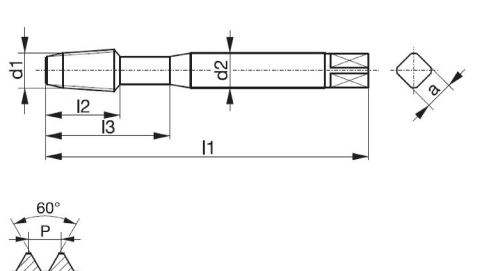
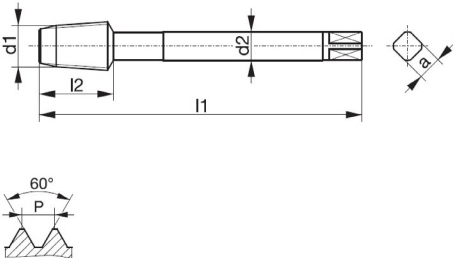


Typenbezeichnung / type / type / tipo / tipo		VARIO 1 HZ	AVANT 1 VA15																																																																																																					
NPT-Amerikanisches Standard Rohrgewinde ASME B1.20.1 kegelig 1:16 American standard taper pipe thread ASME B1.20.1 tapered 1:16 Filetage conique américain tube ASME B1.20.1 conique 1:16 Filettatura conica americana ASME B1.20.1 conico 1:16 Rosca cónica para tubo norma americana ASME B1.20.1 cónico 1:16 																																																																																																								
Bohrung / bore / type de trou / fori / tipos de agujeros																																																																																																								
Einsatzgebiet / application / application adatto per lavorazione di / aplicación		1.1-1.5 / 2.1-2.3 3.1-3.3 / 4.4 5.1-5.3	1.1-1.5 / 2.1-2.3 3.1-3.3 / 4.1-4.5																																																																																																					
Ausführung / model / exécution / modello / modelo		AZ TIN	VAP																																																																																																					
Werkstoff / tool material / substrat / materiale / material		HSSE-PM	HSSE-PM																																																																																																					
Gewindetoleranz / thread tolerance / tolérance du filetage / tolleranza di filettatura / tolerancia de la rosca																																																																																																								
Schafttoleranz / shank tolerance / tolérance de queue / tolleranza del gambo / tolerancia del mango		h9	h9																																																																																																					
Anschnitt / chamfer / entrée / imbocco / entrada		C / 2-3	C / 2-3																																																																																																					
<table><tr><th>Ød₁</th><th>P</th><th>l₁</th><th>l₂</th><th>l₃</th><th>Ød₂</th><th>a</th><th></th><th>Identnummer / identification number / code article / codice / número de identificación</th></tr><tr><td>NPT 1/16"</td><td>27</td><td>80</td><td>13</td><td>-</td><td>8</td><td>6,2</td><td>6,15</td><td>107955</td></tr><tr><td>NPT 1/8"</td><td>27</td><td>90</td><td>13</td><td>-</td><td>11</td><td>9</td><td>8,4</td><td>111349 107958</td></tr><tr><td>NPT 1/4"</td><td>18</td><td>100</td><td>22</td><td>-</td><td>14</td><td>11</td><td>11,1</td><td>111348 107957</td></tr><tr><td>NPT 3/8"</td><td>18</td><td>110</td><td>20</td><td>-</td><td>16</td><td>12</td><td>14,3</td><td>111351 107961</td></tr><tr><td colspan="9"></td></tr><tr><td colspan="9"></td></tr><tr><td colspan="9"></td></tr><tr><td colspan="9"></td></tr><tr><td colspan="9"></td></tr><tr><td colspan="9"></td></tr></table>		Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Identnummer / identification number / code article / codice / número de identificación	NPT 1/16"	27	80	13	-	8	6,2	6,15	107955	NPT 1/8"	27	90	13	-	11	9	8,4	111349 107958	NPT 1/4"	18	100	22	-	14	11	11,1	111348 107957	NPT 3/8"	18	110	20	-	16	12	14,3	111351 107961																																																										
Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Identnummer / identification number / code article / codice / número de identificación																																																																																																
NPT 1/16"	27	80	13	-	8	6,2	6,15	107955																																																																																																
NPT 1/8"	27	90	13	-	11	9	8,4	111349 107958																																																																																																
NPT 1/4"	18	100	22	-	14	11	11,1	111348 107957																																																																																																
NPT 3/8"	18	110	20	-	16	12	14,3	111351 107961																																																																																																

Maschinengewindebohrer

machine taps / tarauds machine / maschi a macchina / machos para roscado a máquina



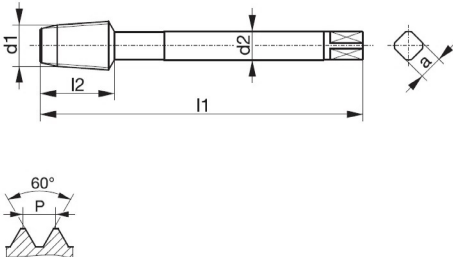
Typenbezeichnung / type / type / tipo / tipo	VARIO 2 N	VARIO 2 HZ	AVANT 2 VA15																
NPT-Amerikanisches Standard Rohrgewinde ASME B1.20.1 kegelig 1:16 American standard taper pipe thread ASME B1.20.1 tapered 1:16 Filetage conique américain tube ASME B1.20.1 conique 1:16 Filettatura conica americana ASME B1.20.1 conico 1:16 Rosca cónica para tubo norma americana ASME B1.20.1 cónico 1:16																			
																			
Bohrung / bore / type de trou / fori / tipos de agujeros																			
Einsatzgebiet / application / application adatto per lavorazione di / aplicación	1.2-1.3 / 4.2 5.1-5.3	1.1-1.5 / 2.1-2.3 3.1-3.3 / 4.4 5.1-5.3	1.1-1.5 / 2.1-2.3 3.1-3.3 / 4.1-4.5																
Ausführung / model / exécution / modello / modelo		AZ TIN	VAP																
Werkstoff / tool material / substrat / materiale / material	HSSE-PM	HSSE-PM	HSSE-PM																
Gewindetoleranz / thread tolerance / tolérance du filetage / tolleranza di filettatura / tolerancia de la rosca																			
Schafttoleranz / shank tolerance / tolérance de queue / tolleranza del gambo / tolerancia del mango	h9	h9	h9																
Anschnitt / chamfer / entrée / imbocco / entrada	C / 2-3	C / 2-3	C / 2-3																
<table><tr><th>Ød₁</th><th>P</th><th>l₁</th><th>l₂</th><th>l₃</th><th>Ød₂</th><th>a</th><th></th><th colspan="2">Identnummer / identification number / code article / codice / número de identificación</th></tr></table>	Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Identnummer / identification number / code article / codice / número de identificación										
Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Identnummer / identification number / code article / codice / número de identificación											
NPT 1/16"	27	80	13	-	6	4,9	6,15	104417											
NPT 1/8"	27	90	13	-	7	5,5	8,4	104420											
NPT 1/4"	18	100	23	-	11	9	11,1	104419											
NPT 3/8"	18	110	20	-	12	9	14,3	104424											
NPT 1/2"	14	125	26	-	16	12	17,9	104418											
NPT 1/2"	14	125	26	-	18	14,4	17,9	111347	107956										
NPT 3/4"	14	140	26	-	20	16	23,2	104423											
NPT 3/4"	14	140	26	-	22	18	23,2	111350	107960										
NPT 1"	11,5	150	32	-	25	20	29	104414											
NPT 1"	11,5	150	32	-	28	22	29	111344	107952										
NPT 1.1/4"	11,5	160	32	-	32	24	37,7	104416	107954										
NPT 1.1/2"	11,5	160	32	-	36	29	44		107953										
NPT 1.1/2"	11,5	180	32	-	36	29	44	104415											

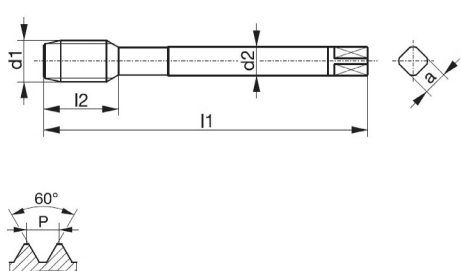
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Maschinengewindebohrer

machine taps / tarauds machine / maschi a macchina / machos para roscado a máquina



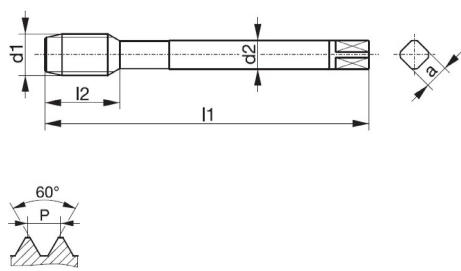
Typenbezeichnung / type / type / tipo / tipo	VARIO 2 N	AVANT 2 VA15																																																																																																	
NPTF-Amerikanisches Standard Rohrgewinde ASME B1.20.3 kegelig 1:16 American standard taper pipe thread ASME B1.20.3 tapered 1:16 Filetage conique américain tube ASME B1.20.3 conique 1:16 Filettatura conica americana ASME B1.20.3 conico 1:16 Rosca cónica para tubo norma americana ASME B1.20.3 cónico 1:16																																																																																																			
																																																																																																			
Bohrung / bore / type de trou / fori / tipos de agujeros																																																																																																			
Einsatzgebiet / application / application adatto per lavorazione di / aplicación	1.2-1.3 / 4.2 5.1-5.3	1.1-1.5 / 2.1-2.3 3.1-3.3 / 4.1-4.5																																																																																																	
Ausführung / model / exécution / modello / modelo		VAP																																																																																																	
Werkstoff / tool material / substrat / materiale / material	HSSE-PM	HSSE-PM																																																																																																	
Gewindetoleranz / thread tolerance / tolérance du filetage / toleranza di filettatura / tolerancia de la rosca																																																																																																			
Schafttoleranz / shank tolerance / tolérance de queue / toleranza del gambo / tolerancia del mango	h9	h9																																																																																																	
Anschnitt / chamfer / entrée / imbocco / entrada	C / 2-3	C / 2-3																																																																																																	
<table><tr><th>Ød₁</th><th>P</th><th>l₁</th><th>l₂</th><th>l₃</th><th>Ød₂</th><th>a</th><th></th><th colspan="2">Identnummer / identification number / code article / codice / número de identificación</th></tr><tr><td>NPTF 1/8"</td><td>27</td><td>90</td><td>13</td><td>-</td><td>7</td><td>5,5</td><td>8,4</td><td>104433</td><td></td></tr><tr><td>NPTF 1/4"</td><td>18</td><td>100</td><td>20</td><td>-</td><td>11</td><td>9</td><td>11,1</td><td>104432</td><td></td></tr><tr><td>NPTF 3/8"</td><td>18</td><td>110</td><td>20</td><td>-</td><td>12</td><td>9</td><td>14,3</td><td>104436</td><td></td></tr><tr><td>NPTF 1/2"</td><td>14</td><td>125</td><td>26</td><td>-</td><td>16</td><td>12</td><td>17,6</td><td>104431</td><td></td></tr><tr><td>NPTF 1/2"</td><td>14</td><td>125</td><td>26</td><td>-</td><td>18</td><td>14,4</td><td>17,6</td><td></td><td>107974</td></tr><tr><td>NPTF 3/4"</td><td>14</td><td>140</td><td>26</td><td>-</td><td>20</td><td>16</td><td>23</td><td>104435</td><td></td></tr><tr><td>NPTF 3/4"</td><td>14</td><td>140</td><td>26</td><td>-</td><td>22</td><td>18</td><td>23</td><td></td><td>107978</td></tr><tr><td>NPTF 1"</td><td>11,5</td><td>150</td><td>32</td><td>-</td><td>28</td><td>22</td><td>29</td><td></td><td>107970</td></tr></table>	Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Identnummer / identification number / code article / codice / número de identificación		NPTF 1/8"	27	90	13	-	7	5,5	8,4	104433		NPTF 1/4"	18	100	20	-	11	9	11,1	104432		NPTF 3/8"	18	110	20	-	12	9	14,3	104436		NPTF 1/2"	14	125	26	-	16	12	17,6	104431		NPTF 1/2"	14	125	26	-	18	14,4	17,6		107974	NPTF 3/4"	14	140	26	-	20	16	23	104435		NPTF 3/4"	14	140	26	-	22	18	23		107978	NPTF 1"	11,5	150	32	-	28	22	29		107970									
Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Identnummer / identification number / code article / codice / número de identificación																																																																																											
NPTF 1/8"	27	90	13	-	7	5,5	8,4	104433																																																																																											
NPTF 1/4"	18	100	20	-	11	9	11,1	104432																																																																																											
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NPTF 1/2"	14	125	26	-	18	14,4	17,6		107974																																																																																										
NPTF 3/4"	14	140	26	-	20	16	23	104435																																																																																											
NPTF 3/4"	14	140	26	-	22	18	23		107978																																																																																										
NPTF 1"	11,5	150	32	-	28	22	29		107970																																																																																										

Typenbezeichnung / type / type / tipo / tipo	VARIO 2 N			
NPSM-Gewinde ASME B1.20.1 American standard straight pipe thread ASME B1.20.1 Filetage pas du gaz cylindrique américain ASME B1.20.1 Filettatura gas cilindrica americana ASME B1.20.1 Rosca de tubo recta norma americana ASME B1.20.1 				
Bohrung / bore / type de trou / fori / tipos de agujeros				
Einsatzgebiet / application / application adatto per lavorazione di / aplicación	1.2-1.3 / 4.2 5.1-5.3			
Ausführung / model / exécution / modello / modelo				
Werkstoff / tool material / substrat / materiale / material	HSSE-PM			
Gewindetoleranz / thread tolerance / tolérance du filetage / tolleranza di filettatura / tolerancia de la rosca				
Schafttoleranz / shank tolerance / tolérance de queue / tolleranza del gambo / tolerancia del mango	h9			
Anschnitt / chamfer / entrée / imbocco / entrada	C / 2-3			
$\varnothing d_1$ P I ₁ I ₂ I ₃ $\varnothing d_2$ a 	Identnummer / identification number / code article / codice / número de identificación			
NPSM 1/8" - 27 90 16 - 7 5,5 9,1	109775			
NPSM 1/4" - 18 100 22 - 11 9 12	109774			
NPSM 3/8" - 18 100 22 - 12 9 15,5	109778			
NPSM 1/2" - 14 125 25 - 16 12 19	109773			
NPSM 3/4" - 14 140 28 - 20 16 24,5	109777			

Maschinengewindebohrer

machine taps / tarauds machine / maschi a macchina / machos para roscado a máquina



Typenbezeichnung / type / type / tipo / tipo	VARIO 2 N			
NPSF-Gewinde ASME B1.20.3 Thread ASME B1.20.3 Filetage ASME B1.20.3 Filettatura ASME B1.20.3 Rosca ASME B1.20.3 				
Bohrung / bore / type de trou / fori / tipos de agujeros				
Einsatzgebiet / application / application adatto per lavorazione di / aplicación	1.2-1.3 / 4.2 5.1-5.3			
Ausführung / model / exécution / modello / modelo				
Werkstoff / tool material / substrat / materiale / material	HSSE-PM			
Gewindetoleranz / thread tolerance / tolérance du filetage / toleranza di filettatura / tolerancia de la rosca				
Schafttoleranz / shank tolerance / tolérance de queue / toleranza del gambo / tolerancia del mango	h9			
Anschnitt / chamfer / entrée / imbocco / entrada	C / 2-3			
$\varnothing d_1$ P l ₁ l ₂ l ₃ $\varnothing d_2$ a 	Identnummer / identification number / code article / codice / número de identificación			
NPSF 1/8" - 27 90 16 - 7 5,5 8,7	108935			
NPSF 1/4" - 18 100 22 - 11 9 11,3	108934			
NPSF 3/8" - 18 100 22 - 12 9 14,75	108937			
NPSF 1/2" - 14 125 25 - 16 12 18,25	108933			
NPSF 3/4" - 14 140 28 - 20 16 23,5	108936			