



HIGH PRESSURE TANK GAUGES

DIGITAL COUNTER TYPE / 2- POINTER DIAL INDICATING TYPE

515 516

FEATURES

- DIAL DISPLAY BI-COLOR DIAL & BOTH POINTER DISPLAY
- LESS THAN $\pm 4\text{mm}$ MEASURING ACCURACY
- THE INDICATOR IS COMPLETELY ISOLATED FROM THE GAS / VAPOR WHICH ARE HIGH SAFETY STRUCTURE
- WITH A HANDLE WHEEL & LOCK DEVICE FOR FLOAT CHECK TO HOIST FLOAT AT FIELD SITE
- CONE ROOF / TOP MOUNTING ARE AVAILABLE
- ALARM SETTER / TRANSMITTER CAN BE ADDED



SPECIFICATIONS FOR GAUGES HEAD

ITEMS	SPECIFICATIONS	
	515	516
MODEL NUMBER	515	516
GAUGEHEAD STRUCTURE	Pressure-resistant bulkhead comes with one set of magnetic measuring coupling	
INDICATION	Digital counter for metre display and vernier dial for mm measurement.	Both pointer and bi-color dial with metre unit for outside scale and mm scale inside.
METERING RANGE	0~6M, 0~12M, 0~18M, 0~24M, 0~30M	0~5M, 0~10M, 0~15M, 0~20M, 0~30M
DISPLAY RESOLUTION	3 digits (0~99.9M) and 2 mm scale divided for vernier	1 mm divided
CONNECTION OF GAUGE HEAD	1½" ANSI 150lb Flange or special specified	
ELECTRIC HOUSING (OPTIONAL)	Assembled in the back cover of gauge head / Exd IIC T6, IP67	
FLOAT HOISTING DEVICE	With a handle wheel / lock device (optional) for float check	
INDICATION ACCURACY	Less than $\pm 4\text{mm}$ (at S.G. 1.0)	
OPERATING PRESSURE	$\leq 2.0\text{ MPa}$ (Standard) or special specified	
LIQUID TEMPERATURE	$-45\sim+70^\circ\text{C}$	
LIQUID DENSITY	$\geq 0.5\text{ g/cm}^3$	
LIQUID VISCOSITY	Max.600 cPs without sticking / crystallization	
GAUGE SUPPORT	With a bracket used for side supporting (Option)	
OPTIONAL DEVICES	Shut-off Valve / Transmitter / Alarm Device (Alarm Setters)	

LEVEL 5

314 ALARM DEVICE (OPTIONAL)

■ SPECIFICATIONS	
CONTACT FORM	SPDT / DPDT (Micro switch)
CONTACT RATING	AC 125V 5A / 250V 3A (St'd)
ALARM POINTS	Max. 4 points
ALARM SETTING	Adjustable at field site
SETTING RANGE	0~100% (Measuring range)
LATCHING RANGE	25% \pm 2% (St'd) (Measuring range)
DETECTING ACCURACY	$\pm 5\%$ F.S.
CABLE ENTRY	½"NPT(F)
AMBIENT TEMP.	-10 to 80C & 90%RH max.
ELECTRICAL PROTECTION	Weather-proof , IP 67 or options
HOUSING MATERIAL	Low copper aluminum alloy with polyester epoxy painted or 316 SS

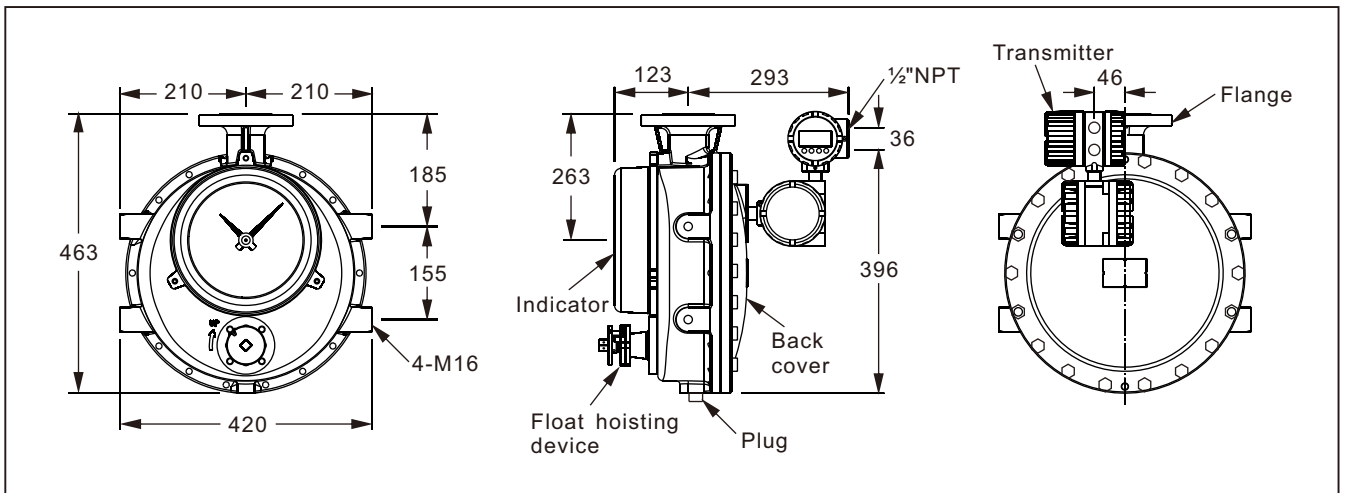
Featuring eccentric cam and element of micro switch , this alarm device can be combined with tank gauges for transmitting dry contact output signals , liquid level alarm monitoring or control purposes. (Please refer to the other catalogue for more details .)



MODEL SELECTIONS

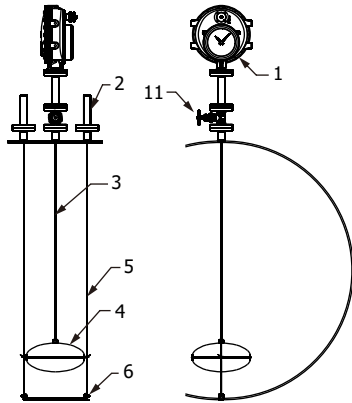
ITEMS	CODE	SPECIFICATIONS						
① MODEL	515	HIGH PRESSURE TANK GAUGE FOR DIGITAL COUNTER DISPLAY TYPE						
	516	HIGH PRESSURE TANK GAUGE FOR BOTH POINTER DIAL INDICATING TYPE						
② OPERATING PRESSURE RATING	A	≤1.0 MPa	B		≤1.6 MPa			
	C	≤2.0 MPa	D		To be specified			
③ MOUNTING CONFIGURATION (See page 3)	-1	Top mounting / Roof reading						
	-2	Tank side reading (90° Guide SHEAVE provided)						
	-3	Tank side reading for spherical tank used						
	-4	To be specified						
④ MATERIALS	CODE	GAUGE HEAD	FLOAT & TAPE	GUIDE WIRE	BOTTOM ANCHOR	SHEAVE ELBOW 90° / 135°	TOP ANCHOR	
	0	304SS	304SS	304SS	304SS	304SS	304SS	
	1	304SS	316SS	316SS	316SS	304SS	304SS	
	2	316SS	316SS	316SS	316SS	316SS	316SS	
	3	To be specified						
⑤ CONNECTION OF GAUGEHEAD	0	1½" ANSI 150LB Flange						
	1	1½" ANSI 300LB Flange						
	2	To be specified						
⑥ CONNECTION OF SHEAVE ELBOW / TOP ANCHOR	-A	1½" ANSI 150LB Flange						
	-B	1½" ANSI 300LB Flange						
	-C	To be specified						
⑦ HOIST DEVICE OF FLOAT CHECK	A	Handle wheel with a socket wrench						
	B	Handle wheel with a socket wrench and lock device						
	C	To be specified						
⑧ TRANSMITTER (For optional)	A	Not required						
	B	4~20mA DC , Traditional type , model 315						
	C	4~20mA DC+HART Protocol , smart type , model 320						
	D	4~20mA DC with LCD display and 10 steps calculation						
	E	To be specified						
⑨ ALARM DEVICE (For optional)	A	Not required						
	B	With non-display alarm setter of model 367A for mounting on the other site or panel						
	C	With LED display alarm setter of model 367B for mounting on the other site or panel						
	D	With alarm device of 314 series for micro switch type						
	E	To be specified						
⑩ METERING RANGE (Maximum)	CODE	FOR 515			CDOE	FOR 516		
	-06	6 metres	-24	24 metres	-05	5 metres	-20	20 metres
	-12	12 metres	-30	30 metres	-10	10 metres	-25	25 metres
	-18	18 metres	-xx	To be specified	-15	15 metres	-xx	To be specified
⑪ PROVIDED COMPONENTS	A	Standard provided parts (See page 3)						
	B	To be specified						
⑫ EXTRA TREATMENT	/A	Not required						
	/B	Special finished						
	/C	To be specified						

DIMENSIONS (m/m)

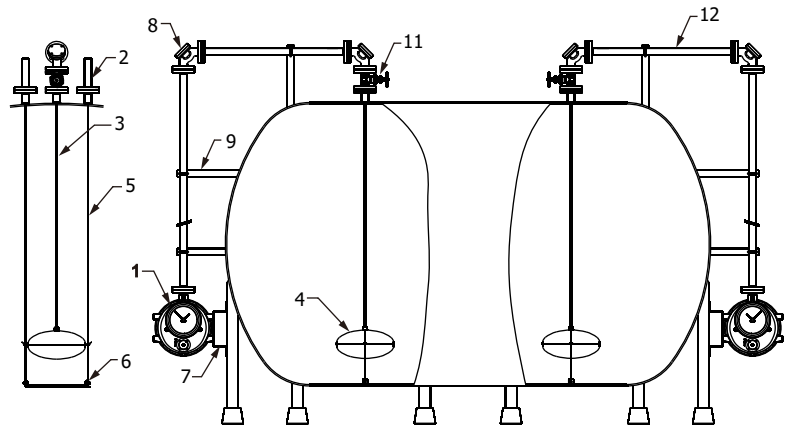


FLOAT STYLE / MOUNTING CONFIGURATION

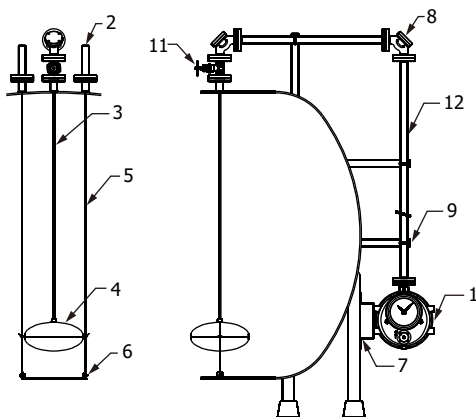
- **CONFIGURATION CODE-1**
Top mounting / Roof reading
 Standard provided parts: 1/2/3/4/5



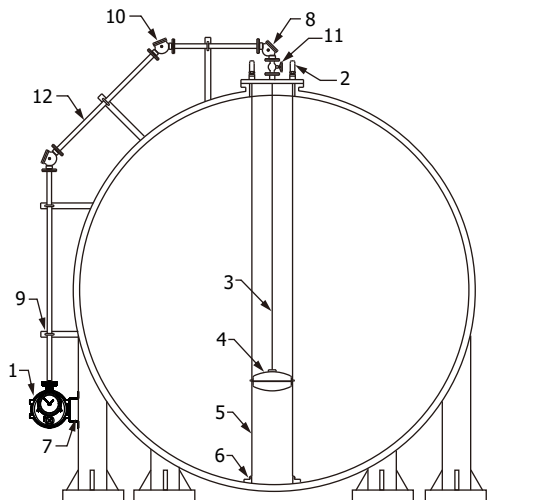
- **CONFIGURATION CODE-2**
Tank side reading / Redundant installation
 Standard provided parts: 1/2/3/4/5/8



- **CONFIGURATION CODE-2**
Tank side reading
 Standard provided parts: 1/2/3/4/5/8



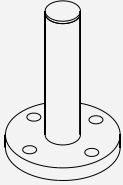
- **CONFIGURATION CODE-3**
Tank side reading
 Standard provided parts: 1/2/3/4/5/8/10



SYMBOL	1	GAUGE HEAD	2	TOP ANCHOR	3	MEASURING TAPE	4	FLOAT
		5	GUIDE WIRE	6	BOTTOM ANCHOR	7	GAUGE SUPPORT	8
	9	SUPPORT	10	135° SHEAVE ELBOW	11	SHUT OFF VALVE	12	GUIDE PIPE

COMPONENTS

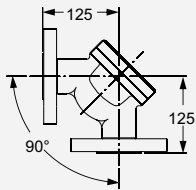
TOP ANCHOR

	P / N	CONNECTION	MATERIAL	OPERATING PRESSURE
	AE3-3B	1½" ANSI 150lb RF	304SS	≤ 1.0MPa
	AE3-3C	1½" ANSI 150lb RF	316SS	
	AE3-3D	1½" ANSI 300lb RF	304SS	≤ 2.0MPa
	AE3-3E	1½" ANSI 300lb RF	316SS	
	AE3-3S	To be specified		

MEASURING TAPE / WIRE

P / N	STYLE	MATERIAL
AE1-1L	TAPE	304SS
AE1-1R	TAPE	316SS
AE1-1M	WIRE	304SS
AE1-1B	WIRE	316SS
AE1-1S	To be specified	

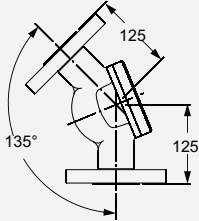
SHEAVE ELBOW 90°

	P / N	CONNECTION	MATERIAL	OPERATING PRESSURE
	AE5-2B	1½" ANSI 150lb RFSF	304SS	≤ 1.0MPa
	AE5-2C	1½" ANSI 150lb RFSF	316SS	
	AE5-2D	1½" ANSI 300lb RFSF	304SS	≤ 2.0MPa
	AE5-2E	1½" ANSI 300lb RFSF	316SS	
	AE5-2S	To be specified		

GUIDE WIRE

P / N	DIAMETER	MATERIAL
AE3-1L	Ø 3 mm	304SS
AE3-1R	Ø 3 mm	316SS
AE3-1M	Ø 4 mm	304SS
AE3-1B	Ø 4 mm	316SS
AE3-1S	To be specified	

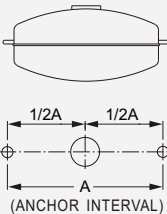
SHEAVE ELBOW 135°

	P / N	CONNECTION	MATERIAL	OPERATING PRESSURE
	AE5-3L	1½" ANSI 150lb RFSF	304SS	≤ 1.0MPa
	AE5-3R	1½" ANSI 150lb RFSF	316SS	
	AE5-3M	1½" ANSI 300lb RFSF	304SS	≤ 2.0MPa
	AE5-3B	1½" ANSI 300lb RFSF	316SS	
	AE5-3S	To be specified		

PULLEY OF ELBOW

P / N	MATERIAL
AE5-9A	POM
AE5-9B	PVDF
AE5-9C	ALUMINUM
AE5-9D	304SS
AE5-9E	316SS
AE5-9F	To be specified

FLOAT

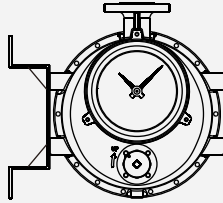
	P / N	FLOAT DIAMETER	MATERIAL	OPERATING PRESSURE
	AE2-3L	Ø 400 mm	304SS	≤ 1.0MPa
	AE2-3R	Ø 400 mm	316SS	
	AE2-3S	To be specified		
	AE2-4L	Ø 400 mm	304SS	≤ 1.6MPa
	AE2-4R	Ø 400 mm	316SS	
	AE2-4S	To be specified		
	AE2-5L	Ø 400 mm	304SS	≤ 2.0MPa
AE2-5R	Ø 400 mm	316SS		
AE2-5S	To be specified			

FLOAT DIAMETER **A**
INTERVAL

Ø 400 mm 440 mm
 Ø 300 mm 330 mm

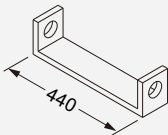
GAUGE SUPPORT & ASSEMBLY DIMENSIONS

■ 515 / 516□-□□1

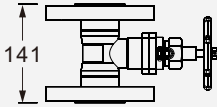


P/N : AE4H-2RR (304SS)
 AE4H-2RRL (316SS)
 AE4H-2RRS (To be specified)

BOTTOM ANCHOR

	P / N	TYPE	MATERIAL
	AE3H-2L	L-ANCHOR	304SS
	AE3H-2R	L-ANCHOR	316SS
	AE3-2S	To be specified	

SHUT-OFF VALVE

	P / N	CONNECTION	MATERIAL	OPERATING PRESSURE
	AE5-1L	1½" ANSI 150lb RF	304SS	≤ 1.0MPa
	AE5-1R	1½" ANSI 150lb RF	316SS	
	AE5-1M	1½" JIS 10K RF	304SS	
	AE5-1B	1½" JIS 10K RF	316SS	≤ 2.0MPa
	AE5-1C	1½" ANSI 300lb RFSF	304SS	
	AE5-1D	1½" ANSI 300lb RFSF	316SS	
	AE5-1S	To be specified		

The specifications are subject to change without prior notice.

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