

API Thread Forms • Insert Applications Chart for API Rotary Shouldered Connections

thread form	WIDIA™ insert		tool joint application	minimum box size*
	cresting	non-cresting		
V-.038R 2" TPF 4 TPI	NDC-4038R/L2 4-E/IR4API382	ND-3038R/L	2-3/8 API internal flush 2-7/8 API internal flush 3-1/2 API internal flush 4 API internal flush 4-1/2 API internal flush 5-1/2 API internal flush 6-5/8 API internal flush 4 API full hole API #23, API #26, API #31, API #35, API #38, API #40, API #44, API #46, API #50	API #31 2-7/8 IF
V-.038R 3" TPF 4 TPI	NDC-4038R/L3 4-E/IR4API383	ND-3038R/L	API #56 API #61 API #70 API #77	API #56
V-.050 2" TPF 4 TPI	NDC-4050R/L2 4-E/IR4API502	ND-4050R/L	5-1/2 API full hole 6-5/8 API regular 6-5/8 API full hole	5-1/2 API full hole
V-.050 3" TPF 4 TPI	NDC-4050R/L3 4-E/IR4API503	ND-4050R/L	5-1/2 API regular 7-5/8 API regular 8-5/8 API regular	5-1/2 API regular
V-.040 3" TPF 5 TPI	NDC-3040R/L3 NDC-4040R/L3 4-E/IR5API403	ND-3040R/L ND-4040R/L	2-3/8 API regular 2-7/8 API regular 3-1/2 API regular 4-1/2 API regular	3-1/2 API regular

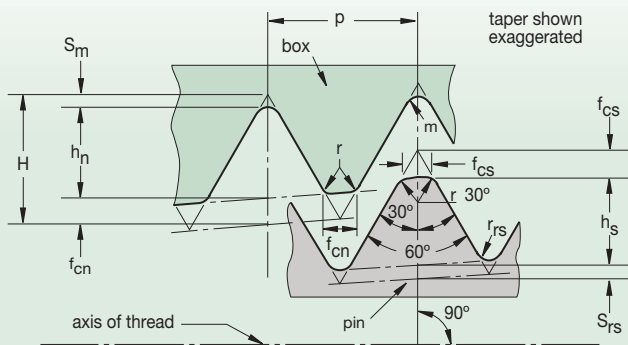
\*Minimum box size that can be threaded with a standard TopThread insert due to minimum bore equipment.

API Thread Forms  
Product Thread Dimensions • Rotary Shouldered Connections (Inch)

threadform	taper inch per ft.	thread height, not truncated H	thread height, truncated h <sub>n</sub> =h <sub>s</sub>	root truncation S <sub>m</sub> =S <sub>rs</sub> f <sub>m</sub> =f <sub>rs</sub>	crest truncation f <sub>cn</sub> =f <sub>cs</sub>	width of flat		root radius r <sub>m</sub> =r <sub>rs</sub>	radius at thread corners r	pitch p
						crest f <sub>cn</sub> =f <sub>cs</sub>	crest f <sub>m</sub> =f <sub>rs</sub>			
V-.038R	2	.216005	.121844	.038000	.056161	.065	—	.038	.015	.250
V-.038R	3	.215379	.121381	.038000	.055998	.065	—	.038	.015	
V-.040	3	.172303	.117842	.020000	.034461	.040	—	.020	.015	.250
V-.050	3	.215379	.147303	.025000	.043076	.050	—	.025	.015	
V-.050	2	.216005	.147804	.025000	.043201	.050	—	.025	.015	.250

NOTE: All dimensions in inches.

V-.040 and V-.050 Product Thread Form



Casing and Tubing Round Thread (Height Dimensions)

thread element	10 TPI p= .1000	8 TPI p= .1250	
H	= .866p	.08660	.10825
H <sub>s</sub> = h <sub>n</sub>	= .626p - .007	.05560	.07125
S <sub>rs</sub> = S <sub>m</sub>	= .120p + .002	.01400	.01700
S <sub>cs</sub> = S <sub>cn</sub>	= .120p + .005	.01700	.02000