

### GENERAL INFORMATION

The accuracy of Seametrics flow meters depends on the accuracy of the K-factor for each meter fitting or spool piece. Tee fittings and spool-type meters are wet-calibrated in the factory before shipping to the customer, and the K-factor appears on a label on each individual fitting or meter. Saddle and weldolet fittings cannot be factory-calibrated because the K-factor will vary depending on the type of pipe on which the meter is installed.

### SADDLE AND WELDOLET FITTINGS

The charts below give K-factors for EX80 (magmeter), TX80 (turbine), and IP80 (paddlewheel) series meters installed in saddle or weldolet fittings on various pipes. On the chart that corresponds to your meter type, locate your pipe size and type. Enter the corresponding K-factor into your controller.

### K-FACTORS FOR SADDLE AND WELDOLET FITTINGS

TX80 K-factors are valid for meters purchased **BEFORE January 1, 2011** only.  
 For TX80 meters purchased **AFTER January 1, 2011** use the K-factor calculator on the Seametrics website: [seametrics.com/k-factor-calculator](http://seametrics.com/k-factor-calculator)

	IP80 SERIES				TX80 SERIES				EX80 SERIES				
	3"	4"	6"	8"	3"	4"	6"	8"	3"	4"	6"	8"	10"
PVC/Steel Sch. 40	28.92	16.790	7.412	4.275	17.410	10.110	4.457	2.133	70.397	40.985	18.130	10.497	6.674
PVC/Steel Sch. 80	32.368	18.591	8.215	4.684	19.486	11.195	4.940	2.336	78.748	45.360	20.084	11.495	7.322
Stainless Steel (10S)	25.614	14.996	6.747	3.926	15.420	9.030	4.057	1.958	62.385	36.626	16.510	9.642	6.173
Stainless Steel (40S)	28.920	16.790	7.412	4.275	17.410	10.110	4.457	2.133	70.397	40.985	18.130	10.497	6.674
Copper Tubing (Type L)	31.386	17.847	7.981	4.563	18.895	10.746	4.799	2.276	76.371	43.552	19.513	11.201	7.230
Copper Tubing (Type K)	32.212	18.294	8.272	4.736	19.392	11.015	4.975	2.362	78.371	44.638	20.223	11.622	7.500
Brass Pipe	29.033	17.009	7.268	4.254	17.478	10.242	4.370	2.122	70.672	41.517	17.778	10.445	6.674
Duct. Iron (Class 52)	23.548	15.282	6.913	3.485	14.176	9.202	4.157	1.738	57.376	37.320	16.915	9.503	6.197

**NOTE:** These K-factors are in Pulses Per Gallon. To convert to Pulses Per Liter, divide by 3.785.

For tee fittings and spool-type meters, see next page.

**NOMINAL K-FACTORS FOR TEE FITTINGS AND SPOOL-TYPE METERS**

All Seametrics S-series and WT-series flow meters are custom-calibrated on water to derive a single K-factor that will produce the stated flow meter accuracy and linearity over the entire flow meter range. All tee-type meter fittings for IP80 (paddlewheel), TX80 (turbine), and EX80 (magmeter) series insertion meters are also wet-calibrated to derive an individual K-factor for each device. This K-factor is written on the Serial Number label and also on the meter or tee fitting itself (below the label) in indelible ink.

However, it is sometimes useful to know the nominal (average) K-factor for control planning purposes, or in case the individual meter K-factor is no longer readable. The charts below contain nominal K-factors for S-series meters, WT-series meters, and tee fittings for 80-series insertion meters. Please note: The calibrated K-factor on any given Seametrics factory-calibrated meter or fitting will be specific to that unit and therefore somewhat different from these nominal figures.

Nominal K-Factors on Tee Fittings for Insertion Meters				
Pipe Size	Pipe Type	IP80	TX80	EX80
1/2"	Brass	497	.	.
	PVC	714	.	.
	Stainless Steel	510	.	.
	Carbon Steel	458	.	.
3/4"	Brass	343	.	.
	PVC	416	.	.
	Stainless Steel	323	.	.
	Carbon Steel	300	.	.
1"	Brass	219	.	559
	PVC before 10/04	230	.	641
	PVC after 10/04	263	.	753
	Carbon Steel	195	.	474
	Stainless Steel	206	.	500
1-1/2"	Brass	145	129	329
	PVC before 10/07	98	126	289
	PVC after 10/07	93	93.5	267
	Carbon Steel	68	61	194
	Stainless Steel	62	55	171
2"	Brass	90	87	227
	PVC	52	43	156
	Carbon Steel	64	65	187
	Stainless Steel	58	52	155
3"	Brass	37	30	95
4"	Brass	24	16	52

Pipe Size	SEB	SES	SPT	SPX
	Nominal K-Factor			
3/8"	N/A	N/A	1394	1417
1/2"	550	535	634	658
3/4"	330	390	476	468
1"	N/A	220	250	254

WT-Series Meters		
Pipe Size	Spool Type	Nominal K-Factor
2"	PVC	42.75
	Carbon Steel	63.97
	Stainless Steel	53.38
3"	PVC	10.11
	Carbon Steel	8.93
	Stainless Steel	7.53
4"	PVC	6.18
	Carbon Steel	5.18
	Stainless Steel	4.67
6"	PVC	1.92
	Carbon Steel	1.77
	Stainless Steel	1.67
8"	Carbon Steel	1.01
	Stainless Steel	.92

**NOTE:** These K-factors are in Pulses Per Gallon. To convert to Pulses Per Liter, divide by 3.785.