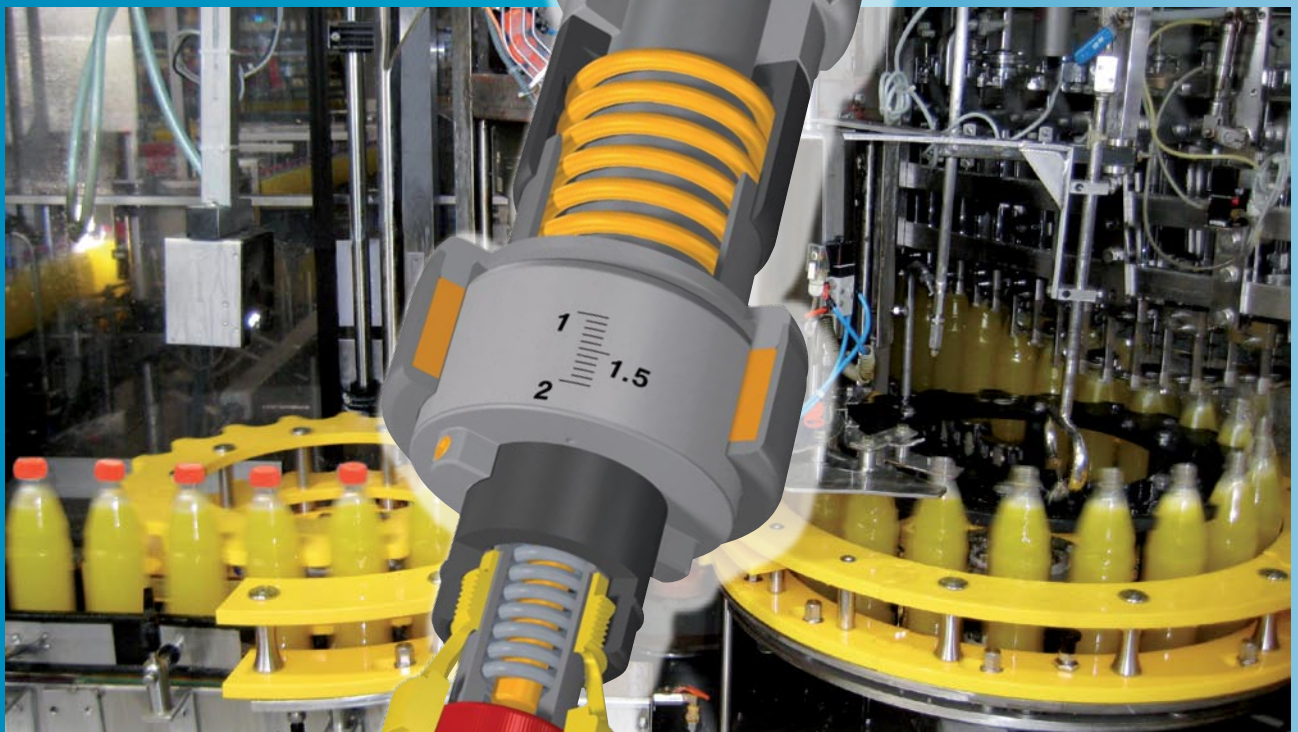


ROBA[®]-capping head

Hysteresis-
capping head



www.mayr.de

- **Constant and impact-free closing torque thanks to hysteresis technology**
- **Maintenance-friendly construction**
- **Rustproof, enclosed construction type**
- **Slim, compact design**

P.151000.V06.GB

mayr[®]
your reliable partner

ROBA®-capping head
Rustproof hysteresis-capping head

The perfect capping head for non-returnable and returnable PET bottles as well as for non-returnable glass bottles

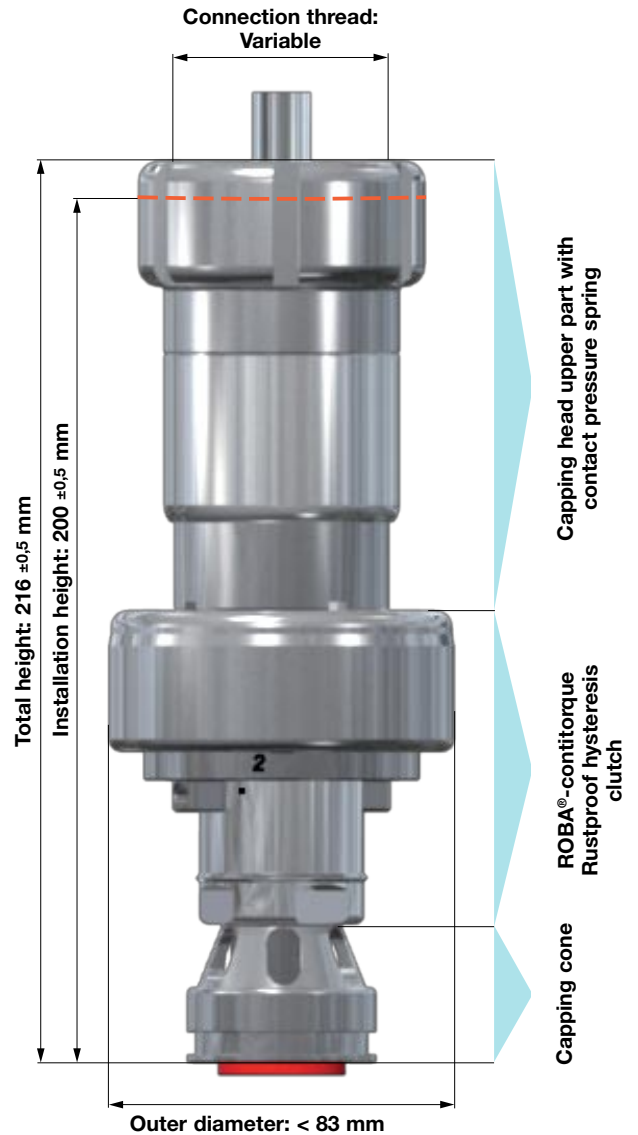
In the beverage industry, the application of plastic caps in combination with plastic bottles has prevailed across the board. This means that the demands for accuracy of the capping heads also increase. The aim is a constant closing torque for all caps.

Permanent magnet clutches or hysteresis clutches are normally used for closing torque limitation.

In comparison to permanent magnet clutches, hysteresis clutches provide a very constant and impact-free closing torque. Therefore, hysteresis clutches are better suited for mounting the caps than permanent magnet clutches. Furthermore, the system service lifetime is considerably higher.

Advantages of the ROBA®-capping head hysteresis-capping head:

- **Highest repetitive accuracy** of the closing torque thanks to hysteresis clutch
- **Resistant to dirt and aggressive media** due to rustproof, **enclosed construction type**
- **Highest system service lifetime** due to impact-free, **low-vibration hysteresis technology**
- **Functionally-inspected cones** available for all standard caps
- **Simple adjustment of the head pressure** possible
- **Maintenance-friendly construction:** Fast replacement of the capping head and capping head upper part
- **Easy torque adjustment**
- **Slim design** enables application in nearly all free-standing cappers or capper upper parts
- **Variable connection threads:** Suitable for all common drive spindles





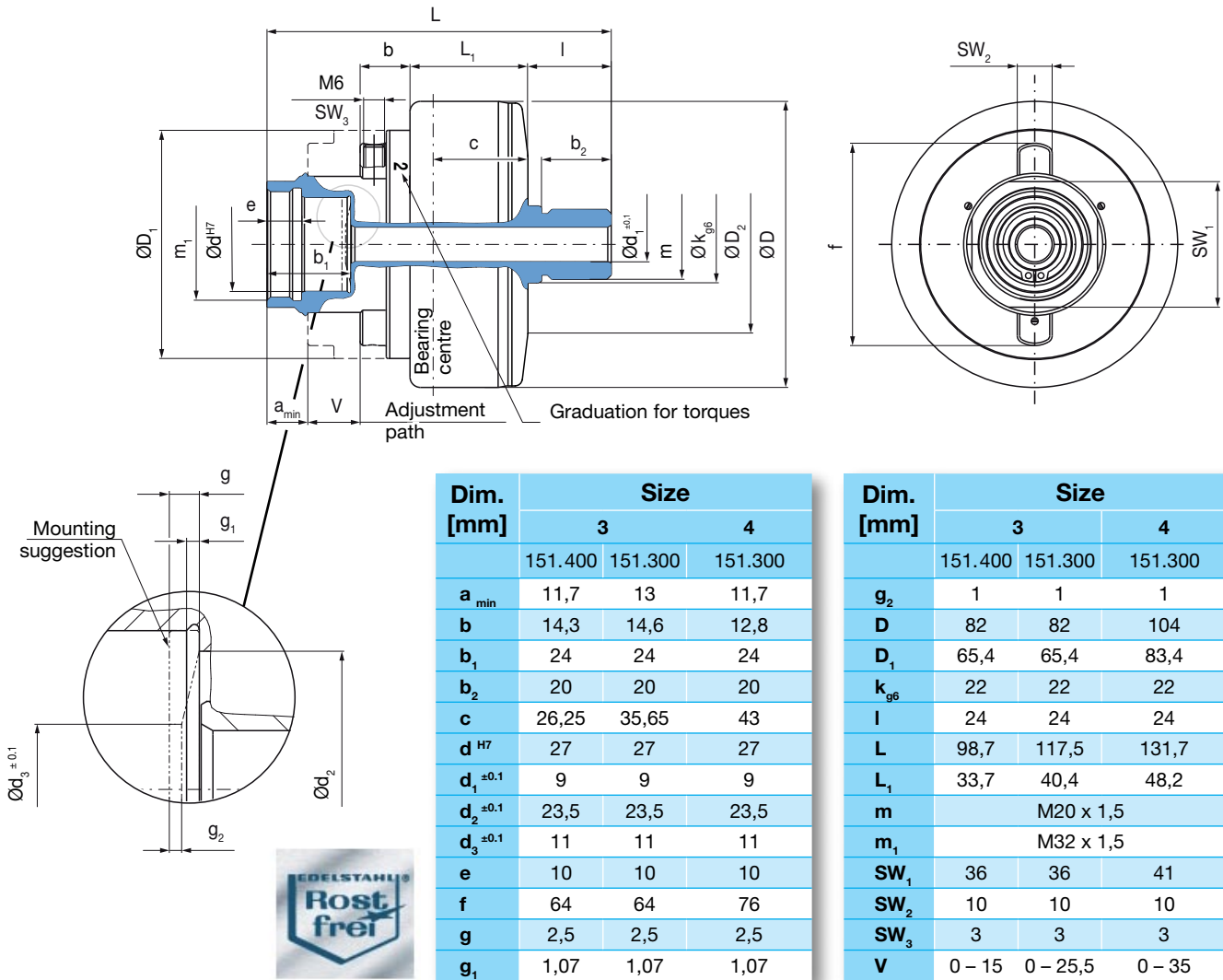
Technical Data		Size 3 Type 1114.00000
Total height	[mm]	216 ±0,5
Installation height	[mm]	200 ±0,5
Outer diameter	[mm]	< 83
Torque range	[Nm]	1 - 2
Permitted speed ¹⁾	[rpm]	< 450
Ejector bore ²⁾	[mm]	9
Permitted application temperature	[°C]	< 45
Head pressure	[F]	dependent on cap
Maximum overstroke	[mm]	< 15

1) The maximum permitted speed in slipping operation must be calculated via the thermic dimensioning (see Main Catalogue K.150.V_..., page 8).
 2) Larger ejector bores possible on request - **Please contact the responsible sales representative or the company mayr® directly.**

ROBA®-capping head
Rustproof hysteresis-capping heads
 are a joint development of:

mayr® Antriebstechnik as experts in the field of hysteresis clutches and **Günter Spatz** consulting for closures technology, packaging & service.



Dim. [mm]	Size		
	3		4
	151.400	151.300	151.300
a_{min}	11,7	13	11,7
b	14,3	14,6	12,8
b_1	24	24	24
b_2	20	20	20
c	26,25	35,65	43
d^{H7}	27	27	27
$d_1^{\pm 0.1}$	9	9	9
$d_2^{\pm 0.1}$	23,5	23,5	23,5
$d_3^{\pm 0.1}$	11	11	11
e	10	10	10
f	64	64	76
g	2,5	2,5	2,5
g_1	1,07	1,07	1,07

Dim. [mm]	Size		
	3		4
	151.400	151.300	151.300
g_2	1	1	1
D	82	82	104
D_1	65,4	65,4	83,4
k_{g6}	22	22	22
l	24	24	24
L	98,7	117,5	131,7
L_1	33,7	40,4	48,2
m	M20 x 1,5		
m_1	M32 x 1,5		
SW_1	36	36	41
SW_2	10	10	10
SW_3	3	3	3
V	0 - 15	0 - 25,5	0 - 35

Technical Data Type 151._00				Size		
				3		4
Type				151.400	151.300	151.300
Limit torque on overload ¹⁾		T_g	[Nm]	1 - 2	0,5 - 3	0,5 - 6
Permitted power loss ²⁾ at application temperature ³⁾ [°C]	0 - 25 °C	$P_{v, perm.}$	[W]	24	26	34
	26 - 35 °C			20	22	29
	36 - 45 °C			16,5	18	23,5
Permitted speed		n_{max}	[rpm]	The maximum permitted speed in slipping operation must be calculated via the thermic dimensioning (see Main Catalogue K.150.V_-, page 8).		
Mass moments of inertia	Inner part (hub)	J_i	[10 ⁻³ kgm ²]	0,447	0,541	1,724
	Outer part (housing)	J_a	[10 ⁻³ kgm ²]	0,653	0,779	2,375
Weight			[kg]	1,43	1,70	3,34
Permitted bearing load ⁴⁾	radial	F_{rad}	[N]	223	325	390
	axial	F_{ax}	[N]	149	217	260

- 1) Request the tolerance values for the maximum deviation of the set limit torque T_g from the scale value at the manufacturer's. Torque repetitive accuracy $\pm 2\%$. At high relative speeds, the limit torque T_g increases due to eddy current effects. Please contact the manufacturer for exact T_g values.
- 2) Refers to the maximum surface temperature of c. 90 °C for rotating housings. ($n = 200$ rpm)
- 3) Application temperature in the range 0 - 45 °C.
- 4) Referring to a nominal bearing service lifetime $L_{10h} = 20000$ h, a radial force F_{rad} lever arm at a maximum distance of 70 mm from the bearing centre and a bearing speed $n = 350$ rpm.

We reserve the right to make dimensional and constructional alterations.

All dimensions in mm. Further sizes for smaller and larger torques on request.



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19/11/2010 SC

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You can find the complete address for the representative responsible for your area under www.mayr.de in the internet.

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