BNC AUTOCONTROL

FLOWMETER

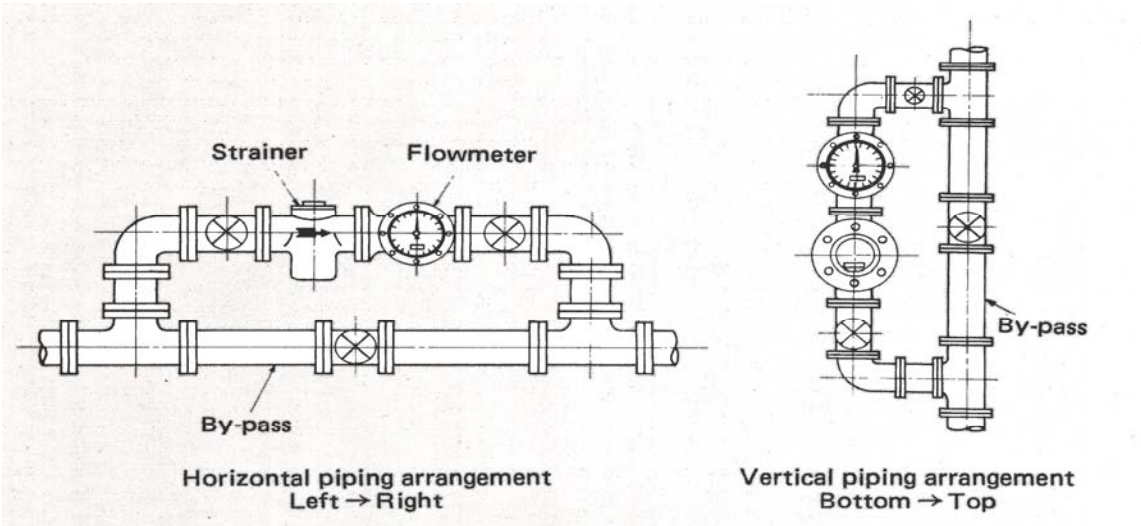
POSITIVE DISPLACEMENT FLOW METER

BNC industrial co., ltd.

MODEL CODES:

Basic Model	Size	Max. temp.	Mat'l	Display/output	Connection	Description
RO						
	25					4 M3/Hr
	40					10 M3/Hr
	40L					20 M3/Hr
	50					20 M3/Hr
	50L					40 M3/Hr
	80					3" (80mm) 40 M3/Hr
	80L					3" (80mm) 90 M3/Hr
	100					4" (100mm) 90 M3/Hr
	100L					4" (100mm) 120 M3/Hr
		-0				80 °C
		-1				120 °C
		-2				180 °C
			F			FC 25
			S			SUS316
				1		5 digit Flowrate/8 digit Totalizer
				2		Totalizer 8 Digit/ Reset 5 Digit
				3		Pulse output only
				4		5 digit Flowrate/8 digit Totalizer/Pulse
				5		5 digit Flowrate/8 digit Totalizer/4-20 mA
				+ 6		Explosion Proof - Class I, Division I, Groups B,C&D
					J10	JIS 10K FF
					J20	JIS 20K FF
					A15	ANSI 150#FF
					A30	ANSI 300#FF
					P10	PN 10
					P16	PN 16
					P20	PN 20

INSTALLATION:



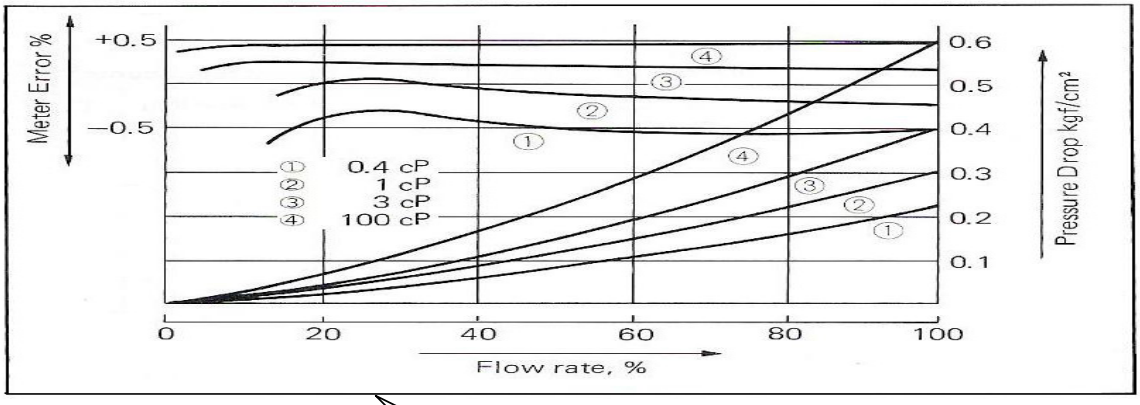
Flow Range：Accuracy ± 0.5%　　Unit：m^3/hour

Capa-city type Note 1	Dia-meter	Terms Note 2	Viscosity / Fluid	LPG	Gasoline	Kerosene	Light oil, grade-A heavy oi (high tem-perature)	Grade-A heavy oi	Grade-B heavy oil, Grade-C heavy oil, (high tem-perature)	Grade-C heavy oi		Highly viscous fluids
				Petrloeum								
				0.1cP~	0.5cP~	2cP~	5cP~	10cP~	50cP~	150cP~	500cP~	2000cP~
25	25	Normal	Continuous	-	1.4~2.8	0.8~2.8	0.3~2.8	0.3~3	0.3~3.2	0.2~3.2	0.15~3.2	0.1~2.2
			Intermittent	-	1.4~3.6	0.8~3.6	0.3~3.6	0.3~3.8	0.3~4	0.2~4	0.15~4	0.1~2.8
		Maximum		-	4	4	4	4	4.2	4.5	4.5	3
25L 40	25 40	Normal	Continuous	-	1.8~5.5	1~5.5	0.4~7	0.3~8	0.3~8	0.3~8	0.25~7	0.25~5
			Intermittent	-	1.8~8.5	1~8.5	0.4~10	0.3~10	0.3~10	0.3~10	0.25~8.5	0.25~6
		Maximum		-	10	10	10	10	10	10	8.5	6
40L 50	40 50	Normal	Continuous	-	2.5~12	2~12	1~15	0.7~16	0.7~16	0.7~16	0.6~13	0.6~10
			Intermittent	-	2.5~17	2~17	1~18	0.7~20	0.7~20	0.7~20	0.6~18	0.6~13
		Maximum		-	20	20	20	20	20	20	18	13
80	50 80	Normal	Continuous	-	5~17	3.5~25	3~25	2~35	2~35	2~35	2~25	2~20
			Intermittent	-	5~28	3.5~35	3~35	2~40	2~40	2~40	2~35	2~28
		Maximum		-	35	40	40	45	45	45	35	28
80L 100	80 100	Normal	Continuous	-	12~35	8~35	6~40	5~50	3~50	3~50	2.5~35	2.5~28
			Intermittent	-	12~50	8~50	6~55	5~55	3~55	3~55	2.5~50	2.5~35
		Maximum		-	55	55	60	60	60	60	50	35
100L	100	Normal	Continuous	-	16~85	12~85	10~120	10~120	6~120	5~120	5~85	5~60
			Intermittent	-	16~120	12~120	10~130	10~130	6~130	5~130	5~120	5~85
		Maximum			130	130	140	140	140	140	120	85

Remark:1.Intermittene : continue flowing under 8 hours　　2.Continuous:continue flowing 8-24 hours

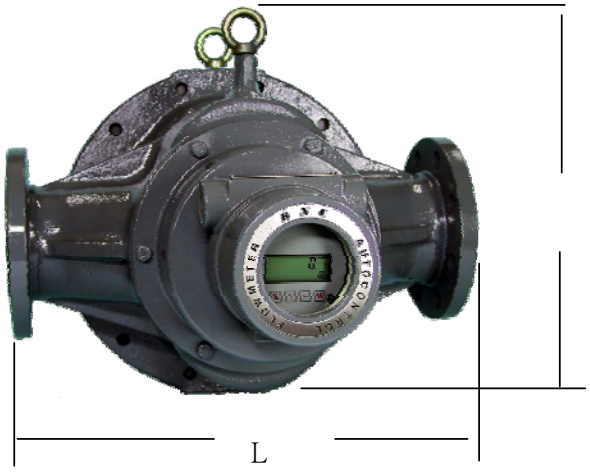
3.Maximum:Only can working in short period

PERFORMANCE CHARACTERISTICS



Elliptic Gear Type

Dimensions of flow meter



Standard specifications

Counter	8 digit, rate 5 digit
Accuracy:	0.5% (0.2% possible)
Max. Pressure:	10kg/cm^2 or 20kg/cm^2
Max. Tempereture:	180^{o}C
Connection	JIS, DIN, ANSI

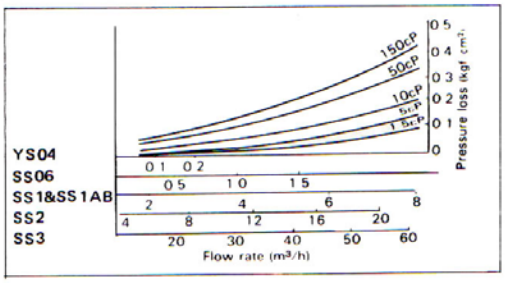
Model	L	H	B	H1	H2	H3	weight (kg)
RA25	200	288	115	78	70	140	15
RA40	230	288	115	78	70	140	18
RA50	250	340	115	105	95	140	25
RA80	350	270					50
RA80L/RA100	320	420	115	144	136	140	80
RA100L	450	653	115	260	253	140	116

STRAINER

Common specifications

Construction		Bucket type (The bore 15mm is Y-type)
Flud		Oil
Material	Body	Cast iron (FC25) or stainless steel (SUS304
	Screen	Stainless steel (SUS304)
Mesh	For E7 type flowmeter	200 mesh
	For other type flowmeter	40 mesh (over 10 cp), 80 mesh (below 10 cp)
Paint color		Munsell 1.4 PB3.1/1.2

Pressure loss characteristics

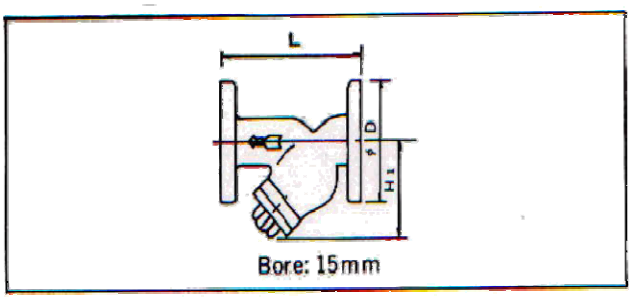


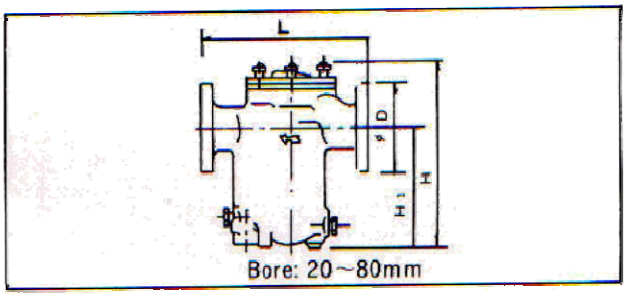
Standard specifications for each model

Model	Bore (mm)	Flange rating	Max.working pressure (kgf/cm^2)	Maximum flow m^3/n(Note)	Dimensions (mm)				Weight (kg)
					D	L	H	H_1	
Y S04	15	JIS 10kg/cm^2 FF	10	-	95	125	-	70	2
SS 06	20	JIS 10kg/cm^2 FF	10	1.5	100	180	147	110	7
SS 1	25	JIS 10kg/cm^2 FF	10	7	125	295	263	163	13
SS 1AB	40	JIS 10kg/cm^2 FF	10	7	140	295	263	163	16
SS 2	50	JIS 10kg/cm^2 FF	10	15	155	325	285	185	22
SS 3	80	JIS 10kg/cm^2 FF	10	60	185	395	380	259	41

Maximum flow is the value obtained when a pressure loss is below 0.5 kg/cm^2 at the fluid viscosity of 10 cps

Dimensional drawing





JACKETED FLOWMETERS

STANDARD AIR SEPARATOR