






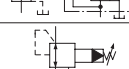







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PRESSURE CONTROLS

Valve Type	Graphic Symbols	Maximum Operating Pressure MPa (PSI)	Maximum Flow												Page
			U.S.GPM 1 2 3 5 10 20 30 50 100 200 300 500 1000 2000 L/min												
Remote Cont. Relief Valves		25 (3630)	DT DG 01												203
Direct Type Relief Valves		21 (3050)	DT/DG 02												206
Pilot Operated Relief Valves		25 (3630)	BT/BG 03 06												209
Low Noise Type Pilot Operated Relief Valves		25 (3630)	S-BG 03 06 10												216
Sol. Cont. Relief Valves		25 (3630)	BST/BSG 03 06 10												220
Low Noise Type Sol. Cont. Relief Valves		25 (3630)	S-BSG 03 06 10												230
H Type Press. Cont. Valves / HC Type Press. Cont. Valves		21 (3050)	HT/HG HCT/HCG 03 06 10 HF HCF 16												237
Press. Reducing Valves / Press. Reducing & & Check Valves		21 (3050)	RT/RG RCT/RCG 03 06 10 RF RCF 16												251
Pres. Reducing & Relieving Valves		03 : 14(2030) 06 : 25(3630)	RBG 03 06												260
Unloading Relief Valves		21 (3050)	BUCC 06 10												265
Brake Valves		25 (3630)	UBGR 03 06 10												271
Semiconductor Type Pressure Switches		35 (5080)	JT-02												272
Pressure Monitoring System		20(2900) 35(5080)													274

Hydraulic Fluids

Fluid Types

Any type of hydraulic fluids listed in the table below can be used.

Petroleum base oils	Use fluids equivalent to ISO VG 32 or VG 46.
Synthetic fluids	Use phosphate ester or polyol ester fluid. When phosphate ester fluid is used, prefix "F-" to the model number because the special seals (fluororubber) are required to be used.
Water containing fluids	Use water-glycol fluid.

Note: For use with hydraulic fluids other than those listed above, please consult your Yuken representatives in advance.

Recommended Fluid Viscosity and Temperature

Use under conditions where the viscosity and temperature of the hydraulic fluid remain in the ranges indicated in the following table.

Name	Viscosity	Temperature
Remote Control Relief Valves Direct Type Relief Valves Pilot Operated Relief Valves Low Noise Type Pilot Operated Relief Valves Solenoid Controlled Relief Valves * Low Noise Type Solenoid Controlled Relief Valves * H Type Pressure Control Valves HC Type Pressure Control Valves Pressure Reducing Valves Pressure Reducing and Check Valves Pressure Reducing and Relieving Valves Unloading Relief Valves Brake Valves	15 - 400 mm ² /s (88 - 1800 SSU)	-15 - +70°C (5 - 158°F)
Semiconductor Type Pressure Switches	15 - 400 mm ² /s (88 - 1800 SSU)	-20 - +70°C (- 4 - 158°F)

* If the valve is provided with a vent restrictor (ex. : A-BSG-03), the viscosity range should be 15 - 200 mm²/s (80 - 900 SSU).

Control of Contamination

Due caution must be paid to maintaining control over contamination of the hydraulic fluids which may otherwise lead to breakdowns and shorten the life of the valves. Please maintain the degree of contamination within NAS 1638-Grade 12. Use 25 μm or finer line filter.

Interchangeability in Installation between Current and New Design

Model change has been made on the following products.

The difference between current and new design has been described on the paragraph of "Interchangeability in Installation between Current and New Design". Refer to relevant pages on each series.

Name	Model Numbers		Mounting Interchangeability	Main Changes	Page
	Current	New			
Solenoid Controlled Relief Valve	BS*-03, -47*	BS*-03, -48*	Yes	Pilot valves (DSG-01) have been changed in the design numbers 70.	222
	BS*-06, -47*	BS*-06, -48*			
	BS*-10, -47*	BS*-10, -48*			
Low Noise Type Solenoid Controlled Relief Valve	S-BSG-03, -52*	S-BSG-03, -53*	Yes		231
	S-BSG-06, -52*	S-BSG-06, -53*			
	S-BSG-10, -52*	S-BSG-10, -53*			