ZT15 Pressure Transmitters for Semiconductor Industry

Outline

These are pressure transmitters designed for semiconductor industry, in which pressures are converted into electric signals and transmitted by the sensing element equipped with evaporation coating type semiconductor strain gauge and a built-in electronic circuit. We provide two types of pressure transducers with UC / EP Grade for high-purity gas and BA / GP Grade achieved the cost down of gas piping without impairing the airtightness.

Features

- Highly corrosion-resistant pressure sensors made of Co-Ni alloy or SUS316L are welded directly to the fitting, giving them excellent corrosion resistance, air-tightness, long-term stability and reliability.
- *Please confirm that material in contact with gas is suitable for it.
- •Few dead spaces exist that may cause gas contamination.
- Available in gauge, compound and absolute pressures.
 (For the absolute pressure range, please refer to separate catalogs.)







*1 ZT15-1 , ZT15-2 , ZT15-A , and ZT15-B are non-CE compliant.

List of grade

Cleanliness These pressure transmitters have been assembled, adjusted, inspected and packaged in a clean room, paying special attention for maintaining cleanliness.

Gra	ade	UC (Ultra Clean)	BA (Bright Annealing)	EP (Electro Polishing)	GP (General Purpose)			
	oughness contact	0.18μm Ra Avg. 0.7μm Rz Max.	Approx. Rz 2.5μm	0.18μm Ra Avg. 0.5μm Ra Avg				
Wetted Pressure Sensor Co-Ni alloy				SUS316L				
parts Fitting *2 SUS316L			SUS316L					
Maxi allowable	mum pressure *3	200% of rat	ed pressure	150% of rat	red pressure			
	kage leak rate)	5 x 10 ⁻¹² Pa•n	n ³ /s and under	5 x 10 ⁻¹² Pa•n	n ³ /s and under			
Par	ticle	Zero count for size 0.1μm or greater ————————————————————————————————————		Zero count for size 0.1 µm or greater (In our inspection standard)				
Clea	aning	Ultra clearance (Cleaning)	Degreasing	Ultra clearance (Cleaning)	Degreasing			
	g media *4 mended)	High-purity gas, semiconductor material gas, etc.	Purge gas, exhaust gas, etc.	High-purity gas, semiconductor material gas, etc.	Purge gas, exhaust gas, etc.			

^{*2} For UC Grade, the pressure transmitter can be manufactured in DOUBLE MELT material by request. Please contact us.

^{*3} Allowable maximum pressure is the upper limit of pressure value which may safely be applied to the product and remain in specification once pressure is returned to the rated pressure range with a couple of times overpressurization for about 10 minutes. Effects of continuous overpressure are not guaranteed.

^{*4} Ensure that pressure media is compatible with wetted parts.

^{*}UC / EP Grade rises with double packing (Filled with N₂).

Specification

Item	Description									
Fluid	Process gasses for semiconductor industry									
Pressure range	0 to 0.3, 0.5, 1, 2, 3.5, 5, 10, 20MP -0.1 to 0.3, 0.5, 1, 2MPa	0 to 0.3, 0.5, 1, 2, 3.5, 5, 10, 20MPa -0.1 to 0.3, 0.5, 1, 2MPa								
Fitting shape	Type T Type S	Type T Type S E								
Connection	1/4, 3/8 UJR, VCR, CVC, etc.									
Pressure sensor seal method	Welding type									
Operating temperature	-20 to 70°C (No freezing or condensa	-20 to 70°C (No freezing or condensation)								
Storage temperature	-30 to 80°C (No freezing or condensation)									
Accuracy *1	±1.0%F.S. at 23°C (Standard) or ±0.5%F.S. at 23°C (Option) Howeve	±1.0%F.S. at 23°C (Standard) or ±0.5%F.S. at 23°C (Option) However, 0.5MPa range or greater can be specified								
Temperature coefficient	± 0.1%F.S./°C [Accuracy±1.0%F.S ±0.05%F.S./°C [Accuracy±0.5%F.S									
	Transmission method	2-wire system	3-wire system							
Electrical	Power source	24V DC±10%	24V DC±10% or 12V DC±10%							
characteristics	Output	4 to 20mA DC	1 to 5V DC							
	Load resistance 500Ω maximum 10kΩ minimum									
CE compliance *2	Applicable Standards: EN61326-1: 2013; EN61326-2-3: 2013 *Please use it to connect to the indoor power distribution network which is not affected by the lightning surge voltage and power supply system switching transients.									
Enclosure	Indoor use									
Weight	Approx. 180 g (Excluding cable, varie	es depending on the fitting shape)								

^{*1} Accuracy includes the effects of Linearity, Hysteresis and Repeatability.

Connector and cable

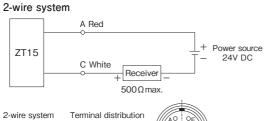
Connector (Plug):

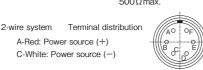
R03-P6M (Manufactured by Tajimi Electronics Co., Ltd.)

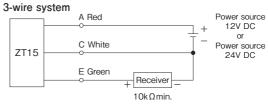
Cable:

	Environmental	Cond	luctor	Cable outer	Minimum bending	
	temperature	Cross-section area (mm²)	Twisted conductors (pcs./mm)	diameter (mm)	radius (mm)	
Heat resistant cable	-20 to 105℃	0.3	12/0.18	φ6.0	25	

Wiring







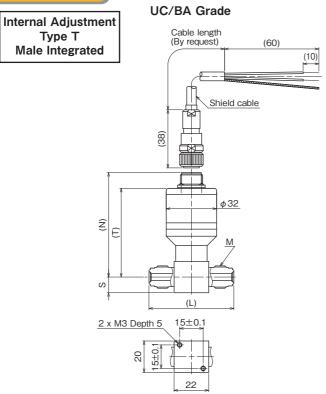
3-wire system Terminal distribution

A-Red: Power source (+)
C-White: Common
E-Green: Output (+)

Caution

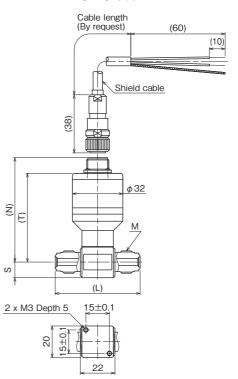
Avoid installing in location where apparatus or atmosphere (excluding process media) could be cause of initiation of ignition or explosion under normal operating condition.

^{*2} ZT15-1 \square , ZT15-2 \square , ZT15-A \square , and ZT15-B \square are non-CE compliant.

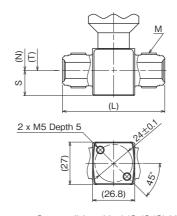


Compatible with 1/4 VCR

EP/GP Grade



Compatible with 1/4 VCR



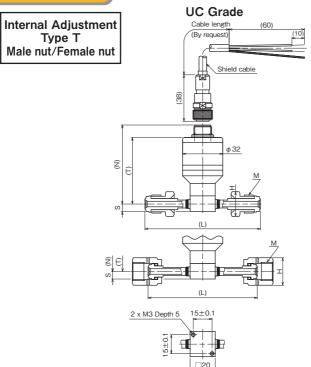
Compatible with 1/2 (3/8) VCR

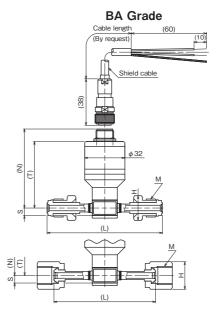
Grade	ade Connection		Screw size M	Dimensions				Model number	
Grade	Connection	DIA.	Screw Size IVI	N	Т	S	L	Woder Humber	
UC	Compatible with VCR Male integrated	1/4	9/16-18UNF	66.5	56.5	10	54	ZT15-136, ZT15-M36	

Grade	Connection	Piping	Corour oizo M		Dimer	nsions		Model number	
Grade	Connection	DIA.	Screw size M	N	Т	S	L	woder number	
ВА	Compatible with VCR Male integrated	1/4	9/16-18UNF	66.5	56.5	10	54	ZT15-13N, ZT15-M3N	

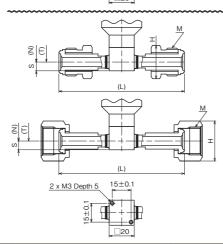
Grade	Connection	Piping	Screw size M		Dimer	Model		
Grade Connection		DIA.	Sciew Size IVI	N	Т	S	L	number
EP	Compatible with VCR Male integrated	1/4	9/16-18UNF	66.5	56.5	10	54	ZT15-M3E
_ CF	Compatible with VCH Male integrated	1/2 (3/8)	7/8-14UNF	70.5	60.5	16	65	ZT15-M4E

Cuada	Connection	Piping	Screw size M		Dimer	Model		
Grade	Connection	DIA.	Screw Size IVI	N	Т	S	L	number
GP	Compatible with VCR Male integrated	1/4	9/16-18UNF	66.5	56.5	10	54	ZT15-M3G





BA Grade doesn't have screw.

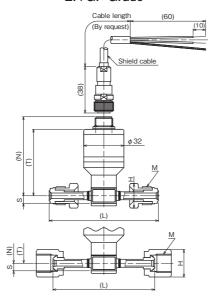


Grade	Connection	Piping	Screw size M			Dir	mensions		Model number
Grade	DIA.		Sciew Size ivi	N	Т	S	Н	L	Woder Humber
	VCR Male nut	1/4	9/16-18UNF	62.5	52.5	6	16 x 18.5 Hex.	86	ZT15-1J6, ZT15-MJ6
	VON Male Hut	3/8	7/8-14UNF	68	58	7	24 x 27.7 Hex.	90.5	ZT15-1K6, ZT15-MK6
	VCR Female nut	1/4	9/16-18UNF	62.5	52.5	6	19 x 21.9 Hex.	80.8	ZT15-1L6, ZT15-ML6
	(Bearings are not included)	3/8	7/8-14UNF	68	58	7	27 x 31.2 Hex.	81.8	ZT15-1M6, ZT15-MM6
	UJR Male nut	1/4	9/16-18UNF	62.5	52.5	6	17 x 19.6 Hex.	87	ZT15-1N6, ZT15-MN6
UC	Oun Male Hut	3/8	7/8-14UNF	68	58	7	23 x 26.6 Hex.	100	ZT15-1P6, ZT15-MP6
00	UJR Female nut	1/4	9/16-18UNF	62.5	52.5	6	19 x 21.9 Hex.	87	ZT15-1Q6, ZT15-MQ6
	(With pure ring)	3/8	7/8-14UNF	68	58	7	26 x 30 Hex.	100	ZT15-1R6, ZT15-MR6
	CVC Male nut	1/4	9/16-18UNF	62.5	52.5	6	15.8 x 18.2 Hex.	86	ZT15-1W6, ZT15-MW6
	CVC Male nut	3/8	7/8-14UNF	68	58	7	23.8 x 27.5 Hex.	90.6	ZT15-1X6, ZT15-MX6
	CVC Female nut	1/4	9/16-18UNF	62.5	52.5	6	19 x 21.9 Hex.	80.8	ZT15-1Y6, ZT15-MY6
	(Bearings are not included)		7/8-14UNF	68	58	7	27 x 31.2 Hex.	82	ZT15-1Z6, ZT15-MZ6

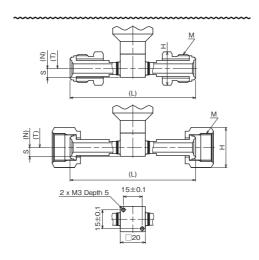
Grade	Piping Screw size M					Dir	nensions		Model number	
Grade	Cornection	DIA.	Screw Size IVI	N	Т	S	Н	L	Woder Humber	
	VCR Male nut						16 x 18.5 Hex.	86	ZT15-1JN, ZT15-MJN	
	VCR Female nut (Bearings are not included)						19 x 21.9 Hex.	80.8	ZT15-1LN, ZT15-MLN	
BA	UJR Male nut	1/4	9/16-18UNF	63	53	6	17 x 19.6 Hex.	92	ZT15-1NN, ZT15-MNN	
DA	UJR Female nut (Without pure ring)	1/4				b	19 x 21.9 Hex.	81	ZT15-1QN, ZT15-MQN	
	CVC Male nut						15.8 x 18.2 Hex.	86	ZT15-1WN, ZT15-MWN	
	CVC Female nut (Bearings are not included)						19 x 21.9 Hex.	80.8	ZT15-1YN, ZT15-MYN	
							19 x 21.9 Hex.	80.8	ZT15-1YN, ZT15-M	

Internal Adjustment Type T Male nut/Female nut

EP/GP Grade



1/4UJR *There is no M3 screw on the piping diameter 1/4.



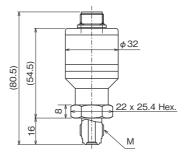
3/8UJR

Grade	Connection	Piping	Screw size M			Model			
Grade	Connection	DIA.	Sciew Size IVI	N	Т	S	Н	L	number
	LLIP Mala put	1/4	9/16-18UNF	63	53	6	17 x 19.6 Hex.	87	ZT15-MNE
EP	UJR Male nut	3/8	7/8-14UNF	68	58	7	23 x 26.6 Hex.	100	ZT15-MPE
	UJR Female nut	1/4	9/16-18UNF	63	53	6	19 x 21.9 Hex.	81	ZT15-MQE
	(Without pure ring)		7/8-14UNF	68	58	7	26 x 30 Hex.	100	ZT15-MRE

Grade	Connection	Piping	Piping Screw size M		Dimensions					
Grade	Corniection	DIA.	Sciew Size IVI	N	Т	S	Н	L	number	
GP	UJR Male nut	1/4	9/16-18UNF	63	53	6	17 x 19.6 Hex.	87	ZT15-MNG	
GF	UJR Female nut (Without pure ring)	1/4	9/10-16UNF	03	55	0	19 x 21.9 Hex.	81	ZT15-MQG	

Internal Adjustment Type S Male Integrated

UC/BA/EP/GP Grade



Compatible with 1/4 VCR

Grade	Connection	Piping DIA.	Screw size M	Model number
UC	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-236, ZT15-N36

Grade	Connection	Piping DIA.	Screw size M	Model number
ВА	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-23N, ZT15-N3N

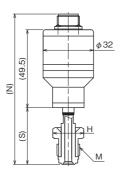
Grade	Connection	Piping DIA.	Screw size M	Model number
EP	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-N3E

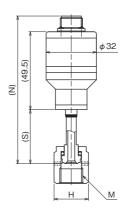
Grade	Connection	Piping DIA.	Screw size M	Model number
GP	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-N3G

Internal Adjustment Type S Male nut/Female nut

UC/BA/EP/GP Grade







Grade	Connection	Piping	Screw size M		Dir	nensions	Model number	
Grade	Connection	DIA.	Screw Size IVI	N	S	Н	Woder Humber	
	VCR Male nut			93.5	34	16 x 18.5 Hex.	ZT15-2J6, ZT15-NJ6	
	VCR Female nut (Bearings are not included)	- 1/4 9/16-18UNF		90.9	31.4	19 x 21.9 Hex.	ZT15-2L6, ZT15-NL6	
UC	UJR Male nut		1/4	0/16 1911NIF	96.5	37	17 x 19.6 Hex.	ZT15-2N6, ZT15-NN6
	UJR Female nut (With pure ring)		9/10-16UNF	94	34.5	19 x 21.9 Hex.	ZT15-2Q6, ZT15-NQ6	
	CVC Male nut			95.5	36	15.8 x 18.2 Hex.	ZT15-2W6, ZT15-NW6	
	CVC Female nut (Bearings are not included)			90.9	31.4	19 x 21.9 Hex.	ZT15-2Y6, ZT15-NY6	

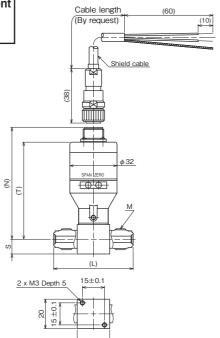
Grade	Connection	Piping	Screw size M		Dir	nensions	Model number
Grade	Connection	DIA.	Screw Size IVI	N	S	Н	Wiodei number
	VCR Male nut			93.5	34	16 x 18.5 Hex.	ZT15-2JN, ZT15-NJN
	VCR Female nut (Bearings are not included)			81.3	21.8	19 x 21.9 Hex.	ZT15-2LN, ZT15-NLN
D.	UJR Male nut		4.4	0/40 401 1015	96.5	37	17 x 19.6 Hex.
BA —	A UJR Female nut (Without pure ring)	1/4	9/16-18UNF	81.2	21.7	19 x 21.9 Hex.	ZT15-2QN, ZT15-NQN
	CVC Male nut			95.5	36	15.8 x 18.2 Hex.	ZT15-2WN, ZT15-NWN
	CVC Female nut (Bearings are not included)			90.9	31.4	19 x 21.9 Hex.	ZT15-2YN, ZT15-NYN

Grade	Connection	Piping	Screw size M		Dir	nensions	Model
Grade	Connection	DIA.	Screw Size IVI	N	S	Н	number
EP	UJR Male nut	1/4	9/16-18UNF	94	34.5	17 x 19.6 Hex.	ZT15-NNE
EP	UJR Female nut (Without pure ring)	1/4	9/ 10-16UNF	91	31.5	19 x 21.9 Hex.	ZT15-NQE

Grade	Connection		Coroux oizo M		Model		
Grade	Connection	DIA.	Screw size M	N	S	Н	number
GP	UJR Male nut	1/4	9/16-18UNF	94	34.5	17 x 19.6 Hex.	ZT15-NNG
GP	UJR Female nut (Without pure ring)	1/4	9/10-16UNF	91	31.5	19 x 21.9 Hex.	ZT15-NQG

External Adjustment Type T Male Integrated

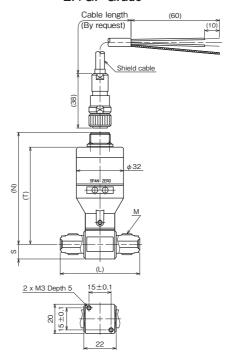
UC/BA Grade



Compatible with 1/4 VCR

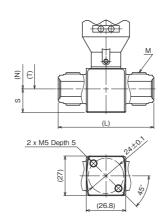
EP/GP Grade

Unit: mm



Compatible with 1/4 VCR

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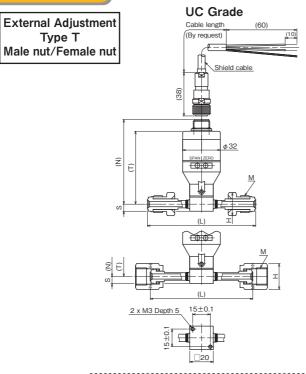
Compatible with 1/2 (3/8) VCR

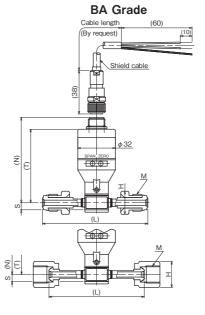
Grade		Connection	Piping	Screw size M		Dimer	nsions		Madal number	
	Grade	Cornection	DIA.	Screw size IVI	N	Т	S	L	Model number	
	UC	Compatible with VCR Male integrated	1/4	9/16-18UNF	76	66	10	54	ZT15-A36, ZT15-C36	

Grade		Connection	Piping	Screw size M		Dimer	nsions		Madal number
	Grade	Connection	DIA.	Screw Size IVI	N	Т	S	L	- Model number
	ВА	Compatible with VCR Male integrated	1/4	9/16-18UNF	76	66	10	54	ZT15-A3N, ZT15-C3N

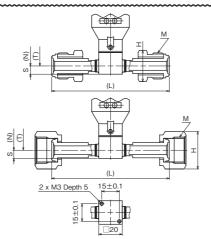
Grade	Connection	Piping	Screw size M		Dimer	Model		
Grade		DIA.	Screw Size IVI	N	Т	S	L	number
EP	Compatible with VCR Male integrated	1/4	9/16-18UNF	76	66	10	54	ZT15-C3E
CF	Compatible with VCh Male Integrated	1/2 (3/8)	7/8-14UNF	80	70	16	65	ZT15-C4E

Grade	Connection	Piping	Screw size M		Dimer	Model		
	Connection	DIA.	Screw Size IVI	N	Т	S	L	number
GP	Compatible with VCR Male integrated	1/4	9/16-18UNF	76	66	10	54	ZT15-C3G





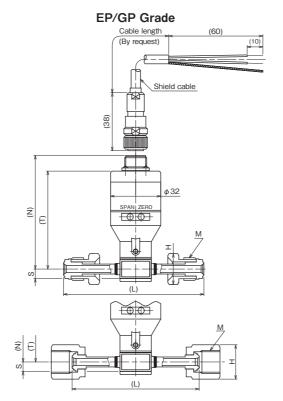
*BA Grade doesn't have screw.



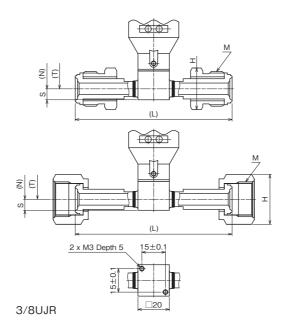
Grade	Connection	Piping	Screw size M			Dir		Model number	
Grade	Connection	DIA.	Screw Size IVI	N	Т	S	Н	L	Wioder Humber
	VCR Male nut	1/4	9/16-18UNF	72	62	6	16 x 18.5 Hex.	86	ZT15-AJ6, ZT15-CJ6
		3/8	7/8-14UNF	77.5	67.5	7	24 x 27.7 Hex.	90.5	ZT15-AK6, ZT15-CK6
	VCR Female nut (Bearings are not included)	1/4	9/16-18UNF	72	62	6	19 x 21.9 Hex.	80.8	ZT15-AL6, ZT15-CL6
		3/8	7/8-14UNF	77.5	67.5	7	27 x 31.2 Hex.	81.8	ZT15-AM6, ZT15-CM6
	UJR Male nut	1/4	9/16-18UNF	72	62	6	17 x 19.6 Hex.	87	ZT15-AN6, ZT15-CN6
UC		3/8	7/8-14UNF	77.5	67.5	7	23 x 26.6 Hex.	100	ZT15-AP6, ZT15-CP6
UC	UJR Female nut	1/4	9/16-18UNF	72	62	6	19 x 21.9 Hex.	87	ZT15-AQ6, ZT15-CQ6
	(With pure ring)	3/8	7/8-14UNF	77.5	67.5	7	26 x 30 Hex.	100	ZT15-AR6, ZT15-CR6
	CVC Male nut	1/4	9/16-18UNF	72	62	6	15.8 x 18.2 Hex.	86	ZT15-AW6, ZT15-CW6
	CVC Male nut	3/8	7/8-14UNF	77.5	67.5	7	23.8 x 27.5 Hex.	90.6	ZT15-AX6, ZT15-CX6
	CVC Female nut	1/4	9/16-18UNF	72	62	6	19 x 21.9 Hex.	80.8	ZT15-AY6, ZT15-CY6
	(Bearings are not included)	3/8	7/8-14UNF	77.5	67.5	7	27 x 31.2 Hex.	82	ZT15-AZ6, ZT15-CZ6

Grade	Connection	Piping	Screw size M			Dir	mensions		- Model number	
Grade	Connection	DIA.	OCIEW SIZE IVI	N	Т	S	Н	L		
	VCR Male nut				62.5		16 x 18.5 Hex.	86	ZT15-AJN, ZT15-CJN	
	VCR Female nut (Bearings are not included)					6	19 x 21.9 Hex.	80.8	ZT15-ALN, ZT15-CLN	
	UJR Male nut	1/4	9/16-18UNF	72.5			17 x 19.6 Hex.	92	ZT15-ANN, ZT15-CNN	
BA	UJR Female nut (Without pure ring)	1/4					19 x 21.9 Hex.	81	ZT15-AQN, ZT15-CQN	
	CVC Male nut						15.8 x 18.2 Hex.	86	ZT15-AWN, ZT15-CWN	
	CVC Female nut (Bearings are not included)						19 x 21.9 Hex.	80.8	ZT15-AYN, ZT15-CYN	

External Adjustment Type T Male nut/Female nut



1/4UJR * There is no M3 screw on the piping diameter 1/4.

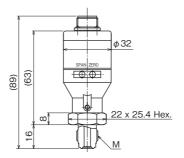


Grade	Connection	Piping Screw size M			Dimensions							
Grade	Connection	DIA.	Screw Size IVI	N	Т	S	Н	L	number			
	LLIP Mala put	1/4	9/16-18UNF	72.5	62.5	6	17 x 19.6 Hex.	87	ZT15-CNE			
EP -	UJR Male nut	3/8	7/8-14UNF	77.5	67.5	7	23 x 26.6 Hex.	100	ZT15-CPE			
	UJR Female nut	1/4	9/16-18UNF	72.5	62.5	6	19 x 21.9 Hex.	81	ZT15-CQE			
	(Without pure ring)	3/8	7/8-14UNF	77.5	67.5	7	26 x 30 Hex.	100	ZT15-CRE			

Grade	Connection	Piping	Screw size M		Model				
Grade	Corniection	DIA.		N	Т	S	Н	L	number
GP -	UJR Male nut	1/4	9/16-18UNF	72.5	62.5	6	17 x 19.6 Hex.	87	ZT15-CNG
	UJR Female nut (Without pure ring)			72.5	02.5	0	19 x 21.9 Hex.	81	ZT15-CQG

External Adjustment Type S Male Integrated

UC/BA/EP/GP Grade



Compatible with 1/4 VCR

Grade	Connection	Piping DIA.	Screw size M	Model number
UC	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-B36, ZT15-D36

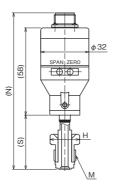
Grade	Connection	Piping DIA.	Screw size M	Model number
ВА	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-B3N, ZT15-D3N

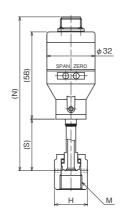
Grade	Connection	Piping DIA.	Screw size M	Model number
EP	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-D3E

Grade	Connection	Piping DIA.	Screw size M	Model number
GP	Compatible with VCR Male integrated	1/4	9/16-18UNF	ZT15-D3G

External Adjustment Type S Male nut/Female nut

UC/BA/EP/GP Grade





Grade	Connection	Piping	Screw size M		Dir	nensions	Model number		
Grade	Connection	DIA.	Screw Size IVI	N	S	Н	Woder Humber		
	VCR Male nut			102	34	16 x 18.5 Hex.	ZT15-BJ6, ZT15-DJ6		
	VCR Female nut (Bearings are not included)			99.4	31.4	19 x 21.9 Hex.	ZT15-BL6, ZT15-DL6		
UC	UJR Male nut		9/16-18UNF	105	37	17 x 19.6 Hex.	ZT15-BN6, ZT15-DN6		
	UJR Female nut (With pure ring)	1/4		102.5	34.5	19 x 21.9 Hex.	ZT15-BQ6, ZT15-DQ6		
	CVC Male nut			104	36	15.8 x 18.2 Hex.	ZT15-BW6, ZT15-DW6		
	CVC Female nut (Bearings are not included)			99.4	31.4	19 x 21.9 Hex.	ZT15-BY6, ZT15-DY6		

Grade	Connection	Piping	Screw size M		Dir	mensions	Model number	
Grade	Connection	DIA.	Screw Size IVI	N	S	Н	Model Humber	
	VCR Male nut			102	34	16 x 18.5 Hex.	ZT15-BJN, ZT15-DJN	
	VCR Female nut (Bearings are not included)			89.8	21.8	19 x 21.9 Hex.	ZT15-BLN, ZT15-DLN	
ВА	UJR Male nut	1/4	9/16-18UNF	105	37	17 x 19.6 Hex.	ZT15-BNN, ZT15-DNN	
DA	UJR Female nut (Without pure ring)			89.7	21.7	19 x 21.9 Hex.	ZT15-BQN, ZT15-DQN	
	CVC Male nut			104	36	15.8 x 18.2 Hex.	ZT15-BWN, ZT15-DWN	
	CVC Female nut (Bearings are not included)			99.4	31.4	19 x 21.9 Hex.	ZT15-BYN, ZT15-DYN	

Grade	Connection	Piping	Screw size M		Model		
Grade	Connection	DIA.	Screw Size IVI	N	S	Н	number
EP	UJR Male nut		9/16-18UNF	102.5	34.5	17 x 19.6 Hex.	ZT15-DNE
	UJR Female nut (Without pure ring)	1/4	9/10-16UNF	99.5	31.5	19 x 21.9 Hex.	ZT15-DQE

Grade	Connection		Screw size M		Model				
Grade	Connection	DIA.	Screw Size IVI	N	S	Н	number		
OD	UJR Male nut		9/16-18UNF	102.5	34.5	17 x 19.6 Hex.	ZT15-DNG		
GP	UJR Female nut (Without pure ring)	1/4	9/10-18UNF	99.5	31.5	19 x 21.9 Hex.	ZT15-DQG		

Pressure Transmitters, UC Grade

CE compliant

Model number configuration

М	odel																		
ΖT	1 5	<u> </u>	_ [6	_						X	X	X	X	×	X	
Pressure				1)	2	3		4	(5)	6	7	8	9	10	11)	(12)	13	(14)	(15)
Model n]	Sele	ctive s	spec.		Addi	tional	spec.	(Optio	า)			
	1			С	Туре	T, Exte	ernal ac				ype, CE	compl		opoo.	(-				
	Mounting	*1		D								compl							
				M N								compli							
L	(2))			Турс	0, 1110	mar aa	dottrici	TC COLLIN	otor ty	pc, or	COMPIL	ant					Type S	Туре Т
	-	onnec	tion		3	1/4	Comp	oatible	with VO	CR Mal	e integr	ated						0	0
					J	1/4	VCR	Male n	iut									0	0
					K L	3/8									×	0			
					M	3/8	VCR	Female	e nut (B	earings	are no	t includ	ded)					×	0
					N	1/4	LLIB	Male n	ut									0	0
					Р	3/8	0011	- Iviaio iii										×	0
					Q R	1/4 3/8	UJR	Female	nut (W	ith pur	e ring)							O ×	0
					W	1/4	0::5											$\hat{}$	0
					Х	3/8	CVC	Male r	nut									×	0
					Y Z	1/4 3/8	cvc	Female	e nut (E	Bearings	s are no	ot includ	ded)					О ×	0
			3)			6	UC G	arade											
		l v	Wetted by grad		3			•Pressure sensor: Co-Ni alloy (All welding) •Fitting: SUS316L											
					4			С	-0.1	to 0.3N	1Pa								
					Press	sure rar	nge	D		to 0.5N									
								E F		to 1MP									
			\neg					1		0.3MPa									
	ecify the p d units sep							2		0.5MPa									
besides s	election of	f						3 0 to 1MPa											
Talligo coo								5		2MPa 3.5MPa									
								6		5.5MPa	1								
								7	0 to	10MPa	ı								
								8	0 to	20MPa									
						⑤ Accu	racy		5	±0.5	5%F.S.	(0.5MF	Pa range	e or gre	ater ca	in be sp	pecifie	d)	
						7,000	Г		7)%F.S.								
							6 Powe	er sourc	e	1		DC±10							
										6		DC±10	-						
								⑦ Outp	ut		1		20 mA						
											8		5V DC	(3-wire	systen	1)			
									8 Adius	stment	cable	0	Nil Cable	e length	: 1 m				
									speci	ification	1	2		e length					
										at resis Id cable		3		elength		Standa	rd)		
												5		elength		fioc+! -			
										€		9	Other:	s lengtl Nil	1 speci	iication	1		
*1 ZT15-1[□, and	d				(15) Docu	ment		1	Requi					
	are n												(Please specify the desired documents separately. Submission drawings,			parately.)			
*2 For UC manufac	Grade, the ctured in D						est.									nanual, rocedu		I test re	port,
Please of	contact us															pc 1 tracea			te.
									inspection / traceab strength calculation			٦,		,					
														auen	uea ins	pection	ı		

^{*}Specify "X" if there is no applicable specification.

Pressure Transmitters, UC Grade

Non-CE compliant

Model number configuration Please specify the model number, each specs and the range for ordering. Model Т 1 5 6 Pressure Transmitter 1 2 3 4 (5) 6 7 (8) (9) (10) 11) (12) (13) (14) UC Grade (Non-CE compliant) Model number Selective spec. Additional spec. (Option) Type T, Internal adjustment connector type Mounting *1 2 Type S, Internal adjustment connector type Α Type T, External adjustment connector type В Type S, External adjustment connector type Type S Type T (2) Connection Compatible with VCR Male integrated 1/4 VCR Male nut Κ 3/8 × \bigcirc \bigcirc 1/4 VCR Female nut (Bearings are not included) Μ \bigcirc 3/8 \bigcirc Ν 1/4 UJR Male nut Р 3/8 Q 1/4 UJR Female nut (With pure ring) R 3/8 W 1/4 CVC Male nut Χ 3/8 1/4 CVC Female nut (Bearings are not included) Z 3/8 3 6 UC Grade ·Pressure sensor: Co-Ni alloy (All welding) Wetted parts by grade *2 Fitting: SUS316L -0.1 to 0.3MPa (4) ח -0.1 to 0.5MPa Pressure range F -0.1 to 1MPa F -0.1 to 2MPa 0 to 0.3MPa Please specify the pressure 0 to 0.5MPa range and units separately besides selection of 0 to 1MPa range code. 0 to 2MPa 5 0 to 3.5MPa 6 0 to 5MPa 0 to 10MPa 8 0 to 20MPa $\pm 0.5\%$ F.S. (0.5MPa range or greater can be specified) Accuracy +10%FS 6 24V DC±10% Power source 6 12V DC±10% (3-wire system only) 4 to 20 mA DC (2-wire system) Output 1 to 5V DC (3-wire system) 0 Nil Adjustment cable 1 Cable length: 1 m specification 2 Cable length: 2 m (A heat resistant Cable length: 3 m (Standard) 3 shield cable) 5 Cable length: 5 m 9 Others length specification 0 Nil (15) Document *1 ZT15-1 \square , ZT15-2 \square , ZT15-A \square , and Required (Please specify the desired documents separately.) ZT15-B□□ are non-CE compliant. Submission drawings, *2 For UC Grade, the pressure transmitter can be instruction manual, manufactured in DOUBLE MELT material by request. inspection procedure, mill test report, Please contact us. test report (1 pc 1 copy), inspection / traceability certificate, strength calculation,

*Specify "X" if there is no applicable specification.

attended inspection

Pressure Transmitters, UC Grade

CE compliant

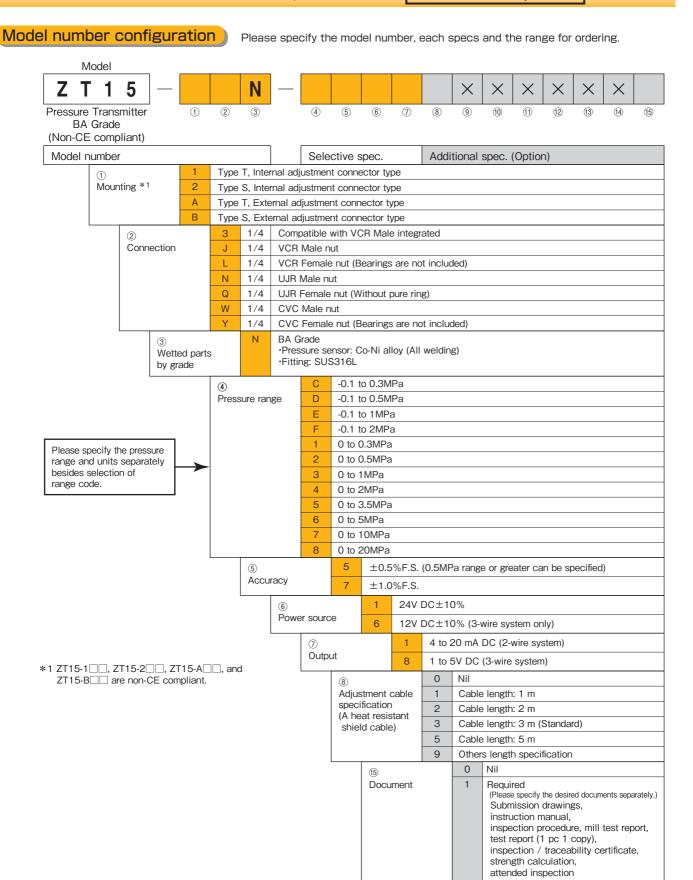
Model number configuration

Model																		
Z T 1	5	_			6	_						X	×	X	X	X	X	
Pressure Trans UC Grade			1	2	3		4	(5)	6	7	8	9	10	11)	12	13	(4)	(15)
Model numbe	er						Sele	ctive s	spec.		Addi	tional	spec.	(Option	า)			
1			С	Туре	T, Exte	ernal ac	ljustme	nt conn	ector t	ype, CE	compl	iant			,			
	nting * 1		D	Туре	S, Exte	ernal ac	ljustme	nt conr	nector t	ype, CE	E compl	iant						
			М	Type	T, Inte	rnal adj	ustmen	it conne	ector ty	pe, CE	compli	ant						
			N	Type	S, Inte	rnal adj	ustmer	t conn	ector ty	pe, CE	compli	ant						
	② Conne	ection		3 1/4 Compatible with VCR Male integrated												Type S	Type	
	Connection																0	0
				K	3/8	VCR	Male n	ut									×	0
				L	1/4	VCR	Female	nut (F	learings	s are no	nt includ	ded)					0	0
						M 3/8 VCR Female nut (Bearings are not included)									×	0		
						N 1/4 UJR Male nut									0	0		
						P 3/8										×	0	
						Q 1/4 R 3/8 UJR Female nut (With pure ring)								-	0	0		
				W	1/4												×	0
				X	3/8	cvc	Male n	ut									×	
				Y	1/4												$\hat{}$	0
				Z	3/8	CVC	Female	e nut (E	Bearings	s are no	ot includ	ded)				-	×	0
	③ Wetted part by grade *2					6 UC Grade • Pressure sensor: Co-Ni alloy (All welding) • Fitting: SUS316L										•		
	L					С	-0.1	to 0.3N	MPa									
	Pressure range				-0.1 to 0.5MPa													
					E				-0.1 to 1MPa									
				F				-0.1 to 2MPa										
Please specify t	1				0 to 0.3MPa 0 to 0.5MPa													
range and units	range and units separately					2				а								
besides selection of range code.				3				0 to 1MPa										
							4		2MPa									
							5 6		3.5MPa 5MPa	3								
							7		10MPa									
							8											
								5			(0 5ME	a rang	e or gre	ater ca	n he sr	necifie	٦)	
		⑤ Accu	racy		7)%F.S.	S. (0.5MPa range or greater can be specified) S.										
	6					1	24V	DC±1	O%									
				Powe	er sourc	e	6	12V	DC±10% (3-wire system only)									
							7			1	4 to 2	20 mA	DC (2-1	wire sys	stem)			
							Outp	ut		8	1 to !	5V DC	(3-wire	system	1)			
								8			0	Nil						
									stment		1		elength					
							specification (A heat resistant 2 Cable length: 2 m						D.					
						shield cable) 3 Cable length: 3 m (Standard) 5 Cable length: 5 m								rd)				
											5 9				fication			
									(F)		9	Others length specification O Nil						
1 ZT15-1□□, ZT15-2□□, ZT15-A□□, and ZT15-B□□ are non-CE compliant.								Document 1 Required (Please specify the desired						ments sep	parately			
2 For UC Grade, the pressure transmitter can be manufactured in DOUBLE MELT material by request. Please contact us.									Submission drawings, instruction manual, inspection procedure, metest report (1 pc 1 copy inspection / traceability strength calculation, attended inspection					re, mill copy), bility c	/),			

^{*}Specify "X" if there is no applicable specification.

Pressure Transmitters, BA Grade

Non-CE compliant



^{*}Specify "X" if there is no applicable specification.

Pressure Transmitters, EP Grade

CE compliant

Model number configuration

N	1odel						ı		ı							1			
ZT	1	5	—			Е							×	×	×	×	×	×	
Pressure EP	Transn Grade	nitter		1	2	3		4)	(5)	6	7	8	9	10	11)	12	13	14)	(15)
Model number								Sele	ctive s	pec.		Addi	tional	spec.	(Optio	n)			
	1			С		Type T, External adjustment connector type, CE compliant													
	Mount	ing		D		Type S, External adjustment connector type, CE compliant Type T, Internal adjustment connector type, CE compliant													
				M N		Type T, Internal adjustment connector type, CE compliant Type S, Internal adjustment connector type, CE compliant													
		<u> </u>		14	Турс												Гуре S	Tyne	
		② Connection				1/4	Com	Compatible with VCR Male integrated								- 1	0	0	
					4	1/2 (3/8)		Compatible with VCR Male integrated										×	C
					N	1/4									0	С			
						P 3/8 UJR Ma			ale nut									×	С
						1/4	UJR	Female	nut (W	'ithout i	oure rin	ıg)						0	С
	L				R											×	С		
			③ Wette by gra	ed parts ade	5	EP Grade • Pressure sensor: SUS316L (All welding) • Fitting: SUS316L													
					4			С	-0.1 1	o 0.3N	1Pa								
						sure ran	ge	D		o 0.5N									
								E	-0.1 to 1MPa										
								F	-0.1 to 2MPa										
Please specify the pressure range and units separately besides selection of range code.							1 0 to 0.3MPa 2 0 to 0.5MPa												
									3 0 to 1MPa										
									0 to 2MPa										
								5	0 to 3.5MPa										
								6	0 to 5MPa										
								7	0 to 10MPa										
								8		0 to 20MPa									
						⑤ Accu	racv		5			. (0.5MPa range or greater can be specified)					d)		
						Accu	Пасу		7	±1.0)%F.S.								
							⑥ Down			1	24V	DC±1							
							FOWE	er sourc	.e	6 12V		DC±10% (3-wire system only)							
								⑦ Outp			1	4 to 2	20 mA DC (2-wire system)						
								Outp	uı		8	1 to	o 5V DC (3-wire system)						
									8			0	Nil						
										tment fication		1	Cable length: 1 m						
								(A heat resistant			3	Cable length: 2 m Cable length: 3 m (Standard)							
								shield cable)			5	Cable length: 5 m							
												9				fication			
										(15)			0	Nil					
										_	iment		1 Required (Please specify the desired documents separ Submission drawings, instruction manual, inspection procedure, mill test report test report (1 pc 1 copy), inspection / traceability certificate strength calculation,					port,	
														stren	gth cal		١,	or amod	_

^{*}Specify "X" if there is no applicable specification.

Pressure Transmitters, GP Grade

CE compliant

Model number configuration

