

Combined Balancing and Control Valves

TA Series 7FP



1 ¼ – 2"/DN32 – DN50



4"/DN100

1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ¼ – 2"/DN32 – DN50
- 4"/DN100

Application

- Heating and cooling systems
 - Water or neutral fluids; Water-glycol mixtures

Function

- Control [Equal Percentage Modified (EQM)]
- Differential Pressure Control
- Pre-Setting (Max Flow)
- Measuring (ΔH , T, q)
- Shut-Off (For isolation during system maintenance)
- Flushing

Pressure Rating

- 1 ¼ – 2"/DN32 – DN50: 232 psi/1600 kPa
- 4"/DN100: 362 psi/2496 kPa

Maximum Differential Pressure

- 116 psi/800 kPa

NOTE

- Valid for position 10, fully open. Other positions will require lower differential pressures. Check with IMI TA's HySelect software.

Minimum Differential Pressure

- 1 ¼ – 2"/DN32 – DN50: 2 psi/15 kPa/0.15 bar
- 4"/DN100: 4 psi/30 kPa/0.30 bar

NOTE

- Valid for position 10, fully open. Other positions will require lower differential pressures. Check with the HySelect software.

Maximum Recommended Pressure Drop to Avoid Excessive Noise

- 29 psi/200 kPa/2 bar

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

1.0 PRODUCT DESCRIPTION (Continued)

Operating Temperature Range

- -4°F to +250°F/-20°C to +120°C

Recommended setting range (q_{max})

- 1 ¼"/DN32: 3.87 – 18.54
- 1 ½"/DN40: 4.45 – 27.3
- 2"/DN50: 11.93 – 48.9
- 4"/DN100: 122 – 299

NOTE

- q_{max} = gpm at each setting and fully open valve plug.

Lift

- 0.79"/20 mm

Leakage Rate

- Tight sealing to maximum differential pressure

Characteristics

- EQM

2.0 CERTIFICATION/LISTINGS

Not applicable – Contact Victaulic with any questions.

3.0 SPECIFICATIONS – MATERIAL

1 ¼ – 2"/DN32 – DN50

Valve Body: AMETAL® dezincification resistant (DZR) brass alloy

Valve Plug: AMETAL®

Seat Seal: EPDM/Stainless steel

Spindle Seal: EPDM O-Ring

O-Ring: EPDM

Valve Insert: AMETAL®/Polyphenylsulphide (PPS)/Polytetrafluoroethylene (PTFE)

Δp Insert: Stainless steel/PPS

Membrane: HNBR

Springs: Stainless steel

Spindle: Stainless steel

NOTE

- AMETAL® is the dezincification-resistant brass alloy of IMI TA.

4"/DN100

Valve Body: Ductile iron EN-GJS-400

Valve Plug: Stainless steel

Seat Seal: EPDM/Stainless steel

O-Ring: EPDM

Plug Mechanisms: Stainless steel and brass

Membrane: EPDM

Δp Spring: Stainless steel (6"/DN150 = Painted steel)

Screws & Nuts: Stainless steel

Surface Treatment

- ☐ 1 ¼ – 2"/DN32 – DN50: Non-treated
- ☐ 4"/DN100: Electrophoretic painting

Connection

- ☐ 1 ¼ – 2"/DN32 – DN50: Female thread NPT
- ☐ 4"/DN100: Class 150 flange

4.0 DIMENSIONS

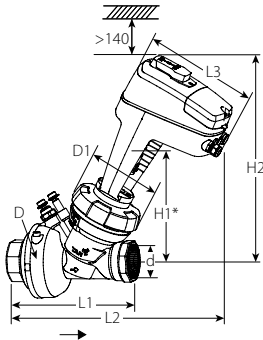
Sets

1 ¼ – 2"/DN32- DN50 Female Threads

TA-Slider 750

Input signal: 0(2)-10 VDC, 0(4)-20 mA, 3-point, on-off

24 VAC/VDC and 100-240 VAC



Size		Dimensions							Weight
Nominal inches DN	Actual Outside Diameter inches mm	D inches mm	D1 inches mm	L1 inches mm	L2 inches mm	L3 inches mm	H1 ¹ inches mm	H2 inches mm	Approximate (Each) lb kg
1 ¼ DN32	1.660 42.4	5.12 130	5.04 128	8.39 213	16.14 410	8.23 209	7.32 186	14.21 361	18.1 8.2
1 ½ DN40	1.900 48.3	5.12 130	5.04 128	8.58 218	16.14 410	8.23 209	7.32 186	14.21 361	18.1 8.2
2 DN50	2.375 60.3	5.12 130	5.04 128	8.90 226	16.34 415	8.23 209	7.48 190	14.37 365	19.2 8.7

¹ Height to the spindle top.

NOTES

- = Flow direction
- For maximum ΔpV_{close}, see "Selection tables."
- Valve and actuator are individually packaged for easy handling onsite.

4.0 DIMENSIONS (CONTINUED)

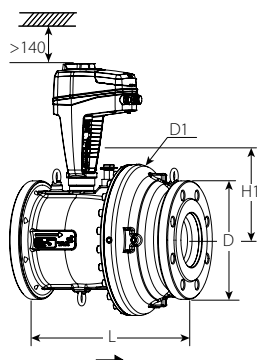
Sets

4"/DN100 with Flanges (ANSI Class 150)

TA-Slider 750

Input signal: 0(2)-10 VDC, 0(4)-20 mA, 3-point, on-off

24 VAC/VDC and 100-240 VAC



Size		Dimensions				Weight
Nominal	Actual Outside Diameter	D	D1	L	H1 ¹	Approximate (Each)
inches DN	inches mm	inches mm	inches mm	inches mm	inches mm	lb kg
4 DN100	4.500 114.300	9.06 230	12.20 310	13.78 350	8.70 221	130.1 59.0

¹ Height to the spindle top.

NOTES

- = Flow direction
- For maximum $\Delta p_{V_{close}}$, see "Selection tables."
- Valve and actuator are individually packaged for easy handling onsite.

4.1 DIMENSIONS

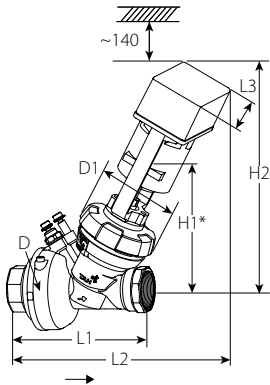
Fail-Safe Sets, Extending (Closing)

1 ¼ – 2"/DN32 – DN50 Female Threads

TA-MC100FSR

Input signal: 0(2)-10 VDC, 0(4)-20 mA, 3-point

24 VAC/VDC and 100-240 VAC



Size		Dimensions							Weight
Nominal	Actual Outside Diameter	D	D1	L1	L2	L3	H1 ¹	H2	Approximate (Each)
inches	inches	inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	mm	mm	mm	kg
1 ¼	1.660	5.12	5.04	8.39	14.92	5.55	7.32	14.02	20.5
DN32	42.4	130	128	213	379	141	186	356	9.3
1 ½	1.900	5.12	5.04	8.58	14.92	5.55	7.32	14.02	20.5
DN40	48.3	130	128	218	379	141	186	356	9.3
2	2.375	5.12	5.04	8.90	15.08	5.55	7.48	14.17	21.6
DN50	60.3	130	128	226	383	141	190	360	9.8

¹ Height to the spindle top.

NOTES

- = Flow direction
- For maximum $\Delta p_{V_{close}}$, see "Selection tables."
- Valve and actuator are individually packaged for easy handling onsite.

4.2 DIMENSIONS

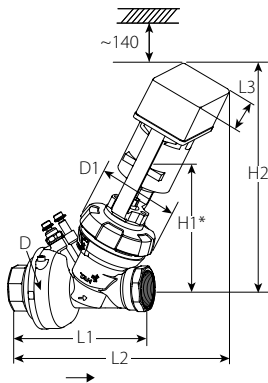
Fail-Safe Sets, Retracting (Opening)

1 ¼ – 2"/DN32 – DN50 Female Threads

TA-MC100FSR

Input signal: 0(2)-10 VDC, 0(4)-20 mA, 3-point

24 VAC and 230 VAC



Size		Dimensions							Weight
Nominal	Actual Outside Diameter	D	D1	L1	L2	L3	H1 ¹	H2	Approximate (Each)
inches	inches	inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	mm	mm	mm	kg
1 ¼	1.660	5.12	5.04	8.39	14.92	5.55	7.32	14.02	20.5
DN32	42.4	130	128	213	379	141	186	356	9.3
1 ½	1.900	5.12	5.04	8.58	14.92	5.55	7.32	14.02	20.5
DN40	48.3	130	128	218	379	141	186	356	9.3
2	2.375	5.12	5.04	8.90	15.08	5.55	7.48	14.17	21.6
DN50	60.3	130	128	226	383	141	190	360	9.8

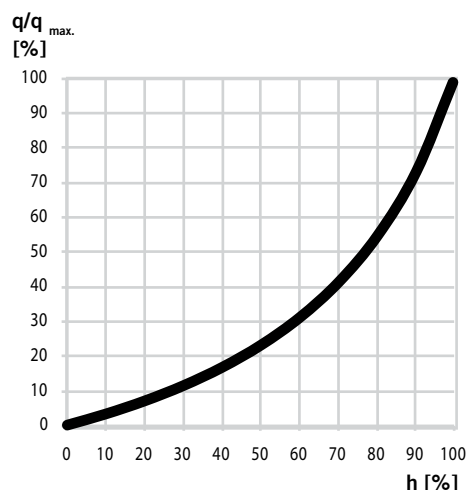
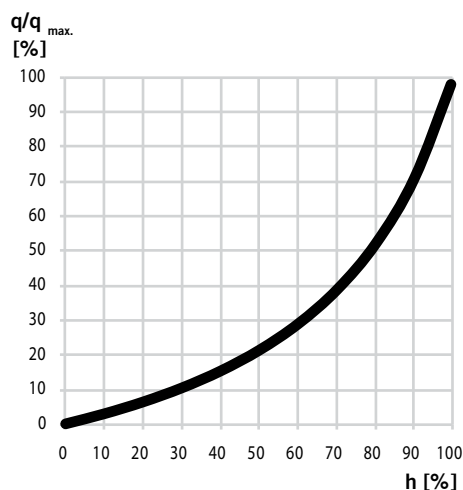
¹ Height to the spindle top.

NOTES

- = Flow direction
- For maximum $\Delta p_{V_{close}}$, see "Selection tables."
- Valve and actuator are individually packaged for easy handling onsite.

5.0 PERFORMANCE

Valve Characteristics

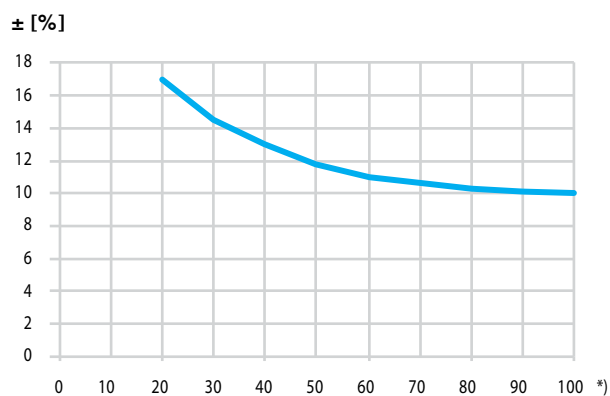
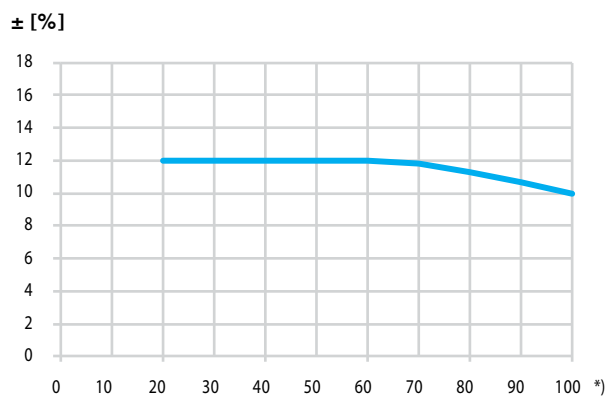


NOTE

- Nominal valve characteristic for all recommended settings.

Measuring Accuracy

Maximum Flow Deviation At Different Settings



^{*)} Setting (%) of fully open valve.

Correction Factors

The flow calculations are valid for water (+68°F/+20°C). For other liquids with approximately the same viscosity as water (≤ 20 cSt = $3^\circ\text{E}=100\text{S.U.}$), it is only necessary to compensate for the specific density. However, at low temperatures, the viscosity increases and laminar flow may occur in the valves.

This causes a flow deviation that increases with small valves, low settings and low differential pressures. Correction for this deviation can be made with the software HySelect or directly in IMI TA balancing instruments.

Noise

In order to avoid noise in the installation, the valve must be correctly installed and the water de-aerated.

5.0 PERFORMANCE (CONTINUED)

q_{max} Values

Important: All values are provisional and may be subject to change.

Size		Position									
Nominal inches DN	Actual Outside Diameter inches mm	1 Cv Kv	2 Cv Kv	3 Cv Kv	4 Cv Kv	5 Cv Kv	6 Cv Kv	7 Cv Kv	8 Cv Kv	9 Cv Kv	10 Cv Kv
1 ¼ DN32	1.660 42.4	3.9 3.3	4.5 3.9	5.3 4.0	6.3 5.5	7.6 6.6	9.6 8.3	11.4 9.9	14.0 12.1	16.4 14.2	18.5 16.0
1 ½ DN40	1.900 48.3	4.5 3.9	5.5 4.8	6.9 5.9	8.8 7.6	10.8 9.4	13.4 11.6	16.7 14.4	20.3 17.6	23.8 20.6	27.3 23.6
2 DN50	2.375 60.3	11.9 10.3	14.6 12.6	17.8 15.4	21.6 18.7	25.9 22.4	30.4 26.3	34.6 29.9	39.2 33.9	44.9 38.8	48.9 42.3

NOTES

- q_{max} = gpm/l/h at each setting and fully open valve plug.
- 1 ¼ – 2"/DN32 – DN50: Recommended setting range 2-10.

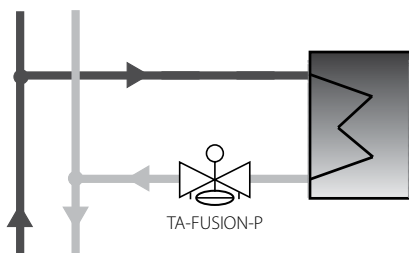
Size		Position									
Nominal inches DN	Actual Outside Diameter inches mm	5.5 Cv Kv	6 Cv Kv	6.5 Cv Kv	7 Cv Kv	7.5 Cv Kv	8 Cv Kv	8.5 Cv Kv	9 Cv Kv	9.5 Cv Kv	10 Cv Kv
4 DN100	4.500 114.3	61.6 53.3	73.1 63.2	86.7 75.0	103.0 89.1	122.0 105.5	145.0 125.4	174.0 150.5	203.0 175.6	249.0 215.4	299.0 258.6

NOTES

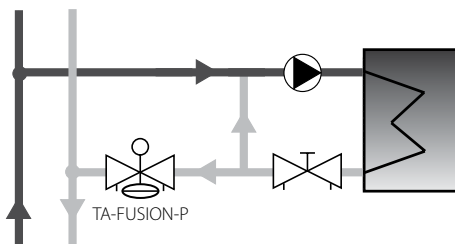
- q_{max} = gpm/l/h at each setting and fully open valve plug.
- 4"/DN100: Recommended setting range 7.5–10.

5.0 PERFORMANCE (CONTINUED)

Application Examples



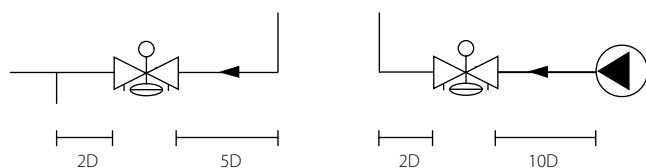
2-Way Direct Circuit



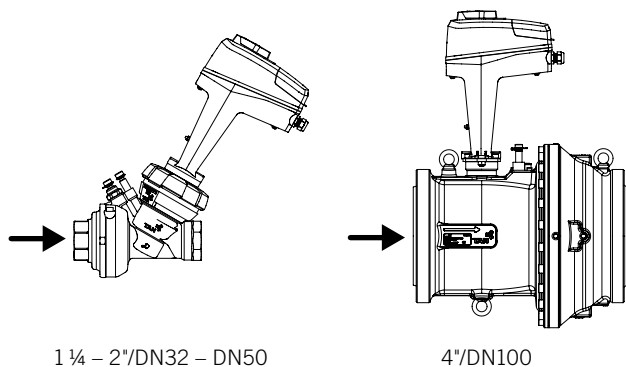
Injection Circuit

Normal Pipe Fittings

Avoid mounting taps and pumps immediately before or after the valve. Installation recommendation for accurate measurement due to distortion of fully developed turbulent flow profile.



Flow Direction

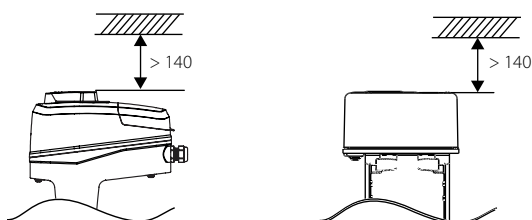


1 1/4 - 2\"/>

4\"/>

Installation of Actuator

Approx. 0.04\"/>



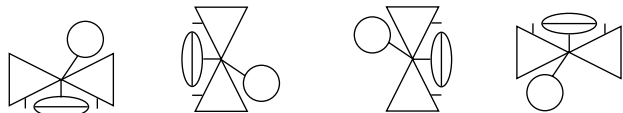
5.0 PERFORMANCE (CONTINUED)

Ingress Protection

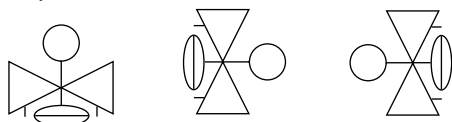
IP54

TA-Slider 750

1¼ – 2" | DN32 – DN50

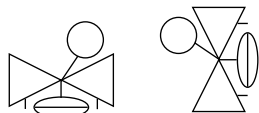


4" | DN100

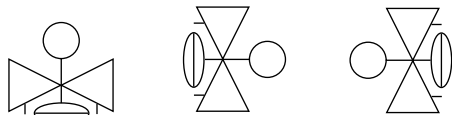


TA-MC100 FSE/FSR

1¼ – 2" | DN32 – DN50



4" | DN100



NOTES

- Read the actuator's installation instructions carefully.
- Intended for indoor installation applications.
- Four outdoor installation applications, please contact IMI TA. In cooling systems, the pipe and valve must be insulated.

5.0 PERFORMANCE (CONTINUED)

Actuators

A wide range of high performance proportional actuators are available from IMI TA (e.g. 24V, 115V, fail safe) to provide accurate modulating or 3-point control, when used together with combined control and balancing valves. See "Selection Tables" below.

For more details on actuators, see related technical leaflet "TA-MC Actuators" or contact Victaulic.

Selection Tables

Valves and actuators are supplied together ensuring optimum control and simplified selection.

The codes in the selection tables are for different sets of valve size (inches/mm) and type of actuator. All fail safe and non-fail safe sets are able to close off (or fail safe open) against 0–maximum.

ΔpV (50 – 58 psi/350 – 400 kPa).

For more details on actuators, see related technical leaflet "TA-MC Actuators" or contact Victaulic.

5.0 PERFORMANCE (CONTINUED)

Valve With Fail Safe Actuators

Selection Tables – Individual Components

The valve and actuator sets detailed previously ensure optimum control and simplified selection and are therefore the recommended option. Under certain circumstances, however, such as when delivery to the jobsite is required on different dates, the individual set components may be ordered using the following table:

TA Series 7FP – Valve Only

Size Inches mm	Victaulic Part Code
1 ¼ 32	V0127FP000
1 ½ 40	V0147FP000
2 50	V0207FP000
4 100	V0407FP000

TA Series 7FP – Actuator Only

Size inches	Actuator*	TA Actuator Nomenclature	Supply Voltage	Input Signal Options	Victaulic Part Code
1 ¼ – 2	M	TA-MC55/24	24V AC/DC	3 point or on/off	P0127FC00M
1 ¼ – 2	N	TA-MC55/115	115VAC	3 point or on/off	P0127FC00N
1 ¼ – 2	P	TA-MC55/Y	24V AC/DC	0 – 1 0V; 4 – 20mA	P0127FC00P
1 ¼ – 4	Q	TA-MC100/24	24V AC/DC	0 – 10V; 4 – 20mA; 3 point or on/off	P0127FC00Q
1 ¼ – 4	R	TA-MC100/115	115VAC	0 – 10V; 4 – 20mA; 3 point or on/off	P0127FC00R
1 ¼ – 4	S	TA-MC100FSE/24	24V AC/DC	0 – 10V; 4 – 20mA; 3 point or on/off	P0127FC00S
1 ¼ – 4	T	TA-MC100FSR/24	24V AC/DC	0 – 10V; 4 – 20mA; 3 point or on/off	P0127FC00T

NOTE

- A 4" actuator needs to use an adapter (part code: P0247FCADP).

5.0 PERFORMANCE (CONTINUED)

Slider – Actuator Only

Actuators	Actuator Code Option	Supply Voltage	Input Signal Options	Victaulic Part Code
TA Slider 750	70	24 VAC/VDC	0(2)- 10 VDC, 0(4)-20 mA, 3-point, on-off	P0007FC070
	G0	100-240 VAC	0(2)- 10 VDC, 0(4)-20 mA, 3-point, on-off	P0007FC0G0
TA Slider 750 Plus	8A	24 VAC/VDC	With binary input, relays, mA output	P0007FC08A
	HA	100-240 VAC	With binary input, relays, mA output	P0007FC0HA
	8B	24 VAC/VDC	KNX-TP Twisted Pair with BUS communication (without binary input, relays, mA output)	P0007FC08B
	8C		Modbus/RTU RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC08C
	8D		BACnet MS/TP RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC08D
	8E		Modbus/TCP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC08E
	8F		KNX/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC08F
	8G		BACnet/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC08G
	HB	100-240 VAC	KNX-TP Twisted Pair with BUS communication (without binary input, relays, mA output)	P0007FC0HB
	HC		Modbus/RTU RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC0HC
	HD		BACnet MS/TP RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC0HD
	HE		Modbus/TCP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC0HE
	HF		KNX/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC0HF
	HG		BACnet/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC0HG
	8I	24 VAC/VDC	KNX-TP Twisted Pair with BUS communication, binary input, relays, mA output	P0007FC08I
	8J		Modbus/RTU RS 485 with BUS communication, binary input, relays, mA output	P0007FC08J
	8K		BACnet MS/TP RS 485 with BUS communication, binary input, relays, mA output	P0007FC08K
	8L		Modbus/TCP Ethernet with BUS communication, binary input, relays, mA output	P0007FC08L
	8M		KNX/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC08M
	8N		BACnet/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC08N
	HI	100-240 VAC	KNX-TP Twisted Pair with BUS communication, binary input, relays, mA output	P0007FC0HB
	HJ		Modbus/RTU RS 485 with BUS communication, binary input, relays, mA output	P0007FC0HC
	HK		BACnet MS/TP RS 485 with BUS communication, binary input, relays, mA output	P0007FC0HD
	HL		Modbus/TCP Ethernet with BUS communication, binary input, relays, mA output	P0007FC0HE
	HM		KNX/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC0HF
	HN		BACnet/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC0HG

5.0 PERFORMANCE (CONTINUED)

Slider – Actuator Only

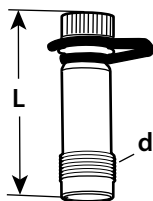
Actuators	Actuator Code Option	Supply Voltage	Input Signal Options	Victaulic Part Code
TA Slider 1250	50	24 VAC/VDC	0(2)- 10 VDC, 0(4)-20 mA, 3-point, on-off	P0007FC08I
	E0	100-240 VAC	0(2)- 10 VDC, 0(4)-20 mA, 3-point, on-off	P0007FC08J
TA Slider 1250 Plus	6A	24 VAC/VDC	With binary input, relays, mA output	P0007FC08K
	FA	100-240 VAC	With binary input, relays, mA output	P0007FC08L
	6B	24 VAC/VDC	KNX-TP Twisted Pair with BUS communication (without binary input, relays, mA output)	P0007FC08M
	6C		Modbus/RTU RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC08N
	6D		BACnet MS/TP RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC06D
	6E		Modbus/TCP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC06E
	6F		KNX/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC06F
	6G		BACnet/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC06G
	FB	100-240 VAC	KNX-TP Twisted Pair with BUS communication (without binary input, relays, mA output)	P0007FC0FB
	FC		Modbus/RTU RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC0FC
	FD		BACnet MS/TP RS 485 with BUS communication (without binary input, relays, mA output)	P0007FC0FD
	FE		Modbus/TCP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC0FE
	FF		KNX/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC0FF
	FG		BACnet/IP Ethernet with BUS communication (without binary input, relays, mA output)	P0007FC0FG
	6I	24 VAC/VDC	KNX-TP Twisted Pair with BUS communication, binary input, relays, mA output	P0007FC06I
	6J		Modbus/RTU RS 485 with BUS communication, binary input, relays, mA output	P0007FC06J
	6K		BACnet MS/TP RS 485 with BUS communication, binary input, relays, mA output	P0007FC06K
	6L		Modbus/TCP Ethernet with BUS communication, binary input, relays, mA output	P0007FC06L
	6M		KNX/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC06M
	6N		BACnet/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC06N
	FI	100-240 VAC	KNX-TP Twisted Pair with BUS communication, binary input, relays, mA output	P0007FC0FI
	FJ		Modbus/RTU RS 485 with BUS communication, binary input, relays, mA output	P0007FC0FJ
	FK		BACnet MS/TP RS 485 with BUS communication, binary input, relays, mA output	P0007FC0FK
	FL		Modbus/TCP Ethernet with BUS communication, binary input, relays, mA output	P0007FC0FL
	FM		KNX/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC0FM
	FN		BACnet/IP Ethernet with BUS communication, binary input, relays, mA output	P0007FC0FN

5.0 PERFORMANCE (CONTINUED)

Accessories

Measuring Points

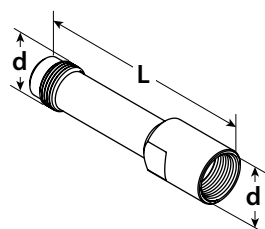
For 4"/DN100 size



d mm	L inches mm	Victaulic Part Code
M14x1	1.7 44	K000740011
M14x1	4.1 103	K000740010

Extension For Measuring Point M14x1

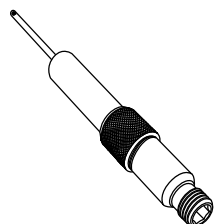
Suitable when insulation is used for 4"/DN100 size



d	L	Victaulic Part Code
M14x1	2.8 71	K000740008

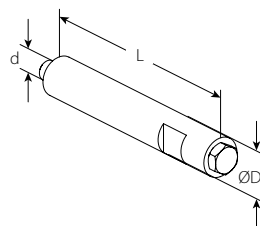
Measuring Point

2.4"/60 mm extensions can be installed without draining of the system for all dimensions



L	Victaulic Part Code
2.4 60	K000740012

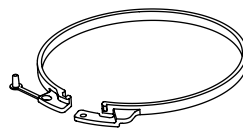
Venting Extension



d	D mm inches	L mm inches	Victaulic Part Code
M6	12 0.47	70 2.76	P0007PROVE

Tamper-Proof Ring

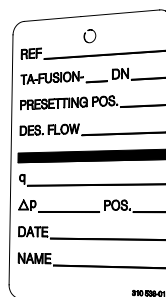
For locking of set



For DN inches mm	Victaulic Part Code
1 ¼ – 2 32 – 50	P0007FCRNG

Identification Tag

For locking of set



Victaulic Part Code
P0007FCTAG

Actuator Mounting Adapter (Used with 4"/DN100 valve only)

Victaulic Part Code
P0247FCADP

Actuator Accessories

See related technical leaflet "TA-MC Actuators."

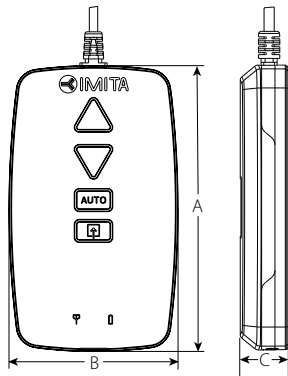
Insulation

See related insulation instructions under "Products & Solutions" on www.imi-hydronic.com.

5.0 PERFORMANCE (CONTINUED)

Accessories

Dongle (for use with Slider actuators)



Size			Victaulic Part Code
A inches mm	B inches mm	C inches mm	
5.12 130	3.03 77	0.71 18	P0007MPDON

NOTE

- For Bluetooth communication with the HyTune app, transfer configuration settings, and manual override.

6.0 NOTIFICATIONS

Not applicable – contact Victaulic with any questions.

7.0 REFERENCE MATERIALS

[08.37: Victaulic Compact Pressure Independent Balancing and Control Valve \(Compact-P\) TA Series 7CP](#)

[08.38: Victaulic TBV Terminal Balancing and Control Valves TA Series TC/TCM](#)

[08.55: Victaulic Pressure Independent Balancing and Modulating Control Valve TA Series 7MP](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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Note

This product shall be manufactured by Victaulic or to Victaulic specifications. Victaulic recommends all products to be installed in accordance with current IMI TA installation/assembly instructions. Victaulic and IMI TA reserve the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Installation

Reference should always be made to the current IMI TA installation/assembly instructions for the product you are installing. For coupling and strainer installation, reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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