



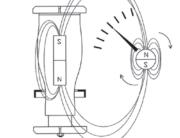
CE 2810

(PED: 2014/68/EU)

NEPS

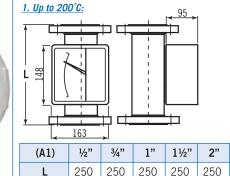
GYB19.1793X

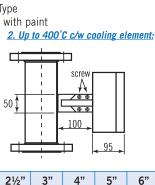




Dimensions-mm







3" 2½" 4" L 250 250 250 250 250 250 250 250 Flange rating is ANSI 150LB; please consult with the manufacturer for others flange rating and customed L length is on request.

Housing Material: IP66 (A-2) Aluminum alloy, IP68 (B-2) SS316

Case Type: (A-2) & (B-2) Round Screw Tight Type

(ITRI)2017第07-00302號 **Technical Data**

TD0400TJ

工電(2015)第00151號

BF300 for high flows of gas, liquid, steam

Case Material: Aluminum alloy case with paint; SS316 available Body Wetted Parts Material: SS316, SS316+PTFE Lining (PVDF float), others on request, indication via magnetic coupling (no sealed) Lens Material: Safety Glass

Patent No.

Taiwan: M332836

China: 1187801

Scales Calibrated: in I/h, m3/h, kg/h, %, etc.

Flow Rates For:

SS316 Float:

Approvals:

ABS

TYPE APPROVED PRODUCT SIL2 Certified

(ξx)_{II 2 G} (€ 0539

Switches with UL & CSA

Recognized and File No. E41515.

- Water: 1 I/h up to 200,000 I/h (special ranges on request) - Air: 0.03 Nm³/h up to 5,400 Nm³/h (special ranges on request) **PVDF** Float:

- Water: 4 I/h up to 10,000 I/h (special ranges on request)

- Air: 0.13 Nm³/h up to 180 Nm³/h (special ranges on request) Connection Type: Thread Type, Flange Type, Trip Clamp & Sanitary (others on request)

Connection Size: 1/4"~6"

Mounting: Vertical mounting only

Mounting Length: 250mm standard for size 1/4"~5",

300mm standard for size 6"; Special length is on request

Protection Class: Weather Proof IP66 / IP68 or Explosion proof available Accuracy: ±2% F.S (±1.6% F.S option)

Max. Pressure: 40 kg/cm² (standard); Option: up to 100 kg/cm² Working Temperature: -50°C to +200°C (standard);

up to 400°C on request

Option: Switch available (Micro switch 5A/125VAC, 5A/250VAC, 2A/30VDC); Adjustable Reed alarm switch available (form A bistable type, N.O. type); Adjustable Inductive alarm switch available; 4~20mA (2-wires) analog output available

LCD Display:

- Totalizer 10 Digital (Top) / Flow Rate 8 Digital (Bottom)

- Analog Output Available: 4~20mA (2-wires)
- Power Supply: 24 VDC

*HART® Communication: available

Two Wire Transmitter with HART® Protocol:

Ex HART

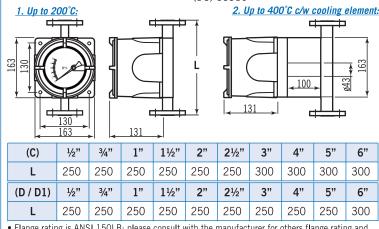
-Galvanic Isolation

-Suitable for application in SIL 2 installations

105 2. Up to 400°C c/w cooling element: 1. Up to 200°C: 105 screw ∕æê 40 L 50 100 100 d 2" 3" (A2 / B) 3/4" 1" 2½" 4" 5" 6" 1/2" 11/2" 250 300 250 250 250 250 250 250 250 250 Т • Flange rating is ANSI 150LB; please consult with the manufacturer for others flange rating and customed L length is on request.

Explosion Proof

Case Type: (C) Explosion Proof Certificate on Housing only (D) & (D1) Taiwan Explosion Proof Certification Housing Material: (C) Aluminum alloy, (D) Aluminum alloy, (D1) SS316



• Flange rating is ANSI 150LB; please consult with the manufacturer for others flange rating and customed L length is on request.

WWW_NEW-FLOW_COM • TEL: 886-7-8135500 • FAX: 886-7-8225588 • Email: info@new-flow.com

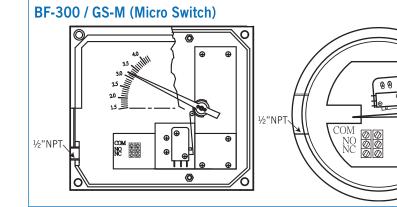
300

250

05

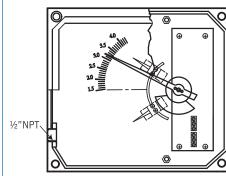
$\mathbf{R} \in \mathbf{R}$

Alarm / Analog Output



Adjustable Micro Switch, Series BF300/GS-M 1 adjustable alarm contact Load: 5A/125VAC, 5A/250VAC, 2A/30VDCTemperature: $-25^{\circ}C \sim +70^{\circ}C$ (AMB) Hysteresis: $\pm 10\%$ F.S (Dead Band)

BF-300 / GS-R (Reed Switch)



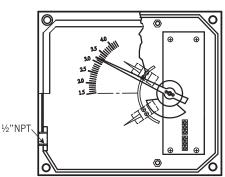
Alarm Switch: One or Two setting point, form A bistable type (N.O Type) Hysteresis: ±10% F.S (Dead Band) Switch Rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40mA

1 adjustable alarm

Contact setting point should be within 10% to 100% of F.S.

2 adjustable alarm The second setting point should be a gap 40% from first setting point

BF-300 / GS-C (Inductive Switch)



1 adjustable alarm

Contact setting point should be within 10% to 100% of F.S For 24VDC : KFD2-SR2-Ex1,W 115VAC: KFA5-SR2-Ex1.W 230VAC: KFA6-SR2-Ex1.W

Adjustable Inductive Alarm Switch **Hysteresis:** ±1% F.S (Dead Band)

Inductive Sensors Slotted Type: 3.5 mm Slot Switch

DC, voltage 2 wire's to DIN19234 (NAMUR) for use in hazardous areas - Power Supply: 8 VDC (Ri.approx. $1k\Omega$)

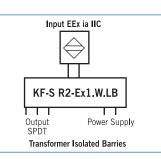
- Current Consumption: Active face uncoved 3mA; Active face coved 1mA
- Ambient Temp.: -25°C ~ +70°C

Isolated barriers output relay for inductive sensor

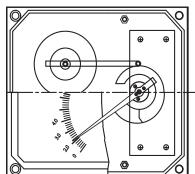
- Rail Mounting
- Control Circuit EEx ia IIC
- EMC acc to NAMUR NE21
- Contact Loading 250 VAC 2A SPDT 40 VDC 2A

2 adjustable alarm

The second setting point should be a gap 65% from first setting point For 24VDC : KFD2-SR2-Ex2.W 115VAC: KFA5-SR2-Ex2.W 230VAC: KFA6-SR2-Ex2.W

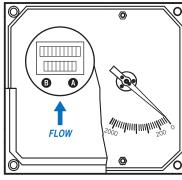


BF-300 / GT (Analog Output) / GTA (Hall Sensor)



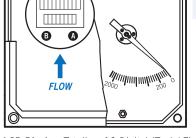
Electric Transmitter BF-300/GT/GTA Analog Output Available: 4~20mA (2-wires) No Alarm Switch Available Power Supply: 24VDC Temperature: -25°C ~ +70°C (AMB)

LCD Display / Totalizer



NOTE.

1. This is for the case type (A-1) only. 2. Please refer to the catalogue of D-1000 for the explosion proof type.



LCD Display: Totalizer 10 Digital (Top) / Flow Rate 8 Digital (Bottom) Analog Output Available: 4~20mA (2-wires) Power Supply: 24 VDC

BF300

Standard Scales

A. Float Material: SS316, SS316L available

B. Float Material: PVDF (only SS316+PTFE lining wetted parts available)

Tube	L/H 20°C Water	NM ³ /H Air 0°C 1.013bar	PmmWater	Connection	Accuracy (NOTE 1.)		
BF300a	1 ~ 10	0.03 ~ 0.3	≤750	1/2"	±5% F.S		
	1~10	0.03 ~ 0.3		⁷²			
BF300b			≤750 <750		±5% F.S		
BF3001	2.5 ~ 25	0.075 ~ 0.75	≤750 <750	1/2"	±5% F.S		
BF3002	4 ~ 40	0.13 ~ 1.3	≤750 ≤750	1/2"	±5% F.S		
BF3003	5.5 ~ 55	0.17 ~ 1.7	≤750 .750	1/2"	±5% F.S		
BF3004	8 ~ 80	0.2 ~ 2	≤750	1/2"	±2% F.S		
BF3005	16 ~ 160	0.5 ~ 5	≤750	1/2"	±2% F.S		
BF3006	18 ~ 180	0.6 ~ 6	≤750	1/2"	±2% F.S		
BF3007	30 ~ 300	1 ~ 10	≤750	1/2"	±2% F.S		
BF3008	50 ~ 500	1.5 ~ 15	≤750	1/2"	±2% F.S		
BF3009	60 ~ 600	1.8 ~ 18	≤750	1/2"	±2% F.S		
BF3010	70 ~ 700	2 ~ 20	≤750	1/2"	±2% F.S		
BF3010-1	100~ 1000	3 ~ 30	≤750	1/2"	±2% F.S		
BF3011	100 ~ 1000	3 ~ 30	≤750	3⁄4"	±2% F.S		
BF3011-1	240 ~ 2400	8 ~ 80	≤750	3⁄4"	±2% F.S		
BF3012	120 ~ 1200	4 ~ 40	≤750	1"	±2% F.S		
BF3013	160 ~ 1600	5 ~ 50	≤700	1"	±2% F.S		
BF3014	200 ~ 2000	6 ~ 60	≤700	1"	±2% F.S		
BF3015	240 ~ 2400	7 ~ 70	≤700	1"	±2% F.S		
BF3016	280 ~ 2800	8.5 ~ 85	≤700	1"	±2% F.S		
BF3017	320 ~ 3200	9 ~ 90	≤700	1"	±2% F.S		
BF3018	350 ~ 3500	10 ~ 100	≤700	1"	±2% F.S		
BF3018-1	500 ~ 5000	15 ~ 150	≤700	1"	±2% F.S		
BF3019	500 ~ 5000	14 ~ 140	≤650	1½"	±2% F.S		
BF3020	600 ~ 6000	15 ~ 150	≤650	11/2"	±2% F.S		
BF3021	700 ~ 7000	20 ~ 200	≤650	11⁄2"	±2% F.S		
BF3022	800 ~ 8000	24 ~ 240	≤650	11⁄2"	±2% F.S		
BF3022-1	1100 ~ 11000	24 ~ 240	≤650	11/2"	±2% F.S		
BF3023	1000 ~ 10000	30 ~ 300	≤650	2"	±2% F.S		
BF3024	1200 ~ 12000	35 ~ 350	≤650	2"	±2% F.S		
BF3025	1400 ~ 14000	40 ~ 400	≤650	2"	±2% F.S		
BF3026	1500 ~ 15000	45 ~ 450	≤1000	2"	±2% F.S		
	1800 ~ 18000	45 ~ 450	≤1000	2"	±2% F.S		
BF3027	1800 ~ 18000	60 ~ 600	<u>≤</u> 800	- 2½"	±2% F.S		
BF3028	2000 ~ 20000	75 ~ 750	<u>≤</u> 800	21/2"	±2% F.S		
BF3028-1	3000 ~ 30000	75 ~ 750	<u>≤</u> 800	21/2"	±2% F.S		
BF3029	2300 ~ 23000	90 ~ 900	<u>≤</u> 850	3"	±2% F.S		
BF3030	2500 ~ 25000	120 ~ 1200	<u>≤</u> 1000	3"	±2% F.S		
BF3031	2800 ~ 28000		≤1000 ≤1100	3"	±2% F.S		
BF3032	3000 ~ 30000		≤1100 ≤1200	3"	±2% F.S		
BF3032 BF300c	4000 ~ 40000	120 ~ 1200	≤1200 ≤2000	3"	±2 % F.S		
BF3000	4000 ~ 40000 6000 ~ 60000	120 ~ 1200	≤2000 ≤2200	3"	±2% F.S		
BF3033	3500 ~ 35000		≤2200 ≤1000	4"	±2% F.S		
BF3033	4000 ~ 40000	-	≤1000 ≤1000	4"	±2% F.S		
BF3034	4000 ~ 40000 5000 ~ 50000			4"			
			≤1200 <1500	4"	±2% F.S		
BF3036	6000 ~ 60000 8500 85000		≤1500 <2000	4" 4"	±2% F.S		
BF300e	8500 ~ 85000	260 ~ 2600	≤2000 <2200	4" 4"	±2% F.S		
BF300f	10000 ~ 90000	300 ~ 2900	≤2200 <2000		±2% F.S		
BF300g	8000 ~ 80000	240 ~ 2400	≤2000 <2000	5" F"	±2% F.S		
BF3037	10000 ~ 100000	300 ~ 3000	≤2000	5" 5"	±2% F.S		
BF300h	12000 ~ 120000	360 ~ 3600	≤2000	5"	±2% F.S		
BF300i	15000 ~ 150000	450 ~ 4500	≤2500	6"	±2% F.S		

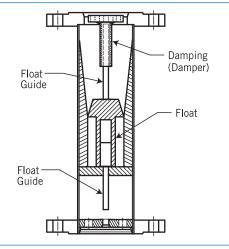
Tube	L/H 20°C Water	NM ³ /H Air 0°C 1.013bar	PmmWater	Connection	Accuracy (NOTE 1.)		
BF3001P	4 ~ 40	0.13 ~ 1.3	≤750	¹ /2"	±5% F.S		
BF3002P	5.5 ~ 55	0.17 ~ 1.7	≤750	1⁄2"	±5% F.S		
BF3003P	8 ~ 80	0.2 ~ 2	≤750	1⁄2"	±2% F.S		
BF3004P	16 ~ 160	0.5 ~ 5	≤750	¹ /2"	±2% F.S		
BF3005P	28 ~ 280	0.9 ~ 9	≤750	3⁄4"	±2% F.S		
BF3006P	35 ~ 350	1.1 ~ 11	≤750	3⁄4"	±2% F.S		
BF3007P	40~ 400	1.3 ~ 13	≤750	3⁄4"	±2% F.S		
BF3008P	50 ~ 500	1.5 ~ 15	≤750	1"	±2% F.S		
BF3009P	70 ~ 700	2 ~ 20	≤700	1"	±2% F.S		
BF3010P	90 ~ 900	2.5 ~ 25	≤700	1"	±2% F.S		
BF3011P	100 ~ 1000	3 ~ 30	≤700	1"	±2% F.S		
BF3012P	120 ~ 1200	4 ~ 40	≤700	1"	±2% F.S		
BF3013P	160 ~ 1600	5 ~ 50	≤700	1"	±2% F.S		
BF3014P	200 ~ 2000	6 ~ 60	≤700	1"	±2% F.S		
BF3015P	250 ~ 2500	7 ~ 70	≤650	1"	±2% F.S		
BF3016P	300 ~ 3000	9 ~ 90	≤650	11⁄2"	±2% F.S		
BF3017P	350 ~ 3500	10 ~ 100	≤650	11⁄2"	±2% F.S		
BF3018P	450 ~ 4500	12 ~ 120	≤650	11⁄2"	±2% F.S		
BF3019P	450 ~ 4500	13 ~ 130	≤650	1½"	±2% F.S		
BF3020P	500 ~ 5000	14 ~ 140	≤650	11⁄2"	±2% F.S		
BF3021P	650 ~ 6500	18 ~ 180	≤650	2"	±2% F.S		
BF3022P	700 ~ 7000		≤650	2"	±2% F.S		
BF3023P	800 ~ 8000		≤650	2"	±2% F.S		
BF3024P	900 ~ 9000		≤650	21⁄2"	±2% F.S		
BF3025P	1000 ~ 10000		≤650	21⁄2"	±2% F.S		

NOTE.

 The accuracy ±5% F.S for tube BF300a/b and BF3001(P)~BF3003(P). The accuracy ±2% F.S for tube BF3004~BF3037 and BF3004P~BF3025P; option ±1.6% F.S on request.

2. Performance Technical Data are effective with date of issue and are subject to change without prior notice.

Damping Mechanical (Option Function)



BF300 Ordering Information

BF300	Code	Туре								Code	Conne	ection S	ize						
	G		ing Only									3SP (Female) 4N ¹ /4"NPT (Female)				emale)			
	GS		ing + Sv							4B 2B	½"BSP (Female) 2 ¾"BSP (Female) 6 ¾"BSP (Female) 6 ¾"BSP (Female) 10					· _ · _ · _ ·			
	GT		-		no alarm sv	vitch av	/ailable	ے)		6B									
SIL2 ertified	GTA		-						ch available)										
					+ HART (n					10B									
	GTH		Alarm	luicating			I SWILCI	uie)	2F 4F										
												1/2" Flange							
		0		t Alarm		arm Switch C2 Two Inductive Alarm Switches					34" Flange								
		C1									OF 1" Flange								
		M1		icro Swit						12F 1 ¹ / ₂ " Flange									
		R1		eed Swite					14F	20F 2" Flange									
			Code		ing Protection / Case Type / Material												20F		
			A1		Rectangle I					22F	21⁄2"	2½" Flange							
			A2		Round Scre				-	30F	3" Fla	ange							
			B1	IP68 /	Round Bay	onet Ri	ng Type	e / SS3	16(indicating only)	40F	4" Fla	ange							
			B2	IP68 /	Round Scre	ew Tight	t Type /	/ \$\$316	5	50F	5" Fla	ange							
			(Ex. Certificate on Housing only) / Aluminum alloy Class I, Groups B, C & D; Class II, Groups E, F & G;						60F	6" Fla	" Flange								
			С	NEMA		ιαD;	Class	II, Grou	ρς Ε, Γαις;		Code Transmitter Type, 4				pe, 4~2	~20mA			
			D				Certifica	ation) / .	Aluminum alloy		G General Type								
					d IIB + H2 T6 Gb						0	Witho	out Tr	ransr	mitter	·			
			D1		an Explosion Proof Certification) / SS316 IB + H2 T6 Gb De Union ATEX Certification)/ Aluminum alloy IIB + H2 T6 Gb 20°C to +60°C							Code	e Fl	uid					
) Oil (L) Liquid (S) Steam			
			х	11 2 G										ode	-				
														S		tandard Range			
			G			Explosion Proof Certification) / Aluminum alloy + H2 T6 Gb									Please direct fill out the flow rar in the order code.				
				Code		Body & Wetted Parts Material SS316, Standard B SS316L										Display			
				Α	SS316, S									DO	With LCD Display IP66, for A1 case only				
				С	SS316+F	SS316+PTFE Lining (only PVDF float available)										With LCD Display			
				0	Option										D		Explosion Proof, (assemble with D-1000)		
					Code F										NOT				
					(A) SS32	16 (B) S	SS316	L (C) P\	/DF (0) Option						N	Witho	ut		
						Code	Conne	ection R	ating							Code	Damp	er	
						0 Thread Connection									D	With			
						5	0 JIS 10K 0 JIS 20K 5 ANSI 150#									Ν	Witho	ut	
						10											Code	Conduit	
						20											N	Without	
						15											1	½"NPT(F)	
						30											2	¾"NPT(F)	
						60 ANSI 600#					CE Mark Request :								
					90 ANSI 900# T Other:					If stamp					stamp tl	<i>Request :</i> the CE2810 mark is necessary,			
														ple	ase cor	isult wi	th the m	anufacturer.	
¥	¥	¥	¥	¥	¥	+				¥	¥	ŧ		¥	¥	¥	¥		
BF300									+										
OTE:																			
Custom					upon reque				e Condition:									Display:	
					d service co to 886-7-8			Fluid n	ame:									D-1000 Seri	

Special Instruction, if any:

Fluid name:		
Sp. Gr. (Der	nsity):	
Full Scale:		



01Jan2023

054