

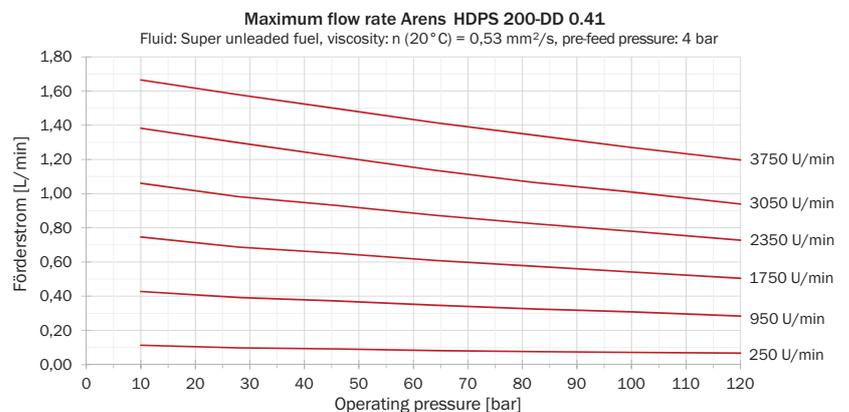
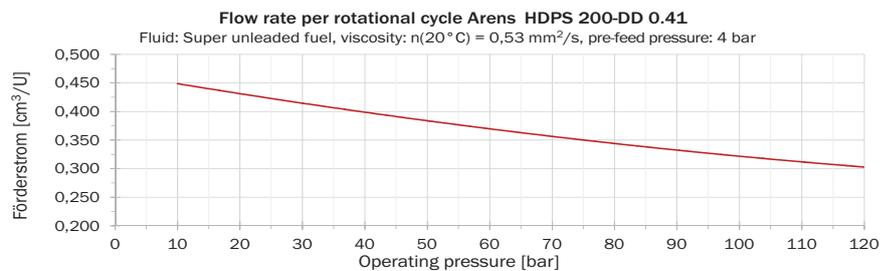


High-pressure pump HDPS 200-DD

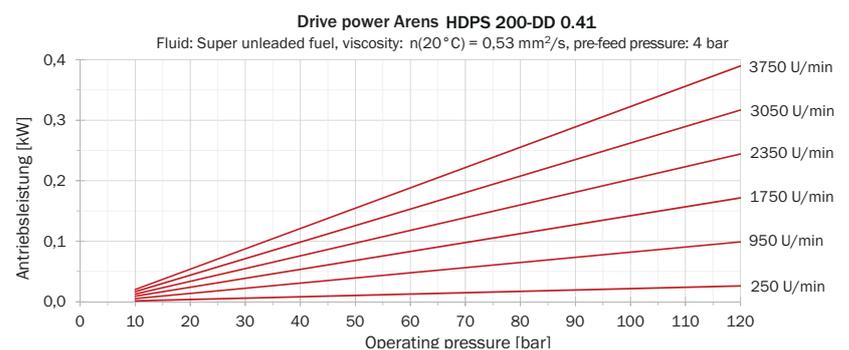
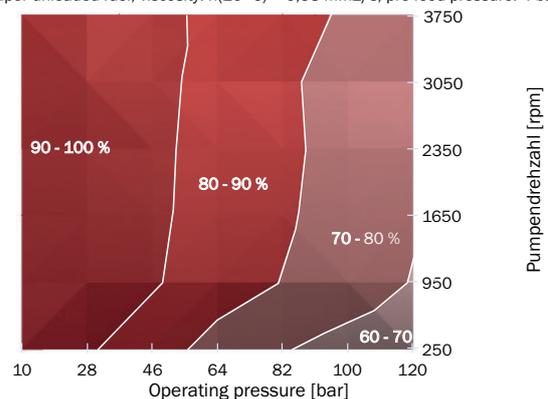
The Arens HDPS 200-DD is a very efficient and compact high-pressure pump, which is particularly suited to pressurisation when feeding low-viscosity fluids. The basic version of the pump is designed for a continuous operating pressure of 200 bar. The structural segregation of the high-pressure circuit and the lubricated shaft drive facilitates the flow of non-lubricating fluids. During this process, no compromises may be made with respect to loading periods even at high rotational speeds. Additionally, the HDPS 200-DD can be used with an optional plug-in mechanism so that multiple pumps can be coupled to multiply the flow rate.

Application

Areas of application range from deployment in small combustion engines with high-pressure direct injection (see Arens RVI boxer engine) to atomising systems in the food industry. Upon request, we shall be pleased to examine the possibility of undertaking application-specific adaptation in relation to flow output or the chemical stability of the materials used.



Volumetric efficiency Arens HDPS 200-DD 0.41
Fluid: Super unleaded fuel, viscosity: $\eta(20^\circ\text{C}) = 0,53 \text{ mm}^2/\text{s}$, pre-feed pressure: 4 bar



Technical Data



Arens HDPS 200-DD

Please enquire in the instance of deployment outside the values specified.

Rotational speed range	rpm	250 up to no lower than 3.750	
Operating pressure	Inlet	bar 2 to 4 -absolut	
	Outlet	bar 200 bar absolut	
Number of pistons		2	
Geometric displacement volume	Standard	cm ³ /cycle 0.41	
	Further variants	0.19	HDPS 200-DD 0.19
		0.30	HDPS 200-DD 0.30
		0.59	HDPS 200-DD 0.59
Volumetric efficiency, standard	%	See characteristic	
Maximum flow rate, standard	L/min	See characteristic	
Requisite drive performance, standard	kW	See characteristic	
Flow medium range of viscosity	mm ² /s	0.5 bis 65	
Direction of rotation (evidenced at the end of the shaft)		Rotating to the right and the left does not impact the direction of flow	
Installation position		Discretionary / no specification	
Type of mounting		Face mounting possible on the front and rear surface	
Pipe connections		2 hexagon socket head cap screw units M6 x 40 mm	
Operating temperature	°C	-30 to +120 (referred to used pump parts, also dependent on fluid)	
Storage temperature	°C	-30 to +70	
Admissible flow fluid temperature:	°C	+80, temporarily up to +130	
Weight	kg	1.3	
Version options	Identifier	DV	Version with casing-integrated pressure relief valve and return flow connector (please specify relief pressure)
		KP	Version with plug-in mechanism enabling the coupling of multiple high-pressure pumps

Dimensions

