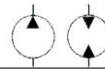


## Section 2

300 КД/2005

2.1 Fixed displacement hydraulic pumps and motors  
410 series

Sheet 8

Sheets 10

Structural designation diagram of hydraulic machines 410 series

410 □ □ □ □ □ □ □ □ □ □

Series		Climatic version and disposition category		56	107
410 = fixed displacement hydraulic motor bent-axis					
56		Hydraulic machine version			
● ●		0 = basic hydraulic machine			
○ ○		1 = built-in hydraulic machine			
56		Working displacement			
●		056 = 56 cm <sup>3</sup> /rev.			
●		107 = 107 cm <sup>3</sup> /rev.			
56		Rotation direction			
● ●		W = reversible (motor)			
● ●		L = counterclockwise (pump)			
● ●		R = clockwise (pump)			
56		Mounting flange			
● ●		M1 = ISO 4 holes			
○ ○		M2 = 2 holes (only for version 1)			
56		Shaft version			
		A1			
● -		A2 = splined W35x2x30x16x9g DIN5480			
- ○		A3			
- ●		A4 = splined W45x2x30x21x9g DIN5480			
		A5			
		A6			
● -		Z1 = keyed $\varnothing$ 30k6 A8x7x50 DIN 6885			
- ●		Z2 = keyed $\varnothing$ 40k6 A12x8x63 DIN 6885			
		Special functions		56 107	
		NN = absent		○ ●	
		Working channels mounting		56 107	
F1		0 = 2 flanges at buttend		● ●	
F1		1 = 2 flanges at buttend		○ ○	
F1		2 = 2 flanges at buttend		○ ○	
F2		0 = 2 flanges on each side		○ ○	
F3		0 = 2 flanges sideways		○ ○	
F3		1 = 2 flanges sideways		○ ○	
F3		2 = 2 flanges sideways		○ ○	
F4		0 = 1 flange connection 1 threaded connection opposite sideways		○ ○	
F4		1 = 1 flange connection 1 threaded connection opposite sideways		○ ○	
F4		2 = 1 flange connection 1 threaded connection sideways opposite		○ ○	
F5		0 = threaded connection sideways opposite		○ ○	
F5		1 = threaded connection sideways opposite		○ ○	
F5		2 = threaded connection sideways opposite		○ ○	
F6		0 sideways opposite		● ●	
		Valve			
		0 = absent			
		1 = rinsing valve			
		2 = safety booster valves			
		3 = safety booster valve and by-pass valve			
		4 = rinsing block			

○ - in development

● - delivered

Max input working pressure:


- continuous 400 bar
- peak 450 bar

## Pumps technical parameters

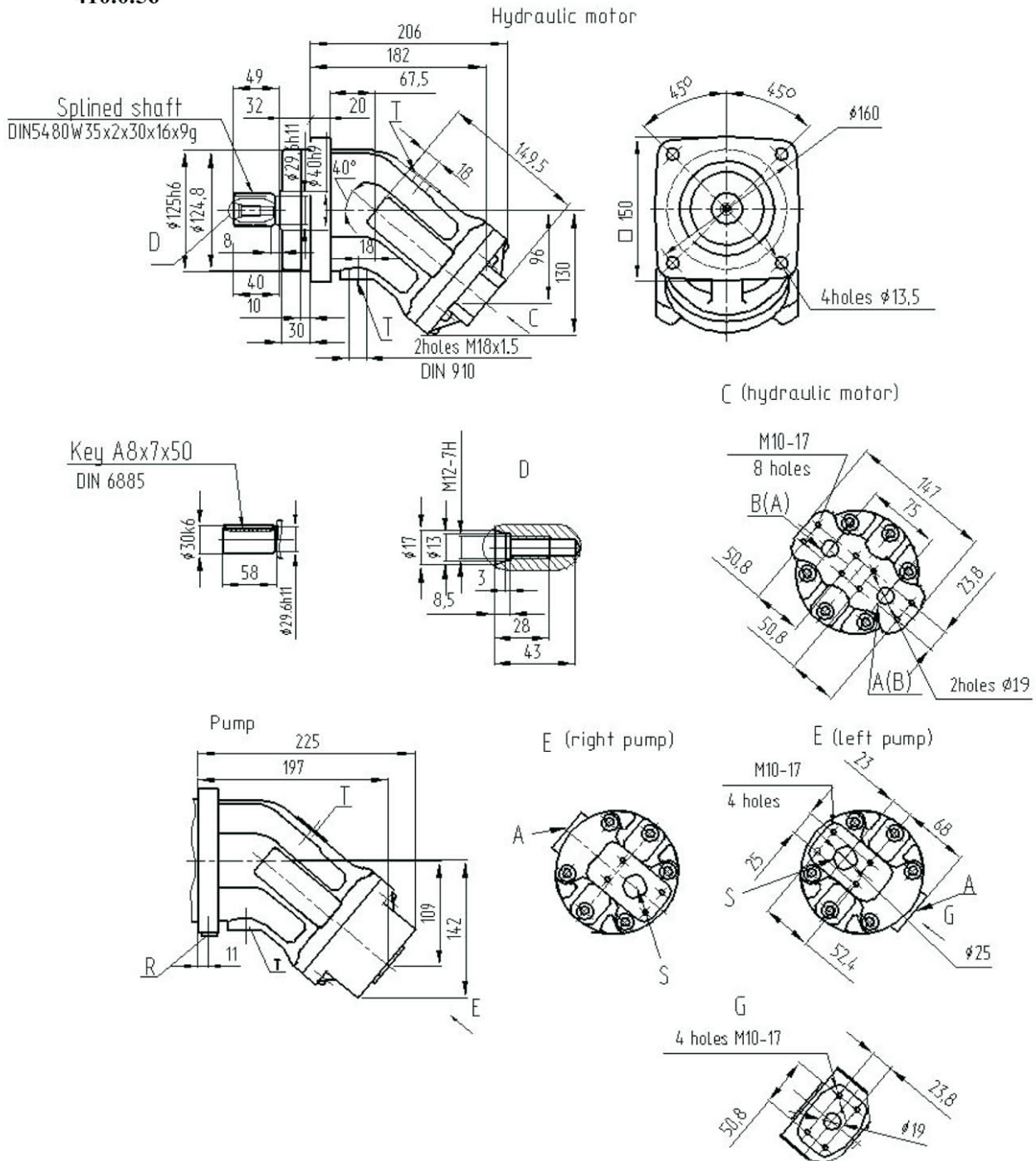
Size		56	107
Working displacement	$Vg_{max}$	cm <sup>3</sup>	56,1 106,7
Max rotation speed at $p_{ax} = 0,2 MPa$	$n_{max}$	min <sup>-1</sup>	3750 3000
Feed at $n_{max}$	$Q_{V_{max}}$	l/min	210 320
Power at $\Delta p = 450 bar$ at $\Delta p = 400 bar$	$N_{max}$	kW	141 214 125 190
Torque at $\Delta p = 450 bar$ at $\Delta p = 400 bar$	$M_{max}$	Nm	358 682 319 606
Weight	$m_{max}$	kg	18 32

## Hydraulic motors technical parameters:

Size		56	107
Working displacement	$Vg_{max}$	cm <sup>3</sup>	56,1 106,7
Max rotation speed	$n_{max}$	min <sup>-1</sup>	3750 3000
Consumed flow	$Q_{V_{max}}$	l/min	280 320
Torque at $\Delta p = 450 bar$ at $\Delta p = 400 bar$	$M_{max}$	Nm	358 684 318 608
Weight	$m_{max}$	kg	18 32

<b>Section 2</b>	<b>300 КД/2005</b>		
<b>2.2 Fixed displacement hydraulic pumps and motors</b> <b>410 series</b>		<b>Sheet 9</b>	<b>Sheets 10</b>

**410.0.56**

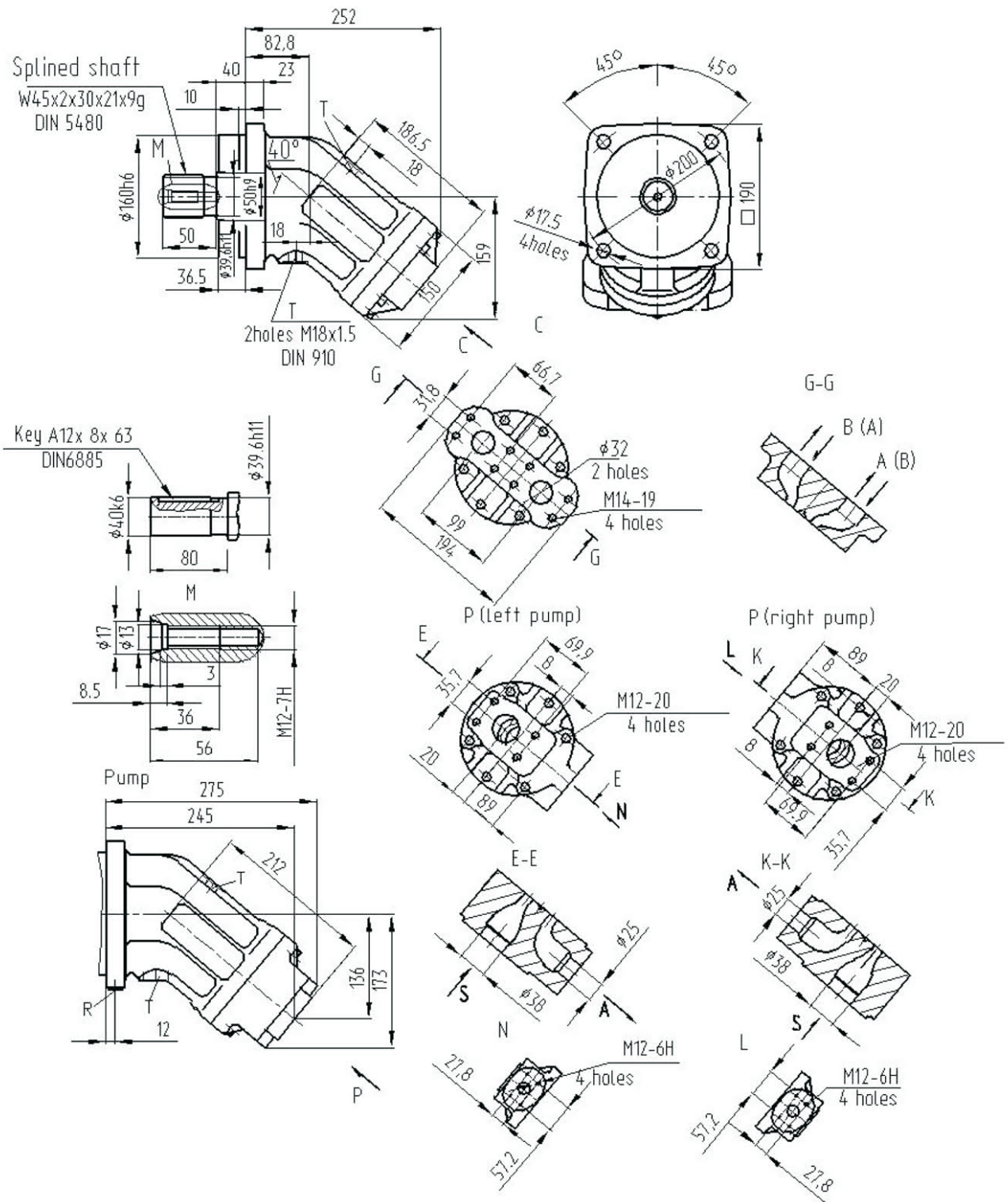


- A,B – connecting points of operating lines;
- S – connecting point of a suction line
- T – drain
- R – air evacuation

<b>Section 2</b>	<b>300 KД/2005</b>		
<b>2.2 Fixed displacement hydraulic pumps and motors</b>		<b>Sheet 10</b>	<b>Sheets 10</b>
<b>410 series</b>			

**410.0.107**

Hydraulic motor



A,B – connecting points of operating lines  
 S – connecting point of a suction line  
 T – drain  
 R – air evacuation