LIQUID LEVEL GAUGE

SPPB- Reflex Type SPPB- Transparent Type SPPB- Large Chamber Type



R Series

NEW-FLOW glass level gauge are designed in wide range including R series, T series, B series and illuminator type. Which meet various pressure, temperature for application by customer.

Approvals:

Feature

- High Quality
- Low Cost
- Material: Carbon steel, SS304, SS316 are available
- The special materials are available by requested









Standard Type Valve

Jacket Type Valve

Offset Type Valve



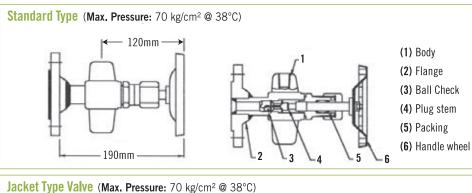
ILLUMINATOR Type (only for transparent type)

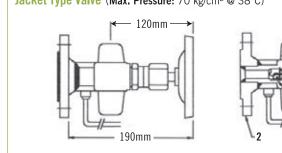
illuminator Protection: EEx ia II C T4/T5/T6 21 special LED's provide dazzle free illumination. Electrical Data and Components; General:

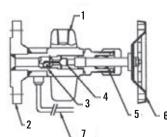
Supply: AC or DCOperating Voltage: 24V

T Series

- Power Consumption: Max. 2W
- Temperature Resistant: -10°C to +90°C

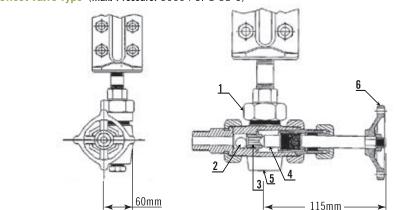






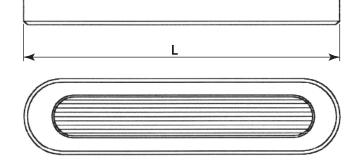
- **(1)** Body
- **(2)** Flange
- (3) Ball Check
- (4) Plug stem
- (5) Packing
- (6) Handle wheel
- (7) Jacket tube

Offset Valve Type (Max. Pressure: 3000 PSI @ 38°C)



- (1) Unit-Nut
- (2) Ball Check
- **(3)** Seat
- (3) Seat
- **(4)** Stem
- (**5)** ½"NPT
- (6) Handle Wheel

Glass for Reflex type



Dimensions-mm

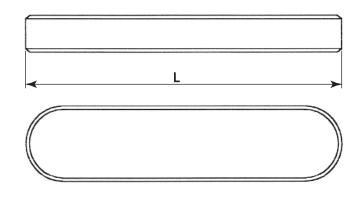
III III III III III M M M M M M M M M M M M В

M NI M NI NI M NI M NI NI M NI M NI NI

В

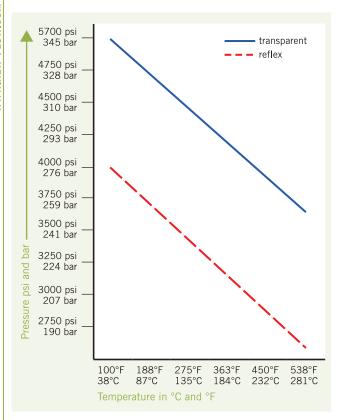
No.	L	В	S			
3	165	34	17			
4	190	34	17			
5	220	34	17			
6	250	34	17			
7	280	34	17			
7 ½	300	34	17			
8	320	34	17			
9	340	34	17			
10	400	34	17			

Glass for Transparent type

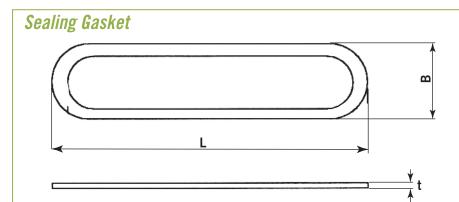


Dimensions-mm

No.	L	В	S									
3	165	34	17									
4	190	34	17									
5	220	34	17									
6	250	34	17									
7	280	34	17									
7 ½	300	34	17									
8	320	34	17									
9	340	34	17									
10	400	34	17									

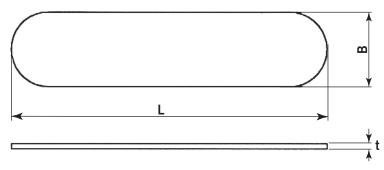


Application Conditions	Perm	mum issible ssure	Maximum Permissible Temperature			
	Bar	Psi	°C	°F		
Saturated steam or hot water in direct contact with reflex or transparent sight glasses.	35	500	243	470		
Saturated steam or hot water in contact with transparent sight glasses protected with mica.	103	1500	320	608		
Non-corrosive, non-steam service and no technically significant glass attack, with reflex or transparent glasses.	280	4000	38	100		
Transparent sight glasses in contact with medias with no technically significant glass attack.	345	5000	38	100		
High pressure transparent sight glasses in special armatures (gauges).	414	6000	38	100		



Dimensions-mm												
No.	L	В	t									
3	165	34	≒1.5~1.8									
4	190	34	≒1.5~1.8									
5	220	34	=1.5~1.8 =1.5~1.8									
6	250	34										
7	280	34	≒1.5~1.8									
7 ½	300	34	≒1.5~1.8									
8	320	34	=1.5~1.8									
9	340	34	=1.5~1.8									
10	400	34	=1.5~1.8									

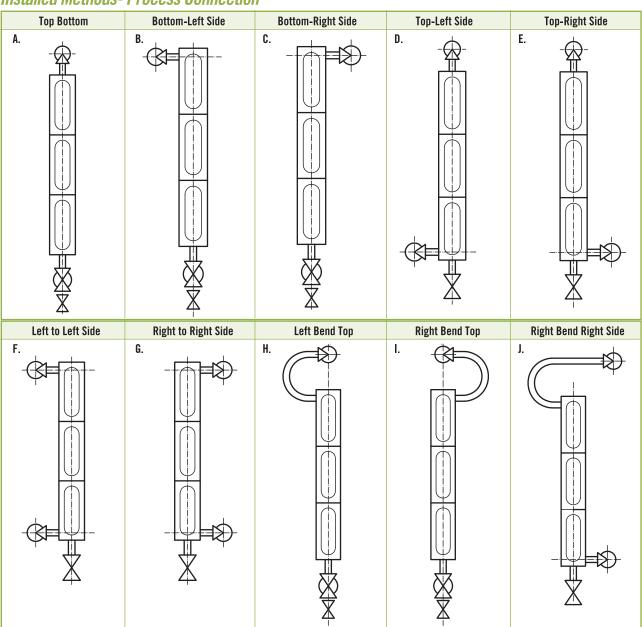
Mica Shields



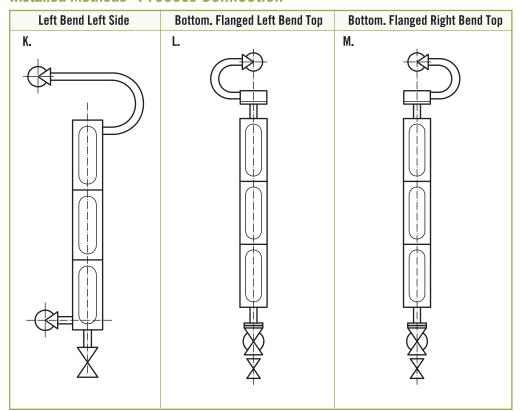
Dimensions-mm

No.	L	В	t				
3	165	34	≒ 0.2				
4	190	34	≒ 0 . 2				
5	220	220 34 ≒0					
6	250	34	≒ 0.2				
7	280	34	≒ 0.2				
7 ½	300	34	≒ 0 . 2				
8	320	34	⇒ 0.2				
9	340	34	≒ 0 . 2				
10	400	34	⇒ 0.2				

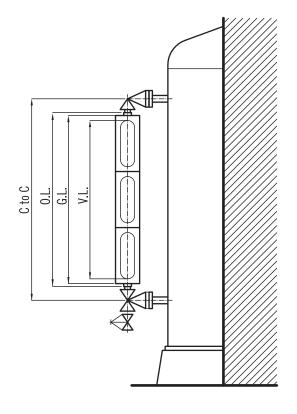
Installed Methods- Process Connection



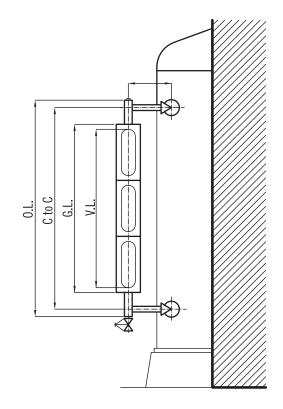
Installed Methods- Process Connection



Sample Hook-Up Drawing



Top-Bottom Hook-Up



Right to Right Side Hook-Up

• R Series — Reflex Type Liquid Level Gauge

The Reflex type level gauge is constructed by a solid one-piece chamber made from bar stack with ductile steel covers, hard glass, steel bolts and nuts. The material are available with carbon steel, SS304, SS316 and SS316L. The special material are available by requested. The level gauge provide from one up to five section. As the reflex level gauge is used, liquid section appears black color and steam or gas section appears with white color.

The R Series level gauge is designed to suit for the euipment in the chemical plant. Power plant and other industries to measure the liquid level. NEW-FLOW provides - R (standard type), RJ (jacket type) and RN (Non-frosting type) for customer to application by requested.

Technical Data

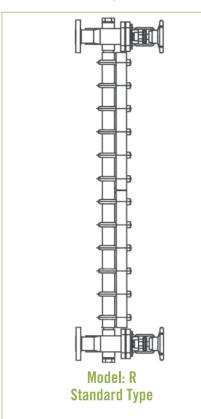
Center to Center length: By customer requested Connection Vessel: 1/2" or 1/4" female or male Process Rating: Thread or Flange end available

Covers: Ductile, SS304 and SS316 are available by requested

Sight Glass: Borosilicate glass

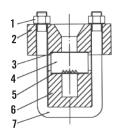
Gasket: High quality material are made by requested

U-Bolt and Nuts: Alloy steel, SS304 and SS316 are available

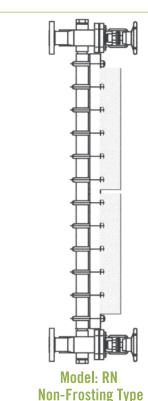


- •Temperature Range: 2°C ~ 280°C
- Pressure Range: up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.
- •With Gauge Valve: Union nut or Nipple between gauge valve and vessel body.
- Process Connection: Thread or Flange according to JIS, ANSI and DN specification.

Parts List



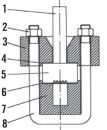
- 1. Nut for U-bolt
- 2. Cover
- 3. Packing
- 4. Gauge Glass 5. Packing
- 6. Body
- 7. U-bolt



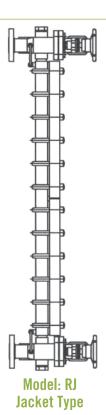
Using in low temperature application to prevent the frost build up does not obscure reading of the liquid level.

- •Temperature Range: -10°C ~ -100°C
- Pressure Range: up to 20 kg/cm²

Parts List



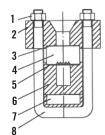
- 1. Plastic Extension Plate
- 2. Nut for U-bolt
- 3. Gauge Cover
- 4. Gasket
- 5. Gauge Glass
- 6. Gasket
- 7. Gauge Body
- 8. U-bolt



Jacket type— Heating or Cooling This type is built with a jacket pass through steam or cooling water into the jacket. It can keep temperature in the vessel to avoid liquid crystallization or vaporization. So the liquid can be indicated dearly.

- •Temperature Range: 2°C ~ 280°C
- Pressure Range: up to 40 kg/cm² (standard): optoin up to 70 kg/cm² available.

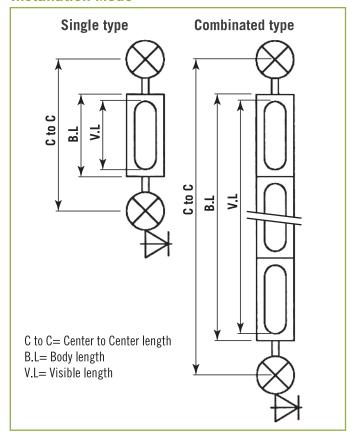
Parts List



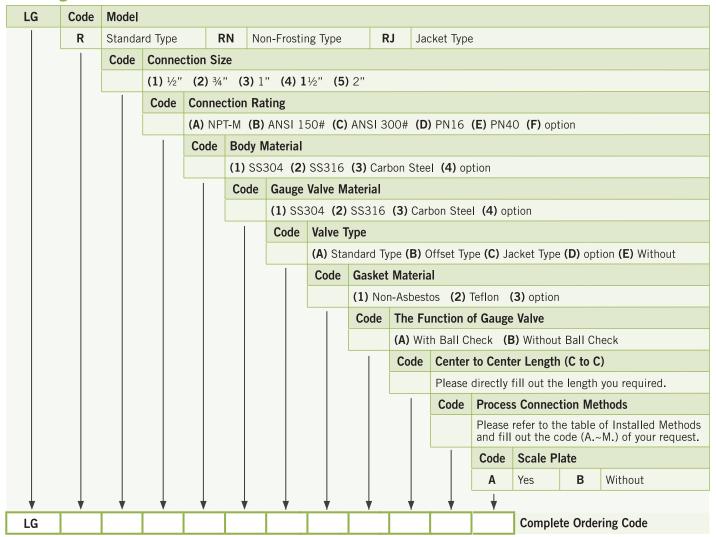
- 1. Nut for U-bolt
- 2. Cover
- 3. Packing
- 4. Gauge Glass
- 5. Packing
- 6. Body
- 7. Jacket
- 8. U-bolt



• R Series — Reflex Type Liquid Level Gauge Installation Mode



Ordering Information



• T Series — Transparent Type Liquid Level Gauge

The Transparent type level gauge is constructed by a solid one-piece chamber made from bar stack with ductile steel covers, hard glass, steel bolts and nuts. The material are available with carbon steel, SS304, SS316 and SS316L. The special material are available by requested. The level gauge provide from one up to five section. As the transparent level gauge is used, liquid section appears black color and steam or gas section appears with white color. The T Series level gauge is designed to suit for the euipment in the chemical plant. Power plant and other industries to measure the liquid level. NEW-FLOW provides - T (standard type), TJ (jacket type) and TN (Non-frosting type) for customer to application by requested.

Technical Data

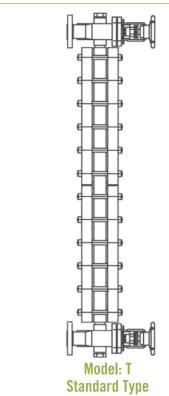
Center to Center length: By customer requested Connection Vessel: 1/2" or 1/4" female or male Process Rating: Thread or Flange end available

Covers: Ductile, SS304 and SS316 are available by requested

Sight Glass: Borosilicate glass

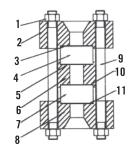
Gasket: High quality material are made by requested

U-Bolt and Nuts: Alloy steel, SS304 and SS316 are available

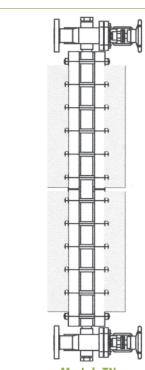


- •Temperature Range: 2°C ~ 280°C
- Pressure Range: up to 40 kg/cm² (standard): optoin up to 70 kg/cm² available.
- •Without Gauge Valve: 1/2" or 3/4"NPT
- •With Gauge Valve: Union nut or Nipple between gauge valve and vessel body.
- Process Connection: Thread or Flange according to JIS, ANSI and DN specification.
- •Transparent type is not suitable for colorless liquid.

Parts List



- 1. Nut for U-bolt
- 2. Cover
- 3. Packing
- 4. Gauge Glass
- 5. Packing
- 6. Body
- 7. Gauge Glass
- 8. Cover
- 9. Bolt
- 10. Packing
- 11. Packing

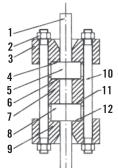


Model: TN **Non-Frosting Type**

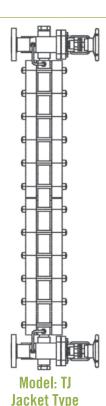
Using in low temperature application to prevent the frost build up does not obscure reading of the liquid level.

- •Temperature Range: -10°C ~ -100°C
- Pressure Range: up to 20 kg/cm²

Parts List



- 1. Plastic **Extension Plate**
- 2. Nut for U-bolt
- 3. Gauge Cover
- 4. Gasket
- 5. Gauge Glass
- **6.** Packing
- 7. Body
- 8. Gauge Glass
- 9. Cover
- 10. U-bolt 11. Packing
- 12. Packing i

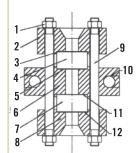


Jacket type— Heating or Cooling This type is built with a jacket pass through steam or cooling water into the jacket. It can keep temperature in the

vessel to avoid liquid crystallization or vaporization. So the liquid can be indicated dearly.

- •Temperature Range: -10°C ~ 280°C
- Pressure Range: up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.

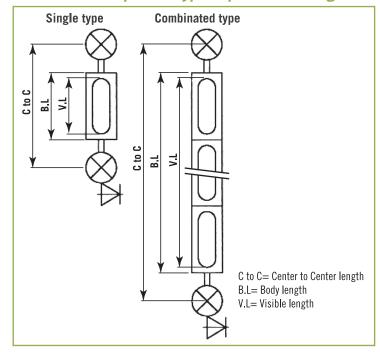
Parts List



- 1. Nut for U-bolt
- 2. Cover
- Packing
- 4. Gauge Glass
- 5. Packing
- 6. Body
- 7. Gauge Glass
- 8. Cover 9. Bolt
- **10.** Jacket Pipe
- 11 Packing 12. Packing



• T Series — Transparent Type Liquid Level Gauge Installation Mode



Ordering Information

LG	Code	Model																
	Т	Standa	rd Type	1	ΓΝ Ν	Ion-Frost	ing Ty	ре	-	ΓJ	Jack	et Typ	е					
		Code	Connec	ction Si	ze													
			(1) ½"	(2) 3/4	" (3)	1" (4)	1 ½"	(5)	2"									
			Code	Code Connection Rating														
				(A) NF	PT-M (E	3) ANSI	150#	(C)	ANSI 3	300#	(D) F	PN16	(E) PN4	40 (F) op	otion			
				Code	Body	Materia	l											
				(1) SS304 (2) SS316 (3) Carbon Steel (4) option														
					Code				aterial									
										(3)	Carbo	n Stee	el (4) o	ption				
						Code		ve T	-		_,			–				
												set Ty	pe (C) J	acket Typ	oe (D) op	tion	(E) Wit	hout
							Co	de	Gaske			(2)	T. (L	(2)				
									Code				of Gaug	(3) optio	n			
									Code					B) Withou	ut Ball C	hacl		
								Į	1	Co				ter Lengt			`	
														fill out t			ı reauir	ed.
												Code	1	s Conne				
																		Methods
												1					-	r request.
													Code	With	B			1/T5/T6)
										A With B Without Code illuminator Power Supply								
														0	Withou		1	24VDC
														2	110VA	2	3	220VAC
															Code		ale Plat	e
															Α	Yes	i	
															В	Wit	hout	
+	V	V	+	—	+	+	•	,	V	, ,	/	V	+	+	\			
LG																Con	nplete O	rdering Code

• B Series — Large Chamber Type Liquid Level Gauge

The Large Chamber level gauge is constructed by a big chamber made with ductile steel covers, hard glass, steel bolts and nuts. The large chamber type level gauge is specifically designed to provide an easy observation for the level of viscose liquid and provide an easy flushing to vessel of the level gauge when it's on requested.

The B series can provide end connection up to 2" thread or flange, according to the specification of JIS, ANSI, DIN all materials in the B series are available with carbon steel, \$\$304, \$\$316 and \$\$\$5316L. The special materials are available by requested.

Technical Data

Center to Center length: By customer requested

Connection Vessel: Up to 2" pipe size

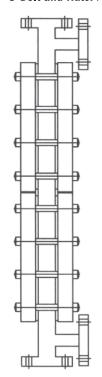
Process Rating: Thread or Flange end available

Covers: Ductile, SS304 and SS316 are available by requested

Sight Glass: Borosilicate glass

Gasket: High quality material are made by requested

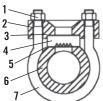
U-Bolt and Nuts: Alloy steel, SS304 and SS316 are available



Model: BR, Standard Type

- •Temperature Range: 2°C ~ 300°C
- •Pressure Range: up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.
- •Process Connection: ½" up to 2"

Parts List

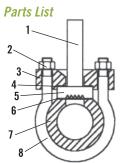


- 1. Nut for U-bolt
- 7. U-bolt 2. Gauge Cover
- 3. Packing
- 4. Gauge Glass
- 5. Packing

Model: BRN, Non-Frosting Type

Using in low temperature application toprevent the frost build up does not obscure reading of the liquid level.

- •Temperature Range: -10° C $\sim -100^{\circ}$ C
- Pressure Range: up to 20 kg/cm²;
- •Process Connection: ½" up to 2"



- 1. Plastic Extension Plate
- 2. Nut for U-bolt
- 3. Gauge Cover
- 4. Gasket
- 6. Gasket 7. Gauge Body
- 8. U-bolt

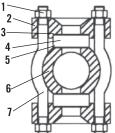
6. Body

- 5. Gauge Glass

Model: BT, Standard Type

- •Temperature Range: 2°C ~ 300°C
- Pressure Range: up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.
- •Process Connection: ½" up to 2"

Parts List

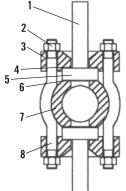


- 1. Nut for U-bolt
- 2. Gauge Cover
- 3. Gasket
- 4. Gauge Glass
- 5. Gasket
- **6.** Gauge Body
- 7. Bolt

Model: BTN, Non-Frosting Type

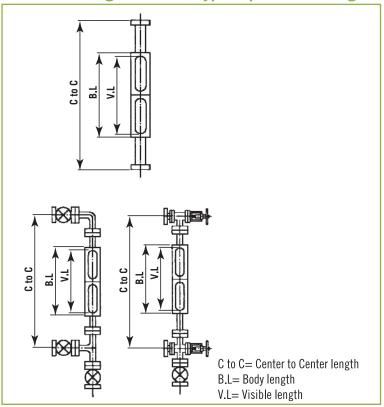
- •Temperature Range: -10°C ~ 100°C
- Pressure Range: up to 20 kg/cm²;
- •Process Connection: ½" up to 2"

Parts List



- 1. Plastic Extension Plate
- 2. Nut for U-bolt
- 3. Gauge Cover
- 4. Gasket
- 5. Gauge Glass
- 6. Gasket
 - 7. Gauge Body
 - 8. Bolt

• B Series — Large Chamber Type Liquid Level Gauge Installation Mode



Ordering Information

UI UUI II	ig illit	ıı ıllatı	IUII														
LG	Code	Model															
	BR	Reflex,	Standar	dard Type BRN Reflex, Non-Frosting Type													
	ВТ	Transpa	arent, St	andard 7	уре	BTN	BTN Transparent, Non-Frosting Type										
		Code	Connec	ction Siz	ze												
			(1) ½"	ANSI 1	50# (2) ¾" AN	ISI 15	50#	(3) 1'	' ANSI 1	.50# (4	4) 1" JIS	6 10K (5) opt	tion		
			Code	Body N	/laterial												
				(1) SS304 (2) SS316 (3) Carbon Steel (4) option													
				Code	Gauge	Valve N	lateria	al									
					(1) SS:	.) SS304 (2) SS316 (3) Carbon Steel (4) option											
					Code Valve Type												
						(A) Ba	II Valv	/e (B) Glob	oe Valve	(C) Op	tion (D) Withou	t			
						Code	Gasl	ket M	lateria	ıI							
							(1)	Non-A	sbest	os (2)	Teflon	(3) optio	n				
							Cod	le T	he Fu	nction o	of Gauge	Valve					
								(/	4) Wit	h Ball C	heck (E	3) Withou	ut Ball C	heck			
								(Code	Center	to Cent	er Lengt	th (C to	C)			
										Please	directly	fill out t	he length	ı you ı	require	ed.	
										Code	Proces	s Conne	ction Me	thods	S		
																l Methods r request.	
											Code	illumin	nator (EE	x ia I	I C T4	I/T5/T6)	
											Α	With	В	With	hout		
											Code illuminator Power Supply						
										O Without 1 24VDC							
											2 110VAC 3 220VAC						
											Code Scale Plate						
													Α	Yes		B Without	
₩	+	V	+	+	+	+	V		\	+	V	+	\				
LG														Com	plete (Ordering Code	