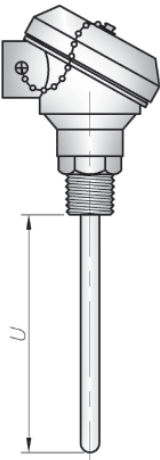
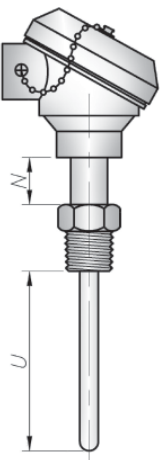
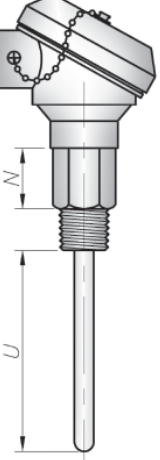
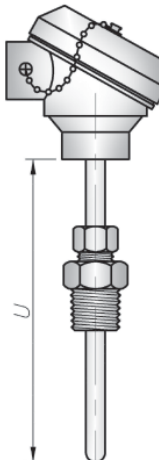
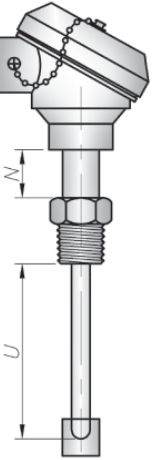
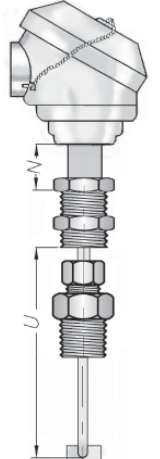
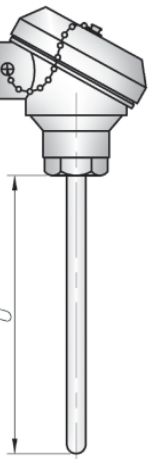
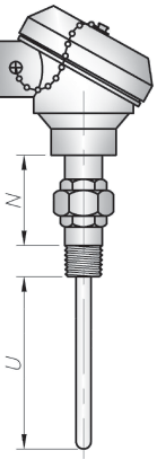
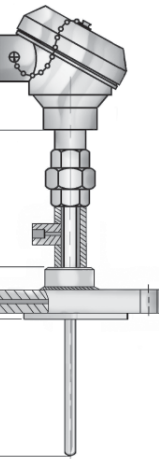
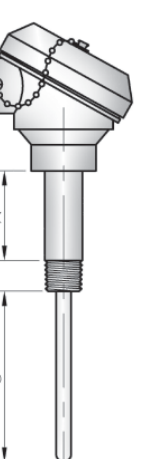
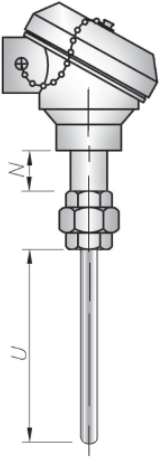
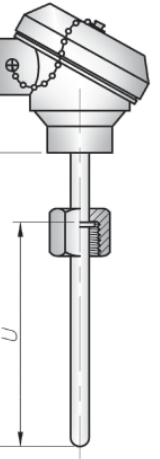
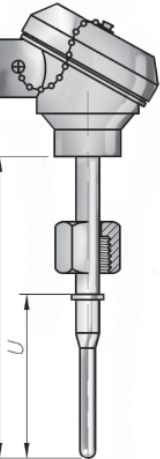
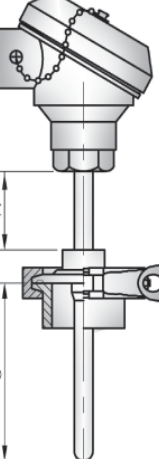
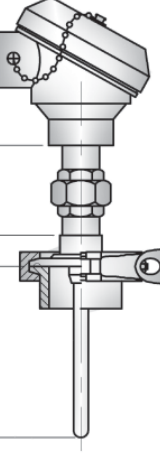


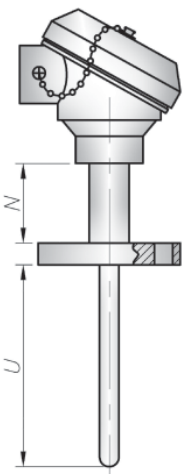
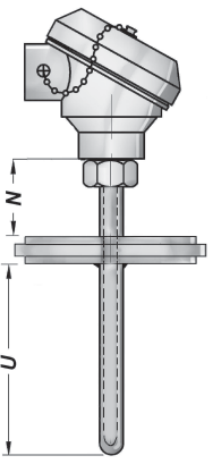
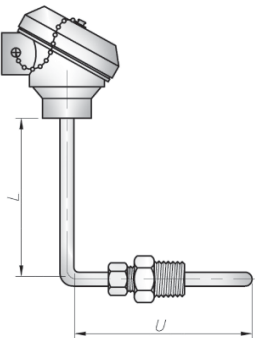
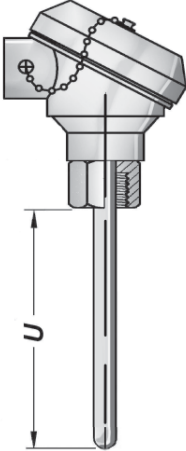
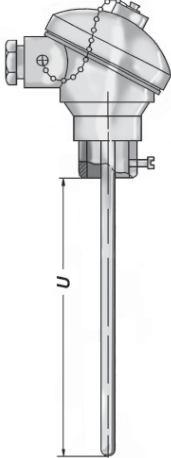
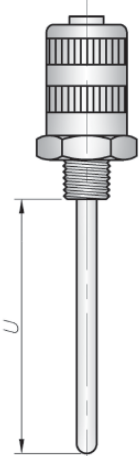
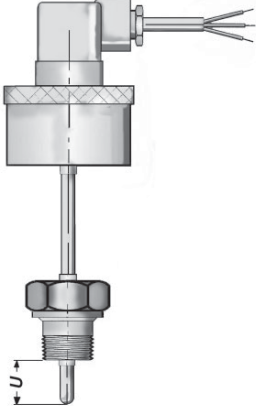
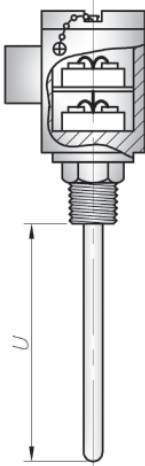
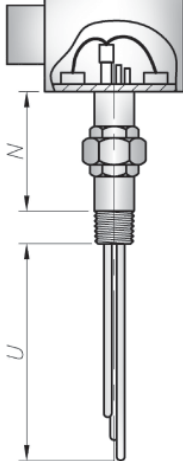
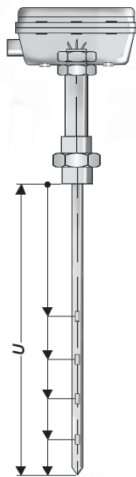
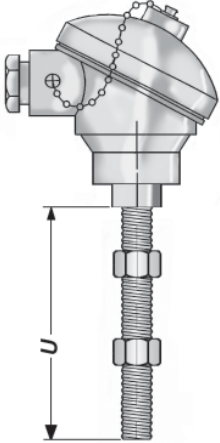
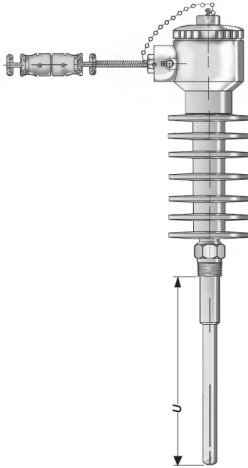
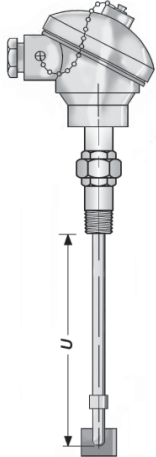
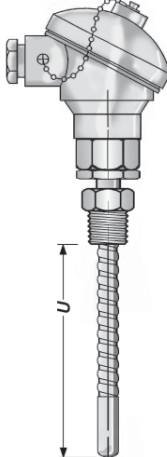
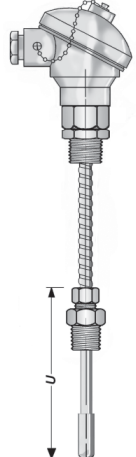
Série ATI - Termopares de isolamento mineral

Série ATT - Termorresistências

ATI-300 ATT-300	ATI-301 ATT-301	ATI-302 ATT-302	ATI-303 ATT-303	ATI-304 ATT-304
				
Termopar/Termorresistência com cabeçote e rosca.	Termopar/Termorresistência com extensão N, cabeçote e rosca.	Termopar/Termorresistência com cabeçote, extensão N e rosca.	Termopar/Termorresistência com cabeçote e buçim.	Termopar/Termorresistência com cabeçote, rosca e skin-point.
ATI-305 ATT-305	ATI-306 ATT-306	ATI-307 ATT-307	ATI-308 ATT-308	ATI-309 ATT-309
				
Termopar/Termorresistência com skin-point, buçim e porca de fixação.	Termopar/Termorresistência com cabeçote sem rosca de processo.	Termopar/Termorresistência com cabeçote, extensão N e tubo de proteção.	Termopar/Termorresistência com cabeçote, niple, união, TE de redução e flange com orifício.	Termopar/Termorresistência com cabeçote e extensão N.
ATI-310 ATT-310	ATI-311 ATT-311	ATI-312 ATT-312	ATI-313 ATT-313	ATI-314 ATT-314
				
Termopar/Termorresistência com cabeçote, niple e rosca fêmea.	Termopar/Termorresistência com cabeçote e porca louca.	Termopar/Termorresistência para máquinas de leite.	Termopar/Termorresistência com cabeçote e tri-clamp.	Termopar/Termorresistência com cabeçote, união e tri-clamp.

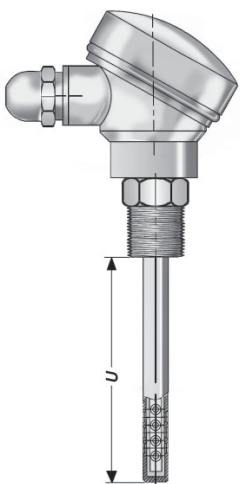
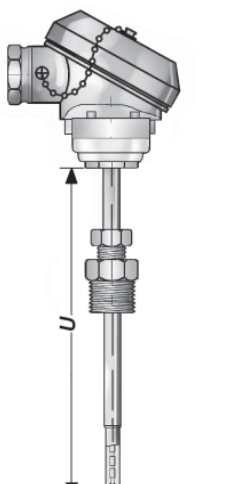
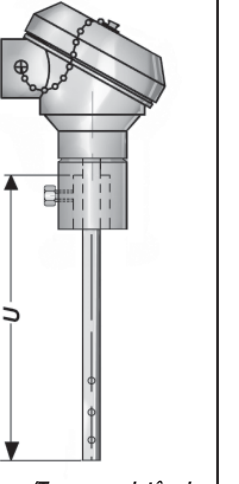
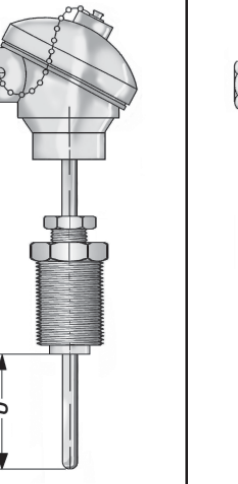

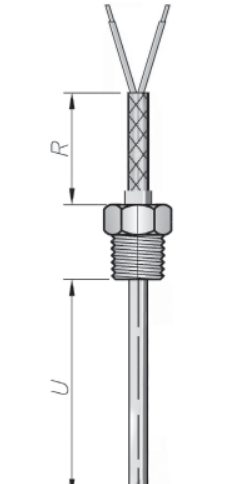
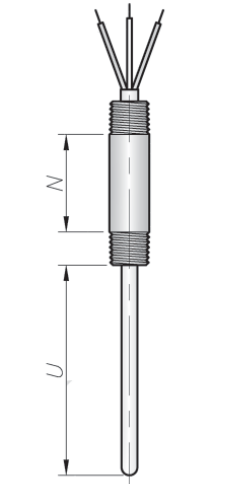
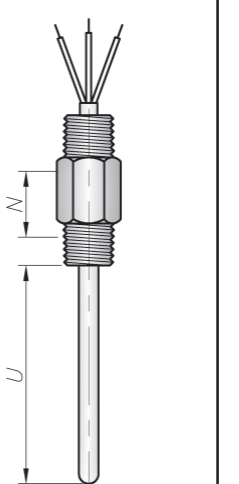
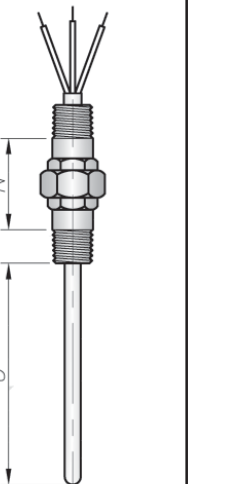
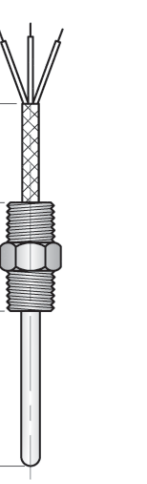
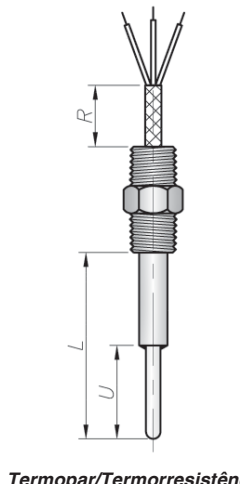
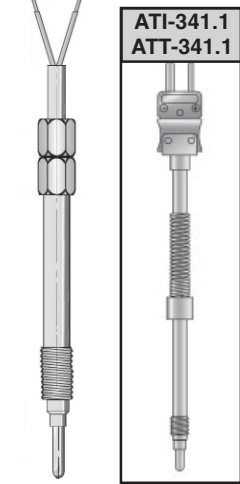
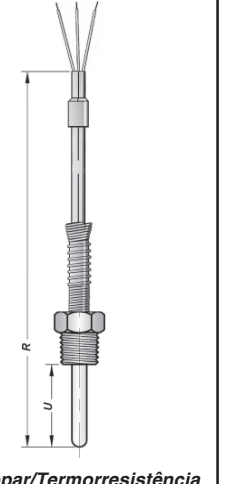
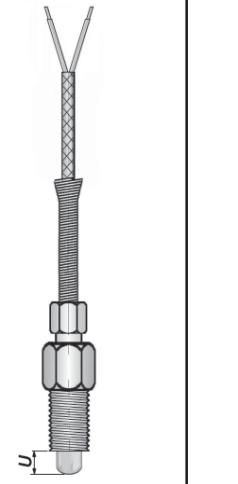
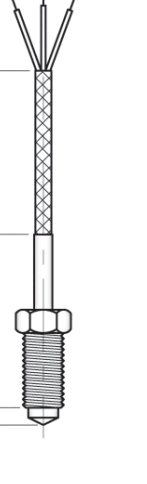
Série ATI - Termopares de isolamento mineral

Série ATT - Termorresistências

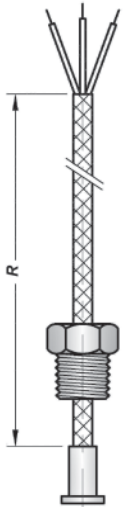
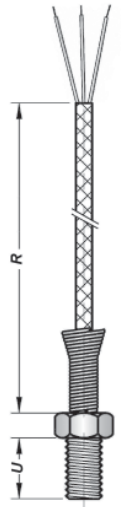
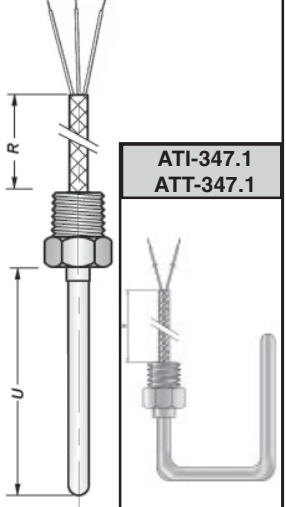
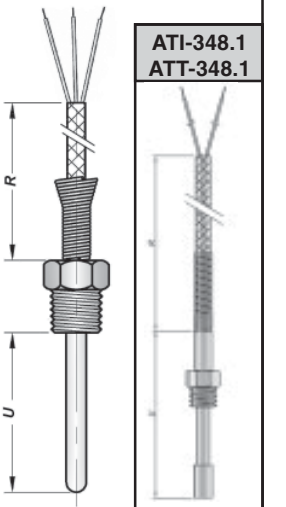
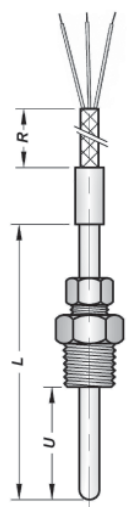
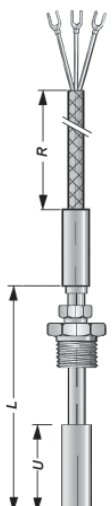
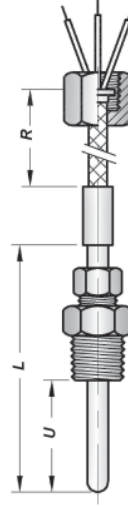
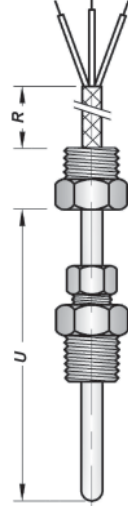
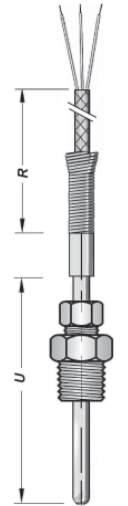
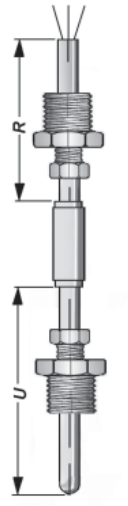
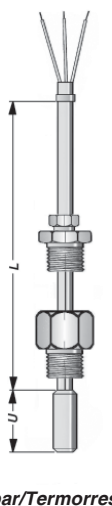
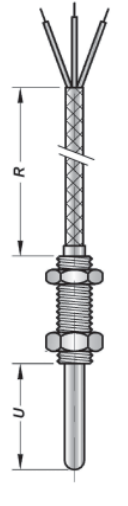
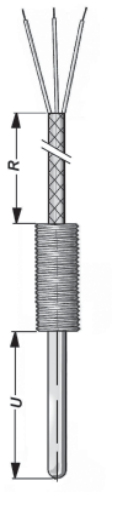
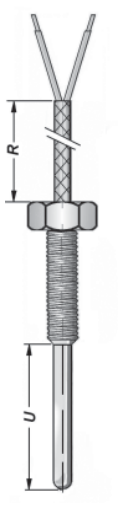
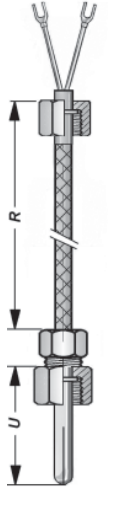
ATI-315 ATT-315	ATI-316 ATT-316	ATI-317 ATT-317	ATI-318 ATT-318	ATI-319 ATT-319
 <p><i>Termopar/Termorresistência com cabeçote e anel de fixação.</i></p>	 <p><i>Termopar/Termorresistência para pasteurizadores.</i></p>	 <p><i>Termopar/Termorresistência angular com cabeçote e buçim.</i></p>	 <p><i>Termopar /Termorresistência com cabeçote e conexão fêmea.</i></p>	 <p><i>Termopar/Termorresistência com cabeçote e furo com parafuso de fixação.</i></p>
ATI-320 ATT-320	ATI-321 ATT-321	ATI-322 ATT-322	ATI-323 ATT-323	ATI-324 ATT-324
 <p><i>Termopar/Termorresistência com cabeçote cilíndrico de inox.</i></p>	 <p><i>Termopar/Termorresistência com cabeçote cilíndrico com transmissor e rosca.</i></p>	 <p><i>Termopar/Termorresistência com transmissor duplo.</i></p>	 <p><i>Termopar/Termorresistência multiponto.</i></p>	 <p><i>Termopar/Termorresistência multiponto.</i></p>
ATI-325 ATT-325	ATI-326 ATT-326	ATI-327 ATT-327	ATI-328 ATT-328	ATI-329 ATT-329
 <p><i>Termopar/Termorresistência com cabeçote e haste roscada com porca.</i></p>	 <p><i>Termopar/Termorresistência com cabeçote e dissipador de temperatura.</i></p>	 <p><i>Termopar/Termorresistência com cabeçote, união, skin-point e buçim interno.</i></p>	 <p><i>Termopar/Termorresistência com cabeçote, haste flexível e buçim.</i></p>	 <p><i>Termopar/Termorresistência com cabeçote, rabicho flexível e buçim.</i></p>

Série ATI - Termopares de isolamento mineral

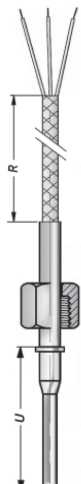
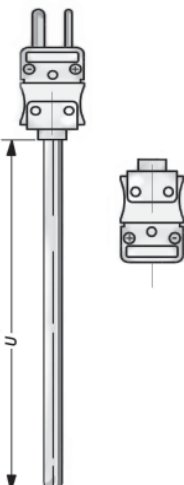
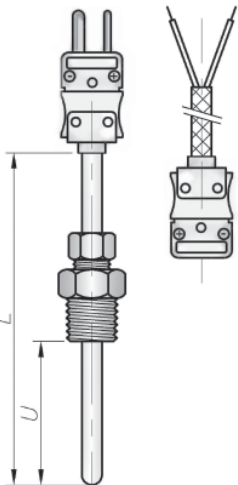
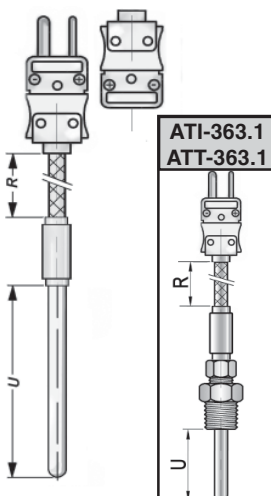
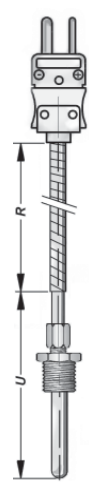
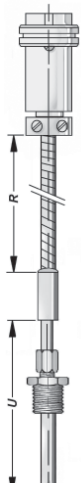
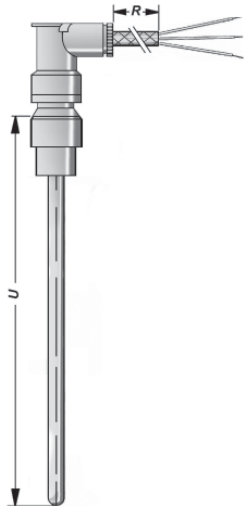
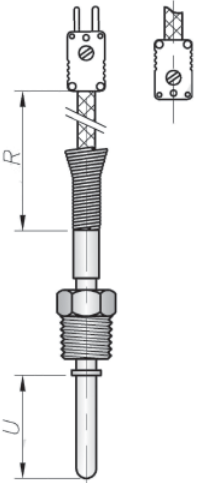
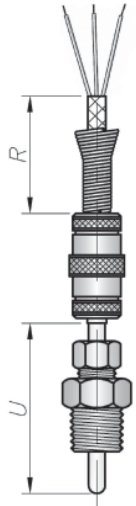
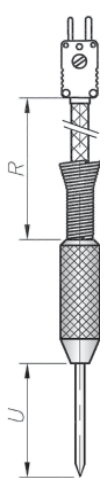


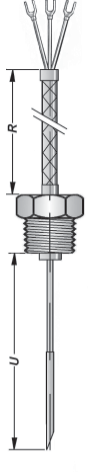

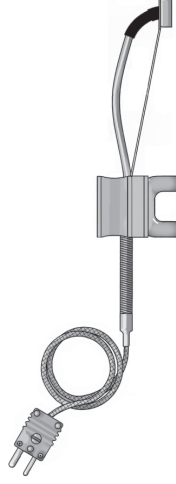
Série ATT - Termorresistências

ATI-330 ATT-330	ATI-331 ATT-331	ATI-332 ATT-332	ATI-333 ATT-333	ATI-334 ATT-334
 <p>Termopar/Termorresistência com cabeçote e haste com ponta perfurada.</p>	 <p>Termopar/Termorresistência com cabeçote, buçim e haste com degrau.</p>	 <p>Termopar/Termorresistência com cabeçote e haste com ponta perfurada e furo com parafuso.</p>	 <p>Termopar/Termorresistência com cabeçote e eixo roscado com porca.</p>	 <p>Termopar/Termorresistência com cabeçote e abraçadeira.</p>
ATI-335 ATT-335	ATI-336 ATT-336	ATI-337 ATT-337	ATI-338 ATT-338	ATI-339 ATT-339
 <p>Termopar/Termorresistência com rosca e cabo.</p>	 <p>Termopar/Termorresistência com extensão N roscado.</p>	 <p>Termopar/Termorresistência com extensão N roscado.</p>	 <p>Termopar/Termorresistência com niple e união.</p>	 <p>Termopar/Termorresistência com rosca para processo e cabeçote.</p>
ATI-340 ATT-340	ATI-341 ATT-341	ATI-342 ATT-342	ATI-343 ATT-343	ATI-344 ATT-344
 <p>Termopar/Termorresistência com haste com degrau e niple roscado</p>	 <p>Termopar/Termorresistência com rosca móvel.</p>	 <p>Termopar/Termorresistência com rosca e mola de proteção.</p>	 <p>Termopar/Termorresistência com ponta e rosca móvel.</p>	 <p>Termopar/Termorresistência com cabo e porca louca.</p>

Série ATI - Termopares de isolamento mineral
Série ATT - Termorresistências

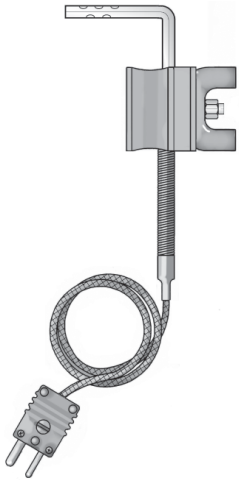
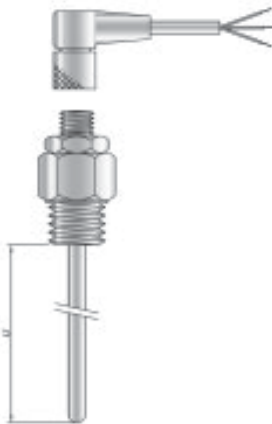
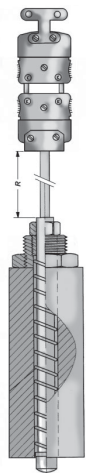

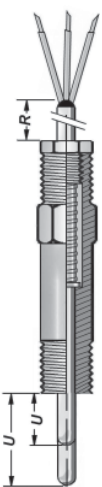
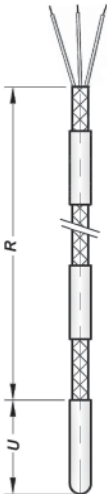
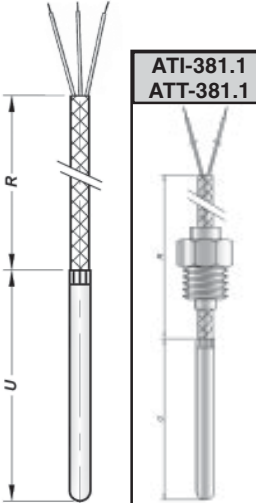
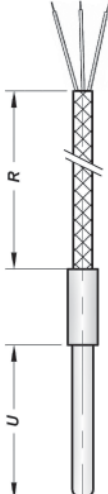
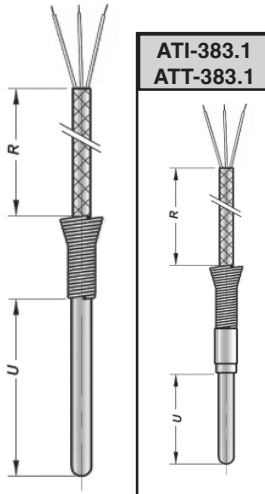
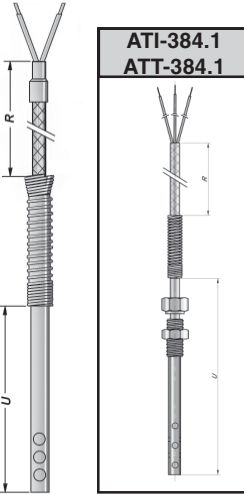
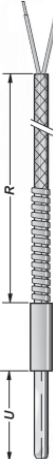
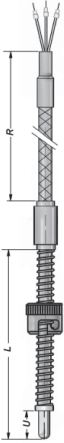
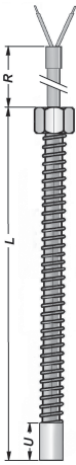
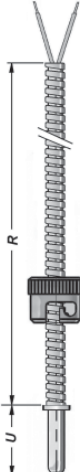
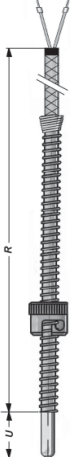
ATI-345 ATT-345	ATI-346 ATT-346	ATI-347 ATT-347	ATI-348 ATT-348	ATI-349 ATT-349
 <p><i>Termopar/Termorresistência de contato com conexão.</i></p>	 <p><i>Termopar/Termorresistência com cabo e sensor roscado.</i></p>	 <p><i>Termopar/Termorresistência com rosca e cabo.</i></p>	 <p><i>Termopar/Termorresistência com cabo, rosca fixa e mola.</i></p>	 <p><i>Termopar/Termorresistência com buçim, pote e cabo.</i></p>
ATI-350 ATT-350	ATI-351 ATT-351	ATI-352 ATT-352	ATI-353 ATT-353	ATI-354 ATT-354
 <p><i>Termopar/Termorresistência com bulbo, buçim e cabo.</i></p>	 <p><i>Termopar/Termorresistência com buçim, pote, porca e cabo.</i></p>	 <p><i>Termopar/Termorresistência com buçim rosca e cabo.</i></p>	 <p><i>Termopar/Termorresistência com buçim, pote e cabo.</i></p>	 <p><i>Termopar/Termorresistência com dois buçins.</i></p>
ATI-355 ATT-355	ATI-356 ATT-356	ATI-357 ATT-357	ATI-358 ATT-358	ATI-359 ATT-359
 <p><i>Termopar/Termorresistência com rosca para processo e buçim.</i></p>	 <p><i>Termopar/Termorresistência com rosca e porca de fixação.</i></p>	 <p><i>Termopar/Termorresistência com pote roscado.</i></p>	 <p><i>Termopar/Termorresistência com eixo roscado.</i></p>	 <p><i>Termopar/Termorresistência com buçim fêmea e porca.</i></p>

Série ATI - Termopares de isolamento mineral
Série ATT - Termorresistências

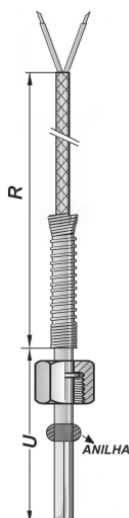
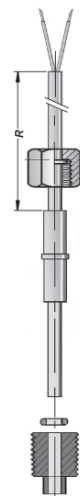
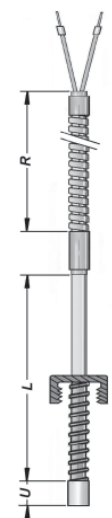
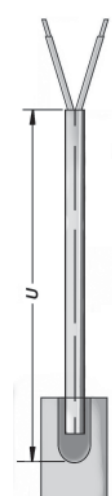
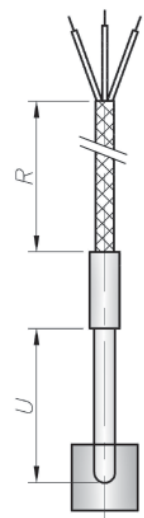
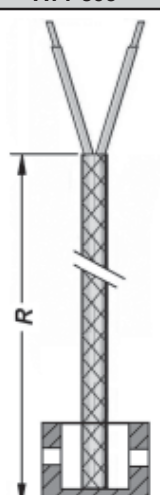
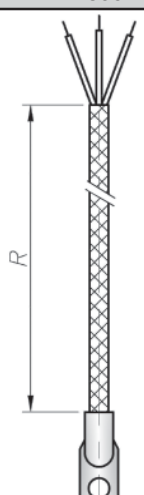
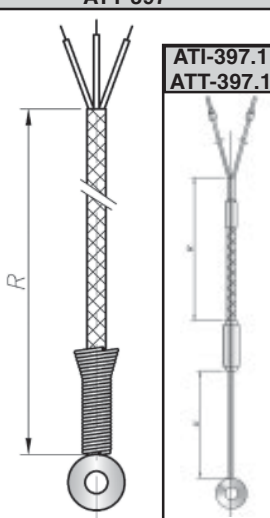
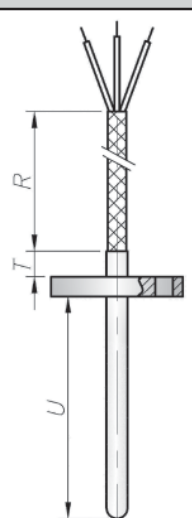

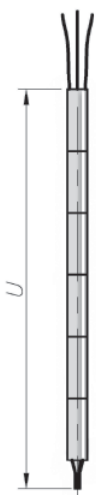

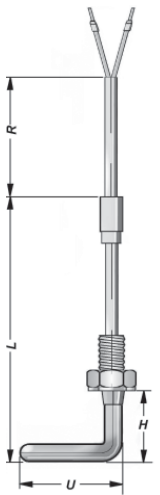
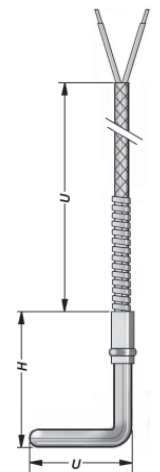
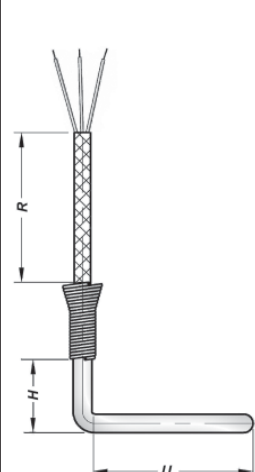
ATI-360 ATT-360	ATI-361 ATT-361	ATI-362 ATT-362	ATI-363 ATT-363	ATI-364 ATT-364
 <p><i>Termopar/Termorresistência para máquina de leite.</i></p>	 <p><i>Termopar/Termorresistência com conector.</i></p>	 <p><i>Termopar/Termorresistência com buçim e conector M x F.</i></p>	 <p><i>Termopar/Termorresistência com pote, cabo e conector M x F.</i></p>	 <p><i>Termopar/Termorresistência com buçim e cabo com cordalha de inox.</i></p>
ATI-365 ATT-365	ATI-366 ATT-366	ATI-367 ATT-367	ATI-368 ATT-368	ATI-369 ATT-369
 <p><i>Termopar/Termorresistência com pote, buçim e conector.</i></p>	 <p><i>Termopar/Termorresistência com conector e rabicho.</i></p>	 <p><i>Termopar/Termorresistência com pote, porca louca e conector M x F.</i></p>	 <p><i>Termopar/Termorresistência com conector e buçim.</i></p>	 <p><i>Termopar/Termorresistência com manopla, conector e haste espeto.</i></p>
ATI-370 ATT-370	ATI-371 ATT-371	ATI-372 ATT-372	ATI-373 ATT-373	ATI-374 ATT-374
 <p><i>Termopar/Termorresistência com rosca e conector Melro.</i></p>	 <p><i>Termopar/Termorresistência com ponta para penetração e conector Whinner.</i></p>	 <p><i>Termopar/Termorresistência com ponta frezada para penetração e cabo.</i></p>	 <p><i>Termopar/Termorresistência com conector Whinner.</i></p>	 <p><i>Termopar/Termorresistência com imã para linha de pintura.</i></p>

Série ATI - Termopares de isolamento mineral

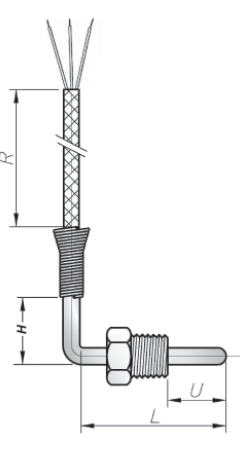
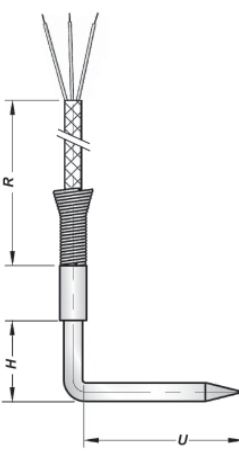
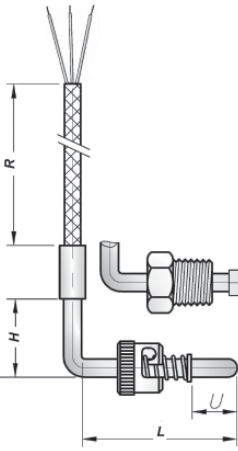
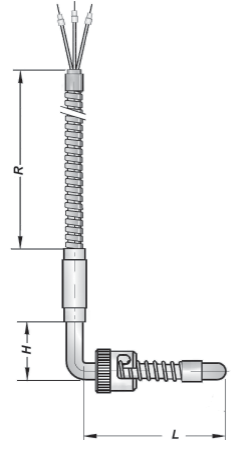
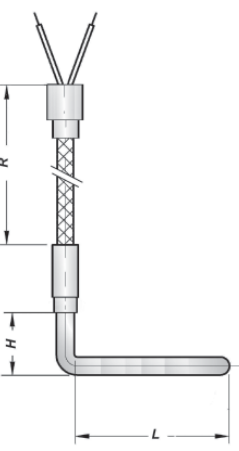
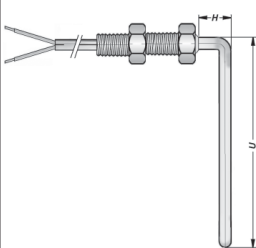
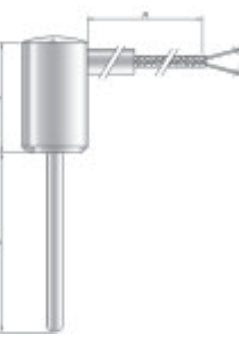
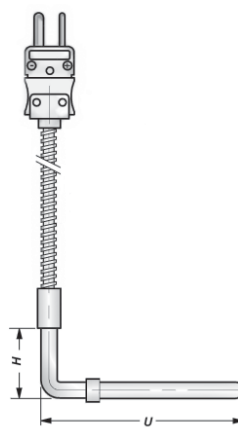
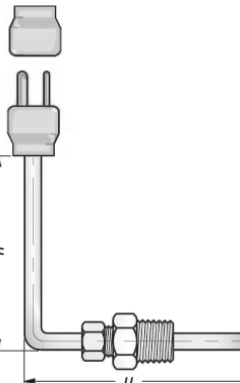
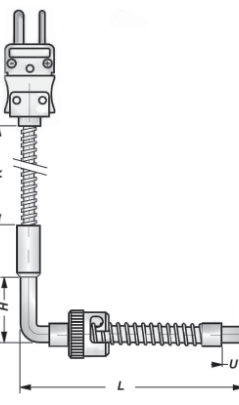
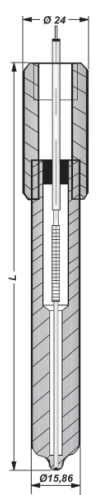
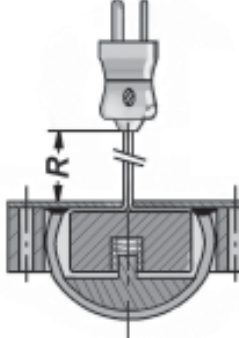
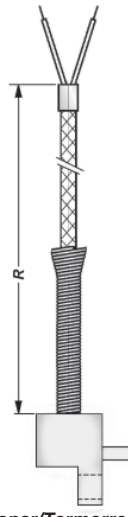
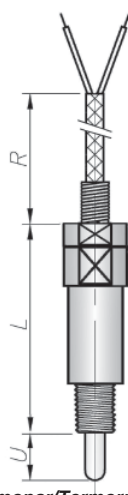

Série ATT - Termorresistências

ATI-375 ATT-375	ATI-376 ATT-376	ATI-377 ATT-377	ATI-378 ATT-378	ATI-379 ATT-379
				
Termopar/Termorresistência com ímã para linha de pintura.	Termopar/Termorresistência com conector.	Termopar/Termorresistência com mola e conector para medição de temperatura da bobina.	Termopar/Termorresistência de contato por pressão.	Termopar/Termorresistência com mola contato por pressão.
ATI-380 ATT-380	ATI-381 ATT-381	ATI-382 ATT-382	ATI-383 ATT-383	ATI-384 ATT-384
				
Termopar/Termorresistência com cabo.	Termopar/Termorresistência com cabo prensado.	Termopar/Termorresistência com pote e cabo flexível.	Termopar/Termorresistência com cabo e mola.	Termopar/Termorresistência com bainha com furos e mola.
ATI-385 ATT-385	ATI-386 ATT-386	ATI-387 ATT-387	ATI-388 ATT-388	ATI-389 ATT-389
				
Termopar/Termorresistência com pote e cordoalha metálica.	Termopar/Termorresistência com pote, cordoalha e baioneta.	Termopar/Termorresistência com mola e porca.	Termopar/Termorresistência com cordoalha e baioneta.	Termopar/Termorresistência com baioneta e mola de ajuste.

Série ATI - Termopares de isolamento mineral
Série ATT - Termorresistências

ATI-390 ATT-390	ATI-391 ATT-391	ATI-392 ATT-392	ATI-393 ATT-393	ATI-394 ATT-394
 <p>Termopar/Termorresistência com porca ajustável.</p>	 <p>Termopar/Termorresistência com porca, vedação e niple para solda.</p>	 <p>Termopar/Termorresistência para cilindro da extrusora.</p>	 <p>Termopar/Termorresistência com skin-point.</p>	 <p>Termopar/Termorresistência com skin-point, pote e cabo.</p>
ATI-395 ATT-395	ATI-396 ATT-396	ATI-397 ATT-397	ATI-398 ATT-398	ATI-399 ATT-399
 <p>Termopar/Termorresistência com tampão de contato com furo de fixação.</p>	 <p>Termopar/Termorresistência com terminal de compressão.</p>	 <p>Termopar/Termorresistência com ponteira olhal.</p>	 <p>Termopar/Termorresistência com anel de fixação.</p>	 <p>Termopar/Termorresistência com bloco e isolador cerâmico.</p>
ATI-400 ATT-400	ATI-401 ATT-401	ATI-402 ATT-402	ATI-403 ATT-403	ATI-404 ATT-404
 <p>Termopar/Termorresistência com isolador cerâmico.</p>	 <p>Termopar/Termorresistência simples ou mutiponto para forno.</p>	 <p>Termopar/Termorresistência angular para forno.</p>	 <p>Termopar/Termorresistência angular com pote e cordoalha.</p>	 <p>Termopar/Termorresistência angular com cabo.</p>

Série ATI - Termopares de isolamento mineral
Série ATT - Termorresistências

ATI-405 ATT-405	ATI-406 ATT-406	ATI-407 ATT-407	ATI-408 ATT-408	ATI-409 ATT-409
				
Termopar/Termorresistência angular com porca louca.	Termopar/Termorresistência angular com ponta de penetração.	Termopar/Termorresistência angular para molde com baioneta/porca.	Termopar/Termorresistência angular com baioneta e cordoalha metálica.	Termopar/Termorresistência angular com cabo.
ATI-410 ATT-410	ATI-411 ATT-411	ATI-412 ATT-412	ATI-413 ATT-413	ATI-414 ATT-414
				
Termopar/Termorresistência angular com rosca de fixação.	Termopar/Termorresistência angular com bainha.	Termopar/Termorresistência angular com conector.	Termopar/Termorresistência angular com buçim e conector.	Termopar/Termorresistência angular com baioneta e conector.
ATI-415 ATT-415	ATI-416 ATT-416	ATI-417 ATT-417	ATI-418 ATT-418	ATI-419 ATT-419
				
Termopar/Termorresistência para Bambury.	Sensor tipo fita por contato com conector.	Termopar/Termorresistência com pino e furo de fixação.	Termopar/Termorresistência com bulbo roscado e encaixe de chave.	Detector de temperatura para enrolamento de motores e geradores.

TERMOPARES

Termopares

Como especificar:

Modelo		Quadro 1		Quadro2		Quadro 3		Quadro 4 *	
ATI-XXX		X-X		X-X-XXX-XX-X-XXX		XXX-XX-XX-X		X-XXX-X	

Tipo	Com rabicho sem pote	1	
	Com rabicho e pote	2	
	Com bloco e ligação	3	
	Com cabeçote e bloco	4	
	Com conector	5	
	Sem rosca fixa de conexão	0	
	Com rosca de conexão	1	
Com rosca móvel de	2		
Quadro 1		X	X

Cabeçote e bloco	S/ cab. e bloco	000			
	Cabeçote	KNA/KSJ/CEX KNC/KSC AGA/APA			
	Bloco	AB-1/2/3/4/5/6/7			
Rosca do conduíte	s/ cabeçote	00			
	1/4" NPT	14			
	1/2"NF	11			
	1/2"NPT	12			
	3/4"NPT	34			
	Prensa cabo	01			
Rosca de fixação do termopar	Medidas	s/ rosca	00		
		1/8"	18		
		1/4"	14		
		1/2"	12		
		3/4"	34		
		1"	10		
		outro	ES		
	Tipo	s/ rosca	0		
GÁS / BSP		G			
NPT		N			
outro**		ES			
Quadro 3		XXX	XX	XX	X

Termopar	Ferro-Constantan	J					
	Cromel-Alumel	K					
	Cobre-Constantan	T					
Nº de elementos	Simples	S					
	Duplo	D					
Material da bainha	Inox 304	304					
	Inox 310	310					
	Inox 316	316					
	Inconel	600					
Ø da bainha	1,5mm	15					
	3,0mm	30					
	6,0mm	60					
Junta quente	Aterrada	A I E					
	Isolada						
	Exposta						
Compr. nominal		Indicar em (mm)					
Quadro 2		X	X	XXX	XX	X	XXX

Rabicho de ligação	Fio	F		
	Cabo	C		
Comprimento		Indicar em (mm)		
Trança metálica	Sem Trança	S		
	Aço	A		
	Cobre	C		
Quadro 4		X	XXX	X

* P/ATI-20/ATI-52

** Especificado pelo cliente

* P/ATI-20/ATI-52

** Especificado pelo cliente

Termorresistências

Como especificar:

Modelo	Quadro 1	Quadro2	Quadro 3	Quadro 4	Quadro 5
ATT	X-X-X	X-XX	XXX-XX-XXX	XXX-XX-XX-X	X-XXX-X

Tipo	Convencional	C	
	Com isolamento mineral	I	
	Sem terminal, com rabicho	0	
	Com pote e rabicho	1	
	Com bloco de ligação	2	
	Com cabeçote e bloco	3	
	C/ conector metálico	4	
	Sem rosca de conexão	0	
	Com rosca de conexão fixa	1	
	Com rosca de conexão móvel	2	
Quadro 1		X	X X

Especificação da resistência	Platina 100 Ohms à 0°C	P	
	Níquel 100 Ohms à 0°C	N	
	Cobre 10 Ohms à 25°C	C	
Resistência	Simple c/2 fios	S1	
	Dupla c/4 fios	D2	
	Tripla c/6 ou 9 fios	T3	
	Simple c/3 fios	S3	
	Dupla c/6 fios	D6	
	Quadro 2	X	XX

Material da proteção	Inox 304	304	
	Inox 316	316	
Ø da proteção	4,76mm	04	
	6,00mm	06	
	8,00mm	08	
	10,00mm	10	
	12,00mm	12	
Comprimento nominal			Indicar em (mm)
	Quadro 3	XXX	XX XXX

Cabeçote e bloco	S/Cab. e Bloco	000	
	Cabeçotes:	KNA/KSJ/CEX KNC/KSC AGA/APA	
	Blocos :	AB-1/2/3/4/5/6/7	
Rosca do conduíte	Sem cabeçote	00	
	1/4" NPT	14	
	1/2" NF	11	
	1/2" NPT	12	
	3/4" NPT	34	
	Prensa Cabo	01	
Rosca de fixação	Medida	S/ rosca	00
		1/8"	18
		1/4"	14
		1/2"	12
		3/4"	34
		1"	10
		outro*	ES
	Tipo	S/ rosca	0
		G= Gás / BSP	G
		N= NPT	N
		outro*	ES
		Quadro 4	XXX XX XX X

*especificado pelo cliente

Rabicho de ligação	Fio	F	
	Cabo	C	
Comprimento			Indicar em (mm)
Trança metálica	Sem trança		S
	Aço		A
	Cobre		C
Quadro 5		X	XXX X