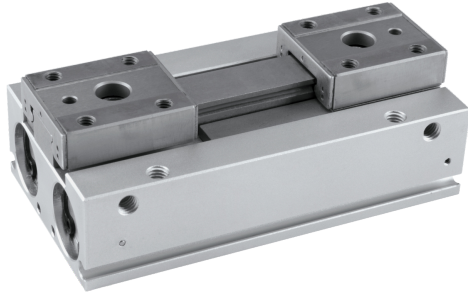


JHF2 Series

Compact Air Gripper



JHF2 Series (Ø8~Ø25)

Specification

Bore Size(mm)			8	12	16	20	25
Operation			Double Acting				
Working Medium			Air				
Operating Pressure Range(Mpa)			0.15~0.7		0.1~0.7		
Ambient And Fluid Temperature			-10~60°C(with no condensation)				
Repeatability(mm)			±0.05*				
Max. Operating Frequency(c.p.m)			Short stroke: Medium stroke: 120 Long stroke: 60				
Sensor Model	Contactless	2-Wire	JEL-07D				
		3-Wire NPN	JEL-07N				

*[Note] When cylinder side mount and not full stroken used, the minimum operating pressure can't be less than 0.4Mpa

Ordering Code



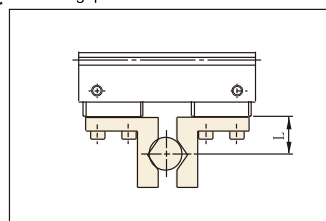
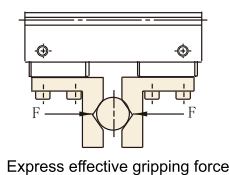
1 2/π	2 Bore Size	3 Double Acting	4 Stroke		5 Body Option	
2/π	Bore size	Double acting	Nil	Short stroke	Body option	
			1	Medium stroke	Nil	Axial piping type
			2	Long stroke	R	Side piping type

[Note] Sensor model please refer to P173 for the specific ordering code.

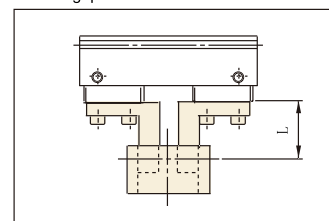
Operation	Model	Bore Size (mm)	Gripping Force Effective Gripping Force Per Finger	Opening/Closing Stroke (Both Sides) (mm)	Weight	Unobstructed Capacity (cm ³)	
						Finger Open Side	Finger Close Side
Difunctional	JHF2-8D	8	19	8	65	0.7	0.6
	JHF2-8D1			16	85	1.1	1.0
	JHF2-8D2			32	120	2.0	1.9
	JHF2-12D	12	48	12	155	1.9	1.6
	JHF2-12D1			24	190	3.3	3.0
	JHF2-12D2			48	275	6.1	5.8
	JHF2-16D	16	90	16	350	4.9	4.1
	JHF2-16D1			32	445	8.2	7.4
	JHF2-16D2			64	650	14.9	14.0
	JHF2-20D	20	141	20	645	8.47	7.3
	JHF2-20D1			40	850	15.1	13.7
	JHF2-20D2			80	1225	28.0	26.6
	JHF2-25D	25	236	60	1650	30.0	27.3

*[Note] At the pressure of 0.5MPa when gripping point L is 20mm.

Effective Gripping Force



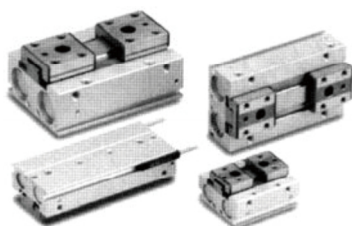
Internal grip



Specifications/ Model Bore

Model	Bore Size (mm)	Operation	Fuild	Operating Pressure RangeMpa (Mpa)	Ambient And Fluid Temperature (°C)	Repeatability (mm)	Max. Operating Frequency (c.p.m)	Gripping Force (N)	Opening/ Closing Stroke (mm)	Sensor Model
JHF2-8D	8	Double acting	Air	0.15~0.7	-10~60 (with no condensation)	±0.05	120	19	8	JEL-07D
JHF2-8D1							120		16	
JHF2-8D2							60		32	
JHF2-12D	12			0.1~0.7			120	48	12	
JHF2-12D1							120		24	
JHF2-12D2							60		48	
JHF2-16D	16						120	90	16	
JHF2-16D1							120		32	
JHF2-16D2							60		64	
JHF2-20D	20						120	141	20	
JHF2-20D1							120		40	
JHF2-20D2							60		80	
JHF2-25D	25			120			236	60		

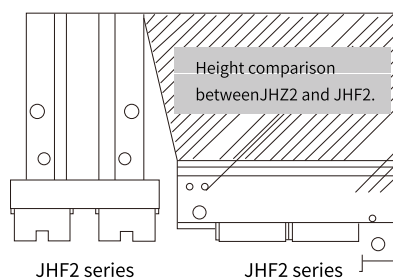
[Note] At the pressure of 0.5MPa when gripping point L is 10mm.



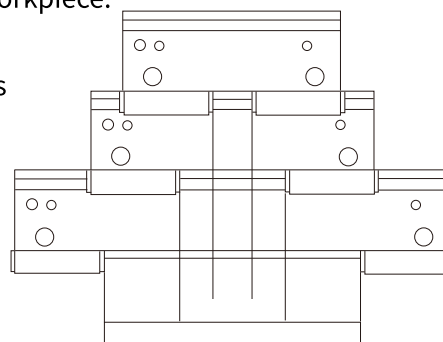
- Space-saving design.
- Strong gripping force.
- Centralized wiring and piping.
- Three standard stroke lengths: short/medium/long.

[Note] JHF2-25D only have short stroke

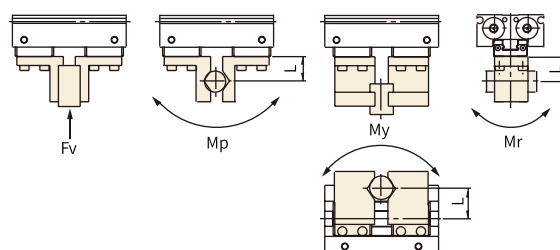
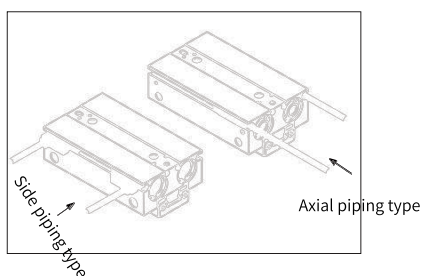
► Much shorter than JHZ2 series



► Standard stroke lengths for each bore size. Stroke can be selected to suit the workpiece.



► Centralized wiring and piping are possible.



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

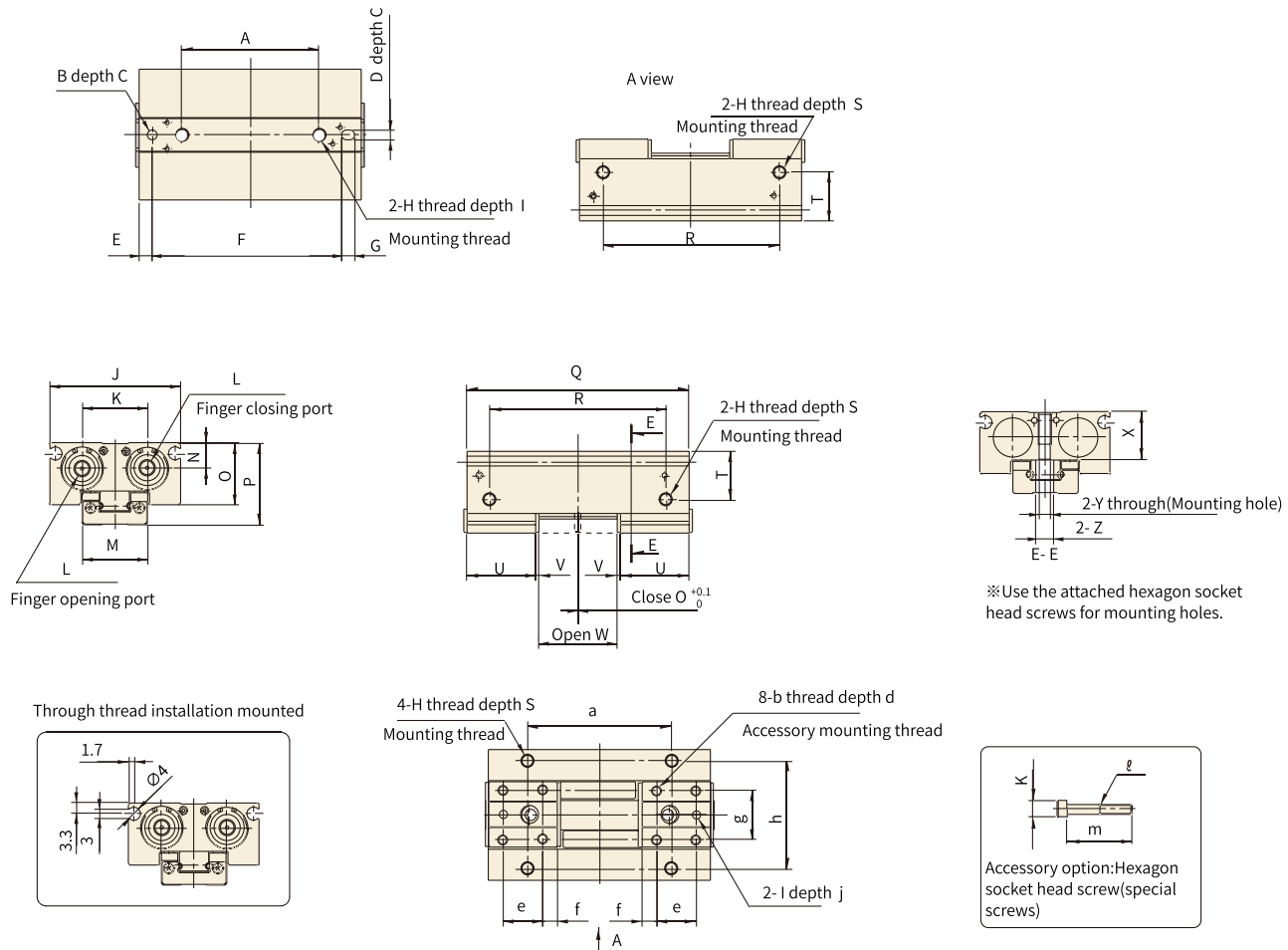
Sensor

Accessory option: Hexagon socket head screw (special screws)

[Note]JHF2-12D uses mounting thread M4×0.7 and the depth is 5mm.

Overall Dimension

- JHF2-12D1 16D 16D1 20D 20D1



Dimension

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
JHF2-12D1	42	$\varnothing 3H9^{+0.030}_0$	3	$\varnothing 3H9^{+0.025}_0$	4	58	4	M4x 0.7	10	40	20	M5x 0.8	$20^{0}_{-0.1}$	7.7	19	25	68	54	5
JHF2-16D	38	$\varnothing 4H9^{+0.030}_0$	3	$\varnothing 4H9^{+0.030}_0$	6	57.5	5	M5x 0.8	12	50	26	M5x 0.8	$27^{0}_{-0.1}$	10.6	24	33	72	52	5.5
JHF2-16D1	60	$\varnothing 4H9^{+0.030}_0$	3	$\varnothing 4H9^{+0.030}_0$	6	79.5	5	M5x 0.8	12	50	26	M5x 0.8	$27^{0}_{-0.1}$	10.6	24	33	94	74	5.5
JHF2-20D	38	$\varnothing 5H9^{+0.030}_0$	4	$\varnothing 5H9^{+0.030}_0$	6	71	6	M6x 1	15	62	33	M5x 0.8	$32^{0}_{-0.1}$	13	30	41	86	56	6
JHF2-20D1	66	$\varnothing 5H9^{+0.030}_0$	4	$\varnothing 5H9^{+0.030}_0$	6	99	6	M6x 1	15	62	33	M5x 0.8	$32^{0}_{-0.1}$	13	30	41	114	84	6

Model	T	U	V	W	X	Y	Z	a	b	d	e	f	g	h	i	j	k	f	m
JHF2-12D1	15	21	1	24 $\pm$ 1	14.8	Ø3.4	Ø5.5	44	M3 x 0.5	4	12	4.5	15	33	Ø2.5H9 ^{+0.025} ₀	2.5	Ø5	M3x 0.5	20
JHF2-16D	20	25	1.2	16 $\pm$ 1	20	Ø4.3	Ø7.5	36	M4 x 0.7	4	15	5	20	43	Ø3H9 ^{+0.025} ₀	3	-	-	-
JHF2-16D1	20	29	1.2	32 $\pm$ 1	20	Ø4.3	Ø7.5	58	M4 x 0.7	4	18	5.5	20	43	Ø3H9 ^{+0.025} ₀	3	-	-	-
JHF2-20D	25	31	1.2	20 $\pm$ 1	25	Ø5.2	Ø10	40	M4 x 0.7	4	16	7.5	24	52	Ø3H9 ^{+0.025} ₀	3	-	-	-
JHF2-20D1	25	36	1.2	40 $\pm$ 1	25	Ø5.2	Ø10	68	M4 x 0.7	4	20	8	24	52	Ø3H9 ^{+0.025} ₀	3	-	-	-

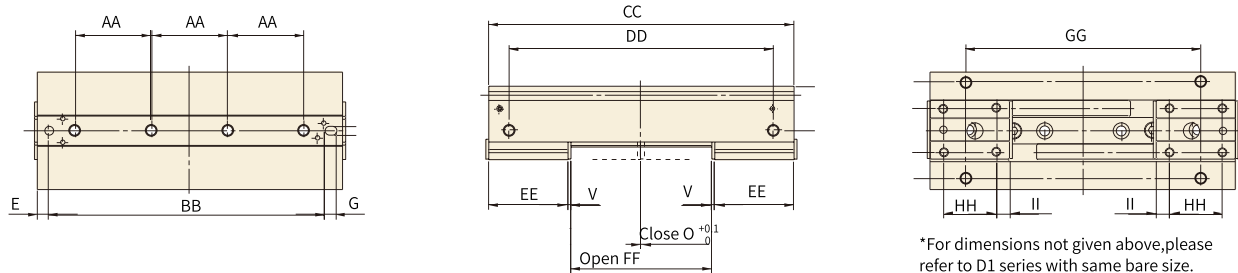
JHF2 Series

Compact Air Gripper



Overall Dimension

JHF2-8D2 12D2 16D2 20D2



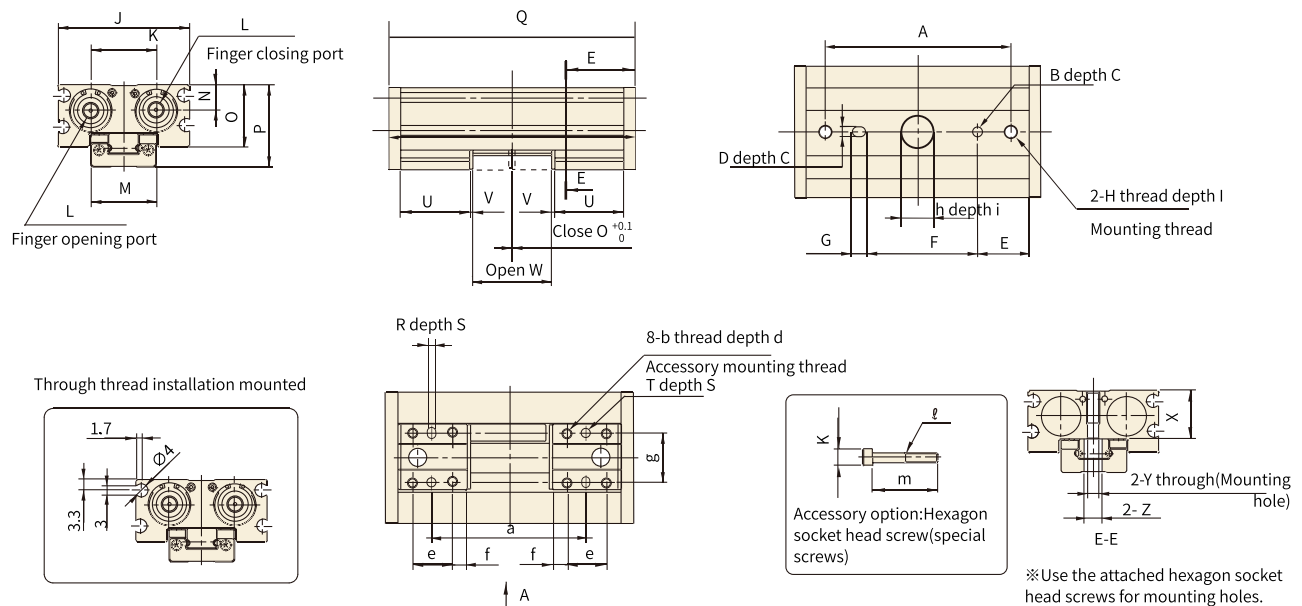
*For dimensions not given above, please refer to D1 series with same bare size.

*For dimensions not given above, please refer to D1 series with same bare size.

Dimension

Model	AA	BB	CC	DD	EE	FF	GG	HH	II
JHF2-8D	17	64.3	72	58	18	32	50	8	8
JHF2-12D2	26	94	104	90	27	48	80	18	4.5
JHF2-16D2	36	127.5	142	122	37	64	106	26	5.5
JHF2-20D2	42	159	174	144	46	80	128	30	8

JHF2-25D



※ Use the attached hexagon socket head screws for mounting holes.

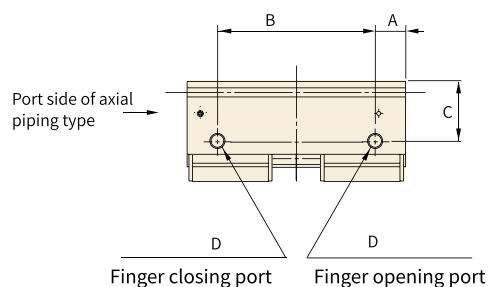
Dimension

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
JHF2-25D	122	Ø5H9 ^{+0.030} ₀	5	Ø5H9	38	77	6	M8x1.25	16	80	42.5	M5x0.8	52 ⁰ _{-0.1}	22	41	63.5	156	4	4

Model	T	U	V	W	X	Y	Z	a	b	d	e	f	g	h	i	k	f	m
JHF2-25D	Ø4H9 ^{+0.030} ₀	38	1.5	60 ^{±1}	38	12	6.5	101	M5 x 0.8	10.5	29	4.5	24	15	4	5	M3x0.5	6

Body Option: Side Piping Type

JHF2-□D□R



*For dimensions not given above, please refer to the table of dimensions above
 *25 bore without lateral piping

Model	A	B	C	D
JHF2-8DR	5.5	25	11	M3 x 0.5
JHF2-8D1R		37		
JHF2-8D2R		61		
JHF2-12DR	7	38	14.8	M5 x 0.8
JHF2-12D1R		54		
JHF2-12D2R		90		
JHF2-16DR	9	54	19	M5 x 0.8
JHF2-16D1R		76		
JHF2-16D2R		124		
JHF2-20DR	10	66	23	M5 x 0.8
JHF2-20D1R		94		
JHF2-20D2R		154		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor