

[illegible]

1. Small axial size and more compact structure
2. Strong lateral load resistance
3. Strong load capacity and torque force.
4. Two ways to connect the pipes, convenient installation and use

Bore Size (mm)	Piston Rod Size (mm)	Operating Direction		Piston Area (mm²)	Air Pressure (Mpa)					
					0.1	0.2	0.3	0.4	0.5	0.6
12	6	Double acting	OUT	113.0	11.3	22.6	33.9	45.2	56.5	67.8
			IN	84.8	8.5	17.0	25.4	33.9	42.4	50.9
16	8	Double acting	OUT	201.0	20.1	40.2	60.3	80.4	100.5	120.6
			IN	150.7	15.1	30.1	45.2	60.3	75.4	90.4
20	10	Double acting	OUT	314.0	31.4	62.8	94.2	125.6	157.0	188.4
			IN	235.5	23.6	47.1	70.7	94.2	117.8	141.3
25	12	Double acting	OUT	490.6	49.1	98.1	147.2	196.3	245.3	294.4
			IN	377.6	37.8	75.5	113.3	151.0	188.8	226.6
32	16	Double acting	OUT	803.8	80.4	160.8	241.2	321.5	401.9	482.3
			IN	602.9	60.3	120.6	180.9	241.2	301.4	361.7
40	16	Double acting	OUT	1256.0	125.6	251.2	376.8	502.4	628.0	753.6
			IN	1055.0	105.5	211.0	613.5	422.0	527.5	633.0
50	20	Double acting	OUT	1962.5	196.3	392.5	588.8	785.0	981.3	1177.5
			IN	1648.5	164.9	329.7	494.6	659.4	824.3	989.1
63	20	Double acting	OUT	3115.7	311.6	623.1	934.7	1246.3	1557.8	1869.4
			IN	2801.7	280.2	560.3	840.5	1120.7	1400.8	1681.0
80	25	Double acting	OUT	5024.0	502.4	1004.8	1507.2	2009.6	2512.0	3014.4
			IN	4533.4	453.3	906.7	1360.0	1360.0	2266.7	2720.0

Diagram illustrating the selection of a bearing size based on the formula: **JGP** **x** **M** **25** **x** **30**.

	1	2	3	4	5	
		Bearing Type	Bore Size		Stroke	
Compact Guide Cylinder	M	Slide bearing	12	12mm	40	40mm
			16	16mm	50	50mm
	20		20mm	63	63mm	
	25		25mm	80	80mm	
	L	Linear bearing	32	32mm		

Refer to "Standard Stroke"

Bore Size (mm)	Standard Stroke	Sensor
12,16	10,20,30,40,50,75,100,125,150,175,200,250	JEL-07R JEL-07D
20,25	20,30,40,50,75,100,125,150,175,200,250,300,350,400	
32~80	25,50,75,100,125,150,175,200,250,300,350,400	

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

JGP Series

Compact Guide Cylinder



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

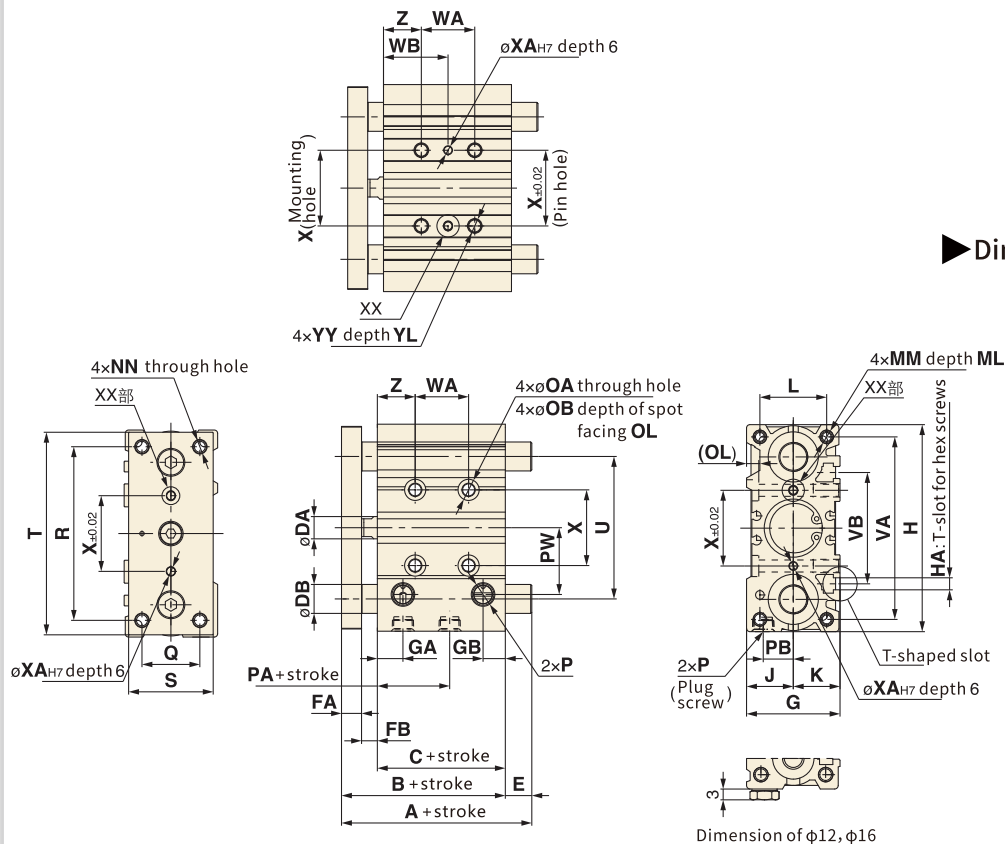
JGP

JSQB

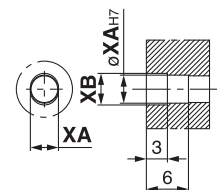
Sensor

Overall Dimension

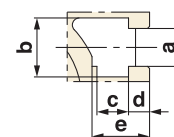
JGPM/JGPL Ø12~Ø25



Dimension Of XX



Dimension Of T-Shaped Slot



Bore Size	a	b	c	d	e
12	4.4	7.4	3.7	2	6.2
16	4.4	7.4	3.7	2.5	6.7
20	5.4	8.4	4.5	2.8	7.8
25	5.4	8.4	4.5	3	8.2

JGPM, JGPL Common Dimensions

Bore Size (mm)	Standard Stroke (mm)	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA
12	10,20,30,40,50,75,100,125,150,175,200,250	42	29	6	7	6	26	10	7	58	M4	13	13	18	M4×0.7	10	M4×0.7	4.3	8	4.5	M5×0.8	13
16		46	33	8	7	6	30	10.5	7.5	64	M4	15	13	22	M5×0.8	12	M5×0.8	4.3	8	4.5	M5×0.8	14.5
20	20,30,40,50,75,100,125,150,175,200,250,300,350,400	53	37	10	8	8	36	11.5	9	83	M5	18	18	24	M5×0.8	13	M5×0.8	5.4	9.5	5.5	Rc1/8	13.5
25		53.5	37.5	12	9	7	42	11.5	10	93	M5	21	21	30	M6×1.0	15	M6×1.0	5.4	9.5	5.5	Rc1/8	12.5

Bore Size (mm)	PB	PW	Q	R	S	T	U	VA	VB	WA					WB					X	XA	XB	YY	YL	Z	
										Below 30st	Over 30st Below 100st	Over 100st Below 200st	Over 200st Below 300st	Over 300st	Below 30st	Over 30st Below 100st	Over 100st Below 200st	Over 200st Below 300st	Over 300st							
12	8	18	14	48	22	56	41	50	37	20	40	110	200	-	15	25	60	105	-	23	3	3.5	M5×0.8	10	5	10
16	10	19	16	54	25	62	46	56	38	24	44	110	200	-	17	27	60	105	-	24	3	3.5	M5×0.8	10	5	10
20	10.5	25	18	70	30	81	54	72	44	24	44	120	200	300	29	39	77	117	167	28	3	3.5	M6×1.0	12	17	12
25	13.5	30	26	78	38	91	64	82	50	24	44	120	200	300	29	39	77	117	167	34	4	4.5	M6×1.0	12	17	12

JGPM (Slide Bearing) /A, DB, E Dimensions

Bore Size (mm)	A				DB	E			
	Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st		Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st
12	42	60.5	82.5	82.5	8	0	18.5	40.5	40.5
16	46	64.5	92.5	92.5	10	0	18.5	46.5	46.5
20	53	77.5	110	110	12	0	24.5	57	57
25	53.5	77.5	109.5	109.5	16	0	24	56	56

JGPL (Ball Bearing) /A, DB, E Dimensions

Bore Size (mm)	A				DB	E			
	Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st		Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st
12	43	55	84.5	84.5	6	1	13	42.5	42.5
16	49	65	94.5	94.5	8	3	19	48.5	48.5
20	59	76	100	117.5	10	6	23	47	64.5
25	65.5	81.5	100.5	117.5	13	12	28	47	64

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JELPC[®]

Bore Size (mm)	A			DB	E		
	Below 50st	Over 50st Below 200st	Over 200st		Below 50st	Over 50st Below 200st	Over 200st
80	104.5	131.5	180.5	30	8	35	84