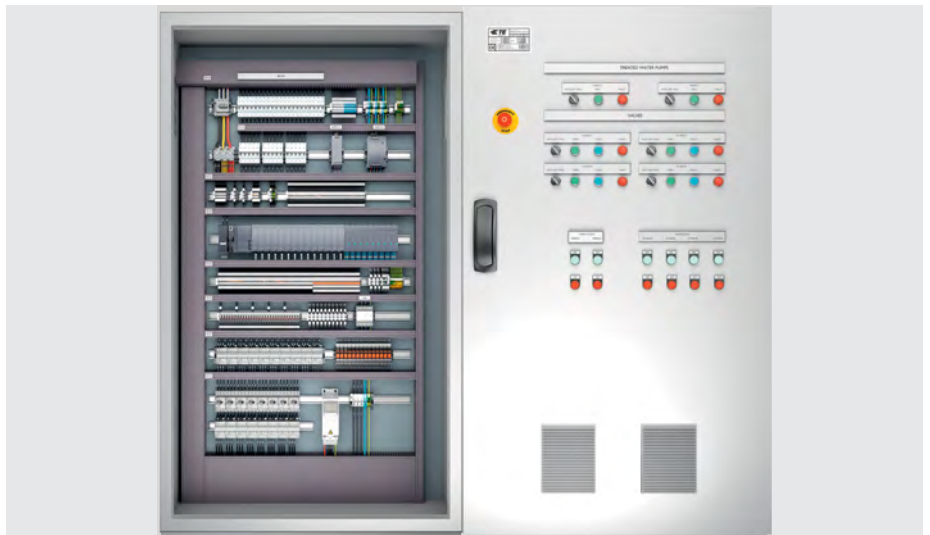


VENTILATION CABLE GLANDS

Brass and polyamide ventilation cable glands



Ventilation cable glands

Brass and polyamide ventilation cable glands



VENTILATION CABLE GLANDS FOR CABLE ENTRY PROTECTION AND PRESSURE BALANCE WITHIN ENCLOSURES

TE Connectivity's (TE) ventilation plugs combine advantages of cable gland and pressure balance function in one product. They balance pressure differences between inner housing and the outside environment help to prevent damages due to pressure differences and also prevent the formation of water condensation in tightly-sealed standard housings. The range is provided both in Polyamide and brass material.

VENTILATION CABLE GLANDS

BENEFIT STATEMENTS

- 2 in 1 product: Cable gland and ventilation plug
- Balances pressure differences between inner housing and the outside environment
- Helps prevent damages according to pressure differences
- Helps prevent the formation of water condensation in tightly-sealed standard housings
- Properties of the ventilation membrane stay the same independent of cable diameter and torque
- Membrane properties: hydrophobic, oleophobic
- Easy assembly: install cable gland - insert cable - tighten cap
- High quality strain relief and sealing reliable performance for standard industrial applications & harsh environments.

APPLICATIONS

- Outdoor LED lighting: Luminaires
- BESS (Battery Energy Storage Systems)
- EV (Electric Vehicle) charging
- Telecommunication enclosures
- Wind energy
- Control cabinets
- Panel builders
- Automation controls
- HVAC (Heating Ventilation Air Conditioning).

KEY FEATURES

- Polyamide or brass material
- Ingress protection rating:
IP66/IP67 (Brass)
IP66/IP68/IP69 (Polyamide)
- Thread type: Metric (EN 60423), PG (DIN 40430), NPT (ANSI B1.20.1).

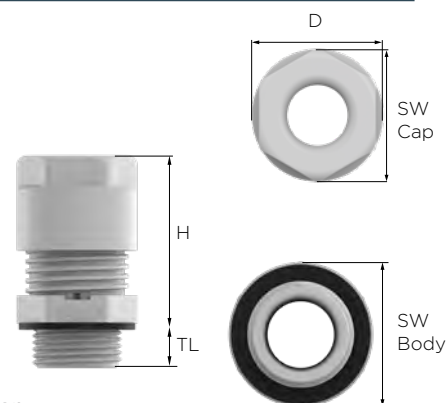
Ventilation cable glands

Brass and polyamide ventilation cable glands



Polyamide ventilation cable glands

- For standard industrial applications
- 2 in 1 product: Cable gland and ventilation plug
- Balances pressure differences between inner housing and the outside environment
- Helps prevent damages according to pressure differences.
- Helps prevent the formation of water condensation in tightly-sealed standard housings
- Properties of the ventilation membrane stay the same independent of cable diameter and torque
- Membrane properties: hydrophobic, oleophobic
- Easy assembly: install cable gland - insert cable - tighten cap
- Material: Body, Cap: PA 6 / Seal: CR
- Ingress Protection Rating: IP68/ IP 66/IP69
- UL Environmental Rating: TYPE 1, 4X acc. to UL 50E
- Flammability: V2 according to UL94
- Operating temperature:
 - Permanent: -40 °C to +100 °C
 - Intermittent: -45 °C to +150 °C
- Cable type: Non armoured
- Accessories (refers to dedicated page): Locknuts, Washer Gaskets, Dome Plugs.



Thread Type METRIC acc. to EN 60423

Outer Thread Size (Male)	Clamping Range Ø min-max		Average Air Flow for ΔP=70mbar	Water Intrusion Pressure		Outer Thread Length TL		Spanner Width SW Cap		Spanner Width SW Body		Outer Ø D		Max. Height H		Light Grey RAL 7035	Grey RAL 7001	Black RAL 9005	Pkg
	mm	in	L/H	bar	psi	mm	in	mm	in	mm	in	mm	in	mm	in	Part Number	Part Number	Part Number	per Box
M12x1.5	4-8	0.157-0.315	70	0.2	2.90	8	0.315	19	0.748	19	0.748	21.5	0.846	33	1.299	2490541-2	2490541-1	2490541-3	100
M16x1.5	4-8	0.157-0.315	70	0.2	2.90	10	0.333	19	0.748	19	0.748	21.5	0.846	33	1.299	2490541-5	2490541-4	2490541-6	75
M20x1.5	6-12	0.236-0.472	120	0.2	2.90	10	0.333	24	0.944	24	0.944	27	1.062	39.5	1.555	2490541-8	2490541-7	2490541-9	50

Thread Type NPT acc. to ANSI B1.20.1 * with locknut included

Outer Thread Size (Male)	Clamping Range Ø min-max		Average Air Flow for ΔP=70mbar	Water Intrusion Pressure		Outer Thread Length TL		Spanner Width SW Cap		Spanner Width SW Body		Outer Ø D		Max. Height H		Light Grey RAL 7035	Grey RAL 7001	Black RAL 9005	Pkg
	mm	in	L/H	bar	psi	mm	in	mm	in	mm	in	mm	in	mm	in	Part Number	Part Number	Part Number	per Box
NPT 3/8"	4-8	0.079-0.236	70	0.2	2.90	15	0.590	19	0.748	22	0.866	21.5	0.846	33	1.299	2-2490541-0	1-2490541-9	2-2490541-1	100
NPT 1/2"	6-12	0.236-0.472	120	0.2	2.90	15	0.590	24	0.944	24	0.944	27	1.062	39.5	1.555	2-2490541-3	2-2490541-2	2-2490541-4	50

Thread Type PG acc. to DIN 40430

Outer Thread Size (Male)	Clamping Range Ø min-max		Average Air Flow for ΔP=70mbar	Water Intrusion Pressure		Outer Thread Length TL		Spanner Width SW Cap		Spanner Width SW Body		Outer Ø D		Max. Height H		Light Grey RAL 7035	Grey RAL 7001	Black RAL 9005	Pkg
	mm	in	L/H	bar	psi	mm	in	mm	in	mm	in	mm	in	mm	in	Part Number	Part Number	Part Number	per Box
PG9	4-8	0.157-0.315	70	0.2	2.90	8	0.315	19	0.748	19	0.748	21.5	0.846	33	1.299	1-2490541-1	1-2490541-0	1-2490541-2	100
PG11	4-8	0.157-0.315	70	0.2	2.90	8	0.315	19	0.748	22	0.866	21.5	0.846	33	1.299	1-2490541-4	1-2490541-3	1-2490541-5	75
PG13.5	6-12	0.236-0.472	120	0.2	2.90	9	0.354	24	0.944	24	0.944	27	1.062	39.5	1.555	1-2490541-7	1-2490541-6	1-2490541-8	50

Ventilation cable glands

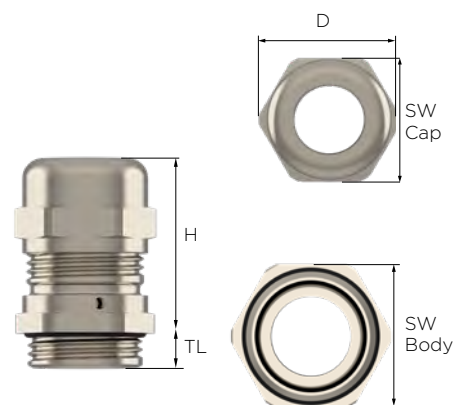
Brass and polyamide ventilation cable glands



Brass ventilation cable glands

For standard & harsh industrial applications

- 2 in 1 product: Cable gland and ventilation plug
- Balances pressure differences between inner housing and the outside environment
- Helps prevent damages according to pressure differences
- Helps prevent the formation of water condensation in tightly-sealed standard housings
- Properties of the ventilation membrane stay the same independent of cable diameter and torque
- Membrane properties: hydrophobic, oleophobic
- Easy assembly: install cable gland - insert cable - tighten cap
- Material: Brass Nickel plated Seal: CR
- Ingress Protection Rating: IP66 / IP67
- Flammability: V2 according to UL94
- Operating temperature:
 - Permanent: -20 °C to +100 °C
 - Intermittent: -40 °C to +150 °C
- Cable type: Non armoured
- Accessories (refers to dedicated page): Locknuts, Washer Gaskets, Dome Plugs.



Thread Type METRIC acc. to EN 60423

Outer Thread Size (Male)	Clamping Range Ø min-max		Average Air Flow for ΔP=70mbar	Water Intrusion Pressure		Outer Thread Length		Spanner Width				Outer Ø		Max. Height		Part Number	Pkg per Box	
	mm	in		bar	psi	TL	mm	in	SW Cap		SW Body		D	mm	in			H
									mm	in	mm	in						
M12x1.5	2-6	0.079-0.236	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	32.7	1.287	2490540-1	100	
	4-7	0.157-0.276	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	32.7	1.287	2490540-2	100	
M16x1.5	2-6	0.079-0.236	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	29.2	1.149	2490540-3	50	
	4-7	0.157-0.276	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	29.2	1.149	2490540-4	50	
	3-7	0.118-0.276	35	0.1	1.45	8	0.315	20	0.787	20	0.787	22	0.866	36.1	1.421	2490540-5	50	
	5-9	0.197-0.354	35	0.1	1.45	8	0.315	20	0.787	20	0.787	22	0.866	36.1	1.421	2490540-6	50	
M20x1.5	5-9	0.197-0.354	50	0.1	1.45	8	0.315	22	0.866	22	0.866	24.5	0.964	32.3	1.271	2490540-7	50	
	6-11	0.236-0.433	50	0.1	1.45	8	0.315	22	0.866	22	0.866	24.5	0.964	32.3	1.271	2490540-8	50	

Thread Type PG acc. to DIN 40430

Outer Thread Size (Male)	Clamping Range Ø min-max		Average Air Flow for ΔP=70mbar	Water Intrusion Pressure		Outer Thread Length		Spanner Width				Outer Ø		Max. Height		Part Number	Pkg per Box
	mm	in		bar	psi	mm	in	SW Cap		SW Body		D		H			
								mm	in	mm	in	mm	in	mm	in		
PG 7	2-6	0.079-0.236	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	32.6	1.283	2490540-9	100
	4-7	0.157-0.276	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	32.6	1.283	1-2490540-0	100
PG 9	2-6	0.079-0.236	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	29.1	1.145	1-2490540-1	100
	4-7	0.157-0.276	25	0.1	1.45	8	0.315	17	0.669	17	0.669	18.9	0.744	29.1	1.145	1-2490540-2	100
PG 11	3-7	0.118-0.276	35	0.1	1.45	8	0.315	20	0.787	20	0.787	22	0.866	36.1	1.421	1-2490540-3	50
	5-9	0.197-0.354	35	0.1	1.45	8	0.315	20	0.787	20	0.787	22	0.866	36.1	1.421	1-2490540-4	50
PG 13.5	5-9	0.197-0.354	50	0.1	1.45	9	0.354	22	0.866	22	0.866	24.5	0.964	32.3	1.271	1-2490540-5	50
	6-11	0.236-0.433	50	0.1	1.45	9	0.354	22	0.866	22	0.866	24.5	0.964	32.3	1.271	1-2490540-6	50

Ventilation cable glands

Brass and polyamide ventilation cable glands

Ventilation cable glands torque values

Torque values for polyamide ventilation cable glands

Outer Thread Size (Male)	Light Grey RAL 7035	Grey RAL 7001	Black RAL 9005	Cap - Body - Lock Nut*		
	Part Number	Part Number	Part Number	Recommended Tightening Torques		
				Nm	lb.in	Tolerance Nm/lb.in
M12x1.5	2490541-2	2490541-1	2490541-3	2.5	22.11	±0.2/1.769
M16x1.5	2490541-5	2490541-4	2490541-6	2.5	22.11	
M20x1.5	2490541-8	2490541-7	2490541-9	3.5	30.96	
NPT 3/8"	2-2490541-0	1-2490541-9	2-2490541-1	2.5	22.11	
NPT 1/2"	2-2490541-3	2-2490541-2	2-2490541-4	3.5	30.96	
PG9	1-2490541-1	1-2490541-0	1-2490541-2	2.5	22.11	
PG11	1-2490541-4	1-2490541-3	1-2490541-5	2.5	22.11	
PG13.5	1-2490541-7	1-2490541-6	1-2490541-8	3.5	30.96	

*When lock nut is used, the screwing length must be at least 1.5 times of the relevant lock nut thickness.
The body max tight. torque is limited with the a) body thread type b) threaded enclosure thickness c) lock nut thickness.
These indicative torque values are determined for the safe using of the glands. According to the item 1, these torque values can be increased.



Torque values for brass ventilation cable glands

Outer Thread Size (Male)	Part Number	Cap - Body - Lock Nut*			
		Recommended Tightening Torques			
		Nm	lb.in	Tolerance Nm/lb.in	
M12x1.5	2490540-1	6	53.01	±0.5/4.422	
	2490540-2				
M16x1.5	2490540-3	6	53.01		
	2490540-4				
	2490540-5	6.5	57.50		
	2490540-6				
M20x1.5	2490540-7	7.5	66.35		
	2490540-8				
PG7	2490540-9	6	53.01		
	1-2490540-0				
PG9	1-2490540-1	6	53.01		
	1-2490540-2				
PG11	1-2490540-3	6.5	57.50		
	1-2490540-4				
PG13.5	1-2490540-5	7.5	66.35		
	1-2490540-6				

*For threaded enclosures it is recommended to engage 3 full threads, otherwise it is recommended to use locknut.
The body max tightening torque is limited with the a) body thread type b) threaded enclosure thickness c) locknut thickness.
These indicative torque values are determined for the safe using of the glands. According to the item 1, these torque values can be increased.



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INDUSTRIAL / VENTILATION CABLE GLANDS / BROCHURE / EN

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BROCHURE

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