Valve Specification

This valve can be used for switching the flow path applications or for diverting and mixing*2. A spring is built into the seal part of the stem to automatically correct volume changes due to packing wear, pressure, temperature, etc., thus realizing maintenance-free gland parts.

Specifications

Model	LR
Type	Flanged end horizontal three-way ball valve, L full-port
Structure	Floating ball valve
Fluid	Water, Oils, Gas, Steam*1, Chemicals
Application	Switching the flow path, Diverting and mixing*2
Max working pressure	1 MPa
Max allowable pressure	1.4 MPa

*1: For steam line use, specify the "ST" option. In this case, the O-ring material is resistant to steam FKM. *2: If the valve is used in the middle position, valve seat leakage.

Production range

Connection	JIS 10K RF Flanged end
Body material	SCS13A
Ball material	SCS13A
Seat material	Reinforced PTFE
Stem seal material	Reinforced PTFE + FKM*1 O-ring
Size	20A, 25A, 40A, 50A, 65A, 80A, 100A

NOTE Materials include equivalent.

Cv value and Range ability

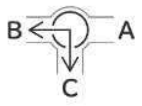
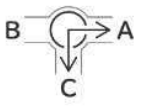
Size	20A	25A	40A	50A	65A	80A	100A
Cv value (Effective value)	24 (10)	40 (20)	100 (60)	170 (110)	240 (150)	380 (240)	680 (440)
Range ability	20 : 1						

Valve model code configuration

LR 1 T T P - 050

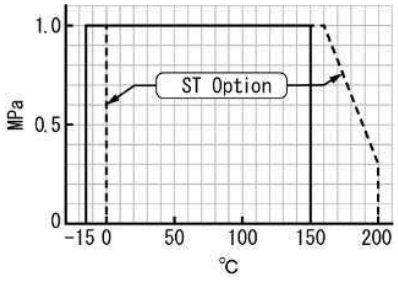
- 050 — Size — Enter three digits. ex. 50A is 050
- P — Seat material — Ⓟ: Reinforced PTFE
- T — Ball material — Ⓣ: SCS13A
- T — Body material — Ⓣ: SCS13A
- 1 — Connection — ①: JIS 10K RF Flanged end
- LR — Model

Flow paths

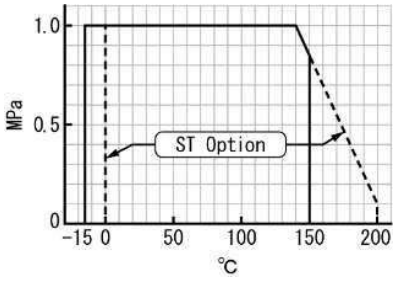
Position 1	Position 2
	

Note) If high pressure is applied from the closed port, leakage may occur to the fluid path.

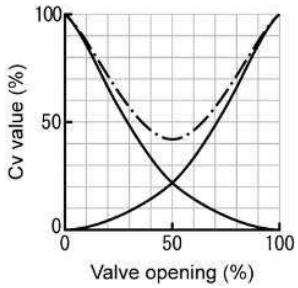
Pressure & Temperature rating (20 to 50A)



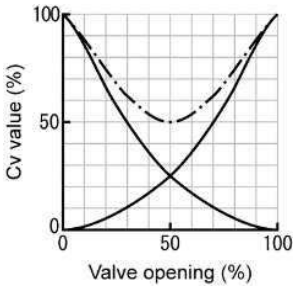
Pressure & Temperature rating (65 to 100A)



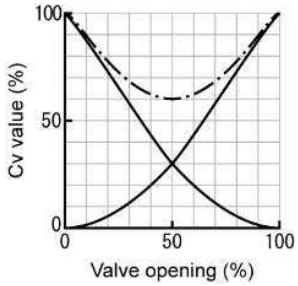
Flow characteristic (20A)



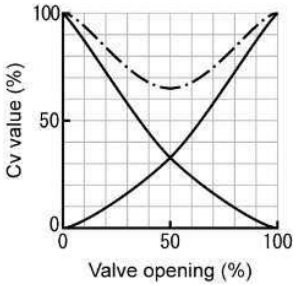
Flow characteristic (25A)



Flow characteristic (40A)



Flow characteristic (50 to 100A)



Valve Specification

This valve can be used for switching the flow path applications or for diverting and mixing*2. A spring is built into the seal part of the stem to automatically correct volume changes due to packing wear, pressure, temperature, etc., thus realizing maintenance-free gland parts.

Specifications

Model	TR
Type	Flanged end vertical three-way ball valve, L full-port
Structure	Floating ball valve
Fluid	Water, Oils, Gas, Steam*1, Chemicals
Application	Switching the flow path, Diverting and mixing*2
Max working pressure	1 MPa
Max allowable pressure	1.4 MPa

*1: For steam line use, specify the "ST" option. In this case, the O-ring material is resistant to steam FKM. *2: If the valve is used in the middle position, valve seat leakage.

Production range

Connection	JIS 10K RF Flanged end
Body material	SCS13A
Ball material	SCS13A
Seat material	Reinforced PTFE
Stem seal material	Reinforced PTFE + FKM*1 O-ring
Size	20A, 25A, 40A, 50A, 65A, 80A, 100A

NOTE Materials include equivalent.

Cv value and Range ability

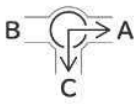
Size	20A	25A	40A	50A	65A	80A	100A
Cv value (Effective value)	24 (10)	40 (20)	100 (60)	170 (110)	240 (150)	380 (240)	680 (440)
Range ability	20 : 1						

Valve model code configuration

TR 1 T T P - 050

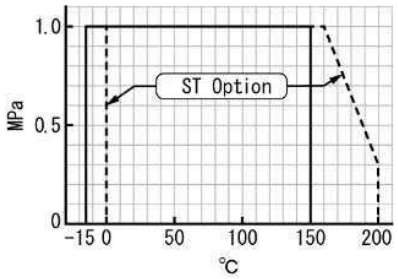
Size	Enter three digits. ex. 50A is 050
Seat material	Ⓟ: Reinforced PTFE
Ball material	Ⓣ: SCS13A
Body material	Ⓣ: SCS13A
Connection	①: JIS 10K Flanged end
Model	

Flow way

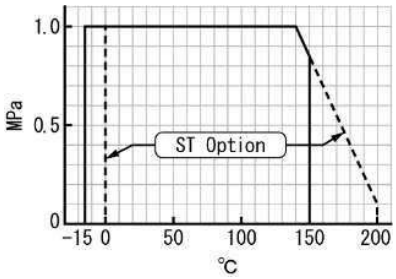
Position 1	Position 2
	

Note) If high pressure is applied from the closed port, leakage may occur to the fluid path.

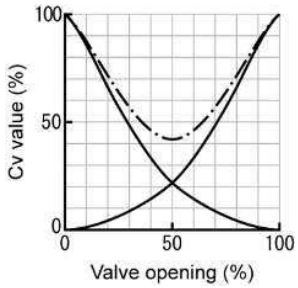
Pressure & Temperature rating (20 to 50A)



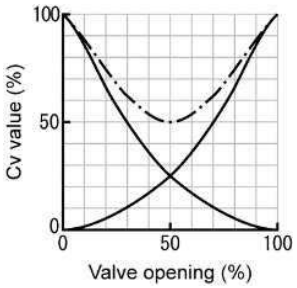
Pressure & Temperature rating (65 to 100A)



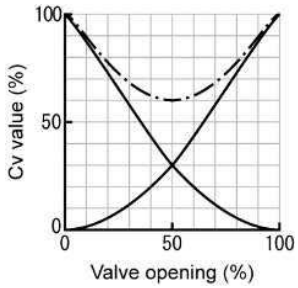
Flow characteristic (20A)



Flow characteristic (25A)



Flow characteristic (40A)



Flow characteristic (50 to 100A)