



Brake Modular Valve

5.2 to 7.9 gpm
 115 to 3045, 3625 psi

Features

This modular pressure control valve prevents abnormal pressure when the actuator stops, enabling smooth stops.

Wide ranging applicability Maximum Operating Pressure: 3625 psi.

Pressure Adjustment Range: 115 to 3045, 3625 psi.

Specifications

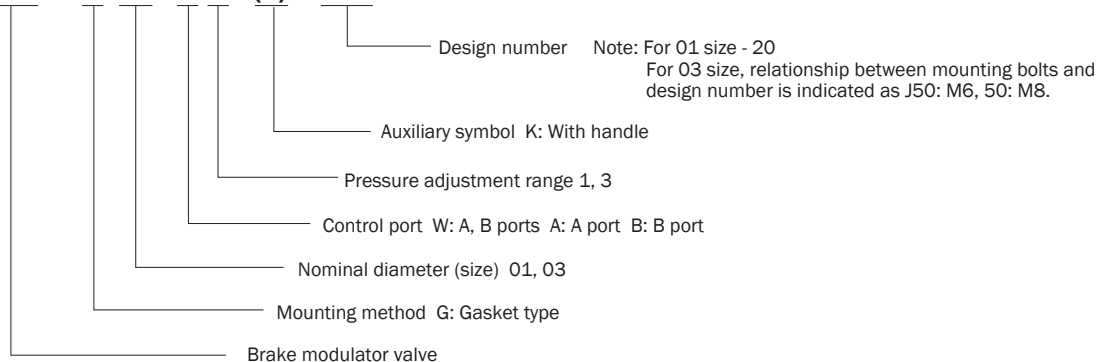
Model No.	Nominal Diameter (Size)	Maximum Working Pressure psi	Maximum Flow Rate gpm	Pressure Adjustment Range psi	Weight lbs	Gasket Surface Dimensions
ORO-G01-W1-20 W3	1/8	3625	5.2	115 to 1000 500 to 3045	3.3	ISO 4401-03-02-0-94
ORO-G01-A1-20 A3				115 to 1000 500 to 3045	3.0	
ORO-G01-B1-20 B3				115 to 1000 500 to 3045	3.0	
ORO-G03-W1-J50 W3	3/8	3625	7.9	115 to 1000 500 to 3045	10.5	ISO 4401-05-04-0-94
ORO-G03-A1-J50 A3				115 to 1000 500 to 3045	8.8	
ORO-G03-B1-J50 B3				115 to 1000 500 to 3045	8.8	

• Handling

- The pressure adjustment range is expressed using cracking pressure.
- For use as a safety valve, use a pressure override that is higher than the required circuit pressure.
- Note that a sub plate and installation bolts are not included. See pages H4 and F87-89 if these items are required.

Understanding Model Numbers

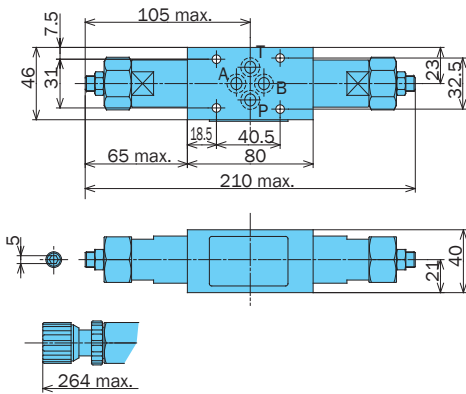
ORO - G 03 - A 3 - (K) - J50



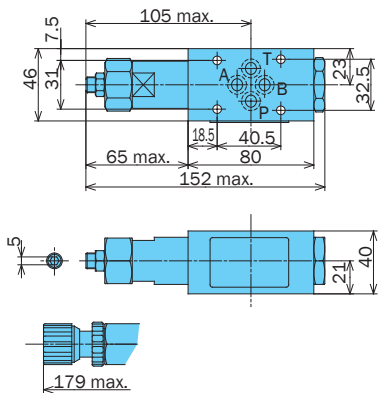
Specifications

Note: Pressure is increased by clockwise (rightward) rotation of the adjusting screw (bolt), and decreased by counterclockwise (leftward) rotation.

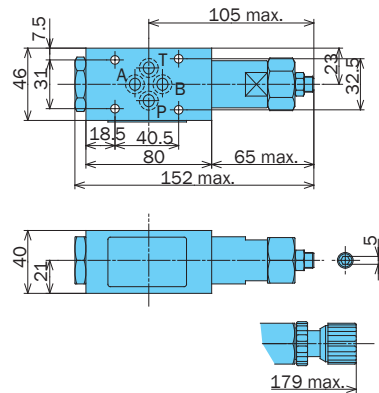
ORO-G01-W*-20



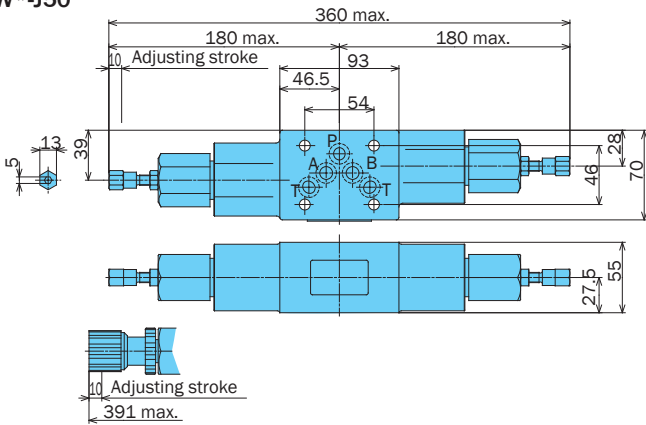
ORO-G01-A*-20



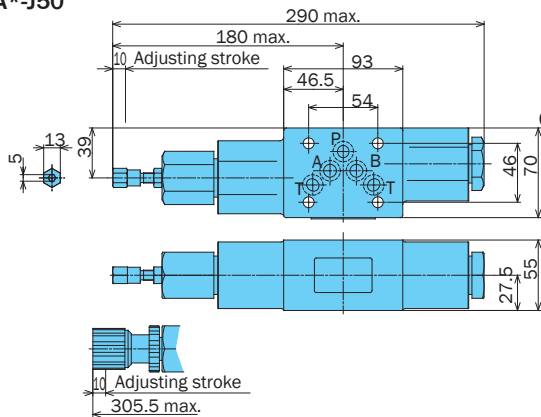
ORO-G01-B*-20



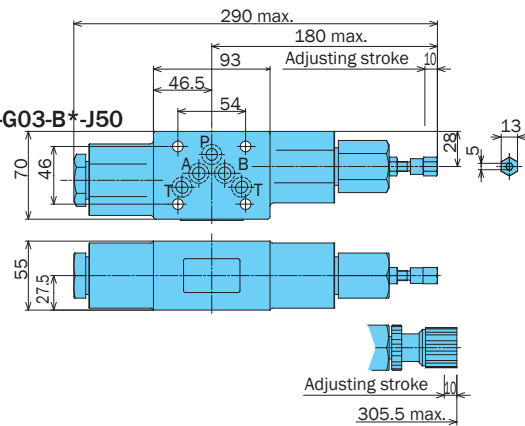
ORO-G03-W*-J50



ORO-G03-A*-J50



ORO-G03-B*-J50

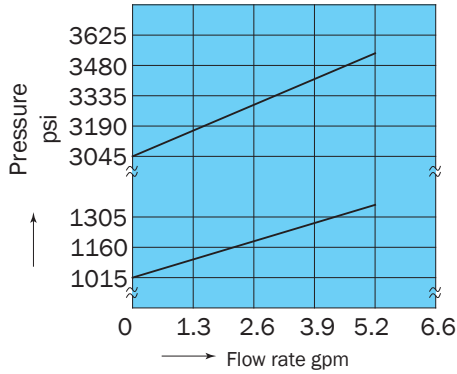


Performance Curves

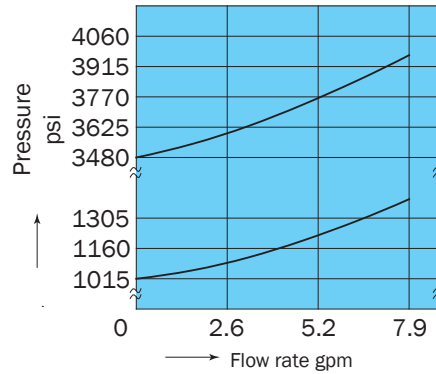
Differential Hydraulic Fluid Viscosity 32 centistokes

Pressure - Flow Rate Characteristics

ORO-G01-**-20

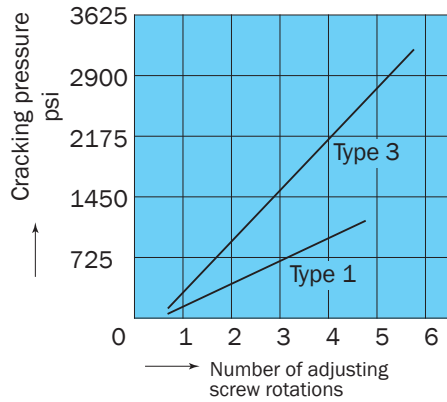


ORO-G03-**-J50

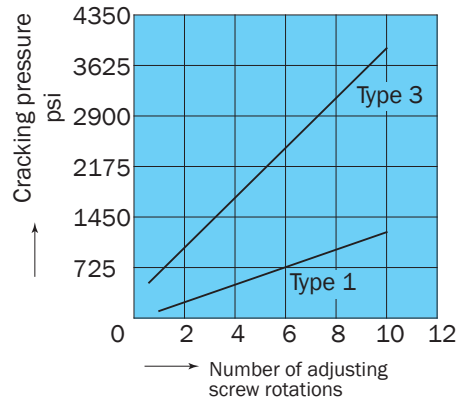


Number of Adjusting Screw Rotations - Pressure Characteristics

ORO-G01-**-20

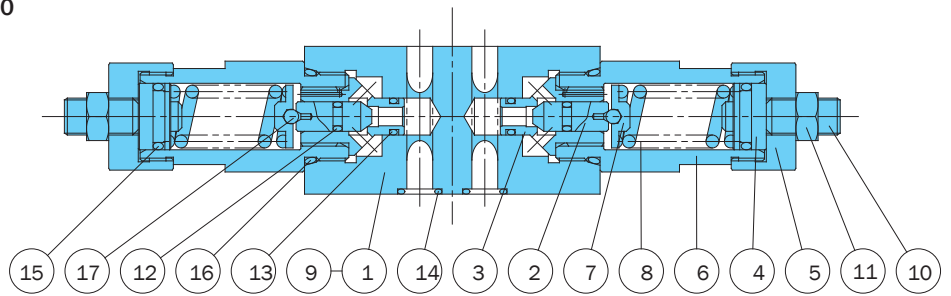


ORO-G03-**-J50



Cross-sectional Drawing

ORO-G01-W*-20

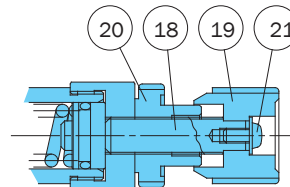


Part No.	Part Name
1	Body
2	Poppet
3	Seat
4	Plunger
5	Bushing
6	Retainer
7	Guide
8	Spring
9	Plate
10	Screw
11	Nut
12	O-ring
13	O-ring
14	O-ring
15	O-ring
16	O-ring
17	Ball
18	Screw
19	Knob
20	Nut
21	Screw

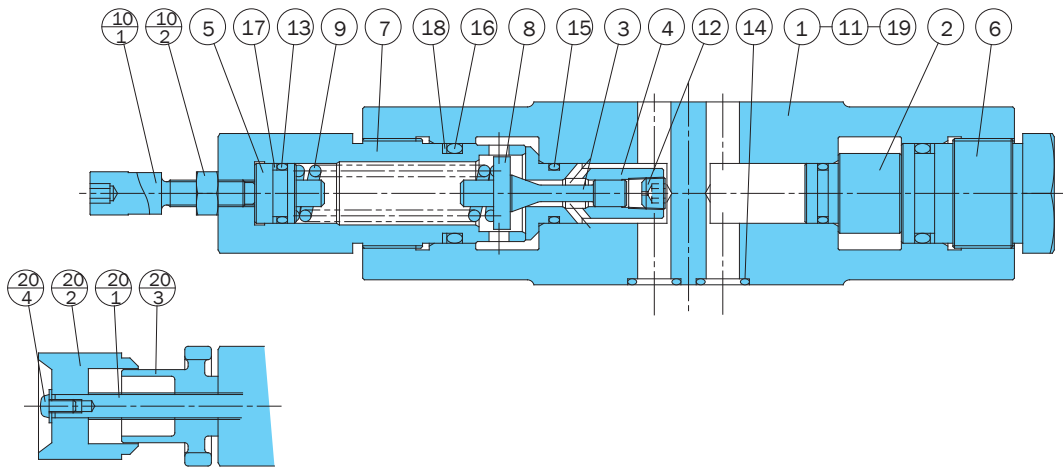
Seal Part List (Kit Model Number BRBS-01R0*)

Part No.	Part Name	Part Number	Qty		
			W	A	B
12	O-ring	1A-P5	2	1	1
13	O-ring	1B-P7	2	2	2
14	O-ring	1B-P9	4	4	4
15	O-ring	1B-P14	2	1	1
16	O-ring	1B-P22	2	2	2

Note: 1. O-ring 1A/B-**-** refers to JIS B2401-1A/B.
2. Specify W, A, or B for the asterisk (*) in the kit model number.



ORO-G03-A*-J50



Part No.	Part Name
1	Body
2	Plug
3	Poppet
4	Seat
5	Plunger
6	Bushing
7	Retainer
8	Guide
9	Spring
10	Screw kit
10 ₁	Screw
10 ₂	Nut
11	Plate
12	Orifice
13	O-ring
14	O-ring
15	O-ring
16	O-ring
17	Backup ring
18	Backup ring
19	Pin
20	Handle kit
20 ₁	Screw
20 ₂	Knob
20 ₃	Nut
20 ₄	Screw

Seal Part List (Kit Model Number BRES-03R0*)

Part No.	Part Name	Part Number	Q'ty		
			W	A	B
13	O-ring	1A-P14	2	1	1
14	O-ring	AS568-014(Hs90)	5	5	5
15	O-ring	1B-P14	2	2	2
16	O-ring	1B-P24	2	2	2
17	Backup ring	T2-P14	2	1	1
18	Backup ring	T2-P24	2	2	2

- Note: 1. O-ring 1A/B-** refers to JIS B2401-1A/B.
 2. Backup ring indicates JIS B2407-T2-**.
 3. Specify W, A, or B for the asterisk (*) in the kit model number.