

Orange Research

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www.orangeresearch.com

Product specifications for model 2500

Metal(SS,Brass,Alum)

Functions	Flow Gauge, Flow Gauge/Switch
Sensor type	<u>Primary</u> : Orifice <u>Secondary</u> : Diaphragm
Standard Ranges(GPM)	<u>2510</u> : 5,10 <u>2520</u> : 15,20,30,40 <u>2530</u> : 50,60,75,100,150,200
Max. line pressure	500 psig
Min. burst pressure	1500 psig at 200°F
Standard maximum temperature	Gauge: 200°F standard (glass lens), 150°F (plastic lens) Gauge/Switch: 176°F reed switch, 150°F (plastic lens)
Minimum temperature	-20°F
Calibration accuracy**	±2% of full scale ascending after rap at room temperature*
Calibration medium	Water at room temperature
Repeatability	±1% of full scale
Switches/relays	1 or 2 hermetically sealed reed switches (SPST: NO or NC, SPDT)
Switch adjustability	Upper 50% of full scale ascending
Switch dead band	5-20% Full Scale
Certification	N/A
Porting size	<u>2510</u> : ½" NPT(5-10 GPM) <u>2520</u> : 1" NPT(15-40 GPM) <u>2530</u> : 2" NPT(50-200 GPM)
Porting orientation	In-line
Direction of Flow	<u>STANDARD</u> : Left to right <u>OPTIONAL</u> : Right to Left (Reverse Flow)
Primary wetted parts	Aluminum, 316SS, Brass
Secondary wetted parts	<u>Range Spring</u> : 302SS <u>Magnet</u> : Ceramic
Static seals	Buna-N
Diaphragm	Buna-N
Lens	<u>STANDARD</u> : Glass <u>OPTIONAL</u> : Plastic
Dial sizes	3.5"
Dial case styles	"B" Basic Aluminum case
Dial Starting Mark	20% of full scale

* Calibration accuracy is affected by temperature.

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Product specifications for model 2500

PVC/CPVC

Functions	Flow Gauge, Flow Gauge/Switch
Sensor type	<u>Primary</u> : Orifice <u>Secondary</u> : Diaphragm
Standard Ranges(GPM)	<u>2510</u> : 5,10 <u>2520</u> : 15,20,30,40 <u>2530</u> : 50,60,75,100,150,200
Max. line pressure	100 psig
Min. burst pressure	500 psig, at 140°F for PVC, 180°F for CPVC
Standard maximum temperature	<u>All Options</u> : 140°F for PVC 180°F for CPVC
Minimum temperature	32°F
Calibration accuracy**	±2% of full scale ascending after rap at room temperature*
Calibration medium	Water at room temperature
Repeatability	±1% of full scale
Switches/relays	1 or 2 hermetically sealed reed switches (SPST: NO or NC, SPDT)
Switch adjustability	Upper 50% of full scale ascending
Switch dead band	5-20% Full Scale
Certification	N/A
Porting size	<u>2510</u> : ½" NPT(5-10 GPM) <u>2520</u> : 1" NPT(15-40 GPM) <u>2530</u> : 2" NPT(50-200 GPM)
Porting orientation	In-line
Direction of Flow	<u>STANDARD</u> : Left to right <u>OPTIONAL</u> : Right to Left (Reverse Flow)
Primary wetted parts	PVC or CPVC
Secondary wetted parts	<u>Range Spring</u> : 302SS Teflon Coated <u>Magnet</u> : Ceramic, Teflon Coated
Static seals	Viton or EPDM
Diaphragm	Viton or EPDM
Lens	tempered glass
Dial sizes	3.5"
Dial case styles	"B" Basic Lexan case
Dial Starting Mark	20% of full scale

* Calibration accuracy is affected by temperature.

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