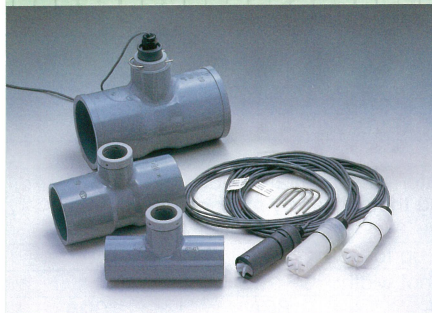


Inpella Flow Meter ASIP80 Series



FEATURES

- The ASIP80 Series is a Flow Meter of the Insertion Type that uses a Special Fitting.
- No Corrosion (All Plastic)

SPECIFICATIONS

Model		ASIP81(P/Y/K)	ASIP82(P/Y/K)
Nominal Size		15mm(1/2")-80mm(3")	100mm(4")-150mm(6")
Type of Connection		Socket, Flange	
Material	Body	Working Temperature(°C (°F))	HI-PVC: 50°C (120°F) PP : 60°C (140°F) PVDF : 90°C (194°F)
		Max. Working Pressure(at r.t.) MPa[kgf/cm²][PSI]	1.0MPa (10.2kgf/cm²) [150]
		Inpella	PVDF
	Shaft	Zirconium, Silicon-Carbide	
	Bearing	Ruby	
	O-ring	FKM (EPDM)	
Special Fitting	PVC, HI-PVC, C-PVC		
Measurement fluid		Fluid (High viscosity fluid and slurry is excluded.)	
Max. Working Temperature		0-90°C (32-194°F)	
Flowrate		0.2-9 m/s	
Range Ability		1 : 45	
Measurement accuracy		± 1.5% (FS)	
Power Source		DC6V-24V (Current Consumption: 8mA)	
Output Signal		Current Sinking Pulse (NPN) 20mA maximum	
Cable		3-con (3.6m)	
Fitting Installation		Straight pipe of at least ten times the diameter upstream of the meter, and five diameters down stream are strongly recommended.	

Figure. 1 Max. Working Pressure and Working Temperature of Special Fitting.

Temperature (°C)	Pressure MPa(kgf/cm²)[PSI]		
	PVC, HI-PVC	C-PVC	
	15mm-150mm (1/2"-6")	15mm-50mm (1/2"-2")	65mm-150mm (2 1/2"-6")
20	1.0(10.2)[150]	1.0(10.2)[150]	1.0(10.2)[150]
30	0.9(9.8)[130]	1.0(10.2)[150]	0.8(8.2)[115]
40	0.7(7.1)[100]	1.0(10.2)[150]	0.8(8.2)[115]
50	0.3(3.1)[45]	0.6(6.1)[90]	0.6(6.1)[90]
60	-	0.6(6.1)[90]	0.6(6.1)[90]
70	-	0.4(4.1)[60]	0.4(4.1)[60]
80	-	0.2(2.0)[30]	0.2(2.0)[30]
90	-	0.2(2.9)[30]	0.2(2.9)[30]

Figure. 2 Flow Rate and K-Factor

Nominal Size		Flow Rate(m³/h)	K-Factor
mm	inch	Min - Max	(cc/Pulse)
15	1/2	0.14 - 6.51	7.1
20	3/4	0.23 - 10.18	10.9
25	1	0.35 - 15.89	16.1
32	1 1/4	0.54 - 24.44	26.8
40	1 1/2	0.90 - 40.69	47.2
50	2	1.47 - 66.16	66.2
65	2 1/2	2.54 - 114.17	102.2
80	3	3.35 - 150.80	139.7
100	4	5.65 - 254.34	213.0
125	5	8.83 - 397.40	355.4
150	6	12.05 - 542.15	465.0

*1. Calculate the Maximum Frequency of Each Size by the Following Calculation method.
 Maximam Frequency(Hz) = Maximam Flow Rate(cc/s) / K-Factor(cc/Pulse)

DIMENSIONS TABLE

Unit:mm

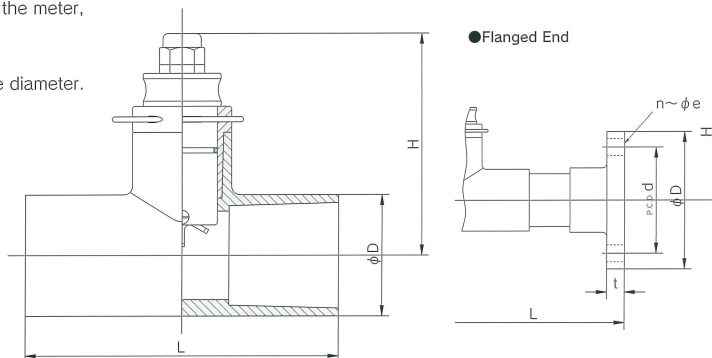
Nominal Size		Socket End						Flanged End											
		PVC/HI-PVC			C-PVC			L	H	JIS10K					JIS5K				
mm	inch	L	H	D	L	H	D			D	d	t	n	e	D	d	t	n	e
15	1/2	164	119	57	150	119	56	500	119	95	70	14	4	15	80	60	9	4	12
20	3/4	164	121	57	150	121	56	500	121	100	75	15	4	15	85	65	10	4	12
25	1	164	121	57	150	121	56	500	121	125	90	15	4	19	95	75	10	4	12
32	1 1/4	164	122	57	150	122	56	500	122	135	100	16	4	19	115	90	12	4	15
40	1 1/2	164	125	57	150	125	56	500	125	140	105	16	4	19	120	95	12	4	15
50	2	180	128	70	164	128	69	500	128	155	120	20	4	19	130	105	14	4	15
65	2 1/2	190	133	87	190	133	87	500	133	175	140	22	4	19	155	130	14	4	15
80	3	200	136	102	200	136	102	500	136	185	150	22	8	19	180	145	14	4	19
100	4	250	168	130	250	168	130	700	168	210	175	22	8	19	200	165	16	8	19
125	5	322	176	157	-	-	-	700	176	250	210	24	8	23	235	200	16	8	19
150	6	390	182	186	-	-	-	700	182	280	240	26	8	23	265	230	18	8	19

*1. Piping Condition: Straight pipe of at least ten times the diameter upstream of the meter, and five diameters down stream are strongly recommended.

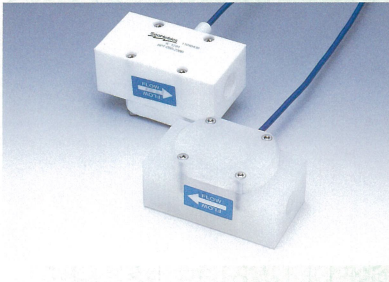
Wiring Condition: Use the Shield line when you extend wiring.

*2. When flowing quantity is displayed, the Special Indicator is needed.

*3. Some externals and the shape of the Flow meter are different according to the diameter.



Inpella Flow Meter ASSPX Series



FEATURES

- The ASSPX Series excelled in corrosion resistance, and the flow meter for low flowing quantity.
- The best for piping in the device because of its compact design.

SPECIFICATIONS

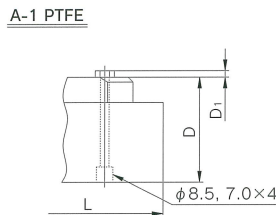
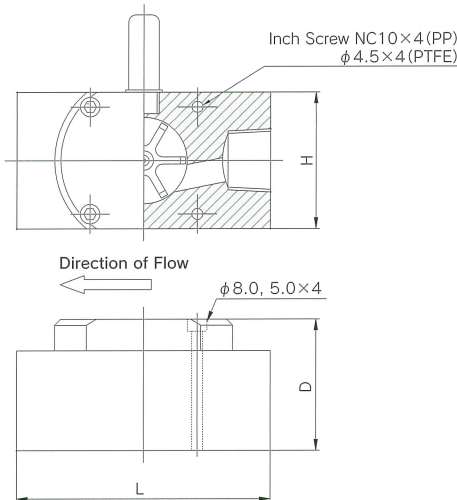
Model	ASSPX-3/8inch	ASSPX-1/2inch	ASSPX-3/4inch	ASSPX-1inch
Type of Connection	Rc 3/8	Rc 1/2	Rc 3/4	Rc 1
Material	Body	PP, PTFE		
	Cover	PP, PTFE		
	Rotor	PVDF		
	Shaft	Zirconium, Silicon-Carbide		
	Bearing	Ruby		
	O-ring	FKM (EPDM)		
Measurement fluid	Fluid (High viscosity fluid and slurry is excluded.)			
Max. Working Temperature	-10-70°C (14-158°F)			
Max. Working Pressure MPa[kgf/cm ²][PSI]	1.0(10.2)[150]			
Flowrate	See Fig.1			
Measurement Accuracy	± 1.5% (FS)			
Power Source	DC6V-24V (Current Consumption: 8mA)			
Output Signal	Current Sinking Pulse (NPN) 20mA maximum			
Cable	3-con (3.6m)			

Figure. 1 Flow Rate and K-Factor

Type of connection and Nominal Size	Installation Posture	Flow Rate(m ³ /h)	Range Ability	K-Factor (cc/Pulse)
		Min - Max		
3/8 inch	Piping is horizontal and Shaft is vertical	0.2 - 20	1 : 100	1.122
	The Others	0.4 - 20	1 : 50	
1/2 inch	Piping is horizontal and Shaft is vertical	0.4 - 40	1 : 100	2.133
	The Others	0.6 - 40	1 : 65	
3/4 inch	Piping is horizontal and Shaft is vertical	0.8 - 80	1 : 100	2.871
	The Others	1.2 - 80	1 : 65	
1 inch	Piping is horizontal and Shaft is vertical	2.0 - 200	1 : 100	5.287
	The Others	3.0 - 300	1 : 65	

*1. Calculate the Maximum Frequency of Each Size by the Following Calculation method.
 Maximam Frequency(Hz) = Maximam Flow Rate(cc/s) / K-Factor(cc/Pulse)

DIMENSIONS TABLE



- *1. Use the Shield line when you extend wiring.
- *2. When flowing quantity is displayed, the Special Indicator is needed.

Unit:mm

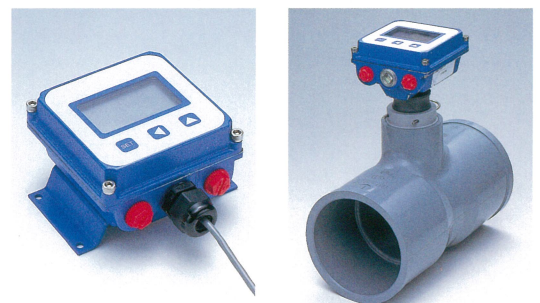
Nominal Size	Common			PTFE
	L	H	D	D ₁
RC3/8	104	56	54	3.0
RC1/2	104	56	54	3.0
RC3/4	104	56	54	3.0
RC1	104	56	54	3.0

Inpella Flow Meter Flow Indicator

SPECIFICATIONS

FT415 Specifications

Model	ASFT415-W (with Wall Mount Brackets Type)	ASFT415-M (Sensor-Mount Type)
Display	Rate	6-digit autorange, 1/2inch charater height
	Tatal	8-digit, 5/16inch charater height
Temperature	0-70°C (32-158°F)	
Pulse Output	·0.1 second solid state relay (scaled) ·sensor pulse (unscaled)	
Battery Type	Lithium "C", 3V, replaceable	
Nominal Battery Life	3-5 years	
Environmental	NEMA 4X (Correspondance of IP66)	



*1. The Mount Type can install only IP80 Series.