

API RING GROOVER

● Ring / Cartridge Set Dimensions

Ring Specification	① Cartridge Set Part Number Choose Set	Stock	No. of Inserts	No. of Flutes	Dimensions (in)							Roughout Cartridges	Applicable Body Part Number
					Offset	Pitch	OD	Width	Depth	OD Depth	ID Depth		
						P	G	N	E				
BX-150	BX150-SET	●	4	2	0.061	-	2.893	0.450	0.220	2.771	2.115	-	API-RG-3-CV40 API-RG-3-CV50 API-RG-3-BT50 API-RG-3-DIN-69871
BX-150-R	BX150-R-SET	●		1	0.097	-	3.341	0.841	0.485	3.147	1.853	Yes	
BX-151	BX151-SET	●	4	2	0.065	-	3.062	0.466	0.220	2.932	2.260	-	API-RG-1-CV40 API-RG-1-CV50 API-RG-1-BT50 API-RG-1-BT40 API-RG-1-DIN-69871
BX-151-R	BX151-R-SET	●	4	1	0.097	-	3.496	0.846	0.485	3.302	1.998	Yes	API-RG-3-CV40 API-RG-3-CV50 API-RG-3-BT50 API-RG-3-DIN-69871
BX-152	BX152-SET	●	4	2	0.069	-	3.395	0.498	0.230	3.257	2.537	-	API-RG-1-CV40 API-RG-1-CV50 API-RG-1-BT50 API-RG-1-BT40 API-RG-1-DIN-69871
BX-152-R	BX152-R-SET	●		1	0.091		3.826	0.876	0.505	3.644	2.256	Yes	
BX-153	BX153-SET	●	4	2	0.077	-	4.046	0.554	0.270	3.892	3.092	-	API-RG-1-CV40 API-RG-1-CV50 API-RG-1-BT50 API-RG-1-BT40 API-RG-1-DIN-69871
BX-153-R	BX153-R-SET	●		1	0.110		4.486	0.936	0.535	4.266	2.834	Yes	
BX-154	BX154-SET	●	4	2	0.083	-	4.685	0.606	0.300	4.519	3.369	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
BX-154-R	BX154-R-SET	●		1	0.112		5.116	0.971	0.570	4.892	3.398	Yes	
BX-155	BX155-SET	●	4	2	0.100	-	5.930	0.698	0.330	5.730	4.734	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
BX-155-R	BX155-R-SET	●		1	0.223		6.366	1.076	0.595	5.920	4.660	Yes	
BX-156	BX156-SET	●	4	2	0.132	-	9.521	0.921	0.440	9.257	7.943	-	API-RG-4-CV50 API-RG-4-BT50 API-RG-4-DIN-69871
BX-156-R	BX156-R-SET	●		1	0.166		9.956	1.306	0.710	9.624	7.676	Yes	
BX-169	BX169-SET	●	4	2	0.081	-	6.955	0.666	0.380	6.793	5.785	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
R-16	R16-SET	●	4	2	0.026	-	2.000	0.344	0.250	2.292	1.708	-	API-RG-3-CV40 API-RG-3-CV50 API-RG-3-BT50 API-RG-3-DIN-69871
R-18	R18-SET	●					2.375			2.667	2.083	-	
R-20	R20-SET	●	4	2	0.046	-	2.688	0.469	0.310	2.980	2.396	-	API-RG-1-CV40 API-RG-1-CV50 API-RG-1-BT50 API-RG-1-BT40 API-RG-1-DIN-69871
R-23	R23-SET	●					3.250			3.627	2.873	-	
R-23-R	R23-R-SET	●	1	0.081	3.300	-	0.856	0.575	3.994	2.606	Yes		
R-24	R24-SET	●	4	2	0.046	-	3.750	0.469	0.310	4.127	3.373	-	API-RG-1-CV40 API-RG-1-CV50 API-RG-1-BT50 API-RG-1-BT40 API-RG-1-DIN-69871
R-24-R	R24-R-SET	●					1			0.077	3.800	0.871	
R-26	R26-SET	●	4	2	0.046	-	4.000	0.469	0.310	4.377	3.623	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
R-27	R27-SET	●					4.250			4.627	3.873	-	
R-31	R31-SET	●	4	2	0.044	-	4.875	0.469	0.310	5.256	4.494	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
R-31-R	R31-R-SET	●					1			0.072	4.920	0.856	
R-35	R35-SET	●	4	2	0.046	-	5.375	0.469	0.310	5.752	4.998	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
R-35-R	R35-R-SET	●					1			0.081	5.420	0.856	
R-37	R37-SET	●	4	2	0.046	-	5.875	0.469	0.310	6.252	5.498	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
R-39	R39-SET	●					6.375			6.752	5.998	-	
R-39-R	R39-R-SET	●	1	0.081	6.420	-	0.856	0.575	7.114	5.726	Yes		
R-41	R41-SET	●	4	2	0.046	-	7.125	0.469	0.310	7.502	6.748	-	API-RG-1-CV40 API-RG-1-CV50 API-RG-1-BT50 API-RG-1-BT40 API-RG-1-DIN-69871
R-44	R44-SET	●					7.625			8.002	7.248	-	
R-44-R	R44-R-SET	●	1	0.071	7.670	-	0.856	0.575	8.384	6.956	Yes		
R-45	R45-SET	●	4	2	0.046	-	8.313	0.469	0.310	8.690	7.936	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
R-46	R46-SET	●					0.048			0.531	0.380	8.748	
R-46-R	R46-R-SET	●	1	0.082	8.360	-	0.916	0.645	9.112	7.608	Yes		
1-13/16	1-13/16-SET	●	4	2	0.034	-	4.373	0.377	0.258	4.305	3.687	-	API-RG-1-CV40 API-RG-1-CV50 API-RG-1-BT50 API-RG-1-BT40 API-RG-1-DIN-69871
2-1/16-10K	2-1/16-10K-SET	●					4.623			4.555	3.937	-	
2-9/16-15K	2-9/16-15K-SET	□	4	2	0.034	-	5.873	0.377	0.258	5.805	5.187	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
3-1/16-10K	3-1/16-10K-SET	●					5.748			5.680	5.062	-	
4-1/16-10K	4-1/16-10K-SET	●	4	2	0.034	-	7.123	0.377	0.258	7.055	6.437	-	API-RG-2-CV50 API-RG-2-BT50 API-RG-2-DIN-69871
5-1/8-10K	5-1/8-10K-SET	●					8.748			8.680	8.062	-	

● Applicable Body Stock

② Body Part Number Choose Body	Stock	Shank	Body Spare Parts	
			Mounting Bolt	Set Screw
			API-RG-1-CV40	●
API-RG-1-CV50	●	CAT50		
API-RG-1-BT50	●	BT50	01-05	01-08
API-RG-1-BT40	□	BT40		
API-RG-1-DIN-69871	□	DIN69871		
API-RG-2-CV50	●	CAT50		
API-RG-2-BT50	●	BT50	01-05	01-08
API-RG-2-DIN-69871	□	DIN69871		
API-RG-3-CV40	●	CAT40		
API-RG-3-CV50	●	CAT50		
API-RG-3-BT50	●	BT50	01-06	01-09
API-RG-3-BT50	□	BT50		
API-RG-3-DIN-69871	□	DIN69871		
API-RG-4-CV50	●	CAT50		
API-RG-4-BT50	□	BT50	01-07	01-10
API-RG-4-DIN-69871	□	DIN69871		

● Note

The OD and ID dimensions are to set the cut diameter of a given cartridge set using a presetter. The dimensions are the cut diameter of the tool at the depth of the ring groove. By setting zero at the nose radius then moving the presetter to the depth of the API groove the OD and ID can be preset to the dimensions shown.

See illustration on page [K2](#)

● : U.S. Stock Standard
 □ : Made to Order / Quoted Item
 ○ : World Express (Shipping: 7-10 Business Days)

GRADES	A
LINEUP / INSERTS	B
45° / 70° LEAD	C
75° LEAD	D
90° LEAD	E
HIGH FEED	F
MULTI-FUNCTION	G
SLOT MILLS	H
RADIUS / BALL-NOSE	J
OTHER APPLICATIONS	K
TOOL HOLDING	O
SPARE PARTS	P
TECHNICAL	R
INDEX	T