

## Dry Fine System Components Selection guide [Components for process gases] \* Refer to Intro Pages 7 to 8 of High Vacuum Components Selection Guide.

	Model No.	Working fluid	Connection	0	Cv	0.2	0.3	0.4	0.5 	0.6 0.7 0.8 0.9 1.0	Page
Air operated valve	LGD12 · LGD22 · Metal diaphragm structure		1/4" JXR Male fitting or equiv. 1/4" JXR Female fitting or equiv. 1/4" Double barbed fitting				0.3	•	·		P.4
			1/2" JXR Male fitting or equiv. 1/2" JXR Female fitting or equiv. 3/8" Double barbed fitting 1/2" Double barbed fitting							● 0.7 ● 0.7 ● 0.65 ● 0.7	
	AGD0½R  · Metal diaphragm structure · □21 compact		1/4" JXR Male fitting 1/4" JXRFemale fitting		0.1						P.14
	AGD1½R • AGD2½R • Metal diaphragm structure • Standard size	● Inert gas ● Process gas	1/4" JXR Male fitting 1/4" JXRFemale fitting 1/4" Double barbed fitting				0.3				P.16
			3/8" JXR Male fitting 3/8" JXRFemale fitting 3/8" Double barbed fitting							0.65	
	Other variation-compatible products *Contact CKD for other fittings.		Refer to the listed page for details.		0.1		0.3			0.65	P.18
	AGD0½R-HD AGD1½R-HD		1/4" JXR Male fitting 1/4" JXRFemale fitting		0.1						- P.44
	Trigit dulability		1/4" JXR Male fitting 1/4" JXRFemale fitting 1/4" Double barbed fitting				0.3				
	AGD1½R-HDF AGD2½R-HDF • For high temperature • High durability		1/4" JXR Male fitting 1/4" JXRFemale fitting 1/4" Double barbed fitting				0.3				P.46
			3/8" JXR Male fitting 3/8" JXRFemale fitting 3/8" Double barbed fitting							0.65	
	AGD21R-A · For high temperature · High durability		3/8" JXR Male fitting 3/8" JXRFemale fitting 3/8" Double barbed fitting					0.4*			P.48

\* 200°C, negative pressure

	Model No.	Working fluid	Connection	CV 0 0.1 0.2 0.3 0.4	0.5 0.6 0.7 0.8 0.9 1.0	Page		
Manual valve	LGD20  • Metal diaphragm structure  • Handle open/close	■ Inert gas ■ Process gas	1/4" JXR male fitting or equiv. 1/4" JXR female fitting or equiv. 1/4" Double barbed fitting	0.3		P.8		
	OGD20R  • Metal diaphragm structure • Handle open/close (90° snap action)  • Inert gas • Process ga  • Process ga  Other variation-compatible products		1/2" JXR male fitting or equiv. 1/2" JXR female fitting or equiv. 3/8" Double barbed fitting 1/2" Double barbed fitting		0.7			
			1/4" JXR male fitting 1/4" JXR female fitting 1/4" Double barbed fitting	0.3	0.3			
			3/8" JXR male fitting 3/8" JXR female fitting 3/8" Double barbed fitting					
			1/4" JXR male fitting 1/4" JXR female fitting 1/4" Double barbed fitting	0.3		- P.34		
			3/8" JXR male fitting 3/8" JXR female fitting 3/8" Double barbed fitting		0.65 •	1.0-1		
			Refer to the listed	0.3	P.36			
			page for details.		0.65	1.00		
	Model No.	Working fluid	Connection	Supply fluid pressure (MPa)	Achieved vacuum level (kPa(abs))	Page		
Other valves for process gas	VG  · Vacuum generator for process gas exhaust	● Inert gas ● Process gas	IN1/4" JXR male fitting VAC.1/4" JXR female fitting VENT3/8" JXR male fitting	0.4 to 0.6	13.3 or less	P.52		
)ther v	Flow rate adjusting valve     Piston check valve					P.54		
	Model No.	Working fluid	Connection	Max. working pressure (MPa)	Set pressure range (MPa)	Page		
Regulator	PGM	● Inert gas ● Process gas	1/4" JXR male fitting 1/4" JXR female fitting 1/4" JXR male→ female fitting 1/4" JXR male→ male fitting 1/4" JXR female→ male fitting Various integrated interfaces supported	1.0	+ 0.07 to 0.21 MPa (pressure range 30 V) 0 to 0.21 MPa (pressure range 30) 0 to 0.35 MPa (pressure range 50) 0 to 0.42 MPa (pressure range 60) 0 to 0.7 MPa (pressure range 100) + Pressure range in ( ) indicates psi.	P.56		
	ntegrated gas supply syster	m						
	Model No.	Seal connection	Size	Cv 0 0.1 0.2 0.3 0.4	0.5 0.6 0.7 0.8 0.9 1.0	Page		
supply system	IAGD5	●W seal	1.125"	0.1		P.68		
Integrated gas supply system	IAGD4	●W seal	1.5*	0.1		P.75		



## Dry Fine System Components Selection guide [High vacuumComponents]

Valve for high vacuum

Air operated valve	Model No.			Orifice: ømm	Voltage	Page
	AVB**7  ·Molded bellows  ·Aluminum body	● Vacuum ● Inert gas	Vacuum clamp fitting NW16 Vacuum clamp fitting NW25 Vacuum clamp fitting NW40 Vacuum clamp fitting NW50 Vacuum clamp fitting NW63 Vacuum clamp fitting NW80 Vacuum clamp fitting NW100 Vacuum clamp fitting NW160	ø17 ø24 ø39 ø48 ø68 ø80 ø100	_	P.92
	AVB**3 • Molded bellows • Stainless steel body	● Vacuum ● Inert gas	1/4" Tube Vacuum clamp fitting NW25 Vacuum clamp fitting NW40 Vacuum clamp fitting NW50 Vacuum clamp fitting NW80 Vacuum clamp fitting NW100	ø5 ø24 ø40 ø50 ø80 ø100	_	P.106
Manual valve	MVB*17  · Molded bellows  · Aluminum body	● Vacuum ● Inert gas	Vacuum clamp fitting NW16 Vacuum clamp fitting NW25 Vacuum clamp fitting NW40 Vacuum clamp fitting NW50	ø17 ø24 ø39 ø48	_	P.118
	MVB*0  Molded bellows  Stainless steel body	● Vacuum ● Inert gas	Vacuum clamp fitting NW25	ø24 ● ø40		P.120
	NVP*0  • Double O-ring shaft sealing method • Stainless steel body  [June 2023 end of prod_n]		Vacuum clamp fitting NW40 Vacuum clamp fitting NW50	ø50		P.122
Vacuum pressure control valves	IAVB  · Vacuum pressure control  · Molded bellows  · Aluminum body	● Vacuum ● Inert gas	Vacuum clamp fitting NW16 Vacuum clamp fitting NW25 Vacuum clamp fitting NW40 Vacuum clamp fitting NW50	ø17 ø24 ø43 ø48	_	P.128