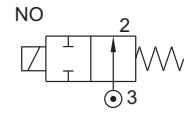


2/2 DIRECT ACTING NORMALLY OPEN SOLENOID VALVE

| TYPE | PRESSURE |
|------|----------|
| | |
| | |
| | |

| TYPE | PRESSURE |
|------|----------|
| | |
| | |
| | |

| TYPE | PRESSURE |
|-------|------------|
| 20201 | 0 - 20 bar |
| 20202 | 0 - 63 bar |
| | |



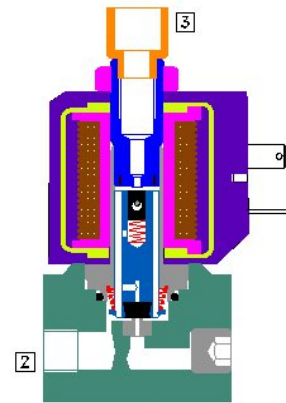
FEATURES

- Bubble tight shut off
- Manual override optionally provided
- Suitable for vacuum up to 10^{-6} torr
- Vibration resistance up to 9g
- Suitable for high speed cycling
- Speed up to 1000 cycles/ min
- Life >10 million cycles



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 | | |



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

Drain and Dispensing

PORT CONNECTION

| INLET | OUTLET |
|-------|--------|
| 3 | 2 |

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



OIL Media Temperature Restricted from 0 °C to 100 °C

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 |
|----------|---------|------|------------------------------|-------------------|------|------|
| | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CE | ✓ | ✓ | ✓ | ✓ | | |
| UL | ✓ | | * | | | |
| | | | ✓ | ✓ | | |
| | | | ✓ | ✓ | | |
| | | | ✓ | ✓ | | |



2/2 DIRECT ACTING NORMALLY OPEN SOLENOID VALVE

SPECIFICATION

| PORT CONNECTION | | | PRE-SURE bar | | ORIFICE (mm) | FLOW FACTOR Kv (LPM OF WATER @ 1 bar ΔP) | VALVE TYPE | PILOT PRESSURE | BODY MATERIAL AND INTERNALS | | | | | | SEALS | | | | | MANUAL OVERRIDE | | | SOLENOID ENCLOSURE | | | | SUFFIX | | POWER VA | | CONSTRUCTION REFERENCE NUMBER |
|-----------------|--------|--------|--------------|---------|--------------|--|------------|----------------|-----------------------------|----------------|-----------------------|----------------------------|-----|-------|-------|--------|------|-----|-----------------------|-----------------|-------------|---------------|--------------------|-------------------|---------------------------|-----------------|---------------|--------|----------|-----------|-------------------------------|
| SIZE | BSP(F) | NPT(F) | MINIMUM | MAXIMUM | | | | | ALUMINIUM | ALUMINIUM + SS | BRASS (STD. PORT NPT) | SS 316/CF8 (STD. PORT NPT) | NBR | Viton | EPDM | HYTREL | PTFE | NIL | STAYPUT CUM MOMENTARY | MOMENTARY | FLYING LEAD | PLUG IN, IP67 | SQ. PLUG IN, IP67 | TERMINAL BOX IP67 | EXPLOSION PROOF IIC, IP67 | LARGE ENCLOSURE | SOLENOID SIZE | OXYGEN | AMONIA | AC INRUSH | |

2/2 NORMALLY OPEN

| FD | FO | FU | 0 | 3 | 5 | 9 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 25 | T | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | | |
|----|----|----|---|----|-----|-----|-------|---|----|----|---|----|----|----|---|-----|----|---|----|----|---|----|-----|----|----|----|----|----|---|---|
| | | | 0 | 4 | 3 | 4 | 20201 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 22 | 25 | T | E | III | 14 | ✓ | ✓ | 18 | 12 | 8 | J |
| | | | 0 | 6 | 2.5 | 3.5 | 20201 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 22 | 25 | T | E | III | 14 | ✓ | ✓ | 18 | 12 | 8 | J |
| | | | 0 | 6 | 4 | 7 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |
| | | | 0 | 8 | 2.2 | 2.5 | 20201 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 22 | 25 | T | E | III | 14 | ✓ | ✓ | 18 | 12 | 8 | J |
| | | | 0 | 8 | 3.5 | 5 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |
| | | | 0 | 10 | 1.8 | 1.8 | 20201 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 22 | 25 | T | E | III | 14 | ✓ | ✓ | 18 | 12 | 8 | J |
| | | | 0 | 12 | 3 | 4 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |
| | | | 0 | 15 | 1.6 | 1.4 | 20201 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 22 | 25 | T | E | III | 14 | ✓ | ✓ | 18 | 12 | 8 | J |
| | | | 0 | 15 | 2.5 | 3.5 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |
| | | | 0 | 20 | 1.2 | 0.7 | 20201 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 22 | 25 | T | E | III | 14 | ✓ | ✓ | 18 | 12 | 8 | J |
| | | | 0 | 25 | 2.2 | 2.5 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M6 | M8 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |
| | | | 0 | 32 | 1.8 | 1.8 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M12 | M5 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |
| | | | 0 | 40 | 1.6 | 1.4 | 20202 | * | B2 | B5 | * | S2 | S1 | S8 | * | M12 | M5 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |
| | | | 0 | 63 | 1.2 | 0.7 | 20202 | * | B2 | B5 | | | | * | * | M11 | M4 | F | 25 | T | E | E | 18 | ✓ | ✓ | 13 | 13 | 13 | K | |

| SOLENOID 14 | | | | | |
|-------------|----|------|------|------|------|
| Cable Entry | T | Öc/ä | Öc/ä | Öc/ä | Öc/ä |
| M20 x 1.5 | FJ | FİTÜ | HJ | İİTÜ | İİTÜ |
| M25 x 1.5 | Fİ | İİ | İİ | İİ | İİ |
| 1/2" NPT | Fİ | FİPÜ | Hİ | İİPÜ | İİPÜ |

| SOLENOID 18 | | | | | |
|-------------|----|------|----|------|------|
| Cable Entry | T | Öc/ä | E | Öc/ä | Öc/ä |
| M20 x 1.5 | FJ | FİTÜ | HJ | İİTÜ | İİTÜ |
| M25 x 1.5 | Fİ | İİ | | İİ | İİ |
| 1/2" NPT | Fİ | FİPÜ | Hİ | İİPÜ | İİPÜ |

| Code | Construction Reference |
|------|------------------------|
| J | 16, 18, 20, 22 |
| K | 17, 19, 21, 26 |
| G | 23, 27 |
| H | 24, 25 |

* = Do not specify when opted for. Refer Page # 22 for Value of *
 ✓ = Options available

| | F |
|------------------|----|
| Flying lead IP54 | * |
| Flying lead IP67 | 01 |

ORDERING CODE AND EXAMPLE VALVE + SOLENOID

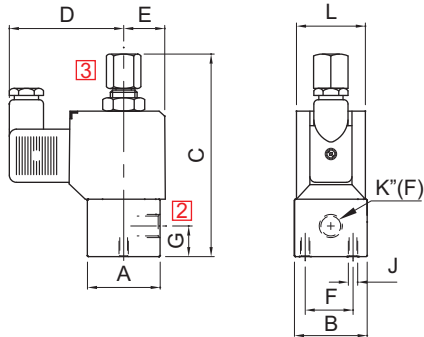
TYPE - SUFFIX - ORIFICE - PORT CONNECTION - BODY AND INTERNALS - MANUAL OVERRIDE - SEAL + SIZE - VOLTAGE - CURRENT - SOLENOID ENCLOSURE - APPROVAL - INSULATION - SPECIAL VERSION
 eg.: 20202- 5-3G+110V DC-16; 20201-3-2R-B2-M8-S1+48V DC-16



2/2 DIRECT ACTING NORMALLY OPEN SOLENOID VALVE

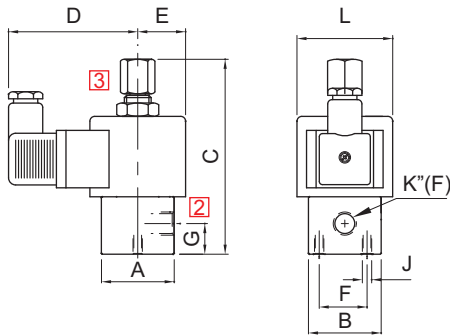
DIMENSIONS

All Dimensions are in mm



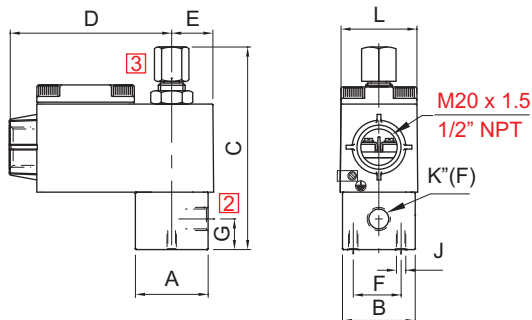
PLUG IN SOLENOID TYPE 22

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|---------------------------|----|-----|-----|----|----|----|------|----|----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8" | 38 | 38 | 103 | 60 | 22 | 25 | 16 | M6 | 36 | AL, BR | 16 |
| 3/8", 1/2" | 60 | 38 | 115 | 60 | 22 | 25 | 20.5 | M6 | 36 | AL, BR | 17 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 60 | 22 | 25 | 17 | M6 | 36 | SS | 18 |
| 3/8", 1/2" | 58 | Ø62 | 131 | 60 | 22 | 25 | 14 | M6 | 36 | SS | 19 |



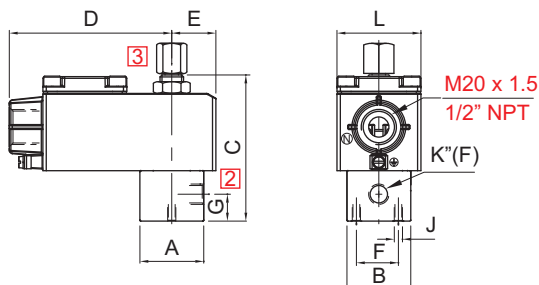
SQUARE PLUG IN SOLENOID TYPE 25

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|---------------------------|----|-----|-----|----|----|----|------|----|-----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 38 | 38 | 103 | 66 | 25 | 25 | 16 | M6 | Ø50 | AL, BR | 20 |
| 1/8", 1/4" | 60 | 38 | 115 | 66 | 25 | 25 | 20.5 | M6 | Ø50 | AL, BR | 21 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 66 | 25 | 25 | 17 | M6 | Ø50 | SS | 22 |
| 1/2" | 58 | Ø62 | 131 | 68 | 29 | 25 | 14 | M6 | Ø50 | SS | 26 |
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 50 | 50 | 124 | 68 | 25 | 25 | 17 | M6 | Ø50 | AL, BR | 23 |
| 1/8", 1/4" | 65 | 50 | 124 | 68 | 25 | 25 | 14 | M6 | Ø50 | AL, BR | 24 |
| 3/8", 1/2" | 58 | Ø62 | 131 | 68 | 29 | 25 | 14 | M6 | Ø50 | SS | 25 |
| 1/4" | 44 | Ø48 | 111 | 68 | 25 | 25 | 17 | M6 | Ø50 | SS | 27 |



TERMINAL BOX/ Ex d ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|---------------------------|----|-----|-----|----|----|----|------|----|----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 38 | 38 | 103 | 85 | 22 | 25 | 16 | M6 | 36 | AL, BR | 16 |
| 1/8", 1/4" | 60 | 38 | 115 | 85 | 22 | 25 | 20.5 | M6 | 36 | AL, BR | 17 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 85 | 22 | 25 | 17 | M6 | 36 | SS | 18 |
| 1/8", 1/4" | 58 | Ø62 | 131 | 85 | 22 | 25 | 14 | M6 | 36 | SS | 19 |



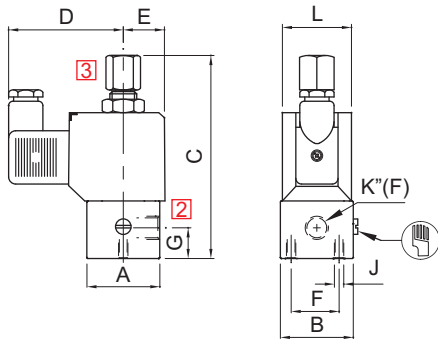
TERMINAL BOX/ Ex d LARGE ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT, LC

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|---------------------------|----|-----|-----|-----|----|----|------|----|----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 38 | 38 | 103 | 97 | 26 | 25 | 16 | M6 | 50 | AL, BR | 20 |
| 3/8", 1/2" | 60 | 38 | 115 | 97 | 26 | 25 | 20.5 | M6 | 50 | AL, BR | 21 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 97 | 26 | 25 | 17 | M6 | 50 | SS | 22 |
| 1/2" | 58 | Ø62 | 131 | 103 | 29 | 25 | 14 | M6 | 50 | SS | 26 |
| VALVE TYPE : 20202 | | | | | | | | | | | |
| 1/8", 1/4" | 50 | 50 | 124 | 103 | 28 | 25 | 17 | M6 | 50 | AL, BR | 23 |
| 3/8", 1/2" | 65 | 50 | 124 | 103 | 28 | 25 | 14 | M6 | 50 | AL, BR | 24 |
| 3/8", 1/2" | 58 | Ø62 | 131 | 103 | 29 | 25 | 14 | M6 | 50 | SS | 25 |
| 1/4" | 44 | Ø48 | 111 | 97 | 25 | 25 | 17 | M6 | 50 | SS | 27 |

1/2 DIRECT ACTING NORMALLY OPEN SOLENOID VALVE

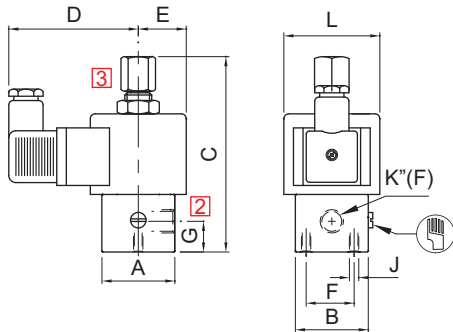
DIMENSIONS

All Dimensions are in mm



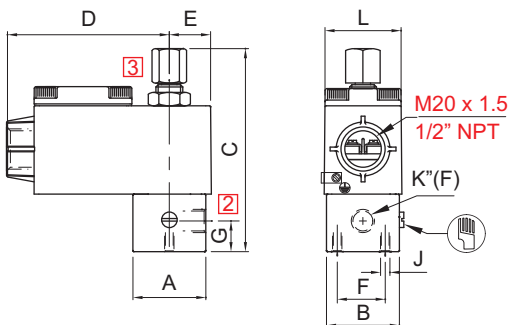
PLUG IN SOLENOID TYPE 22

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|--------------------|----|-----|-----|----|----|----|------|----|----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 38 | 38 | 103 | 60 | 22 | 25 | 16 | M6 | 36 | AL, BR | 16 |
| 3/8", 1/2" | 60 | 38 | 115 | 60 | 22 | 25 | 20.5 | M6 | 36 | AL, BR | 17 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 60 | 22 | 25 | 17 | M6 | 36 | SS | 18 |
| 3/8", 1/2" | 58 | Ø62 | 131 | 60 | 22 | 25 | 14 | M6 | 36 | SS | 19 |



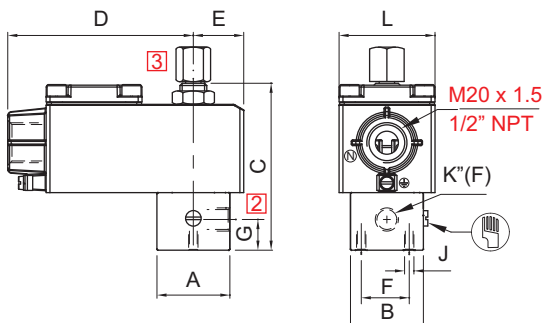
SQUARE PLUG IN SOLENOID TYPE 25

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|--------------------|----|-----|-----|----|----|----|------|----|-----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 38 | 38 | 103 | 68 | 25 | 25 | 16 | M6 | Ø50 | AL, BR | 20 |
| 3/8", 1/2" | 60 | 38 | 115 | 68 | 25 | 25 | 20.5 | M6 | Ø50 | AL, BR | 21 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 68 | 25 | 25 | 17 | M6 | Ø50 | SS | 22 |
| 1/2" | 58 | Ø62 | 131 | 68 | 29 | 25 | 14 | M6 | Ø50 | SS | 26 |
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 50 | 50 | 124 | 68 | 25 | 25 | 17 | M6 | Ø50 | AL, BR | 23 |
| 3/8", 1/2" | 65 | 50 | 124 | 68 | 25 | 25 | 14 | M6 | Ø50 | AL, BR | 24 |
| 3/8", 1/2" | 58 | Ø62 | 131 | 68 | 29 | 25 | 14 | M6 | Ø50 | SS | 25 |
| 1/4" | 44 | Ø48 | 111 | 68 | 25 | 25 | 17 | M6 | Ø50 | SS | 27 |



TERMINAL BOX/ Ex d ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|--------------------|----|-----|-----|----|----|----|------|----|----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 38 | 38 | 103 | 85 | 22 | 25 | 16 | M6 | 36 | AL, BR | 16 |
| 3/8", 1/2" | 60 | 38 | 115 | 85 | 22 | 25 | 20.5 | M6 | 36 | AL, BR | 17 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 85 | 22 | 25 | 17 | M6 | 36 | SS | 18 |
| 3/8", 1/2" | 58 | Ø62 | 131 | 85 | 22 | 25 | 14 | M6 | 36 | SS | 19 |



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

| K (PORT SIZE) | A | B | C | D | E | F | G | J | L | BODY MATL. | CONST. REF. |
|--------------------|----|-----|-----|-----|----|----|------|----|----|---------------|----------------|
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 38 | 38 | 103 | 97 | 26 | 25 | 16 | M6 | 50 | AL, BR | 20 |
| 3/8", 1/2" | 60 | 38 | 115 | 97 | 26 | 25 | 20.5 | M6 | 50 | AL, BR | 21 |
| 1/8", 1/4" | 44 | Ø48 | 111 | 97 | 26 | 25 | 17 | M6 | 50 | SS | 22 |
| 1/2" | 58 | Ø62 | 131 | 103 | 29 | 25 | 14 | M6 | 50 | SS | 26 |
| VALVE TYPE : 20201 | | | | | | | | | | | |
| 1/8", 1/4" | 50 | 50 | 124 | 103 | 28 | 25 | 17 | M6 | 50 | AL, BR | 23 |
| 3/8", 1/2" | 65 | 50 | 124 | 103 | 28 | 25 | 14 | M6 | 50 | AL, BR | 24 |
| 3/8", 1/2" | 58 | Ø62 | 131 | 103 | 29 | 25 | 14 | M6 | 50 | SS | 25 |
| 1/4" | 44 | Ø48 | 111 | 97 | 25 | 25 | 17 | M6 | 50 | SS | 27 |