

# ASCO™ High Pressure Gas Shutoff Valves

Direct Acting | 3/8" - 1" NPT

2/2  
SERIES  
K3A5

## Features

- 2-way normally closed operation
- Die-cast aluminum bodies
- For positive shutoff on pilot or main gas lines of commercial and industrial gas burners
- Valves provided with 1/8" NPT upstream and downstream pipe tap with plug for routine testing
- Broad ambient temperature range -40° F up to 160° F

## Fluid

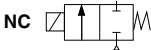
Fuel Gas

## Construction

| Valve Parts in Contact with Fluids |                      |
|------------------------------------|----------------------|
| Body                               | Aluminum             |
| Seals & Disc                       | NBR                  |
| Core Tube                          | 305 Stainless Steel  |
| Core & Plugnut                     | 430F Stainless Steel |
| Core Guide                         | Acetal               |
| Springs                            | 302F Stainless Steel |
| Shading Coil                       | Copper               |
| Pipe Plug                          | Zink-Plated Steel    |

## Electrical

| Standard Coil & Class of Insulation                                                                                                                                                                                     | Watt Rating & Power Consumption |            |           | Ambient Temp °F (°C)   | Spare Coil Family |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|-----------|------------------------|-------------------|
|                                                                                                                                                                                                                         | AC                              |            |           |                        |                   |
|                                                                                                                                                                                                                         | Watts                           | VA Holding | VA Inrush |                        |                   |
| H                                                                                                                                                                                                                       | 16.7                            | 31         | 90        | -40 to 140 (-40 to 60) | 529028            |
| H                                                                                                                                                                                                                       | 20                              | 40         | 112       | -40 to 160 (-40 to 71) | 529030            |
| <b>Standard Voltages:</b> 120 volts, AC 60 Hz<br><b>Optional Voltages:</b> 24, 240 volts AC, 60 Hz<br>K3A catalog number includes codification for voltage. However voltage must be specified when ordering spare coil. |                                 |            |           |                        |                   |



## Solenoid Enclosures

**Standard:** Type 1 General Purpose Junction Box Housing with two 7/8" knock-outs.

## Valve Response Time

**Opening Time:** Less than 1 second

**Closing Time:** Less than 1 second

## Close-off Pressure

50 psi (3.5 bar) maximum

## Approvals

UL listed to standard 429 "Electrically Operated Valves," Guide Y10Z, File MP932 Safety Valves.

FM Approved to Class 7400 "Liquid and Gas Safety Shutoff Valves"

CSA Certified to Automatic Gas Valves ANSI Z21.21, CSA 6.5 C/I (meets standard C22.2 No. 139 "Electrically Operated Valves"), File 112872

COMBUSTION

## Specifications English units (Metric)

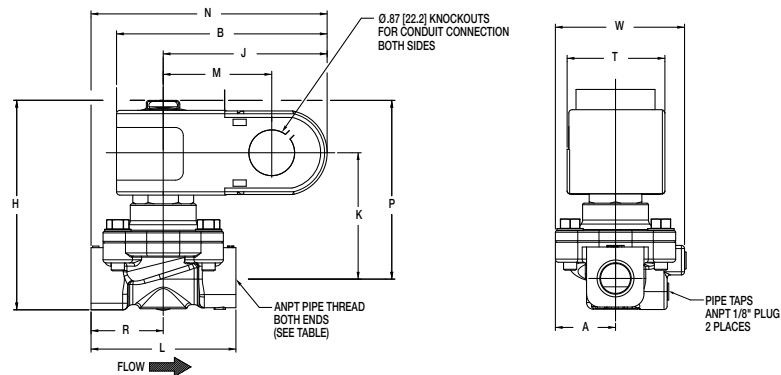
| Pipe Size<br>in                                                                                                         | Orifice Size<br>in (mm) | Flow Factor<br>Cv (Kv) | Gas Capacity ① | Operating Pressure Differential psi (bar) |           | Max. Fluid Temp.<br>°F (°C) | Catalog Number |         |         | Const. Ref. | Agency |    |     | Wattage | Approx. Shipping Weight<br>lbs (kgs) |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|----------------|-------------------------------------------|-----------|-----------------------------|----------------|---------|---------|-------------|--------|----|-----|---------|--------------------------------------|
|                                                                                                                         |                         |                        | Btu/hr.        | Min.                                      | Max.      |                             | 24/60          | 120/60  | 240/60  |             | UL     | FM | CSA |         |                                      |
| COMBUSTION (Fuel Gas) - NORMALLY CLOSED                                                                                 |                         |                        |                |                                           |           |                             |                |         |         |             |        |    |     |         |                                      |
| 3/8"                                                                                                                    | 3/4" (19)               | 4.0 (3.5)              | 226, 500       | 0                                         | 6 (0.4)   | 140 (60)                    | K3A531V        | K3A532V | K3A534V | 1           | ○      | ○  | ○   | 16.7    | 1.5 (.7)                             |
| 1/2"                                                                                                                    | 3/4" (19)               | 5.0 (4.3)              | 272, 300       | 0                                         | 6 (0.4)   | 140 (60)                    | K3A541V        | K3A542V | K3A544V | 1           | ○      | ○  | ○   | 16.7    | 1.5 (.7)                             |
| 3/4"                                                                                                                    | 3/4" (19)               | 9.5 (8.2)              | 512, 000       | 0                                         | 3 (0.2)   | 140 (60)                    | K3A551V        | K3A552V | K3A554V | 2           | ○      | ○  | ○   | 16.7    | 1.7 (.8)                             |
| 1"                                                                                                                      | 1 3/8" (35)             | 14.6 (12.6)            | 787, 200       | 0                                         | 1.5 (0.1) | 140 (60)                    | K3A561V        | K3A562V | K3A564V | 3           | ○      | ○  | ○   | 20.0    | 2.9 (1.3)                            |
| ○ = Safety Shutoff Valve. ① 1" W.C. Drop @ 2" W.C. Inlet Pressure, 1,000 Btu/cu.ft. or more, 0.64 Specific Gravity Gas. |                         |                        |                |                                           |           |                             |                |         |         |             |        |    |     |         |                                      |

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## Dimensions inches (mm)

| Const. Ref. |    | A    | B    | H    | J    | K    | L    | M    | N    | P    | R    | T    | W    | Mounting Position |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 1           | in | 1.14 | 4.00 | 4.00 | 3.11 | 2.40 | 2.75 | 2.06 | 4.48 | 3.39 | 1.37 | 1.86 | 2.45 | Any               |
|             | mm | 29   | 101  | 101  | 79   | 61   | 70   | 52   | 114  | 86   | 35   | 47   | 62   |                   |
| 2           | in | 1.14 | 4.00 | 4.26 | 3.11 | 2.59 | 3.31 | 2.06 | 4.77 | 3.58 | 1.66 | 1.86 | 2.33 | Any               |
|             | mm | 29   | 101  | 108  | 79   | 66   | 84   | 52   | 121  | 91   | 42   | 47   | 59   |                   |
| 3           | in | 1.9  | 4.6  | 6.1  | 3.5  | 3.8  | 4    | 2.5  | 5.8  | 5.1  | 2.3  | 2.2  | 3.7  | Above Horizontal  |
|             | mm | 48   | 118  | 155  | 90   | 97   | 102  | 63   | 148  | 131  | 58   | 56   | 95   |                   |

### Const. Ref. 1, 2



### Const. Ref. 3

