



Eberspächer

Hochdruck Hydraulik • High-pressure hydraulics

Light-weight, heavy-duty flat jacks



630 bar

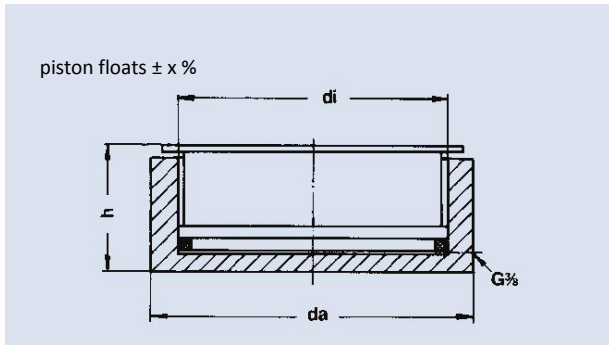
60 – 1000 t

50 mm stroke

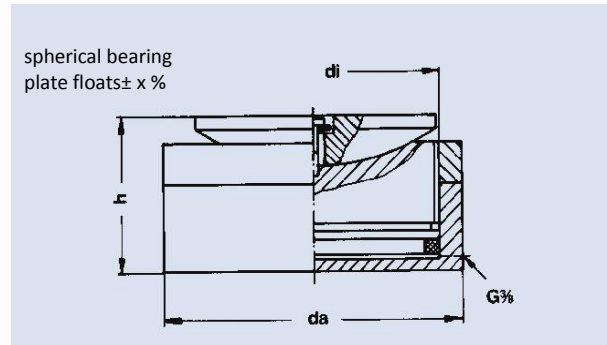
*Rent service: jacks with
locking ring, flat jacks,
pumps etc.*

We are your professional partner when it comes to heavy loads.

Series ZE with floating piston



Series ZERK with locking ring and spherical bearing plate



Series ZE with floating piston

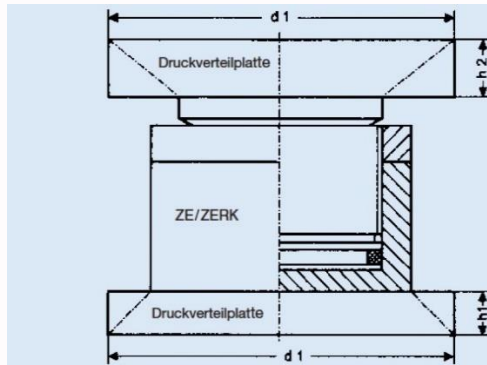
Permissible transverse force: 3 %

Type ZE	Lifting load t	A cm ²	di mm	da mm	X %	h mm	W kg	Olivol. l
ZE 678.1	60	95	110	150	4	100	10	0,5
ZE 669.2	100	154	140	185	4	102	15	0,9
ZE 683.1	125	201	160	200	4	104	17	1
ZE 670.1	160	254	180	220	4	106	20	1,25
ZE 684.2	200	314	200	240	4	107	24	1,6
ZE 671.1	240	380	220	263	4	107	28	2
ZE 672.2	310	491	250	308	4	110	42	2,5
ZE 673.1	390	616	280	344	4	111	51	3,2
ZE 674.1	500	804	320	393	3	113	69	4
ZE 675.2	640	1018	360	443	3	117	92	5
ZE 676.2	790	1257	400	492	3	121	117	6,3
ZE 677.2	1000	1590	450	553	3	125	158	8

Series ZERK with locking ring and spherical bearing plate

Permissible transverse force: 2 – 4 %, depending on stroke

Type ZERK	Lifting t	A cm ²	di mm	da mm	X %	h mm	W kg	Olivol. l
ZERK 678.1	60	95	110	150	5	132	17	0,5
ZERK 669.3	100	154	140	185	5	136	26	0,9
ZERK 683.4	125	201	160	200	5	143	32	1
ZERK 670.3	160	254	180	220	5	148	40	1,25
ZERK 684.5	200	314	200	240	5	155	50	1,6
ZERK 671.5	240	380	220	263	5	159	61	2
ZERK 672.3	310	491	250	308	4	172	91	2,5
ZERK 673.7	390	616	280	344	4	178	126	3,2
ZERK 674.10	500	804	320	393	3	192	177	4
ZERK 675.6	640	1018	360	443	3	201	236	5
ZERK 676.9	790	1257	400	492	3	222	321	6,3
ZERK 677.3	1000	1590	450	553	2	256	471	8

Compression distribution plates: Example for $p = 35\text{MN} / \text{m}^2$ (350 kp / cm^2)

Type ZE/ZERK	d1 mm	h1 mm	h2 mm
678	148	min. 10	19
669	191	min. 10	26
683	213	min. 10	27
670	241	11	31
684	270	14	35
671	296	15	38
672	336	17	43
673	377	20	49
674	427	22	54
675	483	24	62
676	536	26	68
677	603	30	77

Construction

The hydraulic jacks are extremely small in height. The jack bottoms are very thin and must be supported.

Application

The jacks are used for lifting of buildings, structures and machines. They are preferably used for adjustment during erection work, for correction of settlement and for exchanging of bearing elements

Limitations of use

When used on concrete parts, the hydraulic working pressure must be maintained so low that it conforms to the specific compressive load per unit area in the concrete. Improvement can be achieved by using suitable compression distribution plates – however, this requires an increased overall height. When used on steel parts, the neighbouring structural parts must be of bending-resistant design. Transmission of bending moments and eccentric loads of the piston is minimal.

Options

Safety valve or PTFE bearing bracket on request.
Corrosion protection for permanent installation.
Acceptance test certificate. Flat jacks available up to 1000 bar working pressure. Different strokes on request. For compact-size series, 630 bar, with guided piston, stroke stop and increased permissible transverse force see data sheet ZE 087 e.

Drive

Hand and motor pump units, distribution valves, tubing, couplers, etc. as specified in our data sheets.
Flow dividers for synchronous lifting and lowering of unequally loaded jacks.



Hydraulic hand pumps

Delivery rate steplessly adjustable
Maximum pressure 700 bar
With pressure-relief valve, drain valve and
pressure gauges



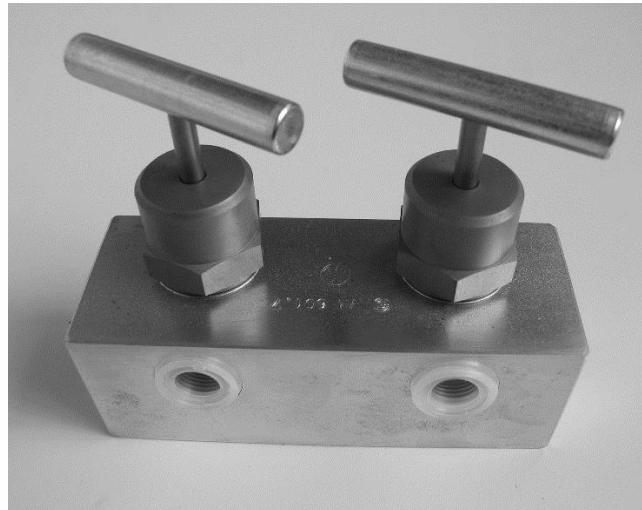
Small hydraulic power packs

Compact size, with or without manual or electrical
control
Up to 1000 bar, up to 7.5 kW
Device group AV



Hydraulic accessories

High pressure hoses: Device group XS
Quick couplers 700 bar, Ball valves, Hydraulic pipe
couplers, Pressure gauges



Hydraulic valve banks

for manifolds
Number of valves to be coupled, as required

