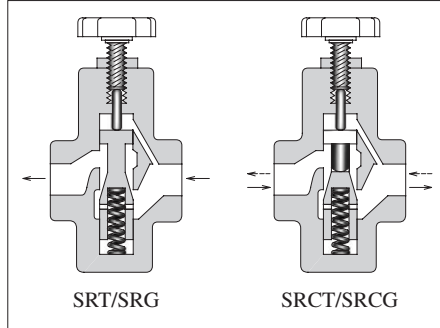
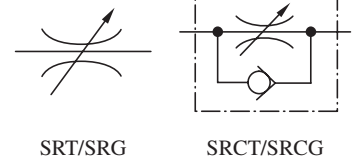


Restrictors / One Way Restrictors

This valve is used to regulate an actuator speed in a circuit where line pressure is almost steady and small fluctuation of oil flow due to pressure changes is permitted. Integrated check valve allows reversed free flow from outlet to inlet port. Pressure balanced construction provides less effort in adjustment at high pressure.



Graphic Symbols



Specifications

Valve Name	Model Numbers		Rated Flow* L/min (U.S.GPM)	Max. Operating Pres. MPa (PSI)	Approx. Mass kg (lbs.)	
	Threaded Connection	Sub-plate Mounting			Threaded Connection	Sub-plate Mounting
Restrictor	SRT-03-50/5080/5090	SRG-03-50/5090	30 (7.9)	25 (3630)	1.5 (3.3)	2.5 (5.5)
	SRT-06-50/5080/5090	SRG-06-50/5090	85 (22.4)		3.8 (8.4)	3.9 (8.6)
	SRT-10-50/5080/5090	SRG-10-50/5090	230 (60.7)		9.1 (20.1)	7.5 (16.5)
One Way Restrictor	SRCT-03-50/5080/5090	SRCG-03-50/5090	30 (7.9)	25 (3630)	1.5 (3.3)	2.5 (5.5)
	SRCT-06-50/5080/5090	SRCG-06-50/5090	85 (22.4)		3.8 (8.4)	3.9 (8.6)
	SRCT-10-50/5080/5090	SRCG-10-50/5090	230 (60.7)		9.1 (20.1)	7.5 (16.5)

*Rated flow stands for approximate flow rate when the pressure drop between inlet and outlet ports of the valve in fully opened condition becomes 0.3 MPa (44 PSI) maximum at fluid's specific gravity of 0.85 and kinematic viscosity of 20 mm²/s (98 SSU).

Yuken can offer flanged connection valves described below.

For details, contact us.

Model Numbers	Rated Flow L/min (U.S.GPM)	Max. Operating Pressure MPa (PSI)
SRF/SRCF-10-50 SRF/SRCF-10-5090	230 (60.7)	25 (3630)
SRF/SRCF-16-50 SRF/SRCF-16-5090	500 (132)	

Model Number Designation

F-	SR	T	-03	-50	*
Special Seals	Series Number	Type of Mounting	Valve Size	Design Number	Design Standards
F: Special Seals for Phosphate Ester Type Fluids (Omit if not required)	SR: Restrictor	T: Threaded Connection	03	50	None: Japanese Std. "JIS" 80: European Design Std. 90: N.American Design Std.
			06	50	
			10	50	
		G: Sub-plate Mounting	03	50	
			06	50	
			10	50	
	SRC: One Way Restrictor	T: Threaded Connection	03	50	None: Japanese Std. "JIS" 80: European Design Std. 90: N.American Design Std.
			06	50	
			10	50	
		G: Sub-plate Mounting	03	50	
			06	50	
			10	50	

Attachment

● Mounting Bolts

Valve Model Numbers	Socket Head Cap Screw		Qty.
	Japanese Std. "JIS" and European Design Std.	N. American Design Std.	
SRG/SRCG-03	M10 × 45 Lg.	3/8-16 UNC × 1-3/4 Lg.	4
SRG/SRCG-06	M10 × 50 Lg.	3/8-16 UNC × 2 Lg.	4
SRG/SRCG-10	M10 × 55 Lg.	3/8-16 UNC × 2-1/4 Lg.	6

Sub-plate

Valve Model Numbers	Japanese Standard "JIS"		European Design Standard		N. American Design Standard		Approx. Mass kg (lbs.)
	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	
SRG SRCG-03	CRGM-03-50	Rc 3/8	CRGM-03-5080	3/8 BSP.F	CRGM-03-5090	3/8 NPT	1.6 (3.5)
	CRGM-03X-50	Rc 1/2	CRGM-03X-5080	1/2 BSP.F	CRGM-03X-5090	1/2 NPT	1.6 (3.5)
SRG SRCG-06	CRGM-06-50	Rc 3/4	CRGM-06-5080	3/4 BSP.F	CRGM-06-5090	3/4 NPT	2.4 (5.3)
	CRGM-06X-50	Rc 1	CRGM-06X-5080	1 BSP.F	CRGM-06X-5090	1 NPT	3.0 (6.6)
SRG SRCG-10	CRGM-10-50	Rc 1-1/4	CRGM-10-5080	1-1/4 BSP.F	CRGM-10-5090	1-1/4 NPT	4.8 (10.6)
	CRGM-10X-50	Rc 1-1/2	CRGM-10X-5080	1-1/2 BSP.F	CRGM-10X-5090	1-1/2 NPT	5.7 (12.6)

- Sub-plates are available. Specify the sub-plate model number from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.
- Sub-plates are common with right angle check valves. For dimensions, see [page 502](#).

Instructions

● Flow Adjustment

Slacken the lock nut and turn the flow adjustment handle anti-clockwise to throttle flow. After achieving satisfactory performance tighten the lock nut.

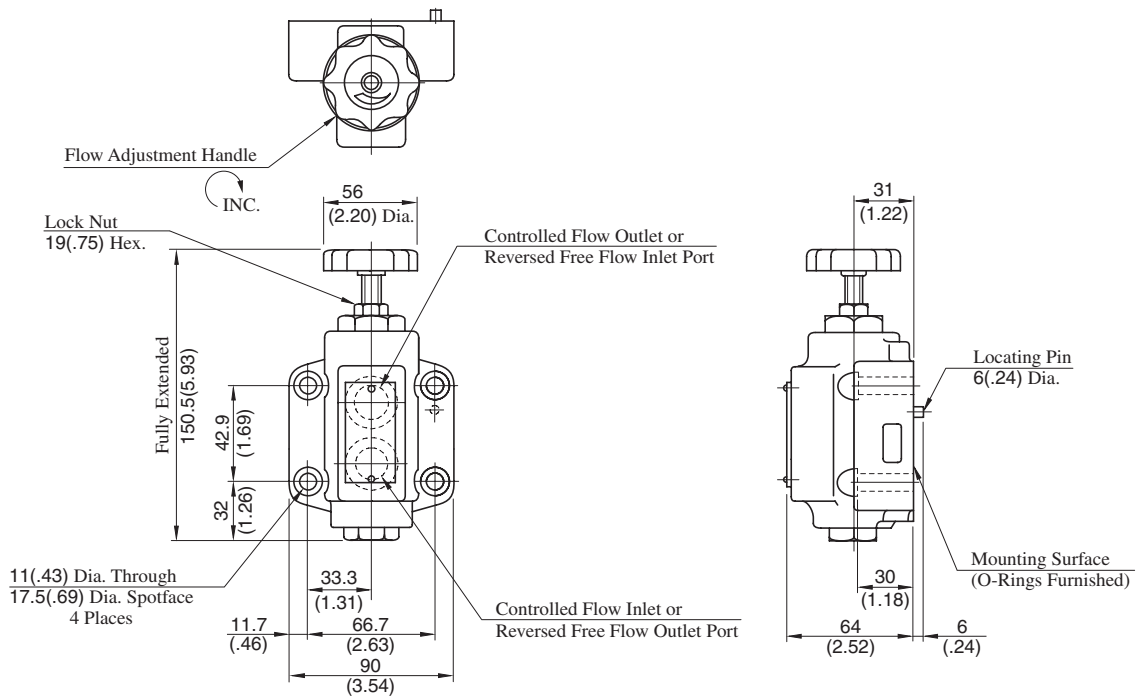
SRT/SRCT-03-50/5080/5090
SRT/SRCT-06-50/5080/5090
SRT/SRCT-10-50/5080/5090

**DIMENSIONS IN
MILLIMETRES (INCHES)**

Model Numbers	Dimensions mm (Inches)								Thd. Size
	C	D	E	F	H	J	K	L	"N" Thd.
SRT/SRCT-03-50	72 (2.83)	36 (1.42)	44 (1.73)	150.5 (5.93)	53.5 (2.11)	38 (1.50) Dia.	46 (1.81)	22 (.87)	Rc 3/8
SRT/SRCT-03-5080									3/8 BSP.F
SRT/SRCT-03-5090									3/8 NPT
SRT/SRCT-06-50	100 (3.94)	50 (1.97)	58 (2.28)	180 (7.09)	66.5 (2.62)	62 (2.44) Sq.	64 (2.52)	31 (1.22)	Rc 3/4
SRT/SRCT-06-5080									3/4 BSP.F
SRT/SRCT-06-5090									3/4 NPT
SRT/SRCT-10-50	138 (5.43)	69 (2.72)	80 (3.15)	227 (8.94)	86 (3.39)	80 (3.15) Sq.	82 (3.23)	40 (1.57)	Rc 1-1/4
SRT/SRCT-10-5080									1-1/4 BSP.F
SRT/SRCT-10-5090									1-1/4 NPT

SRG/SRCG-03-50/5090

Mounting surface: ISO5781-AG-06-2-A

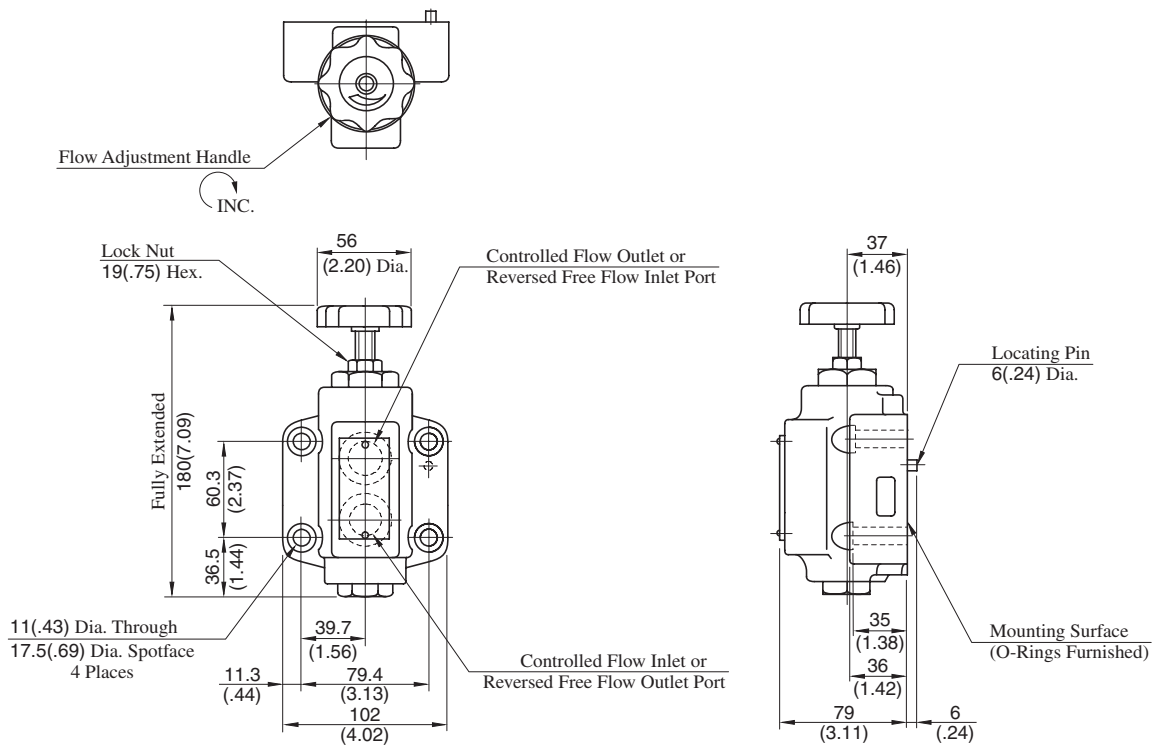


Note: For dimensions of the valve mounting surface, see the dimensional drawing (P.502) of the sub-plate used together.

DIMENSIONS IN
MILLIMETRES (INCHES)

SRG/SRCG-06-50/5090

Mounting surface: ISO5781-AH-08-2-A



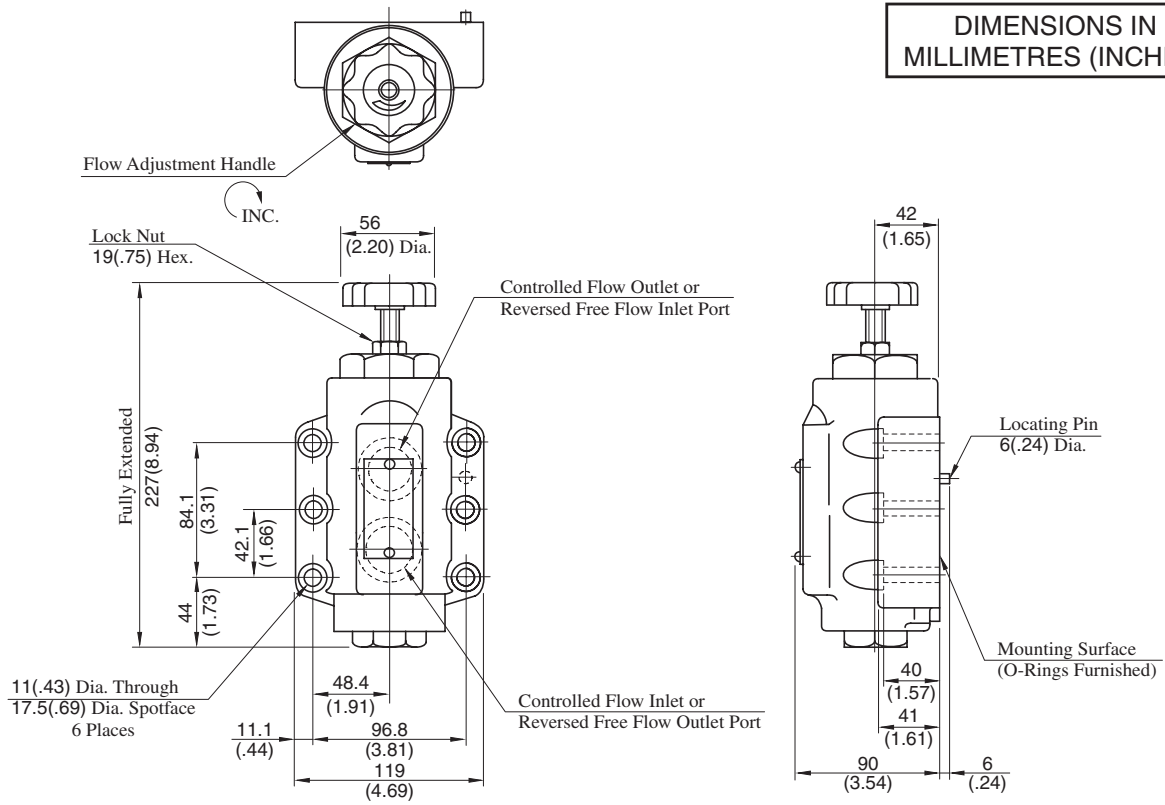
Note: For dimensions of the valve mounting surface, see the dimensional drawing (P.502) of the sub-plate used together.

D
Restrictors
One Way Restrictors

SRG/SRCG-10-50/5090

Mounting surface: ISO 5781-AJ-10-2-A

**DIMENSIONS IN
MILLIMETRES (INCHES)**



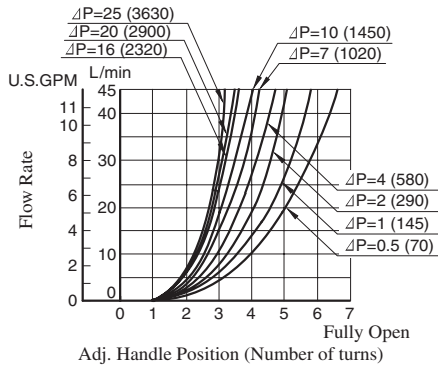
Note: For dimensions of the valve mounting surface, see the dimensional drawing (P.502) of the sub-plate used together.

Metred Flow vs Adjustment Handle Revolutions

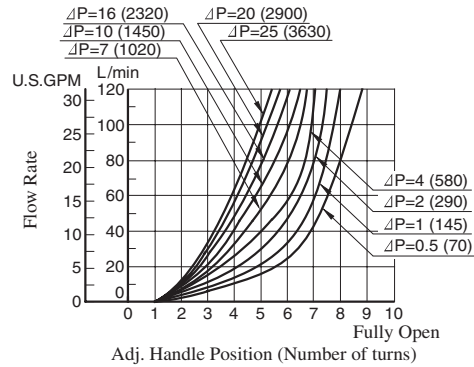
Hydraulic Fluid: Viscosity 30 mm²/s (141 SSU), Specific Gravity 0.850

ΔP : Differential Pressure MPa (PSI)

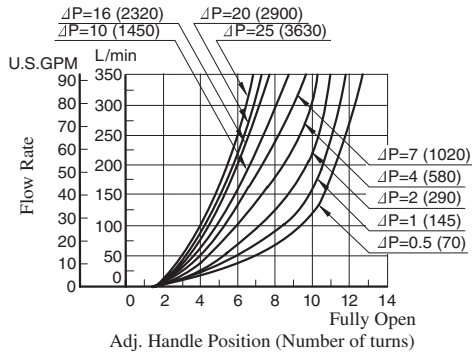
SRT SRG-03, SRCT SRCG-03



SRT SRG-06, SRCT SRCG-06



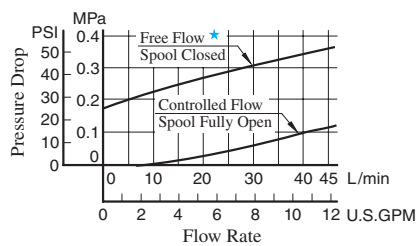
SRT SRG-10, SRCT SRCG-10



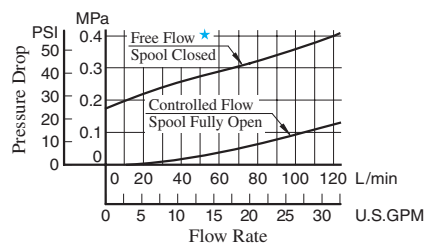
Pressure Drop

Hydraulic Fluid: Viscosity 30 mm²/s (141 SSU), Specific Gravity 0.850

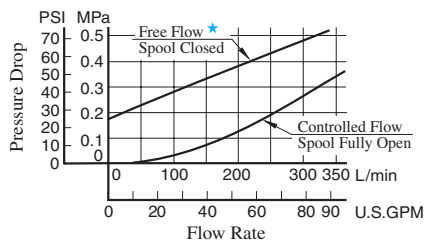
SRT SRG-03, SRCT SRCG-03



SRT SRG-06, SRCT SRCG-06



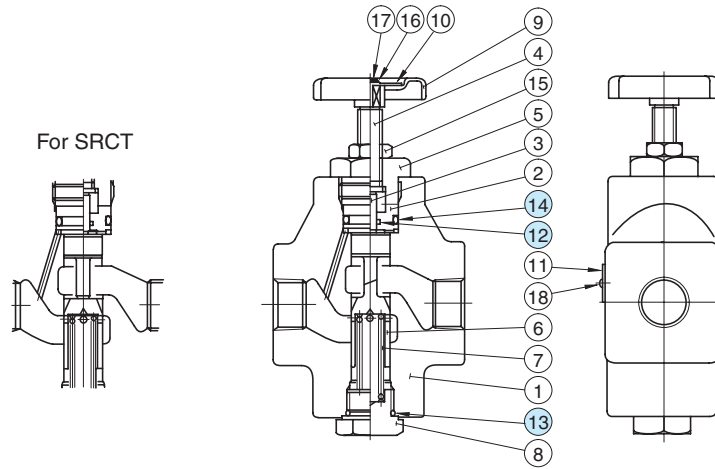
SRT SRG-10, SRCT SRCG-10



★ Applicable only for one way restrictor (Model No. SRC*)

■ List of seals

SRT/SRCT-03-50/5080/5090
 SRT/SRCT-06-50/5080/5090
 SRT/SRCT-10-50/5080/5090



● List of Seals

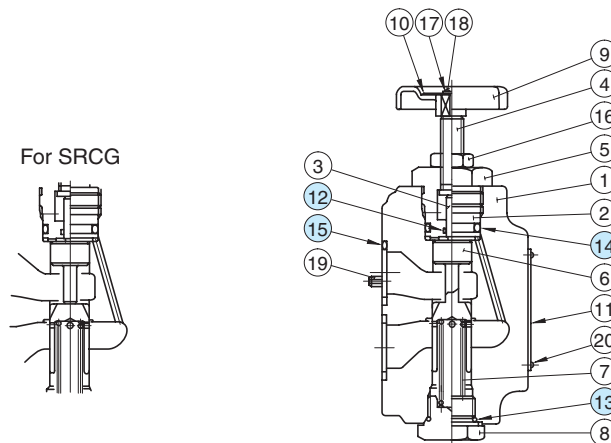
Item	Name of Parts	Part Numbers			Qty.
		SRT SRCT-03	SRT SRCT-06	SRT SRCT-10	
12	O-Ring	SO-NB-P7	SO-NB-P7	SO-NB-P7	1
13	O-Ring	SO-NB-P15	SO-NB-P21	SO-NB-P29	1
14	O-Ring	SO-NB-P20	SO-NB-P22.4	SO-NB-P36	1

● List of Seal Kits

Valve Model Numbers	Seal Kit Numbers
SRT/SRCT-03	KS-SRT-03-50
SRT/SRCT-06	KS-SRT-06-50
SRT/SRCT-10	KS-SRT-10-50

Note: When ordering the seals, please specify the seal kit number from the table right.

SRG/SRCG-03-50/5090
 SRG/SRCG-06-50/5090
 SRG/SRCG-10-50/5090



● List of Seals

Item	Name of Parts	Part Numbers			Qty.
		SRG SRCG-03	SRG SRCG-06	SRG SRCG-10	
12	O-Ring	SO-NB-P7	SO-NB-P7	SO-NB-P7	1
13	O-Ring	SO-NB-P15	SO-NB-P21	SO-NB-P29	1
14	O-Ring	SO-NB-P20	SO-NB-P22.4	SO-NB-P36	1
15	O-Ring	SO-NB-P18	SO-NB-P28	SO-NB-P32	2

● List of Seal Kits

Valve Model Numbers	Seal Kit Numbers
SRG/SRCG-03	KS-SRG-03-50
SRG/SRCG-06	KS-SRG-06-50
SRG/SRCG-10	KS-SRG-10-50

Note: When ordering the seals, please specify the seal kit number from the table right.