

Gear Pumps, with Outside Bearings – Series A9 and A 13 (17-749 401)

3

for the delivery of media with low lubricating properties

Size, cm ³	4.6	7.2	11.5	18.5	29	46	72	115
Output volume, m ³ /h	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0
Discharge pressure, bar								
• Grey cast iron version	10							
• Chromium steel version	6.3							
Speed, r.p.m.	500 bis 1450							
Viscosity, mm ² /s	20 to 3500							
(dependent on speed)								

- The material variant of grey cast iron or chromium steel is offered according to the medium to be delivered
- Construction also as combination with electric motor on common base plate
- Direction of rotation: as desired, the direction of rotation corresponds to the direction of delivery
- On account of the specific of the media to be delivered an advice by us brings often solutions even at deviations from the indicated date

Gear Pumps, with Outside Bearing – Series AC 13 (17-749 402)

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for the delivery of viscous media with low lubricating properties

Size, cm ³	267	420	670	1050	1670	2670
Output volume, m ³ /h	4.0	6.3	10	16	25	40
Discharge pressure, bar						
• grey cast iron version	10					
• chromium steel version	6.3					
Speed range, r.p.m.	100 to 250					
Viscosity, mm ² /s	20 to 4000					
(dependent on speed)						

- The material variant of grey cast iron or chromium steel is offered according to the medium to be delivered
- Construction also as combination with electric motor on common base plate
- Direction of rotation: as desired, the direction of rotation corresponds to the direction of delivery
- On account of the specific of the media to be delivered an advice by us brings often solutions even at deviations from the indicated data

Gear Pumps, with Inside Bearings – Series A (17-747 401)

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for the delivery of lubricating and hydraulic oils as well as related products

Size $\hat{=}$ output volume, m ³ /h	0.063	0.1	0.16	0.25
Discharge pressure, bar	16			
Speed range, r.p.m.	500 to 1450			
Viscosity, mm ² /s	20 to 400			
(dependent on speed)				

- Foot or flange mounting
- Flanged units also as combination with intermediate flange and electric motor
- Optional with relief valve
- Direction of rotation: anticlockwise or clockwise

Gear Pumps for Lubricating Oil (17-747 407)

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for the application in lubrication and control circuits

Size $\hat{=}$ output volume, dm ³ /min	1.6	2.5	4
Discharge pressure, bar	6.3		
Maximum operating pressure, bar	10		
Speed range, r.p.m.	500 to 3000		
Viscosity, mm ² /s	20 to 400		

- Optional with shaft sealing
- Construction also as combination with electric motor
- Direction of rotation: as desired
- Direction of delivery: constant or alternating

Gear Pumps for Fuel Oil

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for the delivery of fuel oil of the grades HE-C and HE-D (3667)

Size	16/4.0-210
Displacement, cm ³	16
Maximum operating pressure, bar	40
Speed range, r.p.m.	750 to 2000
Viscosity, mm ² /s	12 to 500
Maximum operating pressure, °C	130

- Further nominal sizes according to our assortment of gear pumps are possible
- Construction also as combination with electric motor
- Direction of rotation: clockwise (by preference)
- Port dimensions optional according to gear pumps of series 15



Gear Pumps for Refrigerator Oil

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Nominal size	100/4 L-1	100-100/4 L-1
Displacement, cm ³	104	each 104
Maximum pressure increase as compared with input pressure, bar	4.0	
Input pressure, bar	0.5 to 18	
Speed range, r.p.m.	700 to 1450	
Viscosity, mm ² /s	8 to 30	

- The nominal size 100-100/4 L-1 has two flow rates, construction also as combination with electric motor
- Direction of rotation: anticlockwise

Gear Pumps, Single-Flow Type

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for the delivery of lubricating and hydraulic oils (also in low-pressure hydraulic systems)

Rated speed	1450 r.p.m.
Speed range	500 to 1450 r.p.m.
Range of viscosity	20 to 700 cSt
Range of fluid temperature	- 20 to 80 °C

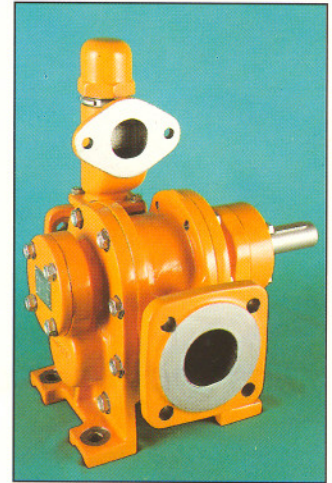
with Threaded Port

Rated pressure	16 bar
Nominal size = flow rate	0.4; 0.63; 1.0; 1.6; 2.5 m ³ /h

with Flanged Port

Rated pressure	10 bar
Nominal size = flow rate	4; 6.3; 10; 16; 25; 40; 63 m ³ /h

- Direction of rotation clockwise or anticlockwise or as desired
- Pump for foot or flange mounting
- Also with relief valve
- Shaft sealing with rotary shaft seal or with stuffing box packing
- Deliverable as combination with electric motor

**Gear Pumps, Double-Flow Type**

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for the delivery of lubricating and hydraulic oils (also in low-pressure hydraulic systems)

Rated speed	1450 r.p.m.
Speed range	500 to 1450 r.p.m.
Viscosity range	20 to 700 cSt
Range of fluid temperature	- 20 to 80 °C

with Threaded Port

Rated pressure	10 bar
Nominal size = flow rate	0.4-0.4; 0.63-0.63; 1.0-1.0; 1.6-1.6; 2.5-2.5; 3.15-2.5; 6.3-5.0 m ³ /h

with Flanged Port

Rated pressure	6.3 bar
Nominal size = flow rate	4.0-4.0; 6.3-6.3; 10.0-10.0; 16-16; 25-25 m ³ /h

- Direction of rotation clockwise or anticlockwise
- Pump for foot or flange mounting
- With relief valve
- Shaft sealing with rotary shaft seal or with stuffing box packing
- Deliverable also as combination with electric motor

Test Pumps (pressure generators for water and kerosene as medium)

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Rated pressure	16; 100; 1000 bar
Displacement	330; 30; 80/4 cm ³ /double stroke

- Completable with reservoir