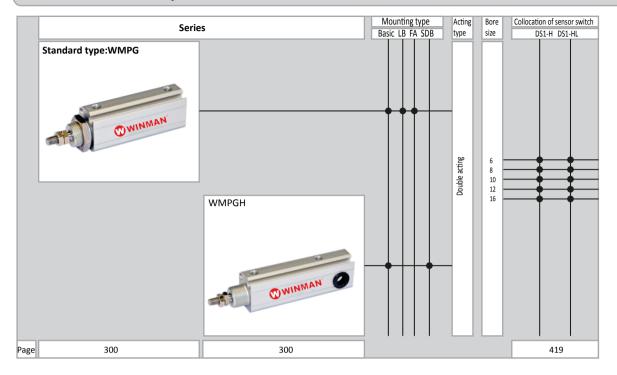


WMPG Series Plate Cylinder



Installation and application

- 1. When load changes in the work, the cylinder with abundant output capacity shall be selected.
- 2.Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion.
- 3. Necessary protection measure shall be taken in the environment with higher humidity, much dust or water drops, oil dust and welding dregs.
- 4.Dirty substances in the pipe must be eliminated before cylinder is connected with pipeline to prevent the entrance of particles into the cylinder.
- 5.The medium used by cylinder shall be filtered to 40 μ m or below.
- 6.As both of the front cover and piston of the cylinder are short, typically too large stroke can not be selected.
- 7.Anti-freezing measure shall be adopted under low temperature environment to prevent moisture freezing.
- 8.The cylinder shall avoid the influence of side load in operation to maintain the normal work of cylinder and extend the service life.
- 9.If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface. Anti-dust caps shall be added in air inlet and outlet ports. The front and back cover can not be dismantled, which shall be especially noticed.

Criteria for selection: Cylinder thrust

Model	Bore size	Rod size			Pressure	Operating pressure (MPa)							
wodei	(mm)	(mm)			area (mm²)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	
	6	3	Double	Push side	28.3	2.8	5.7	8.5	11.3	14.2	17.0	19.8	
	0	3	acting	Pull side	21.2	2.1	4.2	6.4	8.5	10.6	12.7	14.8	
	8	4	Double	Push side	50.3	5.0	10.1	15.1	20.1	25.2	30.2	35.2	
			acting	Pull side	37.7	3.8	7.5	11.3	15.1	18.9	22.6	26.4	
WMPGH		4	Double	Push side	78.5	7.9	15.7	23.6	31.4	39.3	47.1	55.0	
WIVIFGII			acting	Pull side	65.9	6.6	13.2	19.8	26.4	33.0	39.5	46.1	
	12	6	Double	Push side	113.0	11.3	22.6	33.9	45.2	56.5		79.1	
	12	O	acting	Pull side	84.7	8.5	17.0	25.4	33.9	42.4	50.8	59.3	
	16	6	Double	Push side	201.0	20.1	40.2	60.3	80.4	100.5	120.6	140.7	
			acting	Pull side	172.7	17.3	34.5	51.8	69.1	86.4	103.6	120.9	



Plate Cylinder / WMPG Series



Specification

Bore size(mm)	6	8	1	0	12	16			
Acting type	Double acting								
Fluid		Air(to be filtered by 40 μ m filter element)							
Operating pressure 0.1~0.7MPa(15~100psi)									
Proof pressure	1.05MPa(150psi)								
Mounting type		Bas	c FA	LB	SDB				
Temperature °C	-20~80								
Speed range mm/s			30~	500					
Stroke tolerance	+1.0								
Cushion type Bumper									
Port size		M3 × 0.5	M5 × 0.8						

Add) Refer to P419~442 for detail of sensor switch.

Stroke

• • • • • • •		
Bore size (mm)	Standard stroke (mm)	Max. std stroke
6	5 10 15 20 25	25
8	5 10 15 20 25 30 35 40	40
10	5 10 15 20 25 30 35 40	40
12	5 10 15 20 25 30 35 40	40
16	5 10 15 20 25 30 35 40	40

Note) Consult us for non-standard stroke.

Product feature

1.It is compact, small size and light weight. It is easy to install and dismantle.

2.The guide precision of piston rod is high and no additional lubricant is needed.

3. Advanced rubber coating process is applied to the back cover.

4. Mounting accessories with various specifications are optional.

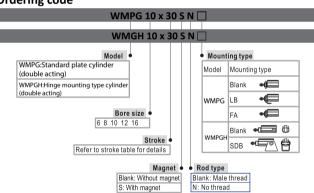
5. With magnet type is of the feature of position sensing.

6.There are magnetic switch slots around the cylinder body, which is

convenient to install inducting switch.

7.Cylinders of various specifications are optional.

Ordering code



Inner structure and material of major parts

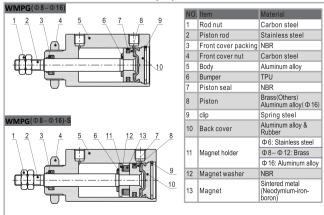
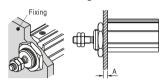




Plate Cylinder / WMPG Series

Installation and application

1. Select the plate width tightening torque of the front cover thread according to the table below:

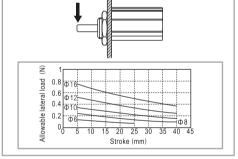


Bore size	Front cover thread	Maximum allowable torque(N.m)	Maximum width(A)
6	M10 × 1.0	12.5	4
8	M12 × 1.0	21.0	4
10	M12 × 1.0	21.0	4
12	M14 × 1.0	34.0	5
16	M14 × 1.0	34.0	5

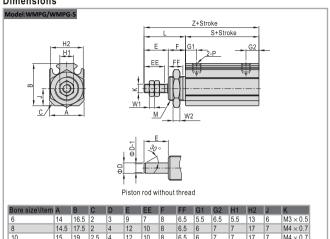
2.The extra torque produced by the load at the piston rod end cannot exceed the allowable value specified in the table below.Otherwise may cause damage the cylinder or reduce the service life.



Bore size	Piston rod thread	Maximum allowable torque(N.m)
6	M3 × 0.5	0.3
8	M4 × 0.7	0.8
10	M4 × 0.7	0.8
12	M5 × 0.8	1.6
16	M5 × 0.8	1.6



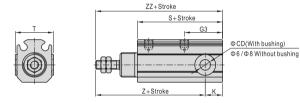
Dimensions



115	oute Size (itelli	- 1	IVI	1.5		VA CAL			Alikh m		1001	142 100	Alamana .		1 1 A Fields man or or or	80
L	Bore size\Item		. 4	ь				S			W1	N2		Z		
Ξ											_		_	_		
Г	16	20	24.5	3	6	14	12	10	8.5	6.5	7.5	8	19	10	$M5 \times 0.8$	
	12	17	21.5	2.5	5	14	12	10	8.5	6.5	7.5	8	19	8.5	$M5 \times 0.8$	
	10	15	19	2.5	4	12	10	8	6.5	6	7	7	17	7	$M4 \times 0.7$	
3	8	14.5	17.5	2	4	12	10	8	6.5	6	7	7	17	7	$M4 \times 0.7$	
Ľ	6	14	16.5	2	3	9	7	8	6.5	5.5	6.5	5.5	13	6	$M3 \times 0.5$	

Bore size\Item I	N.A	n	S			MAIO	Without magnet With magnet		
Dore Size (itelli L	IVI	P	Without magnet	With magnet	VVI	VV Z	Without magnet	With magnet	
6 17	$M10 \times 1.0$	$M3 \times 0.5$	16	21	1.8	3	33	38	
8 20	$M12 \times 1.0$	$M3 \times 0.5$	18	23	2.2	3	38	43	
10 20	$M12 \times 1.0$	$M3 \times 0.5$	19.5	24.5	2.2	3	39.5	44.5	
12 24	$M14 \times 1.0$	$M5 \times 0.8$	19.5	24.5	3	4	43.5	48.5	
16 24	$M14 \times 1.0$	$M5 \times 0.8$	19.5	24.5	3	4	43.5	48.5	

Model:WPGH/WPGH-S



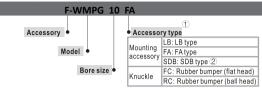
1	Bore size\Item	CD	G3	V	Т	Without magnet With magnet						
ı	Dore Size (itelli		03	K		S	Z	ZZ	S	Z	Z	
[6	3+0.05	11.5	4		21	34	38	26	39	43	
ı	8	4+0.05	15	5	-	26	41	46	31	46	51	
I	10	5 ^{+0.065}	18	6.5	17	30.5	44	50.5	35.5	49	55.5	
I	12	6+0.065	22	10	19	34	48	58	39	53	63	
[16	6+0.065	22	10	22	34	48	58	39	53	63	

Remark: The unmarked dimension is the same as WMPG standard type.



Plate Cylinder / WMPG Series

Ordering code



- ① Please refer to accessory list for selection and ordering information.
 ② SDB is attached with relevant PIN.

Accessory selection

Accessories\C	'ulindor modol	WN	/IPG	WMPGH				
Accessories	yiinder moder	Without magnet	With magnet	Without magnet	With magnet			
	LB	•	•	×	×			
Mounting accessory	FA	•	•	×	×			
accessory	SDB	×	×	•	•			
	FC	•	•	•	•			
Knuckle	RC	•	•	•	•			
KIIUCKIE	11	•	•	•	•			
	Υ	•	•	•	•			
Sensor switch	DS1-H	×	•	×	•			
2	DS1-HL	×	•	×	•			

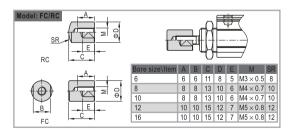
- ① Please refer to P415~416 for I knuckle and Y knuckle detail, ② Please refer to P419~442 for detail of sensor switch.

Material of accessories

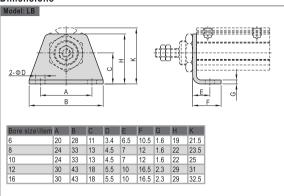
Accessories	Moun	ting acces	sories	Knuckle					
Bore size	LB	FA	SDB	FC	RC	I	Υ		
6~16	Δ	Δ	Δ			\Diamond	\Diamond		

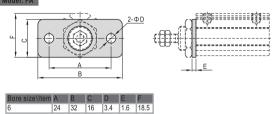
List for ordering code of accessories

DOTO SIZO			1 7 3					
6	F-WPG6LB		F-WMPG6	FA	F-WN	ИPG6SDB		
8	F-WMPG10LB		F-WMPG1	٥٢٨	F-WN	ИPG8SDB		
10	F-WINIEGTORB		F-WIVIPG1	F-WMPG10SDB				
12	F-WMPG16LB		F-WMPG1	F-WMPG12SDB				
16	I - WIVIF GIOLD		I - WIVIF GI	F-WMPG16SDB				
Accessories			Knι	ıckle				
Bore size	FC: Rubber bump	er (fla	t head)	RC: Rubbe	r bump	per (ball head)		
6	F-WMPG6FC			F-WMPG6RC				
8	F-WMPG10FC			F-WMPG10	np.c			
10	1-WIVIF GIOLC			L-ANIAL GT	JAC			
12	F-WMPG16FC			F-WMPG16RC				
16				. Trim Gione				
Accessories	Knu	ckle		9	Sensor	switch		
Bore size	I: I Knuckle	Y: Y	Knuckle	DS1-H□		DS1-HL□		
6	F-M3 × 050I	F-M3 >	< 050Y					
8	F-M4 × 070I	F-M4>	. 070\/					
10	F-IVI4 × 0701	F-IVI4 >	< U/U1	DS1-H□		DS1-HL□		
12	F-M05 × 080I	E MOE	× 080Y					
16	F-IVIU3 × U8UI	r-MU5	× UOUY					

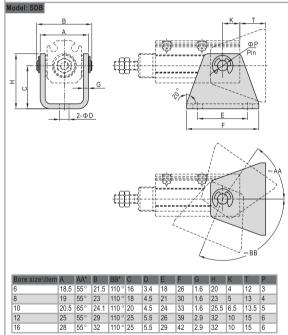


Dimensions





6	24	32	16	3.4	1.6	18.5
8	28	37	18	4.5	1.6	19.5
10	28	37	18	4.5	1.6	21
12	36	49	22	5.5	2.3	24
16	36	49	22	5.5	2.3	25.5



*Note:AA and BB are for reference only. Specific value depends on the actual situation.