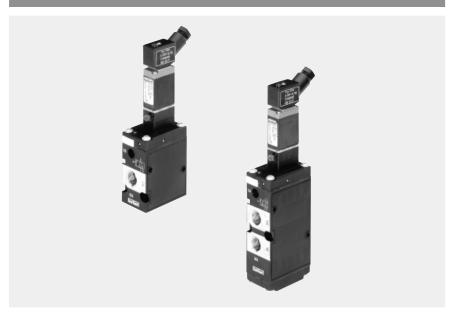
Intrinsically Safe, DIV 1, 2, T6, Class I/Group A

3/2- or 5/2-Way, 30 - 116 PSI



The Type 6516/6517 intrinsically safe valves are used for process actuation in hazardous areas. Thanks to the intrinsically safe design and the possibility of block mounting, the valves can be used in a wide variety of demanding applications.

Process Specification

Nominal voltage 24 V/DC

> (for further information also consult our data sheet "Recommended Barriers")

Duty cycle 100% continuously rated

Protection class IP 65 with cable plug

Materials

РΑ Body

Threaded port material Brass or stainless steel PB (NBR and PUR) Seal

Fluids Lubricated or unlubricated compressed air, instrument air

and nitrogen

Ambient temperatures

14 up to 122°F (T6) Block assembly 14 up to 131°F (T5)

Single mounting 14 up to 131°F (T6)

Mounting position Any, preferably solenoid

system upright

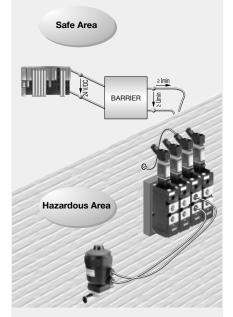
Advantages/Benefits

- ► PTB EEx ia IIC T6 approved
- ► FM IS / I, II, III / ABCDEFG approved
- High flow rates
- Long service life

Applications

Target markets:

- Chemical industry
- Pharmaceutical processing equipment
- Industrial waste water treatment
- Oil and gas industry





Burkert Contromatic USA

2602 McGaw Avenue Irvine, CA 92614 Tel. 949.223.3100 Fax 949.223.3198 www.burkert-usa.com

Burkert Contromatic Inc.

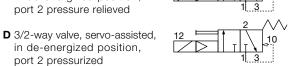
760 Pacific Road, Unit 3 Oakville, Ontario, Canada L6L 6M5 Tel. 905.847.5566 Fax 905.847.9006 www.burkert.ca

Technical Data

Circuit Function

C 3/2-way valve, servo-assisted, in de-energized position, port 2 pressure relieved

in de-energized position, port 2 pressurized



H 5/2-way valve, servo-assisted, in de-energized position, pressure port 1 connected to port 2, port 4 exhausted



Туре	Circuit function	Orifice	QNn-Value	Pressure	Response times		Weight
			(air)	range	opening	closing	
		[inch]	[l/min]	[PSI]	[ms]	[ms]	[lb.]
6516	C (3/2-way)	5/16″	1300	30 – 116	35	120	0.44
6516	D (3/2-way)	5/16″	1300	30 – 116	35	120	0.44
6517	H (5/2-way)	5/16″	1300	30 – 116	60	200	0.55

Flow rate: QNn-value air [l/min]

Measured at 68°F, 87 PSI pressure at valve inlet and 14.5 PSI pressure difference

Pressure ranges [PSI] Gauge measurements

Response times [ms]

Measured at valve outlet at 87 PSI and 68°F Pressure rise from 0 to 90% Opening Pressure drop from 100 to 10%

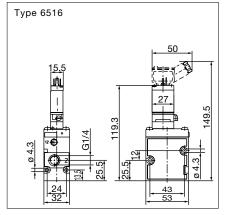
Specifications - Ordering Chart (Other Versions on Request)

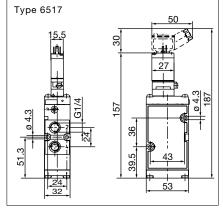
All valves are supplied with a manual override and G 1/4 threads

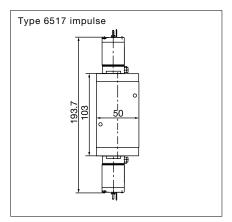
Туре	Circuit function	Orifice	QNn-Value	Supply port	Pressure	Item-No.
			(air)	material	range	
		[inch]	[l/min]		[PSI]	
6516	C (3/2-way)	5/16″	1300	Brass, nickel-plated	30 – 116	140 500 L
6516	D (3/2-way)	5/16"	1300	Brass, nickel-plated	30 – 116	140 502 A
6517	H (5/2-way)	5/16"	1300	Brass, nickel-plated	30 – 116	140 315 B
6517	H impulse	5/16″	1300	Brass, nickel-plated	30 – 116	140 505 B

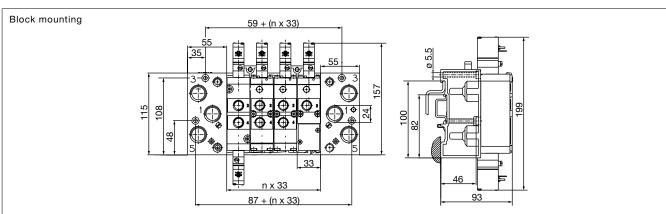
Dimensions [mm]

DTS 1000082448 EN Version: - Status: RL (released | freigegeben | validé) printed: 13.08.2008









In case of special requirements please consult for advice.

We reserve the right to make technical changes without notice.

US_6516-6517_Intrinsically_Safe_07/02