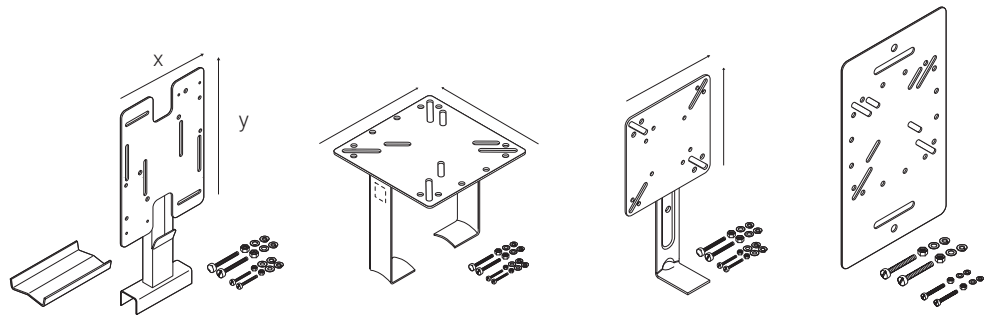


SUPPORTS

Support brackets are used to fix equipment such as thermostats or junction boxes on pipes or cable trays. Support brackets require additional pipe straps which have to be ordered separately.

They include a set of M6 and/or M4 fixing screws, nuts, washers and spring lock washers for the fixation of one junction box or thermostat. They are fabricated in stainless steel (SS304, and passivation)

The table below outlines the typical compatibility of each bracket with relevant equipment, for other equipment please contact nVent representative.

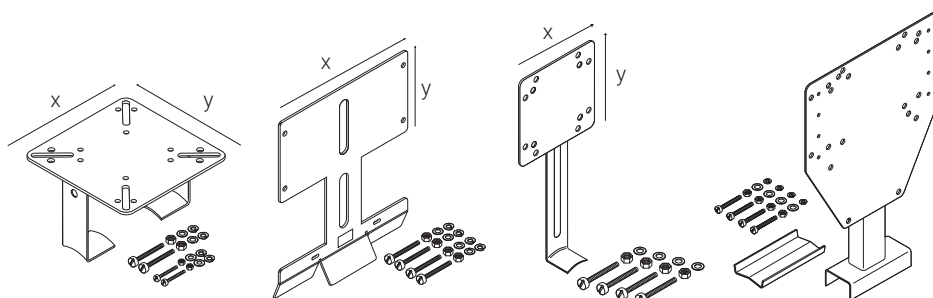


	SB-100 192932-000	SB-101 990944-000	SB-110 707366-000	SB-130** 1244-006602
AT-TS-13	X	X	X	X
AT-TS-14	X	X	X	X
JB-82	X	X	X	X
JB-EX-20(-EP)	X	X	X	X
JB-EX-21	X	X		X
JB-EX-21/35MM2				
JB-EX-25/35MM2				
JB-EX-32/35MM2				
JBU-100(-L)-E(P)	X	X		X
MONI-PT100-EXE		X		X
MONI-PT100-NH		X		X
MONI-PT100-4/20mA		X		X
RAYSTAT-CONTROL-10	X	X		X
RAYSTAT-ECO-10	X	X		X
RAYSTAT-EX-02	X	X	X	X
RAYSTAT-EX-03	X	X		X
RAYSTAT-EX-04	X	X		X
NGC-20-C(L)-E				
T-M-10-S/+x+y	X	X		X
T-M-20-S/+x+y(/EX)			X	

**Support bracket for fixation to cable trays

TECHNICAL DATA

	SB-100 192932-000	SB-101 990944-000	SB-110 707366-000	SB-130** 1244-006602
Plate size (mm) X x Y	160 x 230	160 x 160	130 x 130	180 x 315
Distance pipe-plate (mm)	100	160	100	N.A.
Number of pipe straps required	2	2	1	2
Max. pipe temperature (°C)	230	230	230	N.A.
Weight (kg)	0.70	0.59	0.40	0.62



	SB-111 579796-000	SB-120 165886-000	JB-SB-26 338265-000	SB-125 1244-00603
AT-TS-13	x			
AT-TS-14	x			
JB-82	x			x
JB-EX-20(-EP)	x			
JB-EX-21				
JB-EX-21/35MM2	x*			
JB-EX-25/35MM2	x*			
JB-EX-32/35MM2	x*			
JBU-100(-L)-E(P)				x
MONI-PT100-EXE	x		x	
MONI-PT100-NH	x		x	
MONI-PT100-4/20mA	x		x	
RAYSTAT-CONTROL-10				x
RAYSTAT-ECO-10				x
RAYSTAT-EX-02	x			x
RAYSTAT-EX-03				x
RAYSTAT-EX-04				x
NGC-20-C(L)-E		x		x
T-M-10-S/+x+y	x			
T-M-20-S/+x+y(/EX)		x		x

* Use 2 brackets per junction box

TECHNICAL DATA

Plate size (mm) X x Y	130 x 130	220 x 120	80 x 80	220 x 232
Distance pipe-plate (mm)	100	120	100	100
Number of pipe straps required	2	2	1	2
Max. pipe temperature (°C)	230	230	230	230
Weight (kg)	0.48	0.66	0.20	0.90

LABELS AND TAGS

Warning labels indicate the presence of electrical heat-tracing under the insulation of the pipe or other equipment. (min. of 1 label per 5 m of heat-tracing line). Also suitable for stainless steel pipes.



Language	EHT label reference	Product number
Arabic	LAB-ETL-ARA	036236-000
Bulgarian	LAB-I-01/bulgarian	1244-002183
Croatian	ETL-HR	938764-000
Czech	ETL-CZ	731605-000
Danish	ETL-DK	C97690-000
Dutch	LAB-I-23	749153-000
English	LAB-I-01	938947-000
Estonian/English	LAB-ETL-EST	1244-001415
Finnish	LAB-ETL-SF	756479-000
French	LAB-I-05	883061-000
German/French/Italian (230V)	LAB-ETL-CH	148648-000
German	ETL-G	597779-000
German/French/Italian/English (400V)	LAB-ETL-400	1244-007644
Hungarian	LAB-ETL-H	623725-000
Italian	ETL-I	C97688-000
Latvian	LAB-I-32	841822-000
Lithuanian	LAB-ETL-LIT	105300-000
Norwegian	ETL-N	C97689-000
Norwegian/English	LAB-ETL-NE	165899-000
Polish	ETL-PL	258203-000
Portuguese	LAB-ETL-POR	945960-000
Romanian	ETL-RO	902104-000
Russian	LAB-ETL-R	574738-000
Russian/English	LAB-I-01/E/R	1244-001060
Russian/English/Azeri	LAB-I-01/AZ/R/E	1244-012283
Slovenian	ETL-SLO	538156-000
Spanish	ETL-Spanish	C97686-000
Swedish	LAB-ETL-S	691703-000

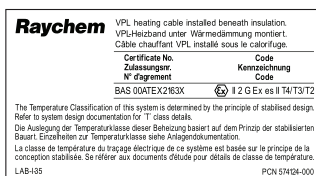


Language	Component label reference	Product number
English	LAB-I-02	774499-000
Russian/English	LAB-I-02/E/R	1244-001059
	LAB-ENDSEAL	146909-000
English	ETL-END-SEAL	103405-000
	LAB-SPLICE	007063-000

STABILIZED DESIGN LABELS

If compliance to the T-class or A.I.T. cannot be achieved by the unconditional T-rating of the heating cable, the hazardous area regulations require that cable sheath temperature is determined by the rules of stabilized design as per EN 60079-30 and the heating circuit is marked accordingly. The following labels are available for this purpose (min.1 label per heating circuit)

LAB-I-35



Stabilized design sticker. To be installed when power-limiting VPL heating cables are used in hazardous areas.

PN: 574124-000

Weight: 0,0015 kg

LAB-EX-XTV-KTV

Aluminum tag plate for XTV and KTV self-regulating heating cables. To be installed if T-class compliance was proven by stabilized design and not by unconditional T-rating.

PN: 1244-011961 Weight: 0.04 kg

LAB-EX-FXT

Aluminum tag plate. To be installed when parallel constant wattage FMT or FHT heating cables are used in hazardous areas.

PN: 1244-006953 Weight: 0.04 kg

PI-LABEL-EX

Aluminum tag plate. To be installed when series polymer insulated XPI & XPI-S heating cables are used in hazardous areas.

PN: 1244-006940 Weight: 0.04 kg

PI-LABEL-NH

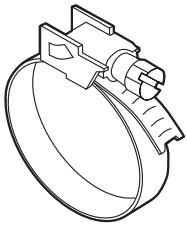
Aluminum tag plate. To be installed when series polymer insulated XPI & XPI-S heating cables are used non hazardous areas. This label is not mandatory but highly recommended for future reference.

PN: 1244-006941 Weight: 0.04 kg

PIPE STRAPS

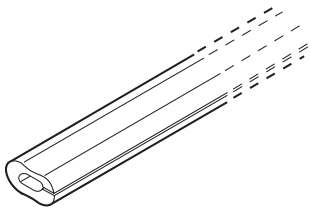
Metal straps for pipe mounting of integrated power connections, above the insulation tees and end seals as well as support brackets and the tubular insulation entry.

Banding: stainless steel



Pipe outer diameter in mm	(inches)	Pipe strap	PN (Weight)
20 - 47	(1/2" - 11/4")	PSE-047	700333-000 (0.017 kg)
40 - 90	(1 1/4" - 3")	PSE-090	976935-000 (0.024 kg)
60 - 288	(2" - 10")	PSE-280	664775-000 (0.052 kg)
60 - 540	(2" - 20")	PSE-540	364489-000 (0.052 kg)

PROTECTIVE GROMMET



G-02

Silicone grommet that protects the heating cable at sharp edges such as endplates of insulation cladding, flanges etc. It can be cut-to-length and resists temperatures up to 215°C.

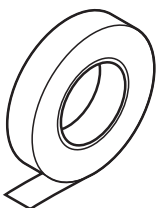
Sold in pieces of 1 m.

PN: 412549-000

Weight: 0.37 kg/m

FIXING MATERIALS

Self-adhesive tape for fixing the heating cables on pipes or other equipment.



GT-66

Glass cloth tape for attaching heating cable to pipe.

Not for stainless steel pipes or for installation temperatures below 5°C.

20 m per roll, 12 mm width.

PN: C77220-000

Weight: 0.053 kg

GS-54

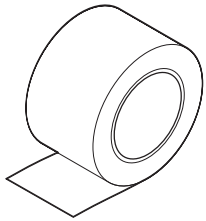
Glass cloth tape for attaching heating cable to pipe.

For stainless steel pipes or for any installation below 5°C.

16.5 m per roll, 12 mm width.

PN: C77221-000

Weight: 0.048 kg



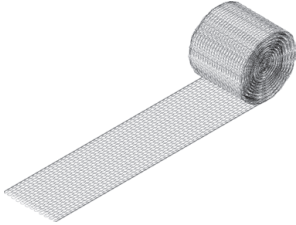
ATE-180

Aluminium tape* for attaching heating cables and thermostat sensors to pipes and tanks. Minimum installation temperature: 0°C. Also suitable for stainless steel pipes. 55 m per roll, 63.5 mm width.

PN: 846243-000

Weight: 0.84 kg

*Power output of selfregulating heating cables might increase when installed with aluminium tape or other heat transfer aids. Please use TraceCalc or contact nVent representative for further details.



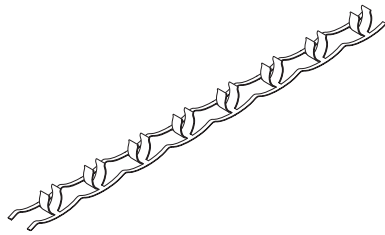
HWA-METAL-MESH-SS-50MM-10M

Stainless steel mesh for fixation of heating cables on valves, pumps or other odd-shaped surfaces. This mesh provides optimum contact and heat transfer between heating cables and heated equipment and can be used for exposure temperatures up to 400°C.

10 m per roll, 50 mm width.

PN: 1244-005772

Weight: 0.36 kg



HWA-PI-FIX-SS-XMM-10M

Stainless steel clip band to attach Polymer Insulated series heating cables to pipes. Clips at regular distances to allow for even heater spacing. Band available in two sizes for different diameter ranges.

10 m per roll.

For diameters up to 5 mm, HWA-PI-FIX-SS-5MM-10M

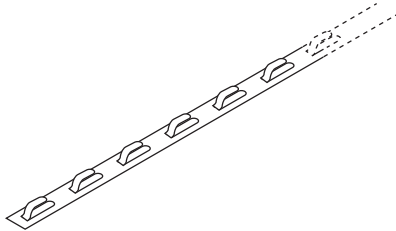
PN: 1244-007768

Weight: 0.32 kg

For diameters up to 8 mm, HWA-PI-FIX-SS-8MM-10M

PN: 1244-007769

Weight: 0.52 kg



HARD-SPACER-SS-25MM-25M

Stainless steel spacer for fixing the heating cable on walls, tanks and vessels, etc.

Width spacer: 12.5 mm.

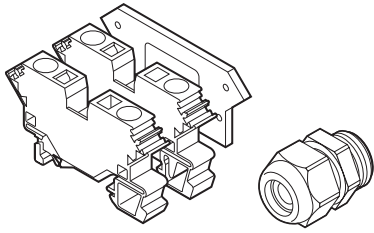
Fixing distance for cables: each 25 mm.

25 m per roll.

PN: 107826-000

Weight: 1.10 kg

TERMINALS



HWA-WAGO-TSTAT-KIT

Thermostat kit with supplementary terminals to connect thermostats of type RAYSTAT-EX-02 to the junction boxes JBS, JBM and JBU.

The kit includes 2 terminals Spring-type terminals (1 x L, 1 x PE), 1 power cable gland GL-36-M25, 1 end plate and 1 installation instruction.

PN: 966659-000

Weight: 0.073 kg

PTB 98 ATEX 3133 U
(Terminal)

⊕ II 2G Ex e II
⊕ II 2D

and

PTB 99 ATEX 3128 X
(Gland)

⊕ II 2G Ex e II
⊕ II 2D Ex tD A21 IP66

HWA-WAGO-PHASE

Phase/neutral terminal (Ex e), spare part for various junction boxes, max. 10 mm² solid/stranded.

PN: 633476-000

Weight: 0.019 kg

PTB 98 ATEX 3133 U

⊕ II 2G Ex e II
⊕ II 2D

HWA-WAGO-EARTH

Earth terminal (Ex e), spare part for various junction boxes, max. 10 mm² solid/stranded.

PN: 911505-000

Weight: 0.027 kg

PTB 98 ATEX 3133 U

⊕ II 2G Ex e II
⊕ II 2D

HWA-WAGO-ENDPLATE

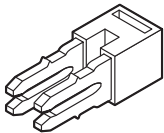
End plate for HWA-WAGO-..., 10 mm² terminals, spare part.

PN: 983674-000

Weight: 0.003 kg

PTB 98 ATEX 3133 U

⊕ II 2G Ex e II
⊕ II 2D



HWA-WAGO-JUMPER

Jumper to bridge HWA-WAGO-..., 10 mm² terminals, spare part.

PN: 550942-000

Weight: 0.0004 kg

PTB 98 ATEX 3133 U

⊕ II 2G Ex e II
⊕ II 2D

HWA-WDM-PHASE-35

Phase/neutral screw terminal (Ex e), spare part for JB-EX-xx/35MM2 junction boxes, max. 35 mm² solid/stranded.

PN: 1244-006990

Weight: 0.052 kg

KEMA 98 ATEX 1683 U

⊕ II 2G Ex e II
⊕ II 2D

HWA-WDM-EARTH-35

Earth screw terminal (Ex e), spare part for JB-EX-xx/35MM2 junction boxes, max. 35 mm² solid/stranded.

PN: 1244-006992

Weight: 0.077 kg

KEMA 98 ATEX 1683 U

⊕ II 2G Ex e II
⊕ II 2D

HWA-WDM-EARTH-10

Earth screw terminal (Ex e), spare part for JB-EX-xx/35MM2 junction boxes, max. 10 mm² solid/stranded.

PN: 1244-006992 Weight: 0.030 kg

KEMA 98 ATEX 1683 U 


HWA-WDM-JUMPER-35-2

Jumper to bridge two HWA-WDM-... 35 mm² terminals, spare part

PN: 1244-006995 Weight: 0.013 kg

KEMA 98 ATEX 1683 U 


HWA-WDM-JUMPER-35-3

Jumper to bridge three HWA-WDM-... 35 mm² terminals, spare part

PN: 1244-006996 Weight: 0.020 kg

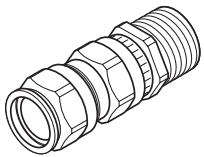
KEMA 98 ATEX 1683 U 


HWA-WDM-PLATE

End plate for HWA-WDM-... 35 mm² terminals, spare part

PN: 1244-007004 Weight: 0.005 kg

GLANDS



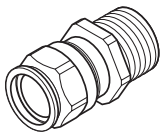
GL-33

3/4" NPT power cable gland for RAYSTAT-EX-02 (Ex d IIC)

Nickel plated brass, silicone grommet.

For use with armoured power cables with outer sheath diameter of 13.5 - 21 mm and inner sheath diameter of 10 - 15.5 mm.

PN: 1244-017517 Weight: 0.14 kg



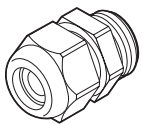
GL-34

3/4" NPT power cable gland for RAYSTAT-EX-02 (Ex d IIC)

Nickel plated brass, silicone grommet.

For use with non-armoured power cables with outer sheath diameter of 10 - 15.5 mm.

PN: 1244-017518 Weight: 0.08 kg



GL-36-M25

M25 power cable gland (Ex e)

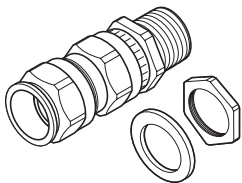
Polyamide.

For use with non-armoured power cables with outer diameter range 8-17,5 mm.

Temperature range: -20°C/+70°C.

Spare part for JBS-100, JBM-100 and JBU-100.

PN: 1244-019082 Weight: 0.016 kg



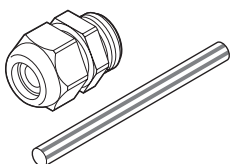
GL-38-M25-METAL

M25 power cable gland (Ex e II and Ex d IIC) for use with junction boxes with internal earth plate (-EP) or metal boxes.

Nickel plated brass, silicone grommet.

For use with armoured power cables with sheath diameter of 13.5 - 21 mm and inner sheath diameter 10 - 15.5 mm.

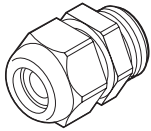
PN: 056622-000 Weight: 0.15 kg



GL-44-M20-KIT

M20 cable gland (Ex e), polyamide for use with PI cables with a diameter range of 5 - 13 mm. With green/yellow sleeve.

PN: 1244-000 848 Weight: 0.17 kg

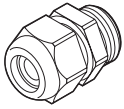


GL-45-M32

M32 cable gland (Ex e), polyamide for use with power cables with a diameter range of 12 - 21 mm.

PN: 1244-000 847

Weight: 0.028 kg

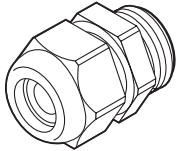


GL-50-M20

M20 cable gland (Ex e), polyamide for use with power cables with a diameter range of 5.5 - 13 mm.

PN: 1244-007000

Weight: 0.009 kg

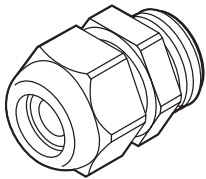


GL-51-M40

M40 cable gland (Ex e), polyamide for use with power cables with a diameter range of 17 - 28 mm.

PN: 1244-007003

Weight: 0.045 kg



GL-55-M25

M25 power cable gland (Ex e) Polyamide.

For use with non-armoured power cables with outer diameter range 8 - 15 mm.

Temperature range: -55°C/+70°C

Spare part for JBS-100, JBM-100 and JBU-100

PN 1244-019083

Weight: 0.016 kg

PLUGS



HWA-PLUG-M20-EXE-PLASTIC

M20 stopping plug Ex e.

Polyamide.

Spare parts for various junction boxes.

PN: 1244-000 845

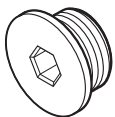
Weight: 0.003 kg

PTB 98 ATEX 3130

Ⓜ II 2G Ex e II

Ⓜ II 2D Ex tD A21 IP66

IECEX PTB 03.0000



HWA-PLUG-M25-EXE-PLASTIC

M25 stopping plug Ex e.

Polyamide.

Spare parts for JBS-100, JBM-100 and JBU-100.

PN: 434994-000

Weight: 0.007 kg

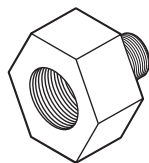
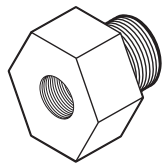
PTB 98 ATEX 3130

Ⓜ II 2G Ex e II

Ⓜ II 2D Ex tD A21 IP66

IECEX PTB 03.0000

ADAPTORS/REDUCERS



Prod Description	Male	Female	Hazardous area approved	Material	Extra accessories	Product Number (Weight)
REDUCER-M25/M20-EEXE	M25	M20	Ex e	Polyamide	None	1244-002089 (0.021 kg)
REDUCER-M32/M25-EEXE	M32	M25	Ex e	Polyamide	None	1244-000859 (0.009 kg)
REDUCER-M40/M32	M40	M32	Ex e	Polyamide	O-ring	1244-007007 (0.016 kg)
ADPT-PG16-M25-EEXE	M25	PG16	Ex e	Polyamide	O-ring	541892-000 (0.020 kg)
REDUCER-M25/20-EEXD	M25	M20	Ex d	Brass	O-ring	404287-000 (0.07 kg)
REDUCER-M25/20	M25	M20	Ex d	Brass	Locknut, Fibre washer, O-ring	630617-000 (0.07 kg)
REDUCER-M25/M20-EEXD-SS	M25	M20	Ex d	Stainless steel	O-ring	1244-002090 (0.028 kg)
REDUCER-1NPT/PG16-EEXD	1" NPT	PG16	Ex d	Stainless steel	None	414478-000 (0.10 kg)
REDUCER-1NPT/M25	1" NPT	M25	Ex d	Stainless steel	None	1244-000953 (0.55 kg)
REDUCER-M25/PG16-EEXE	PG16	M25	Ex e	Polyamide	O-ring	953780-000 (0.03 kg)
ADAPTOR-M20/25	M20	M25	Ex d	Brass	Locknut and O-ring	492799-000 (0.092 kg)
ADPT-M20/25-EEXD	M20	M25	Ex d	Brass	O-ring	684953-000 (0.09 kg)

APPROVALS

REDUCER-M25/20-EEXD

SIRA 00ATEX1094 Ⓢ I M2 II 2GD
 Ex d I/IIC Mb Gb Ex e I/IIC Mb Gb
 Ex tb IIIC Db IP6X

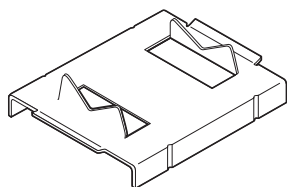
IECEX SIR 05.0042U

REDUCER-M25/PG16-EEXE

SIRA00ATEX3091 Ⓢ II 2GD
 Ex e IIC Gb
 Ex tb IIIC Db IP 6X

IECEX SIR 05.0042U

SMALL PIPE ADAPTORS



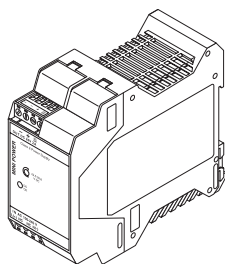
JBS-SPA

Small pipe adaptor required for pipes $\leq 1"$ (DN25),
applicable for JBS-100, E-100, E-100-L
E90515-000 (bag of 5 adaptors) Weight: 0.14 kg

JBM-SPA

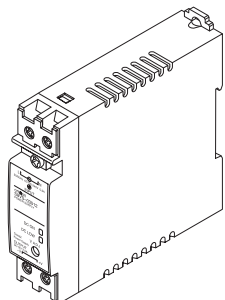
Small pipe adaptor required for pipes $\leq 1"$ (DN25),
applicable for JBM-100, T-100
D55673-000 (bag of 5 adaptors) Weight: 0.40 kg

POWER SUPPLY



MONI-RMC-PS24

Small pipe adaptor required for pipes $\leq 1"$ (DN25),
applicable for JBS-100, E-100, E-100-L
E90515-000 (bag of 5 adaptors) Weight: 0.14 kg



MONI-PS12

12 Vdc stabilized power supply
Wide range input (100 - 240 Vac) power supply to provide 12 Vdc input for the
nVent RAYCHEM NGC-30-CRM-E and RAYCHEM NGC-30-CRMS-E cards.
DIN 35 rail mountable.
PN: 1244-001505 Weight: 0.18 kg

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Our powerful portfolio of brands:

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