

Product News

NO.23 09E

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A3HM Series High Pressure Variable Displacement Piston Pumps

Notice of Model Change

We are pleased to announce a model change to the 20-design A3HM series high-pressure variable displacement piston pumps, which have been well received by our customers.

■Major Changes

- (1)The external shape and port positions of the on-board control valve have been changed.
- (2) Shaft extension shape has been added to some models (A3HM45, A3HM85, A3HM100).

■Specifications

Specifications are unchanged.

■Mounting Interchangeability

There is no change in the pump installation dimensions, but due to a change in the position of the control valve pilot port, some of the following models are not compatible for installation [see No. 3].

Control Type	Mounting Interchangeability	
01: Pressure Compensator Type	Interchangeable	
07: Pilot Pressure Control Type Pressure Compensator	Not laterale and a bla	
14: Load Sensing Type	Not Interchangeable	

■External Shape and Dimensions

Please refer to the following external drawing or the general catalog for the external shape and dimensions of the new 20 design.

Details

Series Number	Drawing Number				
Series Murriber	01 Control	07 Control	14 Control		
A3HM18	2250-PA316128-8	2250H-PA316220-0	2250Q-PA316137-9		
A3HM28	2251-PA316133-8	2251H-PA316221-0	2251Q-PA316136-1		
A3HM45	2252-PA316111-4	2252H-PA316222-0	2252Q-PA316114-8		
A3HM63	2253-PA316129-6	2253H-PA316223-0	2253Q-PA316132-0		
A3HM85	2254-PA316123-9	2254H-PA316224-0	2254Q-PA316125-4		
A3HM100	2255-PA316118-9	2255H-PA316225-0	2255Q-PA316120-5		

Hydraulic Equipment Engineering Information Catalog

Cat.A-Edit3E Piston Pumps



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■Timing of Release

All Models, Upon depletion of current stock.

■Model Number Designation

Design numbers will be updated to 20 designs.

Furthermore, shaft extension shape has been added for A3HM45, A3HM85 and A3HM100.

A3HM18	-R	01	А	S	R	-20
Series Number	Direction of Rotation	Control Type	Mounting (ISO3019-1)	Port Position	Shaft Extension	Design Number
A3HM18: (18.6 cm³/rev)			A: 82-2			20
A3HM28: (28.7 cm³/rev)	[Viewed from	01: Pressure Compensator Type	D: 101 2			20
A3HM45: (45.7 cm³/rev)	Shaft End]	naft End] 07: Pilot Pressure Control Type Pressure	B: 101-2	S: Side Port	Splined Shaft See Table	20
A3HM63: (63.5 cm³/rev)	L: Counter-		B: 101-2 C: 127-4	S. Side Port	Below For Details	20
A3HM85: (85.6 cm³/rev)	Clockwise		14: Load Sensing Type	C: 127-2/4	-	
A3HM100: (100.7 cm³/rev)			G. 12 <i>1-2</i> /4			20

Shaft Extension Details

Series Number	Shaft Extension Before Change	Shaft Extension After Change
A3HM18		None: ISO 3019-1 Standard(11T-16/32DP) R: High Torque Transmission Type (11T-16/32DP)
A3HM28		None: ISO 3019-1 Standard (13T-16/32DP) R: High Torque Transmission Type (13T-16/32DP)
A3HM45	None: ISO 3019-1Standard R: High Torque Transmission Type	None: ISO 3019-1 Standard (15T-16/32DP) R: High Torque Transmission Type (15T-16/32DP) T: ISO 3019-1 Standard (13T-16/32DP)* U: High Torque Transmission Type (13T-16/32DP)
A3HM63		None: ISO 3019-1 Standard (15T-16/32DP, 14T-12/24DP) R: High Torque Transmission Type (15T-16/32DP, 14T-12/24DP)
A3HM85	Name ISO 2040 4 Chandand	None: ISO 3019-1 Standard (17T-12/24DP) T: ISO 3019-1 Standard (14T-12/24DP) U: High Torque Transmission Type (14T-12/24DP)
A3HM100	None: ISO 3019-1 Standard	None: ISO 3019-1 Standard (17T-16/32DP) T: ISO 3019-1 Standard (14T-12/24DP) U: High Torque Transmission Type (14T-12/24DP)

[★]There are limitations on specifications. Please contact us for details.



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Design Number

Series Number	Old Design Number	New Design Number
A3HM18	11	
A3HM28	12	
A3HM45	12	20
A3HM63	12	20
A3HM85	11	
A3HM100	11	

■External View / Mounting Dimensions

Due to the change of the control valve, the external shape and each dimension will be changed.

There are no changes in dimensions other than those listed below.

(1) Pressure Compensator Type

Maximum height increased by 1mm [A3HM45].

Old		New		
Model Number	Α	Model Number	A'	
A3HM18-%01AS%-11	168	A3HM18-※01AS※-20	168(No Change)	
A3HM28-%01BS%-12	169	A3HM28-%01BS%-20	169(No Change)	
A3HM45-%01BS%-12	183.5	A3HM45-%01BS%-20	184.5	
A3HM63-%01%S%-12	188	A3HM63-%01%S%-20	188(No Change)	
A3HM85-※01CS-11	217	A3HM85-※01CS※-20	217(No Change)	
A3HM100-%01CS-11	219	A3HM100-%01CS%-20	219(No Change)	

Old	New		



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(2) Pilot Pressure Control Type Pressure Compensator / Load Sensing Type

Maximum height increased by 7 mm, external pilot port and load sensing port locations changed.

Old			New				
Model Number	В	С	D	Model Number	B'	C,	D'
A3HM18-%07AS%-11 A3HM18-%14AS%-11	188	94.8	98.5	A3HM18-※07AS※-20 A3HM18-※14AS※-20	195	96	102
A3HM28-%07BS%-12 A3HM28-%14BS%-12	182	105.8	98.5	A3HM28-%07BS%-20 A3HM28-%14BS%-20	189	107	102
A3HM45-%07BS%-12 A3HM45-%14BS%-12	203.5	126.3	110.5	A3HM45-%07BS%-20 A3HM45-%14BS%-20	210.5	127.5	114
A3HM63-%07%S%-12 A3HM63-%14%S%-12	208	142.8	112.5	A3HM63-%07%S%-20 A3HM63-%14%S%-20	215	144	116
A3HM85-※07CS-11 A3HM85-※14CS-11	233.5	159.3	129	A3HM85-※07CS※-20 A3HM85-※14CS※-20	240.5	160.5	132.5
A3HM100-※07CS-11 A3HM100-※14CS-11	233.5	159.3	129	A3HM100-%07CS%-20 A3HM100-%14CS%-20	240.5	160.5	132.5

