2/2- 3/2-Way; NPT 1/4, Universal Function



Advantages / Benefits

- Universal function
- Separating diaphragm isolates solenoid system from operating fluid
- Long service life, even in non-lube conditions
- Insensitive to contaminated fluids
- Specific clean and testing available
- Lockable manual override standard
- ➤ With electrical feedback signaller (optional)
- On request: explosion proof-, impulse-, vacuum- or low power versions

Design/Function

The direct-acting 2- way and 3-way solenoid valve has a flipper as the switching method.

This unique valve hermetically isolates the actuator from the fluid. Making it less sensitive to contaminated fluids than a plunger-type system and provides a long service life, even in unlubricated applications.

The valve is available with several circuit functions. When the valve is energized the armature is pulled against a spring.

The solenoid epoxy encapsulation efficiently dissipates the heat generated by the fluid.

Burkert Contromatic USA 2602 McGaw Avenue Irvine, CA 92614

Tel. 949.223.3100 Fax 949.223.3198 www.burkert-usa.com

- Direct-acting
- Body materials: stainless steel
- Fast-acting

Burkert Contromatic Inc.

760 Pacific Road, Unit 3

Oakville, Ontario, Canada

Tel. 905.847.5566 Fax 905.847.9006

L6L 6M5

 Insensitive to abrasive, slightly contaminated fluids

Applications

Neutral gases and liquids

Aggressive fluids

Demineralized water

Vacuum

Unlubricated compressed air

Water and gas analysis

Dryer systems

Pharmaceutical industry

Food processing

Steam traps

Pilot valve for process valves



Technical Data

Circuit Function

A- 2/2-way valve, normally closed



T- 3/2-way valve, direct acting, universal function, any flow direction



Operating Data (Valve)

Pressure range max. 232 PSI

(see specifications)

Port connection Threaded port NPT 1/4"

Orifice

5/64" to 5/32" Sub-base (on request) 316L Stainless steel FPM (Viton), EPDM

Body material Seal material

Fluids EPDM: Alkalis, acids up to a

medium concentration, alkaline washing and bleaching lyes.

FPM: Oxydizing acids, salt solutions, exhaust gas

Fluid temperature -22°F to 194°F (EPDM)

-10°F to 176°F (FPM)

Ambient temperature Max. viscosity

max. 131°F approx. 37 mm²/s

Response Times

O	perating	Data	(Actuator)
_	peraming	Data	(Actuator)

Operating voltages AC: 110, 230 V/50 Hz,

DC: 24 V

Voltage tolerance ±10%

Power consumption AC 30 VA (inrush) 15 VA /

8 W (hold) DC 8 W

5 W (on request)

Duty cycle 100% continuous rated

Cycling rate approx 1000 c.p.m.

Protection class NEMA 4 (IP65) with cable plug

Type 2508

Electrical connection cable plug Type 2508

(DIN 43650, form A)

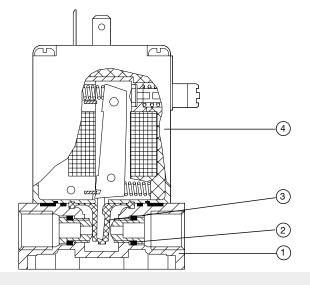
for 7 mm ø cable (supplied

as standard)

Installation as required

Circuit Opening [ms] Closing [ms] Function AC DC A and T 8 - 15 10 - 20 8 - 15 10 - 20

Materials



1 Valve body: 316L Stainless Steel 2 O-Rings: FPM (Viton), EPDM 3 Isolating diaphragm: FPM (Viton), EPDM

4 Coil: Epoxy

Ordering Chart for Standard Versions (Other Versions on Request)

Circuit Functions	Orifice	C _v ¹⁾	Port Connection [NPT]	Pressure Range [PSI]	Body Material	Seal Material	Voltage ²⁾	Electrical Classififcations ³⁾	Item Number
А	1/8"	.27	1/4"	0-145	Stainless Steel	EPDM	24 DC	_	454 768 J
	1/8"	.27	1/4"	0-145	Stainless Steel	EPDM	120/60	_	US 01957
	1/8"	.27	1/4"	0-145	Stainless Steel	EPDM	120/60	UL/FM	US 03207
	1/8"	.27	1/4"	0-145	Stainless Steel	FPM	120/60	_	454 676 E
	1/8"	.27	1/4"	0-145	Brass	FPM	120/60	UL/FM	US 04159
	5/32"	.33	1/4"	0-70	Stainless Steel	FPM	24 DC	_	US 03936
	5/64"	.13	1/4"	0-170	Brass	FPM	120/60	UL/FM	453 226 S
	5/64"	.13	1/4"	0-170	Brass	FPM	120/60	Haz-Ex	455 111 R
	1/8"	.27	1/4"	0-145	Brass	FPM	24 DC	UL/FM	453 020 T
	1/8"	.27	1/4"	0-145	Brass	FPM	24 DC	Haz-Ex	453 302 H
	1/8"	.27	1/4"	0-145	Brass	FPM	24/60	UL/FM	453 019 W
	1/8"	.27	1/4"	0-145	Brass	FPM	24/60	Haz-Ex	US 02961
С	1/8"	.27	1/4"	0-145	Brass	FPM	120/60	UL/FM	453 018V
	1/8"	.27	1/4"	0-145	Brass	FPM	120/60	Haz-Ex	455 303 A
	1/8"	.27	1/4"	0-145	Stainless Steel	FPM	120/60	UL/FM	453 232 Y
	1/8"	.27	1/4"	0-145	Stainless Steel	FPM	120/60	Haz-Ex	455 304 B
	5/32"	.33	1/4"	0-70	Brass	FPM	24 DC	UL/FM	453 235 T
	5/32"	.33	1/4"	0-70	Brass	FPM	24 DC	Haz-Ex	455 305 C
	5/32"	.33	1/4"	0-70	Brass	FPM	120/60	UL/FM	452 863 Y
	5/32"	.33	1/4"	0-70	Brass	FPM	120/60	Haz-Ex	US 03705
	5/64"	.13	1/4"	0-170	Brass	FPM	24 DC	UL/FM	454 762 C
Т	5/64"	.13	1/4"	0-170	Brass	FPM	120/60	UL/FM	454 490 Z
	5/64"	.13	1/4"	0-170	Brass	FPM	120/56	Haz-Ex	US 03253
	5/64"	.13	1/4"	0-170	Stainless Steel	FPM	24 DC	UL/FM	US 03365
	5/64"	.13	1/4"	0-170	Stainless Steel	FPM	120/60	UL/FM	454 126 P
	5/64"	.13	1/4"	0-170	Stainless Steel	FPM	120/56	Haz-Ex	US 02822
	1/8"	.27	1/4"	0-85	Brass	FPM	24 DC	UL/FM	453 026 M
	1/8"	.27	1/4"	0-85	Brass	FPM	120/60	UL/FM	453 024 K
	1/8"	.27	1/4"	0-85	Stainless Steel	FPM	24 DC	UL/FM	US 03061
	1/8"	.27	1/4"	0-85	Stainless Steel	FPM	120/60	UL/FM	453 558 F
	5/32"	.33	1/4"	0-58	Brass	FPM	24 DC	UL/FM	455 055 U
	5/32"	.33	1/4"	0-58	Brass	FPM	120/60	UL/FM	US 03075
	5/32"	.33	1/4"	0-58	Brass	FPM	120/56	Haz-Ex	455 114 L
	5/32"	.33	1/4"	0-58	Stainless Steel	FPM	_	_	_
	5/32"	.33	1/4"	0-58	Stainless Steel	FPM	120/60	UL/FM	453 634 T
	5/32"	.33	1/4"	0-58	Stainless Steel	FPM	120/56	Haz-Ex	455 115 M

Notes:

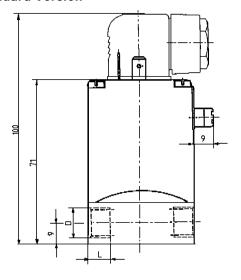
- 1) C_v reduced 20% with DC current operation.
- 2) 120/56 suitable for 50Hz or 60 Hz power.
- 3) U.L. is a U.L. listed valve per U.L. Standard Groups a, B, C, and D.
 - FM is FM approved for Haz Location, CL I Div 2, Groups A, B, C, and D.
 - Valve comes with electrical plug if no electrical class is given.
- 4) Vacuum versions available on request.

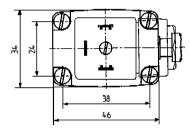
Options

- Diagnosis: Electrical feedback signaller
- Impulse coil
- Specific clean and testing
- Vacuum version
- Brass valve body
- Sub-base version Type 331
- Explosion-proof version

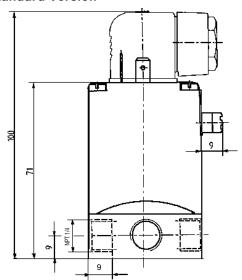
Dimensions [mm] 2/2-Way Dimensions [mm] 3/2-Way

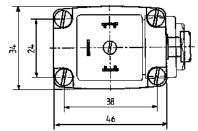
Standard Version



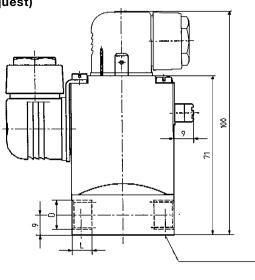


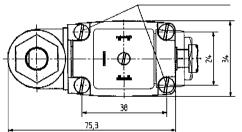
Standard Version





Valve with Electrical Feedback Signaller Type 1060 (on request)





Valve with Electrical Feedback Signaller Type 1060

