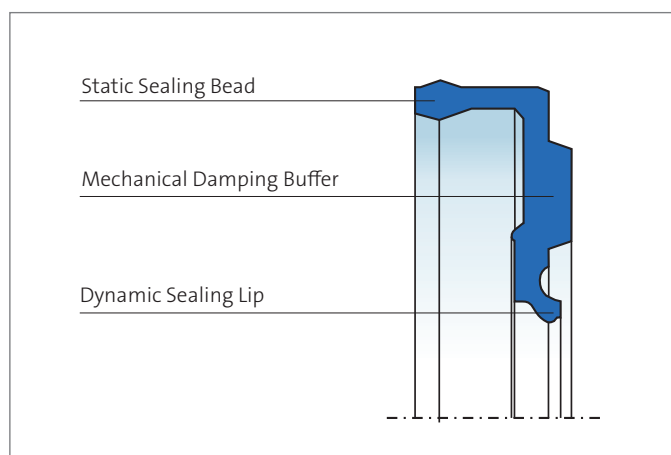


DAMP & SEAL D&S 300



The **Damp & Seal D&S 300** is a patented damper seal for the cylinder cover that fulfills several functions simultaneously. It seals statically to the cylinder cover, mechanically dampens the piston stroke in the end position and dampens pneumatically by air throttling.



VALUE TO THE CUSTOMER

- Mechanical damping of the piston in the end position
- Reduction of noise emissions
- Reduction of the dynamic load on the cylinder and adjacent components
- Greatly reduced number of components and thus simplified, cost-effective housing
- High installation reliability

Application

The Damp & Seal D&S 300 series is used as a damping seal in the pressure range up to 12 bar in ISO standard cylinders and special applications (on request).

Material

Material	Designation	Color
Polyurethane	85 AU 21030	violet



TECHNICAL PROPERTIES

Operating Conditions

Werkstoff	85 AU 21030
Medium	Aufbereitete, getrocknete und entölte Druckluft (n. Montagefertigung)
Druck	$\leq 1,2$ MPa, max. $\leq 2,5$ MPa
Temperatur	$-30 \dots +80^\circ\text{C}$
Gleitgeschwindigkeit	≤ 1 m/s

Surface Finish

Peak-to-Valley Heights	$R_{z1\max}$	Load Bearing Part M_r
Cylinder Tube	$\leq 4 \mu\text{m}$	$M_r (25 \% R_{z1\max})$ 50-75 %
Buffer Piston	$\leq 10 \mu\text{m}$	$M_r (25 \% R_{z1\max})$ 50-75 %
Cylinder Cover	$\leq 10 \mu\text{m}$	$M_r (25 \% R_{z1\max})$ 50-75 %

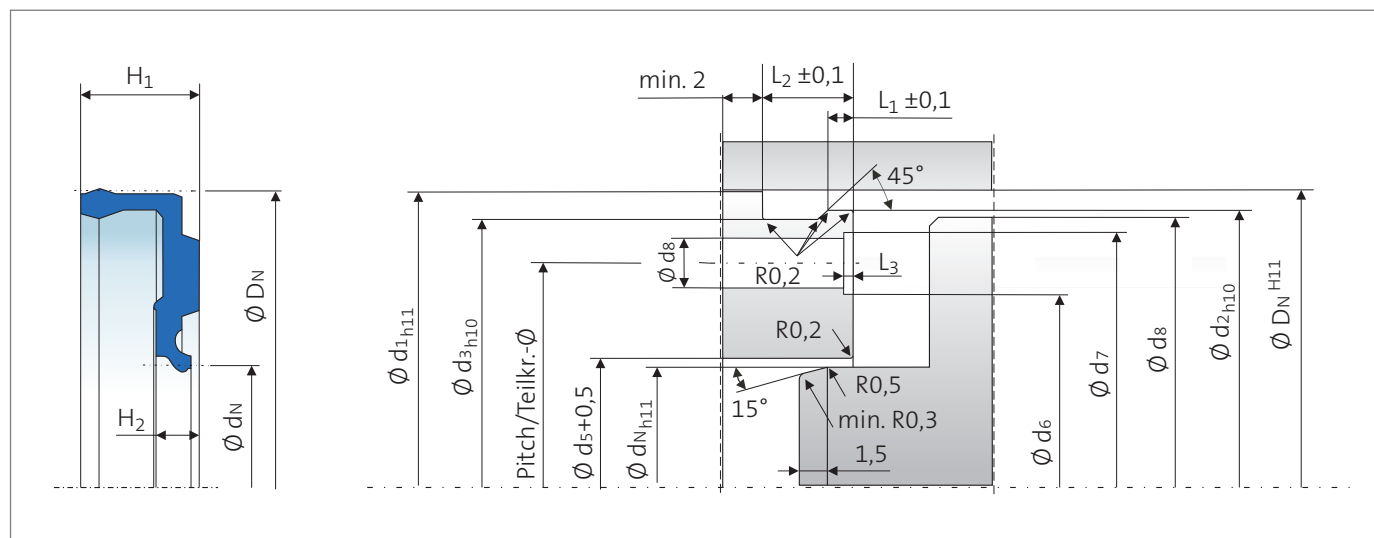
Design Notes

Design of cover and damping pin according to enclosed drawing.

Installation & Assembly

A prerequisite for the proper functioning of the seal is careful installation. The Damp & Seal damper seal is snapped onto the piston cover via the burr-free grooved edge and pressed into the cylinder barrel with the cover. Positional alignment of the seal is not necessary.

Installation Diagram





DIMENSION TABLE

DN	dN	H1	H2	d1	d2	d3	d4	d5	d6	d7	d8	dB	L1	L2	L3	Article No.
16	7	5,3	2,0	16	13,8	13	10,6	7,3 +0,2	---	---	14	1	0,75	3,9	---	49320286
25	12	6,5	2,2	25	22,6	21,8	17,8	13	---	---	22	2,2	1,5	4,9	---	49082387
32	14	6,5	2,2	32	29,8	28,9	25,4	15	---	---	29	2	1,4	4,9	---	49072518
32	16	6,5	2,2	32	29,8	28,9	25,4	17	---	---	29	2	1,4	4,9	---	49072519
40	20	6,8	2,5	40	37,8	36,8	31,8	21	28,3	35,3	37	3,5	1,4	4,9	0,5	49081094
50	25	6,8	2,5	50	47,8	46,8	38,9	26	34,4	43,4	47	4,5	1,4	4,9	0,7	49081095
63	25	7,3	3,0	63	60,4	59,4	45	26	38	52	61,5	7	1,4	4,9	1,25	49081096
80	30	7,7	3,4	80	77,4	76,4	60,1	31	53,1	67,1	78,5	7	1,4	4,9	1,25	49081097
100	30	7,7	3,4	100	97,2	96,2	80	31	71,8	88,2	98	8,2	1,4	4,9	1,55	49313772

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