

20BAL SERIES

2/2 NORMALLY CLOSED

The 20BAL valves are actuated by a direct solenoid. Valves are designed for high-flow, low-pressure applications. Valves are suitable for use with air or gas.

SPECIFICATIONS

Pressure

Operating pressure range:
0 to 10 kPa (0 to 1.5 psi)

Minimum pressure differential:
0 kPa (0 psi)

Fluid Temperature Range

Nitrile seals:
-40°C to +50°C (-40°F to +122°F)

Ambient Temperatures

0°C to +50°C (32°F to +120°F)

Approved Gases

CSA/UL: Fuel Gas, Natural Gas, Propane
AGA: Town Gas, Natural Gas, LPG, TLP, SN

Approvals and Standards

ISO 9001 Quality Management System, Certificate: QEC0366
UL Files: YIOZ.MH9011 YIOZ2.MH9011
CSA File: 26709
AGA Certificate: 5080 AS4629 Class 1
C-Tick Mark, Supplier Code: N282
CE Compliance to Directives 2006/95/EC and 2004/108/EC
RoHS Compliance to Directive 2002/95/EC

| | | | | | | | | | | | | | | | | |
|------------------------------|-----|---|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number Code: | 2 | 0 | B | A | L | - | E | D | A | N | A | - | 6 | 2 | 8 | 1 |
| Valve Size | 20 | | 3/4" pipe thread | | | | | | | | | | | | | |
| Valve Series | BAL | | High-flow, low-pressure Gas Valve | | | | | | | | | | | | | |
| Internal Construction | C | | For use with DC coils only | | | | | | | | | | | | | |
| | E | | For use with AC coils only | | | | | | | | | | | | | |
| Special Features | 3 | | Class 3 Australian Gas Approval | | | | | | | | | | | | | |
| | F | | CSA/UL Recognized Component | | | | | | | | | | | | | |
| | D | | CSA/UL Listed – Safety Valve | | | | | | | | | | | | | |
| Body Material | A | | Aluminium | | | | | | | | | | | | | |
| | N | | Additional electroless nickel plating | | | | | | | | | | | | | |
| Seal Material | N | | Nitrile | | | | | | | | | | | | | |
| Port Thread | T | | RC Thread (BSPT) | | | | | | | | | | | | | |
| | A | | NPT Thread | | | | | | | | | | | | | |

Coil Options
See page 32.



BAL BD



BAL BR

OPERATING PRESSURE RANGE

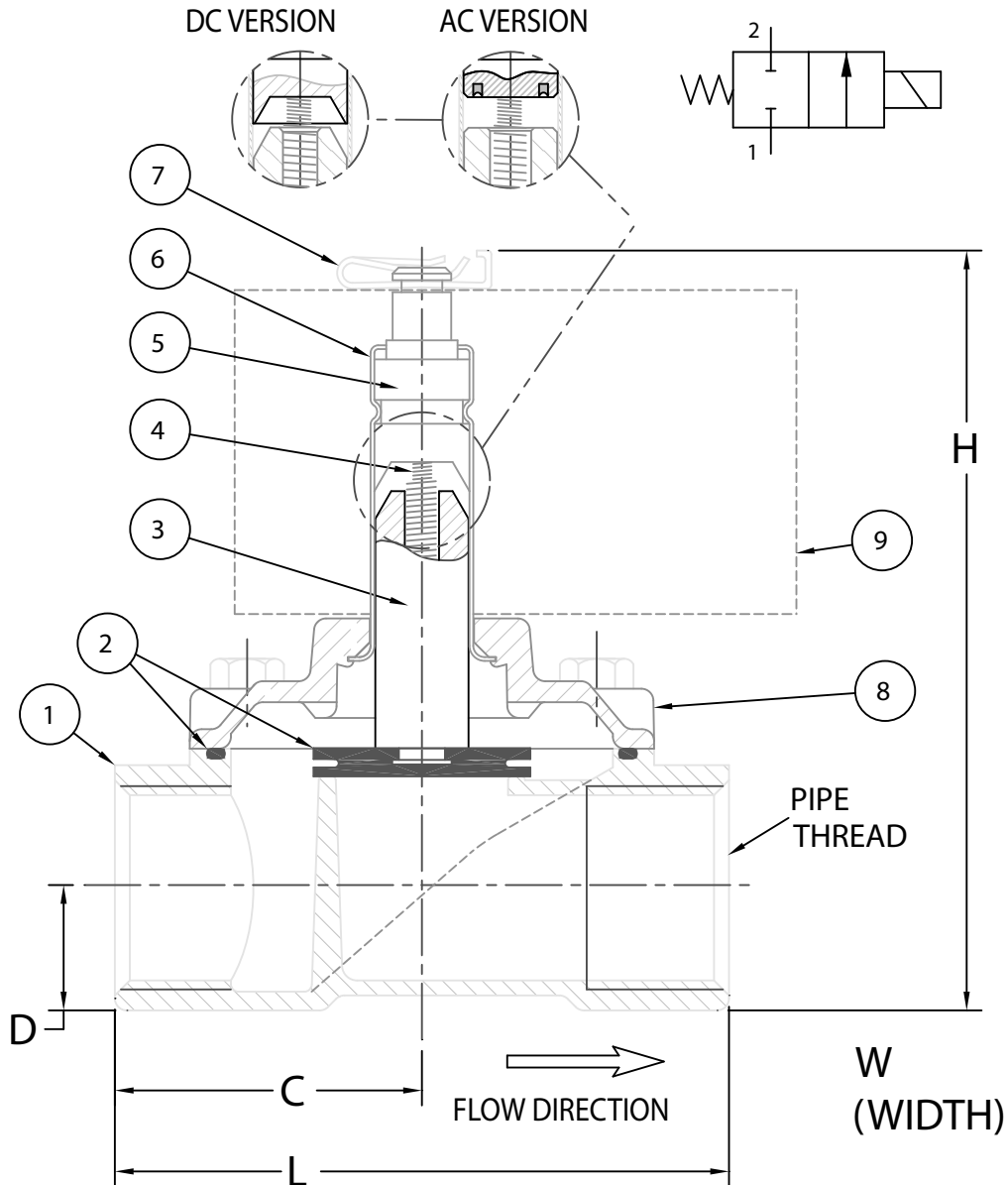
| VALVE MODEL | PRESSURE | |
|-------------|----------|----------|
| | KPA | PSI |
| 20BAL | 0 to 10 | 0 to 1.5 |

CONNECTION AND FLOW

| VALVE MODEL | PIPE SIZE | | ORIFICE SIZE | | FLOW FACTOR | |
|-------------|-----------|------|--------------|------|-------------|------|
| | MM | INCH | MM | INCH | CV | KV |
| 20BAL | 20 | 3/4 | 19.0 | 0.75 | 7.7 | 6.62 |

DIMENSIONS

| VALVE MODEL | L | | W | | H | | C | | D | |
|-------------|------|------|------|------|------|------|------|------|------|------|
| | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH |
| 20BAL | 82.0 | 3.23 | 62.0 | 2.44 | 99.0 | 3.90 | 41.0 | 1.61 | 16.7 | 0.66 |



CONSTRUCTION

| ITEM | DESCRIPTION | MATERIAL |
|------|----------------|------------------------|
| 1 | Body | Aluminium CA313 |
| 2 | Seals | Nitrile Rubber |
| 3 | Plunger | 430FR Stainless Steel |
| 4 | Plunger Spring | 304 Stainless Steel |
| 5 | Iron Top | 430FR Stainless Steel |
| 6 | Ferrule Tube | 305-4F Stainless Steel |
| 7 | Coil Clip | Plated Steel |
| 8 | Cover | Aluminium CA313 |
| 9 | Coils | Refer to page 32. |

SPARE PARTS KITS

Kits consist of plunger, spring and seals

| MODEL | | KIT (NITRILE SEALS) |
|-------|----|---------------------|
| 20BAL | AC | KM3109 |
| | DC | KM2512 |