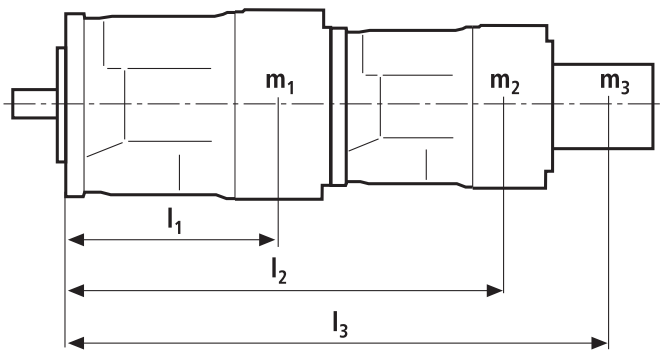
The A10VSO pump can be supplied with through drive in accordance with the type code on page 3.
The through drive version is designated by the code numbers (KB2–K57).
If no other pumps are fitted by the manufacturer, the simple type designation is sufficient.
in this case, the delivery package comprises:
Hub, fixing screws, seal and, if necessary, an adaptor flange.

Combination pump

By building on further pumps it is possible to obtain independent circuits:

1. If the combination pump consists of **2 A10VSO** and if these are to be **supplied assembled** then the two order codes should be linked by means of a „+" sign.
   Ordering example:
   A10VSO 71 DR/31 L–PPA12KB3 **+**
   A10VSO 28 DR/31 L–PSA12N00
2. If a **gear or radial piston pump** is to be built on at the factory, please consult us.

Permissible moment of inertia

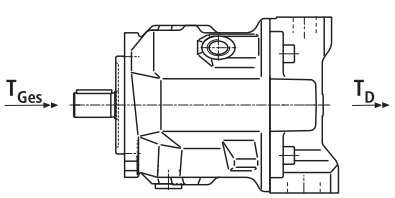


m_1, m_2, m_3 [kg] Pump mass
l_1, l_2, l_3 [mm] Distance to center of gravity

$$T_m = (m_1 \bullet l_1 + m_2 \bullet l_2 + m_3 \bullet l_3) \bullet \frac{1}{102} \text{ [Nm]}$$

Size			28	45	71	100	140
Permissible moment of inertia T_m		Nm	880	1370	2160	3000	4500
Permissible moment of inertia T_m at dynamic mass acceleration 10g ≙ 98.1 m/sec^2		Nm	88	137	216	300	450
Mass	m_1	kg	15	21	33	45	60
To center of gravity	l_1	mm	110	130	150	160	160

Maximum permissible input and through drive torque



The split in torque between pump 1 and 2 is optional. The max. permissible input torque T_{tot} as well as the max. permissible through-drive torque T_D may not be exceeded.

Size			28	45	71	100	140
Max. permissible input torque at pump 1 with shaft "**P**"							
	T_{tot}	Nm	137	200	439	857	1206
Max. permissible through-drive torque	T_D	Nm	137	200	439	778	1206
	$T_{D\ keyed\ shaft}$	Nm	112	179	283	398	557

Size			28	45	71	100	140
Max. permissible input torque at pump 1 with shaft "**S**"							
	T_{tot}	Nm	198	319	626	1104	1620
Max. permissible through-drive torque	T_D	Nm	160	319	492	778	1266
	$T_{D\ keyed\ shaft}$	Nm	112	179	283	398	557

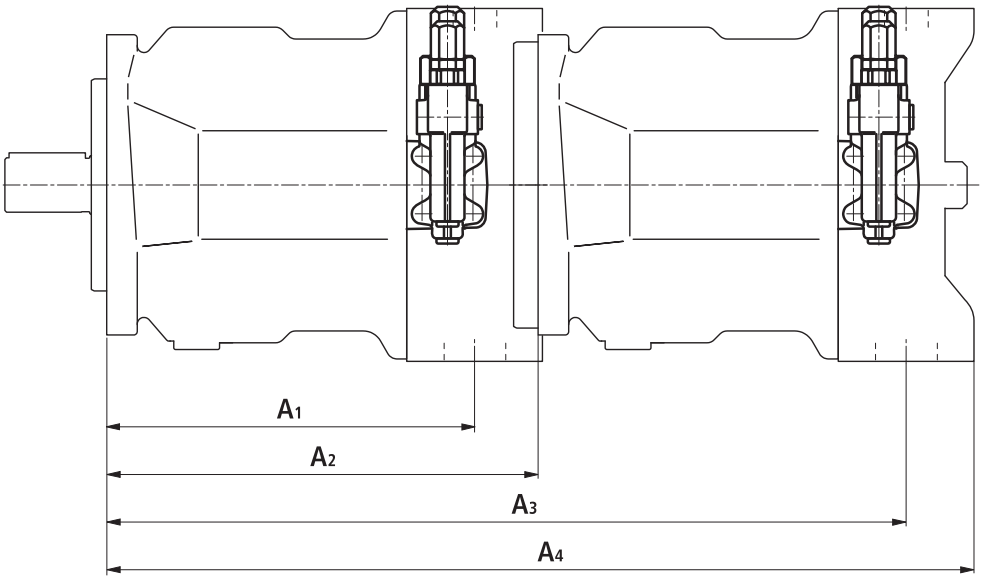
Size			28	45	71	100	140
Max. permissible input torque at pump 1 with shaft "**R**"							
	T_{tot}	Nm	225	400	644	–	–
Max. permissible through-drive torque	T_D	Nm	176	365	548	–	–
	$T_{D\ keyed\ shaft}$	Nm	112	179	283	–	–

T_{tot} = Max. permissible input torque at pump 1

T_D = Max. permissible through-drive torque at through-drive to splined shaft

$T_{D\ keyed\ shaft}$ = Max. permissible through-drive torque at through-drive to keyed shaft

A10VSO + A10VSO

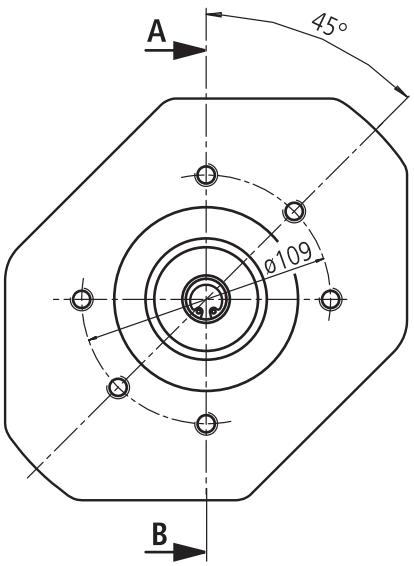


main p. / built-on p.	A10VSO 28				A10VSO 45				A10VSO 71				A10VSO 100				A10VSO 140			
	A_1	A_2	A_3	A_4	A_1	A_2	A_3	A_4	A_1	A_2	A_3	A_4	A_1	A_2	A_3	A_4	A_1	A_2	A_3	A_4
A10VSO 18	164	204	349	399	184	229	374	424	217	267	412	462	275	338	483	533	275	350	495	545
A10VSO 28	164	204	368,5	410	184	229	393,5	435	217	267	431,5	473	275	338	502,5	544	275	350	514	556
A10VSO 45	–	–	–	–	184	229	413	453	217	267	451	491	275	338	522	562	275	350	534	574
A10VSO 71	–	–	–	–	–	–	–	–	217	267	484	524	275	338	555	595	275	350	567	609
A10VSO 100*	–	–	–	–	–	–	–	–	–	–	–	–	275	338	613	664	275	350	625	679
A10VSO 140*	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	275	350	625	688

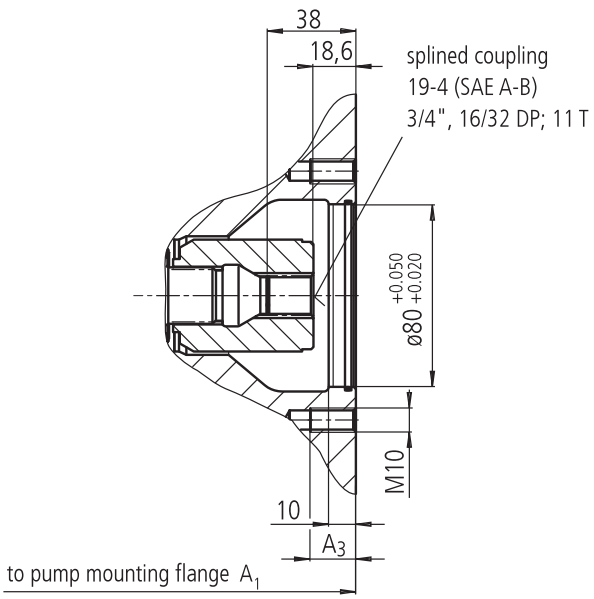
* Values with through drive KB6 or KB7 (splined shaft)

Flange ISO 80, 2-hole for built-on A10VSO 10 (splined shaft S, mounting flange A,) or A10VSO 18 (splined shaft S or R, mounting flange A,)

Order code **KB2**



section A - B

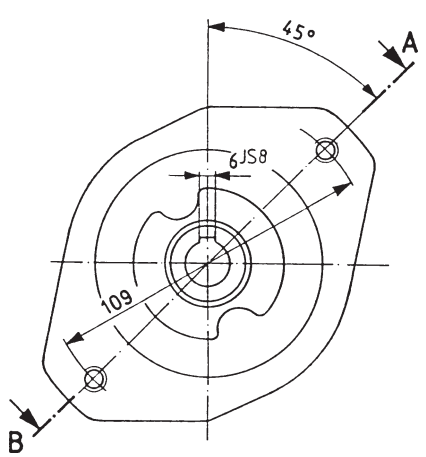


Size main pump	A_1	A_3
18 (see RD 92712)	182	14,5
28	204	16
45	229	16
71	267	20

For operation with HF-fluids please consider RE-data sheet of built-on pump.

Flange ISO 80, 2-hole for built-on A10VSO 10 (shaft P, flange A,) or A10VSO 18 (shaft P, flange A,)

Order code **K51***



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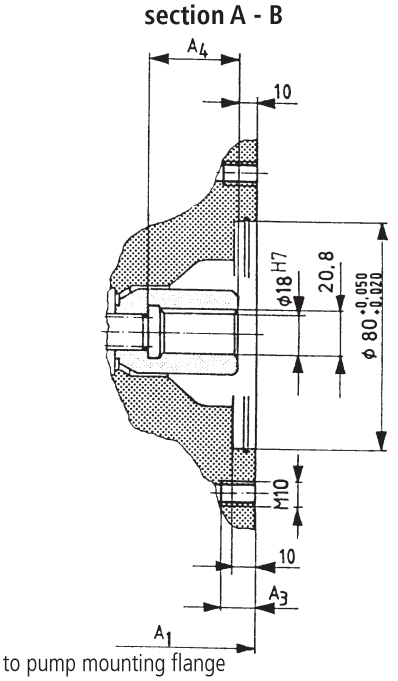
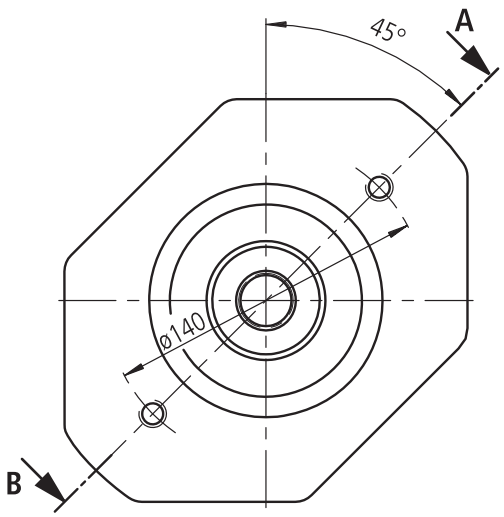


Size main pump	A_1	A_3	A_4
18	182	14,5	33
28	204	16	37
45	229	16	43
71	267	20	51
100	338	20	55
140	350	20	67

For operation with HF-fluids please consider RE-data sheet of built-on pump.

*not for new applications, only permitted with reduced through drive torques,

Flange ISO 100, 2-hole for built-on A10VSO 28 (splined shaft S or R);
Order code **KB3**



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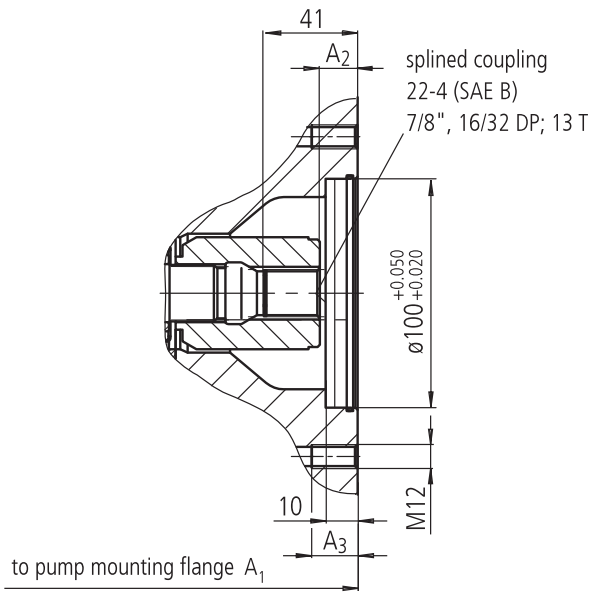
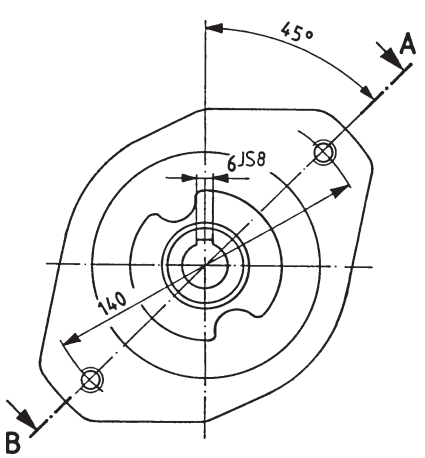


Size main pump	A_1	A_2	A_3
28	204	19,2	14
71	267	16,5	18
100	338	17,6	18
140	350	18,2	24

Flange ISO 100, 2-hole for built-on A10VSO 28 (keyed shaft P)
Order code **K25***



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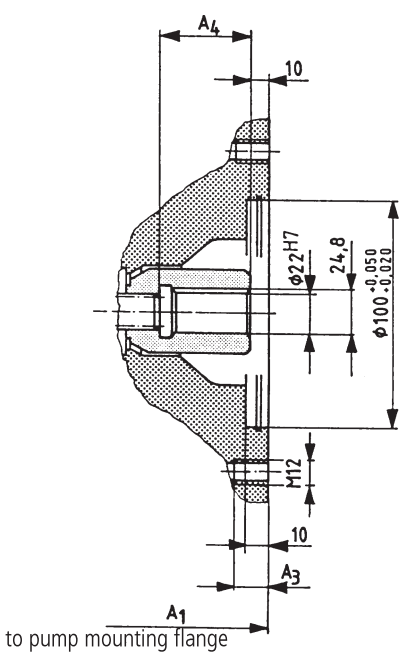
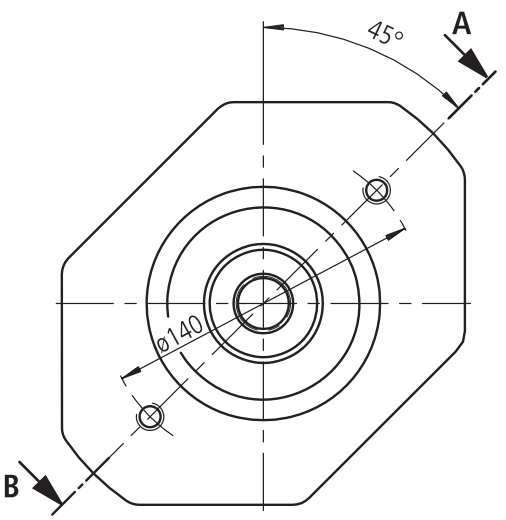


Size main pump	A_1	A_3	A_4
28	204	14	37
45	229	14	43
71	267	23	51
100	338	20	55
140	350	24	62

*not for new applications, only permitted with reduced through drive torques,

Flange ISO 100, 2-hole for built-on A10VSO 45 (splined S or R);
order code **KB4**



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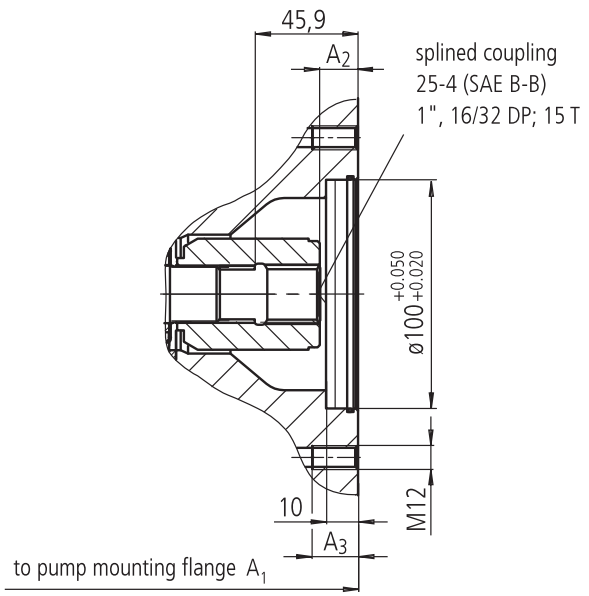
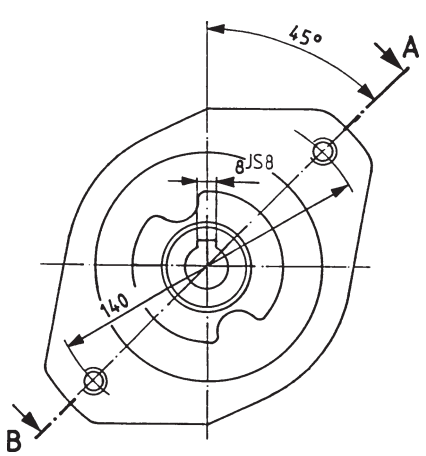


Size main pump	A_1	A_2	A_3
45	229	17,2	14
71	267	17,2	18
100	338	18,2	20
140	350	18,2	24

Flange ISO 100, 2-hole for built-on A10VSO 45 (keyed shaft P)
order code **K26***



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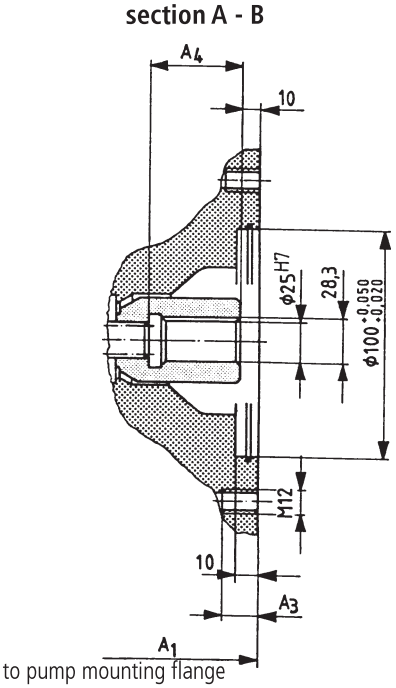
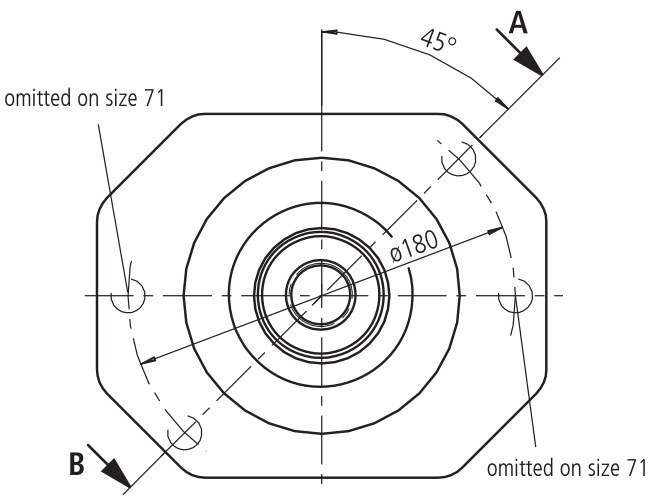


Size main pump	A_1	A_3	A_4
45	229	14	43
71	267	23	51
100	338	20	56
140	350	24	67

*not for new applications, only permitted with reduced through drive torques,

Flange ISO 125, 2-hole for built-on A10VSO 71 (splined shaft S or R);
Order code **KB5**



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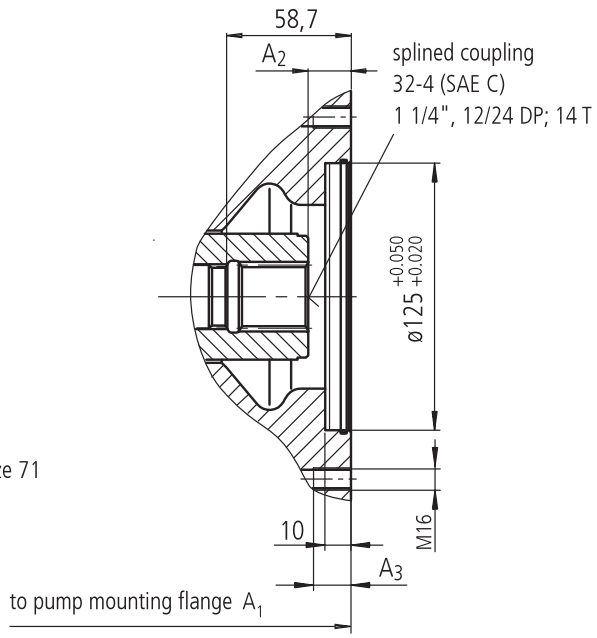
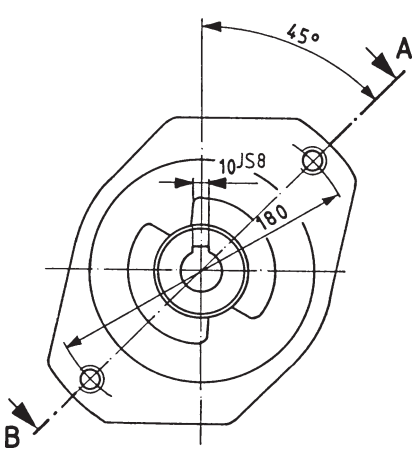


Size main pump	A_1	A_2	A_3
71	267	20	18,5
100	338	20	25
140	350	21	32

Flange ISO 100, 2-hole for built-on A10VSO 71 (keyed shaft P)
order code **K27***



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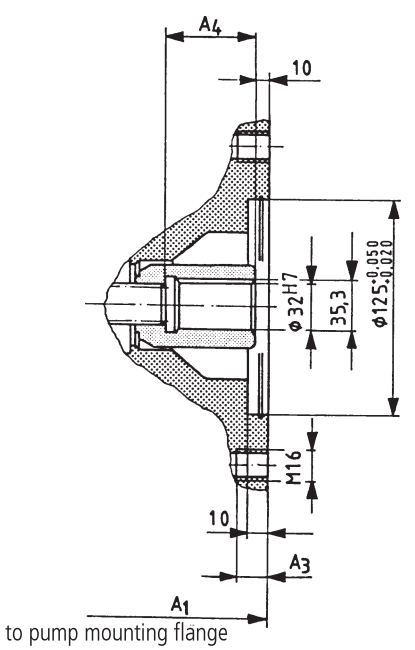
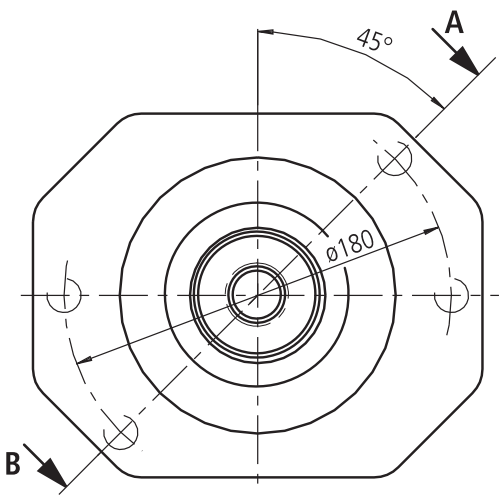


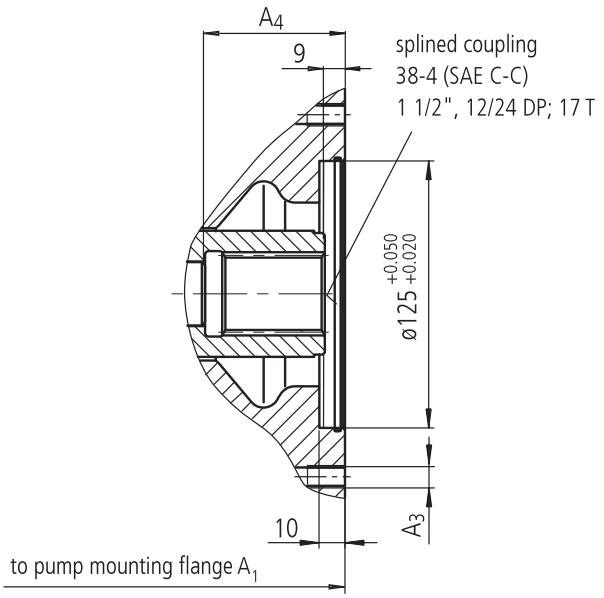
Size main pump	A_1	A_3	A_4
71	267	18	51
100	338	20	54
140	350	24	63

*not for new applications, only permitted with reduced through drive torques,

Flange ISO 125, 2-hole for built-on A10VSO 100 (splined shaft S);
Order code **KB6**

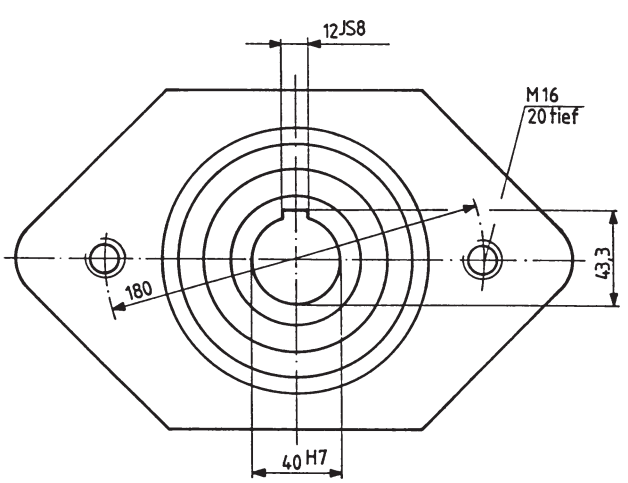


section A - B

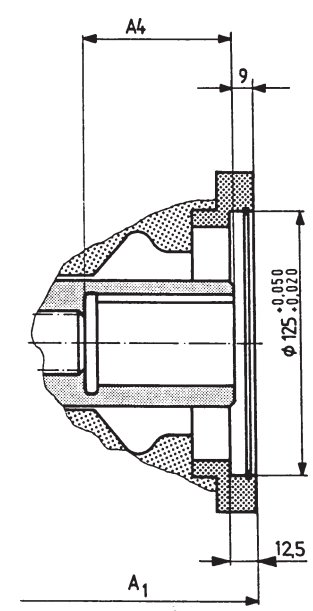


Size main pump	A_1	A_3	A_4
100	338	M16; 25 deep	65
140	350	M16; 32 deep	77,3

Flange ISO 125, 2-hole for built-on A10VSO 100 (keyed shaft P)
Order code **K37***



section A - B

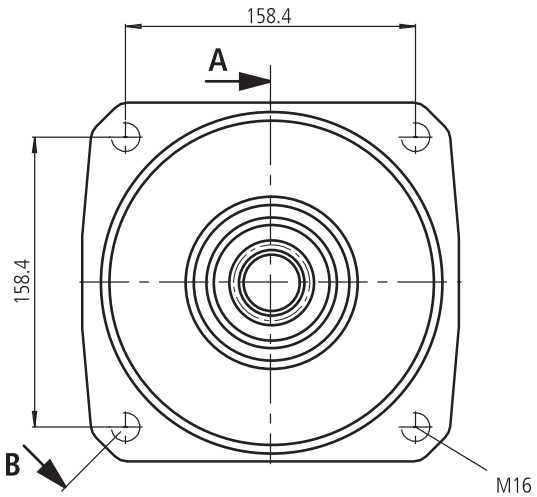


Size main pump	A_1	A_4
100	356	71
140	368	80

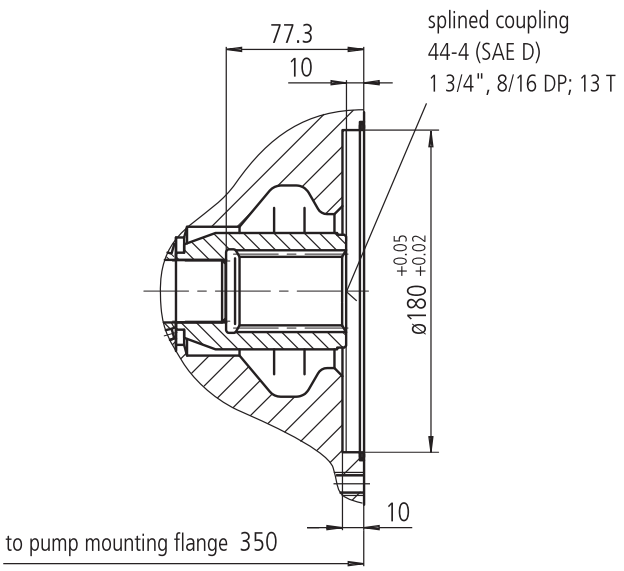
*not for new applications, only permitted with reduced through drive torques,

Flange ISO 180, 4-hole for built-on A10VSO 140 (splined shaft S);
Order code **KB7**

main pump NG 140

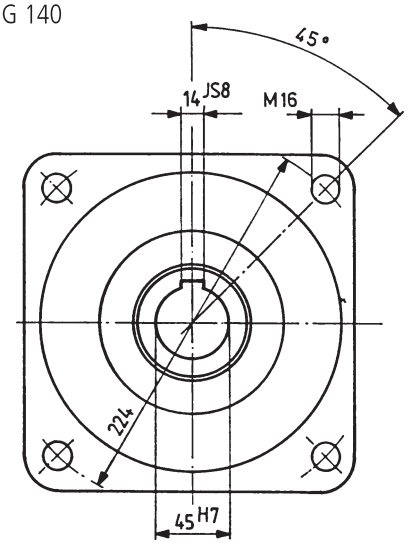


section A - B

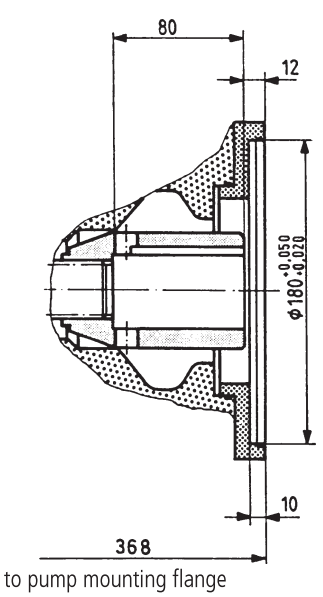


Flange ISO 180, 4-hole for built-on A10VSO 140 (keyed shaft P)
order code **K59***

main pump NG 140



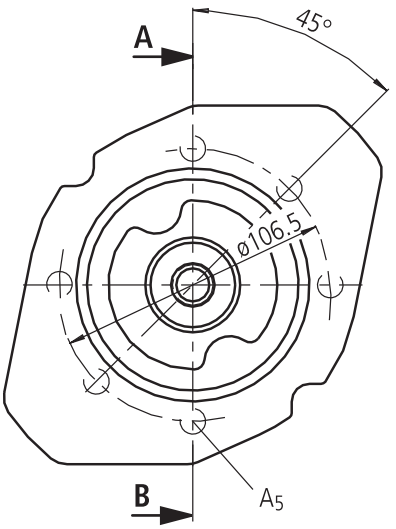
section A - B

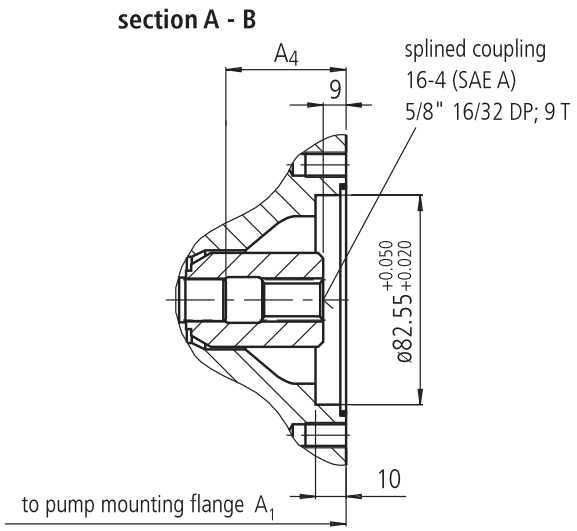


*not for new applications, only permitted with reduced through drive torques,

Flange SAE 82-2 (SAE A, 2-hole) for built-on external gear pump 1 PF2G2 or internal gear pump PGF2 (shaft J, flange U2,)

Order code **K01**



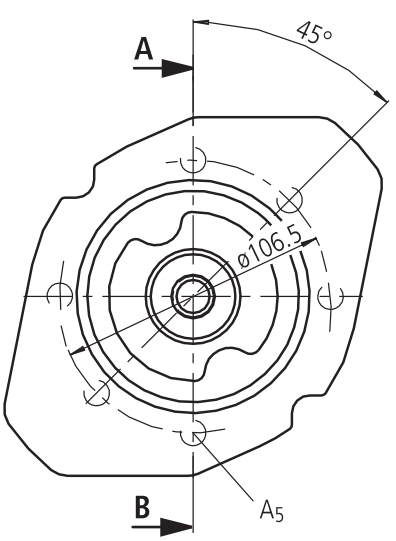


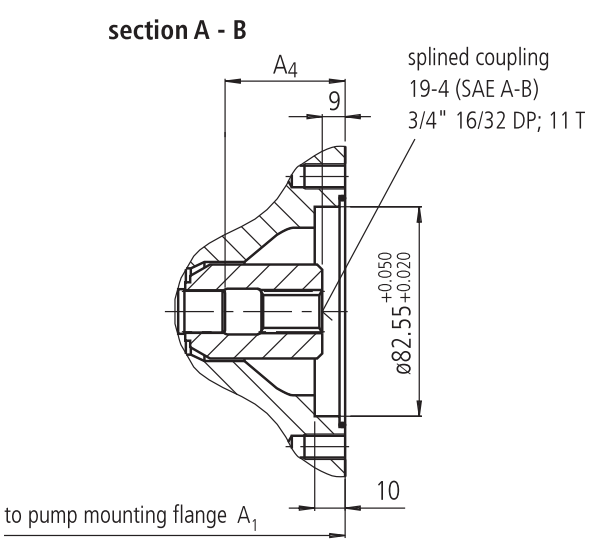
Size main pump	A_1	A_4	A_5
28	204	47	M10; 16 deep
45	229	53	M10; 16 deep
71	267	61	M10; 20 deep
100	338	65	M10; 20 deep
140	350	77	M10; 20 deep

For operation with HF-fluids please consider RE-data sheet of built-on pump.

Flange SAE 82-2 (SAE A, 2-hole) for built-on A10VSO 10 (shaft S, flange C,) or A10VSO 18 (shaft S, flange C,)

Order code **K52**

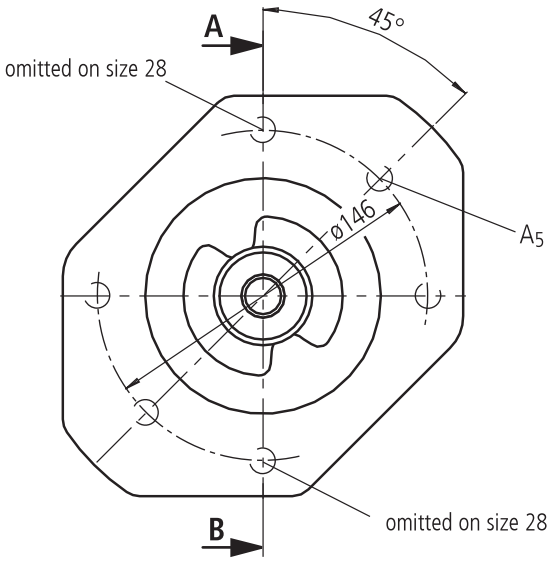




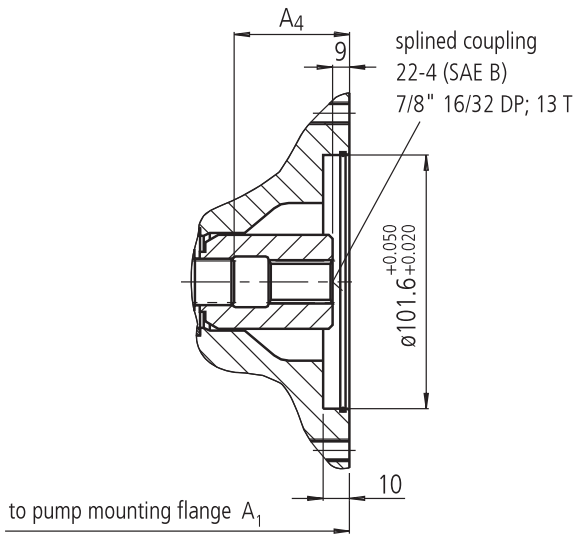
Size main pump	A_1	A_4	A_5
28	206	47,3	M10; 16 deep
45	229	53,4	M10; 16 deep
71	267	61,3	M10; 20 deep
100	338	65	M10; 20 deep
140	350	77	M10; 20 deep

For operation with HF-fluids please consider RE-data sheet of built-on pump.

Flange SAE 101-2 (SAE B, 2-hole) for built-on external gear pump 1PF2G3
Order code **K02**



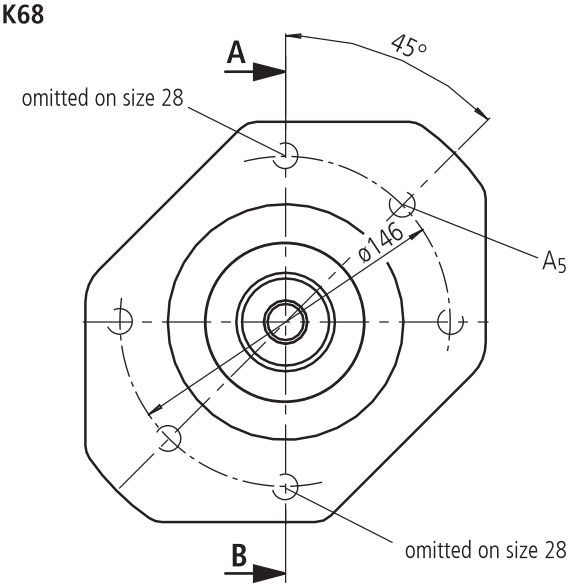
section A - B



Size main pump	A_1	A_4	A_5
28	204	47	M12; 15 deep
45	229	53	M12; 18 deep
71	267	61	M12; 20 deep
100	338	65	M12; 20 deep
140	350	77	M12; 20 deep

For operation with HF-fluids please consider RE-data sheet of built-on pump.

Flange SAE 101-2 (SAE B, 2-hole) for built-on A10VO 28 (shaft S,)or internal gear pump PGF3 (shaft J, flange U2,)
Order code **K68**



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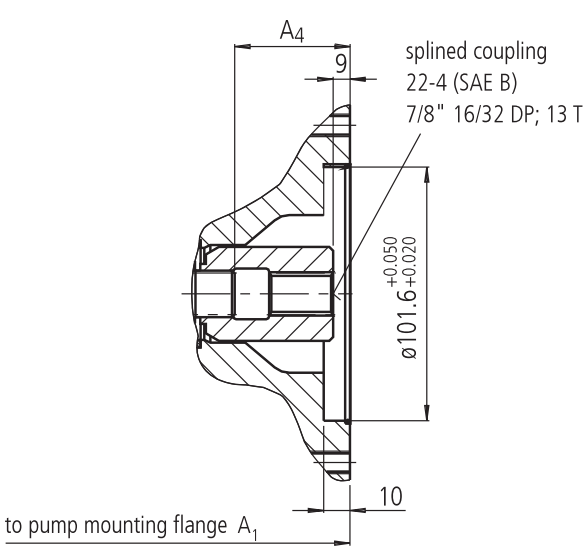
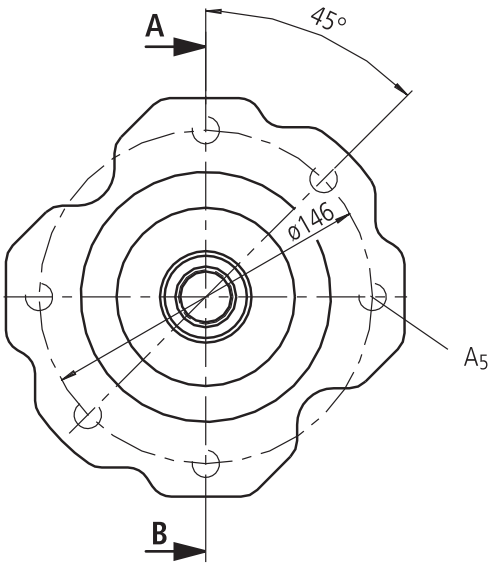


Size main pump	A_1	A_4	A_5
28	204	47	M12; 15 deep
45	229	53	M12; 18 deep
71	267	61	M12; 20 deep
100	338	65	M12; 20 deep
140	350	80,8	M12; 20 deep

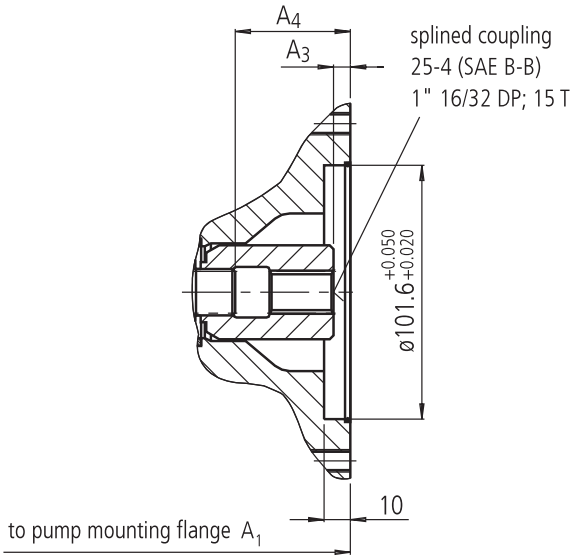
For operation with HF-fluids please consider RE-data sheet of built-on pump.

Flange SAE 101-2 (SAE B, 2-hole) for built-on A10VO 45 (shaft S,) or internal gear pump PGH4 (shaft R, flange U2,)

Order code **K04**



section A - B

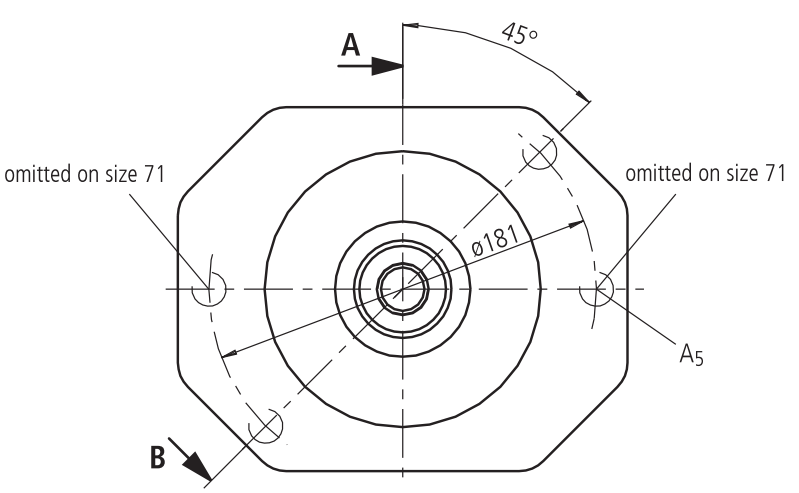


Size main pump	A_1	A_3	A_4	A_5
28	204	9	47	M12; 15 deep
45	229	9	53,4	M12; 18 deep
71	267	9	61,3	M12; 20 deep
100	338	10	65	M12; 20 deep
140	350	8	77,3	M12; 20 deep

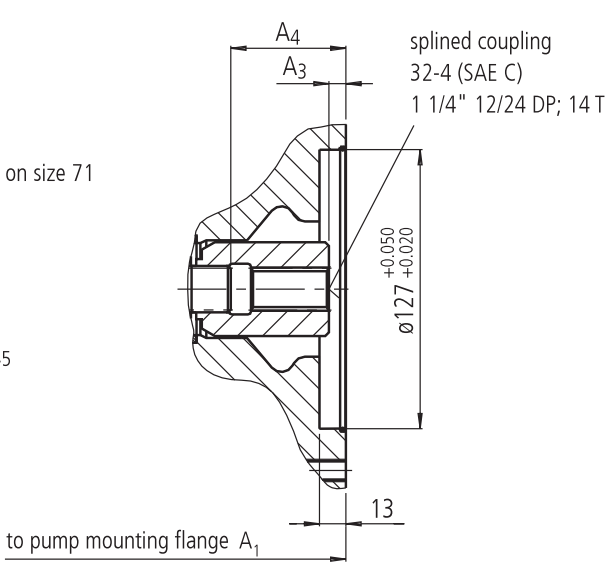
For operation with HF-fluids please consider RE-data sheet of built-on pump.

Flange SAE 127-2 (SAE C) for built-on A10VO 71 (shaft S,)

Order code **K07**



section A - B

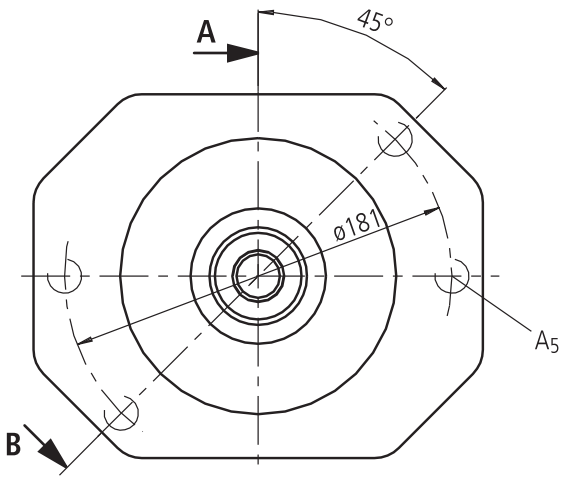


Size main pump	A_1	A_3	A_4	A_5
71	267	10	61,3	M16; 18 deep
100	339	9	65	M16; 20 deep

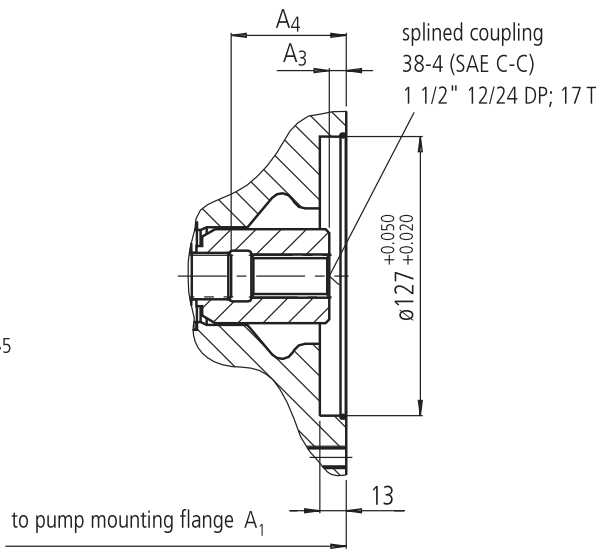
For operation with HF-fluids please consider RE-data sheet of built-on pump.

Flange SAE 127-2 (SAE C) for built-on A10VO 100 (shaft S,) or internal gear pump PGH5 (shaft R, flange U2,)

Order code **K24**



section A - B



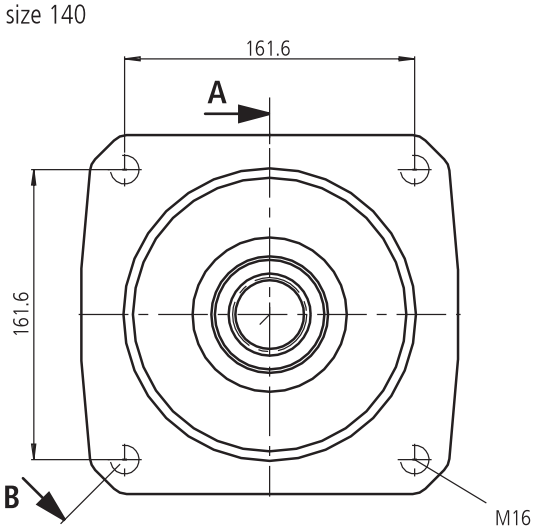
Size main pump	A_1	A_3	A_4	A_5
100	338	8	65	M16; 20 deep, right through
140	350	9	77,3	M16; 32 deep

For operation with HF-fluids please consider RE-data sheet of built-on pump.

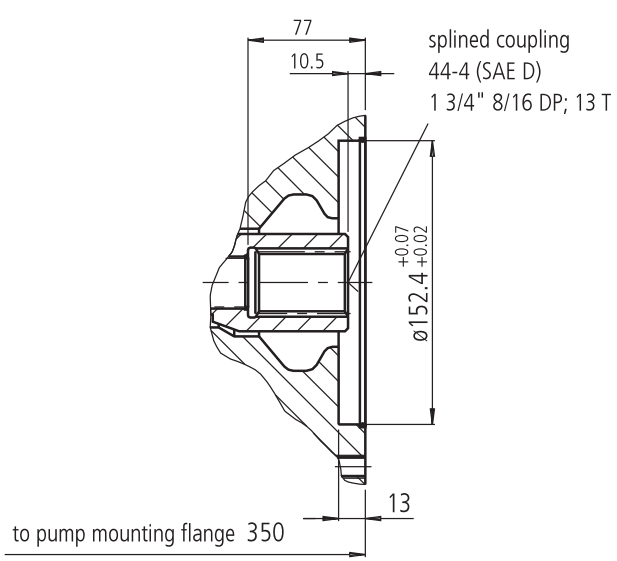
Flange SAE 152-4 (SAE D) for built-on A10VO 140 (shaft S,)

Order code **K17**

main pump size 140



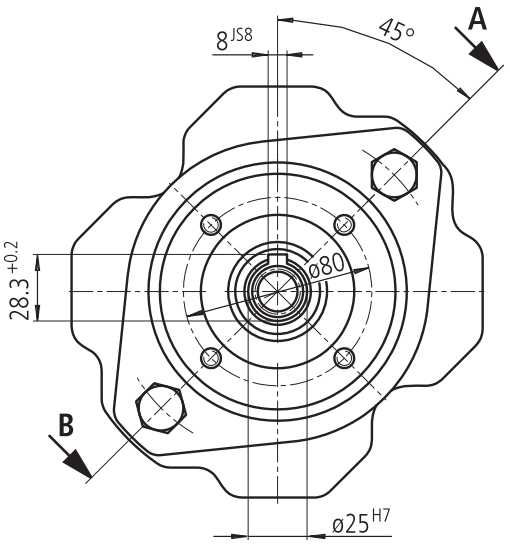
Schnitt A - B



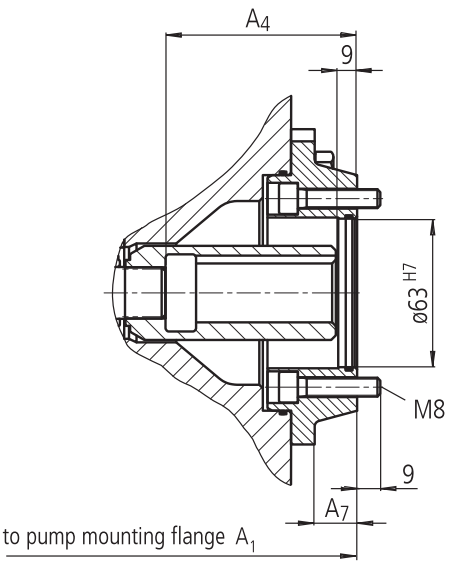
For operation with HF-fluids please consider RE-data sheet of built-on pump.

Unit Dimensions Through Drive K57

Flange metric, 4-hole for built-on radial piston pump R4
Order code **K57**



section A - B



Size main pump	A_1	A_4	A_7
28	233	47	8
45	258	71,5	8
71	283	68	8
100	354	70,5	8
140	366	84	8

For operation with HF-fluids please consider RE-data sheet of built-on pump.