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Compact Medium-pressure Vane Pump

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Features

- The straight vane type structure realizes compact and lightweight design which brings greater cost effectiveness.
These vane pumps with a maximum pressure of 17.2 MPa are suited to various applications in industrial machinery.

Nomenclature

※	-	DE	※	※	-	※	-	※	-	※	-	10
1		2	3		4		5		6		7	
1 Applicable fluid code							4 Pump capacity (cm³/rev)				5 Direction of rotation, when viewed from the shaft end	
No designation: Wear-resistant hydraulic fluid							DE10		DE20		R: Clockwise (rightward)	
F: Water-glycol hydraulic fluid							1: 3.3		6: 19.5		L: Counterclockwise (leftward)	
F: Phosphate ester hydraulic fluid							2: 6.6		7: 22.8			
							3: 9.8		8: 26.5			
							4: 13.1		9: 29.7			
							5: 16.4		11: 36.4			
							6: 19.5		12: 39			
							7: 22.8		13: 42.4			
2 Model No.											6 Installation types	
DE: Compact medium-pressure vane pump											No designation: Without foot	
											B: With foot	
3 Pump capacity code											7 Design No.	
10: DE10 (3.3 to 22.8 cm ³ /rev)											(The design No. is subject to change)	
20: DE20 (19.5 to 42.4 cm ³ /rev)												

Specifications and masses

Model No.	Displacement volume cm³/rev	Maximum pressure* MPa	Minimum pressure MPa	Minimum rotational speed min ⁻¹	Maximum rotational speed* min ⁻¹	Mass kg					
						Without foot support	With foot support				
DE10-1	3.3	17.2	0.7	600	1800	5	7				
DE10-2	6.6										
DE10-3	9.8										
DE10-4	13.1										
DE10-5	16.4										
DE10-6	19.5	15.2									
DE10-7	22.8	13.8									
DE20-6	19.5	17.2									
DE20-7	22.8										
DE20-8	26.5										
DE20-9	29.7										
DE20-11	36.4										
DE20-12	39	15.2									
DE20-13	42.4										

* Values with wear-resistant hydraulic fluid

- Foot supports are not provided with the pump. Order them separately as required by referring to Page S-2.
- Refer to Pages D-23 and 24 for the conditions of use for models compatible with flame-resistant hydraulic oil and for other notes on handling.
- Refer to Page S-5 for the machining dimensions of coupling holes.

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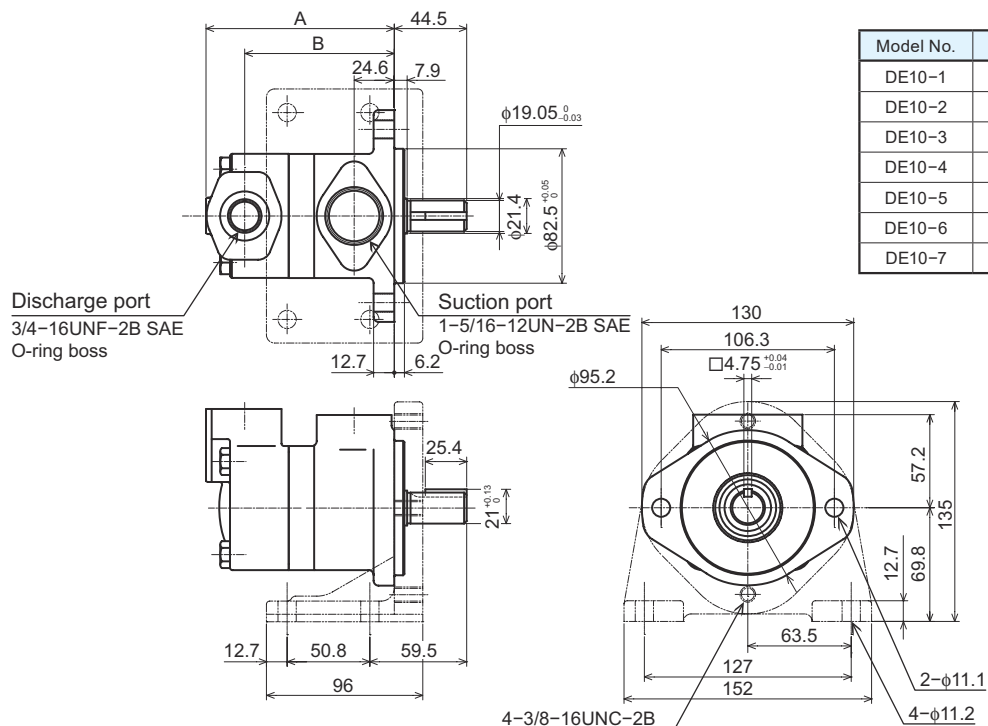
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External dimension diagram

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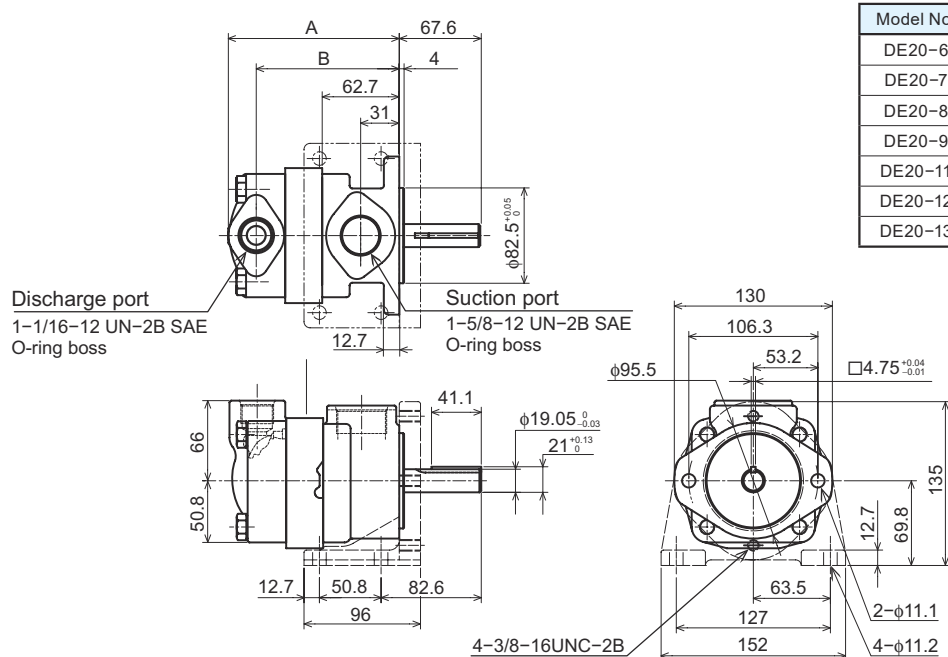
DE10



Model No.	Dimension A	Dimension B
DE10-1	115.6	91.9
DE10-2	115.6	91.9
DE10-3	115.6	91.9
DE10-4	121.9	98.3
DE10-5	121.9	98.3
DE10-6	127.0	103.4
DE10-7	127.0	103.4

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VANE PUMPS

DE20



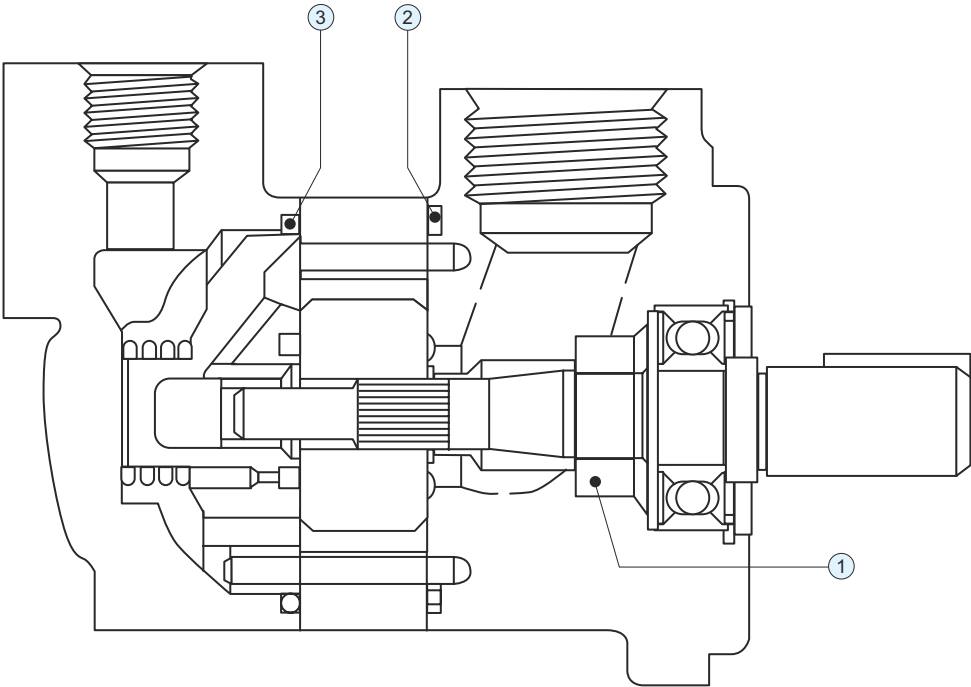
Model No.	Dimension A	Dimension B
DE20-6	125.2	102.1
DE20-7	131.6	108.5
DE20-8	131.6	108.5
DE20-9	131.6	108.5
DE20-11	136.6	113.5
DE20-12	140.2	117.1
DE20-13	140.2	117.1

○ The foot mounting dimensions indicated in this drawing are those when foot model FTB-422582 is mounted.

Sectional structural diagram

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DE10, 20



DE10 Seal table

Part No.	Name	Quantity	Specifications	Material
1	Oil seal	1	Special part	NBR
2	O-ring	1	AS568-143	NBR
3	O-ring	1	AS568-144	NBR

DE20 Seal table

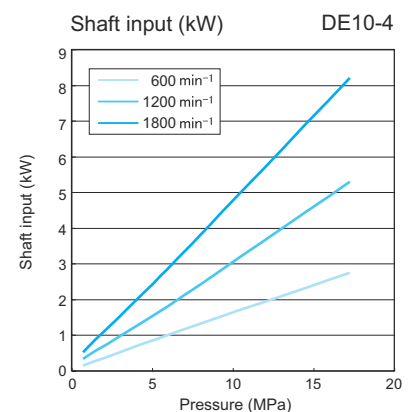
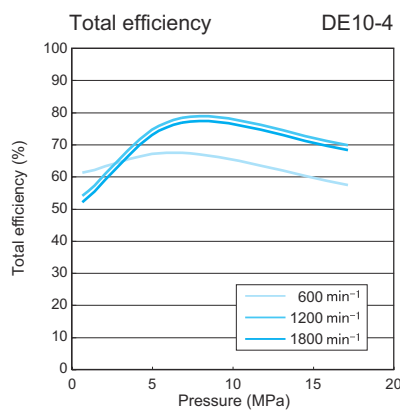
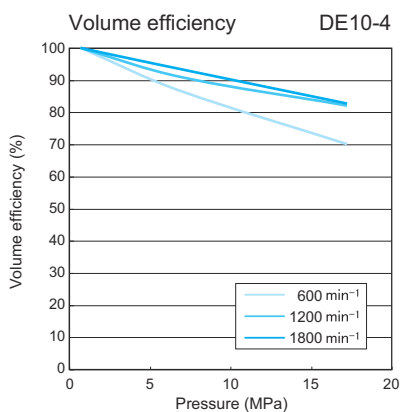
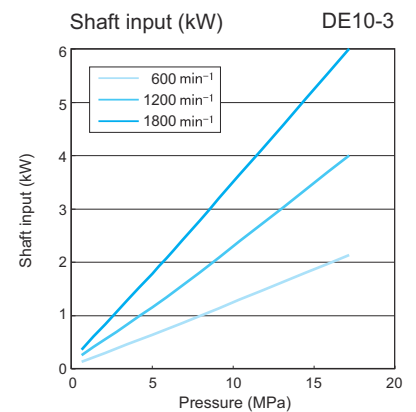
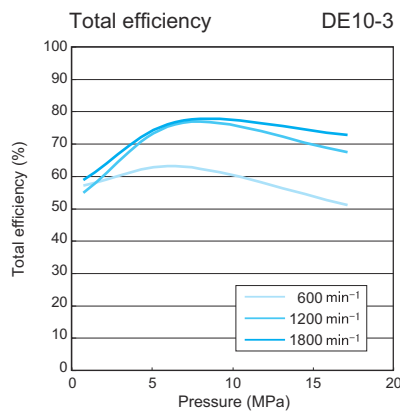
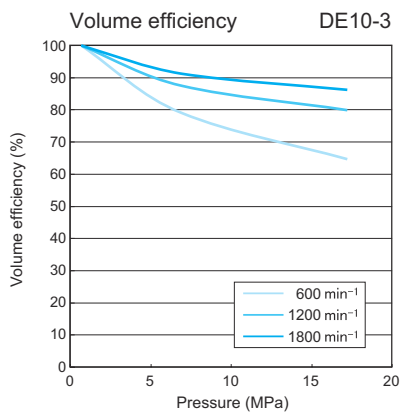
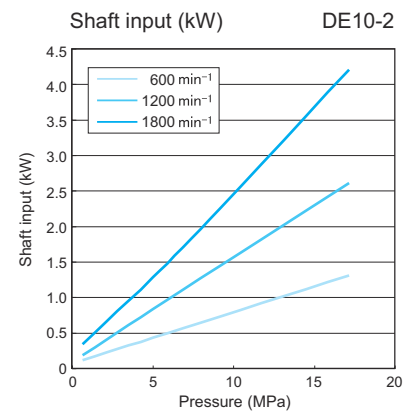
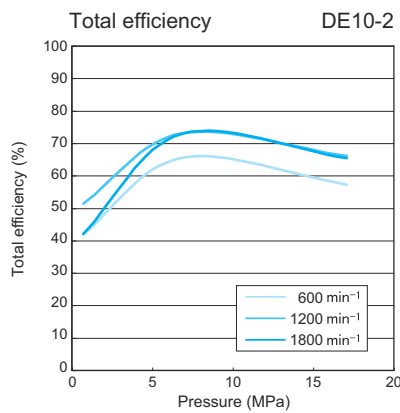
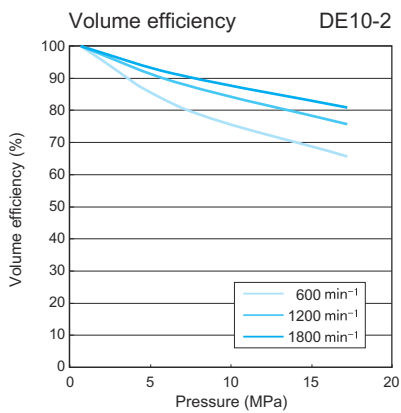
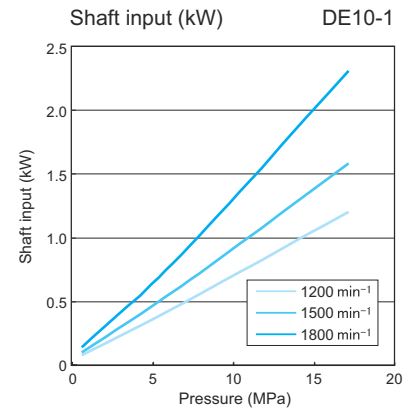
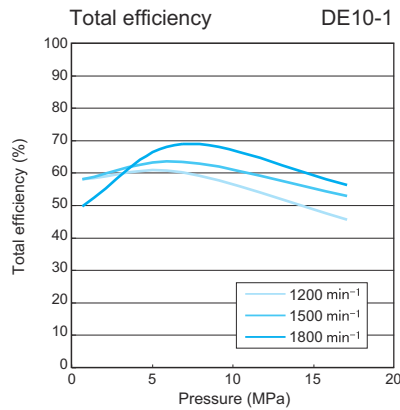
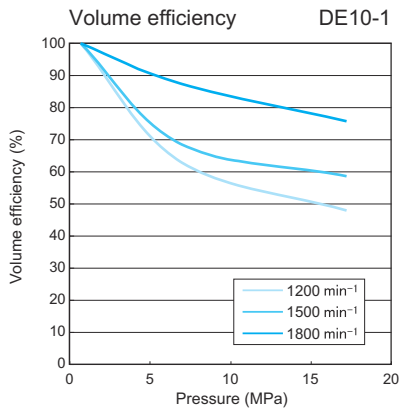
Part No.	Name	Quantity	Specifications	Material
1	Oil seal	1	Special part	NBR
2	O-ring	1	AS568-236	NBR
3	O-ring	1	Special part	NBR

General performance

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Fluid used: viscosity of 32 mm²/s

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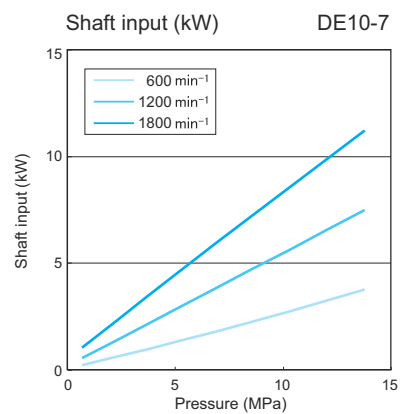
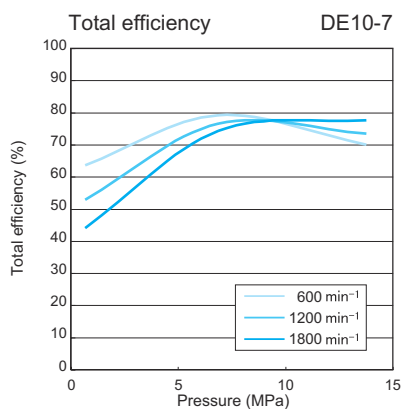
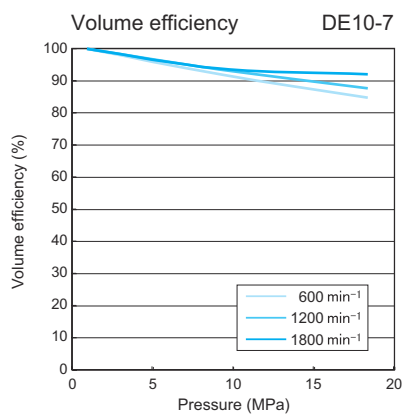
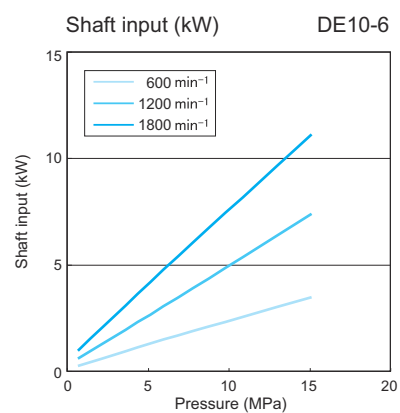
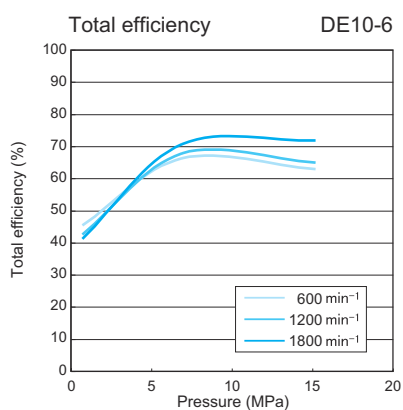
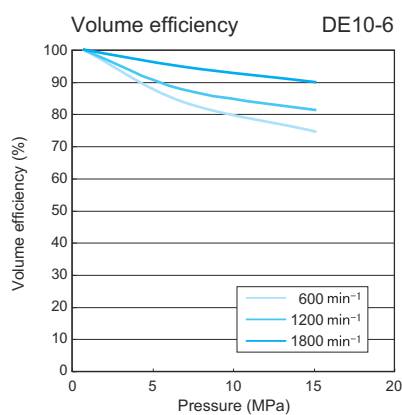
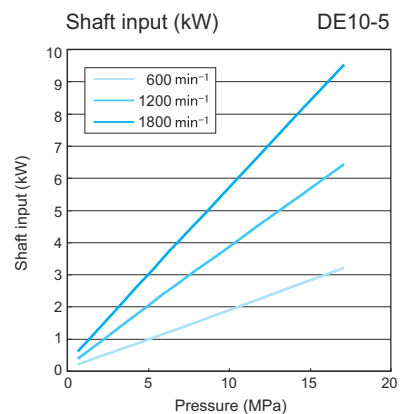
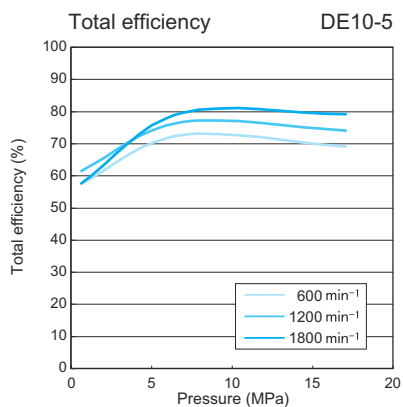
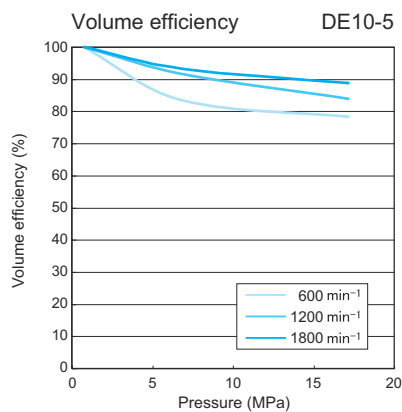
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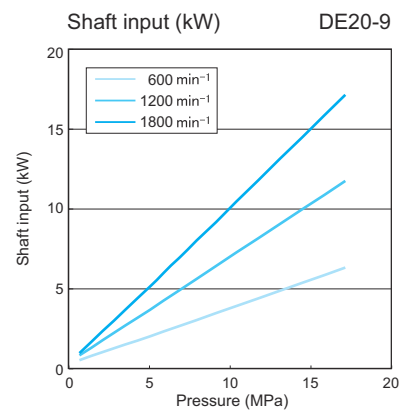
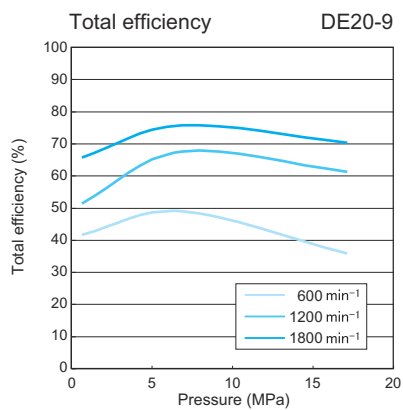
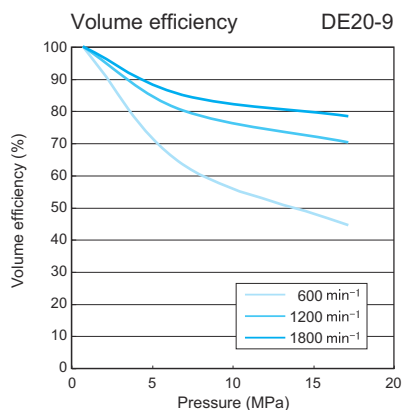
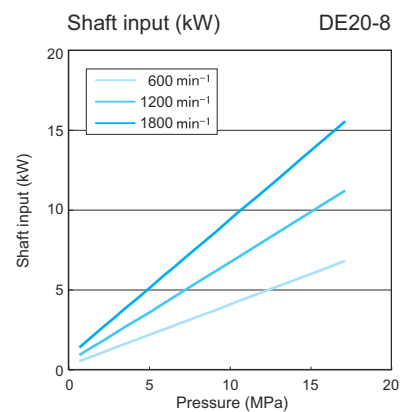
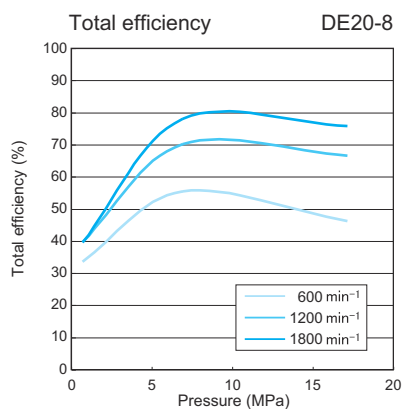
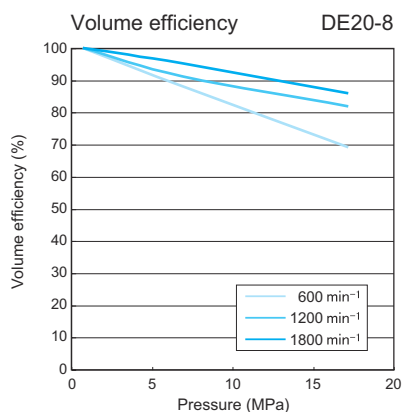
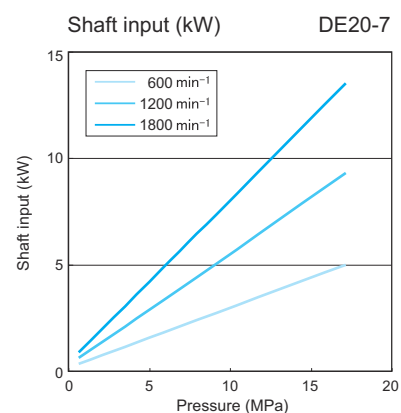
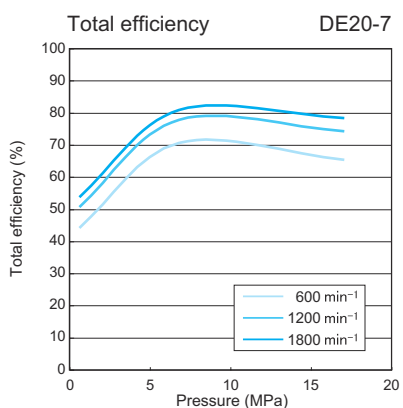
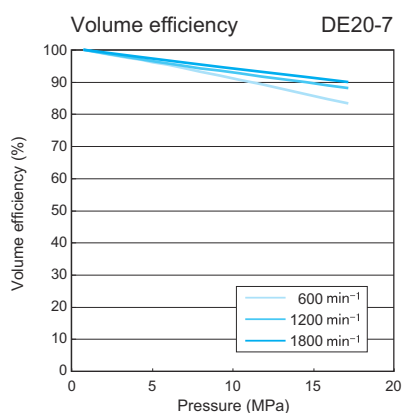
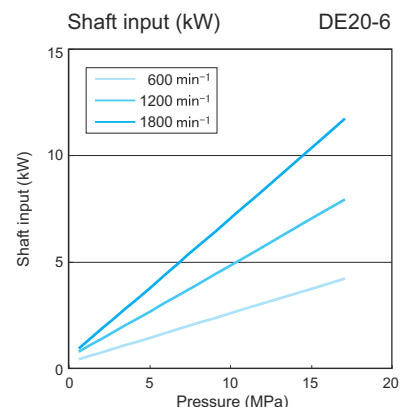
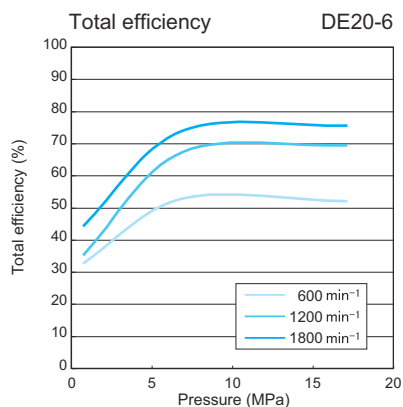
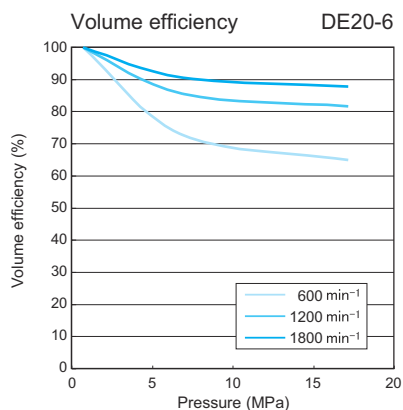
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