

Steel & stainless steel cutting ring fittings ISO 8434-1

Cutting ring fittings

ISO 8434-1 (DIN 2353)

Zinc-plated steel

Materials: Body: Zinc-plated steel, any existing

elastomer seal: NBR

Temperature range: $-40^{\circ}C$ to max. $+120^{\circ}C$ (with an elastomer seal: -35°C to max. +100°C) Stainless steel and NC-screw connections Materials: Body: AISI 316Ti, any existing elastomer seal: FKM

Temperature range: -60°C to max. +400°C (with an elastomer seal: -20°C to max. +200°C, NC screw connections on request up to +550°C) Our pipe recommendation



Seamless steel pipes EN 10305-4 (DIN 2445/2) (tolerances: DIN 2391, quality grade C) on page 251.

Seamless stainless steel pipes AISI 316Ti, DIN EN ISO 1127 (tolerances: D4/T3) on page 253.



Many other screw-in threads are available. Warning: For conical male or female threads, PN 630 only applies in conjunction with a conical counter threads - i.e. an op-posing male or female thread. Otherwise PN 400 applies for conical female or male threads.

*** Pressure data for static loading with a) zinc-plated steel 120°C, b) stainless steel 20°C. With stainless steel at temperatures above 20°C, a correction factor should be applied based on the table below. Example:

20°C, tube Ø 22 = 160 bar 100°C, tube Ø 22 = 160 bar x 0.89 =

Press. reductions f. stainless steel				
	Correction			
Temperature	factor			
- 60°C to +20°C	C 1			
+60°C	0.95			
+100°C	0.89			
+200°C	0.80			
+300°C	0.71			
+400°C	0.67			

Thread table for pipe screw connectors (standard design)*

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		Screw-in	Screw-in	Screw-in	Operating	Operating
Tube Ø	Union nut	thread	thread	thread	pressure steel/	
external	thread	metric*	imperial*	NPT*	stainl. steel PN*	** stainl. steel PN***
Very light	model series					
4 LL	M8x1	M 8 x 1 (con.)	R 1/8"	NPT 1/8"	100 bar	
5 LL	M 10 x 1	M 8 x 1 (con.)	R 1/8"	NPT 1/8"	100 bar	
6 LL	M 10 x 1	M 10 x 1 (con.)	R 1/8"	NPT 1/8"	100 bar	
8 LL	M 12 x 1	M 10 x 1 (con.)	R 1/8"	NPT 1/8"	100 bar	
10 LL	M 14 x 1	M 14 x 1.5 (con.)	R 1/4"		100 bar	
12 LL	M 16 x 1	M 14 x 1.5 (con.)	R 1/4"		100 bar	
Light mode	el series					
6 L	M 12 x 1.5	M 10 x 1	G 1/8"	NPT 1/8"	315 bar	315 bar
8 L	M 14 x 1.5	M 12 x 1.5	G 1/4"	NPT 1/4"	315 bar	315 bar
10 L	M 16 x 1.5	M 14 x 1.5	G 1/4"	NPT 1/4"	315 bar	315 bar
12 L	M 18 x 1.5	M 16 x 1.5	G 3/8"	NPT 3/8"	315 bar	315 bar
15 L	M 22 x 1.5	M 18 x 1.5	G 1/2"	NPT 1/2"	315 bar	315 bar
18 L	M 26 x 1.5	M 22 x 1.5	G 1/2"	NPT 1/2"	315 bar	315 bar
22 L	M 30 x 2	M 26 x 1.5	G 3/4"	NPT 3/4"	160 bar	160 bar
28 L	M 36 x 2	M 33 x 2	G 1"	NPT 1"	160 bar	
35 L	M 45 x 2	M 42 x 2	G 1 1/4"	NPT 1 1/4"	160 bar	
42 L	M 52 x 2	M 48 x 2	G 1 1/2"	NPT 1 1/2"	160 bar	
Heavy mo	del series					
6 S	M 14 x 1.5	M 12 x 1.5	G 1/4"	NPT 1/4"	630 bar**	500 bar
8 S	M 16 x 1.5	M 14 x 1.5	G 1/4"	NPT 1/4"	630 bar**	500 bar
10 S	M 18 x 1.5	M 16 x 1.5	G 3/8"	NPT 3/8"	630 bar**	450 bar
12 S	M 20 x 1.5	M 18 x 1.5	G 3/8"	NPT 3/8"	630 bar**	400 bar
14 S	M 22 x 1.5	M 20 x 1.5	G 1/2"	NPT 1/2"	630 bar**	400 bar
16 S	M 24 x 1.5	M 22 x 1.5	G 1/2"	NPT 1/2"	400 bar	400 bar
20 S	M 30 x 2	M 27 x 2	G 3/4"	NPT 3/4"	400 bar	250 bar
25 S	M 36 x 2	M 33 x 2	G 1"	NPT 1"	400 bar	250 bar
30 S	M 42 x 2	M 42 x 2	G 1 1/4"	NPT 1 1/4"	400 bar	
38 S	M 52 x 2	M 48 x 2	G 1 1/2"	NPT 1 1/2"	315 bar	

Prefitting tool for cutting ring and NC compression ring connections

	Tube
Туре	connection
Very light model series	
VOMO 4 LL	4 LL
VOMO 5 LL	5 LL
VOMO 6 LL	6 LL
VOMO 8 LL	8 LL
Light model series	
VOMO 6 L	6 L
VOMO 8 L	8 L
VOMO 10 L	10 L
VOMO 12 L	12 L
VOMO 15 L	15 L
VOMO 18 L	18 L
VOMO 22 L	22 L
VOMO 28 L	28 L
VOMO 35 L	35 L
VOMO 42 L	42 L

	Tube			
Туре	connection			
Heavy model series				
VOMO 6 S	6 S			
VOMO 8 S	8 S			
VOMO 10 S	10 S			
VOMO 12 S	12 S			
VOMO 14 S	14 S			
VOMO 16 S	16 S			
VOMO 20 S	20 S			
VOMO 25 S	25 S			
VOMO 30 S	30 S			
VOMO 38 S	38 S			





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Rexroth Bosch Group Hydraulic pressure limiting valves from page 455



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HYDAC Pipe clamps from page 244



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Hydraulic valves from page 452





Oil binding agents & oil binding cloths from page 581



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High pressure ball valves from page 292

All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C