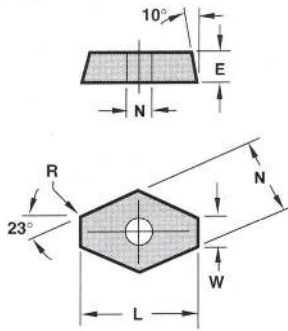




API 46° RING GROOVERS

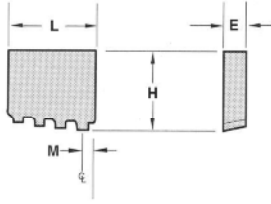


Insert Description	Specifications					
	R	W	P	E	L	D
APIP 086-3	.015	.079	.372			-
APIP 131-3		.125	.407			-
APIP (PGN-1A)		.131	.414		3/4	-
APIP 162-3 (PGN-1A)	.031	.156	.437			-
APIP (PGN-7A)		.203	.484			-
APIP 203-3 (PGN-2A)		.197	.574			-
APIP 203-3H		.197	.574			.203
APIP 213-3	.062	.206	.574	.187		
APIP 265-3		.260	.630			
APIP 281-3		.277	.646		1"	
APIP 300-3	.031	.295	.662			.250
APIP 329-3		.324	.688			
APIP 355-3		.350	.712			
APIP 420-3		.415	.772			
HEAVY DUTY						
APIP 284-3	.062	.278	.718	.187	1-3/16	
APIP 162-4	.031	.156	.730			
APIP 203-4		.197			1-1/2	
APIP 213-4	.062	.206				
APIP 265-4		.260			1-3/8	.250
APIP 281-4		.277	.773	.250	1-5/16	
APIP 300-4	.031	.295			1-9/32	
APIP 329-4		.324			1-7/32	
APIP 355-4		.350			1-5/32	
APIP 420-4		.415			1"	

See pg. 48 for Ring Groove details
 See pgs. 45-48 for Holders



**API BUTTRESS
THREADING**



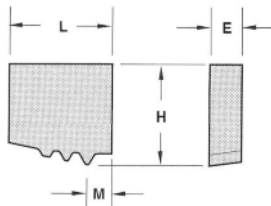
EXT Shown
INT Opposite

Insert Description

Specifications

	TPI	TPF	L	H	E	M	No. of Teeth
CM-5B75-4E	5	3/4	.800	.640	.200	.100	4
CM-5B75-3E			.640	.625			3
CM-5B1-4E		1	.800	.640			4
CM-5B1-3E			.640	.625			3
CM-8B75-4E	8	3/4	.800	.625		.143	4
CM-5B75-4I	5	3/4	.800	.640	.200	.100	4
CM-5B75-3I			.640	.625			3
CM-5B1-4I		1	.800	.640			4
CM-5B1-3I			.640	.625			3
CM-8B75-4I	8	3/4	.500	.625		.143	4

**API ROUND
THREADING**

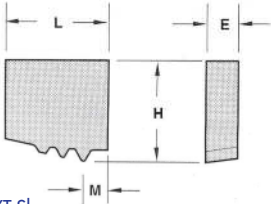


EXT Shown
INT Opposite

CM-8R-3E	8	3/4	.633	.593	.200	.100	.222	3	
CM-8R-4E 6°				.640			.625	.150	4
CM-8R-4E 12°									
CM-10R-3E	10	3/4					.220	3	
CM-8R-3I	8	3/4	.640	.592	.200	.100	.222	3	
CM-8R-4I 6°	8	3/4	.640				.100	4	
CM-8R-4I 12°	8	3/4	.640	.625			.150	4	
CM-8R-7I	8	3/4	1.00			.145	.145	7	
CM-10R-3I	10	3/4	.640	.625	.200	.220		3	

**API ROUND
THREADING**

EXTERNAL SET

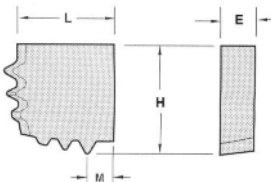


EXT Shown
INT Opposite

CM-8R-3E 1	8	3/4	.630	.587	.200	.264	.306	3				
CM-8R-3E 2												.3
CM-8R-3E 3											.592	.222

**API ROUND
THREADING**

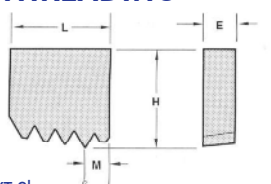
DOUBLE SET



EXT Shown
INT Opposite

CM-8R-3E 6° DC	8	3/4	.625	.625	.200	.100	.100	3
CM-8R-3E 12° DC								3
CM-8R-4E 6° DC								4
CM-8R-4E 12° DC								4
CM-10R-3E DC	10	3/4	.625	.625	.200	.220		3
CM-8R-3I 6° DC	8	3/4	.625	.625	.200	.100	.100	3
CM-8R-4I 6° DC								4
CM-8R-4I 12° DC								4
CM-10R-3I DC								10

**LINE PIPE
THREADING**



EXT Shown
INT Opposite

CM-11.5LPT-4E	11.5	3/4	.625	.620	.200	.295		4
CM-8LPT-4E	8	3/4	.625	.620	.200	.156		4
CM-8LPT-4I	8	3/4	.625	.620	.200	.156		4