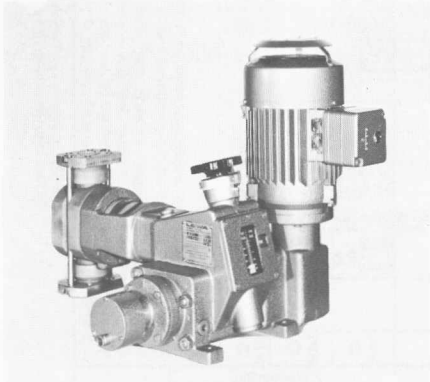
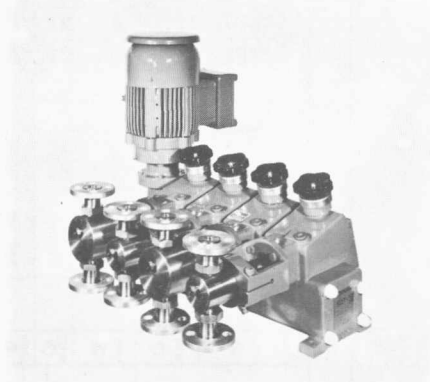


Type HU Rocker-Arm Pump Drive

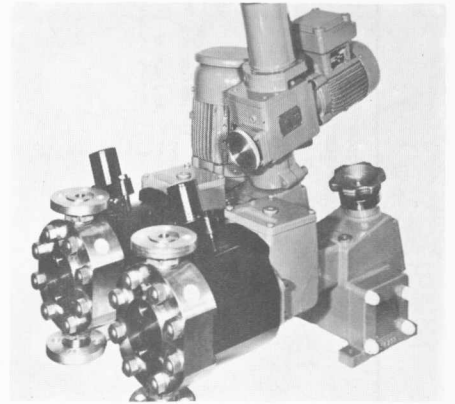


HU1 with plastics pump head and pulse transmitter

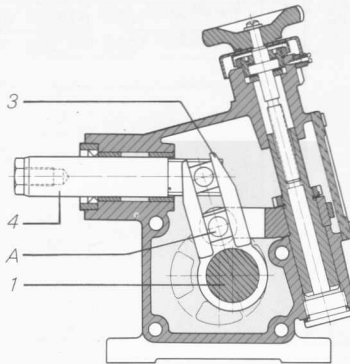
- Plunger rod force 2500 N (560 lbs).
- Max. stroke 20 mm (0.787 in.), infinitely variable when stopped or running, with manual, electric (analog or digital) or pneumatic adjustment.
- Constant front plunger dead center.
- Extended operating life assured by oversized components and choice of materials, oilbath lubrication of all moving parts, weather- and splashproof construction.
- Simple to operate, easy to maintain.
- Up to twelve HU pump drives can be arranged horizontally side by side, operated by single motor. The HU can be combined with any other LEWA-modular-system pump drive.
- Pump head types: plunger, diaphragm, bellows.
- Drive motor: 3-phase AC or DC.
- Pulse transmitters, remote tachometer etc. are optionally available.



HU4 with stainless steel plunger pump heads



HU2 with diaphragm pump heads, electric stroke actuator and manual stroke adjustment



Method of operation

Rocker arm (3) converts rotary motion of eccentric (1) into an oscillating movement, and transmits this to the plunger rod (4). Infinitely variable stroke adjustment, with the pump running or stationary, is obtained by moving of rocker arm fulcrum (A) through handwheel.

Distinctive features

Transmission components supported on two bearings.
Positive plunger movement.
Expanded stroke adjustment scale for maximum precision.
Constant front plunger dead center improves high-pressure, part-stroke metering accuracy and efficiency.

Performance data

Standard plunger (bellows) diameter mm	Q _{theor} [USGPH] ¹⁾ Displacement per pump head at max. stroke and no. of strokes n [min ⁻¹] ²⁾ n=150 n=192 n=246			Maximum operating pressure of standard pump heads p _{abs} [psia].														
				Plunger pump head.									Diaphragm pump head.					
				Type	K 101			K 102		K 102.1			K 102.2	K 105	K 301.1	M 112	M 122	M 122.1
				▶ K 101	K 101.1	K 102		K 102.1		K 102.2		K 105	K 301.1	M 112	M 122	M 122.1	M 152	
				▶ 2,3,3L,4,9	2,3 ⁵⁾	2	3	2,3,3L,4,9	2,3 ⁵⁾		3,4	5,6	3,4,9	3	2,3,4	3,4		
				▶ ASA	IG	IG	IG	ASA	IG	ASA		DIN	ASA	ASA	IG/ASA	ASA	DIN	
3	0,335	0,429	0,549	4620	-	2300	-	-	4620	-	2300	-	-	-	-	-	-	
5	0,933	1,194	1,530	4620	8200	2300	10000	8200	4620	8200	2300	2300	2300	2300	12500	2300	-	
8	2,390	3,059	3,920	4620	7100	2300	7100	4620	7100	2300	2300	300	2300	7100	2300	2300	2300	
10	3,735	4,781	6,125	4550	-	2300	-	-	4550	-	2300	2300	300	2300	4550	2300	2300	
12	5,379	6,885	8,822	3130	-	2300	-	-	3130	-	2300	2300	300	2300	3130	2300	2300	
16	9,561	12,24	15,68	1780	-	1780	-	-	-	-	1780	1780	300	1780	1780	1780	1780	
				Plunger pump head.									Diaphragm pump head.				Bellows.	
				▶ K 101	K 101.1	K 102.1	K 102.2	K 105	K 301	K 301.1		M 112	M 114/5	M 122.1	M 152	M 314/5	B 501	
				▶ 1	2-4	3 ⁵⁾	2-4	3 ⁵⁾	3,4	5,6	5,6	3,4	2,3,4	3,4	3,4	5,6	16	
20	14,94	19,12	24,50	-	1150	1150	1150	1150	1150	300	300	1150	1150	1150	1150	300	71	
25	23,34	29,88	38,28	-	720	720	720	720	720	300	300	720	720	720	720	300	-	
30	33,62	43,03	55,14	-	510	510	510	510	510	300	300	510	510	510	510	300	-	
36	48,39	61,94	79,36	-	355	355	355	355	355	300	300	355	355	355	355	300	71	
44	72,30	92,54	118,6	-	245	245	245	245	245	245	245	245	245	245	245	245	-	
52	101,0	129,3	165,6	-	182	182	182	182	182	182	182	182	182	182	182	182	-	
57	121,3	155,3	198,8	-	-	-	-	-	-	-	-	-	-	-	-	-	71	
60	134,4	172,0	220,4	140	140	140	140	140	140	140	140	140	140	140	140	140	-	
70	183,0	234,2	300,1	106	106	-	-	-	106	106	-	-	106	-	-	106	-	
76	215,7	276,1	353,7	-	-	-	-	-	-	-	-	-	-	-	-	-	71	
85	269,7	345,2	442,3	78	78	-	-	-	78	78	-	-	78	-	-	78	-	
100	373,2	477,7	612,1	50	50	-	-	-	50	50	-	-	50	-	-	50	-	

1) Q_{theor} from stroke volume x strokes per minute; Q_{eff} (= Q_{theor} x η_F) is quoted on specification sheet. For multiple-unit pumps, determine total metered flow by multiplying with the number of pump heads.

2) Other stroking speeds up to max. 320 str./min. available.

3) 1=Cast steel; 2=13% Cr steel; 3=CrNiMo 18/10/2 stainless steel; 3L= food industry version; 4=Hastelloy C; 5=PVC; 6=PTFE; 9=titanium; 16=glass. Other materials, i. e. tantalum, nickel, Hastelloy B, monel, polyethylene or PTFE-carbon to special order.

4) Standard pump head connections: FNPT thread or ASA flanges, sanitary connections. IG-high pressure connection. Specials on request.

5) With stuffing box flushing, operating pressure is restricted to max. 730 psia.

