

SHORT FORM CATALOGUE | 2012-05



FANTINI COSMI ► INDUSTRIE

FANTINI TECHNOLOGY GROUP is European leader for measure, control and safety products for heating and ambient comfort.

The company, former T&G, belongs since December 2011 to the Fantini Cosmi Industrie group which includes 3 prestigious brands: Fantini Cosmi, Aspira and Fancos.

To the international markets, especially Italians and Europeans, to the industries, to the small and big distributors, FTG offers high quality products like: thermostats, pressure gauges, thermo-

manometers, thermometer, pressure switches, and a variety of products for industrial application. The products, often customized, are able to satisfy any need within the measure and control sector: the constant renewal of the device internally designed and manufactured is one of the priority for FTG who is always searching for innovative solutions and new methods in order to simplify the manufacturing process in combination with the reduction of costs, always attentive to the aesthetic design.



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# ROOM THERMOSTATS

## COLIBRÌ - Electromechanical room thermostat



■ Electromechanical room thermostats with gas filled sensing element, room temperature level adjustable by means of knob  $10 \div 30^{\circ}\text{C}$ .

■ Numerous variations available on request (24V or 230Vac power supply, reduced night temperature, cooling/heating, etc...).

MODEL	RANGE	DIFFERENTIAL	THERMOSTAT BODY ADMISSIBLE TEMPERATURE	SWITCH CONTACT RATING	CONTACT	PROTECTION LEVEL	CODE
COLIBRÌ 31	$10 \div 30^{\circ}\text{C}$	0,8 K	$-10 \div 50^{\circ}\text{C}$	10(2,5)A 250Vca.	SPDT	IP20	65C-00201-00A
COLIBRÌ 31 GOLD	$10 \div 30^{\circ}\text{C}$	0,8 K	$-10 \div 50^{\circ}\text{C}$	10-200mA	SPDT Gold	IP20	65C-00251-00A
COLIBRÌ 32	$10 \div 30^{\circ}\text{C}$	0,8 K	$-10 \div 50^{\circ}\text{C}$	10(2,5)A 250Vca.	SPDT led	IP20	65C-01331-00A
COLIBRÌ 33	$10 \div 30^{\circ}\text{C}$	0,8 K	$-10 \div 50^{\circ}\text{C}$	10(2,5)A 250Vca.	SPDT on/off switch -led	IP20	65C-02331-00A
COLIBRÌ 34	$10 \div 30^{\circ}\text{C}$	0,8 K	$-10 \div 50^{\circ}\text{C}$	10(2,5)A 250Vca.	SPDT summer/winter - led	IP20	65C-03331-00A

# ENCASED THERMOSTATS

- Derived from the range of capillary control thermostats and limiters with liquid filled sensing element, they are the accurate, reliable and easily set-up devices for the regulation and the control of thermal systems.
- They are available in the following versions: contact, with external probe, immersion, with perforated sheath.

## Contact control thermostat



- SPDT contacts: C/NO/NC.
- Contact Rating 16(4)A 250Vca.

- The thermostat is supplied completed with fasten spring for fixing it in position and with a mono-dose thermal paste bag (20g) (cod. 8047-02-0A - package of 100 bags of thermal paste).

ADJUSTMENT RANGE (°C)	TYPE OF SENSOR		TYPE OF ADJUSTMENT		PROTECTION LEVEL	MODEL	CODE
	liquid filled	bimetallic	internal	external			
0 ÷ 90		•		•	IP40	7A1	7A1-1R306-00A
0 ÷ 60		•		•			7A1-6R306-00A
0 ÷ 90		•	•		IP40	7A2	7A2-10306-00A
0 ÷ 60		•	•				7A2-60306-00A
10 ÷ 90	•			•	IP40	7C1	7C1-1R306-50A
5 ÷ 60	•			•			7C1-6R306-50A
10 ÷ 90	•		•		IP40	7C2	7C2-10306-50A
5 ÷ 60	•		•				7C2-60306-50A

Other temperature ranges and versions available on request.

## Contact limit thermostat



- SPDT contacts: C/NO/NC.
- Contact Rating 16(4)A 250Vca.
- Failure Safe function.

- The thermostat is supplied completed with fasten spring for fixing it in position and with a mono-dose thermal paste bag (20g) (cod. 8047-02-0A - package of 100 bags of thermal paste).

ADJUSTMENT RANGE (°C)	TYPE OF SENSOR		RESET	PROTECTION LEVEL	MODEL	CODE
	liquid filled	bimetallic				
30 ÷ 70	•		manual	IP40	9C2	9C2-70306-50A
65	•		manual	IP40	9C6	9C6-65306-50A

Other temperature ranges available on request.

## Capillary control thermostat



- SPDT contacts: C/NO/NC.
- Contact Rating 16(4)A 250Vca.

ADJUSTMENT RANGE [°C]	TYPE OF ADJUSTMENT		RESET	GOLD PLATED CONTACTS	BULB DIMENSIONS (mm)	CAPILLARY LENGTH (mm)	MODEL	CODE	
	internal	external						IP 43	IP 55
0 ÷ 60		•	automatic		Ø 6,5 x 73	1000	7K1	7K1-6R326-00A	7K1-6S326-00A
0 ÷ 90		•							7K1-1R326-00A
0 ÷ 90		•			Ø 5 x 95 SS*			-	7K1-1S326-01A
-35 ÷ 35		•			Ø 6,5 x 100	1500		7K1-FR336-00A	7K1-FS336-00A
0 ÷ 60	•				Ø 5 x 95 SS*		7K2	-	7K2-60326-01A
0 ÷ 60	•				Ø 6,5 x 73	1000		-	7K2-60326-00A

\* Stainless Steel version.

Other temperature ranges available on request.

## Capillary limit thermostat



- SPDT contacts: C/NO/NC.
- Contact Rating 16(4)A 250Vca.
- Failure Safe function.

ADJUSTMENT RANGE [°C]	TYPE OF ADJUSTMENT		RESET	GOLD PLATED CONTACTS	BULB DIMENSIONS (mm)	CAPILLARY LENGTH (mm)	MODEL	CODE	
	internal	external						IP 43	IP 55
100	fixed		manual		Ø 6,5 x 73	1000	9K6	-	9K6-99326-00A
90 ÷ 110	•				Ø 6,5 x 73	1000	9K2	-	9K2-11326-00A
SPECIAL MODEL - CHIMNEY LIMITER THERMOSTAT									
70 ÷ 110	•		manual	•	Ø 5 x 90	1500	9K2	-	9K2-Q0836-00A

Other temperature ranges available on request.

## Immersion control thermostat for direct mounting

- SPDT contacts: C/NO/NC.
- Contact Rating 16(4)A 250Vca.



ADJUSTMENT RANGE (°C)	TYPE OF ADJUSTMENT		RESET	CONNECTION	SHEATH LENGTH (mm)	PROTECTION LEVEL	MODEL	CODE
	internal	external						
0 ÷ 90		•	automatic	R 1/2	100	IP43	7P1	7P1-1R306-00A
0 ÷ 60		•						7P1-6R306-00A
0 ÷ 90	•						7P2	7P2-10306-00A
0 ÷ 60	•							7P2-60306-00A

Other temperature ranges available on request.  
Other sheath lengths available on request.

## Immersion limit thermostat

- SPDT contacts: C/NO/NC.
- Contact Rating 16(4)A 250Vca.
- Failure Safe function.



ADJUSTMENT RANGE (°C)	TYPE OF ADJUSTMENT	RESET	CONNECTION	SHEATH LENGTH (mm)	PROTECTION LEVEL	MODEL	CODE
100	fixed	manual	R 1/2	100	IP43	9P6	9P6-99306-00A
90 ÷ 100	internal					9P2	9P2-11306-00A

Other temperature ranges available on request.  
Other sheath lengths available on request.

## Double immersion thermostat for direct mounting

- SPDT contacts: C/NO/NC (x2).
- Contact Rating 16(4)A 250Vca.



T1 - CONTROL		T2 - CONTROL / LIMIT						RESET	CONNECTION	SHEATH LENGTH (mm)	PROT. LEVEL	MODEL	CODE
ADJUSTMENT RANGE (°C)	TYPE OF ADJUSTMENT	SET-POINT CALIBRATION (°C)	TYPE OF ADJUSTMENT		FUNCTION								
			internal	external	control	limiter							
0 ÷ 60	external	30 ÷ 120		•	•		automatic	R 1/2	100	IP43	8P1	8P1-BR606-00A	
0 ÷ 90				•	•							8P1-ER606-00A	
0 ÷ 60			•		•						8P4	8P4-BR606-00A	
0 ÷ 90			•		•							8P4-ER606-00A	
0 ÷ 60		100	fixed			•	manual				8P5	8P5-CR606-00A	
0 ÷ 90						•						8P5-OR606-00A	

Other temperature ranges available on request.  
Other sheath lengths available on request.

## Double hot air thermostat with perforated sheath

- SPDT contacts: C/NO/NC (x2).
- Contact Rating 16(4)A 250Vca.



T1 - CONTROL		T2 - CONTROL / LIMIT						RESET	SHEATH LENGTH (mm)	PROT. LEVEL	MODEL	CODE
ADJUSTMENT RANGE (°C)	TYPE OF ADJUSTMENT	ADJUSTMENT RANGE (°C)	TYPE OF ADJUSTMENT		FUNCTION							
	internal	external	internal	external	control	limiter						
0 ÷ 60		•	30 ÷ 120		•	•	automatic	∅ 16 x 250	IP43	8N1	8N1-BR6B6-00A	
	•			•		•					8N2	8N2-B06B6-00A
		•		•		•					8N4	8N4-BR6B6-00A
		•	100	fixed		•	manual				8N5	8N5-CR6B6-00A

Other temperature ranges available on request.  
Other sheath length available on request.

# Ambient thermostat in sealed container



- SPDT contacts: C/NO/NC.
- Contact Rating 16(4)A 250Vca.

- Provided with liquid filled sensing element and placed in IP55 housings, they are suitable for the temperature regulation of environments like greenhouses and livestock raising facilities.

TYPE OF ADJUSTMENT		ADJUSTMENT RANGE	SENSING ELEMENT	PROTECTION LEVEL	MODEL	CODE
internal	external knob	(°C)	stainless steel spiral bulb			
	•	0 ÷ 40	•	IP55	7R1	7R1-5R306-00A
	•	0 ÷ 60	•			7R1-6R306-00A
	•	-15 ÷ 40	•			7R1-XR306-00A
•		0 ÷ 40	•	IP55	7R2	7R2-50306-00B
•		0 ÷ 60	•			7R2-60306-00B

Other temperature ranges available on request.



# CAPILLARY THERMOSTATS

- Used within different fields for controlling temperatures, they are perfect for applications requiring reliability and accuracy.
- Depending on the application requirements they are available in versions with two or three contacts and in versions with liquid or gas filled sensing element.

## TG200 - Control thermostat, pin adjustment



- "Compensated" versions available on request
- Contact Rating 16(4)A 250Vca, with gold plated contacts 100mV  $\pm$  0,3A.
- Gas filled sensing element versions available on request (TG200-Z).
- Gold-plated contact versions available on request.

ADJUSTMENT RANGE/ CALIBRATION [°C]	CONTACTS		BULB		CAPILLARY		CODE
	SPST	SPDT	dimensions (mm)	material	length (mm)	material	
-35 ÷ 35		•	Ø 6,5 x 83	Cu	1500	Cu + PVC	711-F1338-00A
0 ÷ 40		•	Ø 6,5 x 100				711-51338-00A
0 ÷ 90		•	Ø 6,5 x 73				711-11338-00A*
0 ÷ 120		•				711-71338-00A	
0 ÷ 210		•	Ø 5 x 80	Stainless steel	Cu	711-G1339-00A	
0 ÷ 300		•	Ø 3 x 190	Stainless steel	Stainless steel	711-H1337-00A	
KIT - THERMOSTAT COMPLETED WITH FRAME, KNOB, SCREWS, KNOB BLOCKING SPRING - SINGLE PACKED							
0 ÷ 90		•	Ø 6,5 x 73	Cu	1500	Cu + PVC	711-11338-04A*
0 ÷ 120		•					711-71338-03A
SPECIAL VERSIONS FOR HOT WATER CLEANERS - WITH M14X1 CONNECTOR							
OFF/90		•	Ø 6 x 75	Cu	1500	Cu + PVC	711-X1338-02A
OFF/120		•					711-71338-02A
OFF/150		•					711-X1338-01A
SPECIAL VERSION FOR FRYER MACHINES - WITH G 1/4 CONNECTOR							
0/210	gold plated		Ø 5 x 100	Stainless steel	1000	Stainless steel	713-G1227-01A
SPECIAL VERSION 62 ÷ 82 - WITH G 1/4 CONNECTOR							
62 ÷ 82		•	Ø 6 x 80	Cu	1000	Cu + PVC	711-X7328-03A

\* ISPESL approved

## TG200 - Control thermostat, screwdriver adjustment



- "Compensated" versions available on request.
- Contact Rating 16(4)A 250Vca.
- Gas filled sensing element versions available on request (TG200-Z).
- Gold-plated contact versions available on request.

ADJUSTMENT RANGE/ CALIBRATION [°C]	CONTACTS		BULB		CAPILLARY		CODE
	SPST	SPDT	dimensions (mm)	material	length (mm)	material	
0 ÷ 90		•	Ø 6,5 x 73	Cu	1500	Cu + PVC	712-10338-00A*

\* ISPESL approved

## TG200 - Control thermostat, fixed calibration



- "Compensated" versions available on request.
- Contact Rating 16(4)A 250Vca.
- Gas filled sensing element versions available on request (TG200-Z).
- Gold-plated contact versions available on request.

ADJUSTMENT RANGE/CALIBRATION (°C)	CONTACTS		BULB		CAPILLARY		CODE
	SPST	SPDT	dimensions (mm)	material	length (mm)	material	
90		•	∅ 6,5 x 73	Cu	1500	Cu + PVC	716-90338-00A
100		•					716-99338-00A

## TG300 - Control thermostat, compact series



- Gold-plated contact versions available on request.
- Contact Rating 16(4)A 250Vca.

ADJUSTMENT RANGE/CALIBRATION (°C)	TYPE OF ADJUSTMENT/CALIBRATION			CONTACTS SPDT	BULB		CAPILLARY		CODE
	pin	screwdriver	fixed		dimensions (mm)	material	length (mm)	material	
-35 ÷ 35	•			•	∅ 6,5 x 83	Cu	1500	Cu + PVC	7A11-F1338-00A
0 ÷ 40	•			•	∅ 6,5 x 100				7A11-51338-00A
0 ÷ 90	•			•	∅ 6,5 x 73				7A11-11338-00A
50 ÷ 90		•		•					7A12-10338-00A
0 ÷ 210	•			•	∅ 5 x 80		Cu	7A11-G1339-00A	
0 ÷ 300	•			•	∅ 3 x 190	Stainless steel	Stainless steel	7A11-H1337-00A	
90			•	•	∅ 6,5 x 73	Cu	Cu + PVC	7A16-91338-00A	

## TG400 - Limit thermostat, fixed calibration with manual reset



- "Compensated" versions available on request
- Contact Rating 16(4)A 250Vca, with gold plated contacts 100mV ∓ 0,3A.
- Failure Safe function.
- Gold-plated contact versions available on request.

ADJUSTMENT RANGE/CALIBRATION (°C)	CONTACTS		BULB		CAPILLARY		CODE
	ON/OFF	ON/OFF + service	dimensions (mm)	material	length (mm)	material	
100		•	∅ 6,5 x 73	Cu	1500	Cu + PVC	971-99338-00A*
100	Gold plated						973-99238-00A

SPECIAL VERSION FOR FRYER MACHINES - WITH G 1/4 CONNECTOR

235	Gold plated		∅ 5 x 93	Stainless steel	1500	Stainless steel	973-2X227-02A**
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\* ISPEL approved

\*\* Failure Safe function not available.

## TG400 - Limit thermostat, screwdriver adjustment and manual reset



- "Compensated" versions available on request
- Contact Rating 16(4)A 250Vca, with gold plated contacts 100mV  $\approx$  0,3A.
- Failure Safe function.
- Gold-plated contact versions available on request.

ADJUSTMENT RANGE/ CALIBRATION [°C]	CONTACTS		BULB		CAPILLARY		CODE
	ON/OFF	ON/OFF + service	dimensions (mm)	material	length (mm)	material	
90 ÷ 110		•	Ø 6,5 x 73	Cu	1500	Cu + PVC	961-11338-00A
90 ÷ 110		Gold plated					963-11338-00A
70 ÷ 90		•					961-90338-00A
70 ÷ 90		Gold plated					963-90338-00A
FLUE GAS SAFETY LIMITER VERSION - WITH WASHER AND PLATE FOR BULB FIXING							
70 ÷ 110		Gold plated	Ø 5 x 90	Cu	1500	Cu + PVC	963-11338-20B

## TG400 - Limit thermostat, automatic reset



- "Compensated" versions available on request
- Contact Rating 16(4)A 250Vca, with gold plated contacts 100mV  $\approx$  0,3A.
- Failure Safe function.
- Gold-plated contact versions available on request.

ADJUSTMENT RANGE/ CALIBRATION [°C]	TYPE OF ADJUSTMENT/ CALIBRATION		CONTACTS		BULB		CAPILLARY		CODE
	screwdriver	fixed	ON/OFF	ON/OFF + service	dimensions (mm)	material	length (mm)	material	
100		•	Gold plated		Ø 6,5 x 73	Cu	1500	Cu + PVC	974-99238-00A
90 ÷ 110	•		•						962-11238-00A
90 ÷ 110	•		Gold plated						964-11238-00A

## TG500 - Limit thermostat, compact series



- Contact Rating 16(4)A 250Vca, with gold plated contacts 100mV  $\approx$  0,3A.
- Failure Safe function.
- Gold-plated contact versions available on request.

ADJUSTMENT RANGE/ CALIBRATION [°C]	TYPE OF ADJUSTMENT/ CALIBRATION		RESET	CONTACTS	BULB		CAPILLARY		CODE
	screwdriver	fixed	manual	ON/OFF + service	dimensions (mm)	material	length (mm)	material	
100		•	•	•	Ø 6,5 x 73	Cu	1500	Cu + PVC	9A71-99338-00A
100		•	•	Gold plated					9A73-99338-00A
90 ÷ 110	•		•	•					9A61-11338-00A
90 ÷ 110	•		•	Gold plated					9A63-11338-00A
70 ÷ 90	•		•	•					9A61-90338-00A
70 ÷ 90	•		•	Gold plated					9A63-90338-00A

# Knobs and frames for control thermostats



SPARE / ACCESSORY	PRINTING	PLASTIC COLOR	PRINTING COLOR	CODE
Knob	-35 ÷ 35	black	white	6960-01-4A
	0 ÷ 40			6960-02-4A
	0 ÷ 90			6960-03-4A
	40 ÷ 90			6960-04-4A
	0 ÷ 120			6960-05-4A
	0 ÷ 210			6960-19-4B
	0 ÷ 300			6960-07-4A
	band			6962-00-4A
	with index			6963-03-4A
	OFF ÷ 150			6960-10-4A
Frame	-	black	-	4550-50-0B
	-	chromate	-	4550-52-0A
Knob blocking spring	-	-	-	4555-40-0B
Knob blocking pin	-	-	-	4550-80-0A

## PRESSURE SWITCHES

- Employed for controlling pressure, they are suitable for various applications: hydraulic circuits, tanks, steam generators, etc ...

### TG600 - Pressure switch



- Gold-plated contact versions available on request.
- AVAILABLE CALIBRATIONS:  
1 +6 bar (high limit)  
0,3+ 1,5 bar (low limit)
- AVAILABLE CONNECTIONS:  
R 1/8 (ch 14) - G 1/4 (ch 17) + specials on request.
- ACCESSORIES:  
Tri-pole connector with cable, length 1m - cod. 4790-15-1A

FUNCTION		CALIBRATION SETPOINT (bar)	RESET		CONTACTS		CONNECTION	CODE
low limit	high limit		automatic	manual	SPST	SPDT		
•		0,5	•			•	R 1/4	250-05301-10A
•			•			•	R 1/8	251-05301-10A
	•	1	•			•	R 1/4	250-10300-10A
	•			•	•			280-35200-10A
	•	3,5		•	•		R 1/8	281-35200-10A
	•			•	•			

# CAPILLARY MEASUREMENT INSTRUMENTS

- Sturdiness and reading immediacy are the basic features of the wide range of instruments that satisfies any application requirements in the fields of heating, cooling and household appliances, where remote temperature and pressure metering is required.
- Sensing element: Bourdon spiral (thermometers) - Bourdon arch (pressure gauges).
- Available capillary length: 500 ÷ 3000 mm.
- Fastening by self-locking gills.
- Functional and artwork custom solutions are available.

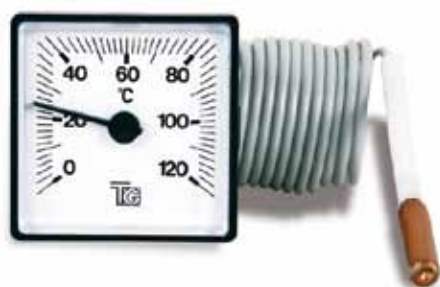
## Thermometer



- Fixing bracket available on request (only for models 110).
- Functional and artwork custom solutions are available.

DIAL			INSCRIPTION		FRAME	TEMP. RANGE	BULB		CAPILLARY		FLUSH WALL DIMENSION	CODE
shape	dimension (mm)	color	font	color	color	(°C)	dimension (mm)	material	length (mm)	material	(mm)	
○	Ø 42	□	DIN	■ ■	□	-40 ÷ 40	Ø 8,5 x 30	Cu	1500	Cu + PVC	Ø 37	113-00336-00A
○				■ ■	■ ■	0 ÷ 120	Ø 6,5 x 30					113-10135-00A
○	Ø 43			■ ■	■ ■	0 ÷ 120	Ø 6,5 x 30					115-10135-00A
○	Ø 57			■ ■	□	-40 ÷ 40	Ø 8,5 x 30				Ø 52	110-00336-00A
○				■ ■	■ ■	0 ÷ 120	Ø 6,5 x 30					110-10135-00A
○				■ ■	■ ■	50 ÷ 350	Ø 3 x 80	Stainless steel			Stainless steel	110-40135-00A

## Thermometer



- Functional and artwork custom solutions are available.

DIAL			INSCRIPTION		FRAME	TEMP. RANGE	BULB		CAPILLARY		FLUSH WALL DIMENSION	CODE
shape	dimension (mm)	color	font	color	color	(°C)	dimension (mm)	material	length (mm)	material	(mm)	
□	42 x 42	□	DIN	■ ■	□	-40 ÷ 40	Ø 8,5 x 30	Cu	1500	Cu + PVC	Ø 37	133-00336-00A
□				■ ■	■ ■	0 ÷ 120	Ø 6,5 x 30					133-10135-00A
□	48 x 48			■ ■	□	-40 ÷ 40	Ø 8,5 x 30				45 x 45	130-00336-00A
□				■ ■	■ ■	0 ÷ 120	Ø 6,5 x 30					130-10135-00A

# Thermometer



■ Fixing bracket available on request (only for models 150).

■ Functional and artwork custom solutions are available.

DIAL			INSCRIPTION		FRAME	TEMP. RANGE	BULB		CAPILLARY		FLUSH WALL DIMENSION	CODE						
shape	dimension (mm)	color	font	color	color	(°C)	dimension (mm)	material	length (mm)	material	(mm)							
□	14 x 68	□	DIN	■	■	□	-40 ÷ 40	∅ 8,5 x 30	Cu	1500	Cu + PVC	11 x 62	171-05336-00A					
				■	■	□	0 ÷ 120	∅ 6,5 x 30					171-10135-00A					
■	■			□	-40 ÷ 40	∅ 8,5 x 30	181-05336-00A											
■	■			□	0 ÷ 120	∅ 6,5 x 30												
□	14 x 70			□	DIN	■	■	□				-40 ÷ 40	∅ 8,5 x 30	Cu	1500	Cu + PVC	25 x 58	150-05336-00A
						■	■	□				0 ÷ 120	∅ 6,5 x 30					150-10135-00A

# Pressure Gauge



■ Fixing bracket available on request (only for models 320).  
 ■ Polythene capillary versions available on request.

■ Functional and artwork custom solutions are available.

DIAL			INSCRIPTION		FRAME	CONNECTION	CAPILLARY		FLUSH WALL DIMENSION	CODE	
shape	dimension (mm)	color	font	color	color		length (mm)	material	(mm)	0 ÷ 4 bar	0 ÷ 6 bar
○	∅ 42	□	DIN	■	■	G 1/4	1500	Cu + PVC grey	∅ 37	3A13-70135-00A	3A13-80135-00A
○	∅ 43								∅ 40	3A50-70135-00A	3A50-80135-00A
○	∅ 57								∅ 52	3A20-70135-00A	3A20-80135-00A

# Pressure Gauge



■ Polythene capillary versions available on request.

■ Functional and artwork custom solutions are available.

DIAL			INSCRIPTION		FRAME	CONNECTION	CAPILLARY		FLUSH WALL DIMENSION	CODE	
shape	dimension (mm)	color	font	color	color		length (mm)	material	(mm)	0 ÷ 4 bar	0 ÷ 6 bar
□	42 x 42	□	DIN	■	■	G 1/4	1500	Cu + PVC grey	∅ 37	343-70135-20A	343-80135-20A
□	48 x 48								45 x 45	340-70135-20A	340-80135-20A

# Thermomanometer



■ Fixing bracket available on request (only for models 520).

■ Functional and artwork custom solutions are available.

DIAL		INSCRIPTION		FRAME	TEMP. RANGE (°C)	PRESS. RANGE (bar)	BULB		CAPILLARY		CONNECTION	FLUSH WALL DIMENSION (mm)	CODE					
shape	dimension (mm)	color	font	color			color	dim. (mm)	material	length (mm)				material				
○	Ø 43				0 ÷ 120	0 ÷ 4	Ø 6,5 x 30	Cu	1500	Cu + PVC grey	G 1/4	Ø 40	560-70135-00A					
○	Ø 57	□	DIN	■									■	0 ÷ 6	1000	M14x1	Ø 52	520-70135-00A
○																		520-80135-00A
○												521-80125-01A						

# Thermomanometer



■ Functional and artwork custom solutions are available.

DIAL		INSCRIPTION		FRAME	TEMP. RANGE (°C)	PRESS. RANGE (bar)	BULB		CAPILLARY		CONNECTION	FLUSH WALL DIMENSION (mm)	CODE
shape	dimension (mm)	color	font	color			color	dim. (mm)	material	length (mm)			
□	78 x 42	□	DIN	■	■	0 ÷ 120	Ø 6,5 x 30	Cu	1500	Cu + PVC grey	G 1/4	73 x 37	540-70135-00A
□													540-80135-00A

# Accessories for capillary thermometers, manometers, thermomanometers

DESCRIPTION		CODE
<b>CONNECTORS</b>		
Connectors M14x1 F	Universal connections for all capillary pressure gauges models, available as an alternative to the thread 1/4 Gas.	Female connector with longitudinal milling
Connectors M14x1 M		Male connector with longitudinal milling
<b>CHECK VALVES</b>		
Valve 1/2 M - 1/4 F	Connections 1/2 - 14NPT x G 1/4 female	4700-00-1A
Valve 1/2 M - M14x1 F	Connections 1/2 - 14NPT x M14x1 female	4700-01-8A
Valve 1/4 M - 1/4 F	Connections R 1/4 maschio x G 1/4 female	4700-10-9A
<b>BRACKETS AND NUT</b>		
Bracket 520	To strengthen the fixing to the panel of the measurement instruments, in addition to the fastening by self-locking gills.	For thermomanometers series 520
Bracket 110		For thermometers series 110 and pressure gauges series 320
Bracket 150		For thermometers series 150
Nut M6		For bracket fixing

# DIRECT CONNECTED EQUIPMENT

## Pressure gauges with red index



- Sensing element - Phosphor bronze Bourdon tube
- Class precision 2,5
- Brass movement
- Brass connection

CONNECTOR POSITION	DIAL		CONNECTION	CASE	INDEX	POINTER	TRANSPARENT WINDOW	SCALE (bar)	CODE	
	Ø (mm)	material								
LOWER MOUNT	50	ABS	G 1/4 B	ABS	ABS	Al	Polystirene	0 ÷ 4	3A1-24520-00A	
								0 ÷ 6	3A1-25520-00A	
								0 ÷ 10	3A1-26520-00A	
								0 ÷ 16	3A1-27520-00A	
								0 ÷ 25	3A1-28520-00A	
	63	ABS	G 1/4 B	ABS	ABS	Al	Polystirene	0 ÷ 1,6	3A1-32520-00A	
								0 ÷ 2,5	3A1-33520-00A	
								0 ÷ 4	3A1-34520-00A	
								0 ÷ 6	3A1-35520-00A	
								0 ÷ 10	3A1-36520-00A	
								0 ÷ 16	3A1-37520-00A	
	80	Al	G 3/8 B	Coated stainless steel	Al	Al	Glass	0 ÷ 1,6	3B1-42421-00A	
								0 ÷ 2,5	3B1-43421-00A	
								0 ÷ 4	3B1-44421-00A	
								0 ÷ 6	3B1-45421-00A	
								0 ÷ 10	3B1-46421-00A	
								0 ÷ 16	3B1-47421-00A	
	100	Al	G 1/2 B	ABS	Al	Al	Polystirene	0 ÷ 1,6	3A1-52530-00A	
								0 ÷ 2,5	3A1-53530-00A	
								0 ÷ 4	3A1-54530-00A	
								0 ÷ 6	3A1-55530-00A	
								0 ÷ 10	3A1-56530-00A	
								0 ÷ 16	3A1-57530-00A	
								0 ÷ 25	3A1-58530-00A	
								0 ÷ 40	3A1-59530-00A	
	0 ÷ 60	3A1-5A530-00A								
	CENTER BACK MOUNT	50	ABS	G 1/4 B	ABS	ABS	ABS	Polystirene	0 ÷ 4	3A2-24520-00A
									0 ÷ 6	3A2-25520-00A
0 ÷ 10									3A2-26520-00A	
0 ÷ 16									3A2-27520-00A	
0 ÷ 25									3A2-28520-00A	
63		ABS	G 1/4 B	ABS	ABS	ABS	Polystirene	0 ÷ 4	3A2-34520-00A	
								0 ÷ 6	3A2-35520-00A	
								0 ÷ 10	3A2-36520-00A	
								0 ÷ 16	3A2-37520-00A	
								0 ÷ 25	3A2-38520-00A	



# Dual scale pressure gauges - bar/psi



- Sensing element - Phosphor bronze Bourdon tube
- Class precision 2,5
- Brass movement
- Brass connection

CONNECTOR POSITION	DIAL		CONNECTION	CASE	POINTER	TRANSPARENT WINDOW	SCALE		CODE
	Ø (mm)	material					(bar)	(psi)	
LOWER MOUNT	40	ABS	G 1/8 B	ABS	Al	Polystyrene	0 ÷ 4	0 ÷ 60	3A1-14310-00A
							0 ÷ 6	0 ÷ 85	3A1-15310-00A
							0 ÷ 10	0 ÷ 145	3A1-16310-00A
	50	ABS	G 1/4 B	ABS	Al	Polystyrene	0 ÷ 4	0 ÷ 60	3A1-24320-00A
							0 ÷ 6	0 ÷ 85	3A1-25320-00A
							0 ÷ 10	0 ÷ 145	3A1-26320-00A
	63	ABS	G 1/4 B	Coated stainless steel	Al	Polystyrene	0 ÷ 1,6	0 ÷ 23	3A1-32320-00A
							0 ÷ 2,5	0 ÷ 36	3A1-33320-00A
							0 ÷ 4	0 ÷ 60	3A1-34320-00A
							0 ÷ 6	0 ÷ 85	3A1-35320-00A
							0 ÷ 10	0 ÷ 145	3A1-36320-00A
	100	Al	G 3/8 B	ABS	Al	Glass	0 ÷ 1,6	0 ÷ 23	3B1-52330-00A
							0 ÷ 2,5	0 ÷ 36	3B1-53330-00A
							0 ÷ 4	0 ÷ 60	3B1-54330-00A
							0 ÷ 6	0 ÷ 85	3B1-55330-00A
							0 ÷ 10	0 ÷ 145	3B1-56330-00A
0 ÷ 16							0 ÷ 230	3B1-57330-00A	
0 ÷ 25							0 ÷ 360	3B1-58330-00A	
0 ÷ 40							0 ÷ 600	3B1-59330-00A	
CENTER BACK MOUNT	40	ABS	G 1/8 B	ABS	ABS	Polystyrene	0 ÷ 4	0 ÷ 60	3A2-14310-00A
							0 ÷ 6	0 ÷ 85	3A2-15310-00A
							0 ÷ 10	0 ÷ 145	3A2-16310-00A
							0 ÷ 16	0 ÷ 230	3A2-17310-00A
	50	ABS	G 1/4 B	ABS	ABS	Polystyrene	0 ÷ 4	0 ÷ 60	3A2-24320-00A
							0 ÷ 6	0 ÷ 85	3A2-25320-00A
							0 ÷ 10	0 ÷ 145	3A2-26320-00A
							0 ÷ 16	0 ÷ 230	3A2-28320-00A
	63	ABS	G 1/4 B	ABS	ABS	Polystyrene	0 ÷ 1,6	0 ÷ 23	3A2-32320-00A
							0 ÷ 2,5	0 ÷ 36	3A2-33320-00A
							0 ÷ 4	0 ÷ 60	3A2-34320-00A
							0 ÷ 6	0 ÷ 85	3A2-35320-00A
							0 ÷ 10	0 ÷ 145	3A2-36320-00A
							0 ÷ 16	0 ÷ 230	3A2-37320-00A

# Glycerin filled dual scale pressure gauges - bar/psi



- Sensing element - Phosphor bronze Bourdon tube
- Brass movement
- Class precision 2,5
- Stainless steel AISI 304 case
- Aluminum dial and pointer
- Brass connection G 1/4 B
- Transparent window in polycarbonate

CONNECTOR POSITION	DIAL	SCALE		CODE
	Ø (mm)	(bar)	(psi)	
LOWER MOUNT	63	0 ÷ 1	0 ÷ 23	3E1-31320-00A
		0 ÷ 2,5	0 ÷ 36	3E1-33320-00A
		0 ÷ 4	0 ÷ 60	3E1-34320-00A
		0 ÷ 6	0 ÷ 85	3E1-35320-00A
		0 ÷ 10	0 ÷ 145	3E1-36320-00A
		0 ÷ 16	0 ÷ 230	3E1-37320-00A
		0 ÷ 25	0 ÷ 360	3E1-38320-00A
		0 ÷ 40	0 ÷ 600	3E1-39320-00A
		0 ÷ 60	0 ÷ 850	3E1-3A320-00A
		0 ÷ 100	0 ÷ 1450	3E1-3B320-00A
		0 ÷ 160	0 ÷ 2300	3E1-3C320-00A
		0 ÷ 250	0 ÷ 3600	3E1-3D320-00A

# Diaphragm gauges for low pressure



- Sensing element - Phosphor bronze diaphragm
- Brass movement
- Class precision 2,5
- Aluminum dial and pointer
- Brass connection

CONNECTOR POSITION	DIAL	CONNECTION	CASE	TRASPARENT WINDOW	SCALE	CODE
	Ø (mm)				(bar)	
LOWER MOUNT	63	G 1/4 B	Coated stainless steel	Polycarbonate	0 ÷ 60	3G1-3A420-00A
					0 ÷ 100	3G1-3B420-00A
					0 ÷ 250	3G1-3D420-00A
					0 ÷ 400	3G1-3E420-00A
					0 ÷ 600	3G1-3F420-00A
	100	G 1/2 B	Stainless steel	Glass	0 ÷ 400	3G1-4E430-00A
					0 ÷ 40	3G1-59430-00A
					0 ÷ 100	3G1-5B430-00A

## Dual scale vacuum gauges - bar/psi



- Sensing element - Phosphor bronze diaphragm
- Brass movement
- Class precision 2,5
- Black coated stainless steel case
- Aluminum dial and pointer
- Brass connection

CONNECTOR POSITION	DIAL	CONNECTION	TRANSPARENT WINDOW	SCALE		CODE
	∅ (mm)			(bar)	(psi)	
LOWER MOUNT	100	G 1/2 B	Vetro	-1 ÷ 0	-14,5 ÷ 0	3B1-5V330-00A

## ACCESSORIES FOR PRESSURE GAUGES

### Pressure gougues tap-holder



- Brass body - three ways
- Nominal pressure PN 25 bar
- Flange ON 40 for check pressure gauges
- Connection male/female

ACCESSORY	CONNECTION	CODE
Pressure gougues tap-holder	G 1/4 B	7750-14-0A
	G 3/8 B	7750-38-0A
	G 1/2 B	7750-12-0A

### Worm pipe / Shock absorber



- Nominal pressure PN 25 bar
- Copper pipe
- Brass connection male/female (revolving)

ACCESSORY	CONNECTION	CODE
Worm pipe / Shock absorber	G 1/4 B	7760-14-0A
	G 3/8 B	7760-38-0A
	G 1/2 B	7760-12-0A

# ACCESSORY PRODUCTS

## Glass tube thermometers



- Glass tube with blue liquid
- Class precision 1,6
- Anodized aluminum with brass color
- Connection G 1/2 B

SCALE	LENGTH	STEM LENGTH	CONNECTION	CODE
[°C]	(mm)	(mm)		
0 ÷ 120	150	40	Vertical	1C8-12121-00A
			Horizontal	1C9-12121-00A

## Bi-metal thermometers



- Sensing element: bi-metallic spiral
- Class precision 2 (according to DIN 16203)
- Polycarbonate transparent window
- Brass sheath with PTFE seal
- Connection G 1/2 B

CONNECTOR POSITION	DIAL		SCALE	CASE	POINTER	STEM LENGTH	CODE
	(mm)	material	[°C]			(mm)	
LOWER MOUNT	80	Al	0 ÷ 120	ABS	Al	40	1A3-10102-00A
						100	1A3-10105-00A
CENTER BACK MOUNT	80	ABS	-20 ÷ 60	ABS	ABS	40	1A4-20101-00A
			100			1A4-20105-00A	
Bracelet type *	63	Al	0 ÷ 120	Stainless steel	ABS	40	1A4-10101-00A
						100	1A4-10105-00A
						-	1B2-10010-00A

\* The "bracelet" version is supplied with stainless steel fixing spring.

## Copper sheaths with brass connection



BULBS N.	Ø INTERNAL (mm)	Ø EXTERNAL (mm)	LENGTH (mm)	SHAPED	MALE CONNECTION	CODE
1 x Ø 6,5 mm	7	8	100	NO	1/2 - 14 NPT	4550-46-0A
			120			4550-46-3A
			200			4550-46-6A
1 x Ø 8,5 mm	9	10	100			4550-30-1A
			120			4550-30-2A
			200			4550-30-4A
3 x Ø 6,5 mm	15	16	100	SI	R 1/2 - DIN 2999	4550-40-0A
			120			4550-40-3A
			100			4550-37-2A
			120			4550-37-1A
Corrugated friction spring for sheath Ø 15/16mm L=100 used with 2 bulbs						4555-25-2A
Capillary fixing spring for thermostats TG200/TG400 and capillary thermometers						4555-20-0A

## Multipurpose thermocouples

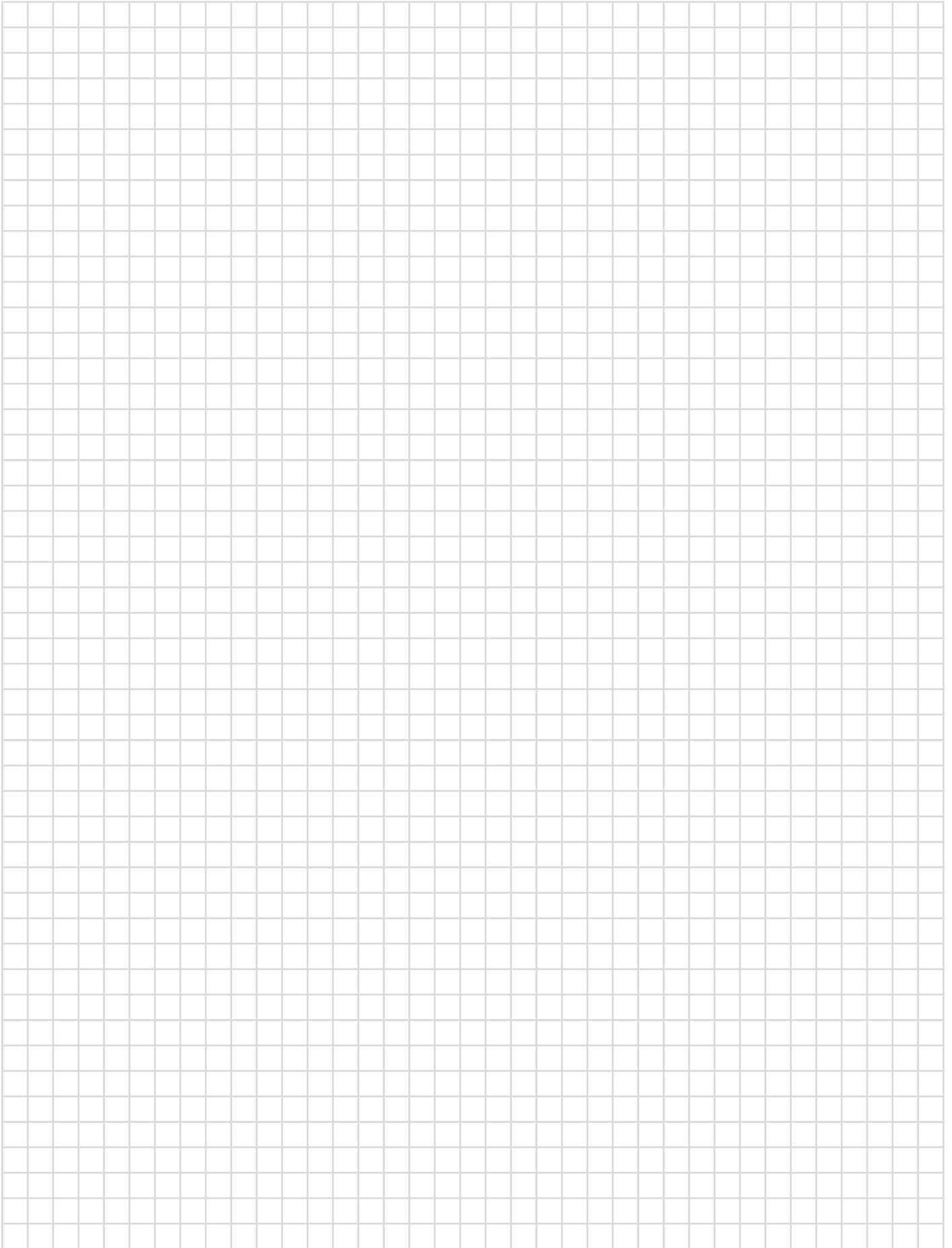


TYPE	CABLE LENGTH (mm)	5 CONNECTORS INCLUDED	CODE
Universal	900	yes	5920-02-0A
Universal interrupted without thermostat			5930-02-0A

## Bi-metal contact thermostats



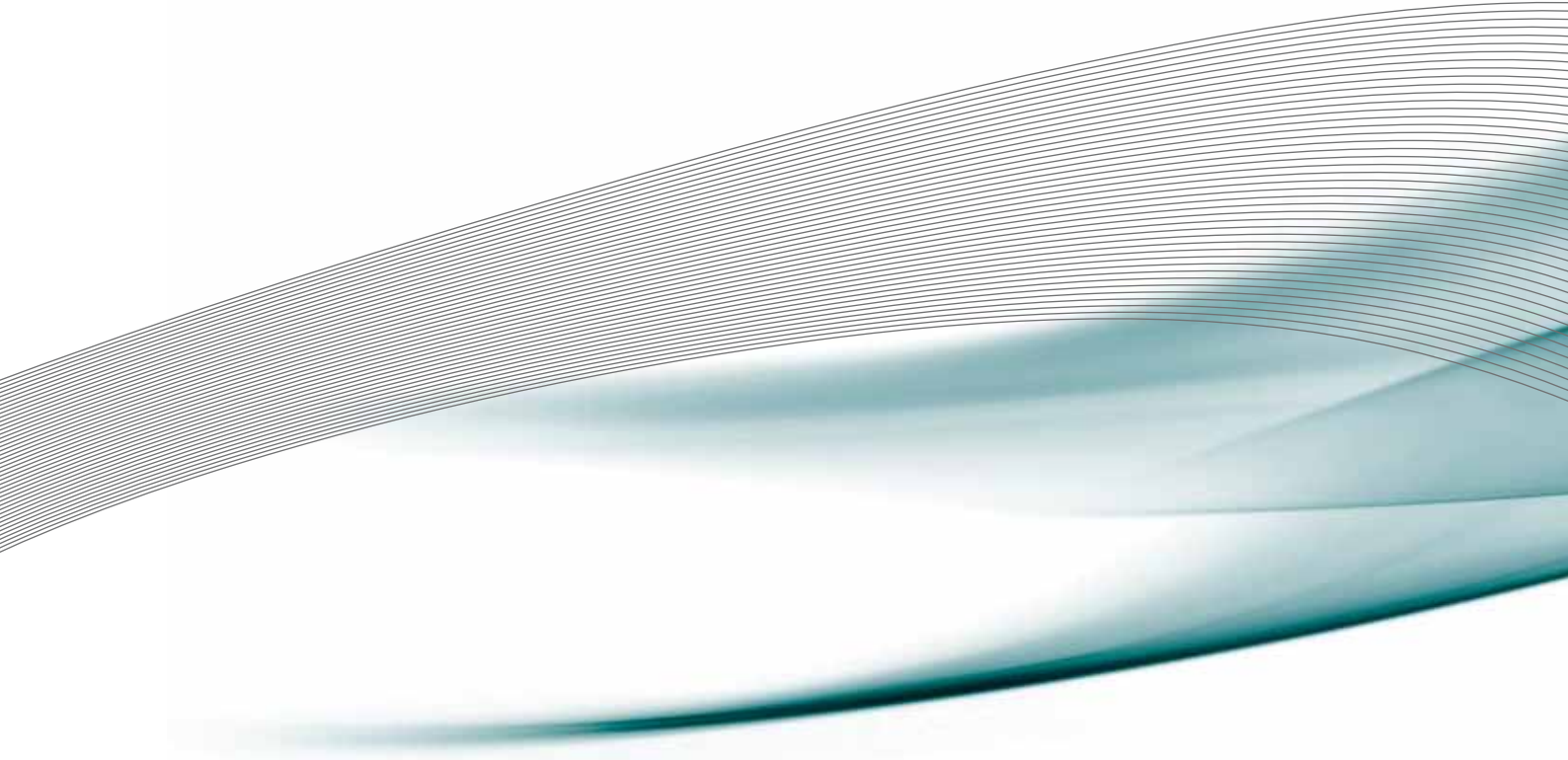
TYPE	CODE
Fixing spring for bi-metal contact thermostats - Length 30 mm - Extension 110mm	4555-41-1A



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