

Additional tap sizes, materials, and coatings are available on Grainger.com.



















## **Pipe and Conduit Thread Taps**

## Right-hand thread direction

Pipe and conduit thread taps create or repair internal threads in pipe, conduit,

lutes	Thread Size Steel BSPT	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
4	1/8"-28	( <b>K/KC/KP)</b> 3/4 in	2 1/8 in	Taper	Irwin Hanson	19T15
	Steel NPT					
4	1/8"-27	3/4 in	2 1/8 in	Semi-Bottoming	Westward	2LXR3
4	½"-27 ½"-18	3/4 in	2 ½ in	Taper Comi Bottomina	RIDGID	38HY5
4	3/8"-18	1 ½ in 1 ½ in	2 ½6 in 2 ½6 in	Semi-Bottoming	Westward RIDGID	2LXR4 38HY5
4	1"-11 1/2	1 3/4 in	3 ¾ in	Taper Taper	RIDGID	38HY5
4	11/4"-11 1/2	1 3/4 in	4 ½ in	Taper	RIDGID	38HY5
5	1½"-11½ ¾"-14	1 3⁄8 in	3 1/4 in	Taper	RIDGID	38HY5
7	11/2"-11 1/2	1 3/4 in	4 1/4 in	Taper	RIDGID	38HY5
Cobalt I	NPT			Madified Datters		
4	1/8"-27	3/4 in	2 7/64 in	Modified Bottom, Semi-Bottoming	OSG	6VYK(
4	1/4"-18	1 3/64 in	2 27/64 in	Modified Bottom, Semi-Bottoming	OSG	6VYK1
4	3⁄8"-18	1 3/64 in	2 35/64 in	Modified Bottom, Semi-Bottoming	OSG	6VYK2
4	1/2"-14	1 <sup>23</sup> / <sub>64</sub> in	3 7/64 in	Modified Bottom, Semi-Bottoming	OSG	6VYK3
5	3/4"-14	1 <sup>23</sup> / <sub>64</sub> in	3 1/4 in	Modified Bottom, Semi-Bottoming	OSG	6VYK4
liah Sp	eed Steel B	SPP (G)		Octili Dottollilig		
4	1/4"-19	1 3/64 in	2 1/16 in	Plug	_	11V27
4	1/2"-14	1 % in	3 1/8 in	Taper		36UV9
4	3/4"-14	26.00 mm	140.00 mm	Plug	Walter Prototyp	429C0
4	11/4"-11	28.00 mm	170.00 mm	Plug Modified Pottom	Walter Prototyp	429C0
6	21/2"-11	1 <sup>31</sup> / <sub>64</sub> in	10 <sup>13</sup> / <sub>16</sub> in	Modified Bottom, Semi-Bottoming	Walter Prototyp	427G1
ligh Sp 4	1/8"-28	SPT (R/RC/R) 3/4 in	2 1/8 in	Taper	_	10D31
4	1/4"-19	¹3∕16 in	3 5%4 in	Modified Bottom, Semi-Bottoming	Walter Prototyp	427F9
4	3/8"-19	<sup>13</sup> ⁄ <sub>16</sub> in	3 59/64 in	Modified Bottom, Semi-Bottoming	Walter Prototyp	427G0
4	1/2"-14	15/16 in	4 <sup>29</sup> / <sub>32</sub> in	Modified Bottom, Semi-Bottoming	Walter Prototyp	427F9
4	3/4"-14	1 1/64 in	5 ½ in	Modified Bottom,	Walter Prototyp	427G0
4	1"-11	1 3/32 in	6 19/64 in	Semi-Bottoming Modified Bottom,	Walter Prototyp	427F9
5	3/4"-14	1 % in	3 1/4 in	Semi-Bottoming Taper		36UW0
ligh Sp	eed Steel N	PS 78 III		ιαροι		000 110
4	1/4"-18	1 ½16 in	2 1/16 in	Semi-Bottoming	Greenfield Threading	
4	1/4"-18	1 ½16 in	2 1/16 in	Semi-Bottoming	Cleveland	435W9
5	3/4"-14	1 <sup>23</sup> / <sub>64</sub> in	3 1/4 in	Modified Bottom, Semi-Bottoming	OSG	2WAJ
5	3/4"-14	1 <sup>23</sup> /64 in	3 1/4 in	Modified Bottom, Semi-Bottoming	OSG	2WAJ
5	1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottoming	OSG	2WAH
ligh Sp	eed Steel N	PT		Com Bottoming		
2	1/8"-27	9.70 mm	50.80 mm	Taper	Widia GTD	2XUK
3	1/4"-18 1/4"-18	14.80 mm	49.30 mm	Taper	Widia GTD	2XUK
3		17.40 mm 23.75 mm	69.09 mm 85.85 mm	Taper	Widia GTD Widia GTD	2XUL
3	3/4"-14	18.92 mm	74.68 mm	Taper Taper	Widia GTD	2XUL:
4	1/16"-27	11/ <sub>16</sub> in	2 1/8 in	Semi-Bottoming	Greenfield Threading	15K02
4	1/16"-27	11/ <sub>16</sub> in	2 1/8 in	Semi-Bottoming	Cleveland	435W6
4	1/16"-27	11/16 in	2 1/8 in 2 1/8 in	Semi-Bottoming Semi-Bottoming	Westward Greenfield Threading Greenfield Threading	5TWT
			2 1/8 in	Semi-Bottoming	Greenfield Threading	15K02
4	1/8"-27	3/4 in		Semi-Bottomina		
4	1/8"-27 1/8"-27	3/4 in	2 1/8 in	Oomi Dottoming	diceilleld filleading	
4	9/2 - 1/4 9/4" - 1/4 1/16" - 27 1/16" - 27 1/8" - 27 1/8" - 27 1/8" - 27	3/4 in 3/4 in	2 1/8 in	Semi-Bottoming Semi-Bottoming Modified Bottom	Westward	2LWT
4	1/8"-27	3/4 in 3/4 in 3/4 in	2 1/8 in 2 1/8 in 2 1/64 in	Modified Bottom,	Westward OSG	2LWT
4 4 4	1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in	2 1/8 in 2 1/64 in 2 1/8 in	Semi-Bottoming Semi-Bottoming	OSG Cleveland	15K02 2LWT 2WAF 435W6
4 4 4 4	1/8"-27 1/8"-27 1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in 3/4 in	2 1/8 in 2 7/64 in 2 1/8 in 2 1/8 in	Semi-Bottoming Semi-Bottoming Semi-Bottoming	OSG Cleveland Cleveland	2LWT 2WAF 435W6 435W6
4 4 4 4 4	1/8"-27 1/8"-27 1/8"-27 1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in	2 1/8 in 2 1/64 in 2 1/8 in 2 1/8 in 2 1/8 in	Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming	OSG Cleveland Cleveland Westward	2LWT 2WAF 435W6 435W6 5PXH
4 4 4 4 4 4	1/8"-27 1/8"-27 1/8"-27 1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in	2 1/8 in 2 1/64 in 2 1/8 in 2 1/8 in 2 1/8 in	Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward	2LWT 2WAF 435W6 435W6 5PXH 5PXH
4 4 4 4 4 4 4	1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in	2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in	Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward	2LWT 2WAF 435W( 435W( 5PXH 5PXH 5TWT
4 4 4 4 4 4 4 4 4	1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in	2 1/8 in 2 1/84 in 2 1/8 in 2 1/8 in 2 1/8 in 2 1/8 in 2 1/8 in	Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward	2LWT 2WAF 435W0 435W0 5PXH 5PXH 5TWT
4 4 4 4 4 4 4	1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in	2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in	Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward	2LWT 2WAF 435W0 435W0 5PXH 5PXH 5TWT 5TWT 427V8
4 4 4 4 4 4 4 4	1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27 1/8"-27	3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in	2 1/8 in 2 1/84 in 2 1/8 in 2 1/8 in 2 1/8 in 2 1/8 in 2 1/8 in	Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward	2LWT 2WAF 435W6 435W6 5PXH 5PXH 5TWT 5TWT 427V8
4 4 4 4 4 4 4 4 4	1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/4*-18	34 in 34 in 34 in 34 in 34 in 34 in 34 in 34 in 34 in 14.00 mm	2 1/8 in 2 1/8 in 90.00 mm	Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Modified Bottom,	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Walter Prototyp	2LWT 2WAF 435W6 435W6 5PXH 5PXH 5TWT 5TWT 427V8 2LWT
4 4 4 4 4 4 4 4 4 4 4 4 4	1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/4*-18	34 in 14 in 14 in 15 in 176 in 176 in 176 in	2 1/6 in 2 1/64 in 2 1/64 in 2 1/6 in 2 1/66 in 2 1/66 in	Modinied Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Walter Prototyp Westward OSG Cleveland	2LWT 2WAF 435W6 435W6 5PXH 5TWT 5TWT 427V8 2LWT 2WAF
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	/%*-27 /%*-27 /%*-27 /%*-27 /%*-27 /%*-27 /%*-27 //*-18 //*-18	34 in 14 in 14 in 14 in 15 in 16 in 176 in 176 in	2 1/6 in 2 1/64 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 2 1/6 in 90.00 mm 2 1/66 in 2 2/64 in 2 2/66 in 2 1/66 in	Modified Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Walter Prototyp Westward OSG Cleveland Westward	2LWT 2WAF 435W6 435W6 5PXH 5TWT 5TWT 427V8 2LWT 2WAF 435W6 5TWT
4 4 4 4 4 4 4 4 4 4 4 4 4	1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/4*-18	34 in 14 in 14 in 15 in 176 in 176 in 176 in	2 1/6 in 2 1/64 in 2 1/64 in 2 1/6 in 2 1/66 in 2 1/66 in	Modined Bottom, Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Walter Prototyp Westward OSG Cleveland	2LWT 2WAF 435WI 435WI 5PXH 5TWT 5TWT 427V8 2LWT 2WAF 435WI 5TWT
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-27 1/8*-18 1/4*-18 1/4*-18 1/4*-18	34 in 14.00 mm 1 1/16 in 1 1/16 in 1 1/16 in	2 1/6 in 2 1/64 in 2 1/64 in 2 1/6 in 2 1/66 in 2 1/66 in 2 1/66 in 2 1/66 in	Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Se	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Watter Prototyp Westward OSG Cleveland Westward Westward	2LWT 2WAF 435WI 5PXH 5PXH 5TWT 5TWT 427V8 2LWT 2WAF 435WI 5TWT
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/4"-18 1/4"-18 1/4"-18 1/4"-18 1/4"-18	34 in 14.00 mm 1 1/6 in	2 1/6 in 2 1/64 in 2 1/64 in 2 1/6 in	Modified Bottom, Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Westward Cleveland OSG Cleveland Westward Westward Westward Westward Westward Westward Westward Westward Westward	2LWT 2WAF 435WI 5PXH 5PXH 5TWT 5TWT 427V8 2LWT 2WAF 435WI 5TWT 5TWY 427V7
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	%*-27  %*-27  %*-27  %*-27  %*-27  %*-27  %*-27  %*-27  %*-18  ¼*-18  ¼*-18  ¼*-18  ¼*-18	34 in 14.00 mm 1 1/6 in 1 1/6	2 1/6 in 2 1/64 in 2 1/64 in 2 1/6 in	Modinied Bottom, Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Westward OSG Cleveland Westward Westward Uster Prototyp Westward Westward Westward Westward Westward Westward Westward Westward Westward Walter Prototyp Greenfield Threading	2LWT 2WAF 435WI 5PXH 5PXH 5TWT 5TWT 427V8 2LWT 2WAF 435WI 5TWT 5TWY 427V7 15K02
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/6"-27 1/4"-18 1/4"-18 1/4"-18 1/4"-18 1/4"-18	34 in 14.00 mm 1 1/6 in	2 1/6 in 2 1/64 in 2 1/64 in 2 1/6 in	Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Se	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Westward Cleveland OSG Cleveland Westward Westward Westward Westward Westward Westward Westward Westward Westward	2LWT 2WAF 435W6 5PXH 5PXH 5TWT 5TWT 427V8 2LWT 2WAF 435W6 5TWT 5TWY 427V7 15K02
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	%-27 /%-27 /%-27 /%-27 /%-27 /%-27 /%-27 /%-27 /%-27 /%-28 /%-18 /4-18 /4-18 /4-18 /4-18 /4-18 /4-18 /4-18	34 in 14.00 mm 1 1/6 in	2 ½ in 10 0.00 mm 2 ½ in	Modinied Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Westward OSG Cleveland Westward Westward OSG Cleveland Westward Westward Westrand OSG Cleveland OSG Cleveland OSG Cleveland OSG Cleveland OSG Cleveland OSG OSG	2LWT 2WAF 435W6 5PXH 5PXH 5TWT 5TWT 427V8 2LWT 2WAF 435W6 5TWT 5TWY 427V7 15K02 2WAE
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	%*-27  %*-27  %*-27  %*-27  %*-27  %*-27  %*-27  %*-27  %*-18  ¼*-18  ¼*-18  ¼*-18  ¼*-18	34 in 14.00 mm 1 1/6 in 1 1/6	2 1/6 in 2 1/64 in 2 1/64 in 2 1/6 in	Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Se	Westward OSG Cleveland Cleveland Westward Westward Westward Westward Westward Westward OSG Cleveland Westward Westward Uster Prototyp Westward Westward Westward Westward Westward Westward Westward Westward Westward Walter Prototyp Greenfield Threading	2LWT 2WAF



High Speed Steel NPS 15K060



No. of Flutes	Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
4	1/2"-14	11/ <sub>16</sub> in	3 1/8 in	Semi-Bottoming	Westward	5TWY2
4	1/2"-14	1 % in	3 1/8 in	Semi-Bottoming	Greenfield Threading	15K026
4	1/2"-14	1 <sup>23</sup> / <sub>64</sub> in	3 7/64 in	Modified Bottom, Semi-Bottoming	OSG	2WAF8
4	1/2"-14	1 <sup>23</sup> / <sub>64</sub> in	3 7/64 in	Modified Bottom, Semi-Bottoming	OSG	33ZL86
4	1/2"-14	1 % in	3 1/8 in	Semi-Bottoming	Greenfield Threading	407D20
4	1/2"-14	1 % in	3 1/8 in	Semi-Bottoming	Cleveland	435W65
4	1/2"-14	1 3/8 in	3 1/8 in	Semi-Bottoming	Cle-Line	50AP49
4	1/2"-14	1 5/8 in	3 19/64 in	Taper	Widia GTD	53MK05
4	½"-14 ½"-14	1 % in	3 ½ in	Semi-Bottoming	Westward	5PXH4
4 5	1/2"-14	1 % in	3 1/8 in 125.00 mm	Semi-Bottoming Modified Bottom,	Westward Walter Protetyp	5TWX1 427V78
5 5	3/4"-14	29/32 in	3 1/4 in	Semi-Bottoming Semi-Bottoming	Walter Prototyp Westward	5TWX2
	3/4"-14	1 <sup>23</sup> / <sub>64</sub> in	3 ½ in	Modified Bottom,	OSG	2WAF9
 5	3/4"-14	1 23/64 in	3 1/4 in	Semi-Bottoming Modified Bottom,	OSG	2WAG1
5	3/4"-14	1 3% in	3 1/4 in	Semi-Bottoming		407D21
5	3/4"-14	1 % in	3 1/4 in	Semi-Bottoming Semi-Bottoming	Greenfield Threading Cleveland	407D21
5	3/4"-14	1 % in	3 % in	Semi-Bottoming	Cle-Line	50AP55
5	3/4"-14	1 3/8 in	3 1/4 in	Semi-Bottoming	Westward	5PXH5
5	3/4"-14	1 3% in	3 1/4 in	Semi-Bottoming	Westward	5TWU1
5	3/4"-14	1 3/8 in	3 1/4 in	Semi-Bottoming	Westward	5TWY3
5	1"-11 1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Greenfield Threading	15K028
5	1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottoming	OSG	2WAG2
5	1"-11 1/2	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottoming	OSG	33ZL90
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottoming	Cleveland	435W67
5	1"-11 1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Cle-Line	50AP53
5	1"-11 1/2	1 3/4 in	3 ¾ in	Semi-Bottoming	Westward	5TWU2
- 5	1"-11 1/2	1 ¾ in	3 ¾ in	Semi-Bottoming	Westward	5TWX3
5	1"-11 1/2	1 ¾ in	3 ¾ IN	Semi-Bottoming	Westward	5TWY4
5	11/4"-11 1/2	1 ¾ in	4 in	Semi-Bottoming	Greenfield Threading	15K029
5	11/4"-11 1/2	1 ¾ in	4 in	Modified Bottom, Semi-Bottoming	OSG	2WAF7
5	11/4"-11 1/2	1 ¾ in	4 in	Semi-Bottoming	Greenfield Threading	407D24
5	11/4"-11 1/2 11/4"-11 1/2	1 ¾ in	4 in	Semi-Bottoming	Cleveland	435W68
5	11/4"-11 1/2	1 ¾ in	4 in	Semi-Bottoming	Westward	5TWU3
7	1½"-11 ½	1 ¾ in	4 1/4 in	Semi-Bottoming	Greenfield Threading	15K030
7	1½"-11 ½	1 ¾ in	4 1/4 in	Modified Bottom, Semi-Bottoming	OSG	2WAG6
	1½"-11½ 1½"-11½	1 ¾ in 1 ¾ in	4 1/4 in 4 1/4 in	Semi-Bottoming Semi-Bottoming	Greenfield Threading Cleveland	407D25 435W69
7	11/2"-11 1/2	1 ¾ in	4 1/4 in	Modified Bottom, Semi-Bottoming	OSG	4CYE6
7	1½"-11½	1 ¾ in	4 1/4 in	Semi-Bottoming	Westward	5PXH8
7	11/2"-11 1/2	1 ¾ in	4 1/4 in	Semi-Bottoming	Westward	5TWU4
7	11/2"-11 1/2	1 ¾ in	4 1/4 in	Semi-Bottoming	Westward	5TWX5
7	2"-11 ½	1 3/4 in	4 ½ in	Semi-Bottoming	Greenfield Threading	15K031
7	2"-11 1/2	1 ¾ in	4 ½ in	Semi-Bottoming	Greenfield Threading	407D26
7	2"-11 1/2	1 3/4 in	4 ½ in	Semi-Bottoming	Cleveland	435W70
_7	2"-11 ½	1 3/4 in	4 ½ in	Semi-Bottoming	Westward	5PXH9
	2"-11 ½ 2"-11 ½	1 3/4 in	4 ½ in	Semi-Bottoming	Westward	5TWU5
High Sp	peed Steel Ni	1 ¾ in PTF	4 ½ in	Semi-Bottoming	Westward	5TWX6
4	1/8"-27	3/4 in	2 1/8 in	Semi-Bottoming	Greenfield Threading	15K041
4	1/8"-27	3/4 in	2 7/64 in	Modified Bottom, Semi-Bottoming	OSG	2WAJ7
4	1/8"-27	3/4 in	2 7/64 in	Modified Bottom,	OSG	4CYG2
4	1/8"-27 1/4"-18	3/4 in	2 7/64 in	Semi-Bottomina	OSG Greenfield Threading	4CYG2
4 4 4	1/8"-27 1/4"-18 1/4"-18	3/4 in 1 1/16 in 1 3/64 in	2 7/64 in 2 7/16 in 2 27/64 in	Semi-Bottoming Semi-Bottoming Modified Bottom,	OSG Greenfield Threading OSG	4CYG2 15K042 2WAJ9
4	1/4"-18	1 ½ in	2 1/16 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom,	Greenfield Threading	15K042
4	1/4"-18 1/4"-18	1 ½ in 1 ¾ in	2 ½6 in 2 ½64 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom,	Greenfield Threading OSG	15K042 2WAJ9
4 4	1/4"-18 1/4"-18 3/8"-18	1 ½6 in 1 ¾64 in 1 ¾64 in 1 ¾64 in	2 7/16 in 2 27/64 in 2 35/64 in 2 35/64 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming	Greenfield Threading OSG OSG OSG	15K042 2WAJ9 2WAK2 2WAK5
4 4 4 4	1/4"-18 1/4"-18 3/8"-18 3/8"-18	1 1/16 in 1 3/64 in 1 3/64 in	2 7/16 in 2 27/64 in 2 35/64 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Modified Bottom,	Greenfield Threading OSG OSG	15K042 2WAJ9 2WAK2
4 4 4 4 4 4	1/4"-18 1/4"-18 9/6"-18 9/6"-18 1/2"-14 1/2"-14	1 1/16 in 1 3/64 in 1 3/64 in 1 3/64 in 1 3/64 in 1 3/64 in	2 <sup>7</sup> / <sub>16</sub> in 2 <sup>27</sup> / <sub>64</sub> in 2 <sup>35</sup> / <sub>64</sub> in 2 <sup>35</sup> / <sub>64</sub> in 3 <sup>1</sup> / <sub>6</sub> in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom,	Greenfield Threading OSG OSG OSG Greenfield Threading OSG	15K042 2WAJ9 2WAK2 2WAK5 15K044 2WAK9
4 4 4 4 4 4	1/4"-18 1/4"-18 3/6"-18 3/6"-18 1/2"-14 1/2"-14	1 ½6 in 1 3/64 in 1 23/64 in 1 23/64 in	2 7/6 in 2 27/64 in 2 35/64 in 2 35/64 in 3 1/6 in 3 7/64 in 3 7/64 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom,	Greenfield Threading OSG OSG OSG Greenfield Threading OSG OSG	15K042 2WAJ9 2WAK2 2WAK5 15K044 2WAK9
4 4 4 4 4 4 5	1/4"-18 1/4"-18 3/6"-18 3/6"-18 1/2"-14 1/2"-14 1/2"-14	1 ½6 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 2¾64 in 1 2¾64 in 1 2¾64 in	2 %6 in 2 2764 in 2 3564 in 2 3564 in 3 364 in 3 764 in 3 764 in 3 174 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom,	Greenfield Threading OSG OSG OSG Greenfield Threading OSG OSG OSG OSG	15K042 2WAJ9 2WAK2 2WAK5 15K044 2WAK9 2WAL1
4 4 4 4 4 4 5 5	1/4"-18 1/4"-18 3/6"-18 3/6"-18 3/6"-14 1/2"-14 1/2"-14 3/4"-14 3/4"-14	1 ½6 in 1 3/64 in 1 23/64 in 1 23/64 in 1 23/64 in 1 23/64 in	2 7/6 in 2 27/64 in 2 35/64 in 2 35/64 in 3 3/6 in 3 7/64 in 3 1/64 in 3 1/4 in 3 1/4 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming	Greenfield Threading OSG OSG OSG Greenfield Threading OSG OSG OSG OSG OSG	15K042 2WAJ9 2WAK2 2WAK5 15K044 2WAK9 2WAL1 2WAK6
4 4 4 4 4 4 5 5	1/4"-18 1/4"-18 1/4"-18 1/4"-18 1/4"-18 1/2"-14 1/2"-14 1/2"-14 1/4"-14 1/4"-14 1/4"-14	1 ½6 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 2¾64 in 1 2¾64 in 1 2¾64 in 1 2¾64 in 1 3¾64 in	2 7/6 in 2 27/64 in 2 35/64 in 2 35/64 in 3 1/6 in 3 7/64 in 3 1/64 in 3 1/4 in 3 1/4 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming	Greenfield Threading OSG OSG OSG Greenfield Threading OSG OSG OSG OSG	15K042 2WAJ9 2WAK2 2WAK5 15K044 2WAK9 2WAL1 2WAK6 2WAK6 435W77
4 4 4 4 4 4 5 5 5	/4"-18 /4"-18 /4"-18 /6"-18 /6"-18 /2"-14 /2"-14 /2"-14 /4"-14 /4"-14 /4"-14 /4"-14	1 ½6 in 1 ¾64 in 1 2¾64 in 1 3¾64 in 1 3¼64 in	2 7/6 in 2 27/64 in 2 35/64 in 2 35/64 in 3 3/6 in 3 7/64 in 3 1/64 in 3 1/4 in 3 1/4 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Modified Bottom, Modified Bottoming Modified Bottoming Semi-Bottoming	Greenfield Threading OSG OSG OSG Greenfield Threading OSG OSG OSG OSG Cleveland Greenfield Threading	15K042 2WAJ9 2WAK2 2WAK5 15K044 2WAK9 2WAL1 2WAK6 2WAK8 435W77 15K039
4 4 4 4 4 4 5 5	1/4"-18 1/4"-18 1/4"-18 1/4"-18 1/4"-18 1/2"-14 1/2"-14 1/2"-14 1/4"-14 1/4"-14 1/4"-14	1 ½6 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 ¾64 in 1 2¾64 in 1 2¾64 in 1 2¾64 in 1 2¾64 in 1 3¾64 in	2 7/6 in 2 27/64 in 2 35/64 in 2 35/64 in 3 1/6 in 3 7/64 in 3 1/64 in 3 1/4 in 3 1/4 in 3 1/4 in 3 3/4 in	Semi-Bottoming Semi-Bottoming Modified Bottom, Semi-Bottoming Semi-Bottoming Semi-Bottoming Semi-Bottoming	Greenfield Threading OSG OSG OSG Greenfield Threading OSG OSG OSG OSG	15K042 2WAJ9 2WAK2 2WAK5 15K044 2WAK9 2WAL1 2WAK6 2WAK6 435W77

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