ELECTRIC/HYDRAULIC VALVES | GEM & G75

GEM-S | 1/4" - 1" 2 Way NC, NO

(h) * Available on selected models only

GEM-S | 1/4" - 1" 2 Way NC, NO







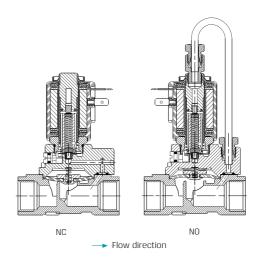


Brass | 1/4" | NC

Brass | 1/2" | NO

Stainless Steel | 3/4" | NC

Stainless Steel | 1" | NC



Technical Data

| Function | 2 Way NC, NO |
|------------------------------------|--|
| Ports size | 1/4", 3/8", 1/2", 3/4", 1" BSP & NPT |
| Pressure range | See table * Minimum pressure differential of 0.3 or 0.5 is required |
| Kv (l/min) | See table |
| Temperature range | Fluid : -10°C to 80°C (no freezing) Ambient : -10°C to 50°C |
| Materials in contact with media | Manual override: NC/N0 - Brass screw N0a* - manual override is not available *pressure is supplied through the base Main Valve: Brass, Stainless Steel AISI 316 Solenoid Operator: Stainless Steel AISI 300 & 400 series Seals: NBR, FKM, EPDM |
| Coil voltage | Voltage and power consumption - see tabl All Baccara coil voltages are ± 10% of nomina |
| Standard / Certification | UL 429 Available on selected models only. Please contact our technical sales department for details. |
| Standard protection class | IP65 with connector * Option : IP68 (please refer to GEM-BP Coil) |

Voltage & Power Consumption

| | | DC (W) | | | | | | | | | | |
|-----|---|--------|-----|---|-------|-----|---------|-----|-----|--|--|--|
| | | 50 Hz | | | 60 Hz | | DC (VV) | | | | | |
| V | 8 | 5.5 | 2.5 | 8 | 5.5 | 2.5 | 10 | 5.5 | 3.5 | | | |
| 6 | | | | | | | • | | | | | |
| 12 | • | | | • | | | • | | | | | |
| 24 | • | | | • | | | • | | | | | |
| 48 | • | | | • | | | • | | | | | |
| 110 | • | | | • | | | • | | | | | |
| 120 | • | | | • | | | | | | | | |
| 220 | • | | | • | | | • | | | | | |
| 230 | • | | | • | • | | | | | | | |
| 240 | • | | | • | | | • | | | | | |

Available options

Pressure (bar) & Flow table NO/NC GEM-S-□-20....41

| Size | Orifice | Pressu | Kv | |
|------|---------|-----------|-----------|---------|
| 5120 | (mm) | AC, DC | ADC | (l/min) |
| 1/4" | 8 | | | 12 |
| 3/8" | 8 | 0.5 to 20 | 0.5 to 15 | 16 |
| 1/2" | 12 | | | 35 |

Pressure (bar) & Flow table NO/NC GEM-S- \Box - \Box r

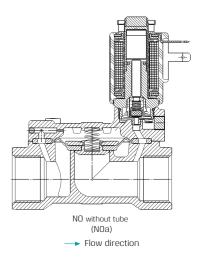
| Size | Orifice | Pressu | Kv | |
|------|---------|--------------------|-----------|---------|
| 5120 | (mm) | AC, DC | ADC | (l/min) |
| 1/2" | 16 | 6 0.5 to 20 0.5 to | | 60 |
| 3/4" | 16 | 0.01020 | 0.5 10 15 | 80 |

Pressure (bar) & Flow table NO/NC GEM-S-□-50....60

| Port Connection | Orifice (mm) | Pressure range (bar) AC, DC & ADC | Kv (l/min) |
|--------------------|-----------------|--------------------------------------|---------------|
| 3/4" | 20 | 0.3 to 15 | 130 |
| 1" | 25 | 0.5 to 15 | 200 |

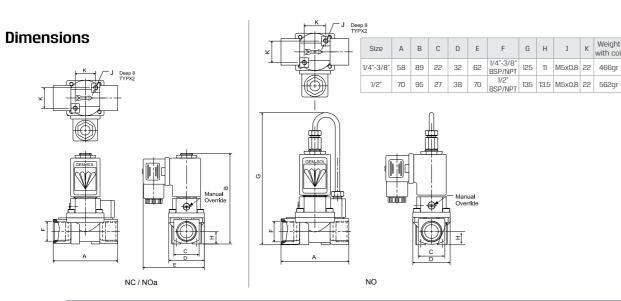
Slow closing system to prevent water hammer effect

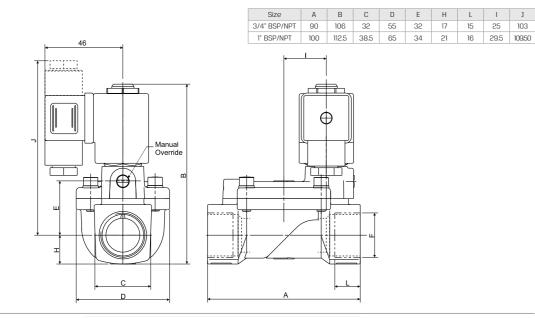


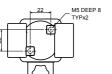


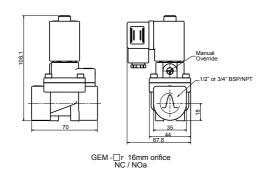
ELECTRIC/HYDRAULIC VALVES GEM & G75

GEM-S | 1/4" - 1" 2 Way NC, NO









GEM-S | 1/4" - 1" 2 Way NC, NO

How to Order

| aer | | | | | | | | | | | | | | | |
|--------------------|----------------------------|--------------------------------|--|--|--|--|---|--|--|--|--|---|---|--|--|
| BODY PORT | | BODY PORT | | FUNCTION | | SEALS | | MANUAL OVERRIDE | | VOLTA | GE | e power | | CONNECTOR | |
| Brass | 2 | 1/4" BSP | 20 | 2W NC | 1 | NBR | Ν | None | 0 | W/out coil | 0 | No coil | 0 | without | 0 |
| Stainless Steel | 3 | 1/4" NPT | 21 | 2W NO ⁽¹⁾ | 2 | FKM | v | Slot | 2 | 6 | 1 | AC8W 50Hz | 1 | with | 1 |
| | | 3/8" BSP | 30 | 2W NO ⁽²⁾ w/out tube | 2a | EPDM | Е | Knob | 3 | 12 | 2 | AC8W 60Hz | 2 | with LED | 2 |
| | | 3/8" NPT | 31 | | | | | | | 24 | 3 | DC10W | 3 | with bi- color LED | 3 |
| | | 1/2" BSP | 40 | | | | | | | 48 | 4 | | | flying leads coil | 4 |
| | | 1/2" NPT | 41 | | | | | | | 110 | 5 | | | with 1/2" Hub | 5 |
| | | 3/4" BSP | 50 | | | | | | | 120 | 6 | | | surge protec- tion with LED | 6 |
| | | 3/4" NPT | 51 | | | | | | | 220 | 7A | | | connector with moulded cable | 7 |
| | | 1" BSP | 60 | | | | | | | 230 | 7 | | | other | 9 |
| | | 1" NPT | 61 | | | | | | | 240 | 8 | | | | |
| | | | | | | | | | | Latch/ other ⁽³⁾ | 9 | | | | |
| | BODY Brass Stainless | BODY Brass 2 Stainless 2 | BODY PORT Brass 2 1/4° BSP Stainless 3 1/4° NPT Steel 3 3/8° BSP J/4° DSP 3/8° NPT 1/2° BSP J/4° BSP 3/4° BSP 3/4° BSP | BODYPORTBrass21/4° BSP20Stainless31/4° NPT21Steel33/8° BSP303/8° NPT311/2° BSP401/2° BSP403/4° BSP503/4° NPT513/4° NPT511/8 SP601/81/8 | BODYPORTFUNCTIONBrass21/4" BSP202W NC10Stainless31/4" NPT212W NO(")2W3/8" BSP30302W NO(")2W3/8" NPT311010101/2" BSP4012" NPT503/4" NPT503/4" NPT503/4" NPT50111111150111151111 | BODY PORT FUNCTION Brass 2 1/4° BSP 20 2W NO 1 Stainless 3 1/4° NPT 21 2W NO ⁽²⁾ 2 J/8° BSP 30 2W NO ⁽²⁾ 2 2 J/8° NPT 31 2 2 2 J/8° NPT 40 2 2 2 J/2° BSP 40 3 2 2 J/4° BSP 50 3 3 2 J/8° NPT 51 3 3 3 J/8° NPT 50 3 3 3 | BODYFUNCTIONSEALSBrass21/4° BSP202W NC1NBRStainless31/4° NPT212W NO(°)2FKM3/8° BSP302W NO(°)20EDDM23/8° NPT31341212° BSP401/2° BSP403/4° BSP503/4° BSP503/4° NPT511111/2° BSP601111/2° BSP11111/2° BSP11111/2° BSP11111/ | BODY PORT FUNCTION SEALS Brass 2 1/4" BSP 20 2W NC 1 NBR N Stainless 3 1/4" NPT 21 2W NO ⁽²⁾ 2 FKM V 3/8" BSP 30 2W NO ⁽²⁾ 20 EDDM E 3/8" NPT 31 3/8" BSP 40 2 FKM E 1/2" BSP 40 3/4" BSP 50 2 2 2 2 3/4" BSP 50 3/4" NPT 51 3 3 3 3 | BODY PORT FUNCTION SEALS MANUAL OVERNIT Brass 2 1/4" BSP 20 2W NC 1 NBR N None Stainless Steel 3 1/4" NPT 21 2W NO ⁽²⁾ 2 FKM V Slot 3/8" BSP 30 2W NO ⁽²⁾ 2a EPDM E Knob 3/8" NPT 31 1/2" BSP 40 1/2" BSP 40 3/4" BSP 50 3/4" NPT 51 1" BSP 60 | BODY PORT FUNCTION SEALS MANUL OVERRIDE MANUL OVERRIDE Brass 2 1/4" BSP 20 2W NC 1 NBR N None 0 Stainless Steel 3 1/4" NPT 21 2W NO ⁽²⁾ 2 FKM V Slot 2 3/8" BSP 30 2W NO ⁽²⁾ 2a EDDM E Knob 3 1/2" BSP 40 1/2" BSP 40 3/4" BSP 50 3/4" NPT 51 1" BSP 60 | BODY PORT FUNCTION SEALS MANUAL OVERRIDE P VOLTA Brass 2 1/4" BSP 20 2W NC 1 NBR N None 0 V/001 V/001 0 V/001 0 V/001 0 V/001 0 0 V/001 0 0 0 V/001 0 | BODY PORT FUNCTION SEALS MANUL OVERRIDE P VOLTAGE Brass 2 1/4" BSP 20 2W NC 1 NBR N None 0 WOUT 0 Stainless Steel 3 1/4" NPT 21 2W NO ⁽²⁾ 2 FKM V Slot 2 6 1 3/8" BSP 30 2W NO ⁽²⁾ 2a EDM E Knob 3 24 2 3/8" NPT 31 3 2 FKM V Slot 2 2 2 3/8" NPT 31 3 2 2 FKM E Knob 3 2 2 2 3/8" NPT 31 3 | BODY FUNCTION SEALS MANUAC OVERRIDE P VOLTAE POWER Brass 2 1/4" NPT 20 2W NO(*) 1 NBR N None 0 MOUINE No coil 0 AC8W Stainless Steel 3 1/4" NPT 21 2W NO(*) 2 FKM V Slot 2 6 1 AC8W 0 AC8W 60HZ 12 AC8W 6 12 AC8W 6 12 AC8W 6 12 AC8W 6 | BODY FUNCTION SEALS MANUAL OVERRIDE P VOLTAE POWER Brass 2 1/4" BSP 20 2W NO" 1 NBR N None 0 10 10 No coil 0 Stainless Steel 3 1/4" NPT 21 2W NO" 2 FKM V Slot 2 60 1 4000 0 60 1 40000 1 3/8" BSP 30 20 2W NO" 20 FDM E Knob 3 12 2 AC8W 2 2 3/8" BSP 30 20 2W NO" 20 FDM E Knob 3 12 2 AC8W 2 3/8" NPT 31 2 2 FKM V Stainless 3 C10W 3 2 3/8" NPT 31 2 2 FKM V FKM 3 2 | BODY PORT FUNCTION SEALS MANUAL OVERRIDE P VOLTAE POWER CONNECTOR Brass 2 1/4° BSP 20 2W NO 1 NBR N None 0 M(out M(out 0 M(out M(out M(out 0 M(out M(out </td |

Example : GEM-S-2202V2-321

GEM-SOL pilot operated, brass, 1/4"BSP, 2W NO, FKM seals, slot manual override, 24V AC8W 60Hz with connector



(1) Option available in 1/4" - 1/2"

(2) Without manual override

(3) For specifying Latch type coil, please refer to GEM-A3P valve - How to Order table * Note: When ordering without coil, please define what current and pressure rating is needed (DC, AC or ADC),

otherwise an ADC valve will be supplied

How to Order

GEI

| EM-S | - | BODY | | PORT | | FUNCTION | I | SEALS | | MANUAL OVERRIDE | - | VOLTAG | E | POWER | | CONNECTOR | |
|---|----|------|---|----------|-----|-------------------------|----|-------|---|--------------------|-----|--------------------------------|---|------------------------------------|-------|--------------------------------|---|
| | Bi | ass | 2 | 1/2" BSP | 40r | 2W NC | 1 | NBR | Ν | None O | | W/out coil | 0 | No coil | 0 | without | 0 |
| | | | | 1/2" NPT | 41r | 2W N0 | 2 | FKM | V | Slot 2 | | 6 | 1 | AC8W 50Hz | 1 | with | 1 |
| | | | | 3/4" BSP | 50r | 2W NO (1) w/out tube | 2a | EPDM | Е | Knob 3 | | 12 | 2 | AC8W 60Hz | 2 | with LED | 2 |
| | | | | 3/4" NPT | 51r | | | | | | | 24 | 3 | DC10W | 3 | with bi- color LED | 3 |
| | | | | | | | | | | | | 48 | 4 | | | flying leads coil | 4 |
| | | | | | | | | | | | | 110 | 5 | | | with 1/2" Hub | 5 |
| | | | | | | | | | | | | 120 | 6 | | | surge protec- tion with LED | 6 |
| i <mark>ple : GEM-S-240r1V2-321 (16mm orifice size)</mark> SOL pilot operated, brass, 1/2"BSP, 2W NC, FKM seals, | | | | | | | | | | 220 | 7A | | | connector with moulded cable | 7 | | |
| nanual override, 24V AC8W 60Hz with connector | | | | | | | | | | | 230 | 7 | | | other | 9 | |
| i - 2 | 4 | Or 1 | | V | 2 | - 3 2 | | 1 | | | | 240 | 8 | | | | |
| | | | | | | | | | | | | Latch/ other ⁽²⁾ | 9 | | | | |

Exampl GEM-SC slot ma



(1) Without manual override.

(2) For specifying Latch type coil, please refer to GEM-A3P valve - How to Order table

* Note: When ordering without coil, please define what current and pressure rating is needed (DC, AC or ADC), otherwise an ADC valve will be supplied

* To order valves manufactured according to your specific requirements, please contact our technical sales department

