

Instruction

APP pumps

APP 21 and APP 38 with Ceramics
Recommended service intervals





Instruction Recommended service intervals for APP 21 and APP 38 pumps with Ceramics

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- 1. General information** This guideline provides information on the recommended service intervals. The recommendation is based upon good engineering practice and on experience gained from operation even under extreme conditions. The recommendation is for guidance only.
- 2. Design/features** Danfoss APP pumps are designed for long operation and low maintenance and life cycle costs. After one year of operation it is recommended to inspect the pump and replace worn parts, if any. If the Danfoss recommendations concerning system-design (see our data sheet) are not followed, the service life of the APP pumps might be affected. The recommended service intervals on the different parts in the APP pumps appear from the table below:
- Provided that the pump has been running according to the Danfoss specifications, Danfoss guarantees one year service-free operation, however, max. 18 months from date of production.

Pos.	Qty.	Description	Material	Service interval APP 30/1200 rpm	Service interval APP 38/1500 rpm
1	1	Housing, main bearing	Super Duplex or Duplex, PEEK	No need for service	No need for service
11, 125, 211*	1	Mounting flange/ end flange	Wetted part: Duplex Dry part: AISI 316L	No wear part	No wear part
121, 181*	1	Port flange	Super Duplex or Duplex	No wear part	No wear part
31	1	Swash plate	Super Duplex	80,000 hours	80,000 hours
66	5/7/9	Piston	Super Duplex and PEEK	32,000 hrs.	24,000 hrs.
92	1	Valve plate	Super Duplex	48,000 hours	48,000 hours
91	1	Port plate	Super Duplex, PEEK	48,000 hours	48,000 hours
61	1	Cylinder barrel	Super Duplex	48,000 hours	48,000 hours
65	1	Retainer plate	Super Duplex	48,000 hours	48,000 hours
64	1	Retainer ball	Super Duplex	48,000 hours	48,000 hours
71	1	Retainer guide	Super Duplex	48,000 hours	48,000 hours
62	1/4	Spring	Super Duplex or Duplex	48,000 hours	48,000 hours
63	1	Spring guide	Duplex or PP	48,000 hours	48,000 hours
142	1	Stop for shaft seal	PP	No wear part	No wear part
124, 215*	1	Shaft seal	Hastelloy and NBR	32,000 hours	32,000 hours
125	1	Cover/flange for shaft seal	Super Duplex	No wear part	No wear part
93	5/7/9	Back-up ring	PTFE	32,000 hours	32,000 hours
*		O-ring (overall)	NBR	32,000 hours	32,000 hours
*		Screw (overall)	AISI 316	Recommended inspection of tightening torque on a yearly basis. Replace after 32,000 hours.	Recommended inspection of tightening torque on a yearly basis. Replace after 32,000 hours.
*		Pin (overall)	AISI 316, Duplex or PEEK	No wear part	No wear part
152	1	Valve cone (flushing valve)	Duplex or PEEK	64,000 hours	64,000 hours
3, 129*	2	Bleeding screw	Duplex	No wear part	No wear part
67	1	Key	AISI 316	48,000 hours	48,000 hours

* depends on pump size

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