

## hp-Twin-pumping unit Series BIK

hp-Twin-pumping unit in screwed-on or flanged design as feed or pressure units for oil supply to TRD 411 or TRD 604 and DIN 4755-2 must be constructed, tested, registered and labelled to test standard DIN EN 12514-1. For fuel oil supply diagram, see page 101.



### General specifications:

#### Viscosity range:

Motor capacities of the units are designed for:

- Viscosities up to 80 cSt. for units for fuel oil EL, L
- Viscosities up to 150 cSt. for units for fuel oil M, S + ES

Please ask for any differing conditions.

#### max. permitted underpressure:

Measured on the manometer item 3 ≤ -0.6 bar

#### max. system pressure:

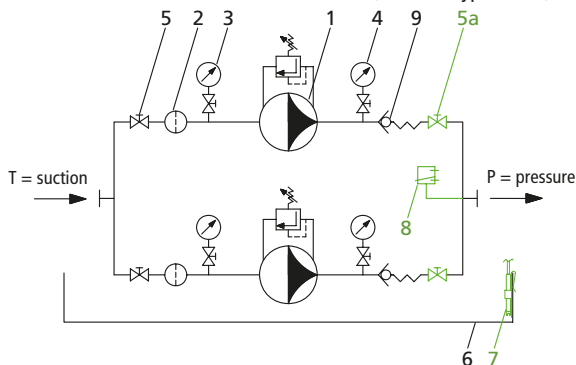
5 bar

### Order text:

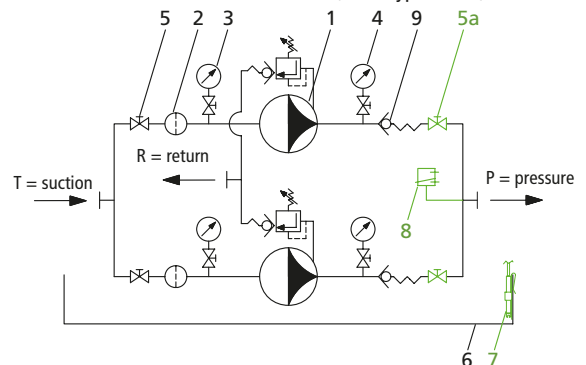
hp-Twin-pumping unit

- Series BIK: see model key
- Discharge/pressure: ... l/h, max. pressure in bar
- Medium: ...
- Operating pressure: ... bar
- Motor: ... kW ... V, 50/60 Hz
- Accessories: see model key

### Scheme I for BIK 50, BIK 51 and BIK 55 series (without bypass line)



### Scheme III for BIK 52 and BIK 54 series (with bypass line)



### Scope of supply:

- 1 hp-Motor pump group
- 2 Single filter
- 3 Vacuum gauge
- 4 Pressure gauge
- 5 Ball valve
- 6 Oil pan
- 9 Nonreturn valve

### Optional accessories:

- 5a Ball valve pressure side (from 3000 l/h – scope of supply)
- 7 Leakage detector LH
- 8 Electrical pressure switch or pressure transmitter S / DT

## Model key for determining order specifications

BIK...	Series	Size	Accessories*
50	= Feeder unit <b>9 bar</b> and <b>6 bar</b> , <sup>1)</sup> heating oil EL + L, kerosene	Discharge see data tables	A = Filter and pump with electrical auxiliary heating with connecting box
51	= Feeder unit <b>9 bar</b> , heating oil M, S + ES, mineral tar oil		EF = with 2 single filters
52	= Pressure unit <b>30 bar</b> , heating oil EL + L + kerosene		DF = with changeable double filter
54	= Pressure unit <b>40 bar</b> , heating oil EL + L		E1 = with optical filter detection
55	= Pressure unit <b>40 bar</b> , heating oil M, S + ES		E2 = with optical and electrical filter detection (E1 and E2)
Other designs on request			LH = Oil pan equipped with oil leakage detection

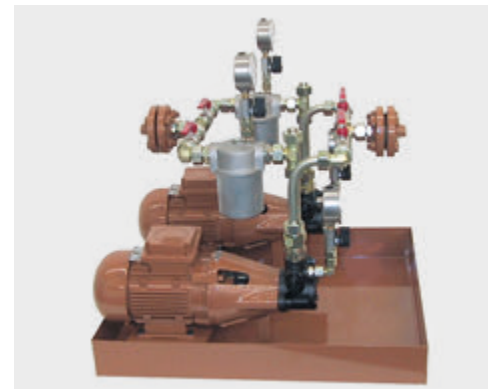
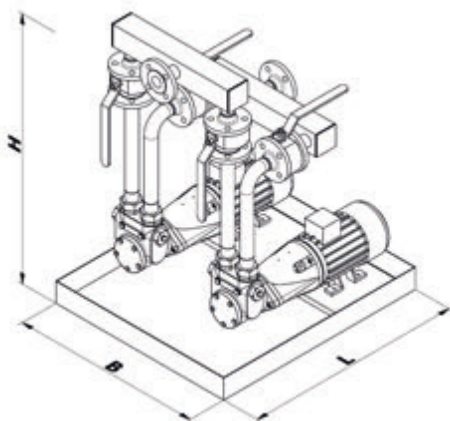
\* List key letters one after the other

<sup>1)</sup> When used as feed pump aggregate for fuel oil supply to DIN 4736, the max. operating pressure of 6 bar must not be exceeded.

Note: In the place where it is fitted, as a "lower limiter" an electrical pressure monitor must be provided as a pipe break check. This condition is met by selecting the "S" accessory.

Item no. for accessories: Accessories "A" filter + pump with electrical auxiliary heating, accessories E1, E2, L and S see page 96.

## hp-Twin-pumping unit Series BIK



### Feed pump aggregate according to Scheme I without bypass for fuel oil EL, L - max. pressure 9 bar

Unit model	Device connections*		Discharge at 1400 RPM at 0 - 9 bar	used		Item No.:		Unit dimensions L x B [mm]	max. pressure [bar]
	screw-fitted	flanged		Pump model	Motor power [kW]	screw-fitted design	flanged design		
BIK 5001	Pipe Ø 12	-	45	VB P	0.18	0520046	-	600x500	designed for max. pressure of 9 bar
BIK 5002	Pipe Ø 12	-	80	VB M	0.18	0520047	-	600x500	
BIK 5003	Pipe Ø 12	-	120	VB G	0.18	0520048	-	600x500	
BIK 5004	Pipe Ø 12	-	160	VB F	0.18	0520049	-	600x500	
BIK 5005	Pipe Ø 18	DN 15	300	VBG P	0.18	0520050	0520051	600x500	
BIK 5006	Pipe Ø 18	DN 15	450	VBG M	0.37	0520056	0520052	600x500	
BIK 5007	Pipe Ø 18	DN 15	600	VBG G	0.37	0520057	0520053	600x500	
BIK 5008	Pipe Ø 22	DN 25	1000	VBH P	0.75	0520058	0520054	800x700	
BIK 5009	Pipe Ø 22	DN 25	1500	VBH M	0.75	0520059	0520055	800x700	
BIK 5010	Pipe Ø 22	DN 25	2000	VBH G	1.1	0520060	0520064	800x700	
BIK 5011	-	DN 32	3000	VBHG P	1.5	-	0520061	800x700	
BIK 5011-1	-	DN 32	3700	VBHG PZ	1.5	-	0520065	800x700	
BIK 5012	-	DN 32	4500	VBHG M	2.2	-	0520062	800x700	
BIK 5013	-	DN 40	6000	VBHG G	3.0	-	0520063	800x700	

to  
DIN EN 12514-1  
max. working  
pressure of  
6 bar.

### Feed pump aggregate according to Scheme I without bypass for fuel oil M, S + ES - max. pressure 9 bar

Unit model	Device connections*		Discharge at 1400 RPM at 0 - 9 bar	used		Item No.:		Unit dimensions L x B [mm]	Stationary and auxiliary heating accessory "A"	max. pressure [bar]
	screw-fitted	flanged		Pump model	Motor power [kW]	screw-fitted design	flanged design			
BIK 5101	Pipe Ø 12	-	45	VB P	0.18	0520111	-	600x500	When used for fuel oil S + ES urgently recommended.  See page 96	designed for max. pressure of 9 bar
BIK 5102	Pipe Ø 12	-	80	VB M	0.18	0520112	-	600x500		
BIK 5103	Pipe Ø 12	-	120	VB G	0.18	0520113	-	600x500		
BIK 5104	Pipe Ø 12	-	160	VB F	0.18	0520114	-	600x500		
BIK 5105	Pipe Ø 18	DN 15	300	VBG P	0.18	0520115	0520330	600x500		
BIK 5106	Pipe Ø 18	DN 15	450	VBG M	0.37	0520116	0520331	600x500		
BIK 5107	Pipe Ø 18	DN 15	600	VBG G	0.37	0520117	0520332	600x500		
BIK 5108	Pipe Ø 22	DN 25	1000	VBH P	0.75	0520118	0520333	800x700		
BIK 5109	Pipe Ø 22	DN 25	1500	VBH M	0.75	0520119	0520334	800x700		
BIK 5110	Pipe Ø 22	DN 25	2000	VBH G	1.1	0520120	0520335	800x700		
BIK 5111	-	DN 32	3000	VBHG P	1.5	-	0520336	800x700		
BIK 5111-1	-	DN 32	3700	VBHG PZ	1.5	-	0520339	800x700		
BIK 5112	-	DN 32	4500	VBHG M	2.2	-	0520337	800x700		
BIK 5113	-	DN 40	6000	VBHG G	3.0	-	0520338	800x700		

\* To ensure the pump is working properly, the pipes must be scaled according to the principles of fluid dynamics by calculation of line according to the local requirements. The pump or device connection gives no indication of the relevant size of the pipe.

Motors used to IE 3, IP 55, 230/400 V from 4 kW 400/690 V, 50 Hz can also be used in 60 Hz operation – other voltages, frequencies and protection types on request.  
Specifications for dimensions are guidelines, we will send the actual setup diagram when the order is placed.  
Other designs or accessories (e.g. double filters, solenoid valves etc.) can be planned and provided on request.