

بویین ویکرز شفت 24

MODEL : PN 02-101727



alisanat.com



copyright © photo by alisanat.com

alisanat.com



copyright © photo by alisanat.com

alisanat.com



copyright © photo by alisanat.com

alisanat.com



copyright © photo by alisanat.com

alisanat.com



copyright © photo by alisanat.com

alisanat.com



copyright © photo by alisanat.com

Operating Data

Performance data is typical with fluid at 36cSt (168 SUS) and 50°C (122°F).

| FEATURE | STANDARD PERFORMANCE VALVE DG4V-3S | | HIGH PERFORMANCE VALVE DG4V-3 | |
|--|--|---------------------|----------------------------------|---------------------|
| | | | | |
| Pressure Limits | | | | |
| P, A and B ports | 350 bar (5075 psi) ■ | | 350 bar (5075 psi) | |
| T port: | | | | |
| Spool indicator switch models | | | | |
| Types S3, S4, S5 | N/A | | 10 bar (145 psi) | |
| Type S6 | N/A | | 210 bar (3045 psi) | |
| All other models | 100 bar (1450 psi) | | 210 bar (3045 psi) | |
| Flow rating | See performance data | | See performance data | |
| Relative duty factor | Continuous; ED = 100% | | Continuous; ED = 100% | |
| Type of protection: | | | | |
| ISO 4400 coils with plug fitted correctly | IEC 144 class IP65 | | IEC 144 class IP65 | |
| SP1 – Single spade 6,3 mm | IEC 760 | | IEC 760 | |
| SP2 – Dual spade 6,3 mm | IEC 760 | | IEC 760 | |
| Coil winding | Class H | | Class H | |
| Lead wires (coils type F***) | Class H | | Class H | |
| Coil encapsulation | Class F | | Class F | |
| Permissible voltage fluctuation: | | | | |
| Maximum | Refer to temperature limits. | | Refer to temperature limits. | |
| Minimum | 90% rated | | 90% rated | |
| Typical response times at 100% rated volts measured from application/removal of voltage to full spool displacement of “2C” spool at: | | | | |
| Flow rate P-A, B-T | 20 l/min (5.3 USgpm) | | 40 l/min (10.6 USgpm) | |
| Pressure | 175 bar (2537 psi) | | 175 bar (2537 psi) | |
| AC (~) energizing | 18 ms | | 15 ms | |
| AC (~) de-energizing | 32 ms | | 23 ms | |
| DC (=) energizing | 60 ms | | 45 ms | |
| DC (=) de-energizing | 40 ms | | 28 ms | |
| Power consumption, AC solenoids (for coils listed in model code). | Initial ▲ VA (RMS) | Holding VA (RMS) | Initial ▲ VA (RMS) | Holding VA (RMS) |
| Full power coils: | | | | |
| Single frequency coils AC 50 Hz | 225 | 39 | 265 | 54 |
| Dual frequency coils at 50 Hz | 265 | 49 | 280 | 61 |
| Dual frequency coils at 60 HZ | 260 | 48 | 300 | 58 |
| Low power coils, “BL” and “DL”: (Not available with “N” – No-spring detented models) | Low power coils not usable with DG4V-3S valves. | | 170 | 37 |
| Dual frequency coils at 50 Hz | | | 190 | 37 |
| Dual frequency coils at 60 Hz | | | | |
| Power consumption, DC solenoids at rated voltage and 20 C (68 F). | | | | |
| Full power coils: | | | | |
| 12V, model type “G” | 30W | – | 30W | – |
| 24V, model type “H” | 30W | – | 30W | – |
| Low power coils: | | | | |
| 12V, model type “GL” | Low power coils not usable with DG4V-3S valves. | | 18W | – |
| 24V, model type “HL” | | | 18W | – |

■ For applications where valves are to remain pressurized (either energized or de-energized) at pressures over 210 bar (3045 psi) without frequent switching, it is recommended to use the high performance model, DG4V-3.

▲ 1st half cycle; armature fully retracted.

Appendix

Spare parts data

Refer to service drawing I-3886-S for spare parts and kit information.

Seal kits

For valves with spool indicator switch, model types DG4V-3-*A-M-S*-60: kit no. 859049

For other models seal kits vary according to type of coil fitted:

For "U" type coil: kit no. 858995

For "F" type coil: kit no. 858996

Note: Each seal kit covers a variety of models and may have redundant seals for a particular model.

Solenoid Coils

AC coils

| Code | Voltage/ frequency | Standard performance | | High performance | |
|-------------------|-----------------------|----------------------|-----------|------------------|----------|
| | | "U" type | "F" type | "U" type | "F" type |
| Full power coils: | | | | | |
| A | 110V/50 Hz | 02-101725 | 02-101730 | 507825 | 508166 |
| B | 110/120V/50/60 Hz | 02-101726 | 02-101731 | 507833 | 508169 |
| C | 220V/50 Hz | 02-101727 | 02-101732 | 507826 | 508167 |
| D | 220/240V/50/60 Hz | 02-101728 | 02-101733 | 507834 | 508170 |
| Low power coils: | | | | | |
| BL | 110/120V/50/60 Hz | N/A | N/A | 598562 | 698563 |
| DL | 220/240V/50/60 Hz | N/A | N/A | 866455 | 866457 |

DC coils (Standard and high performance)

| Code | Voltage | "U" type | "F" type | "SP1" type | "SP2" type | "KU" type |
|-------------------|---------|----------|----------|------------|------------|-----------|
| Full power coils: | | | | | | |
| G | 12V | 507847 | 508172 | 02-111246 | 02-111166 | 02-140394 |
| H | 24V | 507848 | 508173 | 02-111248 | 02-111168 | 02-140395 |
| Low power coils: | | | | | | |
| GL | 12V | 507855 | 508175 | N/A | N/A | N/A |
| HL | 24V | 507852 | 508174 | N/A | N/A | N/A |

Mass, approx. kg (lb)

| | | |
|--|--------------|--------------|
| DG4V-3 and DG4V-3S (DC) | "U" coils | "F" coils |
| Single sol. valve | 1,6 (3.5) | 1,8 (4.0) |
| Double sol. valve | 2,2 (4.8) | 2,3 (5.0) |
| DG4V-3 and DG4V-3S (AC) | "U" coils | "F" coils |
| Single sol. valve | 1,5 (3.3) | 1,6 (3.5) |
| Double sol. valve | 1,8 (4.0) | 2,0 (4.4) |
| Single sol. valve w/ position switch | 2,0 (4.4) | 2,0 (4.4) |

Mounting Attitude

No restrictions except for no-spring, detented models DG4V-3-*N and DG4V-3S-*N which should be mounted with the spool axis horizontal. These model types may be affected by severe vibration or shock, especially if a solenoid is not held energized.



علی صنعت

طراحی و تنظیم این کاتالوگ صد درصد توسط شرکت علی صنعت انجام شده
و تمامی حقوق برای شرکت علی صنعت محفوظ میباشد

The design and layout of this catalog have been 100% done by
Ali Sanat Company and all rights are reserved for
Ali Sanat Company

021-33112229

09123118117

www.alisanat.com