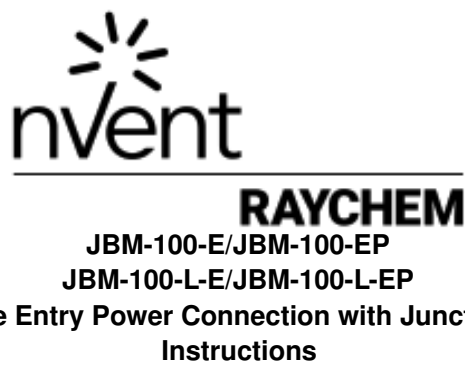




nVent RAYCHEM JBM-100-L-EP Multiple Entry Power Connection with Junction Box Instructions

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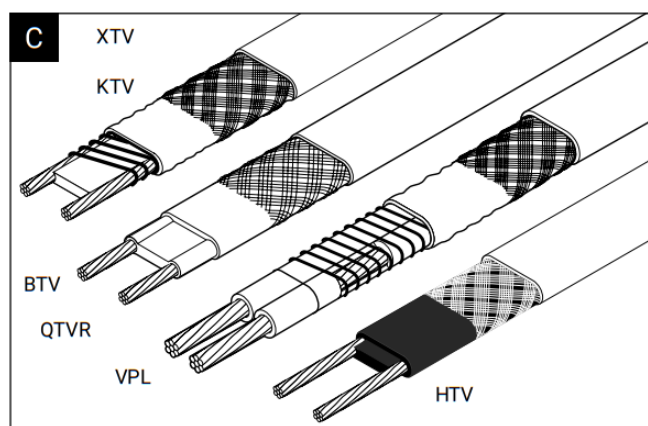
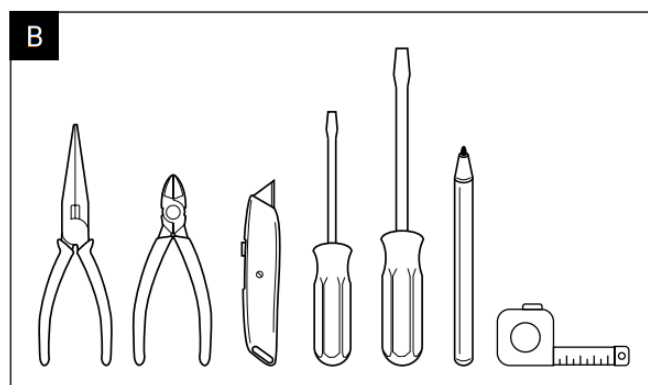
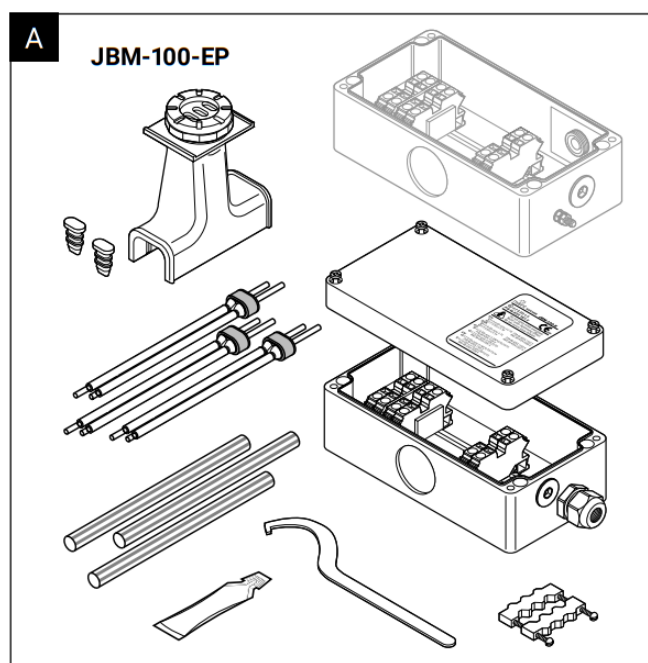
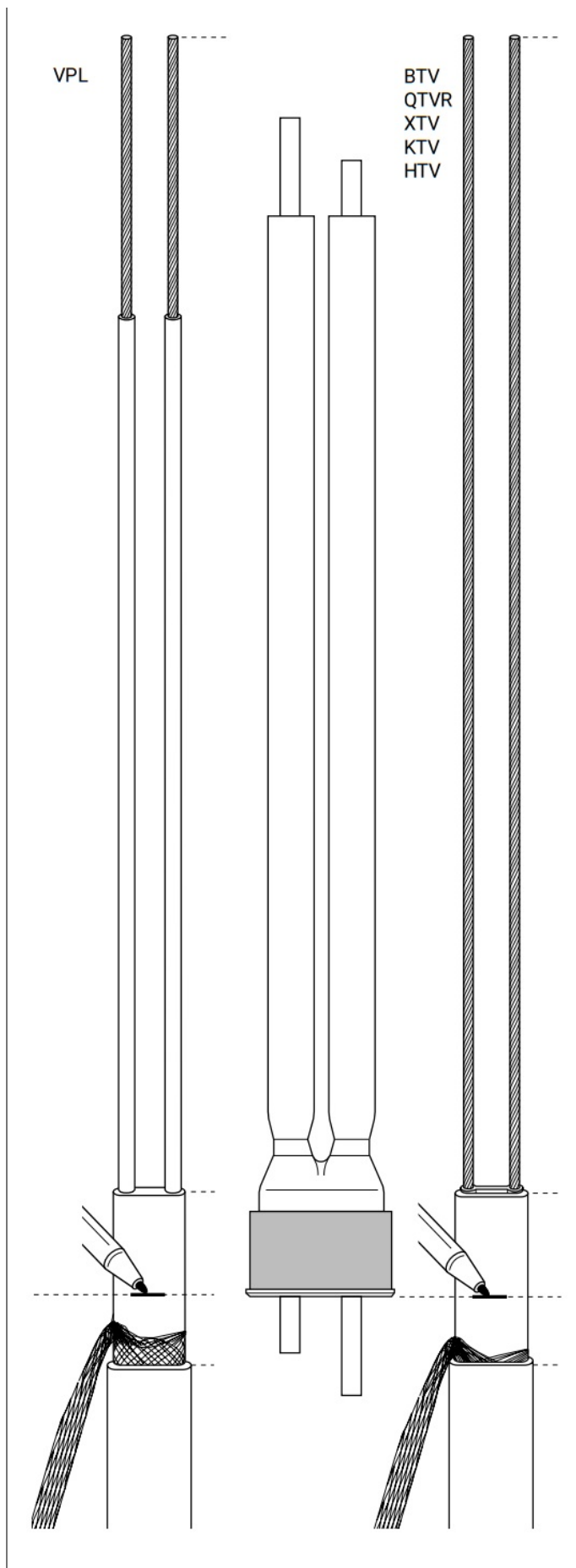
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JBM-100-L-EP Multiple Entry Power Connection with Junction Box

Multiple entry power connection with junction box

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JBM-100-E
JBM-100-EP
JBM-100-L-E
JBM-100-L-EP

PTB 20 ATEX 1008 U BAS 21 UKEX 0657 U	 II 2 G Ex eb mb IIC Gb  II 2 D Ex tb mb IIIC Db	
IECEX PTB 20.0014U		
	JBM-100-E(P): TC RU C-BE.MЮ62.B.00054/18 Ex e IIC Gb U Ex tb IIIC Db U Ex e mb IIC Gb U Ex tb mb IIIC Db U Ta -55°C...+56°C IP66 ООО “ТехИмпорт” JBM-100-L-E(P): TC RU C-BE.MЮ62.B.00054/18 Ex e IIC Gb U Ex tb IIIC Db U Ex e mb IIC Gb U Ex tb mb IIIC Db U Ta -55°C...+40°C IP66 ООО “ТехИмпорт”	
	Non lighted versions (1): Ex e IIC Gb Ex tD A21 IP66	Lighted versions (2): Ex e mb IIC Gb Ex tD mbD 21 IP66
	Ex eb IIC T* Gb Ex eb mb IIC T* Gb	
BAS 21 UKEX 0657 U	Ex eb mb IIC Gb Ex tb mb IIIC Db	
	Non lighted versions (1): CL I ZN 1 AEx eb IIC T* Gb ZN 21 AEx tb IIIC T*°C Db Ex eb IIC T* Gb Ex tb IIIC T*°C Db	Lighted versions (2): CL I ZN 1 AEx eb mb IIC T* Gb ZN 21 AEx mb tb IIIC T*°C Db Ex eb mb IIC T* Gb Ex mb tb IIIC T*°C Db

* For system Temperature Code, see heating cable or design documentation.

** Specific conditions for use may apply for ATEX/UKEX and IECEX.

1. Non lighted versions:

2. Lighted versions:

 **WARNING:** To prevent electrical shock, short circuit or arc ing, this prod uct must be in stalled correctly and water ingress must be avoid ed before and during the installation.

 **WARNING:** The purchaser should make the manufacturer aware of any external effects or aggressive substances that the equipment may be exposed to.
Before installing this product, read the installation instructions completely.

 **CAUTION:** Prolonged or repeated contact with the sealant in the core sealer may cause skin irritation.

Wash hands thoroughly. Overheating or burning the sealant will produce fumes that may cause polymer fume fever. Avoid contamination of cigarettes or tobacco. Consult MSDSVEN 0058 for further information.

Rated voltage	nVent RAYCHEM JBM-100-E(P): 480 Vac** JBM-100-L-E(P): 254 Vac
Ambient temperature	JBM-100-E(P): -55°C to +56°C** JBM-100-L-E(P): -40°C to +40°C, except for VPL: in that case ambient temperature can be up to +56°C.
Ingress protection	IP66

Maximum pipe temperature:

Heater type	T _{max} continuous	T _{max} intermittent 1000 h cumulative	T _{max} power off
BTV	65°C	85°C	—
QTVR	110°C	110°C	—
XTV	121°C	250°C	—
KTV	150°C	250°C	—
HTV	205°C	260°C	—
VPL	See tables below	—	260°C

VPL: maximum pipe temperature in dependence of heat type and voltage

Heater Type	230 Vac	254 Vac	277 Vac
5VPL2-CT	230°C	225°C	225°C
10VPL2-CT	210°C	200°C	195°C
15VPL2-CT	180°C	145°C	105°C
20VPL2-CT	150°C	Not allowed	

Heater Type	385 Vac	400 Vac	480 Vac
5VPL4-CT	230°C	230°C	230°C
10VPL4-C	215°C	215°C	205°C
15VPL4-C	195°C	195°C	160°C
20VPL4-C	150°C	150°C	150°C

VPL: Maximum pipe temperature in dependence

≤ 150°C	≤ 180°C	≤ 230°C
30 A	25 A	20 A
30 A	25 A	20 A
30 A	25 A	–
30 A	–	–

≤ 150°C	≤ 180°C	≤ 230°C
30 A	25 A	20 A
30 A	25 A	20 A
30 A	25 A	–
30 A	–	–

Specific conditions for use using ATEX/UKEX or IECEx approvals:

For ambient temperatures >+40°C:

Use a power cable with continuous temperature resistance of minimum +90°C

Use a metallic power cable gland approved for use in hazardous areas (for example GL-38-M25-METAL).

For voltages >254 Vac and BTV, QTVR, XTV, KTV or HTV heating cables:

Use a power cable with continuous temperature resistance of minimum +90°C

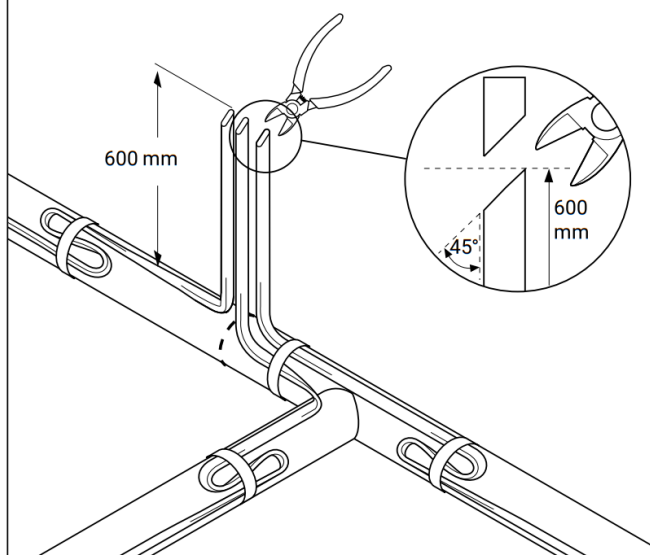
Use a metallic power cable gland approved for use in hazardous areas (for example GL-38-M25-METAL).

For pipe temperature > 150°C and XTV, KTV or HTV heating cables, the maximum operating current shall be reduced to maximum 20A.

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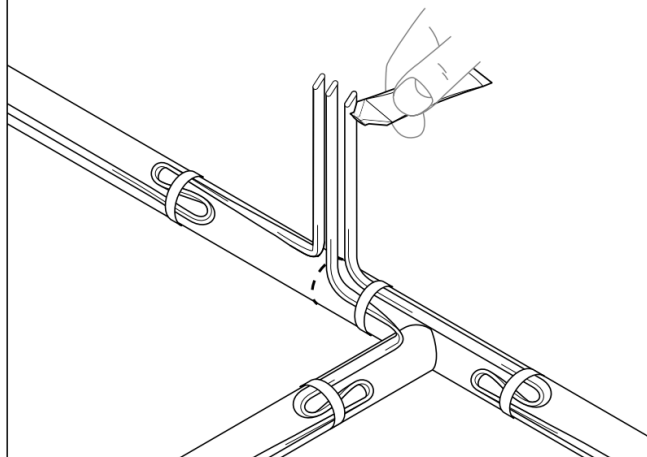
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BTV, QTVR, XTV, KTV, HTV



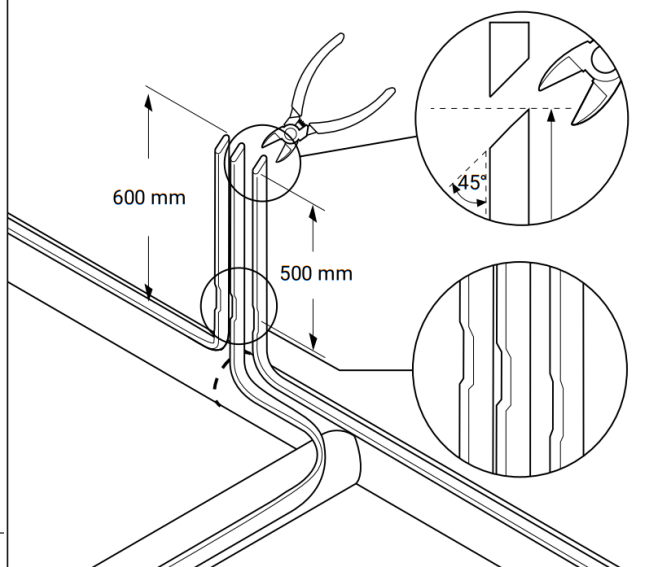
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BTV, QTVR, XTV, KTV, HTV, VPL



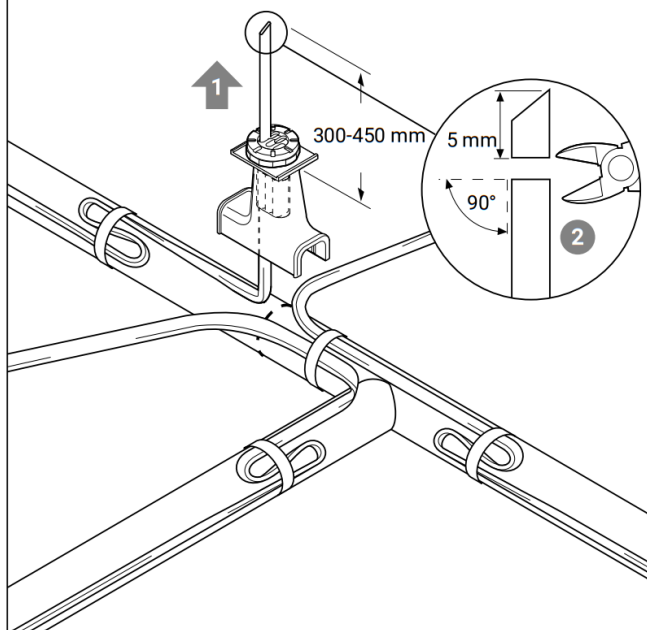
1B

VPL

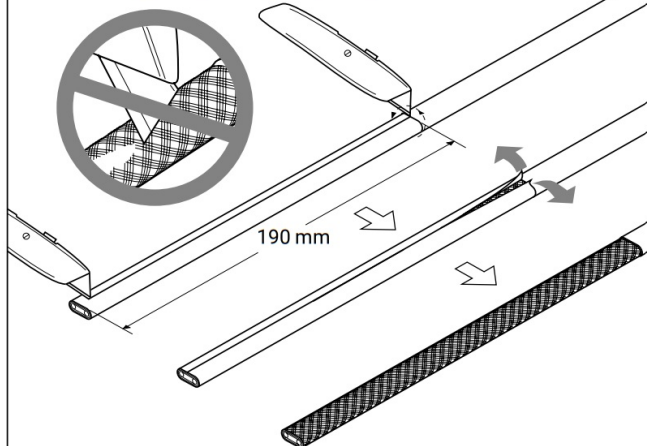


3

BTV, QTVR, XTV, KTV, HTV, VPL

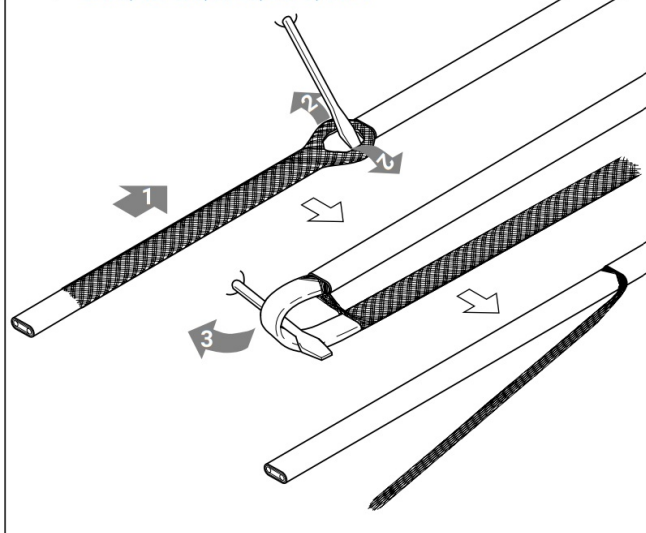


4 BTV, QTVR, XTV, KTV, HTV, VPL

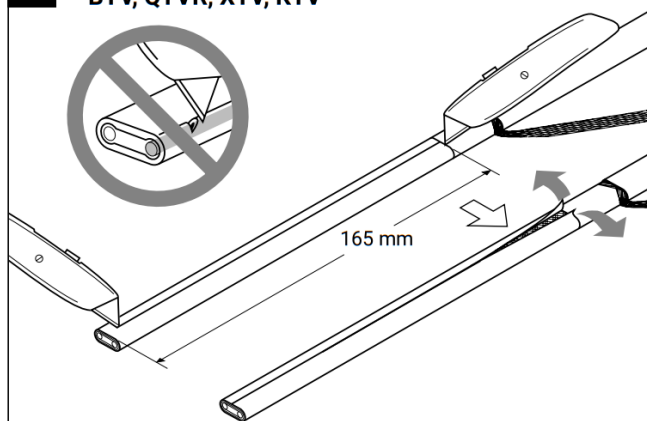


VPL → **8**

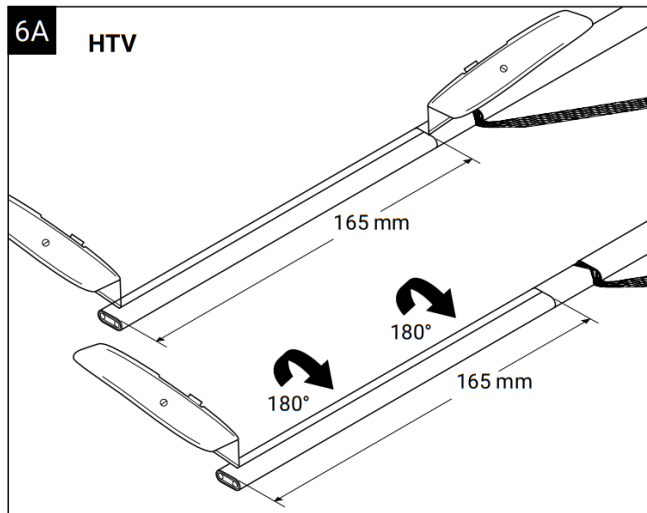
5 BTV, QTVR, XTV, KTV, HTV



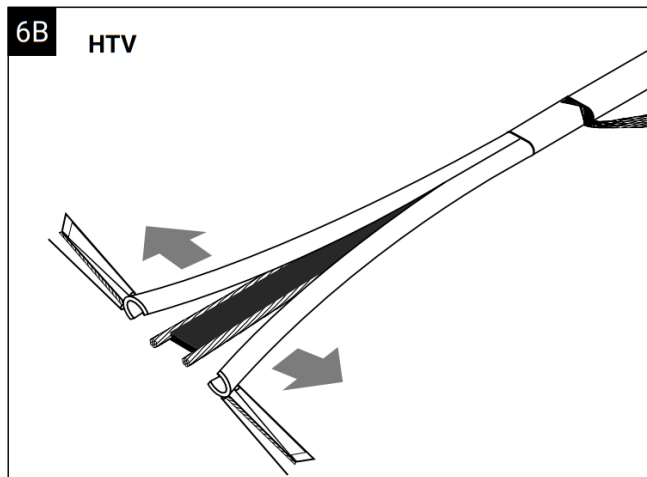
6 BTV, QTVR, XTV, KTV



6A HTV



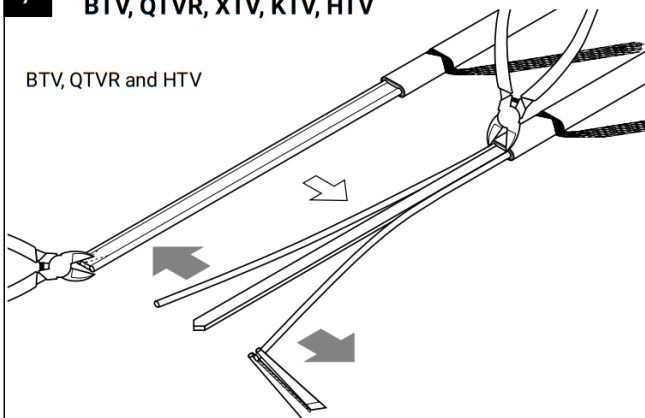
6B HTV



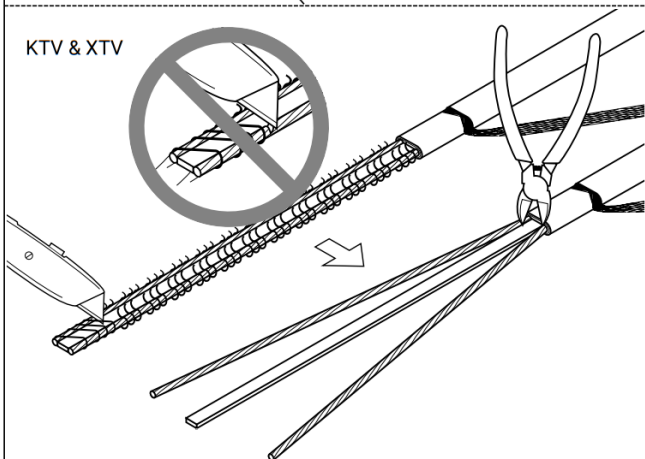
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BTV, QTVR, XTV, KTV, HTV

BTV, QTVR and HTV



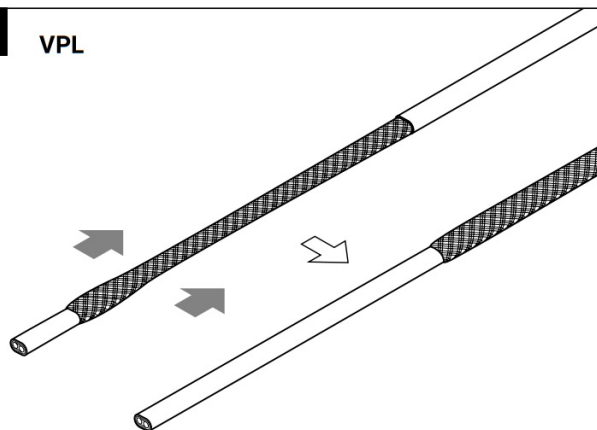
KTV & XTV



BTV, QTVR, XTV, KTV, HTV → 14

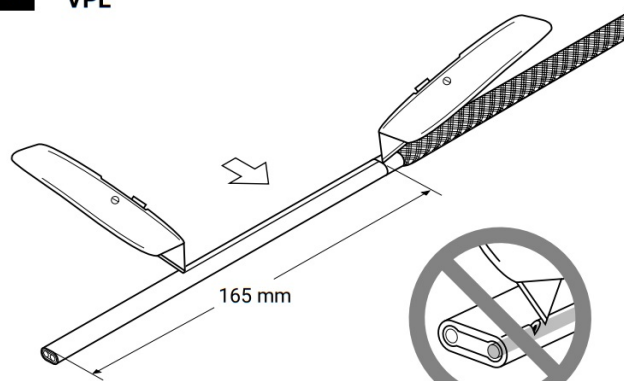
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VPL



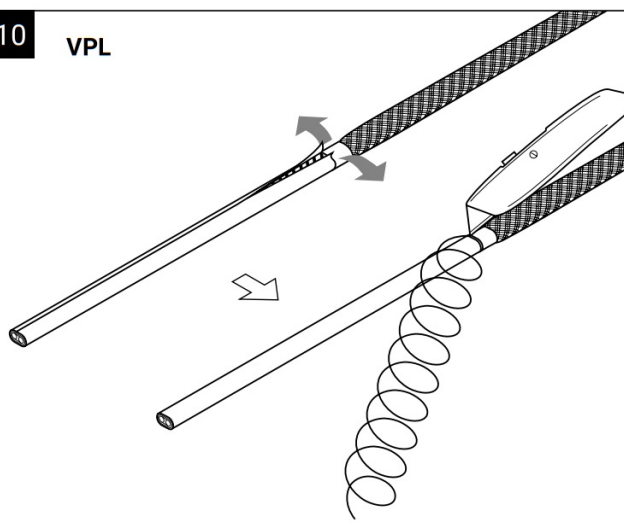
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VPL

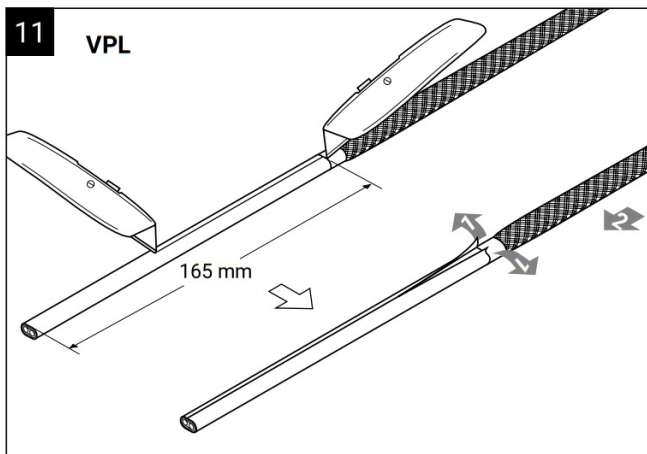


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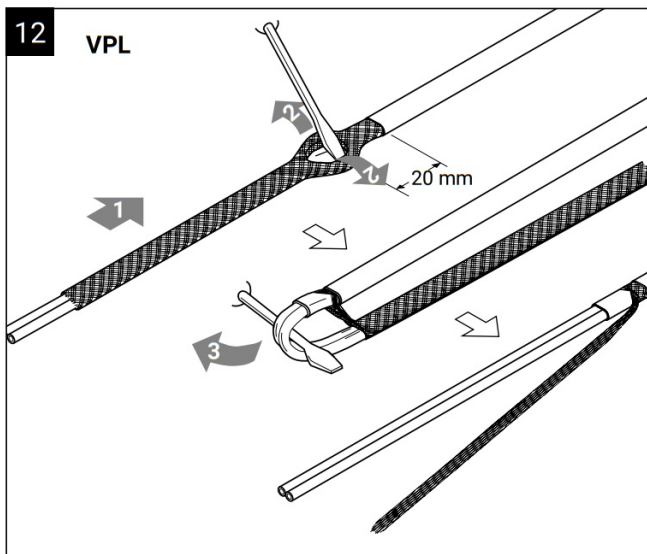
VPL



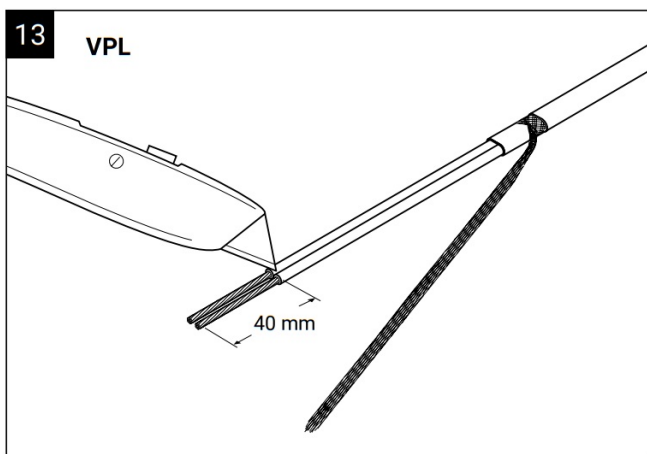
11 VPL



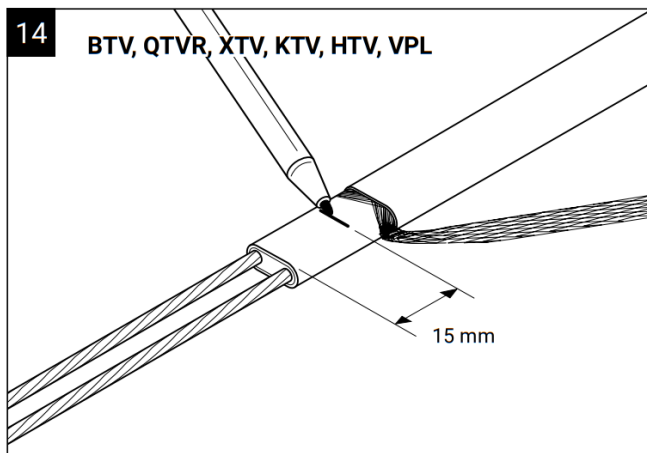
12 VPL



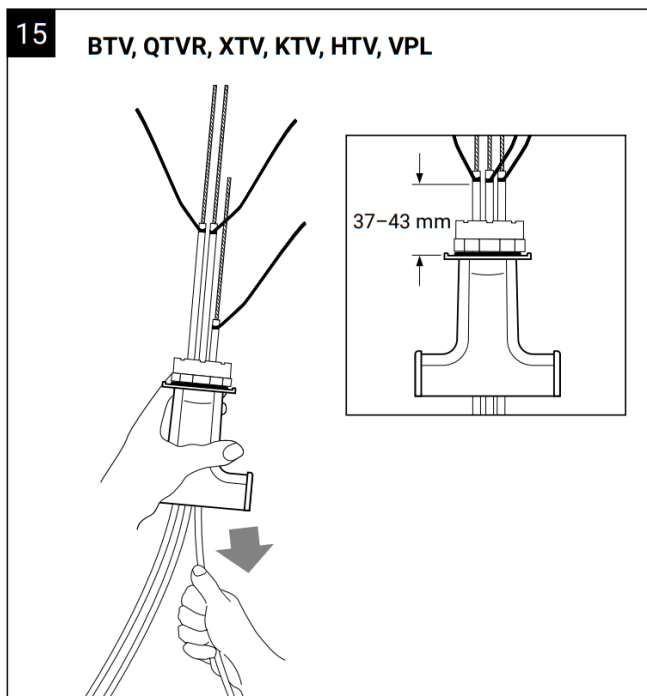
13 VPL



14 BTV, QTVR, XTV, KTV, HTV, VPL

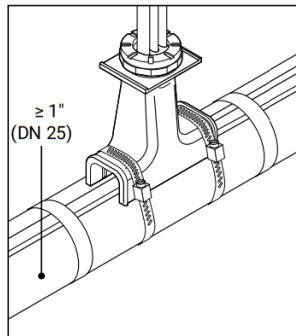
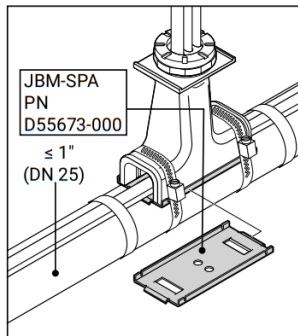
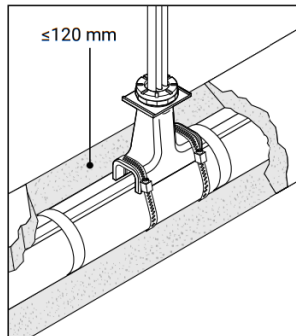
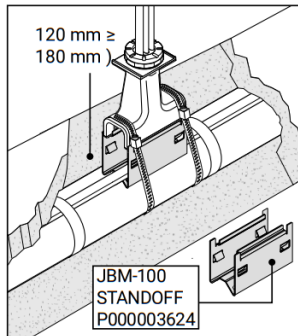
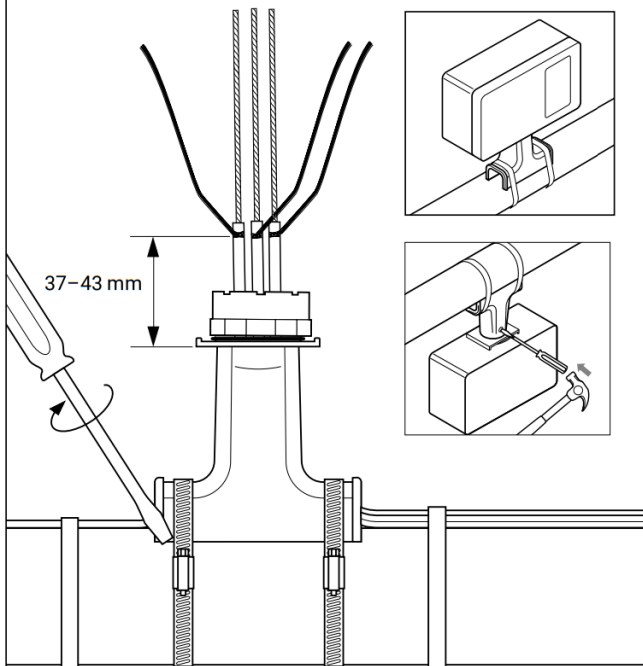


15 BTV, QTVR, XTV, KTV, HTV, VPL



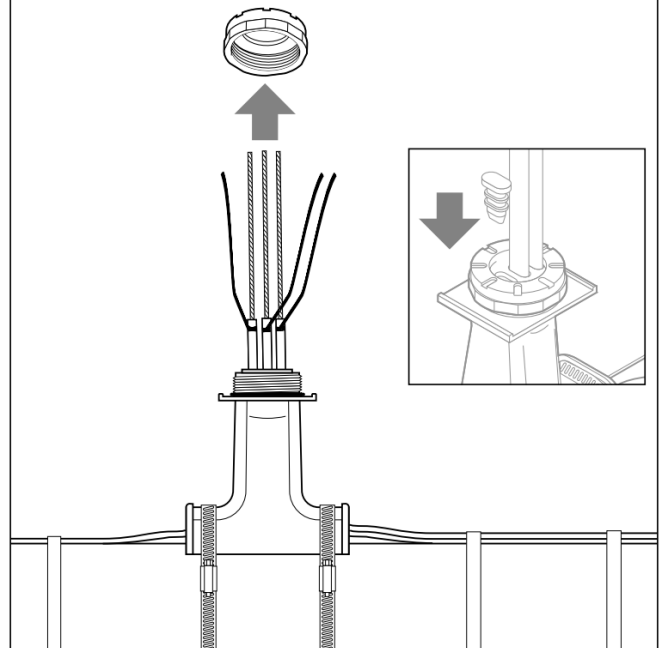
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BTV, QTVR, XTV, KTV, HTV, VPL



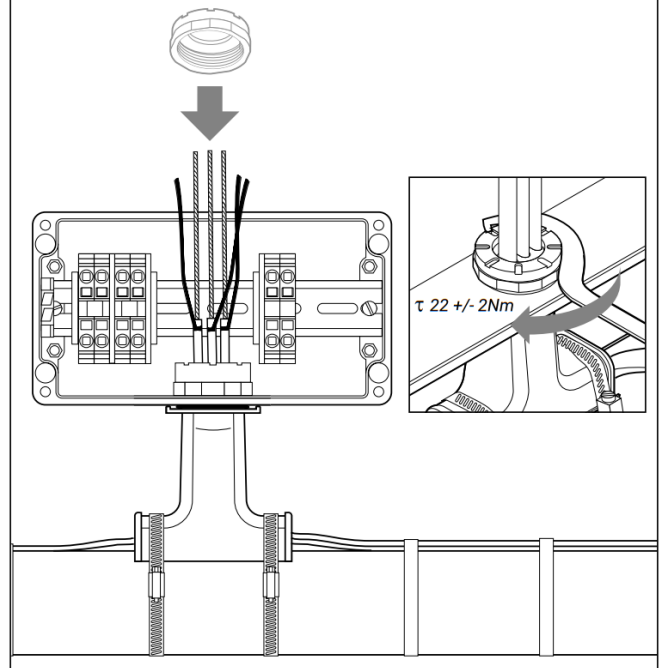
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BTV, QTVR, XTV, KTV, HTV, VPL



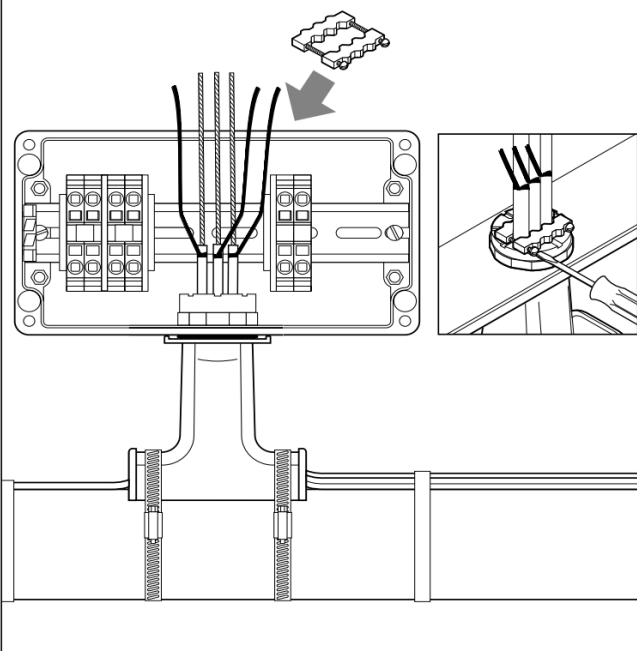
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BTV, QTVR, XTV, KTV, HTV, VPL



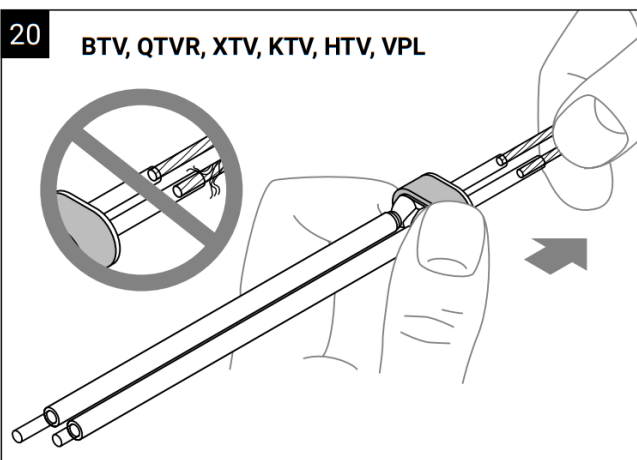
19

BTV, QTVR, XTV, KTV, HTV, VPL



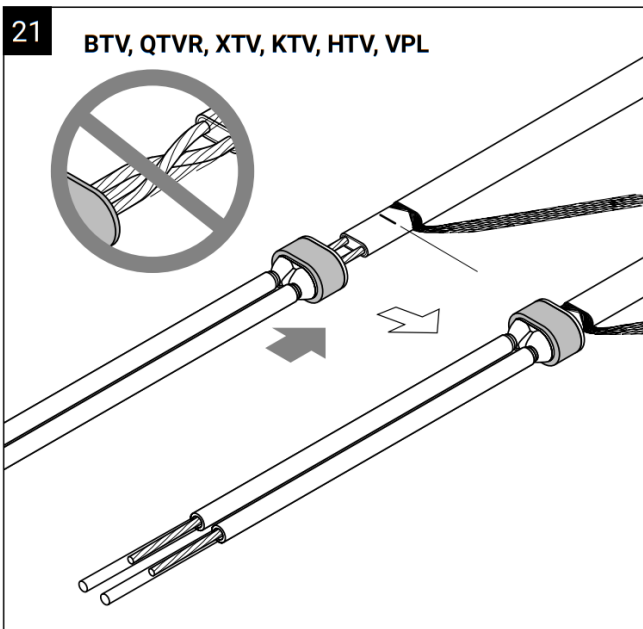
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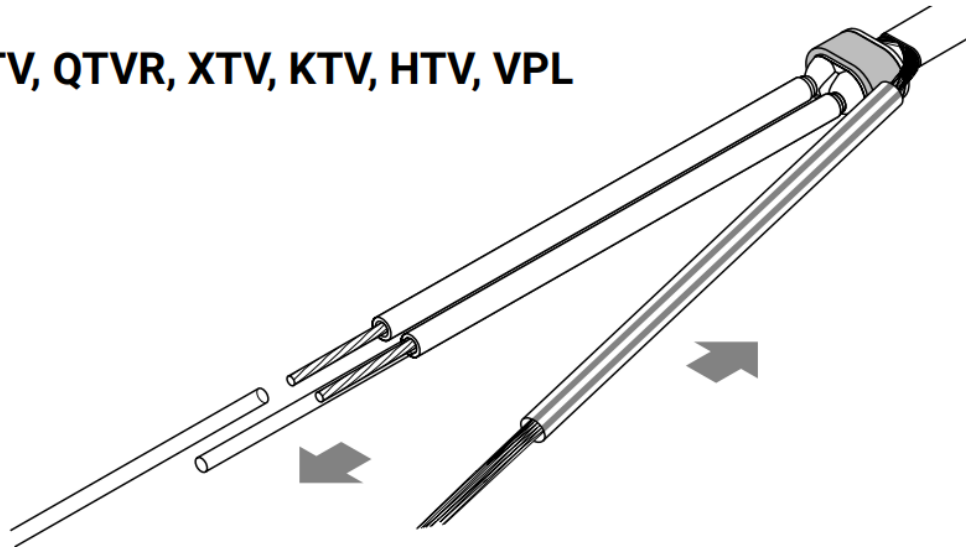
BTV, QTVR, XTV, KTV, HTV, VPL



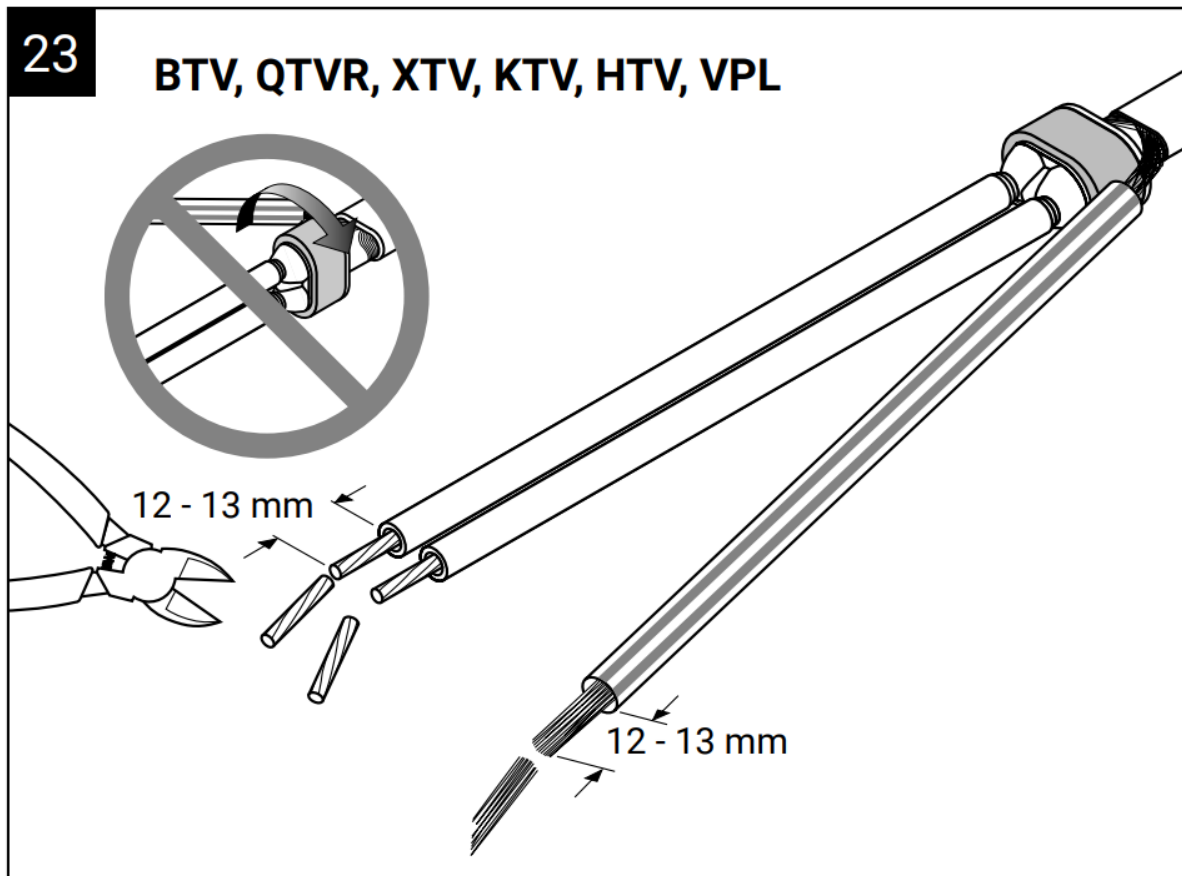
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BTV, QTVR, XTV, KTV, HTV, VPL

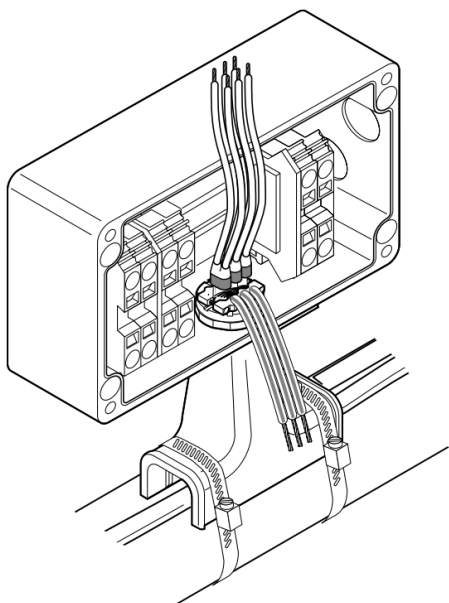


22**BTV, QTVR, XTV, KTV, HTV, VPL**

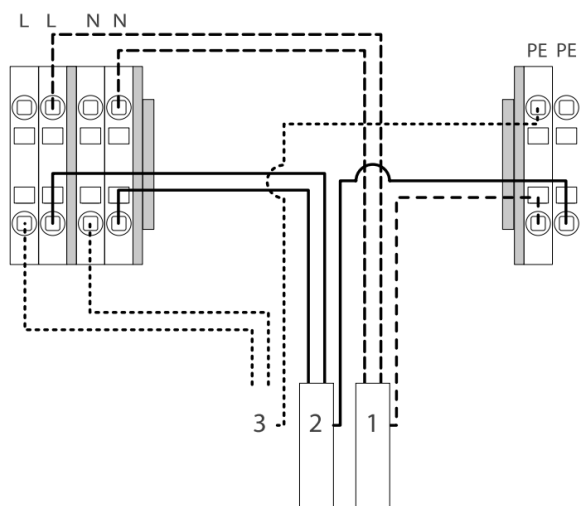
Remove the tubes and dispose of them in the core sealer plastic bag.

23**BTV, QTVR, XTV, KTV, HTV, VPL**

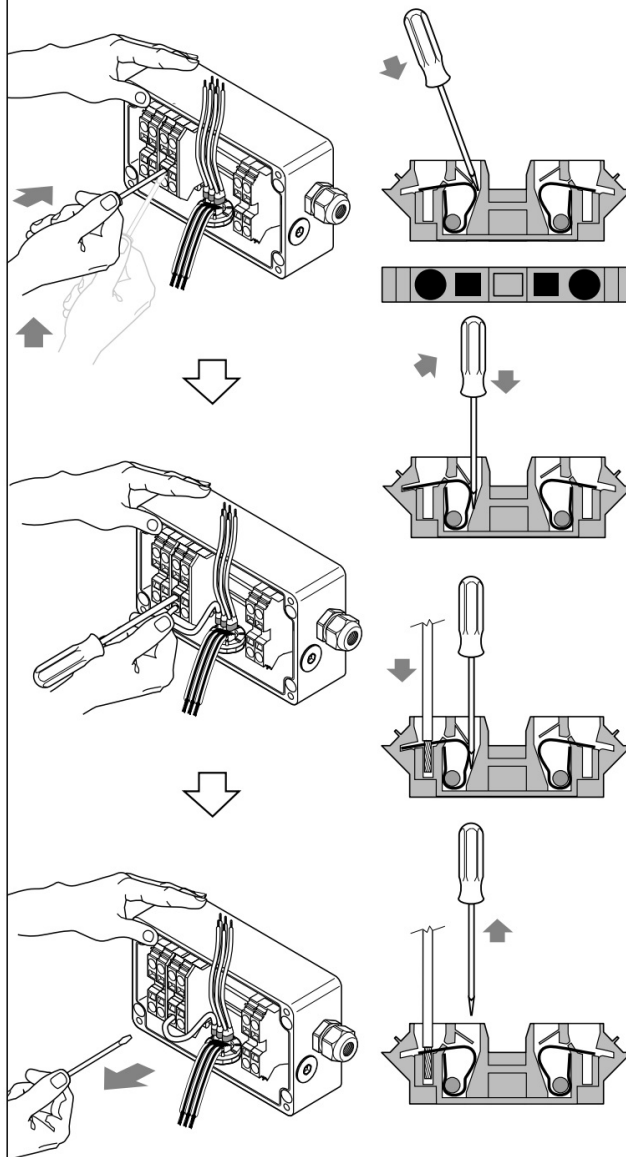
24 BTV, QTVR, XTV, KTV, HTV, VPL



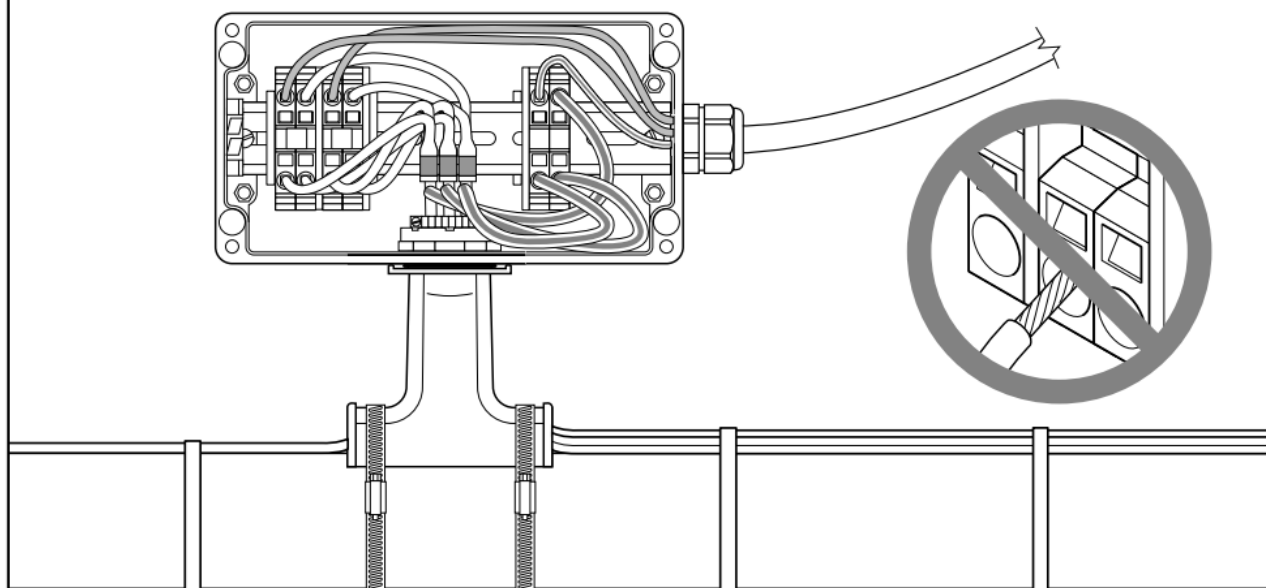
25 BTV, QTVR, XTV, KTV, HTV, VPL



26 BTV, QTVR, XTV, KTV, HTV, VPL

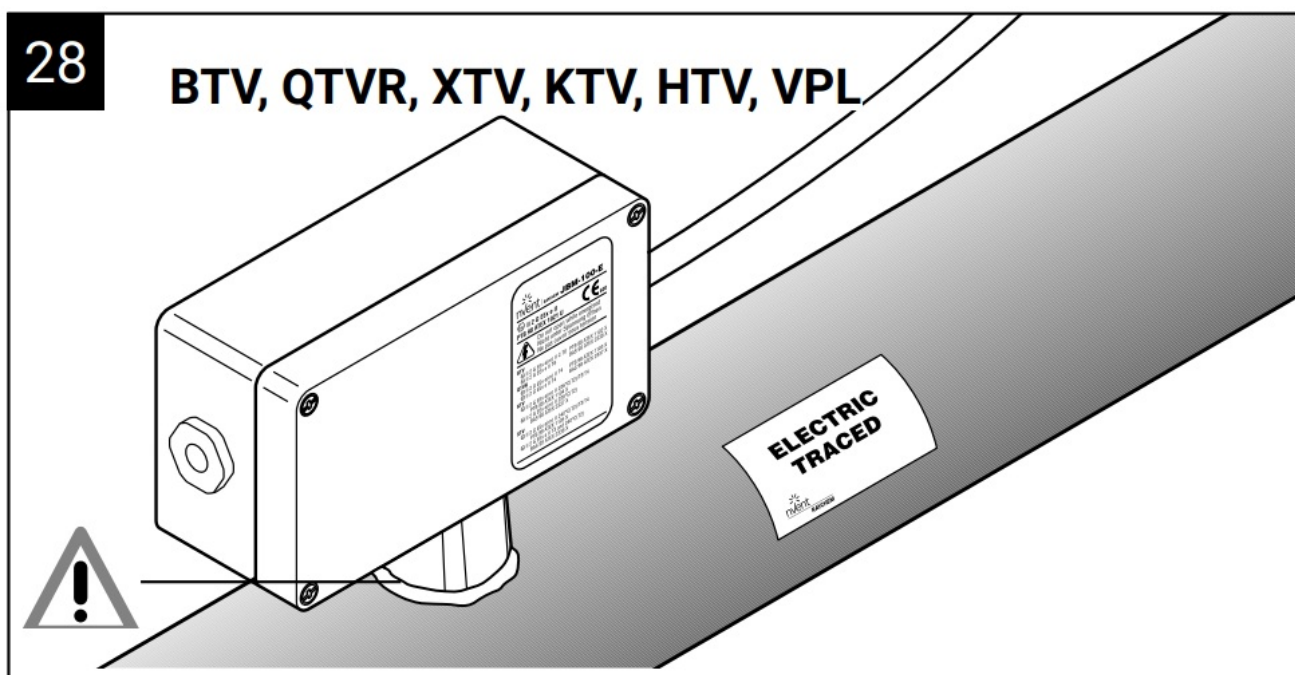


27

BTV, QTVR, XTV, KTV, HTV, VPL

Install power cable and gland. Pull in power and ground wires, strip off 13 mm of insulation and terminate. (For - EP version only: connect earth plate to ground according to local requirements).

28

BTV, QTVR, XTV, KTV, HTV, VPL

Install lid.

$\tau = 1.02$ to 1.47Nm

Apply insulation and cladding.



Weather seal the stand entry.

Leave these instructions with the end user for future reference.

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RAYCHEM-IM-INSTALL038-JBM100X-ML-2210

Documents / Resources



JBM-100-E
JBM-100-EP
JBM-100-L-E
JBM-100-L-EP

- ① Multiple entry power connection with junction box
- ② Anschlusskasten für ein bis drei Heizkabel
- ③ Boîte de raccordement à entrées multiples
- ④ Anschlüsse von ein bis drei Heizkabeln
- ⑤ Ansluttingskåpa med gjordsgodsing för flera värmekablar
- ⑥ Anslutningskåpa med gjordsgodsing för flere varmestaber
- ⑦ Tidalang til flere varmestaber inkl. montageplade
- ⑧ Spindel nVent ca. fyrtiendobles
- ⑨ Scatole di alimentazione fino a tre cavi riscaldati
- ⑩ Alimentación múltiple incluyendo caja de conexión
- ⑪ Zkrutov casák: - pro čtyřiceterný až třídesetivádr
- ⑫ Klemmenvereggen omfatter den nødvendige monteringsplade
- ⑬ Spindel nVent ca. 40-faldig
- ⑭ Spindel nVent ca. 40-faldig

[nVent RAYCHEM JBM-100-L-EP Multiple Entry Power Connection with Junction Box](#) [pdf] Instructions

JBM-100-E, JBM-100-EP, JBM-100-L-E, JBM-100-L-EP, JBM-100-L-EP Multiple Entry Power Connection with Junction Box, Multiple Entry Power Connection with Junction Box, Entry Power Connection with Junction Box, Connection with Junction Box, Junction Box

References

- [Electrical Heat Tracing | Heat Tracing | nVent RAYCHEM](#)

Manuals+