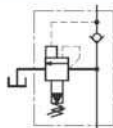
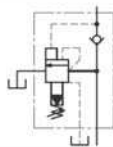
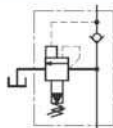
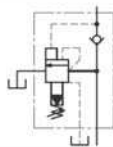
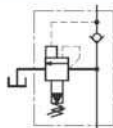
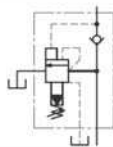
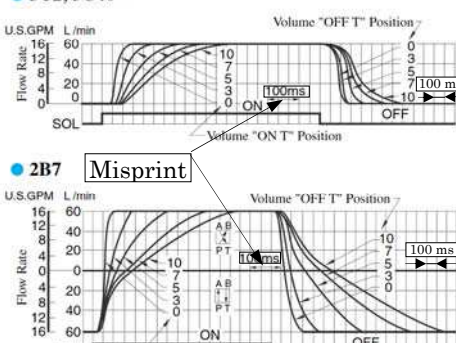
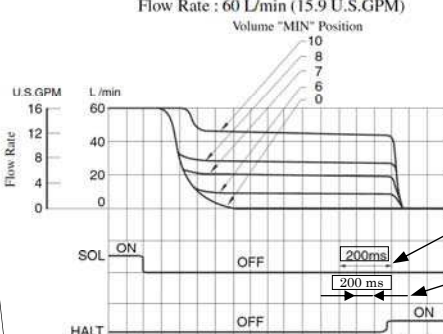




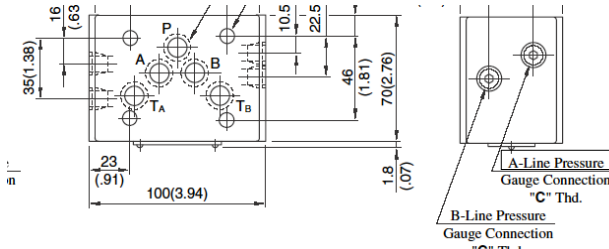


# YUKEN Engineering Information Catalogue Edit. 11 Corrigenda

Page	Corrections																					
28	<div>[Recommended Drain Piping Size]</div> <table><tr><th rowspan="2">Model</th><th colspan="2">Fitting Size</th><th rowspan="2">Inside Dia. of Pipe</th></tr><tr><th>Japanese Std. "JIS" &amp; European Design Std.</th><th>N.American Design Std.</th></tr><tr><td>A10</td><td>3/8 [Inside Dia. 8.5 mm (.33 in.) or more]</td><td>SAE #6</td><td rowspan="2">10 mm (.39 in.)</td></tr><tr><td>A16, A22</td><td>3/8 [Inside Dia. 8.5 mm (.33 in.) or more]</td><td>SAE #8</td></tr><tr><td>A37</td><td>1/2 [Inside Dia. 10 mm (.47 in.) or more]</td><td>SAE #10</td><td>12 mm (.47 in.)</td></tr><tr><td>A56, A70 A90, A145</td><td>3/4 [Inside Dia. 16 mm (.63 in.) or more]</td><td>SAE #12</td><td>19 mm (.75 in.)</td></tr></table> <div>(RIGHT) 12 mm (.47 in.)</div>	Model	Fitting Size		Inside Dia. of Pipe	Japanese Std. "JIS" & European Design Std.	N.American Design Std.	A10	3/8 [Inside Dia. 8.5 mm (.33 in.) or more]	SAE #6	10 mm (.39 in.)	A16, A22	3/8 [Inside Dia. 8.5 mm (.33 in.) or more]	SAE #8	A37	1/2 [Inside Dia. 10 mm (.47 in.) or more]	SAE #10	12 mm (.47 in.)	A56, A70 A90, A145	3/4 [Inside Dia. 16 mm (.63 in.) or more]	SAE #12	19 mm (.75 in.)
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51	<div>● List of Seal Kits (MISPRINT)</div> <table><tr><th>Pump Model Numbers</th><th>Seal Kit Numbers</th></tr><tr><td>A10-FR01B-12</td><td>KS-A10-01B-12</td></tr><tr><td>A10-FR01C-12/1280/12950</td><td rowspan="2">KS-A10-01H-12</td></tr><tr><td>A10-FR01H-12/1280/12950</td></tr></table> <div>● List of Seal Kits (RIGHT)</div> <table><tr><th>Pump Model Numbers</th><th>Seal Kit Numbers</th></tr><tr><td>A10-FR01B-12</td><td rowspan="3">KS-A10-01-12</td></tr><tr><td>A10-FR01C-12/1280/12950</td></tr><tr><td>A10-FR01H-12/1280/12950</td></tr></table>	Pump Model Numbers	Seal Kit Numbers	A10-FR01B-12	KS-A10-01B-12	A10-FR01C-12/1280/12950	KS-A10-01H-12	A10-FR01H-12/1280/12950	Pump Model Numbers	Seal Kit Numbers	A10-FR01B-12	KS-A10-01-12	A10-FR01C-12/1280/12950	A10-FR01H-12/1280/12950								
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91	<table><tr><th>Model Numbers</th><th>"C" Thd.</th><th>"D" Thd.</th><th>"E" mm (IN.)</th></tr><tr><td>A56-FR04EH*-*-42</td><td>Rc 3/4</td><td>M10</td><td>19 (.75)</td></tr><tr><td>A56-FR04EH*-*-4290</td><td>SAE #12</td><td>7/16-14 UNC</td><td>20 (.79)</td></tr></table> <div>(RIGHT) 42950</div>	Model Numbers	"C" Thd.	"D" Thd.	"E" mm (IN.)	A56-FR04EH*-*-42	Rc 3/4	M10	19 (.75)	A56-FR04EH*-*-4290	SAE #12	7/16-14 UNC	20 (.79)									
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Page	Corrections																																																																		
106	● A70/A145																																																																		
	A70	-F	R	09	A		S	-60	*																																																										
	Series Number	Mounting	Direction of Rotation	Control Type	Input Power Setting		Direction of Port	Design Number	Design Std.																																																										
	A70 (70 cm <sup>3</sup> /rev)	F: Flange Mtg.	(Viewed from Shaft End)	09: Constant Power Control Type	A: 15 kW (20 HP) B: 18.5 kW (25 HP)	E: 22 kW (30 HP) F: 30 kW (40 HP)	S: Side Port	60	Refer to ★3																																																										
A145 (145 cm <sup>3</sup> /rev)	L: Foot Mtg.	R: Clockwise*1 (Normal)		A: 15 kW (20 HP) B: 18.5 kW (20 HP) C: 22 kW (30 HP) D: 30 kW (40 HP)	E: 37 kW (50 HP) F: 45 kW (60 HP) G: 55 kW (75 HP) H: 75 kW (100 HP)		60																																																												
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137	<table><tr><th rowspan="2">Model Numbers</th><th colspan="3">Thread Size</th><th colspan="8">Dimensions mm (Inches)</th></tr><tr><th>C</th><th>D</th><th>E</th><th>F</th><th>H</th><th>J</th><th>K</th><th>L</th><th>N</th><th>P</th><th></th></tr><tr><td>A3H145-FR01KK-10</td><td>Rc 3/4</td><td rowspan="2">M12</td><td rowspan="2">—</td><td rowspan="2">22 (.87)</td><td rowspan="2">—</td><td rowspan="2">95 (3.74)</td><td rowspan="2">81 (3.19)</td><td rowspan="2">63 (2.48)</td><td>49.39 (1.944)</td><td>44.45 (1.7500)</td><td rowspan="2">50.80(2.0000) 50.75(1.9980)</td></tr><tr><td>A3H145-FR01KK-1080</td><td>3/4 BSP.F</td><td>49.21 (1.937)</td><td>44.40 (1.7480)</td></tr><tr><td>A3H145-FR01KK-10954</td><td rowspan="2">SAE #12</td><td rowspan="2">1/2-13 UNC</td><td>1/2-13 UNC</td><td>32 (1.26)</td><td rowspan="2">74.6 (2.94)</td><td rowspan="2">60.6 (2.39)</td><td rowspan="2">50 (1.97)</td><td rowspan="2">50 (1.97)</td><td>49.39 (1.944)</td><td>44.45 (1.7500)</td><td rowspan="2">56.43(2.2222) 56.25(2.215)</td></tr><tr><td>A3H145-FR01KK1-10954</td><td>5/8-11 UNC</td><td>21 (.83)</td><td>49.21 (1.937)</td><td>44.40 (1.7480)</td></tr></table>											Model Numbers	Thread Size			Dimensions mm (Inches)								C	D	E	F	H	J	K	L	N	P		A3H145-FR01KK-10	Rc 3/4	M12	—	22 (.87)	—	95 (3.74)	81 (3.19)	63 (2.48)	49.39 (1.944)	44.45 (1.7500)	50.80(2.0000) 50.75(1.9980)	A3H145-FR01KK-1080	3/4 BSP.F	49.21 (1.937)	44.40 (1.7480)	A3H145-FR01KK-10954	SAE #12	1/2-13 UNC	1/2-13 UNC	32 (1.26)	74.6 (2.94)	60.6 (2.39)	50 (1.97)	50 (1.97)	49.39 (1.944)	44.45 (1.7500)	56.43(2.2222) 56.25(2.215)	A3H145-FR01KK1-10954	5/8-11 UNC	21 (.83)	49.21 (1.937)	44.40 (1.7480)
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265	<table><tr><th>Pilot &amp; Drain Conn.</th><th>Graphic Symbols</th><th>European Design Standard</th><th>N. American Design Standard</th><th>Japanese Std. "JIS"</th></tr><tr><td>Int. Pitot- Int. Drain</td><td></td><td>BU CG-06-**-30801 BU CG-10-**-25801</td><td>BU CG-06-**-30901 BU CG-10-**-25901</td><td>BU CG-06-**-3001 BU CG-10-**-2501</td></tr><tr><td>Int. Pitot- Ext. Drain</td><td></td><td>BU CG-06-**-30802</td><td>BU CG-06-**-30902</td><td>(RIGHT) BU CG-10-**-2502 BU CG-06-**-2502</td></tr></table>	Pilot & Drain Conn.	Graphic Symbols	European Design Standard	N. American Design Standard	Japanese Std. "JIS"	Int. Pitot- Int. Drain		BU CG-06-**-30801 BU CG-10-**-25801	BU CG-06-**-30901 BU CG-10-**-25901	BU CG-06-**-3001 BU CG-10-**-2501	Int. Pitot- Ext. Drain		BU CG-06-**-30802	BU CG-06-**-30902	(RIGHT) BU CG-10-**-2502 BU CG-06-**-2502			
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382	<p>■ Model Number Designation</p> <p>Symbol of Drain Connection is incorrect</p> <p><b>E</b> : Internal Drain      <b>T</b> : Internal Drain</p>																		
415	<div><p>■ Shifting Characteristics</p><p>Supply Pressure : 16 MPa (2320 PSI) Flow Rate : 60 L/min (15.9 U.S.GPM)</p><p>● 3C2, 3C40</p><p>Misprint</p><p>Right</p></div> <div><p>■ Low Speed Operating Flow Characteristics</p><p>Supply Pressure : 16 MPa (2320 PSI) Flow Rate : 60 L/min (15.9 U.S.GPM)</p><p>Misprint</p><p>Right</p></div>																		
504	<p>Graphic Symbols</p> <div><p>(Right)</p><p>External Drain Type</p></div> <div><p>(Right)</p><p>Internal Drain Type</p></div> <div><p>(Misprint)</p><p>External Drain Type</p></div> <div><p>(Right)</p><p>Internal Drain Type</p></div>																		
544	<p>■ Model Number Designation</p> <table><tr><th>F-</th><th>MHP</th><th>-01</th><th>-C</th><th>-30</th><th>*</th></tr><tr><td>Special Seals</td><td>Series Number</td><td>Valve Size</td><td>Pres. Adj. Range MPa (PSI)</td><td>Design Number</td><td>Design Standard</td></tr><tr><td>F: Special Seals for Phosphate Ester Type Fluids (Omit if not required)</td><td>MHP: Sequence Valve for P-Line MHB: Counterbalance Valve for A-Line</td><td>01</td><td>C: *-14 *1 (*-2030) H: 7-21 (1020-3050)</td><td>30</td><td>Refer to ★ 2</td></tr></table> <p>(Right) MHA</p>	F-	MHP	-01	-C	-30	*	Special Seals	Series Number	Valve Size	Pres. Adj. Range MPa (PSI)	Design Number	Design Standard	F: Special Seals for Phosphate Ester Type Fluids (Omit if not required)	MHP: Sequence Valve for P-Line MHB: Counterbalance Valve for A-Line	01	C: *-14 *1 (*-2030) H: 7-21 (1020-3050)	30	Refer to ★ 2
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614	 <p>(Right)</p> <p>P-Line Pressure</p> <p>A-Line Pressure Gauge Connection "C" Thd.</p> <p>B-Line Pressure Gauge Connection "C" Thd.</p>																		

Page	Corrections																																								
669	<div><div>Instructions</div><div><div>■ Mounting</div><div>Be sure that the air vent faces up. In addition, if the valve is mounted vertically, the minimum adjustment pressure is 0.2 MPa (29 PSI) or higher.</div><div><div>[Good example]</div><div>[Bad example]</div></div></div><div>This title is omitted</div></div>																																								
676	<div><div>■ Model Number Designation</div><table><tr><th>F-</th><th>EB</th><th>G</th><th>-03</th><th>-C</th><th>-T</th><th>-51</th><th>*</th></tr><tr><td>Special Seals</td><td>Series Number</td><td>Type of Mounting</td><td>Valve Size</td><td>Pres. Adj. Range MPa (PSI)</td><td>Safety Valve</td><td>Design Number</td><td>Design Standards</td></tr><tr><td><b>F:</b> Special Seals for Phosphate Ester Type Fluid (Omit if not required)</td><td><b>EB:</b> Proportional Electro-Hydraulic Relief Valve</td><td><b>G:</b> Sub-plate Mounting</td><td><b>03</b></td><td><b>C:</b> * - 15.7 (* - 2275) <b>H:</b> * - 24.5 (* - 3550)</td><td><b>None:</b> With Safety Valve <b>T:</b> Without Safety Valve</td><td><b>51</b></td><td>Refer to *2</td></tr><tr><td></td><td></td><td></td><td><b>06</b></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td><b>10</b></td><td></td><td></td><td></td><td></td></tr></table><div><div>★ 1. Min. adjustment pressure shall be referred to the curves on page XXX.</div><div>680</div></div></div>	F-	EB	G	-03	-C	-T	-51	*	Special Seals	Series Number	Type of Mounting	Valve Size	Pres. Adj. Range MPa (PSI)	Safety Valve	Design Number	Design Standards	<b>F:</b> Special Seals for Phosphate Ester Type Fluid (Omit if not required)	<b>EB:</b> Proportional Electro-Hydraulic Relief Valve	<b>G:</b> Sub-plate Mounting	<b>03</b>	<b>C:</b> * - 15.7 (* - 2275) <b>H:</b> * - 24.5 (* - 3550)	<b>None:</b> With Safety Valve <b>T:</b> Without Safety Valve	<b>51</b>	Refer to *2				<b>06</b>								<b>10</b>				
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