



ISO Velocity Control Valve

- Direct Drive High Performance Butterfly Valves
- 90—250 mSec actuation for increased throughput and higher performance control
- High performance Analog I/O
- RTOS for guaranteed responsiveness
- NW 16 to ISO 160 Sizes Available
- ISO 200 & ISO 250 Available as geared-drive models
- Analog, RS232, RS485, USB, DeviceNet & Ethernet Interfaces.
- Industry Standard Connections/Connectors for easy retrofit and replacement.
- New Flexible System Interface flex-SYS™
 - Designed for Easy PLC Integration
 - MODBUS RTU RS232/485
 - MODBUS/TCP
 - Analog Velocity control

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Downstream Pressure Control

THROTTLING BUTTERFLY VALVES

Key Specifications

CONSTRUCTION

Wetted Materials:

316 Stainless Steel.

Seals:

Viton Standard, Kalrez, Chemraz, Perlast options.

PERFORMANCE

Speed:

90-250 msec depending on size.

Motor Torque:

260 in-oz to 505 in-oz direct drive

Pressure Control:

Accuracy: 0.25% of reading

Repeatability: 0.12% of reading

Temperature:

0-60C @ 0-95% humidity, non-condensing

Optional Valve Temp to 150C.

Differential Pressure:

1 atm. 15 psig max

Leak Rate:

1 X 10⁻⁸ scc/sec He

RELIABILITY

Cycle Life:

Million cycles

MTBF:

>10,000 hours

Approvals:

CE electromagnetic compatibility

CE standard for process equipment

ELECTRICAL

Rated Input voltage:

24VDC +/-10%

Rated Input protection:

36VDC Max, reverse input protection with auto-reset PTC

fuse

AC: 85-240VAC

Auto Thermal Shutdown

Power:

24VDC @ 3A peak, 1.5A nominal

Output Power:

+/-15VDC @ 600mA

COMMUNICATIONS

RS232 Standard

Optional:

USB

Ethernet

RS485

ANALOG

Signal Inputs:

0-5VDC, 0-10VDC software selectable for pressure/position

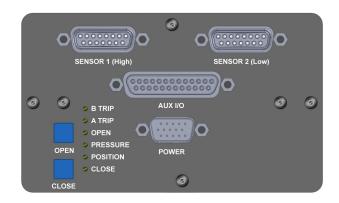
Outputs:

0-5VDC, 0-10VDC software selectable for pressure/position

SET POINTS

5 set points each with dedicated PID settings





TBV-IA Series

- Industry Standard Connectors
- High Performance Analog Functions



TBV-IB Series

- Industry Standard Connectors
- High Performance Digital Control



98-00 Series Controller

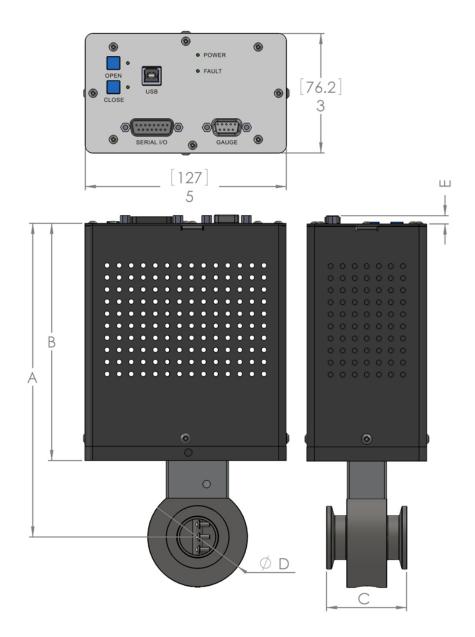
- Industry Standard Connectors
- High Performance Digital Control
- USB Standard



98-01/02 Series

- High Performance Digital Control
- USB Standard
- Universal Power Supply

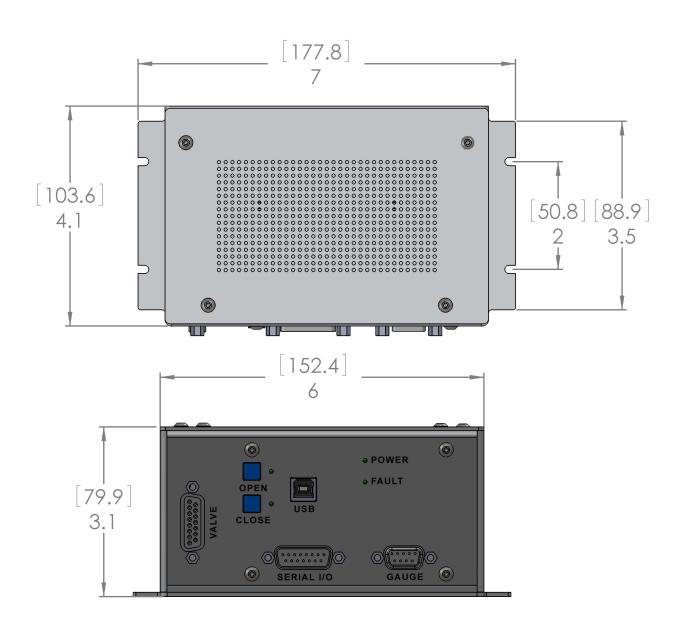




DIRECT DRIVE THROTTLING BUTTERFLY VALVES							
Model	Flange Size	Туре	Α	В	С	D	
TBV-IB-NW-25	1.0	NW-25	8.08	5.9	2.25	2.75	
TBV-IB-NW-40	1.5	NW-40	8.08	5.9	2.25	2.75	
TBV-IB-NW-50	2.0	NW-50	8.39	5.9	2.00	3.36	
TBV-IB-ISO-63	2.5	ISO-63	8.84	5.9	1.00	5.12	
TBV-IB-ISO-80	3.0	ISO-80	9.16	5.9	1.00	5.71	
TBV-IB-ISO-100	4.0	ISO-100	9.59	5.9	1.00	6.50	



DC Powered Remote Pressure Controller with Digital Interface

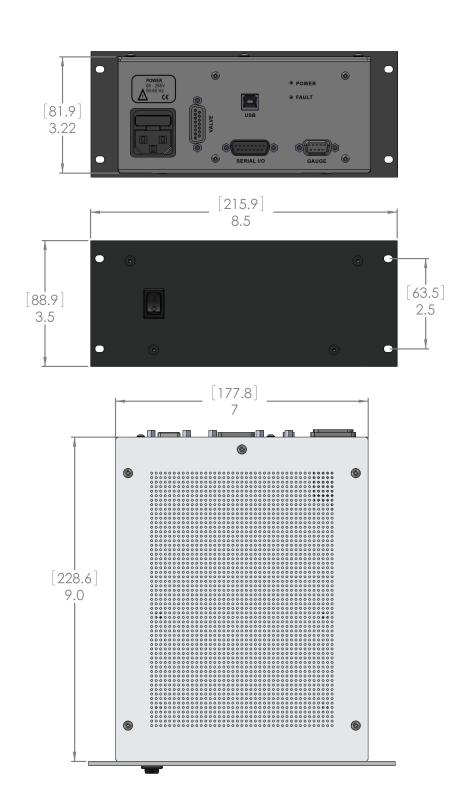




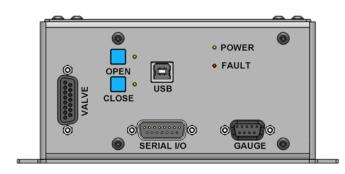
Downstream Pressure Control

THROTTLING BUTTERFLY VALVES

AC Powered Remote Pressure Controller with Digital Interface







Remote Controllers & Cables

Controllers for Throttling Valve Products

Part Number	Description	Compatibility		
98-00-9913	Pressure Controller, Advanced, 24VDC	TBV-RE/TBVi-RE Valves		
98-01-9913	Pressure Controller, Advanced, 90-260VAC	TBV-RE/TBVi-RE Valves		
98-02-9913	Touch Screen Pressure Controller, Advanced, 90-260VAC	TBV-RE/TBVi-RE Valves		

Cables for Throttling Valve Products

Part Number	Description	Remarks/Use		
70-01-0008	Cable, Motor Drive, 8', Standard Butterfly Valve	Standard motor drive cable for use with stand-alone controllers, i.e. 98-00-9913 and 98-01-9913.		
70-10-0008	Cable, Gauge, 8', Standard Analog, Single	Capacitive Diaphragm Gauge interface cable for use with a majority of analog gauges		
71-08-0915	Cable, RS232, 8'	Communications only cable for use with the AC powered controllers, i.e. 98-01-9913		
71-08-5011	Cable, Gauge, 8', 24VDC	Capacitive Diaphragm Gauge interface cable for use with gauges that require 24VDC single supply, i.e. Inficon SKY 025D		
71-08-5012	Cable, Integrated Power and RS232, 8'	Communications and power cable for use with the DC powered controllers, i.e. 98-00-9913		
72-08-0915	Cable, Motor Drive, 8', Gate Valve	Gate Valve motor drive cable for use with standalone controllers, i.e. 98-00-9913 and 98-01-9913.		



Ordering Guide:

TBV	RE RE		NW		50		V	
Series	Driv	ve Туре	Flange Type		Flange Size		Seal Material	
							_	
TBV Non-Se	eal RE	Remote	KF	NW	1.00"	25	Viton	V
TBVi Sealing	Sealing IA	Integrated -	ISO	ISO	1.50"	40	Kalrez	Kxx*
		Analog	CF	ConFlat	2.00"	50	Chemraz	Cxx*
	IB	Integrated –			2.50"	63	Perlast	Pxx*
	IC	RS232			3.00" 80		*Specify Material	
		Integrated – RS485			4.00"	100		
	ID	Integrated –			6.00"	160		
	IE	DeviceNet Integrated –			8.00"	200		
	-	Ethernet			10.00"	250		
	IF	Integrated – EtherCAT		'				