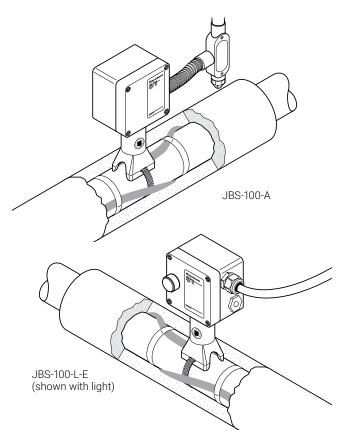


SINGLE-ENTRY POWER CONNECTION WITH JUNCTION BOX 🖘





The nVent RAYCHEM JBS-100 kit is designed to connect power to one nVent RAYCHEM BTV, QTVR, XTV, KTV or VPL industrial parallel heating cable. It is approved by FM, CSA, and PTB for use in hazardous locations.

The JBS-100 integrates the functions of both connection kits and insulation entries. The rugged stand protects the heating cable and allows for up to 100 mm (4") of thermal insulation.

The core sealing boot does not require a heat gun or torch for the installation (no hot work permit necessary). The non-curing sealant (silicone free) in the boot allows easy installation and facilitates maintenance.

Spring-type terminals provide fast installation and safe, reliable, maintenance-free operation. This connection kit significantly reduces installation time. The kit is offered in three basic versions, customised for local installation practices. All kits are also available as a lighted version. These include a unique light module with a superbright LED that simply plugs into the terminals, and a lens in the lid. This provides indication that power is available in the box. There is also a connection kit with drain plug available.

DESCRIPTION

	JBS-100-A JBS-100-L-A	JBS-100-E JBS-100-L-E JBS-100-D-E	JBS-100-EP JBS-100-L-EP
	This kit is for use in North America and has one through-hole for use with 3/4" conduit.	This kit is for use in Europe and provides two M25 threaded entries, one stopping plug, and one plastic power cable gland.	This kit is for use in Europe and provides two M25 threaded entries, an earthing plate, and an external earthing stud. It is designed for use with armoured cables.
KIT CONTENTS			
	1 junction box with terminals 1 light module (for -L only) 1 stand 1 core sealer 1 green/yellow earthing sleeve 1 polywater sachet 1 cable tie	1 junction box with terminals 1 light module (for -L only) 1 stand 1 core sealer 1 green/yellow earthing sleeve 1 M25 gland for power cable 8-15 mm (temperature range -55°C / 70°C) in diameter 1 M25 stopping plug 1 polywater sachet 1 cable tie	 1 junction box with terminals, earth plate, and stud 1 light module (for -L only) 1 stand 1 core sealer 1 green/yellow earthing sleeve 1 M25 stopping plug 1 polywater sachet 1 cable tie

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1 ATEX/IECEx Certified drainplug (for JBS-100-D-E only)

APPROVALS (**)

Hazardous locations

Class I, Div. 2, Groups A, B, C, D Class II, Div. 1 & 2, Groups E, F, G Class III

PTB 09 ATEX 1059 U RU C-BE.ИM43.B.01712 1Ex e mb IIC T* Gb X Ex tb IIIC T* Db X Ex tb mb IIIC T* Db X Ta -60°C...+56°C IP66 IECEx PTB 09.0037U Ex eb mb IIC T* Gb

PTB 09 ATEX 1059 U Ex eb mb IIC T* Gb Ex mb tb IIIC T* Db IECEx PTB 09.0037U Ex eb mb IIC T* Gb Ex mb tb IIIC T* Db



Class I, Div. 2, Groups A, B, C, D Class II, Div. 1 & 2, Groups E, F, G Class III

PTB 09 ATEX 1059 U (a) II 2 G Ex eb mb IIC T* Gb IECEx PTB 09.0037U Ex eb mb IIC T* Gb Ex mb tb IIIC T* Db

Ex mb tb IIIC T* Db

PTB 09 ATEX 1059 U (II 2 G Ex eb mb IIC T* Gb ⟨Ex> III 2 D Ex mb tb IIIC T* Db IECEx PTB 09.0037U Ex eb mb IIC T* Gb Ex mb tb IIIC T* Db



CLI, ZN1, AEx e II T* CLI, ZN1, AEx em II T* (for -L only)



Ex e II T* Ex em II T* (for -L only)



⑤P[∗] ExellT*

Ex em II T* (for -L only)



Ex e II T* Ex em II T* (for -L only)

DNV approval DNV-GL TAE00000TV and DNV-GL TAE00000TU DNV approval DNV-GL TAE00000TV and DNV-GL TAE00000TU

*For T-rating, see heating cable or design documentation (1) Except VPL

(**) Localized versions may exist with limited approvals and different part numbers. Contact your local sales representative.

JBS-100-A JBS-100-L-A JBS-100-E JBS-100-EP JBS-100-L-E JBS-100-L-EP





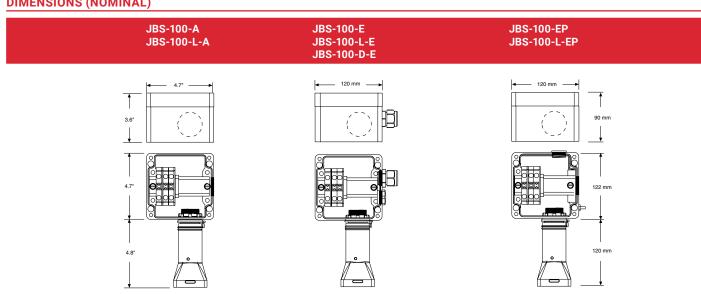
000 "ТехИмпорт"

TC RU C-BE.MЮ62.B.00054/18 Exe IIC Gb U Ex tb IIIC Db U Ta -55°C...+56°C IP66



TC RU C-BE.MIO62.B.00054/18 ExellC Gb U Extb IIIC Db U Ex e mb IIC Gb U Ex tb mb IIIC Db U Ex e mb IIC Gb U Ex tb mb IIIC Db U Ta -55°C...+40°C IP66 000 "ТехИмпорт"

DIMENSIONS (NOMINAL)



	JBS-100-A JBS-100-L-A	JBS-100-E JBS-100-L-E JBS-100-D-E	JBS-100-EP JBS-100-L-EP		
Heating cable capability	BTV-CR, BTV-CT, QTVR-	-CT, XTV-CT, KTV-CT, VPL-CT			
Ingress protection	NEMA Type 4X	IP66/IP67	IP66/IP67		
Entries	1 x 3/4"	2 x M25 including power cable gland for diameter 8 - 17 mm	e 2 x M25		
Ambient temperature range	−50°C to +40°C	-50°C to +56°C* (JBS-100- Eand JBS-100-D-E) -40°C to +40°C (JBS-100-L-E)			
		afe use apply for ambient temperatu 136, the certificate or installation ins	structions for full details.		
Min. installation temperature	-50°C	-50°C	-50°C		
Max. pipe temperature	Refer to heating cable s	'			
Terminals	Spring-type terminals 2 line, 1 ground	Spring-type terminals 1 phase, 1 neutral, 1 earth	Spring-type terminals 1 phase, 1 neutral, 1 earth		
Max. conductor size	8 AWG stranded	10 mm² stranded, 10 mm² solid	10 mm² stranded, 10 mm² solid		
Max. operating voltage	voltages higher than 2	*JBS-100-L-E and JBS-100-L-EP are limited to 254 Vac. Extra conditions for safe use apply for voltages higher than 254 Vac. Please refer to the summary on page 136, the certificate or			
Max. continuous operating current	installation instruction 50 A heating cable circu	ns for full details. uit 40 A heating cable circuit	40 A heating cable circuit		
MATERIALS OF CONSTRUCT	TION				
Enclosure, lid, and stand	electrostatic charge- resistant glass-filled engineered polymer, black	electrostatic charge-resistant glass-filled engineered polymer, black	electrostatic charge-resistant glass-filled engineered polymer, black		
Lid screws	Stainless steel	Stainless steel	Stainless steel		
Lid gasket	Silicone rubber	Silicone rubber	Silicone rubber		
Earth continuity plate	N/A	N/A	Steel, zinc plated, and blue chromated		
OPTIONAL LED INDICATOR I	LIGHT				
Colour	Red	Green	Green		
Voltage rating	100-277 Vac	100-254 Vac	100-254 Vac		
Power consumption	< 1 W	< 1 W	< 1 W		
Ordering details (**)					
POWER CONNECTION					
Part Description (**)	JBS-100-A	JBS-100-E	JBS-100-EP		
PN (Weight)	085947-000 (2.5 lb)	829939-000 (1.2 kg)	158251-000 (1.3 kg)		
POWER CONNECTION WITH					
Part Description	JBS-100-L-A	JBS-100-L-E	JBS-100-L-EP		
PN (Weight)	944699-000 (3.5 lb)	054363-000 (1.6 kg)	075249-000 (1.7 kg)		
POWER CONNECTION WITH					
Part Description	JBS-100-D-E				
PN (Weight)	1244-021057 (1.4 kg)				
ACCESSORIES					
Conduit drain 3/4"	JB-DRAIN-PLUG-3/4IN (prevents condensate from collecting in the box) ONLY FOR JBS-100-L-A				
Small pipe adaptor	JBS-SPA, required for pipe	es ≤ 1" (DN 25) E90515-000 (bag of	5 adaptors)		
Glands for power cables	GL-55-M25 hazardous area approved gland for cables 8-15 mm (temperature range -55°C/70°C) GL-36-M25 hazardous area approved gland for cables 8-17.5 mm (temperature range -20°C/70°C) exist with limited approvals and different part numbers. Contact your local sales representative.				

(**) Localized versions may exist with limited approvals and different part numbers. Contact your local sales representative.

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