

**SPX Series**

- Low Flow Capability
- Flow Range .05-40 GPM
- Jewel Bearings
- Accuracy  $\pm 1\%$  of Full Scale
- Maximum Temperature 160°F
- Maximum Pressure 150 PSI
- Turndown Ratio 100:1



**SPX Series**  
Sizes 3/8", 1/2", 3/4", 1" (Female NPT)

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**SPECIAL FEATURES****Accuracy to 1% of Full Scale**

The Hays SPX Series Meters are accurate to  $\pm 1\%$  of full scale of normal flow range.

**High Quality Polymer and Bearings**

Insures long lasting accuracy with lowest wear and corrosion resistance even under severe installation conditions.

**Low Maintenance**

The Hays SPX Series are designed for long, maintenance free life.

**Installs in any Position**

Installation in any position gives flexibility to those difficult placement conditions.

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**GENERAL INFORMATION**

The Hays SPX meters employ jewel bearings for very low minimum flows. The 6-24 VDC pulse output is compatible with many different types of controls. SPX meters are available in 3/8"-1" female pipe threads. The standard body material is polypropylene, with transparent acrylic top. Polypropylene tops are available as an option. The standard impeller is Kynar.

### TYPICAL APPLICATIONS

SPX can be used with:

- Flow Monitoring FT400 Series Flow Computer
- Analog output AO45 Blind Transmitter

### HOW TO ORDER

**Specify:** model, body option, size

**Example:** SPXKC 1/2"

Polypropylene Body, Kynar Rotor Ceramic Shaft

Standard:

Body: Polypropylene  
 Cover: Acrylic  
 Rotor: Kynar  
 Shaft: Tungsten Carbide  
 Bearings: Ruby, Sapphire

Options:

Body: PVC (P)  
 Cover: Polypropylene or PVC (PP)  
 Rotor: PVDF (Kynar) (K)  
 Shaft: Ceramic (C)

### SPECIFICATIONS

**Connections:** 3/8", 1/2", 3/4", 1"  
 Female NPT standard

**Flow Rates (GPM):**

3/8"	0.05 - 5
1/2"	0.1 - 10
3/4"	0.2 - 2.0
1"	0.5 - 40

**Materials:**

Body Polypropylene, PVC optional  
 Cover Acrylic, body mat. optional  
 Rotor Polypro, PVDF optional  
 Shaft Tungsten Carbide,  
 ceramic optional  
 Bearings Ruby, Sapphire

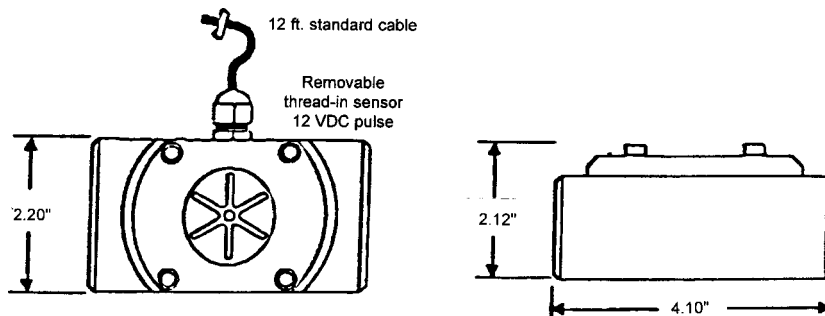
**Nominal K-Factors:**

(Pulses per Gallon)

3/8"	1600
1/2"	500
3/4"	300
1"	90

**Max. Temperature:** 160°F  
**Max. Pressure:** 150 PSI  
**Accuracy:** ±1% FS

**Dimensions:**



**SPX - TFE Series**

- Chemical Resistant (all Teflon)
- Wide Sprectrum of Compatibility
- Maximum Temperature 250
- Maximum Pressure 150 PSI
- Flow Range .05 - 40 GPM
- Accuracy  $\pm 1\%$  of Full Scale
- Turndown Ratio 100:1



**SPX - TFE**  
Sizes 3/8", 1/2", 3/4", 1"

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**SPECIAL FEATURES****Wide Range of Chemical Compatibility**

This gives the SPX-TFE meter a broad spectrum of application needs it will meet

**Accuracy to 1% of Full Scale**

The Hays SPX Series Meters are accurate to  $\pm 1\%$  of full scale of normal flow range.

**Installs in any Position**

Installation in any position gives flexibility to those difficult placement conditions.

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**GENERAL INFORMATION**

The SPX-TFE is an all Teflon version of our SPX Low Flow Meter. The wetted parts are: PTFE (Teflon) for body and lens, PVDF (Kynar) rotor; Ruby and Sapphire bearings, and a Hi-Alumina Ceramic shaft. Designed to provide an accurate and economical low flow meter, the SPX-TFE can handle many aggressive and corrosive water-based liquids such as acids, caustics and solvents. The Hall Effect Sensor permits easy interface with PLC's and other control systems.

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**TYPICAL APPLICATIONS**

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- Food
- Pharmaceuticals
- Petro/Chemical
- High Purity Water

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**HOW TO ORDER**

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**Specify:** model, size

**Example:** SPX-TFE 3/8"

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**SPECIFICATIONS**

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**3-8****Materials:**

Meter Body	PTFE (Teflon)
Rotor:	PVDF(Kynar)
Shafts:	Ceramic
Bearings:	Ruby and Sapphire
Lens:	PTFE (translucent only)
O-ring:	Viton
Piping:	Female NPT Thread

**Maximum Temperature:** 250°F

**Maximum Pressure:** 150 psi

<b>Flow Rates:</b>	3/8"	0.05 - 5 gpm
	1/2"	0.1 - 10 gpm
	3/4"	0.2 - 20 gpm
	1"	0.5 - 40 gpm

**Pulse Output:** Hall Effect

**Dimensional Drawings:** Refer to "SPX - Dimensions"