

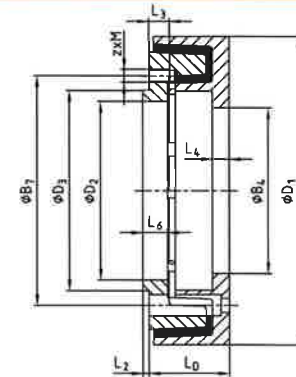
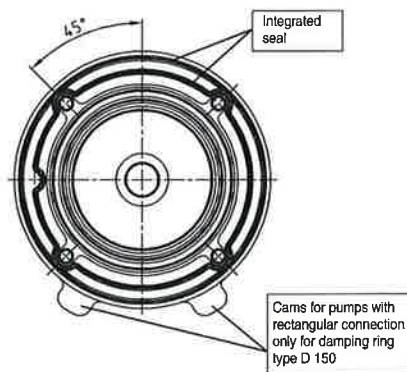
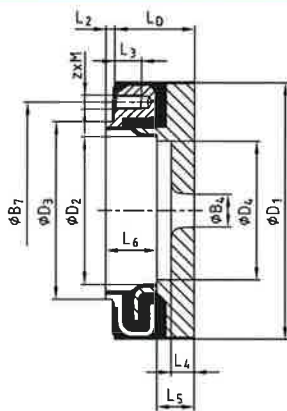
Hydraulic Components

Damping elements

Damping rings D



- Vulcanized and failsafe (up to D 330, DBGM)
- High weight load permissible (e. g. multiple pumps)
- Excellent damping properties
- Excellent resistance to hydraulic oil
- Sealing lips are moulded on (up to size 330) – no additional sealing required
- For the bellhousing selection you require please either see our selection programme at www.ktr.com or order the selection stored on CD-ROM

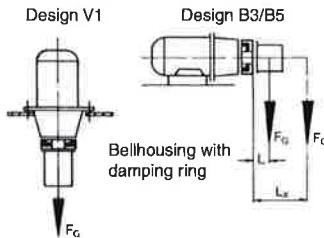


D 84 / D 125 / D 145

Damping ring Size	B ₄		Dimensions [mm]											
	min.	max.	B ₇	D ₁	D ₂	D ₃	D ₄	L ₀	L ₂	L ₃	L ₄	L ₅	L ₆	z x M ²⁾
D 150/..	18	83	122	148	83	100	78	45	5	15	13	16	30	4 x M8
D 190/..	30	121	150	190	116	130	100	45	5	15	14	18	33	4 x M10
D 230/..	97	143	195	234	143	160	136	58	5	18	17	23	47	4 x M12
D 260/..	97	164	210	264	164	180	156	58	4	20	18	23	46	4 x M16
D 330/..	120	208	264	330	208	220	201	83	6	35	23	28	64	4 x M20
D 84/.../A	147	224	280	360	210	224	-	83	5	35	25	25	18	4 x M20
D 84/.../C														
D 125/.../A	260	320	360	484	285	315	-	125	10	33	25	25	40	M20 ³⁾
D 145/.../A	390	400	1)	590	370	400	-	145	12	45	35	35	47	M24 ³⁾

1) Pitch circle diameter on request.
 2) Tightening torque of screw quality 5.6.
 3) Number of fixing holes on request.

Permissible radial and axial weight load of damping rings based on an ambient temperature of + 60 °C



	D 150	D 190	D 230	D 260	D 330	D 84	D 125	D 145
Distance of center of gravity for radial load L [mm]	100	100	100	200	200	200	250	250
Perm. weight load F _{max} [N]	650	1800	3000	2300	4100	4000	6000	10 000

With a different distance of center of gravity L_x the permissible weight load is converted.

If L_x < L, F_{max} = F_{perm.}

$$F_{perm.} = \frac{F_{max} \cdot L}{L_x} \quad [N]$$

The permissible weight load F_{perm.} must not be exceeded by the existing weight load F_G (radial or axial).

Order form:

D	230	14
Damping ring	Size	Internal code

Arrangement of damping ring D up to D 330



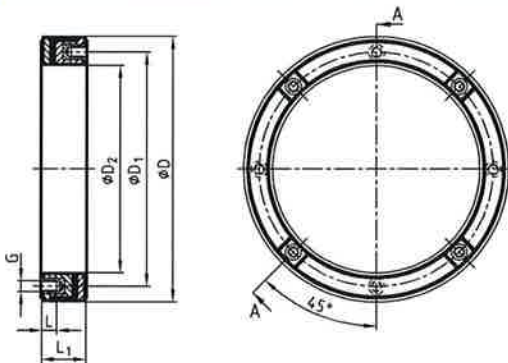
Hydraulic Components

Damping elements

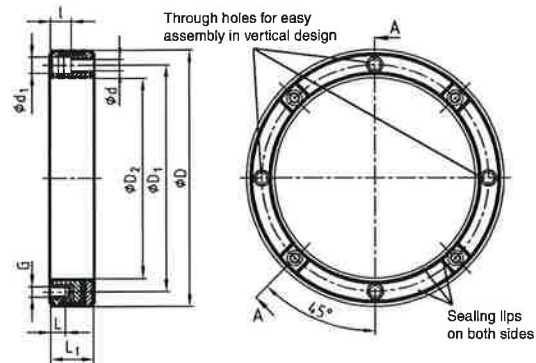
Damping rings type DT (DBGM) and DTV



- **DTV for vertical assembly only!**
- To reduce noise between drive unit and tank by means of rubber flexible separation
- Type DT for horizontal and vertical assembly
- Type DT is protected against separation (failsafe) by means of a special design (registered design of the interconnected parts)
- Pressure-loaded elastomer due to the interconnected parts
- High permissible radial, angular and axial load
- Sealing lips are moulded on - no additional sealings required

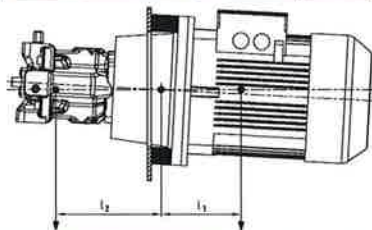


Damping ring type DT



Damping ring type DT.../2

IEC - motor Size	Damping ring Size	Dimensions [mm]									Screw tightening torque [Nm]
		D	D ₁	D ₂	z x G	L	L ₁	z x d	z x d ₁	f	
71	DTV 160	160	130	111	4 x M 8	16,5	35	4 x 9	4 x 14,5	18	12
80, 90 S / 90 L	DT 200	200	165	145,2	4 x M 10	20	40	4 x 11	4 x 17,5	20	23
100 L / 112 M	DT 250	250	215	191	4 x M 12	17,5	45	4 x 13	4 x 19,5	22	40
132 S / 132 M	DT 300	300	265	235	4 x M 12	17,5	50	4 x 13	4 x 19	24	40
160 M/160L, 180M/180L	DT 350	350	300	261	4 x M 16	31	60	4 x 17	4 x 25	26	100
200 L	DT 400	400	350	301	4 x M 16	31	70	4 x 17	4 x 25	31	100
225 S / 225 M	DT 450	450	400	351	8 x M 16	31	80	8 x 17	8 x 25	41	100
250 M, 280 S / 280 M	DT/DTV 550	550	500	451	8 x M 16	30	68	8 x 17	8 x 25	23	210
315 S / 315 M	DT/DTV 660	660	600	551	8 x M 20	30	68	8 x 22	8 x 33	23	410



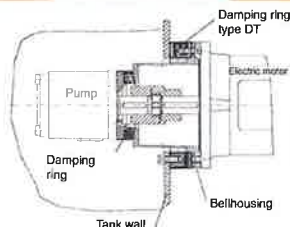
Permissible radial weight and bending load of DT damping rings with an operating temperature of + 60 °C

DT size	200	250	300	350	400	450	550	660
F _{perm.} [N]	370	720	1450	3600	4800	6600	13000	24000
M _{b perm.} [Nm]	30	65	175	740	1100	1600	4400	9000

$$F_{perm.} \geq F_P + F_M$$

$$M_{b perm.} \geq F_M \cdot l_1 - F_P \cdot l_2$$

Example of assembly:



horizontal (type DT) with fixings installed reciprocally

Arrangement of DT ring

