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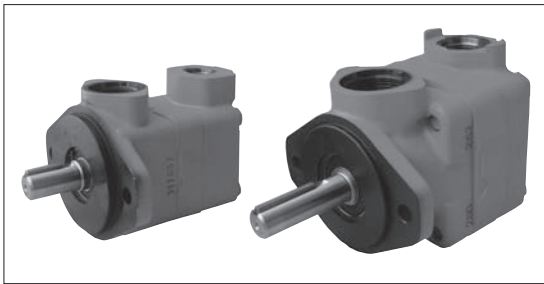
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Compact Medium-pressure Vane Pump



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

No designation: Wear-resistant hydraulic fluid
Water-glycol hydraulic fluid
F: Phosphate ester hydraulic fluid

2 Model No.

DE: Compact medium-pressure vane pump

3 Pump capacity code

10: DE10 (3.3 to 22.8 cm³/rev)
20: DE20 (19.5 to 42.4 cm³/rev)

4 Pump capacity (cm³/rev)

	DE10	DE20
1:	3.3	6: 19.5
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

5 Direction of rotation, when viewed from the shaft end

R: Clockwise (rightward)
L: Counterclockwise (leftward)

6 Installation types

No designation: Without foot support
B: Foot support mount

7 Design No.

(The design No. is subject to change)

Specifications and masses

Model No.	Displacement volume cm ³ /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-31 and 32 for the conditions of use for models compatible with flame-resistant hydraulic oil and for other notes on handling.
- Refer to Page S-3 for the machining dimensions of coupling holes.

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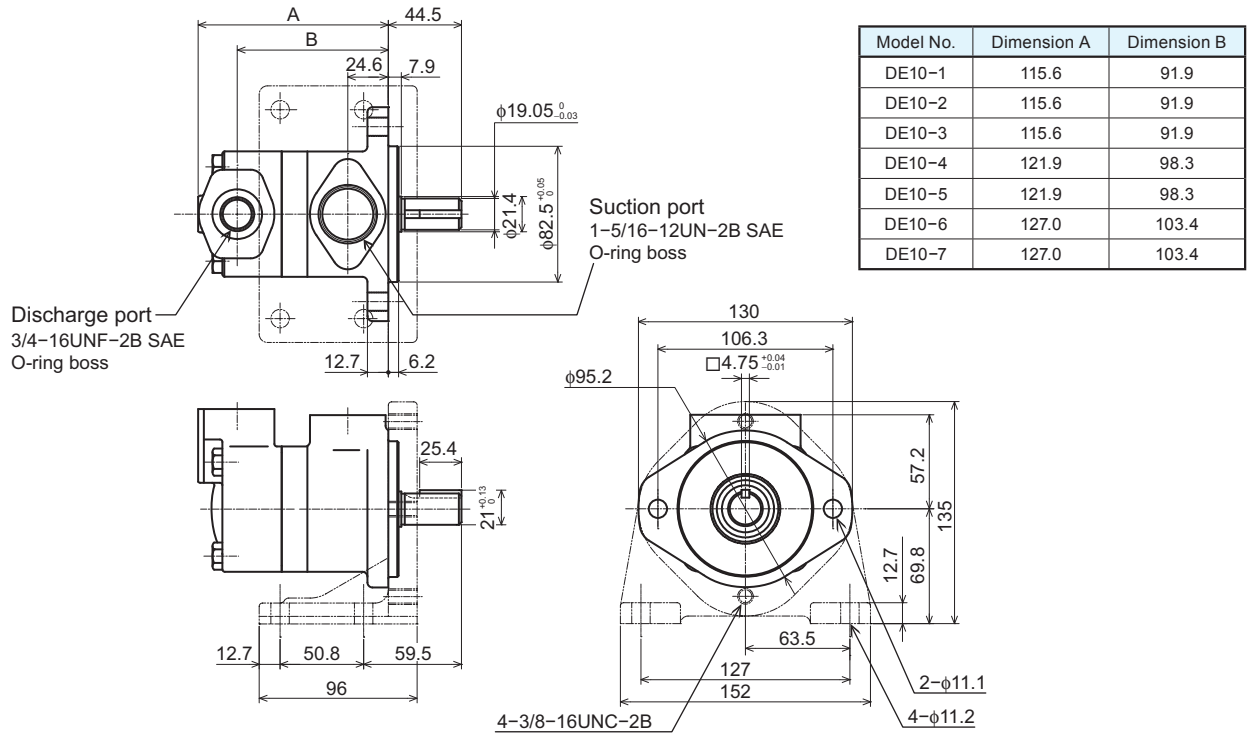
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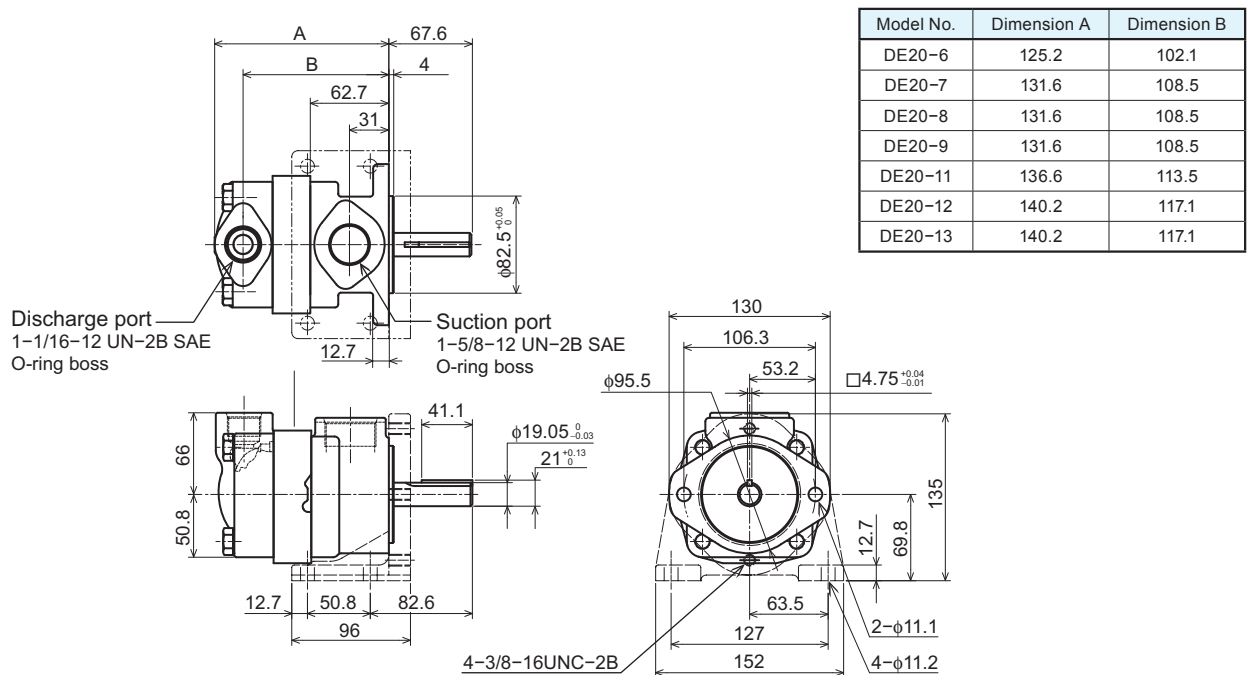
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External dimension diagram

DE10



DE20



○ The foot support mounting dimensions indicated in this diagram are the dimensions when the product is shipped with the foot support mounted. Note that they differ from the foot support dimensions given on Page S-2.

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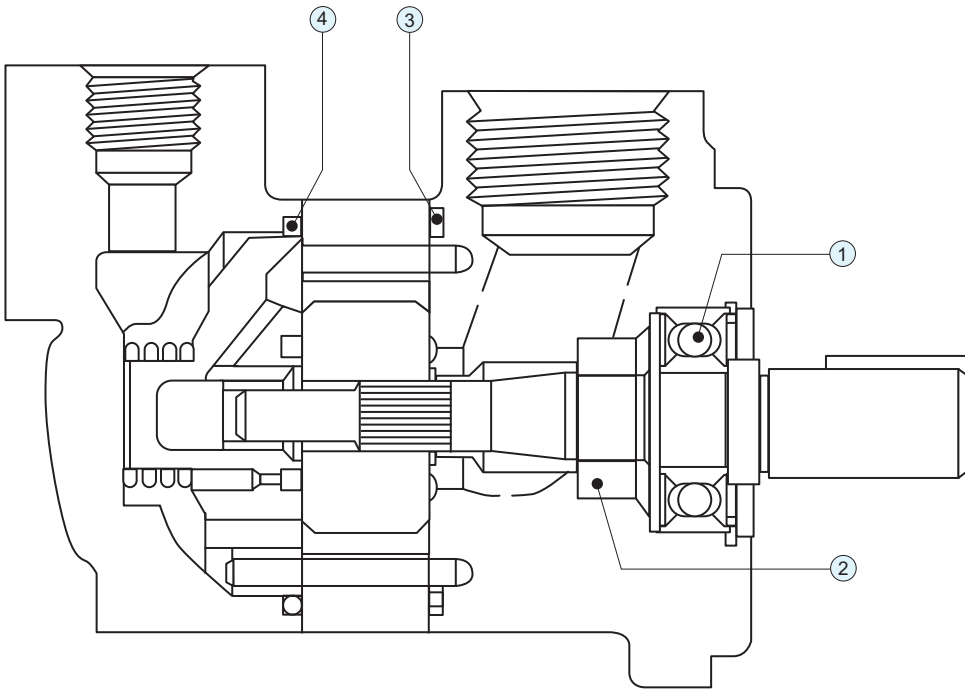
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Sectional structural diagram

DE10, 20



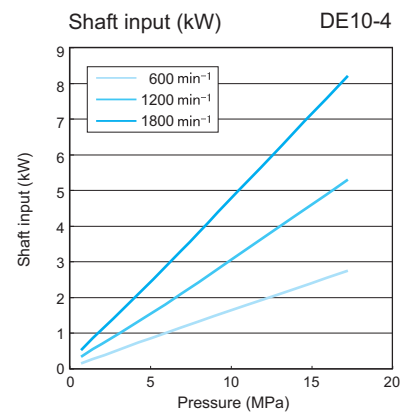
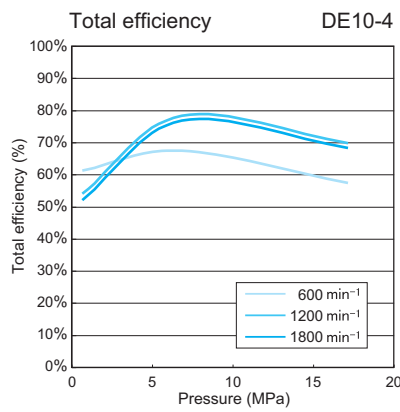
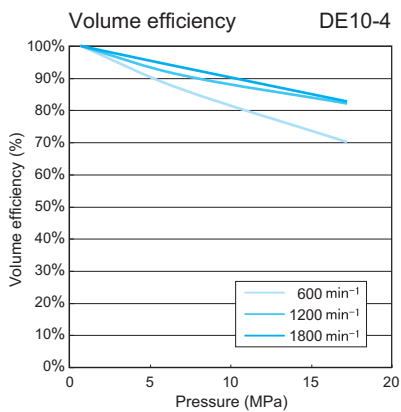
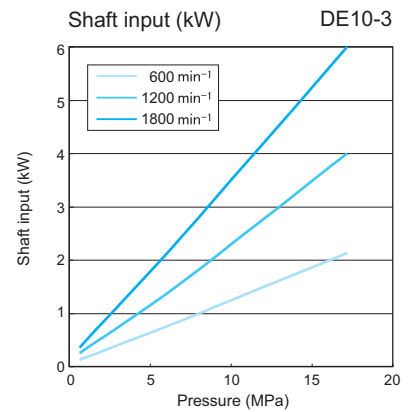
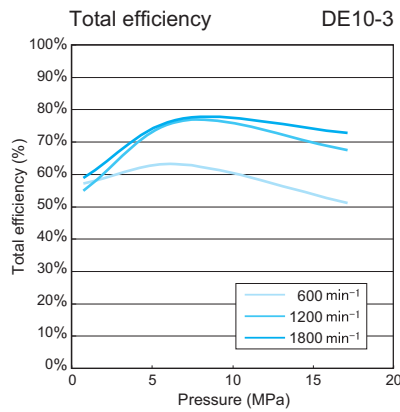
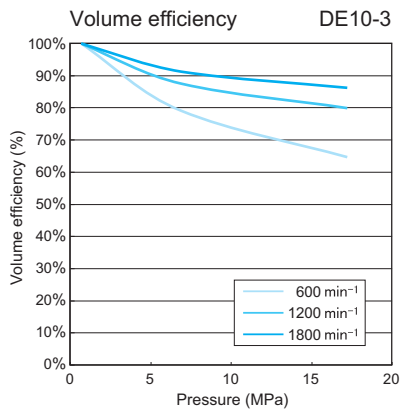
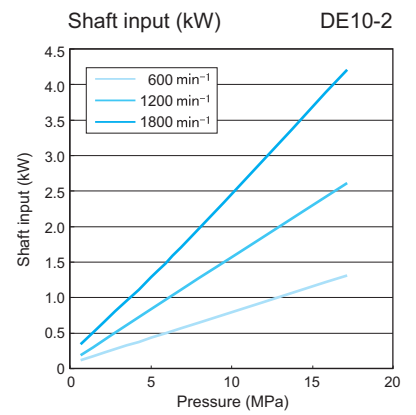
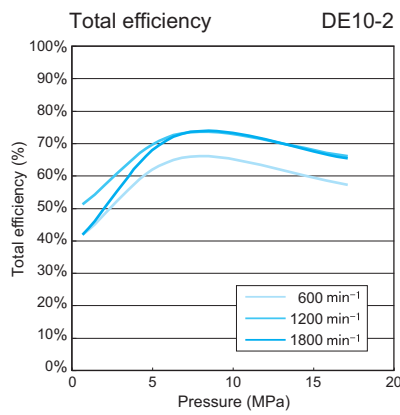
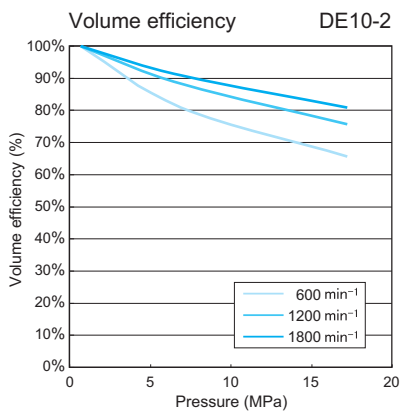
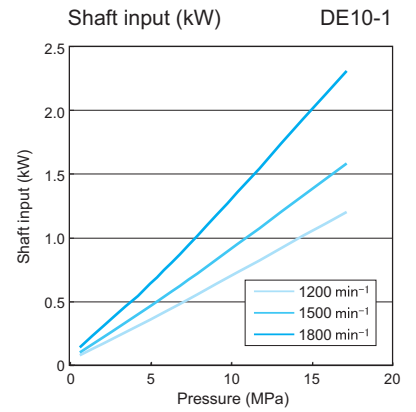
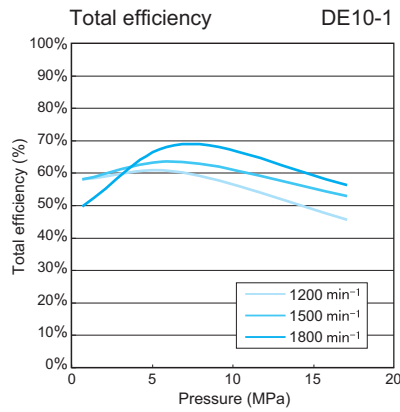
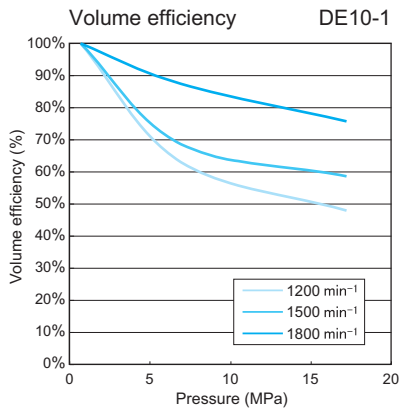
DE10 Seal/bearing table

Part No.	Name	Specifications	Material	Quantity
1	Bearing	6203	-	1
2	Oil seal	Special part	NBR	1
3	O-ring	AS568-143	NBR	1
4	O-ring	AS568-144	NBR	1

DE20 Seal/bearing table

Part No.	Name	Specifications	Material	Quantity
1	Bearing	6204	-	1
2	Oil seal	Special part	NBR	1
3	O-ring	AS568-236	NBR	1
4	O-ring	Special part	NBR	1

General performance Fluid used: viscosity of 32 mm²/s, Fluid temperature: 49°C



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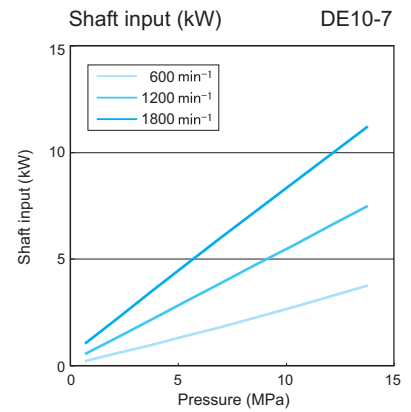
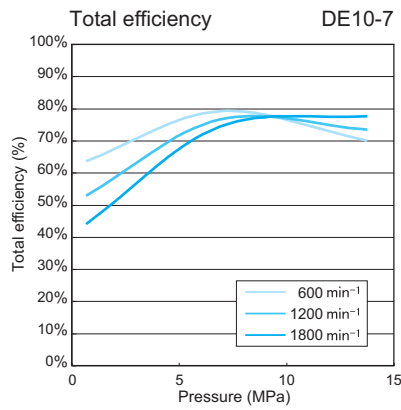
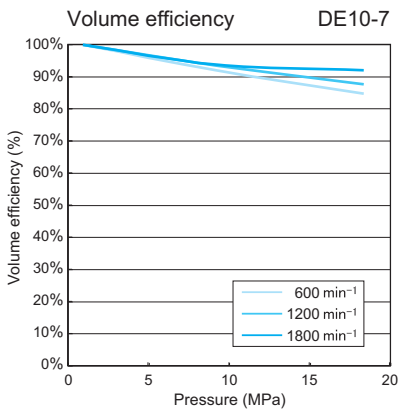
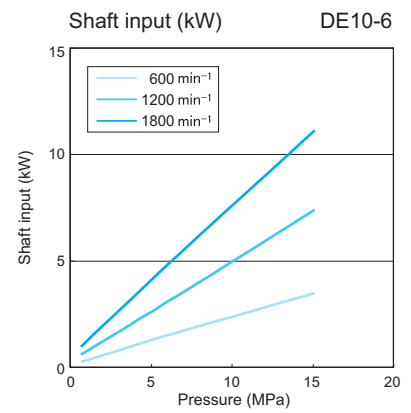
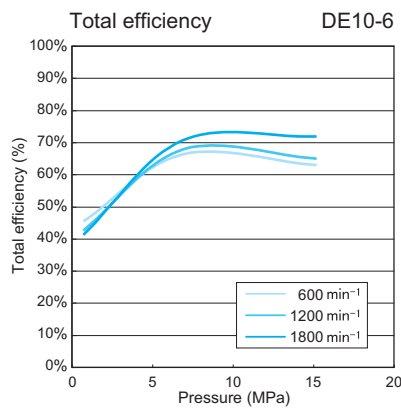
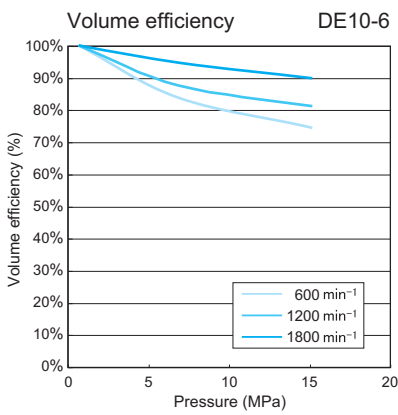
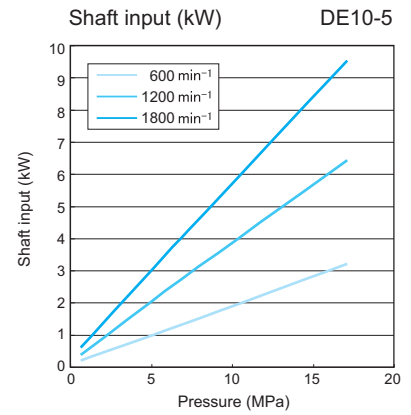
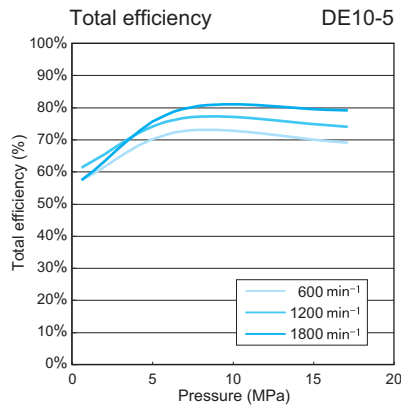
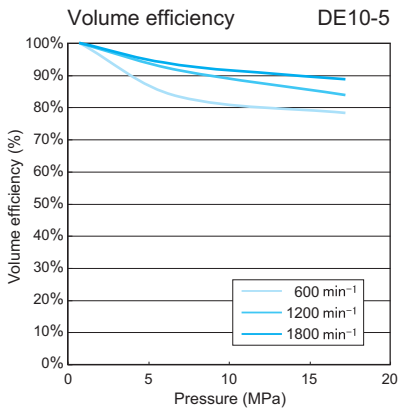
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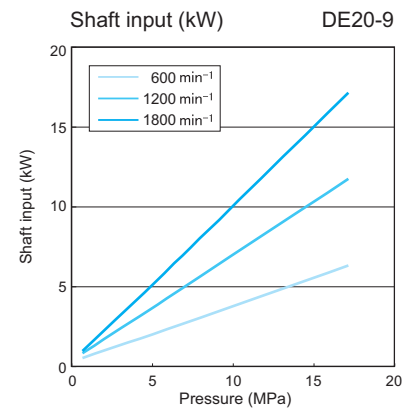
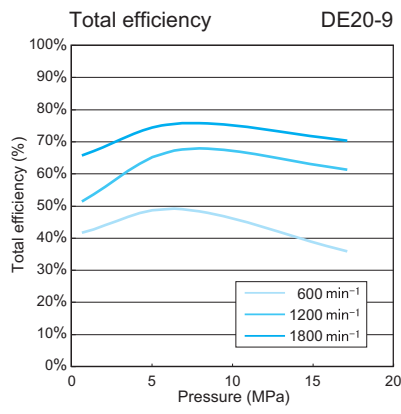
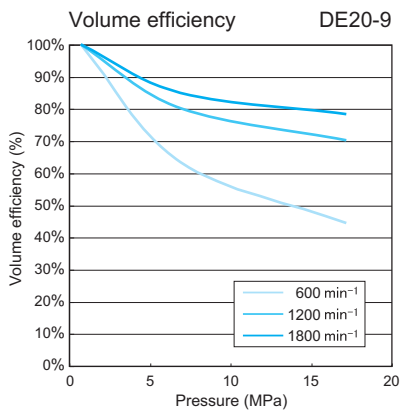
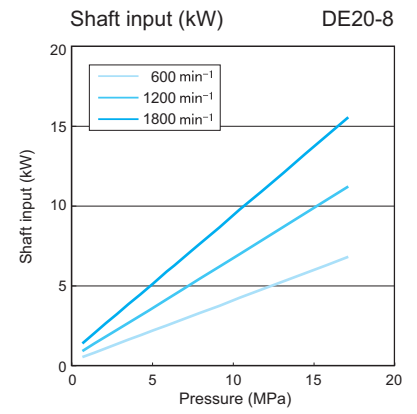
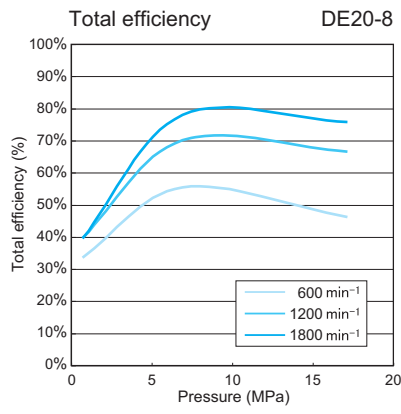
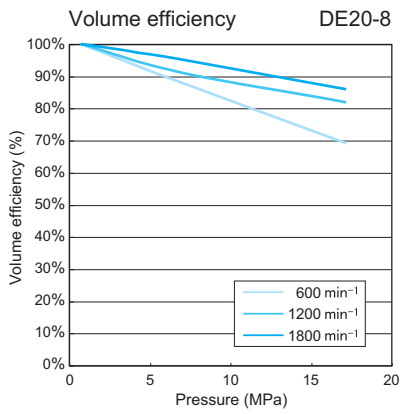
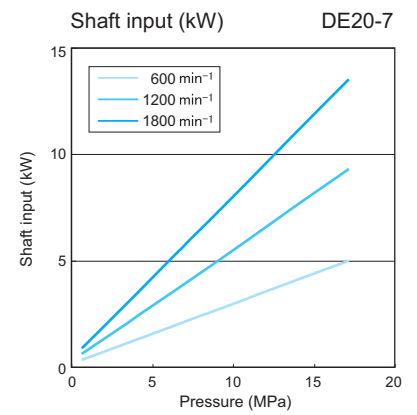
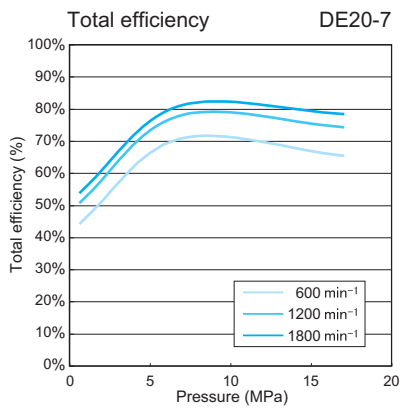
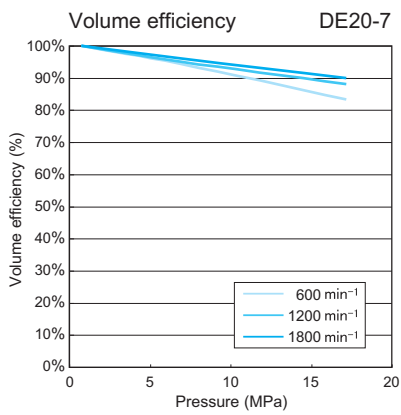
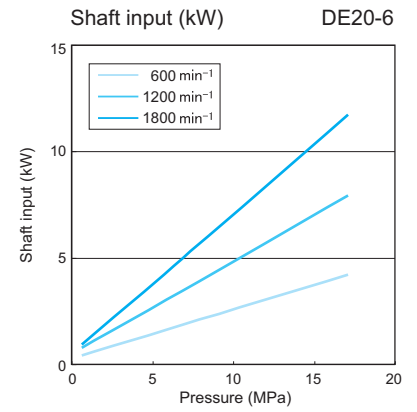
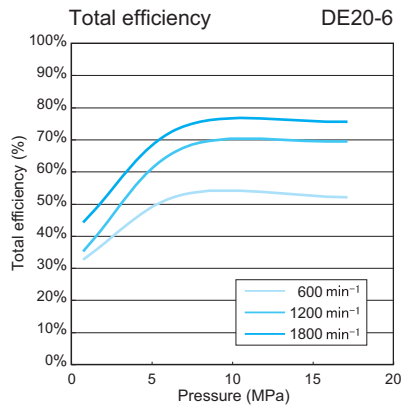
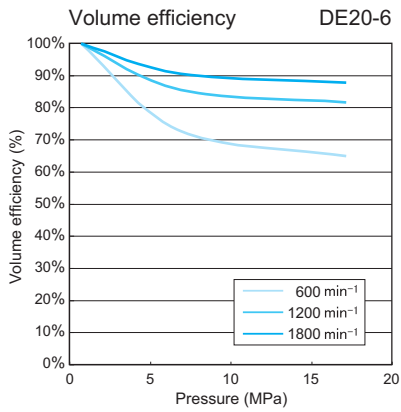
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General performance Fluid used: viscosity of 32 mm²/s, Fluid temperature: 49°C



VANE PUMPS

D

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