

# Gas-Hydraulic Buffer BP



**PINTSCH BUBENZER**  
is certified according to  
DIN EN ISO 9001:2008



Reliable



Efficient



Low Maintenance



Robust Construction

# Description BP Buffer



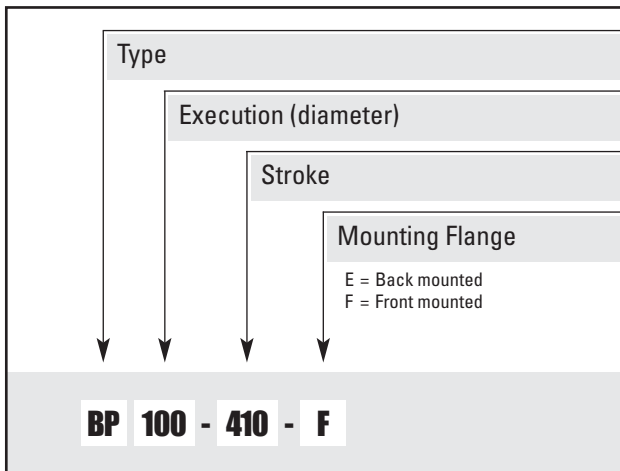
## Main Features

- Piston and cylinder of special seamless pipes
- Back mounted or front mounted versions available
- Piston special hard chrome plated
- Seawater resistant coating
- Impact speed sensitive damping
- Low maintenance

## Options

- Special mounting arrangements
- High temperature seals
- Safety chain
- Safety wire rope
- Protective bellows
- Special design for certain applications

## Ordering Example



## Applications

- As impact energy absorber on crane gantries, trolleys, elevators, stackers, reclaimers and other industrial applications.



### Please Note

We supply a detailed operating manual with every order. Nevertheless, we would point out that buffers are only as safe as the servicing and maintenance performed while they are in operation. The guarantee for the correct functioning of our buffers is therefore only valid if the user adheres to the installation and operating manual.



### PINTSCH BUBENZER Service

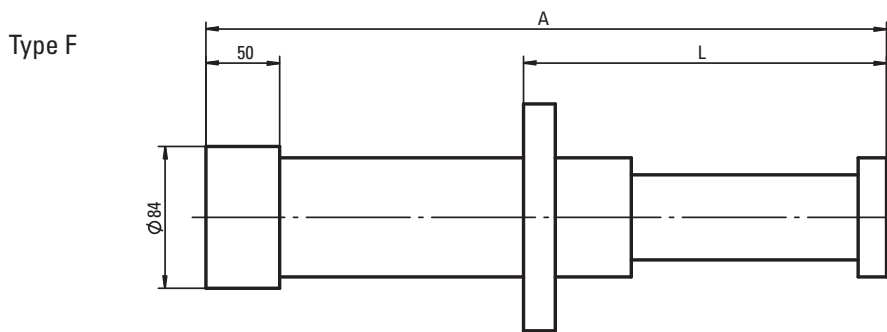
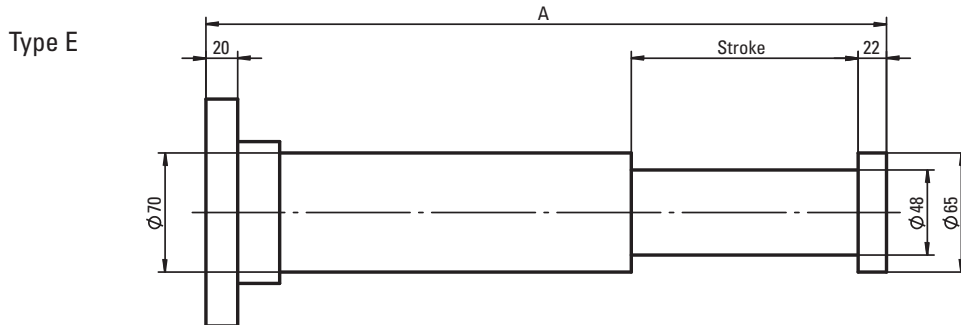
This includes the verification of the brake selection, if required. A detailed questionnaire is provided for this purpose. Installation and commissioning on-site by PINTSCH BUBENZER service engineers is possible. Drawings as DWG/DXF files for your engineering department are available upon request.

# Buffer Type BP 50

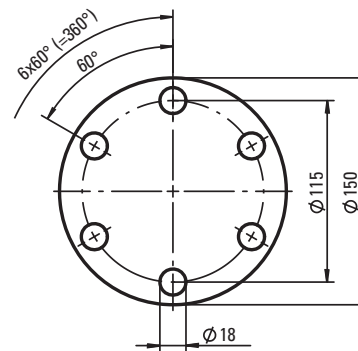
Dimensions and technical data



Rev. 04-14



Flange:



E = Back mounted  
F = Front mounted

All dimensions in mm  
Alterations reserved without notice

Stroke mm	Energy / Stroke E / F kJ (kJ)	* Max. damping force E / F kN	Inward force kN	Weight E / F kg	** Perm. angular dev. in degree	E / F A mm	F L mm
50	6	130	5,57	9	4,6	310	165
100	12			12	2,3	460	215
150	18			15	1,5	610	265
200	24			18	1,4	760	315
250	30			21	1,3	910	365
300	35			24	1,2	1060	415
350	41			27	1,1	1210	465
400	47			30	1,0	1360	515
450	53			33	0,9	1510	565
500	57			36	0,9	1660	615

Intermediate strokes are available on request!

\* For strokes > 350 mm: the damping force is initially lower than the maximum value.

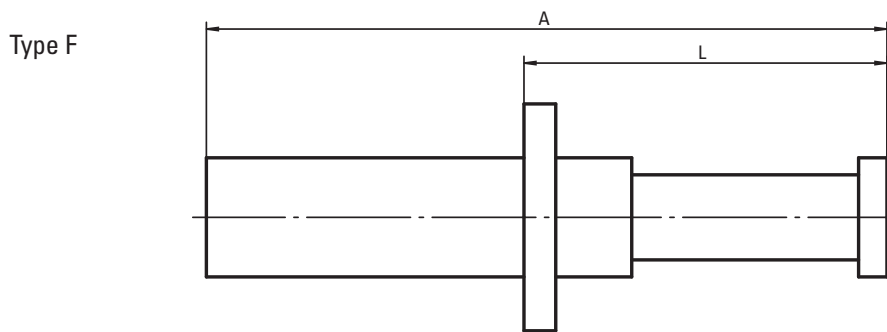
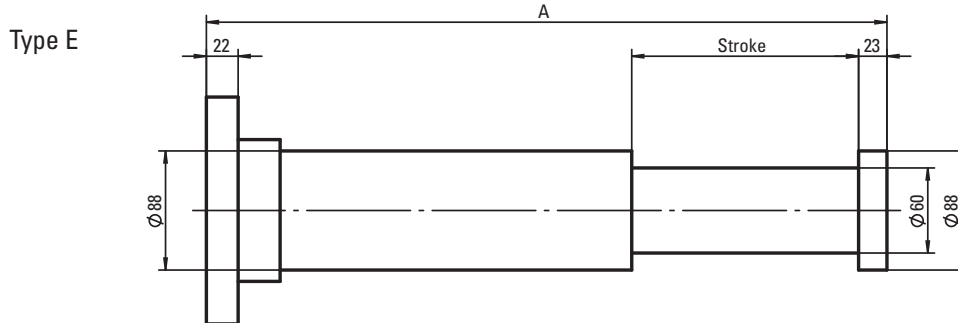
\*\* Relating to the max. permissible damping force

# Buffer Type BP 63

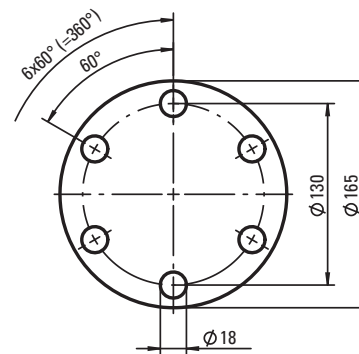
Dimensions and technical data



Rev. 05-14



Flange:



E = Back mounted  
F = Front mounted

All dimensions in mm  
Alterations reserved without notice

Stroke mm	Energy / Stroke E / F kJNm (kJ)	* Max. damping force E / F kN	Inward force kN	Weight E / F kg	** Perm. angular dev. in degree	E / F A mm	F L mm
100	16	180	8,84	16	2,9	480	270
200	33			22	1,5	760	370
300	49			28	1,0	1040	470
400	65			33	0,8	1320	570
500	81			39	0,8	1600	670
600	95			45	0,8	1880	770
700	107			51	0,8	2160	870
800	118			57	0,8	2440	970
900	127			63	0,8	2720	1070
1000	135			69	0,8	3000	1170

Intermediate strokes are available on request!

\* For strokes > 350 mm: the damping force is initially lower than the maximum value.

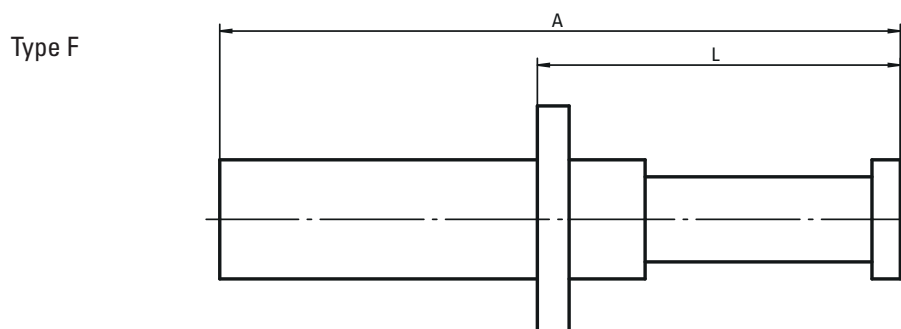
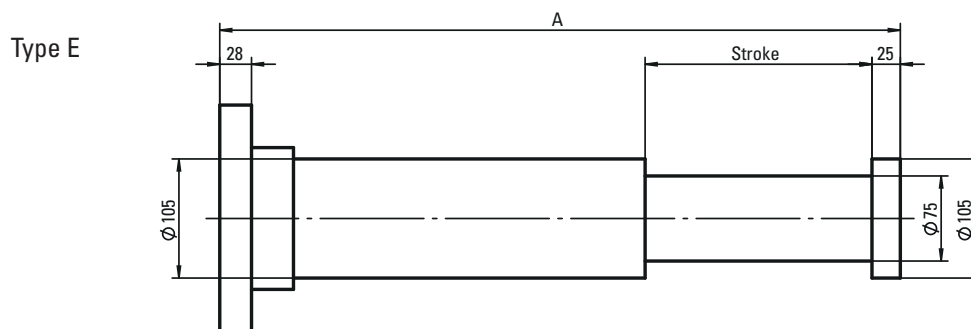
\*\* Relating to the max. permissible damping force

# Buffer Type BP 80

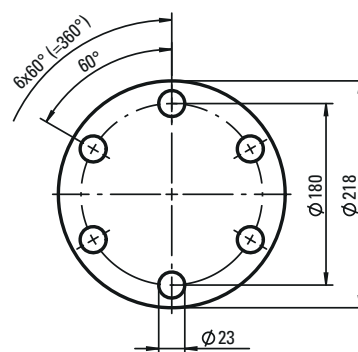
Dimensions and technical data



Rev. 05-14



Flange:



E = Back mounted  
F = Front mounted

All dimensions in mm  
Alterations reserved without notice

Stroke mm	Energy / Stroke E / F kJNm (kJ)	* Max. damping force E / F kN	Inward force kN	Weight E / F kg	** Perm. angular dev. in degree	E / F A mm	F L mm
100	26	290	14,25	24	2,9	477	305
200	53			30	1,5	754	405
300	79			36	1,0	1031	505
400	105			45	0,8	1308	605
500	131			53	0,8	1585	705
600	155			62	0,8	1862	805
700	177			69	0,8	2139	905
800	197			77	0,8	2416	1005
900	215			85	0,8	2693	1105
1000	231			93	0,8	2970	1205

Intermediate strokes are available on request!

\* For strokes > 350 mm: the damping force is initially lower than the maximum value.

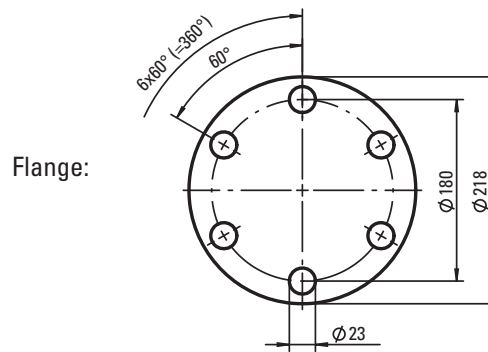
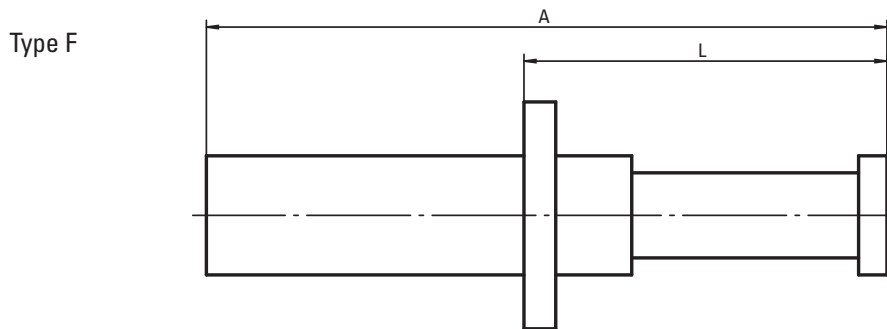
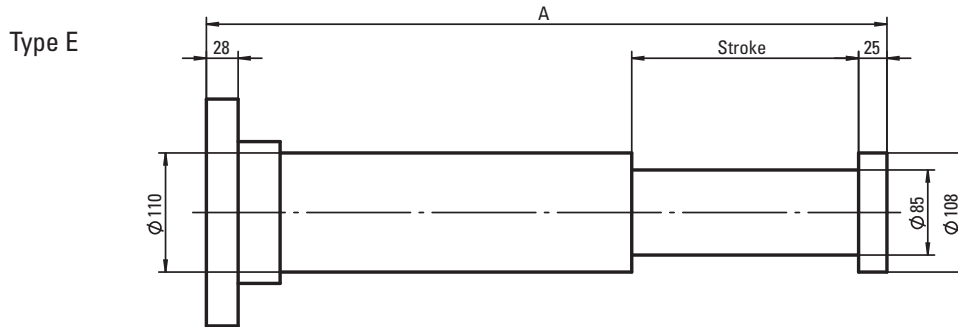
\*\* Relating to the max. permissible damping force

# Buffer Type BP 90

Dimensions and technical data



Rev. 05-14



E = Back mounted  
F = Front mounted

All dimensions in mm  
Alterations reserved without notice

Stroke mm	Energy / Stroke E / F kJm (kJ)	* Max. damping force E / F kN	Inward force kN	Weight E / F kg	** Perm. angular dev. in degree	E / F A mm	F L mm
100	31	350	18,3	26	2,0	477	305
200	64			33	1,5	754	405
300	95			39	1,0	1031	505
400	126			49	0,8	1308	605
500	157			58	0,8	1585	705
600	186			68	0,8	1862	805

Intermediate strokes are available on request!

\* For strokes > 350 mm: the damping force is initially lower than the maximum value.

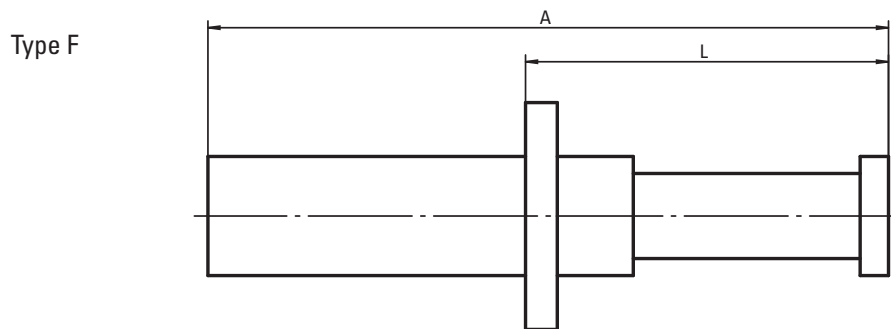
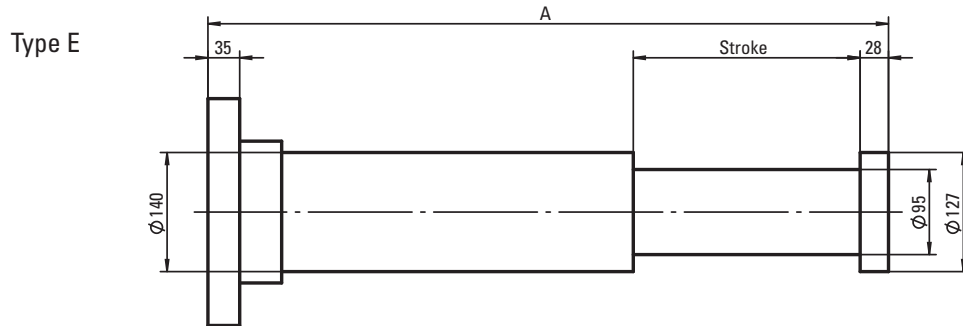
\*\* Relating to the max. permissible damping force

# Buffer Type BP 100

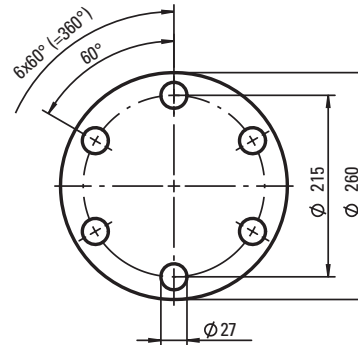
Dimensions and technical data



Rev. 05-14



Flange:



E = Back mounted  
F = Front mounted

All dimensions in mm  
Alterations reserved without notice

Stroke mm	Energy / Stroke E / F kJ	* Max. damping force E / F kN	Inward force kN	Weight E / F kg	** Perm. angular dev. in degree	E / F A mm	F L mm
100	45	500	22,3	46	2,5	504	340
200	91			60	1,3	780	440
300	136			74	0,9	1056	540
400	182			89	0,8	1332	640
500	225			103	0,8	1608	740
600	267			118	0,8	1884	840
700	306			132	0,8	2160	940
800	343			146	0,8	2436	1040
900	377			161	0,8	2712	1140
1000	409			175	0,8	2988	1240
1200	467			205	0,8	3280	1440

Intermediate strokes are available on request!

\* For strokes > 350 mm: the damping force is initially lower than the maximum value.

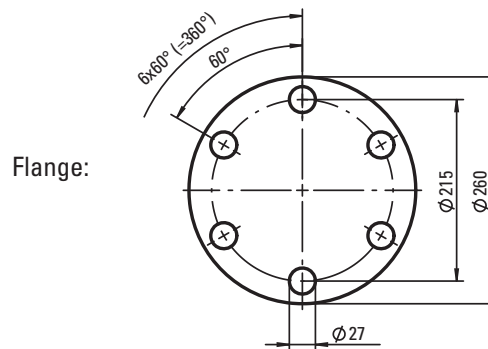
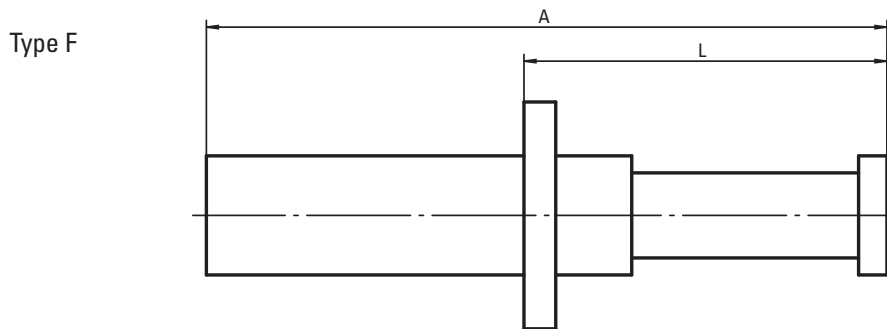
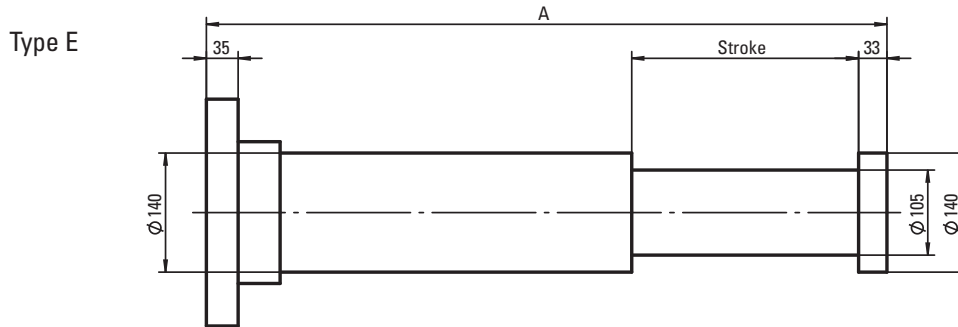
\*\* Relating to the max. permissible damping force

# Buffer Type BP 110

Dimensions and technical data



Rev. 05-14



E = Back mounted  
F = Front mounted

All dimensions in mm  
Alterations reserved without notice

Stroke mm	Energy / Stroke E / F kJm (kJ)	* Max. damping force E / F kN	Inward force kN	Weight E / F kg	** Perm. angular dev. in degree	E / F A mm	F L mm
100	67	750	24	48	2,0	504	340
200	136			62	1,5	780	440
300	204			76	1,0	1056	540
400	273			91	0,8	1332	640
500	337			105	0,8	1608	740
600	400			120	0,8	1884	840

Intermediate strokes are available on request!

\* For strokes > 350 mm: the damping force is initially lower than the maximum value.

\*\* Relating to the max. permissible damping force

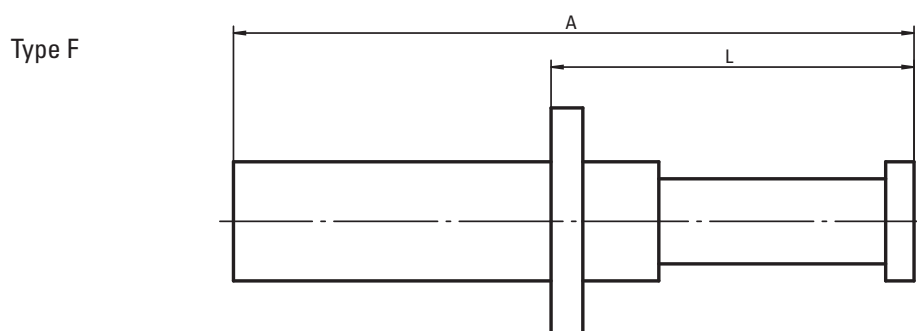
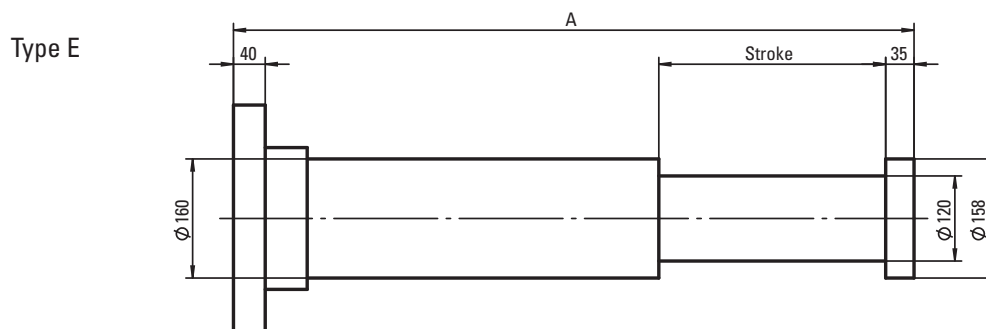


# Buffer Type BP 125

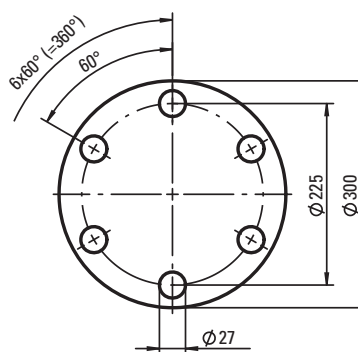
Dimensions and technical data



Rev. 05-14



Flange:



E = Back mounted  
F = Front mounted

All dimensions in mm  
Alterations reserved without notice

Stroke mm	Energy / Stroke E / F kJNm (kJ)	* Max. damping force E / F kN	Inward force kN	Weight E / F kg	** Perm. angular dev. in degree	E / F A mm	F L mm
100	71	780	34,8	64	4,4	540	375
200	142			82	2,2	820	475
300	213			100	1,5	1100	575
400	284			118	1,1	1380	675
500	355			136	0,9	1660	775
600	425			154	0,8	1940	875
700	496			171	0,8	2220	975
800	564			189	0,8	2500	1075
900	629			207	0,8	2780	1175
1000	691			225	0,8	3060	1275

Intermediate strokes are available on request!

\* For strokes > 350 mm: the damping force is initially lower than the maximum value.

\*\* Relating to the max. permissible damping force