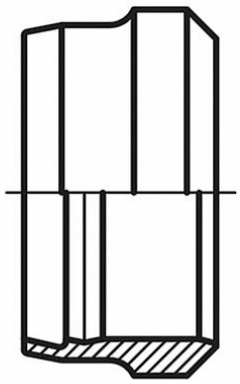
Cutting Ring/Compression Ring / Ferrule





Industry Standard:

DIN 3861 / ISO 8434-1

Design Type:

Double Edge

Material:

Carbon Steel/Stainless Steel

Finish:

Zinc Plated/Phosphate

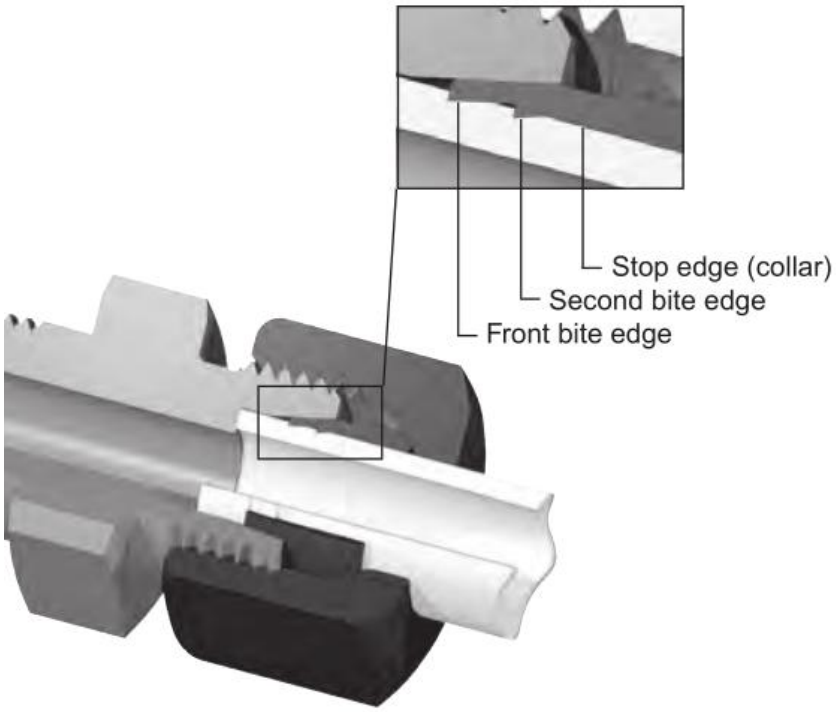
FITSCH

Cutting Ring Introduction

Cutting ring is critical part of non-soldering compression fitting, it is from Ermeto Original (EO)design.It has different symbols such as ISO “CR”, Parker “D/PSR/DPR/”, Eaton Winner”RL/RS”, it is also called “ferrule and compression ring”.

Assembly Of Cutting Ring

On the assembly, the front and second (two)edge cutting(double bite) the designed depth into the tube, limited by the stop edge(collar), the force is from turning the nut.



Standards Of Cutting Rings

It meet DIN 3861, DIN 2353 and ISO 8434-1 standard.

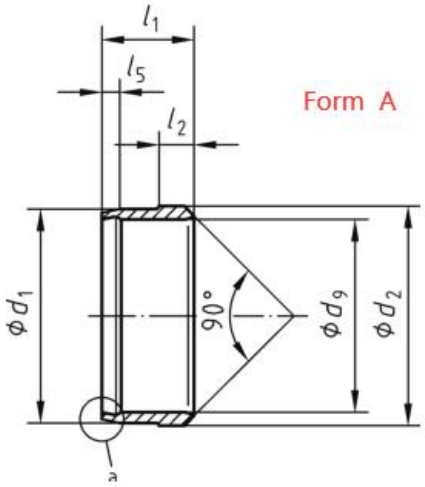
Design of Cutting Rings

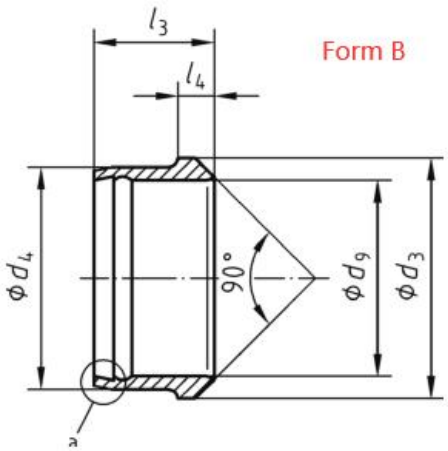
Double edge design(Form B) of cuttings ring is double bite stronger and features a “positive stop” to eliminate over-tightening.

Material types of cutting ring is C35/45, with HRC 38-45; Stainless steel is 316L with HRC 38-45.

We also offer cutting ring form A and F with soft seal.It is precision machined, heat treated in in a manner that provides the hardness, strength and toughness.

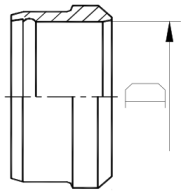
Dimensions of Cutting Rings from DIN 3861





Series	TUBE O.D	Form A and B PN in bar	Form A d1 max.	Form A d2 ±0.2	Form B d3 max.	Form B d4 max.	Form A und B d9 B11 +/-0.1		Form A l1 +/-0.5	Form A l2 min.	Form B l3 max.	Form B l4 min.	Form A l5 min.
LL	4	100	5.1	5.5			4		6	2			
	5		6.6	7			5		7	2.5			
	6		7.6	8			6		7	2.5			
	8		9.6	10			8		7	2.5			
	16		17.8	19			16		9	3			
L	6		Cutting ring is the same S series sizes										0.5
	8												
	10												
	12												
	15		17.4	18	20	18	15		10	3.5	12	3.5	
	18	160	20.4	21	24	21	18		10	3.5	12.5”	3.5	
	22		24.4	25	27	25	22		10.5	3.5	13.5	3.5	
	28	100	30.4	31	33	31	28		10.5	3.5	13.5l	3.5	
	35		38.1	40	42	38.5		35.3	13	5	15.5	5	
	42		45.1	47	49	45.5		42.35	13.5	5	15.5	5	
S	6	630	8.2	9	10	8.5	6		9	3	11.5	3	0.5
	8		10.2	11	12	10.5	8		9	3	11.5	3	
	10		12.4	13	14	13	10		10	3	12	3	
	12		14.4	15	16	15	12		10	3	12	3	
	14		16.4	17	20	17	14		10	3.5	12	3.5	
	16	400	18.4	19	22	19	16		10.5	3.5	12	3.5	
	20		23	24	27	23.5	20		12.5	4	15.5	4	
	25		28	29	33	28.5	25		12.5	4	15.5	4	
	30	250	33.1	35	39	33.5	30		13	5	16	5	
	38		41.1	43	49	42		38.3	13.5	5	16	5	

Catalogue Of Cutting Rings



RLL/RL/RS

CUTTING RING/ COMPRESSION RING REF: ISO 8434-1/ DIN 3861

Double Edge Type, interchangeable into Parker PSR

PART NO.	THERAD	TUBE O.D.	CROSS REFERENCE		Weight g/1 piece
			Parker PN	ISO 8434-1	
LL SERIES					
RLL-08	M8×1	4	PSR04LLX	CR04LL	0.3
RLL-10	M10×1	6	PSR06LLX	CR06LL	0.8
RLL-12	M12×1	8	PSR08LL	CR08LL	1
RLL-14	M14×1	10	PSR10LLX	CR10LL	1.3
RLL-16	M16×1	12	PSR12LLX	CR12LL	1.6
L SERIES					
RL-06	M12X1.5	6	PSR06LX	CR06L	1.7
RL-08	M14X1.5	8	PSR08LX	CR08L	2.2
RL-10	M16X1.5	10	PSR10LX	CR10L	3.1
RL-12	M18X1.5	12	PSR12LX	CR12L	3.5
RL-15	M22X1.5	15	PSR15LX	CR15L	4.5
RL-18	M26X1.5	18	PSR18LX	CR18L	5.5
RL-22	M30X2	22	PSR22LX	CR22L	7.3
RL-28	M36X2	28	PSR28LX	CR28L	9.4
RL-35	M45X2	35	PSR35LX	CR35L	20
RL-42	M52X2	42	PSR42LX	CR42L	23
S SERIES					
RS-06	M14X1.5	6	PSR06SX	CR06S	1.7
RS-08	M16X1.5	8	PSR08SX	CR08S	3.2
RS-10	M18X1.5	10	PSR10SX	CR10S	3.1
RS-12	M20X1.5	12	PSR12SX	CR12S	3.5
RS-14	M22X1.5	14	PSR14SX	CR14S	3.9
RS-16	M24X1.5	16	PSR16SX	CR16S	5.6
RS-20	M30X2	20	PSR20SX	CR20S	11.4
RS-25	M36X2	25	PSR25SX	CR25S	13.3
RS-30	M42X2	30	PSR30SX	CR30S	19.3
RS-38	M52X2	38	PSR38SX	CR38S	22.5

NOTE: If order stainless steel please add SS after part no, ie RL-06SS.