

3-weg kogelkraan

Artikelnummers

6300 - 6300A,

6300E - 6300F

6311A - 6311B



3-weg kogelkraan

The handle of the "SECURITY" 3-way ball valves has three additional functions to the opening and closing of the valve: first, a trigger with an opening gauge which let you know if the correct position has been reached; second, the possibility to block the position through a lock in order to avoid inappropriate handlings; and third, the adjustment of the teflon adaptor torque.



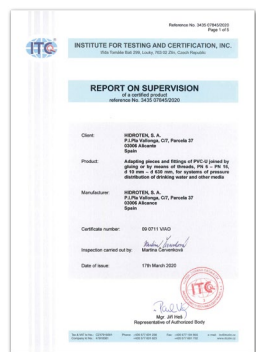
All the internal elements of the "SECURITY" 3-way ball valve are totally mechanized so as to ensure the perfect adjustment. The threaded teflon adaptors perfectly centre the ball, which is a key factor for an optimal operation, as well as a constant torque which is independent of the nut torque.



The rod of the "SECURITY" valve includes a gauge to know its position even if the handle is not installed. It is really useful at motorizing the valve once it has been installed, as it allows you to always place the actuator in the correct position, making the operation easier.



CERTIFICACIONES / CERTIFICATIONS



En tuberías según norma UNE-EN 1452 (PVC-U) y UNE-EN 12201 (PE).

Inside the pipes according to the standard UNE-EN 1452 (PVC-U) and UNE-EN 12201 (PE).

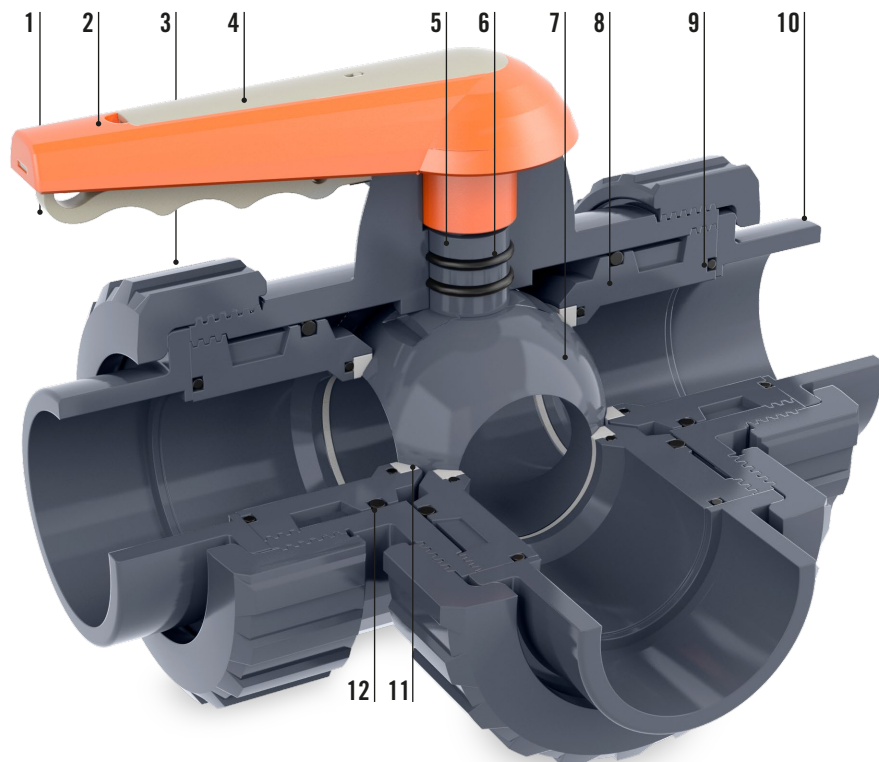


3-weg kogelkraan

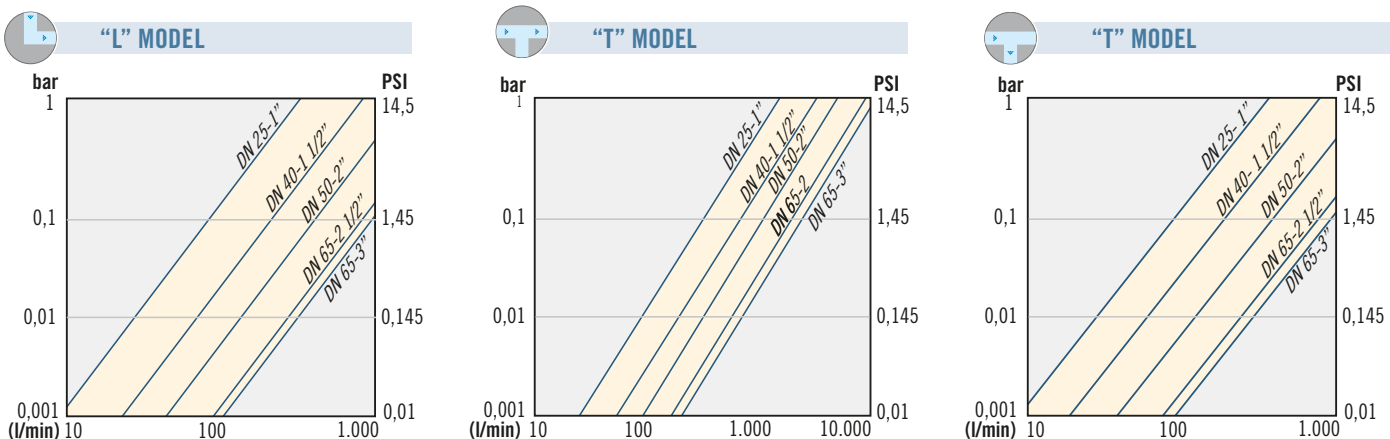
| | |
|---------------------|--|
| SECTOR | Industry, water treatment, swimming pool and agriculture |
| MATERIAL | PVC-U, option PPR |
| BALL CLOSING | PTFE |
| O-RING | EPDM option VITON (identified by black handle) |
| HANDLE | Triple function: trigger with position indicator, security block and torque adjustment. |
| ACTUATION | Direct actuation with ISO 5211 fixation. Electric, single and double acting pneumatic actuation options. |
| PN | PN 16 from Ø32 to 63 PN 10 from Ø75 -90 |
| MEASURES | From Ø32 to 90 |

QUARTERING

1. PA trigger
2. GFPP handle
3. PVC-U nut
4. PA cap handle
5. PVC-U piston rod
6. EPDM or VITON o-ring
7. PVC-U ball (L option)
8. PVC-U port teflon
9. EPDM or VITON o-ring
10. PVC-U outlet
11. PTFE ball seal
12. EPDM or VITON ball seal holder



LOAD LOSS CURVES



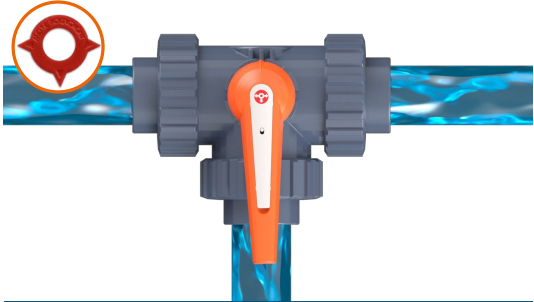
3-weg kogelkraan

FLOW INDICATOR



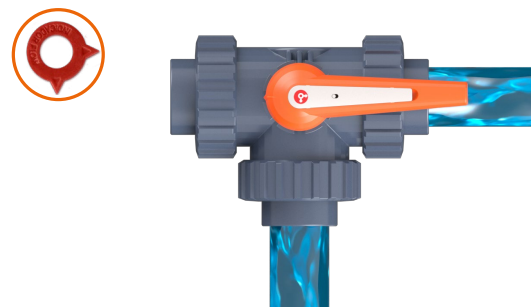
"L" Model

"T" Model



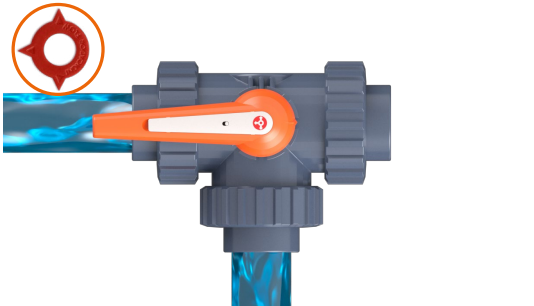
2 ways open

3 ways open



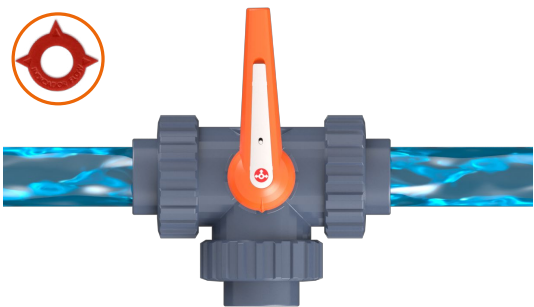
2 ways open

2 ways open



1 way open

2 ways open



1 way open

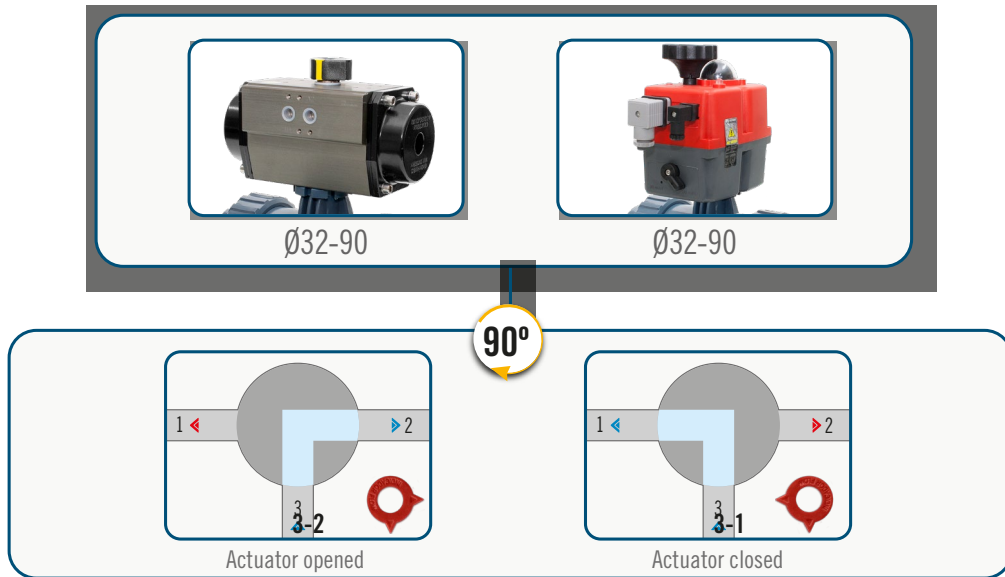
2 ways open

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ACTUATION OPTIONS

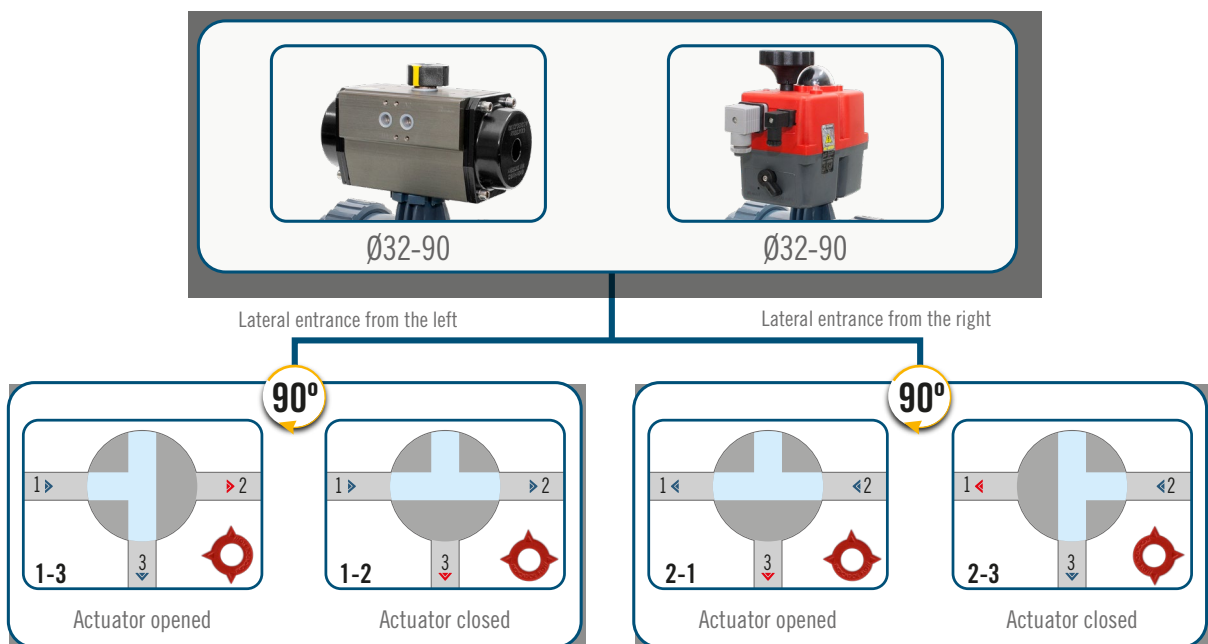
ASSEMBLY ACTUATOR MODEL "L"

The assembly diagram shows the installation position of the actuators in the three-way valves with L type ball, from which enters the fluid to the main inlet. You must take in consideration that the actuators always turn clockwise for the closing manoeuvre and counter clockwise for the opening.



ASSEMBLY ACTUATOR MODEL "T"

In the valves with ball type T, the most usual is that the entrance is made by one of the lateral inlets, making different the location of the actuator in both cases, as it is shown in the images.



In T model, contact us for other positions, as an actuator with a turn higher than 90° may be necessary.

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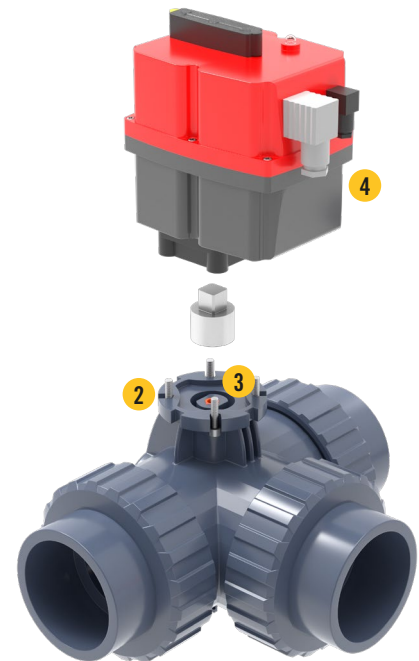
ELECTRIC ACTUATORS CHARACTERISTICS

| Specifications | L10 | H10 | B20 | S20 | B35 | S35 | B55 | S55 |
|--|--------------------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|
| Voltage (V) | 24 VAC/VDC | 85-240 VAC/VDC | 12 VAC/VDC | 24-240 VAC/VDC | 12 VAC/VDC | 24-240 VAC/VDC | 12 VAC/VDC | 24-240 VAC/VDC |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Operation time unload (s) | 17 | 17 | 10 | 10 | 10 | 10 | 13 | 14 |
| Maneuver coupling (Nm) | 10 | 10 | 20 | 20 | 35 | 35 | 55 | 55 |
| Starting coupling (Nm) | 12 | 12 | 25 | 25 | 38 | 38 | 60 | 60 |
| Time under pressure (%) | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Protection IEC 60529 | IP-65 | IP-65 | IP-67 | IP-67 | IP-67 | IP-67 | IP-67 | IP-67 |
| Maneuver angle (°) | 90° - 270° | | | | | | | |
| Temperature (°C) | -20°C +70°C | | | | | | | |
| Switch box assy | 4 SPDT micro | | | | | | | |
| Heater resistance (W) | 3,5 | | | | | | | |
| Connectors | DIN 43650 ISO 440 & C192 | | | | | | | |
| Connection ISO 5211 | F-03 F-05 | | F-05 F-04 F-05 | | F-05 F-04 F-05 | | F-07 F-07 | |
| Connection DIN 3337 - Standard double frame/optional | 14 / 9 ø 11 | | 14 / 9 ø 11 | | 14 / 9 ø 11 | | 17 / 11 ø 14 | |
| Weight (kg) | 0,9 | 0,9 | 1,8 | 1,8 | 1,9 | 1,9 | 2,4 | 2,4 |

- Electric multi-voltage actuator, rotation of ¼" revolution.
- Electronic control of the coupling in order to ensure a smooth functioning and to suspend alimentation if it exceeds the maximal coupling (obstructions), which protects the actuator mechanism.
- Visual control of the operation by means of an external LED showing the actuator state.
- Emergency manual command, by selecting the manual use, the engine gets isolated from the gear assembly and it is possible to act the valve manually.
- Automatic temperature control, by means of an inner heater to maintain the internal temperature between 20 and 30°C, avoiding damages that could be caused by condensation.
- Anticorrosive materials for an optimal functional in any environment.
- Option of digital positioner DPS 2005 for control signals 4-20mA 0-10V.
- Option of security closing using batteries, BSR system.

1

Actuation 3-way ball valve "Security".



| N. | SECUENCIA / SEQUENCE |
|----|----------------------|
| 1 | 3-way valve |
| 2 | Support |
| 3 | Flow indicator |
| 4 | Actuator |

3-weg kogelkraan

PNEUMATIC ACTUATORS CHARACTERISTICS

Single acting ensures the opening by means of air and the closing by means of security springs.

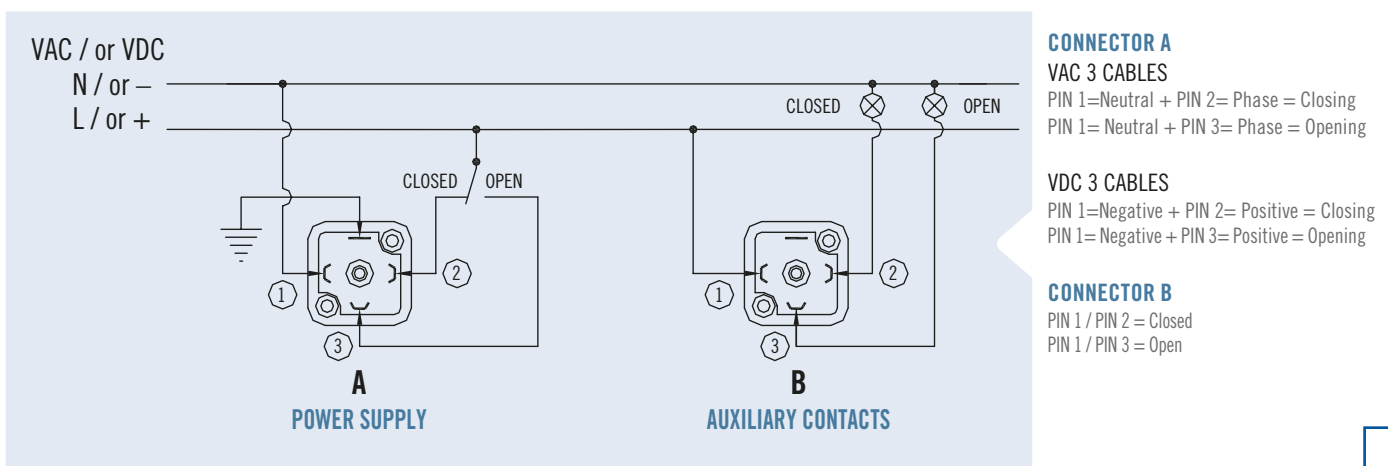
| MODEL | CONSUMPTION | SPRING TORQUE | | FEEDER TORQUE | | WEIGHT | Air pressure 6 bar maneuver time | |
|---------|-------------|---------------|------|---------------|------|--------|----------------------------------|---------|
| | | 0° | 90° | 0° | 90° | | OPENING | CLOSING |
| H050 SE | 0,23 | 11,5 | 7,0 | 11,5 | 7,0 | 1,2 | 0,6 | 0,6 |
| H063 SE | 0,45 | 18,5 | 12,5 | 18,5 | 12,5 | 1,8 | 0,7 | 0,9 |
| H075 SE | 0,61 | 45,1 | 25,3 | 45,2 | 25,3 | 3,3 | 0,6 | 1 |
| H100 SE | 1,8 | 106,4 | 60,0 | 106,4 | 60,2 | 6,8 | 1,1 | 1,3 |

Double acting ensures both opening and closing movement using air.

| MODELO MODEL | CONSUMO CONSUMPTION (Lt/ciclo) | PAR ACTUADOR MODEL | PESO ACTUADOR (Kg.) ACTUATOR WEIGHT | Presión aire 6 bar tiempo maniobra (sec.) / Air pressure 6 bar maneuver time | |
|-----------------|--------------------------------------|-----------------------|--|--|-------------------|
| | | | | APERTURA OPENING | CIERRE CLOSING |
| H050 DE | 0,23 | 18,5 Nm | 1,07 | 0,6 | 0,6 |
| H075 DE | 0,61 | 70,2 Nm | 2,90 | 0,6 | 0,7 |

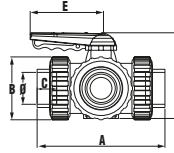
- Finish of the body lower surface (Ra 0.4-0.6 um) to reduce at minimum the friction and maximize the actuator life. Body external protection: strong anodized 500Hrs. Salt fog chamber according to ASTM B117 -73. Lid external protection: epoxy-polyester coating.
- Slipping skates, low friction quotient material (LAT LUB) avoiding metal-metal contact, easily replaceable, for its maintenance with lower double hole for anchoring and centering of the valve according to ISO 5211 and DIN 3337 standards.
- Lower connection with female square shape axis according to ISO 5211/ DIN 3337 for 45° or 90° assembly, without distinction.
- Direct assembly of electrovalve NAMUR STANDARD / Fitting assembly according to NAMUR VDI/DE 3845.
- Working temperature from -20°C to +80°C.
- Motion limiter for opening and closing; Control of functioning and impermeability 100% through the electronic system. Individual certification.

ELECTRICAL CONNECTION DIAGRAMS



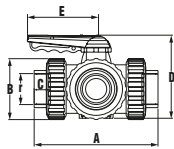
3-weg kogelkraan

3-WAY BALL VALVE "SECURITY"

6300
6300A


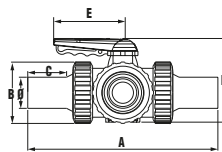
Solvent socket outlet

| NKI Art. Nr. | CODE | MODEL | Ø PIPE | DN | WT (g.) | A | B | C | D | E |
|--------------|--------|-------|--------|----|---------|-----|-----|----|-----|-----|
| 6300-L00032 | 11V103 | L | 32 | 25 | 712 | 160 | 72 | 22 | 121 | 114 |
| 6300-L00040 | 11V824 | L | 40 | 40 | 1.644 | 214 | 103 | 26 | 155 | 140 |
| 6300-L00050 | 11V105 | L | 50 | 40 | 1.653 | 216 | 103 | 31 | 155 | 140 |
| 6300-L00063 | 11V106 | L | 63 | 50 | 2.549 | 251 | 120 | 38 | 172 | 140 |
| 6300-L00075 | 11V107 | L | 75 | 65 | 5.008 | 308 | 150 | 45 | 218 | 160 |
| 6300-L00090 | 11V828 | L | 90 | 65 | 5.317 | 332 | 150 | 51 | 218 | 160 |
| 6300-T00032 | 11V143 | T | 32 | 25 | 708 | 160 | 72 | 22 | 121 | 114 |
| 6300-T00040 | 11V834 | T | 40 | 40 | 1.634 | 214 | 103 | 26 | 155 | 140 |
| 6300-T00050 | 11V145 | T | 50 | 40 | 1.643 | 216 | 103 | 31 | 155 | 140 |
| 6300-T00063 | 11V146 | T | 63 | 50 | 2.531 | 251 | 120 | 38 | 172 | 140 |
| 6300-T00075 | 11V147 | T | 75 | 65 | 4.968 | 308 | 150 | 45 | 218 | 160 |
| 6300-T00090 | 11V838 | T | 90 | 65 | 5.277 | 332 | 150 | 51 | 218 | 160 |

850/854


Threaded female outlet

| | CODE | MODEL | r | DN | WT (g.) | A | B | C | D | E |
|--|--------|-------|--------|----|---------|-----|-----|----|-----|-----|
| | 11V113 | L | 1" | 25 | 736 | 162 | 72 | 23 | 121 | 114 |
| | 11V115 | L | 1 1/2" | 40 | 1.731 | 210 | 103 | 33 | 155 | 140 |
| | 11V116 | L | 2" | 50 | 2.618 | 261 | 120 | 29 | 172 | 140 |
| | 11V117 | L | 2 1/2" | 65 | 5.113 | 322 | 150 | 33 | 218 | 160 |
| | 11V153 | T | 1" | 25 | 732 | 162 | 72 | 23 | 121 | 114 |
| | 11V155 | T | 1 1/2" | 40 | 1.721 | 210 | 103 | 33 | 155 | 140 |
| | 11V156 | T | 2" | 50 | 2.600 | 261 | 120 | 29 | 172 | 140 |
| | 11V157 | T | 2 1/2" | 65 | 5.073 | 322 | 150 | 33 | 218 | 160 |

852/856


Thermofusion outlet

| CODE | CODE | MODEL | Ø PIPE | DN | WT (g.) | A | B | C | D | E |
|--------|--------|-------|--------|----|---------|-----|-----|----|-----|-----|
| 11V033 | 11V133 | L | 32 | 25 | 736 | 262 | 72 | 70 | 121 | 114 |
| 11V035 | 11V135 | L | 50 | 40 | 1.707 | 356 | 103 | 79 | 155 | 140 |
| 11V036 | 11V136 | L | 63 | 50 | 2.663 | 401 | 120 | 89 | 172 | 140 |
| 11V037 | 11V137 | L | 75 | 65 | 5.053 | 452 | 150 | 95 | 218 | 160 |
| 11V098 | 11V498 | L | 90 | 65 | 5.383 | 460 | 150 | 99 | 218 | 160 |
| 11V073 | 11V173 | T | 32 | 25 | 732 | 262 | 72 | 70 | 121 | 114 |
| 11V075 | 11V175 | T | 50 | 40 | 1.697 | 356 | 103 | 79 | 155 | 140 |
| 11V076 | 11V176 | T | 63 | 50 | 2.645 | 401 | 120 | 89 | 172 | 140 |
| 11V077 | 11V177 | T | 75 | 65 | 5.013 | 452 | 150 | 95 | 218 | 160 |
| 11V188 | 11V908 | T | 90 | 65 | 5.343 | 460 | 150 | 99 | 218 | 160 |

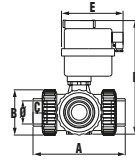
3-weg kogelkraan

ELECTRIC ACTUATOR 230V.



6311

PTFE VITON



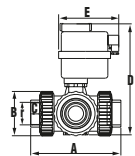
Solvent socket outlet

| NKI Art. Nr. | CODE | MODEL | Ø PIPE | MOTOR | DN | WT (g.) | A | B | C | D | E |
|--------------|--------|-------|--------|-------|----|---------|-----|-----|----|-----|-----|
| 6300-000032 | 11V503 | L | 32 | H10 | 25 | 1.612 | 160 | 72 | 22 | 220 | 169 |
| 6300-000040 | 11V844 | L | 40 | S20 | 40 | 3.444 | 214 | 103 | 26 | 279 | 177 |
| 6300-000050 | 11V505 | L | 50 | S20 | 40 | 3.453 | 216 | 103 | 31 | 279 | 177 |
| 6300-200063 | 11V506 | L | 63 | S35 | 50 | 4.449 | 251 | 120 | 38 | 318 | 177 |
| 6300-000075 | 11V507 | L | 75 | S55 | 65 | 7.408 | 308 | 150 | 45 | 384 | 177 |
| 6300-000090 | 11V848 | L | 90 | S55 | 65 | 7.717 | 332 | 150 | 51 | 384 | 177 |
| 6311-T23032 | 11V543 | T | 32 | H10 | 25 | 1.608 | 160 | 72 | 22 | 220 | 169 |
| 6311-T23040 | 11V854 | T | 40 | S20 | 40 | 3.434 | 214 | 103 | 26 | 279 | 177 |
| 6311-T23050 | 11V545 | T | 50 | S20 | 40 | 3.443 | 216 | 103 | 31 | 279 | 177 |
| 6311-T23063 | 11V546 | T | 63 | S35 | 50 | 4.431 | 251 | 120 | 38 | 318 | 177 |
| 6300-T23075 | 11V547 | T | 75 | S55 | 65 | 7.368 | 308 | 150 | 45 | 384 | 177 |
| 6300-T23090 | 11V858 | T | 90 | S55 | 65 | 7.677 | 332 | 150 | 51 | 384 | 177 |



858/862

PTFE VITON

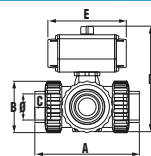


Threaded female outlet

| CODE | CODE | MODEL | r | MOTOR | DN | WT (g.) | A | B | C | D | E |
|--------|--------|-------|--------|-------|----|---------|-----|-----|----|-----|-----|
| 11V213 | 11V513 | L | 1" | H10 | 25 | 1.636 | 162 | 72 | 23 | 220 | 169 |
| 11V215 | 11V515 | L | 1 1/2" | S20 | 40 | 3.531 | 210 | 103 | 33 | 279 | 177 |
| 11V216 | 11V516 | L | 2" | S35 | 50 | 4.518 | 261 | 120 | 29 | 318 | 177 |
| 11V217 | 11V517 | L | 2 1/2" | S55 | 65 | 7.513 | 322 | 150 | 33 | 384 | 177 |
| 11V253 | 11V553 | T | 1" | H10 | 25 | 1.632 | 162 | 72 | 23 | 220 | 169 |
| 11V255 | 11V555 | T | 1 1/2" | S20 | 40 | 3.521 | 210 | 103 | 33 | 279 | 177 |
| 11V256 | 11V556 | T | 2" | S35 | 50 | 4.500 | 261 | 120 | 29 | 318 | 177 |
| 11V257 | 11V557 | T | 2 1/2" | S55 | 65 | 7.473 | 322 | 150 | 33 | 384 | 177 |

3-weg kogelkraan

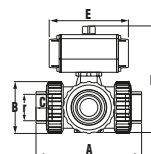
PNEUMATIC ACTUATOR SIMPLE ACTING



Solvent socket outlet

6311A


| NKI Art. Nr. | CODE | MODEL | Ø PIPE | MOTOR | DN | WT (g.) | A | B | C | D | E |
|--------------|--------|-------|--------|---------|----|---------|-----|-----|----|-----|-----|
| 6311-200032 | 11V583 | L | 32 | H050 SE | 25 | 1.912 | 160 | 72 | 22 | 183 | 138 |
| 6311-200040 | 11V864 | L | 40 | H063 SE | 40 | 3.544 | 214 | 103 | 26 | 233 | 156 |
| 6311-200050 | 11V585 | L | 50 | H063 SE | 40 | 3.553 | 216 | 103 | 31 | 233 | 156 |
| 6311-200063 | 11V586 | L | 63 | H075 SE | 50 | 5.919 | 251 | 120 | 38 | 267 | 210 |
| 6311-200075 | 11V587 | L | 75 | H100 SE | 65 | 11.828 | 308 | 150 | 45 | 333 | 280 |
| 6311-200090 | 11V868 | L | 90 | H100 SE | 65 | 12.137 | 332 | 150 | 51 | 333 | 280 |
| 6311-300032 | 11V623 | T | 32 | H050 SE | 25 | 1.908 | 160 | 72 | 22 | 183 | 138 |
| 6311-300040 | 11V874 | T | 40 | H063 SE | 40 | 3.534 | 214 | 103 | 26 | 233 | 156 |
| 6311-300050 | 11V625 | T | 50 | H063 SE | 40 | 3.543 | 216 | 103 | 31 | 233 | 156 |
| 6311-300063 | 11V626 | T | 63 | H075 SE | 50 | 5.901 | 251 | 120 | 38 | 267 | 210 |
| 6311-300075 | 11V627 | T | 75 | H100 SE | 65 | 11.788 | 308 | 150 | 45 | 333 | 280 |
| 6311-300090 | 11V878 | T | 90 | H100 SE | 65 | 12.097 | 332 | 150 | 51 | 333 | 280 |



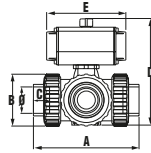
Threaded female outlet

866/870


| CODE | CODE | MODEL | r | MOTOR | DN | WT (g.) | A | B | C | D | E |
|--------|--------|-------|--------|---------|----|---------|-----|-----|----|-----|-----|
| 11V293 | 11V593 | L | 1" | H050 SE | 25 | 1.936 | 162 | 72 | 23 | 183 | 138 |
| 11V295 | 11V595 | L | 1 1/2" | H063 SE | 40 | 3.631 | 210 | 103 | 33 | 233 | 156 |
| 11V296 | 11V596 | L | 2" | H075 SE | 50 | 5.988 | 261 | 120 | 29 | 267 | 210 |
| 11V297 | 11V597 | L | 2 1/2" | H100 SE | 65 | 11.933 | 322 | 150 | 33 | 333 | 280 |
| 11V333 | 11V633 | T | 1" | H050 SE | 25 | 1.932 | 162 | 72 | 23 | 183 | 138 |
| 11V335 | 11V635 | T | 1 1/2" | H063 SE | 40 | 3.621 | 210 | 103 | 33 | 233 | 156 |
| 11V336 | 11V636 | T | 2" | H075 SE | 50 | 5.970 | 261 | 120 | 29 | 267 | 210 |
| 11V337 | 11V637 | T | 2 1/2" | H100 SE | 65 | 11.893 | 322 | 150 | 33 | 333 | 280 |

3-weg kogelkraan

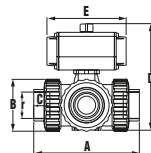
PNEUMATIC ACTUATOR DOUBLE ACTING



Solvent socket outlet

6311B

| NKI Art. Nr. | CODE | MODEL | Ø PIPE | MOTOR | DN | WT. (g.) | A | B | C | D | E |
|--------------|--------|-------|--------|---------|----|----------|-----|-----|----|-----|-----|
| 6311-400032 | 11V663 | L | 32 | H050 DE | 25 | 1.782 | 160 | 72 | 22 | 183 | 138 |
| 6311-400040 | 11V884 | L | 40 | H050 DE | 40 | 2.714 | 214 | 103 | 26 | 217 | 138 |
| 6311-400050 | 11V665 | L | 50 | H050 DE | 40 | 2.723 | 216 | 103 | 31 | 217 | 138 |
| 6311-400063 | 11V666 | L | 63 | H075 DE | 50 | 5.449 | 251 | 120 | 38 | 267 | 155 |
| 6311-400075 | 11V667 | L | 75 | H075 DE | 65 | 7.908 | 308 | 150 | 45 | 308 | 155 |
| 6311-400090 | 11V888 | L | 90 | H075 DE | 65 | 8.217 | 332 | 150 | 51 | 308 | 155 |
| 6311-500032 | 11V703 | T | 32 | H050 DE | 25 | 1.778 | 160 | 72 | 22 | 183 | 138 |
| 6311-500040 | 11V894 | T | 40 | H050 DE | 40 | 2.704 | 214 | 103 | 26 | 217 | 138 |
| 6311-500050 | 11V705 | T | 50 | H050 DE | 40 | 2.713 | 216 | 103 | 31 | 217 | 138 |
| 6311-500063 | 11V706 | T | 63 | H075 DE | 50 | 5.431 | 251 | 120 | 38 | 267 | 155 |
| 6311-500075 | 11V707 | T | 75 | H075 DE | 65 | 7.868 | 308 | 150 | 45 | 308 | 155 |
| 6311-500090 | 11V898 | T | 90 | H075 DE | 65 | 8.177 | 332 | 150 | 51 | 308 | 155 |



Threaded female outlet

| CODE | CODE | MODEL | r | MOTOR | DN | WT. (g.) | A | B | C | D | E |
|--------|--------|-------|--------|---------|----|----------|-----|-----|----|-----|-----|
| 11V373 | 11V673 | L | 1" | H050 DE | 25 | 1.806 | 162 | 72 | 23 | 183 | 138 |
| 11V375 | 11V675 | L | 1 1/2" | H050 DE | 40 | 2.801 | 210 | 103 | 33 | 217 | 138 |
| 11V376 | 11V676 | L | 2" | H075 DE | 50 | 5.518 | 261 | 120 | 29 | 267 | 156 |
| 11V377 | 11V677 | L | 2 1/2" | H075 DE | 65 | 8.013 | 322 | 150 | 33 | 308 | 156 |
| 11V413 | 11V713 | T | 1" | H050 DE | 25 | 1.802 | 162 | 72 | 23 | 183 | 138 |
| 11V415 | 11V715 | T | 1 1/2" | H050 DE | 40 | 2.791 | 210 | 103 | 33 | 217 | 138 |
| 11V416 | 11V716 | T | 2" | H075 DE | 50 | 5.500 | 261 | 120 | 29 | 267 | 156 |
| 11V417 | 11V717 | T | 2 1/2" | H075 DE | 65 | 7.973 | 322 | 150 | 33 | 308 | 156 |