

Product News

No.25
04E

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A3HM Series High Pressure Variable Displacement Piston Pumps

Notice of Addition of Parallel Key and Axial Port Model

We have added Parallel Key and Axial Port models to expanded mounting options. This enhancement enables us to accommodate a broader range of application needs.

■Applicable Models

All Sizes and Control Types of the A3HM Series.

■Configuration of model number

- In terms of shaft end shapes, the K: Parallel Key type ISO 3019-1 compliant will be added.
★Through-drive is not supported for the Parallel Key type.
- A: Axial Port has been added in the direction of the port.
★Available only for A3HM18, A3HM85, and A3HM100.

A3HM18	-R	01	A	S	R	-20
Series Number	Rotation Direction	Control Method	Mounting Type (ISO3019-1)	Port Orientation	Shaft End Shape	Design Number
A3HM18: (18.6 cm ³ /rev)	[When viewed from the shaft end] R: Clock Direction L: Counter Clock Direction	01: Pressure Compensator Control Type	A: 82-2	S: Side Port A: Axial Port	See Next Page	20
A3HM28: (28.7 cm ³ /rev)			B: 101-2	S: Side Port		20
A3HM45: (45.7 cm ³ /rev)		B: 101-2 C: 127-4				S: Side Port A: Axial Port
A3HM63: (63.5 cm ³ /rev)			C: 127-2/4	S: Side Port A: Axial Port		
A3HM85: (85.6 cm ³ /rev)		20				
A3HM100: (100.7 cm ³ /rev)						20

■Time of addition

Implemented in March 2025

Shaft End Configuration

Series number	Shaft end shape
A3HM18	No symbol: Spline ISO 3019-1 compliant (11 T-16/32DP) R: Spline high transmission torque type (11 T-16/32DP) K: Parallel key ISO 3019 -1 compliant ★ ¹
A3HM28	No symbol: Spline ISO 3019-1 compliant (13 T-16/32DP) R: Spline high transmission torque type (13 T-16/32DP) K: Parallel key ISO 3019 -1 compliant ★ ¹
A3HM45	No symbol: Spline ISO 3019-1 compliant (15 T-16/32DP) R: Spline high transmission torque type (15 T-16/32DP) T: Spline ISO 3019-1 compliant (13 T-16/32DP) U: Spline high transmission torque type (13 T-16/32DP) K: Parallel key ISO 3019 -1 compliant ★ ^{1,2}
A3HM63	No symbol: Spline ISO 3019-1 compliant (15 T-16/32DP, 14 T-12/24DP) R: Spline high transmission torque type (15 T-16/32DP, 14 T-12/24DP) K: Parallel key ISO 3019 -1 compliant ★ ^{1,3}
A3HM85	No symbol: Spline ISO 3019-1 compliant (17 T-12/24DP) T: Spline ISO 3019-1 compliant (14 T-12/24DP) U: Spline high transmission torque (14 T-12/24DP) K: Parallel key ISO 3019 -1 compliant ★ ¹
A3HM100	No symbol: Spline ISO 3019-1 compliant (17 T-16/32DP) T: Spline ISO 3019-1 compliant type (14 T-12/24DP) U: Spline high transmission torque type (14 T-12/24DP) K: Parallel key ISO 3019 -1 compliant type ★ ¹

★1. Through-drive is not supported

★2. Maximum pressure is limited to 31.5 MPa

★3. Pump mounting type: C only

Specifications

For A3HM45, maximum pressure of parallel key type is limited to 31.5 MPa.

(For other sizes with a parallel key, the maximum pressure is 35 MPa.)

External view

For details of the new model [specifications and dimensions], please refer to the table below.

(The design change numbers at the end may vary by page, so please be aware.)

Series Number	External View		
	01 Control Type	07 Control Type	14 Control Type
A3HM18	A3HM18-※01A※-20.pdf	A3HM18-※07A※-20.pdf	A3HM18-※14A※-20.pdf
A3HM28	A3HM28-※01BS※-20.pdf	A3HM28-※07BS※-20.pdf	A3HM28-※14BS※-20.pdf
A3HM45	A3HM45-※01BS※-20.pdf	A3HM45-※07BS※-20.pdf	A3HM45-※14BS※-20.pdf
A3HM63	A3HM63-※01※S※-20.pdf	A3HM63-※07※S※-20.pdf	A3HM63-※14※S※-20.pdf
A3HM85	A3HM85-※01C※-20.pdf	A3HM85-※07C※-20.pdf	A3HM85-※14C※-20.pdf
A3HM100	A3HM100-※01C※-20.pdf	A3HM100-※07C※-20.pdf	A3HM100-※14C※-20.pdf