

MMT INSERTOS COM QUEBRA-CAVACOS 3-D, CLASSE DE TOLERÂNCIA M

INSERTOS DE ROSQUEAMENTO EXTERNO

Tipo	Referência para Pedido	Cobertura		Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
		VP15TF	VP20RT	mm	fios/pol.	D1	S1	Z1	Z2	Re		
Perfil Parcial 60°	MMT16ERA60-S	●		0.5-1.5	48-16	9.525	3.44	0.8	0.9	0.06	—	
	16ERG60-S	●		1.75-3.0	14-8	9.525	3.44	1.2	1.7	0.23	—	
Perfil Parcial 55°	MMT16ERA55-S	●			48-16	9.525	3.44	0.8	0.9	0.07	—	
	16ERG55-S	●			14-8	9.525	3.44	1.2	1.7	0.23	—	
Métrica ISO	MMT16ER100ISO-S	●	●	1.0		9.525	3.44	0.7	0.7	0.13	0.61	
	16ER125ISO-S	●	●	1.25		9.525	3.44	0.8	0.9	0.16	0.77	
	16ER150ISO-S	●	●	1.5		9.525	3.44	0.8	1.0	0.20	0.92	
	16ER175ISO-S	●	●	1.75		9.525	3.44	0.9	1.2	0.22	1.07	
	16ER200ISO-S	●	●	2.0		9.525	3.44	1.0	1.3	0.26	1.23	
	16ER250ISO-S	●	●	2.5		9.525	3.44	1.1	1.5	0.33	1.53	
	16ER300ISO-S	●	●	3.0		9.525	3.44	1.2	1.6	0.40	1.84	
UN Americana	MMT16ER160UN-S	●			16	9.525	3.44	0.9	1.1	0.23	0.97	
	16ER140UN-S	●			14	9.525	3.44	1.0	1.2	0.26	1.11	
	16ER120UN-S	●			12	9.525	3.44	1.1	1.4	0.30	1.30	
Whitworth para BSW, BSP	MMT16ER190W-S	●			19	9.525	3.44	0.8	1.0	0.18	0.86	
	16ER140W-S	●			14	9.525	3.44	1.0	1.2	0.25	1.16	
	16ER110W-S	●			11	9.525	3.44	1.1	1.5	0.32	1.48	
BSPT	MMT16ER190BSPT-S	●			19	9.525	3.44	0.8	0.9	0.18	0.86	
	16ER140BSPT-S	●			14	9.525	3.44	1.0	1.2	0.25	1.16	
	16ER110BSPT-S	●			11	9.525	3.44	1.1	1.5	0.32	1.48	

ROSQUEAMENTO

IDENTIFICAÇÃO

MMT	16	E	R	050	ISO	-	S																												
Designação	Diâmetro do Círculo Inscrito (mm)	Aplicação	Sentido de Corte	Passo	Tipo de Rosca																														
	11 6.35 16 9.525	E Externa I Interna	R Direito	<table border="1"> <tr> <td>100</td> <td>1.0mm</td> <td rowspan="3">A</td> <td rowspan="3">0.5-1.5mm ou 48-16 fios/pol.</td> </tr> <tr> <td>125</td> <td>1.25mm</td> </tr> <tr> <td>150</td> <td>1.5mm</td> </tr> <tr> <td>175</td> <td>1.75mm</td> <td rowspan="4">G</td> <td rowspan="4">1.75-3.0mm ou 14-8 fios/pol.</td> </tr> <tr> <td>200</td> <td>2.0mm</td> </tr> <tr> <td>250</td> <td>2.5mm</td> </tr> <tr> <td>300</td> <td>3.0mm</td> </tr> </table>	100	1.0mm	A	0.5-1.5mm ou 48-16 fios/pol.	125	1.25mm	150	1.5mm	175	1.75mm	G	1.75-3.0mm ou 14-8 fios/pol.	200	2.0mm	250	2.5mm	300	3.0mm	<table border="1"> <tr> <td>60</td> <td>Perfil parcial 60°</td> </tr> <tr> <td>55</td> <td>Perfil parcial 55°</td> </tr> <tr> <td>ISO</td> <td>Métrica ISO</td> </tr> <tr> <td>W</td> <td>Whitworth para BSW, BSP</td> </tr> <tr> <td>BSPT</td> <td>BSPT</td> </tr> <tr> <td>UN</td> <td>UN Americana</td> </tr> </table>	60	Perfil parcial 60°	55	Perfil parcial 55°	ISO	Métrica ISO	W	Whitworth para BSW, BSP	BSPT	BSPT	UN	UN Americana
100	1.0mm	A	0.5-1.5mm ou 48-16 fios/pol.																																
125	1.25mm																																		
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ISO	Métrica ISO																																		
W	Whitworth para BSW, BSP																																		
BSPT	BSPT																																		
UN	UN Americana																																		

● : Estoque mantido.
 s Insertos com quebra-cavacos 3-D, classe de tolerância M

INSERTOS DE ROSQUEAMENTO INTERNO

Tipo	Referência para Pedido	Cobertura		Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
		VP15TF	VP20RT			D1	S1	Z1	Z2	Re		
				mm	fios/pol.							
Perfil Parcial 60°	MMT11IRA60-S	●		0.5-1.5	48-16	6.35	3.04	0.8	0.9	0.03	—	Perfil Parcial
	16IRA60-S	●		0.5-1.5	48-16	9.525	3.44	0.8	0.9	0.03	—	
	16IRG60-S	●		1.75-3.0	14-8	9.525	3.44	1.2	1.7	0.11	—	
Perfil Parcial 55°	MMT11IRA55-S	●			48-16	6.35	3.04	0.8	0.9	0.07	—	Perfil Parcial
	16IRA55-S	●			48-16	9.525	3.44	0.8	0.9	0.07	—	
	16IRG55-S	●			14-8	9.525	3.44	1.2	1.7	0.21	—	
Métrica ISO	MMT11IR100ISO-S	●		1.0		6.35	3.04	0.6	0.7	0.06	0.58	Perfil Completo
	11IR125ISO-S	●		1.25		6.35	3.04	0.8	0.9	0.08	0.72	
	11IR150ISO-S	●		1.5		6.35	3.04	0.8	1.0	0.10	0.87	
	16IR100ISO-S	●	●	1.0		9.525	3.44	0.6	0.7	0.06	0.58	
	16IR125ISO-S	●	●	1.25		9.525	3.44	0.8	0.9	0.08	0.72	
	16IR150ISO-S	●	●	1.5		9.525	3.44	0.8	1.0	0.10	0.87	
	16IR175ISO-S	●	●	1.75		9.525	3.44	0.9	1.2	0.11	1.01	
	16IR200ISO-S	●	●	2.0		9.525	3.44	1.0	1.3	0.13	1.15	
	16IR250ISO-S	●	●	2.5		9.525	3.44	1.1	1.5	0.17	1.44	
16IR300ISO-S	●	●	3.0		9.525	3.44	1.1	1.5	0.20	1.73		
UN Americana	MMT16IR160UN-S	●			16	9.525	3.44	0.9	1.1	0.11	0.92	Perfil Completo
	16IR140UN-S	●			14	9.525	3.44	0.9	1.2	0.12	1.05	
	16IR120UN-S	●			12	9.525	3.44	1.1	1.4	0.14	1.22	
Whitworth para BSW, BSP	MMT16IR190W-S	●			19	9.525	3.44	0.8	1.0	0.18	0.86	Perfil Completo
	16IR140W-S	●			14	9.525	3.44	1.0	1.2	0.25	1.16	
	16IR110W-S	●			11	9.525	3.44	1.1	1.5	0.32	1.48	
BSPT	MMT16IR190BSPT-S	●			19	9.525	3.44	0.8	0.9	0.18	0.86	Perfil Completo
	16IR140BSPT-S	●			14	9.525	3.44	1.0	1.2	0.25	1.16	
	16IR110BSPT-S	●			11	9.525	3.44	1.1	1.5	0.32	1.48	

MMT INSERTOS RETIFICADOS, CLASSE DE TOLERÂNCIA G

INSERTOS DE ROSQUEAMENTO EXTERNO

Tipo	Tolerância da Rosca	Referência para Pedido	Cobertura		Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
			VP10MF	VP15TF	mm	fios/pol.	D1	S1	Z1	Z2	Re		
Perfil Parcial 60°	—	MMT16ERA60	●	●	0.5–1.5	48–16	9.525	3.44	0.8	0.9	0.05		
		16ERG60	●	●	1.75–3.0	14–8	9.525	3.44	1.2	1.7	0.27		
		16ERAG60	●	●	0.5–3.0	48–8	9.525	3.44	1.2	1.7	0.08		
		22ERN60	●	●	3.5–5.0	7–5	12.7	4.64	1.7	2.5	0.53		
Perfil Parcial 55°	—	MMT16ERA55	●	●		48–16	9.525	3.44	0.8	0.9	0.05		
		16ERG55	●	●		14–8	9.525	3.44	1.2	1.7	0.21		
		16ERAG55	●	●		48–8	9.525	3.44	1.2	1.7	0.07		
		22ERN55	●	●		7–5	12.7	4.64	1.7	2.5	0.44		
Métrica ISO 6g	—	MMT16ER050ISO	●	●	0.5		9.525	3.44	0.6	0.4	0.06		
		16ER075ISO	●	●	0.75		9.525	3.44	0.6	0.6	0.10		
		16ER100ISO	●	●	1.0		9.525	3.44	0.7	0.7	0.16		
		16ER125ISO	●	●	1.25		9.525	3.44	0.8	0.9	0.19		
		16ER150ISO	●	●	1.5		9.525	3.44	0.8	1.0	0.23		
		16ER175ISO	●	●	1.75		9.525	3.44	0.9	1.2	0.21		
		16ER200ISO	●	●	2.0		9.525	3.44	1.0	1.3	0.31		
		16ER250ISO	●	●	2.5		9.525	3.44	1.1	1.5	0.32		
		16ER300ISO	●	●	3.0		9.525	3.44	1.2	1.6	0.46		
		22ER350ISO	●	●	3.5		12.7	4.64	1.6	2.3	0.45		
		22ER400ISO	●	●	4.0		12.7	4.64	1.6	2.3	0.52		
		22ER450ISO	●	●	4.5		12.7	4.64	1.7	2.4	0.58		
22ER500ISO	●	●	5.0		12.7	4.64	1.7	2.5	0.63				

ROSQUEAMENTO

IDENTIFICAÇÃO

MMT 16 E R 050 ISO

Designação

Diâmetro do Círculo Inscrito (mm)

11	6.35
16	9.525
22	12.7

Aplicação

E	Externa
I	Interna

Sentido de Corte

R	Direito
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Passo

050	0.5mm	A	0.5–1.5mm ou 48–16 fios/pol.
075	0.75mm		
100	1.0mm		
125	1.25mm		
150	1.5mm	G	1.75–3.0mm ou 14–8 fios/pol.
175	1.75mm		
200	2.0mm		
250	2.5mm		
300	3.0mm	AG	0.5–3.0mm ou 48–8 fios/pol.
350	3.5mm		
400	4.0mm		
450	4.5mm	N	3.5–5.0mm ou 7–5 fios/pol.
500	5.0mm		

Tipo de Rosca

60	Perfil parcial 60°
55	Perfil parcial 55°
ISO	Métrica ISO
W	Whitworth para BSW, BSP
BSPT	BSPT
UN	UN Americana
RD	DIN 405 Redonda
TR	ISO Trapezoidal 30°
ACME	ACME Americana
UNJ	UNJ
APBU	API Buttress Casing
APRD	API Round Casing & Tubing
NPT	NPT
NPTF	NPTF

● : Estoque mantido.

(Nota: 5 insertos por embalagem)

INSERTOS DE ROSQUEAMENTO INTERNO

Tipo	Tolerância da Rosca	Referência para Pedido	Cobertura		Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
			VP10MF	VP15TF			D1	S1	Z1	Z2	Re		
					mm	fios/pol.							
Perfil Parcial 60°		MMT11IRA60	●	●	0.5–1.5	48–16	6.35	3.04	0.8	0.9	0.05		
		16IRA60	●	●	0.5–1.5	48–16	9.525	3.44	0.8	0.9	0.05		
		16IRG60	●	●	1.75–3.0	14–8	9.525	3.44	1.2	1.7	0.16		
		16IRAG60	●	●	0.5–3.0	48–8	9.525	3.44	1.2	1.7	0.05		
		22IRN60	●	●	3.5–5.0	7–5	12.7	4.64	1.7	2.5	0.30		
Perfil Parcial 55°		MMT11IRA55	●	●		48–16	6.35	3.04	0.8	0.9	0.05		
		16IRA55	●	●		48–16	9.525	3.44	0.8	0.9	0.05		
		16IRG55	●	●		14–8	9.525	3.44	1.2	1.7	0.21		
		16IRAG55	●	●		48–8	9.525	3.44	1.2	1.7	0.07		
		22IRN55	●	●		7–5	12.7	4.64	1.7	2.5	0.44		
Métrica ISO 6H		MMT11IR050ISO	●	●	0.5		6.35	3.04	0.6	0.4	0.03		
		11IR075ISO	●	●	0.75		6.35	3.04	0.6	0.6	0.04		
		11IR100ISO	●	●	1.0		6.35	3.04	0.6	0.7	0.10		
		11IR125ISO	●	●	1.25		6.35	3.04	0.8	0.9	0.12		
		11IR150ISO	●	●	1.5		6.35	3.04	0.8	1.0	0.14		
		11IR175ISO	●	●	1.75		6.35	3.04	0.9	1.1	0.10		
		11IR200ISO	●	●	2.0		6.35	3.04	0.9	1.1	0.18		
		16IR050ISO	●	●	0.5		9.525	3.44	0.6	0.4	0.03		
		16IR075ISO	●	●	0.75		9.525	3.44	0.6	0.6	0.04		
		16IR100ISO	●	●	1.0		9.525	3.44	0.6	0.7	0.10		
		16IR125ISO	●	●	1.25		9.525	3.44	0.8	0.9	0.12		
		16IR150ISO	●	●	1.5		9.525	3.44	0.8	1.0	0.14		
		16IR175ISO	●	●	1.75		9.525	3.44	0.9	1.2	0.10		
		16IR200ISO	●	●	2.0		9.525	3.44	1.0	1.3	0.18		
		16IR250ISO	●	●	2.5		9.525	3.44	1.1	1.5	0.15		
		16IR300ISO	●	●	3.0		9.525	3.44	1.1	1.5	0.26		
		22IR350ISO	●	●	3.5		12.7	4.64	1.6	2.3	0.22		
		22IR400ISO	●	●	4.0		12.7	4.64	1.6	2.3	0.25		
		22IR450ISO	●	●	4.5		12.7	4.64	1.6	2.4	0.28		
	22IR500ISO	●	●	5.0		12.7	4.64	1.6	2.3	0.32			

MMT INSERTOS RETIFICADOS, CLASSE DE TOLERÂNCIA G

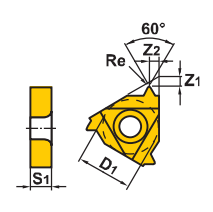
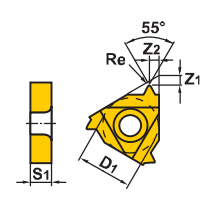
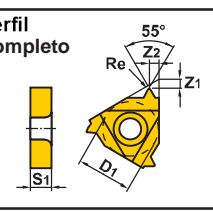
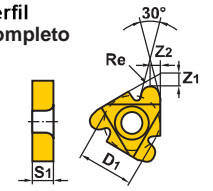
INSERTOS DE ROSQUEAMENTO EXTERNO

Tipo	Tolerância da Rosca	Referência para Pedido	Cobertura		Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
			VP10MF	VP15TF	mm	fios/pol.	D1	S1	Z1	Z2	Re		
UN Americana	2A	MMT16ER320UN	●			32	9.525	3.44	0.6	0.6	0.09	0.49	
		16ER280UN	●			28	9.525	3.44	0.6	0.7	0.10	0.56	
		16ER240UN	●			24	9.525	3.44	0.7	0.8	0.16	0.65	
		16ER200UN	●			20	9.525	3.44	0.8	0.9	0.19	0.78	
		16ER180UN	●			18	9.525	3.44	0.8	1.0	0.21	0.87	
		16ER160UN	●	●		16	9.525	3.44	0.9	1.1	0.24	0.97	
		16ER140UN	●	●		14	9.525	3.44	1.0	1.2	0.22	1.11	
		16ER130UN	●			13	9.525	3.44	1.0	1.3	0.24	1.20	
		16ER120UN	●	●		12	9.525	3.44	1.1	1.4	0.32	1.30	
		16ER110UN	●			11	9.525	3.44	1.1	1.5	0.29	1.42	
		16ER100UN	●			10	9.525	3.44	1.1	1.5	0.32	1.56	
		16ER090UN	●			9	9.525	3.44	1.2	1.7	0.35	1.73	
		16ER080UN	●			8	9.525	3.44	1.2	1.6	0.48	1.95	
		22ER070UN	●			7	12.7	4.64	1.6	2.3	0.47	2.22	
22ER060UN	●			6	12.7	4.64	1.6	2.3	0.53	2.60			
22ER050UN	●			5	12.7	4.64	1.7	2.5	0.64	3.12			
Whitworth para BSW, BSP	Classe A Média	MMT16ER280W	●			28	9.525	3.44	0.6	0.7	0.09	0.58	
		16ER260W	●			26	9.525	3.44	0.7	0.8	0.10	0.63	
		16ER200W	●			20	9.525	3.44	0.8	0.9	0.18	0.81	
		16ER190W	●	●		19	9.525	3.44	0.8	1.0	0.19	0.86	
		16ER180W	●			18	9.525	3.44	0.8	1.0	0.20	0.90	
		16ER160W	●			16	9.525	3.44	0.9	1.1	0.23	1.02	
		16ER140W	●	●		14	9.525	3.44	1.0	1.2	0.26	1.16	
		16ER120W	●			12	9.525	3.44	1.1	1.4	0.30	1.36	
		16ER110W	●	●		11	9.525	3.44	1.1	1.5	0.33	1.48	
		16ER100W	●			10	9.525	3.44	1.1	1.5	0.37	1.63	
		16ER090W	●			9	9.525	3.44	1.2	1.7	0.34	1.81	
		16ER080W	●			8	9.525	3.44	1.2	1.5	0.39	2.03	
		22ER070W	●			7	12.7	4.64	1.6	2.3	0.46	2.32	
		22ER060W	●			6	12.7	4.64	1.6	2.3	0.53	2.71	
22ER050W	●			5	12.7	4.64	1.7	2.4	0.66	3.25			
BSPT	BSPT Standard	MMT16ER280BSPT	●			28	9.525	3.44	0.6	0.6	0.09	0.58	
		16ER190BSPT	●	●		19	9.525	3.44	0.8	0.9	0.14	0.86	
		16ER140BSPT	●	●		14	9.525	3.44	1.0	1.2	0.26	1.16	
		16ER110BSPT	●	●		11	9.525	3.44	1.1	1.5	0.33	1.48	
DIN 405 Redonda	7h	MMT16ER100RD	●			10	9.525	3.44	1.1	1.2	0.60	1.27	
		16ER080RD	●			8	9.525	3.44	1.4	1.3	0.75	1.59	
		16ER060RD	●			6	9.525	3.44	1.5	1.7	1.00	2.12	
		22ER040RD	●			4	9.525	3.44	2.2	2.3	1.51	3.18	

● : Estoque mantido.

(Nota: 5 insertos por embalagem)

INSERTOS DE ROSQUEAMENTO INTERNO

Tipo	Tolerância da Rosca	Referência para Pedido	Cobertura		Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
			VP10MF	VP15TF	mm	fios/pol.	D1	S1	Z1	Z2	Re		
UN Americana	2B	MMT11R320UN	●			32	6.35	3.04	0.6	0.6	0.04	0.46	Perfil Completo 
		11R280UN	●			28	6.35	3.04	0.6	0.7	0.05	0.52	
		11R240UN	●			24	6.35	3.04	0.7	0.8	0.09	0.61	
		11R200UN	●			20	6.35	3.04	0.8	0.9	0.11	0.73	
		11R180UN	●			18	6.35	3.04	0.8	1.0	0.12	0.81	
		11R160UN	●			16	6.35	3.04	0.9	1.1	0.14	0.92	
		11R140UN	●			14	6.35	3.04	0.9	1.1	0.11	1.05	
		16R320UN	●			32	9.525	3.44	0.6	0.6	0.04	0.46	
		16R280UN	●			28	9.525	3.44	0.6	0.7	0.05	0.52	
		16R240UN	●			24	9.525	3.44	0.7	0.8	0.09	0.61	
		16R200UN	●			20	9.525	3.44	0.8	0.9	0.11	0.73	
		16R180UN	●			18	9.525	3.44	0.8	1.0	0.12	0.81	
		16R160UN	●	●		16	9.525	3.44	0.9	1.1	0.14	0.92	
		16R140UN	●	●		14	9.525	3.44	0.9	1.2	0.11	1.05	
		16R130UN	●			13	9.525	3.44	1.0	1.3	0.10	1.13	
		16R120UN	●	●		12	9.525	3.44	1.1	1.4	0.18	1.22	
		16R110UN	●			11	9.525	3.44	1.1	1.5	0.13	1.33	
		16R100UN	●			10	9.525	3.44	1.1	1.5	0.15	1.47	
		16R090UN	●			9	9.525	3.44	1.2	1.7	0.17	1.63	
		16R080UN	●			8	9.525	3.44	1.1	1.5	0.27	1.83	
22R070UN	●			7	12.7	4.64	1.6	2.3	0.23	2.09			
22R060UN	●			6	12.7	4.64	1.6	2.3	0.26	2.44			
22R050UN	●			5	12.7	4.64	1.6	2.3	0.32	2.93			
Whitworth para BSW, BSP	Classe A Média	MMT11R190W	●			19	6.35	3.04	0.8	1.0	0.19	0.86	Perfil Completo 
		11R140W	●			14	6.35	3.04	0.9	1.1	0.26	1.16	
		16R280W	●			28	9.525	3.44	0.6	0.7	0.09	0.58	
		16R260W	●			26	9.525	3.44	0.7	0.8	0.10	0.63	
		16R200W	●			20	9.525	3.44	0.8	0.9	0.18	0.81	
		16R190W	●	●		19	9.525	3.44	0.8	1.0	0.19	0.86	
		16R180W	●			18	9.525	3.44	0.8	1.0	0.20	0.90	
		16R160W	●			16	9.525	3.44	0.9	1.1	0.23	1.02	
		16R140W	●	●		14	9.525	3.44	1.0	1.2	0.26	1.16	
		16R120W	●			12	9.525	3.44	1.1	1.4	0.30	1.36	
		16R110W	●	●		11	9.525	3.44	1.1	1.5	0.33	1.48	
		16R100W	●			10	9.525	3.44	1.1	1.5	0.37	1.63	
		16R090W	●			9	9.525	3.44	1.2	1.7	0.34	1.81	
		16R080W	●			8	9.525	3.44	1.2	1.5	0.39	2.03	
		22R070W	●			7	12.7	4.64	1.6	2.3	0.46	2.32	
22R060W	●			6	12.7	4.64	1.6	2.3	0.53	2.71			
22R050W	●			5	12.7	4.64	1.7	2.4	0.66	3.25			
BSPT	BSPT Standard	MMT11R190BSPT	●			19	6.35	3.04	0.8	0.9	0.14	0.86	Perfil Completo 
		11R140BSPT	●			14	6.35	3.04	0.9	1.0	0.26	1.16	
		16R190BSPT	●	●		19	9.525	3.44	0.8	0.9	0.14	0.86	
		16R140BSPT	●	●		14	9.525	3.44	1.0	1.2	0.26	1.16	
		16R110BSPT	●	●		11	9.525	3.44	1.1	1.5	0.33	1.48	
DIN 405 Redonda	7H	MMT16R100RD	●			10	9.525	3.44	1.1	1.2	0.55	1.27	Perfil Completo 
		16R080RD	●			8	9.525	3.44	1.4	1.4	0.70	1.59	
		16R060RD	●			6	9.525	3.44	1.4	1.5	0.93	2.12	
		22R040RD	●			4	12.7	4.64	2.2	2.3	1.40	3.18	

ROSQUEAMENTO

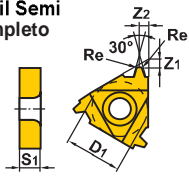
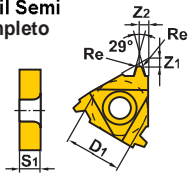
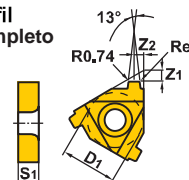
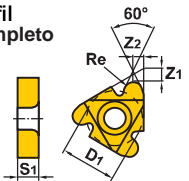
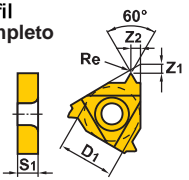
INSERTOS DE ROSQUEAMENTO EXTERNO

Tipo	Tolerância da Rosca	Referência para Pedido	Cobertura VP10MF	Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
				mm	fios/pol.	D1	S1	Z1	Z2	Re		
ISO Trapezoidal 30°	7e	MMT16ER150TR	●	1.5		9.525	3.44	1.0	1.1	0.08	0.90	Perfil Semi Completo
		16ER200TR	●	2.0		9.525	3.44	1.1	1.3	0.15	1.25	
		16ER300TR	●	3.0		9.525	3.44	1.3	1.5	0.15	1.75	
		22ER400TR	●	4.0		12.7	4.64	1.7	1.9	0.15	2.25	
		22ER500TR	●	5.0		12.7	4.64	2.1	2.5	0.15	2.75	
ACME Americana	3G	MMT16ER120ACME	●		12	9.525	3.44	1.1	1.2	0.08	1.19	Perfil Semi Completo
		16ER100ACME	●		10	9.525	3.44	1.3	1.4	0.08	1.52	
		16ER080ACME	●		8	9.525	3.44	1.4	1.5	0.10	1.84	
		22ER060ACME	●		6	12.7	4.64	1.8	2.1	0.10	2.37	
		22ER050ACME	●		5	12.7	4.64	2.0	2.3	0.10	2.79	
UNJ	3A	MMT16ER320UNJ	●		32	9.525	3.44	0.6	0.7	0.13	0.46	Perfil Completo
		16ER280UNJ	●		28	9.525	3.44	0.7	0.7	0.14	0.52	
		16ER240UNJ	●		24	9.525	3.44	0.7	0.8	0.17	0.61	
		16ER200UNJ	●		20	9.525	3.44	0.8	0.9	0.20	0.73	
		16ER180UNJ	●		18	9.525	3.44	0.8	1.0	0.22	0.81	
		16ER160UNJ	●		16	9.525	3.44	0.9	1.1	0.25	0.92	
		16ER140UNJ	●		14	9.525	3.44	1.0	1.2	0.29	1.05	
		16ER120UNJ	●		12	9.525	3.44	1.1	1.3	0.33	1.22	
		16ER100UNJ	●		10	9.525	3.44	1.2	1.5	0.40	1.47	
		16ER080UNJ	●		8	9.525	3.44	1.2	1.6	0.51	1.83	
API Buttress Casing	API Standard	MMT22ER050APBU	●		5	12.7	4.64	3.1	1.9	0.18	1.55	Perfil Completo R0.74
API Round Casing & Tubing	API RD Standard	MMT16ER100APRD	●		10	9.525	3.44	1.2	1.4	0.34	1.41	Perfil Completo
		16ER080APRD	●		8	9.525	3.44	1.3	1.5	0.41	1.81	
NPT Americana	NPT Standard	MMT16ER270NPT	●		27	9.525	3.44	0.7	0.8	0.04	0.66	Perfil Completo
		16ER180NPT	●		18	9.525	3.44	0.8	1.0	0.08	1.01	
		16ER140NPT	●		14	9.525	3.44	0.9	1.2	0.09	1.33	
		16ER115NPT	●		11.5	9.525	3.44	1.1	1.5	0.11	1.64	
		16ER080NPT	●		8	9.525	3.44	1.3	1.8	0.14	2.42	
NPTF Americana	Classe 2	MMT16ER270NPTF	●		27	9.525	3.44	0.7	0.8	0.04	0.64	Perfil Completo
		16ER180NPTF	●		18	9.525	3.44	0.8	1.0	0.04	1.00	
		16ER140NPTF	●		14	9.525	3.44	0.9	1.2	0.04	1.35	
		16ER115NPTF	●		11.5	9.525	3.44	1.1	1.5	0.04	1.63	
		16ER080NPTF	●		8	9.525	3.44	1.3	1.8	0.04	2.38	

● : Estoque mantido.

(Nota: 5 insertos por embalagem)

INSERTOS DE ROSQUEAMENTO INTERNO

Tipo	Tolerância da Rosca	Referência para Pedido	Cobertura VP10MF	Passo		Dimensões (mm)					Profund. de Corte Total (mm)	Geometria
				mm	fios/pol.	D1	S1	Z1	Z2	Re		
ISO Trapezoidal 30°	7H	MMT16R150TR	●	1.5		9.525	3.44	1.0	1.1	0.08	0.90	Perfil Semi Completo 
		16R200TR	●	2.0		9.525	3.44	1.1	1.3	0.15	1.25	
		16R300TR	●	3.0		9.525	3.44	1.3	1.5	0.15	1.75	
		22R400TR	●	4.0		12.7	4.64	1.7	1.9	0.15	2.25	
		22R500TR	●	5.0		12.7	4.64	2.1	2.5	0.15	2.75	
ACME Americana	3G	MMT16R120ACME	●		12	9.525	3.44	1.2	1.3	0.05	1.19	Perfil Semi Completo 
		16R100ACME	●		10	9.525	3.44	1.2	1.3	0.08	1.52	
		16R080ACME	●		8	9.525	3.44	1.4	1.5	0.10	1.84	
		22R060ACME	●		6	12.7	4.64	1.8	2.1	0.10	2.37	
		22R050ACME	●		5	12.7	4.64	2.0	2.3	0.10	2.79	
UNJ												<p>Quando usar uma rosca interna UNJ, faça um furo com o diâmetro apropriado. Então usine com 60° UN Americana. Neste caso, um inserto de perfil completo não pode ser utilizado.</p>
API Buttress Casing	API Standard	MMT22R050APBU	●		5	12.7	4.64	2.8	1.9	0.18	1.55	Perfil Completo 
API Round Casing & Tubing	API RD Standard	MMT16R100APRD 16R080APRD	● ●		10 8	9.525 9.525	3.44 3.44	1.2 1.3	1.4 1.5	0.34 0.41	1.41 1.81	Perfil Completo 
NPT Americana	NPT Standard	MMT16R270NPT 16R180NPT 16R140NPT 16R115NPT 16R080NPT	● ● ● ● ●		27 18 14 11.5 8	9.525 9.525 9.525 9.525 9.525	3.44 3.44 3.44 3.44 3.44	0.7 0.8 0.9 1.1 1.3	0.8 1.0 1.2 1.5 1.8	0.04 0.08 0.09 0.11 0.14	0.66 1.01 1.33 1.64 2.42	Perfil Completo 
NPTF Americana	Classe 2	MMT16R140NPTF 16R115NPTF 16R080NPTF	● ● ●		14 11.5 8	9.525 9.525 9.525	3.44 3.44 3.44	0.9 1.1 1.3	1.2 1.5 1.8	0.04 0.04 0.04	1.35 1.63 2.38	Perfil Completo 