

High-pressure M35 Series

50 to 300 ℓ /min
35MPa

Overview

The High-Pressure M35 Series responds to the needs of high density in a variety of fields by enabling higher density hydraulic systems.

This valve incorporates NACHI original flow control technology and heat treatment, plus precision machining to create high-performance valves with the following features:

- High-pressure 35MPa
- High reliability and compact design

- Press Machinery
Press brakes, punching presses
- Underground Machinery
Shield tunneling machinery, removal systems, etc.
- Construction Machinery
From mini vehicles to 6 to 10-ton vehicles, shovels, etc.
- Environmental Related
Granulators, filter presses, scrap presses
- Testing Equipment
Impulse, durability, performance testers, etc.

• M35 Series Modular Valve (O * H)

By integrating multiple hydraulic devices, this valve can be used when configuring hydraulic circuits even in the high-pressure range. See page D-12 for information about the 04 size.

This series consists of pressure, flow rate, and flow direction control valves.

Maximum Working Pressure : 35MPa{357kgf/cm²}
Maximum Flow Rate : to 300 ℓ /min

• M35 Series Non-leak Solenoid Valve (SNH)

A NACHI original structure is used to configure this wet-type shutoff valve that isolates internal leaks. Installation conforms to ISO4401 standards, so it can be used in a wide range of applications in combination with modular valves. For more information, see page E-50.

Maximum Working Pressure : 35MPa{357kgf/cm²}
Maximum Flow Rate : to 100 ℓ /min

• M35 Series Related Components

- High-response proportional flow control valve
Maximum Working Pressure : 31.4MPa{320kgf/cm²}
Maximum Flow Rate : to 350 ℓ /min

• M35 Series Industry Specific Components

- Jack Valve
Maximum Working Pressure : 35MPa{357kgf/cm²}
Maximum Flow Rate : to 100 ℓ /min
- Logic Cartridge Mono Block
Maximum Working Pressure : 35MPa{357kgf/cm²}
Maximum Flow Rate : to 7000 ℓ /min

• M35 Series Industry Specific Components

- Hydraulic accessories (stop valves, filters, accumulators, hoses, etc.); NACHI-MOOG servo level

Specifications

M35 Series Modular Valve

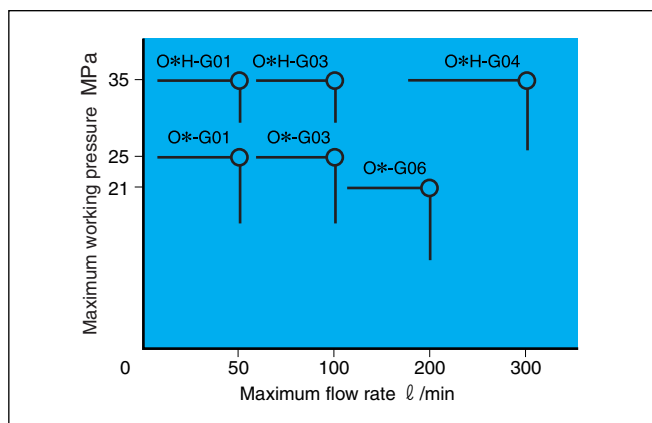
Size	Maximum Working Pressure MPa{kgf/cm ² }	Maximum Flow Rate ℓ /min	Number of Integration Levels
01	35{357}	50	to 3
03		100	
04		300	

Dimensions

Size	Height (mm)	Width (mm)	Remarks
01	40	46	Same dimensions as the M25 Series
03	55	70	
04	70	91	

Note) M8 installation bolts only are used for the 03 size.

Modular Valve Product Series



01 03 Size Specifications

Type	Name	Valve Model Number	Maximum Operating Power	Maximum Flow Rate	Pressure Adjustment Range (Cracking Pressure) MPa{kgf/cm ² }	JIS Symbol
Solenoid Valves	Solenoid Valves	SA-G**.*-31(21) SS-G**.*-31(22)				
Pressure Control Valves	Relief Valves (Balance Type)	ORH-G01-P*-10 -W*-	35MPa {357kgf/cm ² }	G01 40 l /min	3:3.5 to 25MPa{35.7 to 255kgf/cm ² } 5.7 to 35MPa{71.4 to 357kgf/cm ² }	
		ORH-G03-P*-10 -W*-		G03 80 l /min	P: P (-T) port W: AB (-T) port	
	Relief Valves (Direct Type)	ORH-G01-DW*-10 -DA*- -DB*-		G01 20 l /min	3:3.5 to 25MPa{35.7 to 255kgf/cm ² } 5.7 to 35MPa{71.4 to 357kgf/cm ² }	
ORH-G03-DW*-10 -DA*- -DB*-	G03 30 l /min	DW: AB (-T) port DA: A (-T) port DB: B (-T) port				
Reducing Valve	Reducing Valve	OGH-G01-P*-10 -B*-	G01 40 l /min	3:3.5 to 25MPa{35.7 to 255kgf/cm ² }		
		OGH-G03-P*(B)-10 -B*-	G03 80 l /min	P: P port B: B port		
Flow Regulator Valves	Flow Regulator Valves	OYH-G01-W-Y-10 -A-Y- -B-Y- -W-X- -A-X- -B-X-	35MPa {357kgf/cm ² }	G01 50 l /min	Y: Meter out X: Meter in W: AB port A: A port B: B port	
		OYH-G03-W-Y-10 -A-Y- -B-Y- -W-X- -A-X- -B-X-		G03 100 l /min		
Check Valves	Check Valves	OCH-G01-P*-10 -T*-	G01 50 l /min	1:0.04MPa{0.4kgf/cm ² } 2:0.35MPa{3.6kgf/cm ² } 3:0.5 MPa{5.1kgf/cm ² }		
		OCH-G03-P*-10 -T*-	G03 100 l /min	P: P port T: T port		
Pilot Check Valves	Pilot Check Valves	OPH-G01-W*(F)-10 -A*- -B*-	G01 50 l /min	1:0.2MPa{2.0kgf/cm ² } 2:0.5MPa{5.1kgf/cm ² }		
		OPH-G03-W*(D)-10 -A*- -B*-	G03 100 l /min	W: AB port A: A port B: B port D: Direct type (no small valve, G03 only) F: Decomp type (with small valve, G01 only)		

ORH : Relief valve



OGH : Reducing valve



OPH : Pilot check valve



D

Modular Valves