

Intermediate pressure gas combination valve

GHV Series

- NC (normally closed)
- City gas/LPG
- Port size: Rp1, Rp1¹/₄, Rp1¹/₂, Rp2

Gas boilers

Industrial furnaces

Gas absorption water coolers/heaters



Features

FGB/G Integrated structure/space-saving

- Compact integration of two solenoid valves, including a governor function Face to face 1/3 (50A, compared to CKD conventional products) Supports JIS B 8415 double cutoff with a single unit, realizing space saving of equipment/systems.
- Wiring and piping work-hour reduction (solenoid valve is simultaneous energizing type) By integrating double cutoff, wiring and piping hours can be reduced by one machine worth.
- Up to intermediate pressure (up to 50kPa) allowed
- AB Selectable variations

EXA

FWD

HNB/G

USB/G FAB/G

FVB

FWB/G

FHB

FLB

AG

AP/

AD APK/ ADK

DryAir

EX-XPLNprf

- Solenoid valve with built-in governor + solenoid valve
- Solenoid valve + solenoid valve
- Solenoid valve + solenoid valve (slow open)
- Option
- With closing confirmation switch (mounted to secondary side solenoid valve) Port size change is easy
- Port size can be changed by replacing the flange from 25A to 50A
- ISO23551-1, ISO23551-2 compliant

Specifications

Drying furnaces System example

Applications

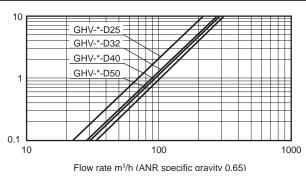
XPLNprf	Specifications												
HVB/	14	GHV-G				GHV-N				GHV-L			
HVL	ltem	-D25	-D32	-D40	-D50	-D25	-D32	-D40	-D50	-D25	-D32	-D40	-D50
S ∜ B/	Working fluid		City gas/LPG										
NAB	Working pressure kPa		0 to 50										
LAD/	Secondary pressure kPa	0.4 to 2.0											
NAD Water-	Flow rate $\frac{\text{Specific gravity of city gas 0.65}}{\Delta P = 0.25 \text{ kPa}}$ m ³ /h (ANR)	35	43.7	47.5	51	35	43.7	47.5	51	35	43.7	47.5	51
Rela	Rated voltage V	100 AC ^{+10%} _{-15%} 200 AC ^{+10%} _{-15%}											
NP/NAP/	Frequency Hz		Common to 50 and 60										
NVP	Power consumption (apparent power) VA		80										
SNP	Ambient temperature °C		-15 to 70 (no freezing) (*1) -15 to 60 (no freezing)							g)			
	Closing time s		1.0 or less										
CHB/G	Frequency cycles/min.		10 or less					1 or less					
	Mounting orientation	Range of vertical direction with the coil on top to horizontal direction with the coil horizontal. (vertical piping installation available)											
MXB/G	Connection Screw-in (Rp)												
Other	Port size	1	1 ¹ / ₄	1 ¹ / ₂	2	1	1 ¹ / ₄	1 ¹ / ₂	2	1	1 ¹ / ₄	1 ¹ / ₂	2
valves	Weight kg 6.1 5.5 5.8					.8							
SWD/	Proof pressure kPa 75												
MWD	Opening time s	-				1 or less				Approx. 10			
DustColl	Start gas adjustment %							0 to 70					
	Re-energizing intermission time s						5 and over						
CVE/	Degree of protection	ree of protection IP 54 or equiv.											
CVSE	*1: When type with closing confirmation switch is selected, -15 to 60 (no freezing)												
CCH/ CPE/D	Flow characteristics												

Flow characteristics

CKD

LifeSci

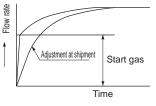
Gas-Combus Auto-Water Outdoor SpecFld Custom Ending



Reference: conversion coefficient Converted flow rate = (flow rate in table) x (coefficient)

Gas	City gas (13 A)	Propane	Butane	
Specific gravity (air = 1)	0.65	1.6	2.0	
Coefficient	1.0	0.63	0.57	

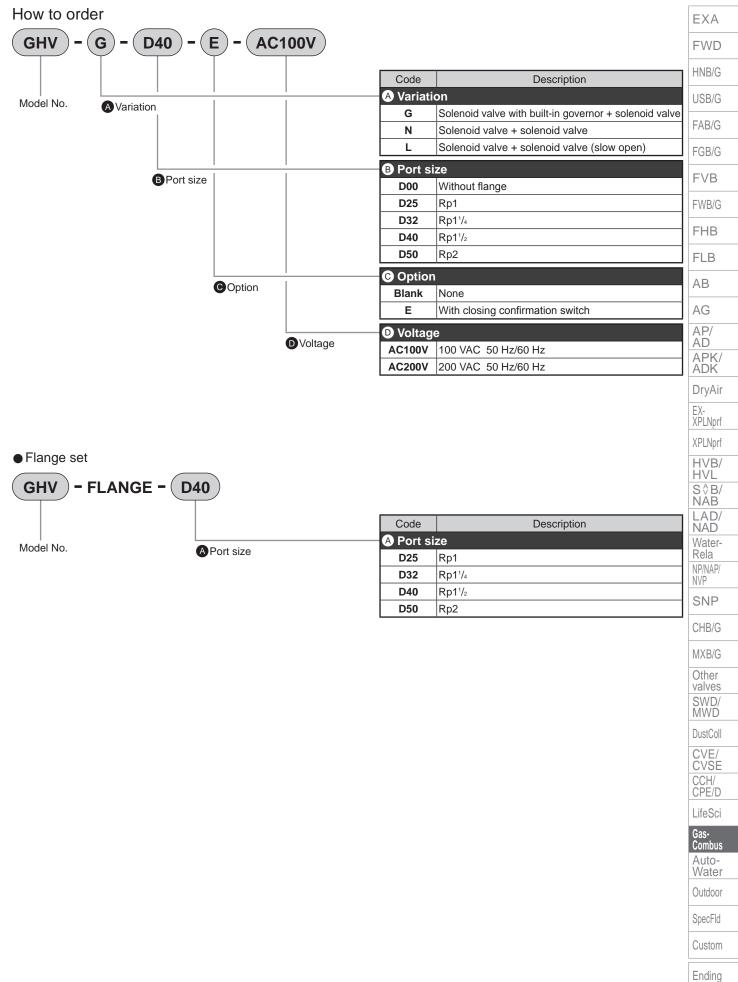
Opening characteristics (GHV-L)



Pressure drop kPa

GHV Series

How to order

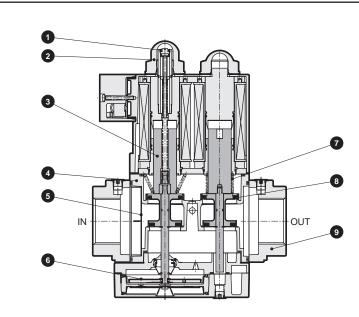


GHV Series

EXA

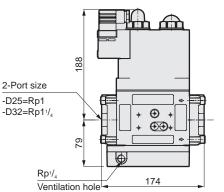
FWD

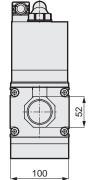
Internal structure and parts list



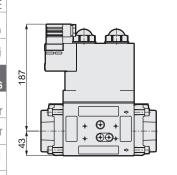
Dimensions

Solenoid valve with built-in governor + solenoid valve
GHV-G-D25/D32

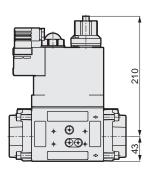




Solenoid valve +
solenoid valve
GHV-N-D25 to D50



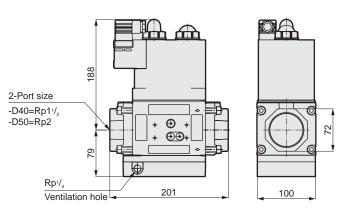
 Solenoid valve + solenoid valve (Slow open)
GHV-L-D25 to D50



Cannot be disassembled

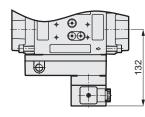
No.	Part name	Material
1	Pressure adjustment screw	Stainless steel
2	Governor cap	Resin
3	Plunger	Steel
4	Body	Aluminum die-casting
5	Strainer	Resin
6	Diaphragm	Nitrile rubber
7	Spring	Stainless steel, spring steel
8	Valve	Nitrile rubber/aluminum die-casting
9	Flange	Aluminum die-casting

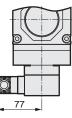
• GHV-G-D40/D50



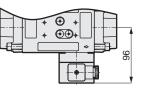
Optional dimensions

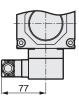
Closing confirmation switch
GHV-G-D25 to D50-E





● GHV- [№]-D25 to D50-E





CKD

HNB/G USB/G FAB/G FGB/G FVB FWB/G FHB FLB AB AG AP/ AD APK/ ADK DryAir EX-XPLNprf XPLNprf HVB/ HVL S ∜ B/ NAB LAD/ NAD Water-Rela NP/NAP/ NVP SNP CHB/G MXB/G Other valves SWD/ MWD DustColl CVE/ CVSE CCH/ CPE/D LifeSci Gas-Combus Auto-Water Outdoor SpecFld Custom Ending 982

GHV Series

EXA FWD HNB/G USB/G

FAB/G FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/

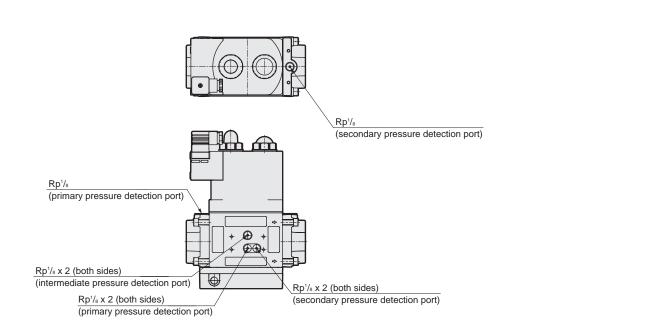
AD APK/ ADK

DryAir

EX-XPLNprf HVB/ HVL S © B/ NAB LAD/ NAD Water-Rela NP/NAP/ NVP SNP CHB/G MXB/G Other valves SWD/ MWD

Pressure detection port layout drawing

Pressure detection port layout drawing



Ending

DustColl CVE/ CVSE CCH/ CPE/D

LifeSci

Gas-Combus Auto-Water Outdoor SpecFld Custom