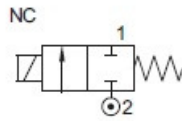


## 2/2 DIRECT ACTING NORMALLY CLOSED SOLENOID VALVE

TYPE  
20101



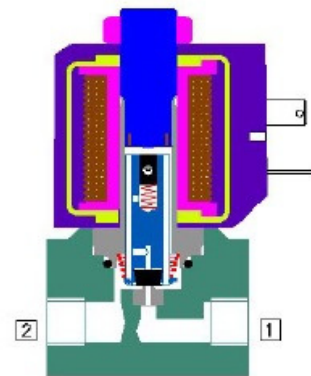
### FEATURES

- Bubble tight shut off
- Suitable for vacuum up to 10<sup>-6</sup> torr
- Vibration resistance up to 9g
- Mounts in any position
- Suitable for high speed cycling up to 1000 cycles/ min.
- Life >10 million cycles
- Manual override optionally provided

### WETTED PARTS

| Code            | ※                      | B2    | B5     |
|-----------------|------------------------|-------|--------|
| Body            | Anodized Aluminium     | Brass | SS 316 |
| Internals       | Aluminium              | Brass | SS 316 |
| Guide Assembly  | SS 304                 |       |        |
| Shadow-Ring     | Copper/ Silver/ None   |       |        |
| Plunger, Insert | SS 430                 |       |        |
| Spring          | SS 302                 |       |        |
| Seat, Seals     | NBR, Viton, EPDM, PTFE |       |        |

※ Do not specify code if opted for. Refer Page # 22 for Value of ※



### AMBIENT AND FLUID TEMPERATURE

-30 °C to 75 °C

### SPECIAL VERSION AND SUFFIX

Suffix : (Valve) OX, AM  
Special version : (Solenoid) CO, FR, SS, LC, III, TM

### MEDIA

Air, Inert Gases, Water, Vacuum, Free Flowing Liquid, Oil, Diesel, Kerosene, LPG, Furnace Oil

### APPLICATION

Dispensing, Analyzer, Drain

### PORT CONNECTION

| INLET | OUTLET |
|-------|--------|
| 2     | 1      |

### SPARES

(Refer page 25 for ordering code)

| SPARE KIT  | CODE |
|--|------|
| Seal Kit : Oring Set and Plunger Assembly  | 98   |
| Repair Kit : Oring Set, Plunger Assembly, Springs, Manual Override, Guide assembly | 99   |
| Solenoid Kit : Solenoid, Gasket and Nut  | 34   |

### APPROVAL

(★ applied for)

| Approval | Nema 4X | IP67 | Ex d IIC T4 or T5 or T6 IP66 | Ex Ia IIC T6 IP67 | DGMS | CCOE |
|----------|---------|------|------------------------------|-------------------|------|------|
| UL       | ✓       | ✓    | ✓                            | ✓                 | ✓    | ✓    |
| CE       | ✓       | ✓    | ✓                            | ✓                 |      |      |
| UL       | ✓       |      | *                            |                   |      |      |
| IP67     |         |      | ✓                            | ✓                 |      |      |
| EAC      |         |      | ✓                            | ✓                 |      |      |
| IP67     |         |      | ✓                            | ✓                 |      |      |

Contact Rotex for

- Any other ambient, fluid temperature, media and application
- UL listed, cUL Listed general purpose Valve

## 2/2 DIRECT ACTING NORMALLY CLOSED SOLENOID VALVE

### SPECIFICATION

| PORT CONNECTION | PRE-SSURE bar | VALVE TYPE | PILOT PRESSURE | BODY MATERIAL AND INTERNALS |                | SEALS |      |        |      | MANUAL OVERRIDE |                       | SOLENOID ENCLOSURE |                 | SUFFIX | POWER VA    |               | CONSTRUCTION REFERENCE NUMBER |                   |                   |                           |
|-----------------|---------------|------------|----------------|-----------------------------|----------------|-------|------|--------|------|-----------------|-----------------------|--------------------|-----------------|--------|-------------|---------------|-------------------------------|-------------------|-------------------|---------------------------|
|                 |               |            |                | ALUMINIUM                   | ALUMINIUM + SS | Viton | EPDM | HYTREL | PTFE | NIL             | STAYPUT CUM MOMENTARY | WEATHER PROOF      | EXPLOSION PROOF |        | FLYING LEAD | PLUG IN, IP67 |                               | SQ. PLUG IN, IP67 | TERMINAL BOX IP67 | EXPLOSION PROOF IIC, IP67 |

#### 2/2 NORMALLY CLOSED

| PORT CONNECTION | PRE-SSURE bar | VALVE TYPE | PILOT PRESSURE | ALUMINIUM | ALUMINIUM + SS | Viton | EPDM | HYTREL | PTFE | NIL | STAYPUT CUM MOMENTARY | FLYING LEAD | PLUG IN, IP67 | SQ. PLUG IN, IP67 | TERMINAL BOX IP67 | EXPLOSION PROOF IIC, IP67 | SOLENOID SIZE | OXYGEN | AMONIA | AC INRUSH | AC HOLDING | DC | CONSTRUCTION REFERENCE NUMBER |
|-----------------|---------------|------------|----------------|-----------|----------------|-------|------|--------|------|-----|-----------------------|-------------|---------------|-------------------|-------------------|---------------------------|---------------|--------|--------|-----------|------------|----|-------------------------------|
| 1/8" 1/4"       | 4G            | 4R         | 0 6 3.5 5      | 20101     | ✗              | B2 B5 | ✗    | S2 S1  | S8   | ✗   | M6 M8                 | F           | 22 25         | T                 | E                 | III 14                    | ✓             | ✓      | 18 12  | 8         | A          | A  |                               |
|                 |               |            | 0 8 3 4        | 20101     | ✗              | B2 B5 | ✗    | S2 S1  | S8   | ✗   | M6 M8                 | F           | 22 25         | T                 | E                 | III 14                    | ✓             | ✓      | 18 12  | 8         | A          | A  |                               |
| 3/8" 1/2"       | 3G            | 3R         | 0 12 2.5 3.5   | 20101     | ✗              | B2 B5 | ✗    | S2 S1  | S8   | ✗   | M6 M8                 | F           | 22 25         | T                 | E                 | III 14                    | ✓             | ✓      | 18 12  | 8         | A          | A  |                               |
|                 |               |            | 0 15 2.2 2.5   | 20101     | ✗              | B2 B5 | ✗    | S2 S1  | S8   | ✗   | M6 M8                 | F           | 22 25         | T                 | E                 | III 14                    | ✓             | ✓      | 18 12  | 8         | A          | A  |                               |
| 1/4" 1/2"       | 2G            | 2R         | 0 20 1.8 1.8   | 20101     | ✗              | B2 B5 | ✗    | S2 S1  | S8   | ✗   | M6 M8                 | F           | 22 25         | T                 | E                 | III 14                    | ✓             | ✓      | 18 12  | 8         | A          | A  |                               |
|                 |               |            | 0 25 1.6 1.4   | 20101     | ✗              | B2 B5 | ✗    | S2 S1  | S8   | ✗   | M12 M5                | F           | 22 25         | T                 | E                 | III 14                    | ✓             | ✓      | 18 12  | 8         | A          | A  |                               |
| 1/8" 1/4"       | 1G            | 1R         | 0 60 1.2 0.7   | 20101     | ✗              | B2 B5 |      |        |      | S8  | ✗                     | M11 M4      | F             | 22 25             | T                 | E                         | III 14        | ✓      | ✓      | 18 12     | 8          | A  |                               |
|                 |               |            | 0 150 0.8 0.5  | 20101     | ✗              | B2 B5 |      |        |      |     | S8                    | ✗           | M11 M4        | F                 | 22 25             | T                         | E             | III 14 | ✓      | ✓         | 18 12      | 8  | A                             |

#### SOLENOID 14

| Cable Entry | E <sub>Ex ia</sub> |
|-------------|--------------------|
| M20 x 1.5   | 68MS7MS            |
| M25 x 1.5   | 68 17              |
| 1/2" NPT    | 68NS7NS            |

- ✗ = Do not specify when opted for. Refer Page # 22 for Value of ✗
- ✓ = Options available
- ① = Do not Opt, for CO2 Media.
- ② = Only for CO2 Media.

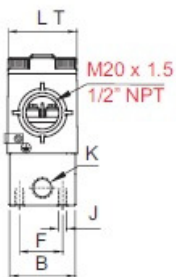
| Code | Construction Reference |
|------|------------------------|
| A    | 1, 3, 5, 7             |
| B    | 2, 4, 6, 8             |
| C    | 9, 13                  |
| D    | 10, 14                 |

### ORDERING CODE AND EXAMPLE VALVE + SOLENOID

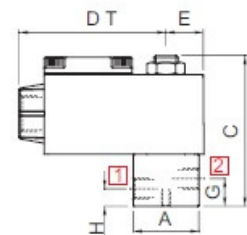
TYPE - SUFFIX - ORIFICE - PORT CONNECTION - BODY AND INTERNALS - MANUAL OVERRIDE - SEAL + SIZE - VOLTAGE - CURRENT - SOLENOID ENCLOSURE - APPROVAL - INSULATION - SPECIAL VERSION  
 eg.: 20126-4-2G+220V 50Hz-25; 20101-2.2-2R-B5-M6-S2+24V DC-37-01-H-CO-III

### DIMENSIONS

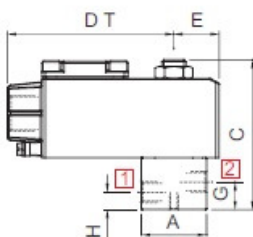
All Dimensions are in mm



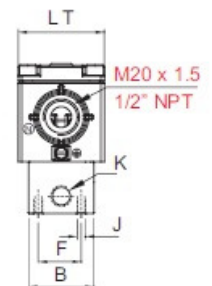
| K (PORT SIZE)      | A  | B   | C   | DP | DT | E  | F  | G    | H    | J  | LP | LT | BODY MATL. | CONST. REF. |
|--------------------|----|-----|-----|----|----|----|----|------|------|----|----|----|------------|-------------|
| VALVE TYPE : 20101 |    |     |     |    |    |    |    |      |      |    |    |    |            |             |
| 1/8", 1/4"         | 38 | 38  | 87  | 60 | 85 | 22 | 25 | 16   | 10   | M6 | 36 | 40 | AL, BR     | 1           |
| 3/8", 1/2"         | 60 | 38  | 95  | 60 | 85 | 22 | 25 | 20.5 | 20.5 | M6 | 36 | 40 | AL, BR     | 2           |
| 1/8", 1/4"         | 44 | Ø48 | 91  | 60 | 85 | 22 | 25 | 17   | 10.5 | M6 | 36 | 40 | SS         | 3           |
| 3/8", 1/2"         | 58 | Ø62 | 111 | 60 | 60 | 22 | 25 | 14   | 14   | M6 | 36 | 40 | SS         | 4           |



TERMINAL BOX/ TYPE 16, 19, 37, 39, 58, 58LT



| K (PORT SIZE)      | A  | B   | C   | DP | DT  | E  | F  | G    | H    | J  | LP  | LT | BODY MATL. | CONST. REF. |
|--------------------|----|-----|-----|----|-----|----|----|------|------|----|-----|----|------------|-------------|
| VALVE TYPE : 20101 |    |     |     |    |     |    |    |      |      |    |     |    |            |             |
| 1/8", 1/4"         | 38 | 38  | 87  | 66 | 97  | 26 | 25 | 16   | 10   | M6 | Ø50 | 50 | AL, BR     | 5           |
| 3/8", 1/2"         | 60 | 38  | 95  | 66 | 97  | 26 | 25 | 20.5 | 20.5 | M6 | Ø50 | 50 | AL, BR     | 6           |
| 1/8", 1/4"         | 44 | Ø48 | 91  | 66 | 97  | 26 | 25 | 17   | 10.5 | M6 | Ø50 | 50 | SS         | 7           |
| 3/8", 1/2"         | 58 | Ø62 | 111 | 68 | 103 | 28 | 25 | 14   | 14   | M6 | Ø50 | 50 | SS         | 8           |



TERMINAL BOX/ LARGE ENCLOSURE TYPE 16, 19, 37, 39, 58, 58LT, LC