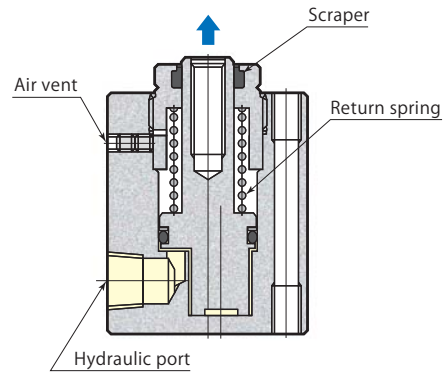


# Pascal clamp cylinder 25 MPa

model **CDA, CGA, CJA** Single acting



**Pascal**  
[www.pascaleng.co.jp](http://www.pascaleng.co.jp)



- This is a simple and compact push cylinder.
- A whirl-stop using an eccentric piston is provided.

**Specifications**

Size                      Scraper, seal material

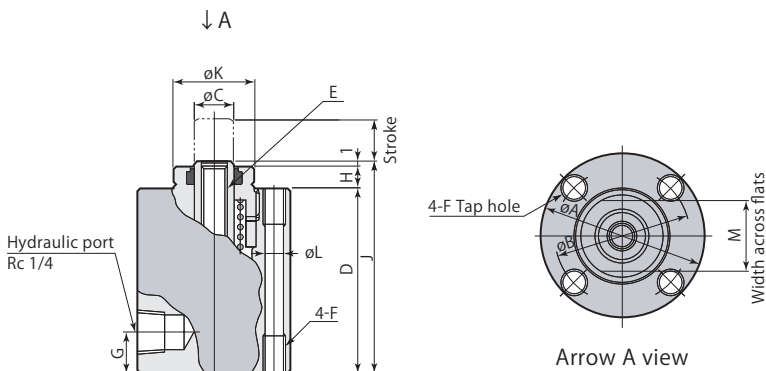
<b>CDA</b>	<b>1</b>	—	(Nil) : NBR (standard)
	<b>2.5</b>		<b>V*</b> : Fluorocarbon

\*: Fluorocarbon has been adopted as a measure for the use of chlorine-based cutting fluid and also for thermal resistance (max. 150°C) specifications.

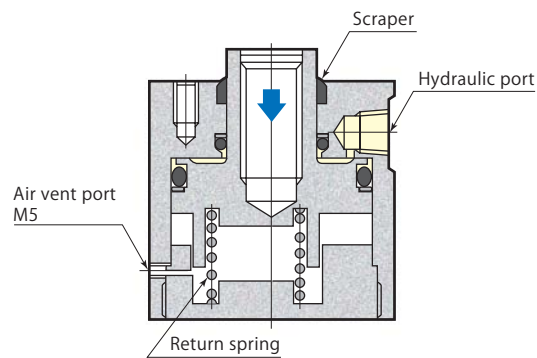
Model			CDA1	CDA2.5
Stroke	mm		10	16
Cylinder force*1	Hydraulic pressure 3.5 MPa	kN	1.5	3.4
	Hydraulic pressure 7 MPa	kN	3.1	6.9
	Hydraulic pressure 25 MPa	kN	11.2	25.2
Cylinder inner diameter	mm		24	36
Rod diameter	mm		14	18
Effective area	cm <sup>2</sup>		4.52	10.18
Max. oil flow rate	L/min		1.4	3.1
Cylinder capacity	cm <sup>3</sup>		4.5	16.3
Return spring force*2	N		67~105	150~258
Mass	kg		1.0	2.4

- Pressure range: 2~25 MPa      ● Proof pressure: 37.5 MPa      ● Operating temperature: 0~70 °C
  - Fluid used: General mineral based hydraulic oil (ISO-VG32 equivalent)
  - Air vent must be opened to atmosphere. Provide the piping if there is a risk of coolant or metal chips intrusion.
- \*1: This is value for central position of stroke.      \*2: Figures are for "lower end ~ upper end" of piston action.

**Dimensions**



Model	CDA1	CDA2.5
øA	50	68
øB	40	55
øC	14	18
D	57.5	83.5
E	M8×1.25 depth 22	M12×1.75 depth 27
F	M8×1.25 depth 13	M10×1.5 depth 15
G	12	14
H	6.5	8.5
J	65	93
øK	26	36
øL	6.8	8.5
M	22	30



- This is a simple and compact pull cylinder.
- A whirl-stop using an eccentric piston is provided.

### Specifications

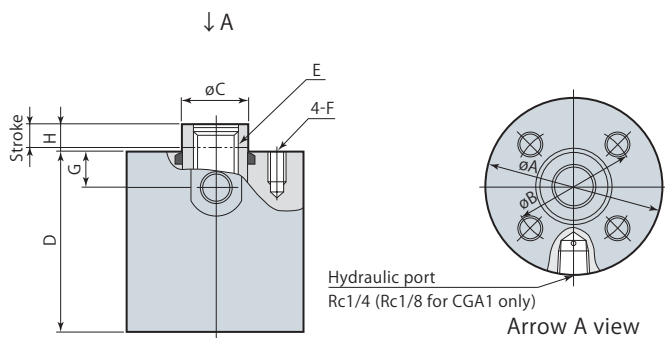
Size	Scraper, seal material
1	
2.5	(Nil) : NBR (standard)
4	V* : Fluorocarbon
6	

\*: Fluorocarbon has been adopted as a measure for the use of chlorine-based cutting fluid and also for thermal resistance (max. 150°C) specifications.

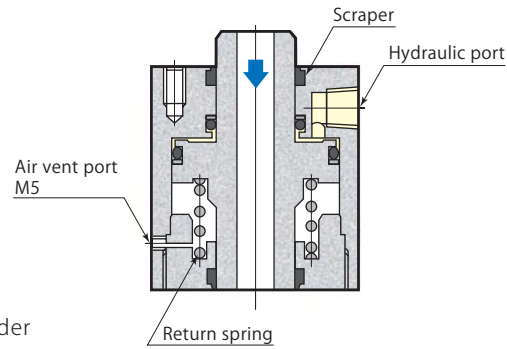
Model		CGA1	CGA2.5	CGA4	CGA6
Stroke	mm	6	8	10	12
Cylinder force*1	Hydraulic pressure 3.5 MPa	kN 1.3	3.3	5.4	8.8
	Hydraulic pressure 7 MPa	kN 2.6	6.8	11.1	17.9
	Hydraulic pressure 25 MPa	kN 9.4	24.8	40.5	64.9
Cylinder inner diameter	mm	26	40	52	65
Rod diameter	mm	14	18	25	30
Effective area	cm <sup>2</sup>	3.77	10.02	16.33	26.11
Max. oil flow rate	L/min	1.1	3.0	4.9	7.8
Cylinder capacity	cm <sup>3</sup>	2.2	8.0	16.3	31.3
Return spring force*2	N	40~84	131~290	179~427	269~430
Mass	kg	0.4	1.0	1.5	3.1

- Pressure range: 2~25 MPa
  - Proof pressure: 37.5 MPa
  - Operating temperature: 0~70 °C
  - Fluid used: General mineral based hydraulic oil (ISO-VG32 equivalent)
  - Air vent must be opened to atmosphere. Provide the piping if there is a risk of coolant or metal chips intrusion.
- \*1: This is value for central position of stroke. \*2: Figures are for "upper end ~ lower end" of piston action.

### Dimensions



Model	CGA1	CGA2.5	CGA4	CGA6
øA	40	55	65	85
øB	30	40	50	55
øC	14	18	25	30
D	50	63	70	82
E	M8×1.25 depth 22	M12×1.75 depth 27	M16×2 depth 33	M20×2.5 depth 36.5
F	M6×1 depth 11	M8×1.25 depth 13	M8×1.25 depth 13	M8×1.25 depth 13
G	10	13.5	13.5	15.5
H	6.5	8.5	10.5	12.5



- It functions as either push cylinder or pull cylinder by using the through-hole of piston.

### Specifications

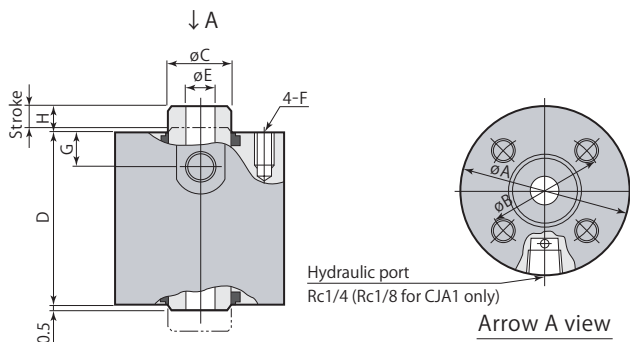
Size	Scraper, seal material
<b>1</b>	
<b>2.5</b>	(Nil) : NBR (standard)
<b>4</b>	<b>V*</b> : Fluorocarbon
<b>6</b>	

\*: Fluorocarbon has been adopted as a measure for the use of chlorine-based cutting fluid and also for thermal resistance (max. 150°C) specifications.

Model		CJA1	CJA2.5	CJA4	CJA6
Stroke	mm	6	8	10	12
Cylinder force*1	Hydraulic pressure 3.5 MPa	kN 1.3	3.4	5.5	8.7
	Hydraulic pressure 7 MPa	kN 2.6	6.9	11.2	17.9
	Hydraulic pressure 25 MPa	kN 9.4	24.9	40.6	64.9
Cylinder inner diameter	mm	26	40	52	65
Rod diameter	mm	14	18	25	30
Effective area	cm <sup>2</sup>	3.77	10.02	16.33	26.11
Max. oil flow rate	L/min	1.1	3.0	4.9	7.8
Cylinder capacity	cm <sup>3</sup>	2.2	8.0	16.3	31.3
Return spring force*2	N	44~67	121~178	171~250	275~559
Mass	kg	0.4	1.0	1.5	3.1

- Pressure range: 2~25 MPa
  - Proof pressure: 37.5 MPa
  - Operating temperature: 0~70 °C
  - Fluid used: General mineral based hydraulic oil (ISO-VG32 equivalent)
  - Air vent must be opened to atmosphere. Provide the piping if there is a risk of coolant or metal chips intrusion.
- \*1: This is value for central position of stroke. \*2: Figures are for "upper end ~ lower end" of piston action.

### Dimensions



Model	CJA1	CJA2.5	CJA4	CJA6
øA	40	55	65	85
øB	30	40	50	55
øC	14	18	25	30
D	50	63	70	82
øE	8.5	12.5	16.5	20.5
F	M6×1 depth 11	M8×1.25 depth 13	M8×1.25 depth 13	M8×1.25 depth 13
G	10	13.5	13.5	15.5
H	6.5	8.5	10.5	12.5