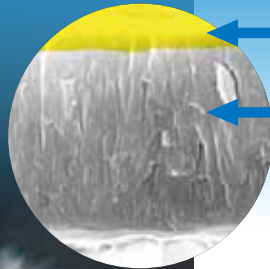
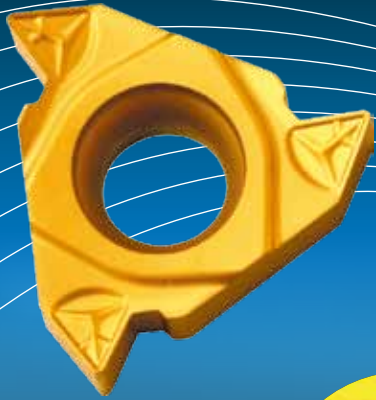


A Turning Drehen A1-A310	General Turning Allgemeine Drehbearbeitung	A 1 - A 253
	Parting and Grooving Ab- und Einstechen	A 254 - A 290
	Thread Turning Gewindedrehen	A 291 - A 323
B Milling Fräsen B1-B290	Milling Indexable Tools Fräsen - WSP· Werkzeuge	B 1 - B 187
	Milling - Solid Carbide Endmills Fräsen VHM - Schafffräser	B 188 - B 374
C Drilling Bohren C1-C147	Drilling - Solid Carbide Drills Bohren - VHM Bohrer	C 6 - C 93
	Drilling Indexable Tools Bohren - WSP· Werkzeuge	C 95 - C 105
Reaming Reiben	Reaming Reiben	C 106 - C 116
Threading Gewinde	Threading - Solid Carbide Tools Gewinde - VHM Gewindebohrer	C 118 - C 124
	Solid carbide Threading end mills Gewindefräsen - VHM Gewindefräser	C 125 - C 128
D	Tooling Systems Werkzeugsysteme	D 1 - D 38
E	General Technical Information Allgemeine Technische Informationen	E 1 - E 20
Index		01 - 03



The golden TiN Coating reduces friction and provides wear identification.
Die goldene TiN Beschichtung reduziert die Reibung und ermöglicht die Verschleiß Identifikation.

Inner layer nc-TiAlN coating provides an excellent wear resistance.
Die innere Beschichtung nc-TiAlN ermöglicht eine exzellente Verschleißfestigkeit.

YBG201

PVD coating alloy has good toughness and wear resistance, it's the **unique** threading grade for machining of carbon steel, stainless steel and cast iron etc.

PVD Multibeschichtung mit hoher Härte und Verschleißfestigkeit. Es ist die ZCC Gewindesorte für die Bearbeitung von Kohlenstoff-, rostfreien Stahl und Grauguss. etc.

The functions and applications of Wiper for threading inserts Die Funktionen und Anwendungen der Wiper Schneidplatten

Reduction of machining processes.
The threading diameter will be machined during threading operation. Good quality and dimensions.

Reduziert die Bearbeitungsschritte.
Der Gewindedurchmesser wird während des Gewindegewindeschneidens in einem Arbeitsgang bearbeitet. Gute Oberfläche und Maßhaltigkeit.

Design characteristics chip breaker Spezielle Spanbrecherform

The ZCC CT Chip-breaker

The special chip breaker design ensured an excellent chip controlled, during machining **different** materials.

Der ZCC CT Spanbrecher

Der speziell entwickelter Spanbrecher formt und kontrolliert die Spanbildung in der Form, dass auch bei der Bearbeitung unterschiedlicher Werkstückstoffe, eine exzellente Spankontrolle entsteht.



Threading inserts code key Kennzeichnung für Gewindeplatten


Hand of tools Ausführung
R Right Hand / Rechts
L Left Hand / Links

The theoretical value of edge length of insert Plattenabmessungen
22 IC=6.35mm
16 IC=9.525mm
11 IC=12.7mm

Type of machining Bearbeitungsart
W External threading Außengewinde
N Internal threading Innengewinde

Thread profile Gewindeprofil
GM 60 ISO metric threads <i>Metrisch 60°</i>
60 General pitch threads partial profile 60° <i>Teilprofil 60°</i>
55 General pitch threads partial profile 55° <i>Teilprofil 55°</i>
W whitworth threads <i>Whitworth Rohrgewinde</i>
UN Unified Threads(American standard) <i>UN 60°</i>
BSPT British standard taper pipe threads <i>BSPT Rohrgewinde</i>
NPT American standard taper pipe threads <i>Amerikanisches Rohrgewinde</i>

R T 22.01 W-3.50 GM (P)

Insert shape Plattenform	
 T	others Z

Number of teeth per cutting edge Anzahl Zähne pro Schneidkante
01 One tooth per cutting edge / 1 Zahn
02 Two teeth per cutting edge / 2 Zähne

Pitch code Steigung
Omni-tooth(Range of pitch indicated in numbers)
mm TPI
0.35-9.0 72-2
V-tooth (Range of pitch indicated in letters)
<i>V-Profil (Steigungsbereich)</i>
A 0.5-1.5 48-46
AG 0.5-3.0 48-8
G 1.75-3.0 14-8
N 3.5-5.0 7-5
Q 5.5-6.0 41/2-4

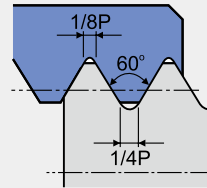
Chip breakers are indicated by P
(P is omitted when it is metric thread)

Turning · Drehen

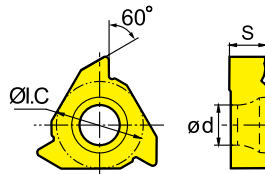
Threading tools · Gewindedrehwerkzeuge

ISO metric thread insert (full profil)
Allgemeiner Einsatz (Vollprofil)

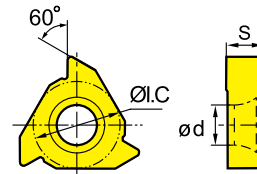
ISO 965-1980 DIN 13
GB-T 197-2003 tolerances: 6g-6H



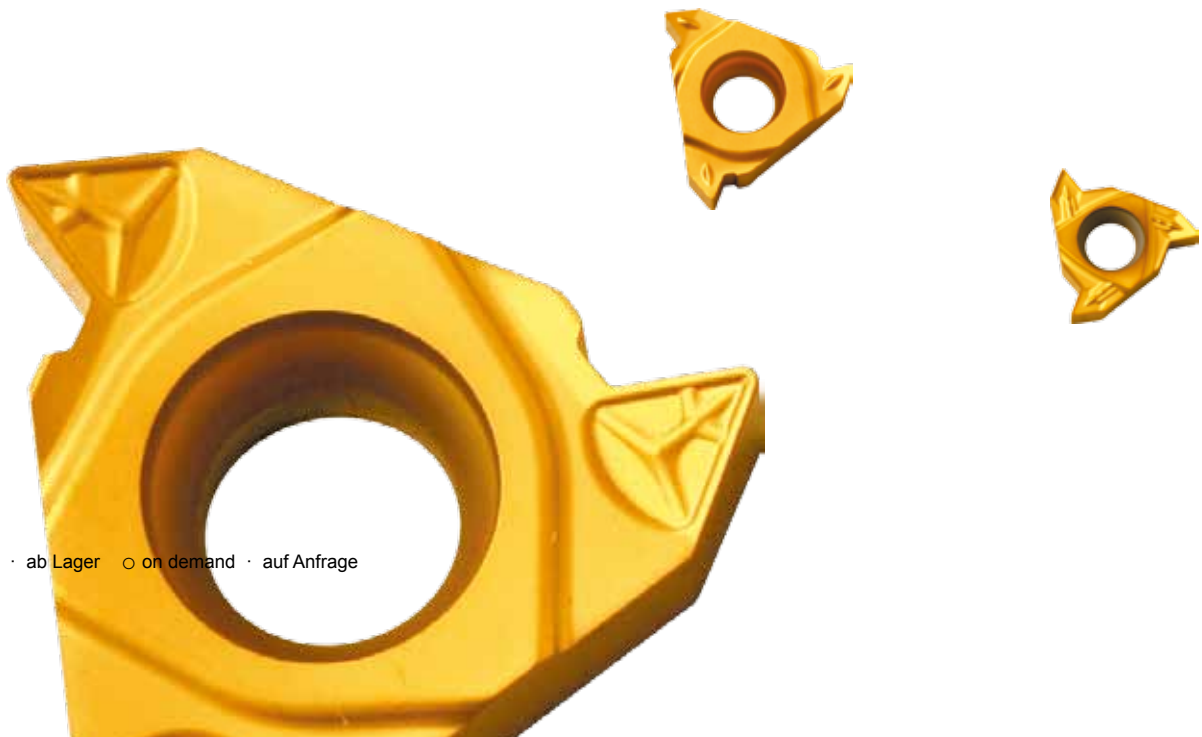
R



L



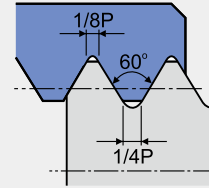
	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
External · Außen	RT16.01W-1.00GM	LT16.01W-1.00GM	1.00	3.97	9.525	4.4	●	●
	RT16.01W-1.25GM	LT16.01W-1.25GM	1.25	3.97	9.525	4.4	●	●
	RT16.01W-1.50GM	LT16.01W-1.50GM	1.50	3.97	9.525	4.4	●	●
	RT16.01W-1.75GM	LT16.01W-1.75GM	1.75	3.97	9.525	4.4	●	●
	RT16.01W-2.00GM	LT16.01W-2.00GM	2.00	3.97	9.525	4.4	●	●
	RT16.01W-2.50GM	LT16.01W-2.50GM	2.50	3.97	9.525	4.4	●	●
	RT16.01W-3.00GM	LT16.01W-3.00GM	3.00	3.97	9.525	4.4	●	●
	RT22.01W-3.50GM	LT22.01W-3.50GM	3.50	5.56	12.7	5.5	●	●
	RT22.01W-4.00GM	LT22.01W-4.00GM	4.00	5.56	12.7	5.5	●	●
	RT22.01W-4.50GM	LT22.01W-4.50GM	4.50	5.56	12.7	5.5	●	○
	RT22.01W-5.00GM	LT22.01W-5.00GM	5.00	5.56	12.7	5.5	●	●
	RT22.01W-5.50GM	LT22.01W-5.50GM	5.50	5.56	12.7	5.5	●	○
RT22.01W-6.00GM	LT22.01W-6.00GM	6.00	5.56	12.7	5.5	●	●	



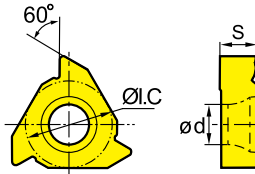
● ex stock · ab Lager ○ on demand · auf Anfrage

ISO metric thread insert (full profil)
Allgemeiner Einsatz (Vollprofil)

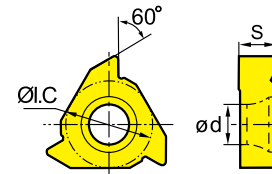
ISO 965-1980 DIN 13
GB·T 197-2003 tolerances: 6g·6H



R



L



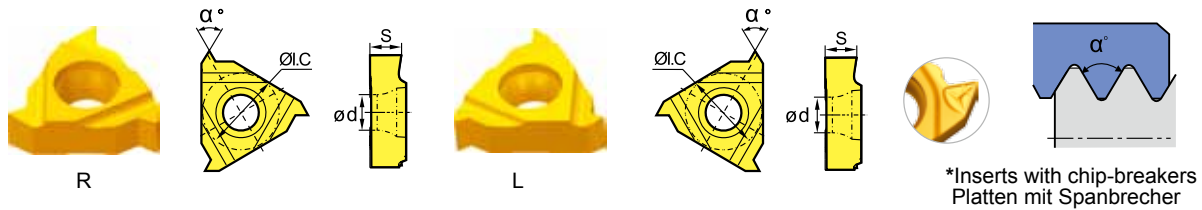
	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch·Steigung (T.P.I.)	S	ØI.C	ød	YBG201	
							R	L
Internal-Innen	RT11.01N-1.00GM	LT11.01N-1.00GM	1.00	3.18	6.35	2.8	●	●
	RT11.01N-1.25GM	LT11.01N-1.25GM	1.25	3.18	6.35	2.8	●	●
	RT11.01N-1.50GM	LT11.01N-1.50GM	1.50	3.18	6.35	2.8	●	●
	RT11.01N-1.75GM	LT11.01N-1.75GM	1.75	3.18	6.35	2.8	●	○
	RT11.01N-2.00GM	LT11.01N-2.00GM	2.00	3.18	6.35	2.8	●	●
	RT16.01N-1.00GM	LT16.01N-1.00GM	1.00	3.97	9.525	4.4	●	●
	RT16.01N-1.25GM	LT16.01N-1.25GM	1.25	3.97	9.525	4.4	●	●
	RT16.01N-1.50GM	LT16.01N-1.50GM	1.50	3.97	9.525	4.4	●	●
	RT16.01N-1.75GM	LT16.01N-1.75GM	1.75	3.97	9.525	4.4	●	●
	RT16.01N-2.00GM	LT16.01N-2.00GM	2.00	3.97	9.525	4.4	●	●
	RT16.01N-2.50GM	LT16.01N-2.50GM	2.5	3.97	9.525	4.4	●	●
	RT16.01N-3.00GM	LT16.01N-3.00GM	3.00	3.97	9.525	4.4	●	●
	RT22.01N-3.50GM	LT22.01N-3.50GM	3.50	5.56	12.7	5.5	●	●
	RT22.01N-4.00GM	LT22.01N-4.00GM	4.00	5.56	12.7	5.5	●	●
	RT22.01N-4.50GM	LT22.01N-4.50GM	4.50	5.56	12.7	5.5	●	●
	RT22.01N-5.00GM	LT22.01N-5.00GM	5.00	5.56	12.7	5.5	●	●
RT22.01N-5.50GM	LT22.01N-5.50GM	5.50	5.56	12.7	5.5	●	○	
RT22.01N-6.00GM	LT22.01N-6.00GM	6.00	5.56	12.7	5.5	●	●	

● ex stock · ab Lager ○ on demand · auf Anfrage

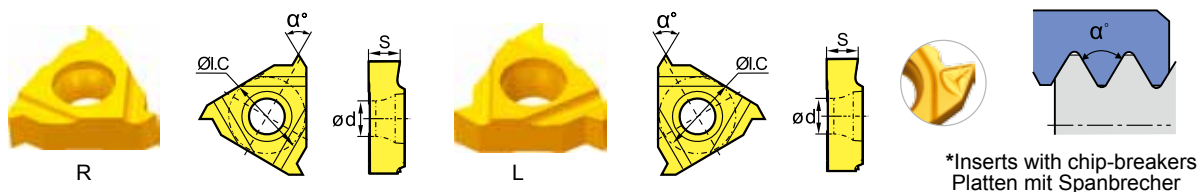
Turning · Drehen

Threading tools · Gewindedrehwerkzeuge

General pitch thread insert (partial profil)
Allgemeiner Einsatz (Teilprofil)



		Type · Typ		Dimension (mm) Abmessung				Grade · Sorte		
		Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	α°	YBG201	
		R	L						R	L
External · Außen	60°	RT16.01W-A60	LT16.01W-A60	0.5-1.5(48-16)	3.97	9.525	4.4	60°	●	●
		RT16.01W-G60	LT16.01W-G60	1.75-3.0(14-8)	3.97	9.525	4.4	60°	●	●
		RT16.01W-G60P*	LT16.01W-G60P*	1.75-3.0(14-8)	3.97	9.525	4.4	60°	○	●
		RT16.01W-AG60	LT16.01W-AG60	0.5-3.0(48-8)	3.97	9.525	4.4	60°	●	●
		RT22.01W-N60	LT22.01W-N60P*	3.5-5.0(7-5)	5.56	12.7	5.5	60°	●	○
	55°	RT16.01W-A55	LT16.01W-A55	0.5-1.5(48-16)	3.97	9.525	4.4	55°	○	●
		RT16.01W-G55	LT16.01W-G55	1.75-3.0(14-8)	3.97	9.525	4.4	55°	●	●
		RT16.01W-G55P*	LT16.01W-G55P*	1.75-3.0(14-8)	3.97	9.525	4.4	55°	●	●
		RT16.01W-AG55	LT16.01W-AG55	0.5-3.0(48-8)	3.97	9.525	4.4	55°	●	○
		RT22.01W-N55P*	LT22.01W-N55	3.5-5.0(7-5)	5.56	12.7	5.5	55°	○	○

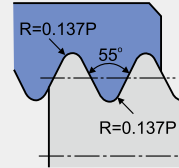


		Type · Typ		Dimension (mm) Abmessung				Grade · Sorte		
		Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	α°	YBG201	
		R	L						R	L
Internal · Innen	60°	RT16.01N-A60	LT16.01N-A60	0.5-1.5 (48-16)	3.97	9.525	4.4	60°	●	○
		RT16.01N-G60	LT16.01N-G60	1.75-3.0	3.97	9.525	4.4	60°	●	○
		RT16.01N-G60P*	LT16.01N-G60P*	1.75-3.0	3.97	9.525	4.4	60°	○	○
		RT16.01N-AG60	LT16.01N-AG60	0.5-3.0 (48-8)	3.97	9.525	4.4	60°	●	○
		RT22.01N-N60	LT22.01N-N60	3.5-5.0 (7-5)	5.56	12.7	5.5	60°	○	○
	55°	RT16.01N-A55	LT16.01N-A55	0.5-1.5(48-16)	3.97	9.525	4.4	55°	○	○
		RT16.01N-G55	LT16.01N-G55	1.75-3.0(14-8)	3.97	9.525	4.4	55°	●	○
		RT16.01N-G55P*	LT16.01N-G55P*	1.75-3.0(14-8)	3.97	9.525	4.4	55°	●	●
		RT16.01N-AG55	LT16.01N-AG55	0.5-3.0(48-8)	3.97	9.525	4.4	55°	○	●
		RT22.01N-N55	LT22.01N-N55	3.5-5.0(7-5)	5.56	12.7	5.5	55°	○	○

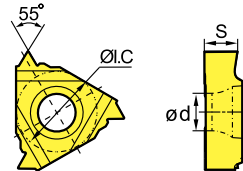
● ex stock · ab Lager ○ on demand · auf Anfrage

Withworth thread insert
Withworth Rohrgewinde

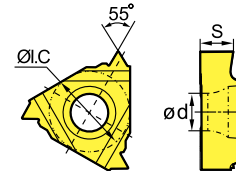
ISO 228-1:1982,
DIN 259, B.S.84:1956
tolerances:Medium class A



R



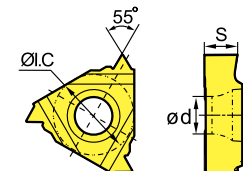
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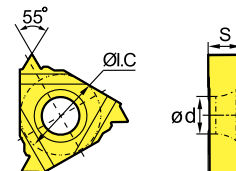
	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
External · Außen	RT16.01W-8W	LT16.01W-8W	8	3.97	9.525	4.4	●	●
	RT16.01W-9W	LT16.01W-9W	9	3.97	9.525	4.4	●	●
	RT16.01W-10W	LT16.01W-10W	10	3.97	9.525	4.4	●	●
	RT16.01W-11W	LT16.01W-11W	11	3.97	9.525	4.4	●	●
	RT16.01W-12W	LT16.01W-12W	12	3.97	9.525	4.4	●	●
	RT16.01W-14W	LT16.01W-14W	14	3.97	9.525	4.4	●	●
	RT16.01W-16W	LT16.01W-16W	16	3.97	9.525	4.4	●	●



R



L



	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
Internal · Innen	RT16.01N-8W	LT16.01N-8W	8	3.97	9.525	4.4	●	●
	RT16.01N-9W	LT16.01N-9W	9	3.97	9.525	4.4	●	●
	RT16.01N-10W	LT16.01N-10W	10	3.97	9.525	4.4	●	●
	RT16.01N-11W	LT16.01N-11W	11	3.97	9.525	4.4	●	●
	RT16.01N-12W	LT16.01N-12W	12	3.97	9.525	4.4	●	●
	RT16.01N-14W	LT16.01N-14W	14	3.97	9.525	4.4	●	●
	RT16.01N-16W	LT16.01N-16W	16	3.97	9.525	4.4	●	●

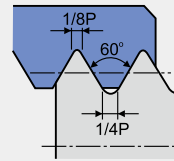
● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

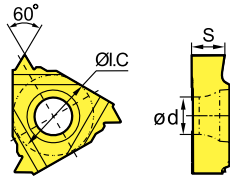
Threading tools · Gewindedrehwerkzeuge

UN full profile · UN Vollprofil

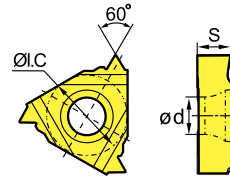
ASME B1.1-1989
tolerances: 2A · 2B



R



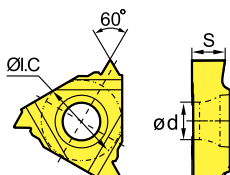
L



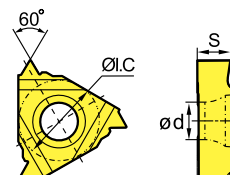
	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
External · Außen	RT16.01W-8UN	LT16.01W-8UN	8	3.97	9.525	4.4	○	○
	RT16.01W-10UN	LT16.01W-10UN	10	3.97	9.525	4.4	●	●
	RT16.01W-12UN	LT16.01W-12UN	12	3.97	9.525	4.4	●	●
	RT16.01W-14UN	LT16.01W-14UN	14	3.97	9.525	4.4	●	●
	RT16.01W-16UN	LT16.01W-16UN	16	3.97	9.525	4.4	●	●
	RT16.01W-18UN	LT16.01W-18UN	18	3.97	9.525	4.4	●	●
	RT16.01W-20UN	LT16.01W-20UN	20	3.97	9.525	4.4	●	●



R



L

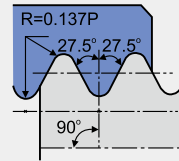


	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
Internal · Innen	RT16.01N-8UN	LT16.01N-8UN	8	3.97	9.525	4.4	○	○
	RT16.01N-10UN	LT16.01N-10UN	10	3.97	9.525	4.4	●	●
	RT16.01N-12UN	LT16.01N-12UN	12	3.97	9.525	4.4	●	●
	RT16.01N-14UN	LT16.01N-14UN	14	3.97	9.525	4.4	●	●
	RT16.01N-16UN	LT16.01N-16UN	16	3.97	9.525	4.4	●	●
	RT16.01N-18UN	LT16.01N-18UN	18	3.97	9.525	4.4	●	●
	RT16.01N-20UN	LT16.01N-20UN	20	3.97	9.525	4.4	●	●

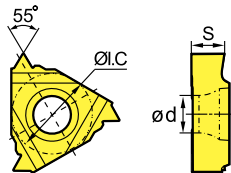
● ex stock · ab Lager ○ on demand · auf Anfrage

British standard taper pipe thread insert
Rohrgewinde für Dampf-, Gas- und Wasserleitungen

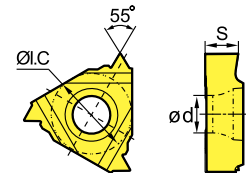
ISO 7·1:1994
B.S.21:1985
Standard BSPT



R



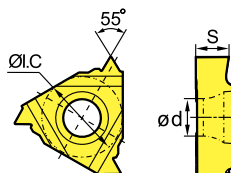
L



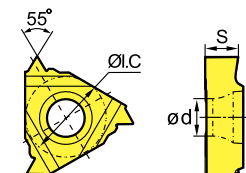
	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
External · Außen	RT16.01W-11 BSPT	LT16.01W-11 BSPT	11	3.97	9.525	4.4	●	●
	RT16.01W-14 BSPT	LT16.01W-14 BSPT	14	3.97	9.525	4.4	●	●
	RT16.01W-19 BSPT	LT16.01W-19 BSPT	19	3.97	9.525	4.4	●	●
	RT16.01W-28 BSPT	LT16.01W-28 BSPT	28	3.97	9.525	4.4	●	●



R



L



	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch · Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
Internal · Innen	RT16.01N-11 BSPT	LT16.01N-11 BSPT	11	3.97	9.525	4.4	●	●
	RT16.01N-14 BSPT	LT16.01N-14 BSPT	14	3.97	9.525	4.4	●	●
	RT16.01N-19 BSPT	LT16.01N-19 BSPT	19	3.97	9.525	4.4	●	●
	RT16.01N-28 BSPT	LT16.01N-28 BSPT	28	3.97	9.525	4.4	●	●

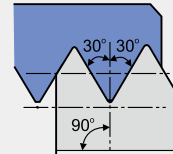
● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Threading tools · Gewindedrehwerkzeuge

NPT American standard taper pipe with a shoulder
Amerikanisches kegeliges Rohrgewinde

ASME B1.20.1-1983
Standard NPT



	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch-Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
External · Außen	RT16.01W-8 NPT	LT16.01W-8NPT	8	3.97	9.525	4.4	○	○
	RT16.01W-11.5 NPT	LT16.01W-11.5NPT	11.5	3.97	9.525	4.4	○	○
	RT16.01W-14 NPT	LT16.01W-14NPT	14	3.97	9.525	4.4	○	○
	RT16.01W-18 NPT	LT16.01W-18NPT	18	3.97	9.525	4.4	○	○
	RT16.01W-27 NPT	LT16.01W-27NPT	27	3.97	9.525	4.4	○	○



	Type · Typ		Dimension (mm) Abmessung				Grade · Sorte	
	Right hand Rechtsausführung	Left hand Linksausführung	Pitch-Steigung (T.P.i)	S	ØI.C	ød	YBG201	
							R	L
Internal · Innen	RT16.01N-8 NPT	LT16.01N-8 NPT	8	3.97	9.525	4.4	○	○
	RT16.01N-11.5 NPT	LT16.01N-11.5 NPT	10	3.97	9.525	4.4	○	○
	RT16.01N-14 NPT	LT16.01N-14 NPT	12	3.97	9.525	4.4	○	○
	RT16.01N-18 NPT	LT16.01N-18 NPT	18	3.97	9.525	4.4	○	○
	RT16.01N-27 NPT	LT16.01N-27 NPT	20	3.97	9.525	4.4	○	○

● ex stock · ab Lager ○ on demand · auf Anfrage