¼" | SX5633-100604 | SX5633-100611 | SX5633-100618 | SX5633-100625 | SX5633-100632 |
| 1½" | SX5633-100605 | SX5633-100612 | SX5633-100619 | SX5633-100626 | SX5633-100633 |
| 2" | SX5633-100606 | SX5633-100613 | SX5633-100620 | SX5633-100627 | SX5633-100634 |

## TABLE 8: PART NUMBERS
## SEAL MATERIAL: HNBR

| Size | 12V DC | 24V DC | 24V AC | 110V AC | 230V AC |
|------|--------|--------|--------|---------|---------|
| ⅜" | SX5633-100635 | SX5633-100642 | SX5633-100649 | SX5633-100656 | SX5633-100663 |
| ½" | SX5633-100636 | SX5633-100643 | SX5633-100650 | SX5633-100657 | SX5633-100664 |
| ¾" | SX5633-100637 | SX5633-100644 | SX5633-100651 | SX5633-100658 | SX5633-100665 |
| 1" | SX5633-100638 | SX5633-100645 | SX5633-100652 | SX5633-100659 | SX5633-100666 |
| 1¼" | SX5633-100639 | SX5633-100646 | SX5633-100653 | SX5633-100660 | SX5633-100667 |
| 1½" | SX5633-100640 | SX5633-100647 | SX5633-100654 | SX5633-100661 | SX5633-100668 |
| 2" | SX5633-100641 | SX5633-100648 | SX5633-100655 | SX5633-100662 | SX5633-100669 |