

# Linear cylinders

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# Cartridge mount cylinder : CS

Single acting - Spring return  
Max force at 350 bar : 3 to 110 kN

## Characteristics

- threaded assembly (C-wrench)
- supplied in oil directly through the drilled block
- spring return
- domed or threaded rod end with flats
- supplied with o-ring and anti-extrusion ring

## Design

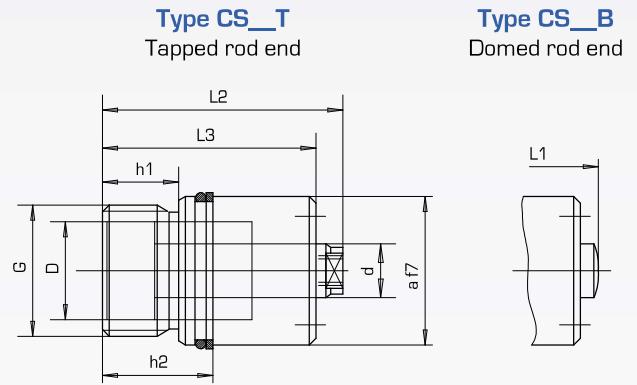
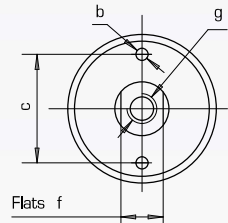
- steel body with anti-corrosion treatment
- piston made of treated steel

## Note

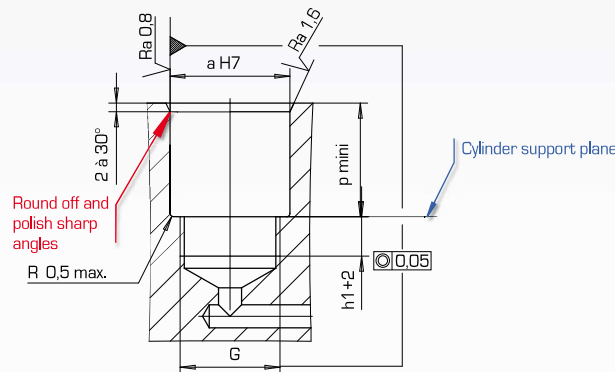
Single acting cylinders should not be used in the presence of cutting fluid.



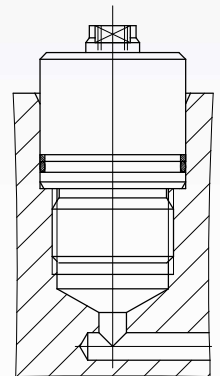
## Dimensions



## Housing machining dimensions



## Example of assembly



**Order code of seal kit for CS cylinders : 11\* \*\*\*/900**  
Example : For a CS 15, the seal kit code is : 111 102/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions												
							L1	L2	L3	h1	h2	a	b	c	f	G	g	p mini	
2.7	10	0.78	10	5	CS 5 B CS 5 T	111 100/000 111 100/100	37	40	35	12	17	16	2	12.5	-	M15 x 1.5	M3 lg. 6	8	
7	12	2.0	16	8	CS 10 B CS 10 T	111 101/000 111 101/100	47	50	44	13	18.5	24	3	18	-	M22 x 1.5	M5 lg. 10	8.5	
11	12	3.14	20	10	CS 15 B CS 15 T	111 102/000 111 102/100	51	54	47	14	21	28	4	22	8	M26 x 1.5	M6 lg. 12	10	
17.1	16	4.9	25	14	CS 25 B CS 25 T	111 103/000 111 103/100	59	62	55	15	22	34	4	28	11	M32 x 1.5	M8 lg. 12	10	
28	16	8.0	32	16	CS 40 B CS 40 T	111 104/000 111 104/100	64	67	59	17	24	42	5	32	13	M40 x 1.5	M10 lg. 15	10	
44	20	12.56	40	20	CS 65 B CS 65 T	111 105/000 111 105/100	86	89	80.5	22	30	52	6	40	17	M50 x 1.5	M12 lg. 20	11	
68.7	20	19.62	50	25	CS 100 B CS 100 T	112 090/000 112 090/100	89	92	81	28	37	64	8	48	19	M62 x 1.5	M16 lg. 22	12	
109	25	31.15	63	32	CS 160 B CS 160 T	112 091/000 112 091/100	104	108	95	30	41	80	10	62	24	M78 x 1.5	M20 lg. 30	14	

# Cartridge mount cylinder : CSH



Single acting - Hexagonal head  
Max force at 350 bar : 3 to 110 kN

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## Characteristics

- threaded assembly (standard spanner)
- supplied in oil directly through the drilled block
- spring return
- domed or threaded rod end with flats
- supplied with o-ring and anti-extrusion ring

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel

## Note

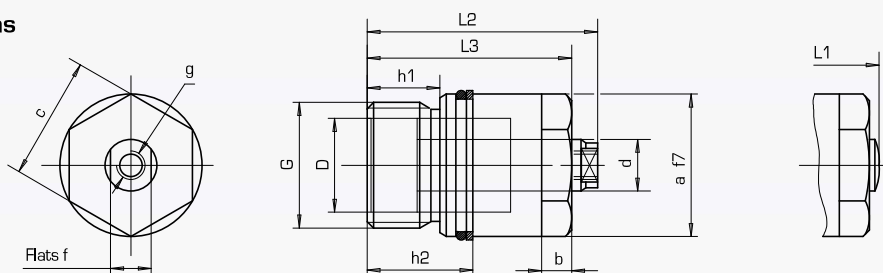
Single acting cylinders should not be used in the presence of cutting fluid.



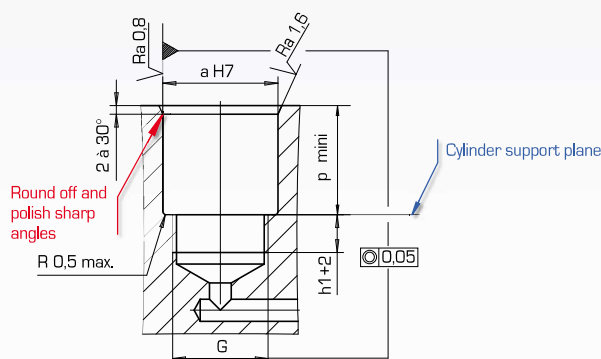
Type CSH\_T  
Tapped rod end

Type CSH\_B  
Domed rod end

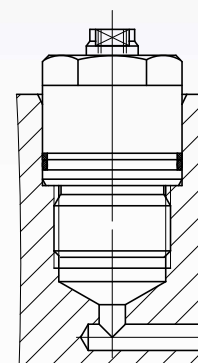
## Dimensions



## Housing machining dimensions



## Example of assembly



Order code of seal kit for CSH cylinders : **11\* \*\*\*/900**  
Example : For a CSH 15, the seal kit code is : 111 102/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions												
							L1	L2	L3	h1	h2	a	b	c	f	G	g	p mini	
kN	mm	cm <sup>2</sup>	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm			mm	
2.7	10	0.78	10	5	CSH 5 B CSH 5 T	111 100/200 111 100/300	37	40	35	12	17	16	2	12.5	-	M15 x 1.5	M3 lg. 6	8	
7	12	2.0	16	8	CSH 10 B CSH 10 T	111 101/200 111 101/300	47	50	44	13	18.5	24	3	18	-	M22 x 1.5	M5 lg. 10	8.5	
11	12	3.14	20	10	CSH 15 B CSH 15 T	111 102/200 111 102/300	51	54	47	14	21	28	4	22	8	M26 x 1.5	M6 lg. 12	10	
17.1	16	4.9	25	14	CSH 25 B CSH 25 T	111 103/200 111 103/300	59	62	55	15	22	34	4	28	11	M32 x 1.5	M8 lg. 12	10	
28	16	8.0	32	16	CSH 40 B CSH 40 T	111 104/200 111 104/300	64	67	59	17	24	42	5	32	13	M40 x 1.5	M10 lg. 15	10	
44	20	12.56	40	20	CSH 65 B CSH 65 T	111 105/200 111 105/300	86	89	80.5	22	30	52	6	40	17	M50 x 1.5	M12 lg. 20	11	
68.7	20	19.62	50	25	CSH 100 B CSH 100 T	112 090/200 112 090/300	89	92	81	28	37	64	8	48	19	M62 x 1.5	M16 lg. 22	12	
109	25	31.15	63	32	CSH 160 B CSH 160 T	112 091/200 112 091/300	104	108	95	30	41	80	10	62	24	M78 x 1.5	M20 lg. 30	14	

# Cartridge mount cylinder : **CD**

Double acting - Threaded bottom  
Max force at 350 bar : 12 to 115 kN

## Characteristics

- threaded assembly (C-wrench)
- supplied in oil directly through the drilled block
- domed or threaded rod end with flats
- supplied with o-ring and anti-extrusion ring

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel
- double sealing on rod

## Note

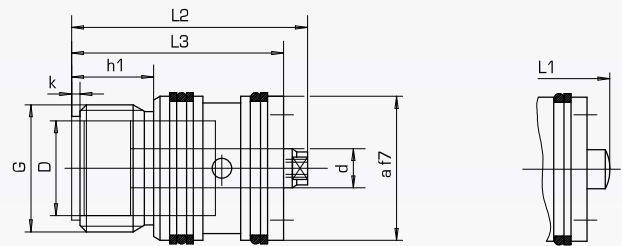
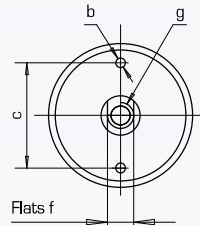
These cylinders should not be use in the presence of cutting fluid.



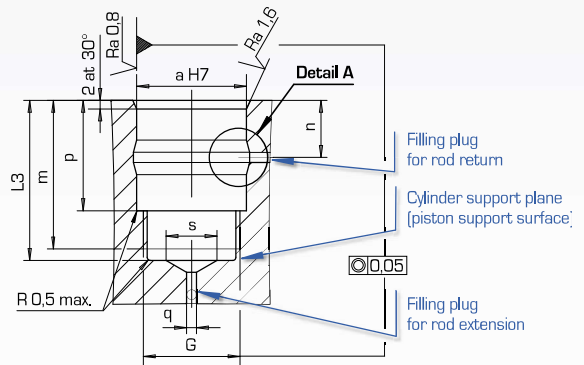
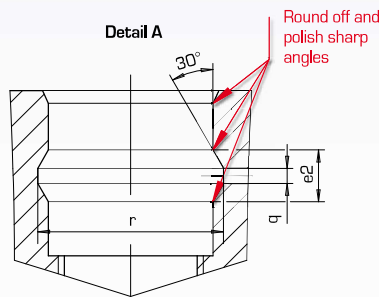
Type CD\_T  
Tapped rod end

Type CD\_B  
Domed rod end

## Dimensions



## Housing machining dimensions



Order code of seal kit for CD cylinders : **14\* \*\*/900**  
Example : For a CD 25, the seal kit code is : 141 103/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions																
							L1	L2	L3	h1	a	b	c	r	f	G	g	k	p	q	m	n	s
kN	mm	cm <sup>2</sup>	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
P 10.8 T 8	20	P 3.14 T 2.35	20	10	CD 15 B CD 15 T	141 429/000 141 429/100	48	51	44	17	28	4	22	29 5	8	M26 x 1.5	M6 lg. 12	3	28	3	41	14	15
P 17.1 T 11.9	25	P 4.9 T 3.4	25	14	CD 25 B CD 25 T	141 103/000 141 103/100	56	59	52	19	34	4	28	35 5	11	M32 x 1.5	M8 lg. 12	4	34	3	48	16	20
P 28.0 T 21.0	25	P 8.0 T 6.0	32	16	CD 40 B CD 40 T	141 104/000 141 104/100	61	64	56	22	42	5	32	43,6 7	13	M40 x 1.5	M10 lg.15	4	35	4	52	19	27
P 43.7 T 32.9	40	P 12.5 T 9.4	40	20	CD 65 B CD 65 T	141 105/000 141 105/100	82	85	76.5	30	52	6	40	54 10	17	M50 x 1.5	M12 lg. 20	5	47	6	71.5	21.5	35
P 68.6 T 51.4	40	P 19.6 T 14.7	50	25	CD 100 B CD 100 T	142 200/000 142 200/100	85	88	77	33	64	8	48	66 10	19	M62 x 1.5	M16 lg. 22	6	45	6	71	22	45
P 109.2 T 80.8	50	P 31.2 T 23.1	63	32	CD 160 B CD 160 T	142 201/000 142 200/100	99	103	90	40	80	10	62	82 10	24	M78 x 1.5	M20 lg. 30	6	51	6	84	25	58

# Cartridge mount cylinder : CDD

Double acting - Threaded head  
Max force at 350 bar : 7 to 28 kN



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## Characteristics

- threaded assembly (C-wrench)
- supplied in oil directly through the drilled block
- available with Viton seals ( $100^{\circ}\text{C} < T < 150^{\circ}\text{C}$ )
- supplied with o-ring and anti-extrusion ring

## Design

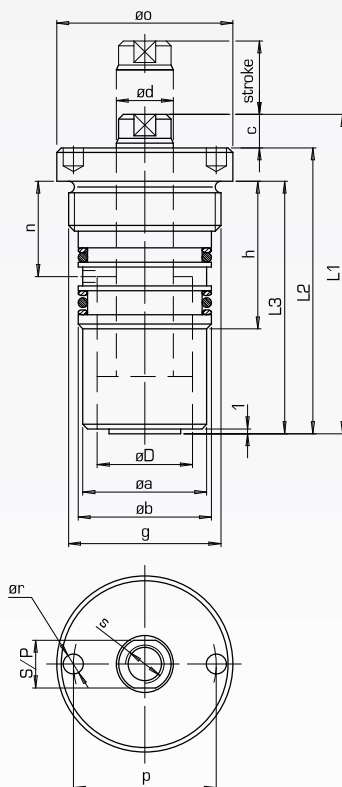
- steel body with anti-corrosion treatment
- piston made of treated steel
- double sealing on rod

## Note

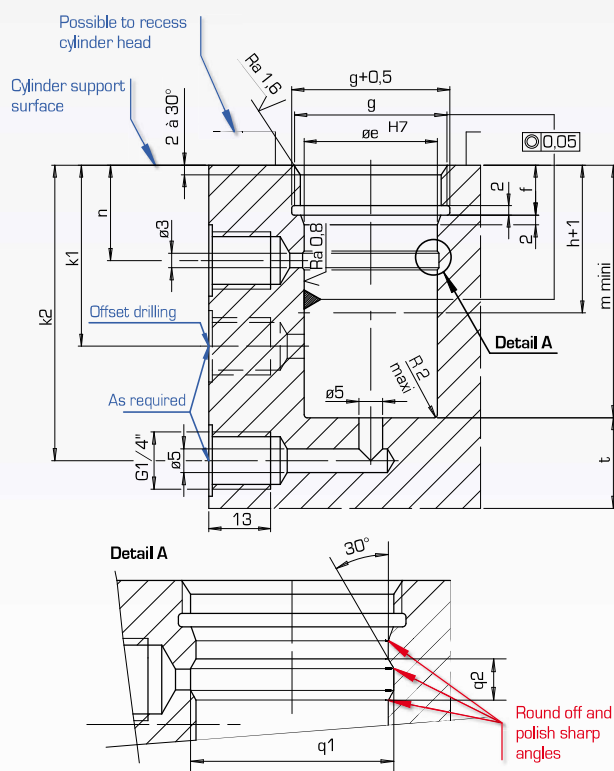
These cylinders may be completely recessed in the drilled block.



Dimensions



Housing machining dimensions



Order code of nitrile seal kit for CDD cylinders : 141 \*\*\*/900  
Order code of viton seal kit for CDD V cylinders : 141 \*\*\*/960

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions																				
							L1 ±1	L2	L3	øa	øb f7	c	øe H7	f +0.2	g	h	k1 min	k2 min	m min	n	ø0	p	q1 q2	ør	s	t	S/P
P 7 T 4.2	16	P 2.0 T 1.2	16	10	CDD 10 CDD 10 V	141 374/000 141 374/060	65	59	48	21	22	6	22	8.5	M26 x 1.5	30	34	53	48	19	31	25	23 5	2.5	M6 x 12	8	8
P 10.8 T 7	20	P 3.1 T 2.0	20	12	CDD 15 CDD 15 V	141 375/000 141 375/060	67	60	53	26	28	7	28	10.5	M32 x 1.5	31	35	62	53	20	37	30	29 5	4.2	M8 x 12	10	10
P 17.1 T 10.1	25	P 4.9 T 2.9	25	16	CDD 25 CDD 25 V	141 376/000 141 376/060	82	75	65	33	35	7	35	13.5	M40 x 1.5	39	43	72	65	25	44	35	36 5	5.2	M10 x 15	11	13
P 28 T 17.1	32	P 8.0 T 4.9	32	20	CDD 40 CDD 40 V	141 377/000 141 377/060	94	84	72	42	44	10	44	15.5	M50 x 1.5	44	48	79	72	28	54	45	45 5	5.2	M12 x 15	13	17

# Threaded cylinder : FS

Single acting  
Max force at 350 bar : 3 to 110 kN

## Characteristics

- spring return
- domed or threaded rod end with flats

## Accessories

- fixing nut, see page 13

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel

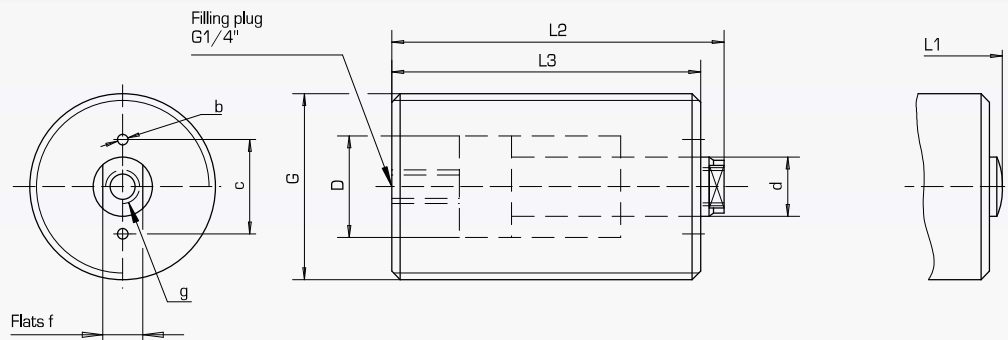
## Nota

Single acting cylinders should not be used in presence of cutting fluid.



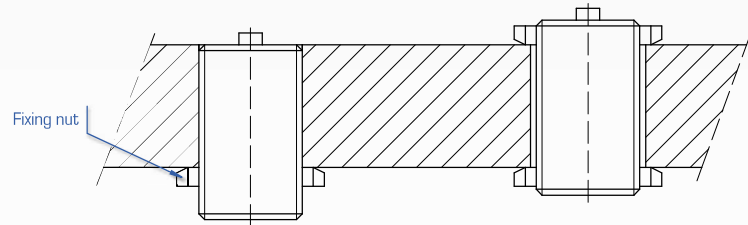
Type FS\_\_T  
Tapped rod end

Type FS\_\_B  
Domed rod end



Assembly into a tapped plate

Assembly into a drilled plate



**Order code of seal kit for FS cylinders : 11\* \*\*\*/900**

Example : For a FS 40, the seal kit code is : 111 110/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions								
							L1	L2	L3	b	c	f	G	g	
kN	mm	cm <sup>2</sup>	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm
2.7	10	0.78	10	5	FS 5 B	111 106/200	49.5	52.5	48.5	2	12.5	-	M22 x 1.5	M3 lg. 6	
					FS 5 T	111 106/300									
7	12	2.0	16	8	FS 10 B	111 107/200	58.5	61.5	57.5	3	18	-	M30 x 1.5	M5 lg. 10	
					FS 10 T	111 107/300									
11	12	3.14	20	10	FS 15 B	111 108/200	63.5	66.5	61	4	22	8	M36 x 1.5	M6 lg.12	
					FS 15 T	111 108/300									
17.1	16	4.9	25	14	FS 25 B	111 109/200	71.5	74.5	69	4	28	11	M42 x 1.5	M8 lg. 12	
					FS 25 T	111 109/300									
28	16	8.0	32	16	FS 40 B	111 110/200	76.5	79.5	73	5	32	13	M50 x 1.5	M10 lg. 15	
					FS 40 T	111 110/300									
44	20	12.56	40	20	FS 65 B	111 111/200	98.5	101.5	94.5	6	40	17	M60 x 1.5	M12 lg. 20	
					FS 65 T	111 111/300									
68.7	20	19.62	50	25	FS 100 B	112 092/200	101.5	104.5	95	8	48	19	M75 x 1.5	M16 lg. 22	
					FS 100 T	112 092/300									
109	25	31.15	63	32	FS 160 B	112 093/200	117.5	120.5	109.5	10	62	24	M95 x 2	M20 lg. 30	
					FS 160 T	112 093/300									

# Threaded cylinder : FSG

Single acting - Long stroke  
Max force at 350 bar : 17 to 110 kN



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## Characteristics

- return using rectangular cross-section spring

## Accessories

- fixing nut, see page 13

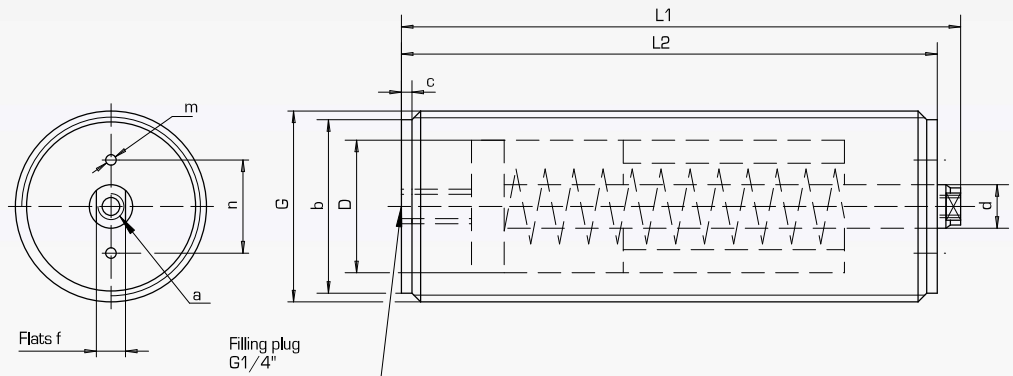
## Design

- steel body with anti-corrosion treatment
- piston made of treated steel

## Nota

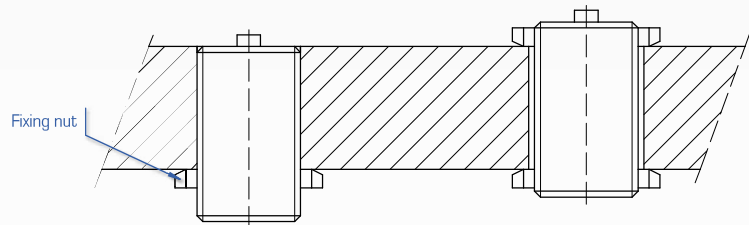
The spring is only designed for the return of the rod. If a return force is required, use the FDG type double acting cylinder.

Single acting cylinders should not be used in presence of cutting fluid.



Assembly into a tapped plate

Assembly into a drilled plate



**Order code of seal kit for FSG cylinders : 11\* \*\*\*/900**

Example : For a FSG 40, the seal kit code is : 111 113/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions								
							L1	L2	a	b	c	f	m	n	G
kN	mm	cm <sup>2</sup>	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	
17.1	25	4.9	25	10	FSG 25	111 112/000	128	122	M6 lg. 12	34	3	8	4	28	M36 x 1.5
28	35	8.0	32	12	FSG 40	111 113/000	161	155	M6 lg. 15	42.5	4	10	5	32	M45 x 1.5
44	45	12.56	40	16	FSG 65	111 114/000	202	195	M10 lg. 15	49	5	13	6	40	M52 x 1.5
68.7	60	19.62	50	20	FSG 100	112 094/000	241	234	M12 lg. 20	77	6	17	8	48	M70 x 1.5
109	80	31.15	63	25	FSG 160	112 095/000	306	296	M16 lg. 22	81	8	19	10	62	M85 x 2

Linear  
cylinders

# Threaded cylinder : **FD**

Double acting

Maxi force at 350 bar : 11 to 112 kN

## Characteristics

- domed or threaded rod end with flats

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel

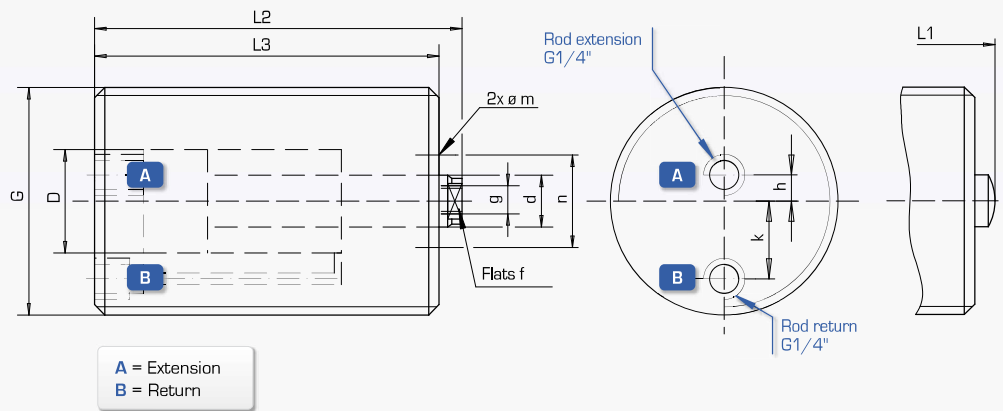
## Accessories

- fixing nut, see page 13



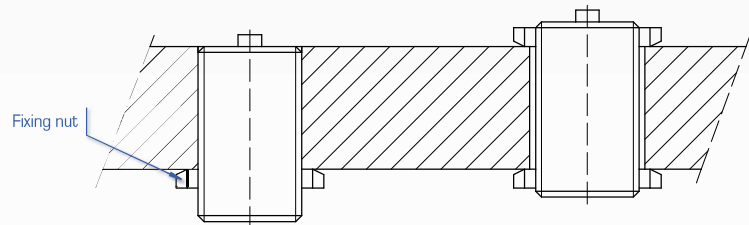
Type **FD\_T**  
Tapped rod end

Type **FD\_B**  
Domed rod end



Assembly into a tapped plate

Assembly into a drilled plate



**Order code of seal kit for FD cylinders : 14\* \*\*\*/900**

Example : For a FD 40, the seal kit code is : 141 108/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions										
							L1	L2	L3	f	G	g	h	k	m	n	
kN	mm	cm <sup>2</sup>	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
P 11 T 8	20	P 3.14 T 2.35	20	10	FD 15 B FD 15 T	141 106/000 141 106/100	71.5	74.5	68	8	M45 x 1.5	M6 lg.12	9	13	4	22	
P 17.1 T 12	25	P 4.9 T 2.37	25	14	FD 25 B FD 25 T	141 107/000 141 107/100	78.5	81.5	75	11	M52 x 1.5	M8 lg.12	6	16	4	28	
P 28 T 21.7	25	P 8.04 T 6.03	32	16	FD 40 B FD 40 T	141 108/000 141 108/100	84.5	87.5	80	13	M60 x 1.5	M10 lg.15	3	20	5	32	
P 44 T 33.6	40	P 12.56 T 9.42	40	20	FD 65 B FD 65 T	141 109/000 141 109/100	105	108	100	17	M70 x 1.5	M12 lg.20	0	25.5	6	40	
P 68.7 T 52.9	40	P 19.63 T 14.72	50	25	FD 100 B FD 100 T	142 202/000 142 202/100	110.5	113.5	103	19	M85 x 2	M16 lg.22	0	23.5	8	48	
P 109 T 83.3	50	P 31.17 T 23.13	63	32	FD 160 B FD 160 T	142 203/000 142 203/100	125.5	129.5	117	24	M105 x 2	M20 lg.30	0	41	10	62	



# Threaded cylinder : FDG

Double acting - Long stroke  
Max force at 350 bar : 11 to 112 kN



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## Characteristics

- domed or threaded rod end with flats

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel

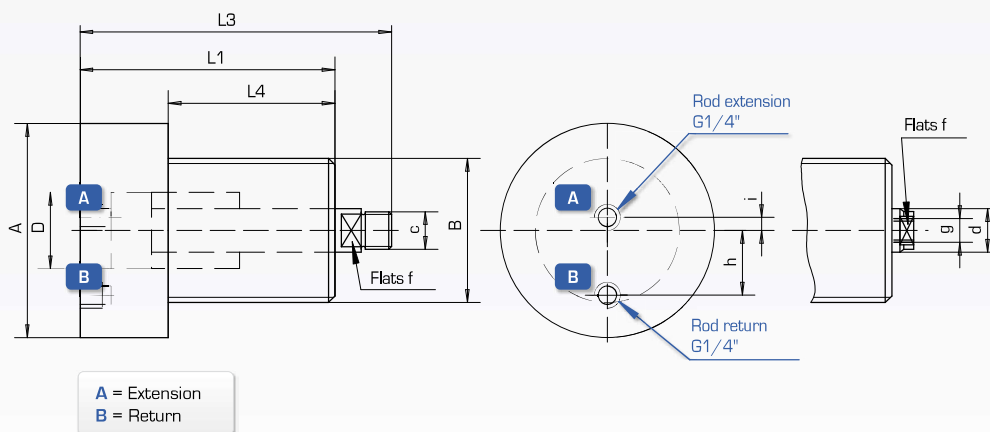
## Accessories

- fixing nut, see page 13



Type FDG\_F  
Threaded rod end

Type FDG\_T  
Tapped rod end



Linear cylinders

**Order code of seal kit for FDG cylinders : 14\* \*\*\*/900**

Example : For a FDG 40, the seal kit code is : 141 112/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions										
							A	B	g	c	i	h	f	L1	L2	L3	L4
kN	mm	cm <sup>2</sup>	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
P 11 T 5.6	40	P 3.14 T 1.6	20	14	FDG 15 F FDG 15 T	141 110/000 141 110/100	58	M36 x 1.5	M8 lg. 12	M10 lg. 14	13	17	11	90.5	97	111	40.5
P 17.5 T 10.1	60	P 4.9 T 2.9	25	16	FDG 25 F FDG 25 T	141 111/000 141 111/100	62	M42 x 1.5	M10 lg. 15	M12 lg. 16	11	19	13	112.5	120	136	60.5
P 28.7 T 17.1	60	P 8.0 T 4.9	32	20	FDG 40 F FDG 40 T	141 112/000 141 112/100	80	M52 x 1.5	M12 lg. 20	M16 lg. 22	4	26	17	116.5	125	147	61.5
P 44.8 T 27	80	P 12.5 T 7.6	40	25	FDG 65 F FDG 65 T	141 113/000 141 113/100	90	M60 x 1.5	M16 lg. 22	M20x1.5 lg. 28	0	30	19	146	155	183	86
P 70 T 40.6	80	P 19.6 T 11.6	50	32	FDG 100 F FDG 100 T	142 204/000 142 204/100	100	M70 x 1.5	M20 lg. 30	M24x2 lg. 34	0	35	24	150	160	194	88
P 111.3 T 65.1	100	P 31.1 T 18.6	63	40	FDG 160 F FDG 160 T	142 205/000 142 205/100	120	M85 x 1.5	M27 lg. 40	M30x2 lg. 42	0	45	27	173	184	226	103

# Threaded cylinder : **FDGF**

Double acting - Long stroke - Flanged  
Max force at 350 bar : 11 to 112 kN

## Characteristics

- domed or threaded rod end with flats

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel

## Accessories

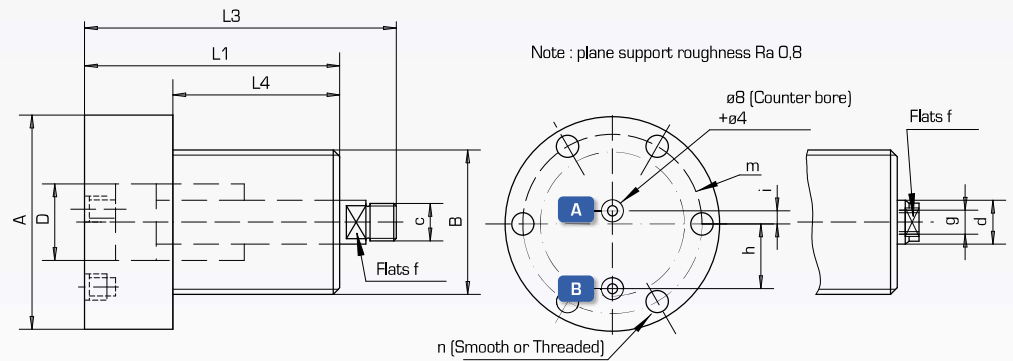
- bottom with 6 smooth holes or 6 tapped holes
- fixing nut, see page 13



**Type FDGF\_F L6**  
Threaded rod  
Smooth holes

**FDGF\_L6 ou T6**

**Type FDGF\_T T6**  
Tapped rod  
Tapped holes



**\_L6 : 6 smooth fixing holes : 14\* \*\*\*/200, 14\* \*\*\*/300**  
**\_T6 : 6 threaded fixing holes : 14\* \*\*\*/210, 14\* \*\*\*/300**

**Order code of seal kit for FDGF cylinders : 14\* \*\*\*/900**  
Example : For a FDGF 40, the seal kit code is : 141 112/900

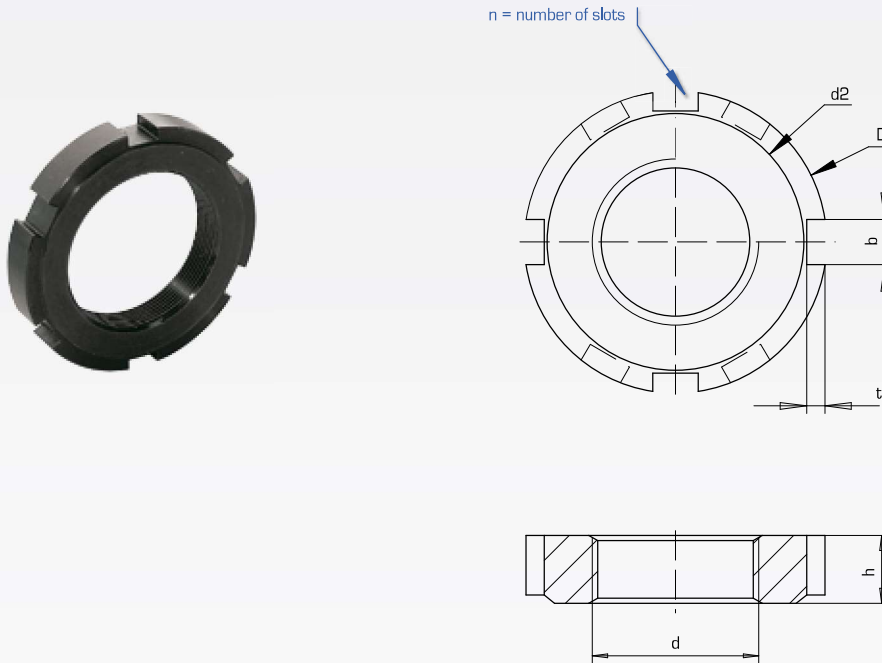
F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions													
							A	B	g	c	i	h	f	m	n smooth or tapped	L1	L2	L3	L4	
kN	mm	cm <sup>2</sup>	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
P 11 T 5.6	40	P 3.14 T 1.6	20	14	FDGF 15 F FDGF 15 T	141 110/200 141 110/300	58	M36 x 1.5	M8 lg. 12	M10 lg. 14	13	17	11	48	6.3 M6 lg. 10	90.5	97	111	40.5	
P 17.5 T 10.1	60	P 4.9 T 2.9	25	16	FDGF 25 F FDGF 25 T	141 111/200 141 111/300	62	M42 x 1.5	M10 lg. 15	M12 lg. 16	11	19	13	52	6.3 M6 lg. 10	112.5	120	136	60.5	
P 28.7 T 17.1	60	P 8.0 T 4.9	32	20	FDGF 40 F FDGF 40 T	141 112/200 141 112/300	80	M52 x 1.5	M12 lg. 20	M16 lg. 22	4	26	17	67	8.4 M8 lg. 12	116.5	125	147	61.5	
P 44.8 T 27	80	P 12.5 T 7.6	40	25	FDGF 65 F FDGF 65 T	141 113/200 141 113/300	90	M60 x 1.5	M16 lg. 22	M20x1.5 lg. 28	0	30	19	76	10.5 M10 lg. 15	146	155	183	86	
P 70 T 40.6	80	P 19.6 T 11.6	50	32	FDGF 100 F FDGF 100 T	142 204/200 142 204/300	100	M70 x 1.5	M20 lg. 30	M24x2 lg. 34	0	35	24	86	10.5 M10 lg. 15	150	160	194	88	
P 111.3 T 65.1	100	P 31.1 T 18.6	63	40	FDGF 160 F FDGF 160 T	142 205/200 142 205/300	120	M85 x 1.5	M27 lg. 40	M30x2 lg. 42	0	45	27	103	12.5 M12 lg. 18	173	184	226	103	

# Nut for threaded cylinders : EMF

Fine pitch metric thread  
M22 x 1,5 to M105 x 2



www.quiri.com



Linear cylinders

Type	Order code	Threads d	D	d2	Dimensions			
					h	b	t	n
		mm	mm	mm	mm	mm	mm	
EMF 2215	811 120/000	M22 x 1,5	40	34	9	6	2,5	4
EMF 3015	811 121/000	M30 x 1,5	50	43	10	7	3	4
EMF 3615	811 122/000	M36 x 1,5	58	50	11	8	3,5	4
EMF 4215	811 123/000	M42 x 1,5	62	54	12	8	3,5	4
EMF 4515	811 124/000	M45 x 1,5	68	60	12	8	3,5	6
EMF 5015	811 125/000	M50 x 1,5	75	67	13	8	3,5	6
EMF 5215	811 126/000	M52 x 1,5	80	70	13	10	4	6
EMF 6015	811 127/000	M60 x 1,5	90	80	13	10	4	6
EMF 7015	811 128/000	M70 x 1,5	100	90	14	10	4	6
EMF 7220	811 166/000	M72 x 2	110	100	14	10	4	6
EMF 7515	811 129/100	M75 x 1,5	110	100	14	10	4	6
EMF 8020	811 130/000	M80 x 2	115	105	16	10	4	6
EMF 8520	811 167/000	M85 x 2	120	110	16	10	4	6
EMF 9520	811 132/000	M95 x 2	135	120	16	12	5	6
EMF 10020	811 133/100	M100 x 2	145	130	16	12	5	6
EMF 10520	811 133/000	M105 x 2	155	140	16	12	5	6
EMF 11520	811 133/200	M115 x 2	165	150	18	12	5	6

# Positive clamping spring cylinder : **RS**

Thrust or traction  
Max force : 26 to 130 kN

## Characteristics

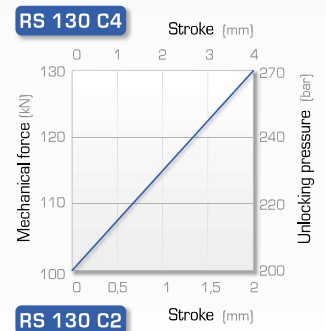
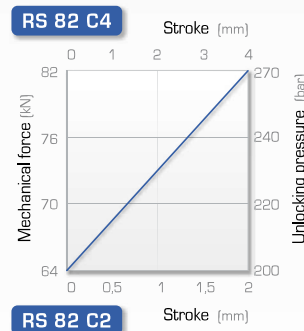
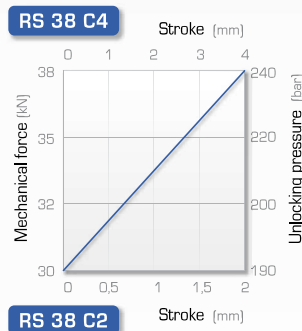
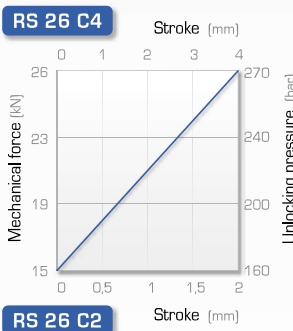
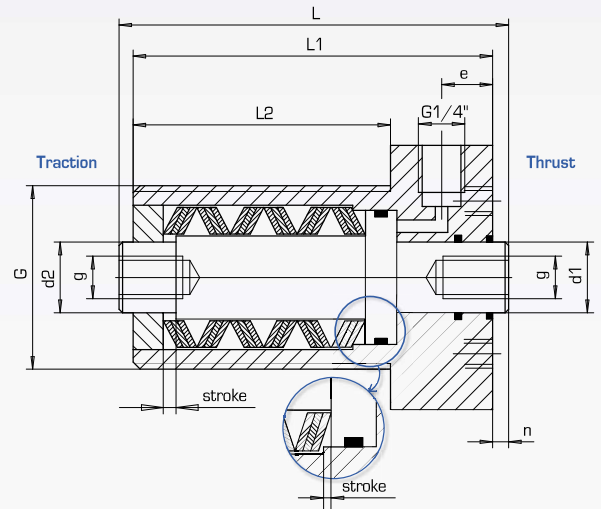
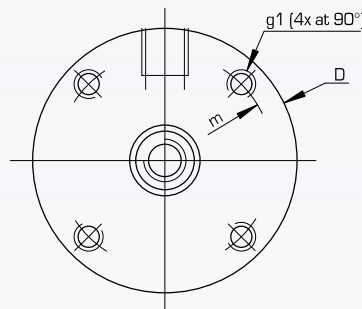
- disk spring maintain the clamping force
- force released by hydraulic pressure
- used to push or pull
- threaded body allowing numerous positioning options
- threaded holes on the head

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel

## Options

- special models on request



Order code of seal kit for RS cylinders : **11\* \*\*\*/900**

Example : For a RS 26, the seal kit code is : 111 130/900

Maximum pressure inside the cylinder : **350 bar (internal mechanical end-stop)**

F max	Stroke	Type	Order code	Dimensions												
				D	d1	d2	e	G	g	g1 [4x at 90°]	L	L1	L2	m	n	
kN	mm			mm	mm	mm	mm					mm	mm	mm	mm	mm
26	2	RS 26 C2	111 130/000	75	20	18	13	M52 x 1.5	M12 lg. 20	M6 lg. 15	104	98	73	56	5	
	4	RS 26 C4	111 130/100													
38	2	RS 38 C2	111 131/000	90	30	25	14	M75 x 1.5	M16 lg. 25	M10 lg. 20	111	105	80	70	5	
	4	RS 38 C4	111 131/100													
82	2	RS 82 C2	112 103/000	105	30	30	18	M85 x 2	M 16 lg. 30	M12 lg. 25	145	139	109	80	5	
	4	RS 82 C4	112 103/100													
130	2	RS 130 C2	112 104/000	130	50	40	23	M115 x 2	M24 lg. 30	M14 lg. 25	163	154	119	106	8	
	4	RS 130 C4	112 104/100													

# Hollow piston cylinder : PCS

Single acting - Spring return  
Max force at 350 bar : 13 to 131 kN

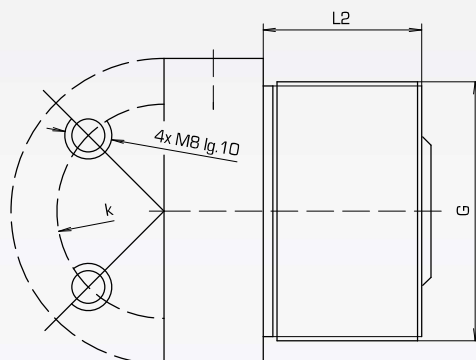
## Characteristics

- threaded holes at the base (standard)
- piston which includes a Heli-Coil ring, suffix **HC**

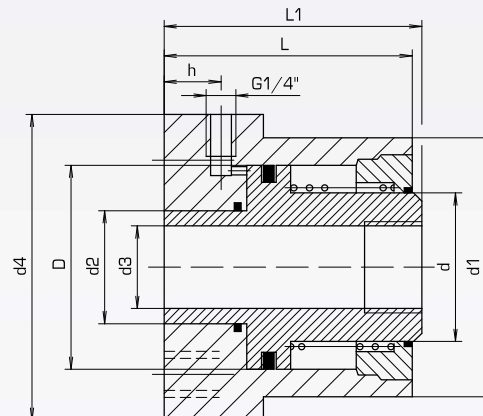
## Design

- steel body with anti-corrosion treatment
- piston made of treated steel
- thread for 8.8 standard quality screws

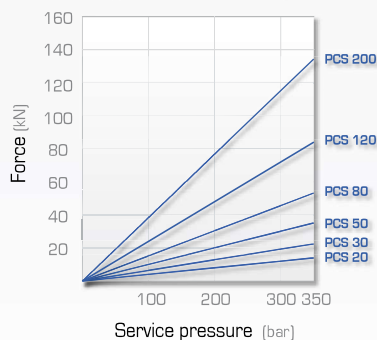
Type PCSF\_\_  
Threaded body



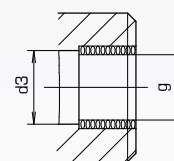
Type PCS\_\_  
Smooth body



Force



Type PCS(F)\_\_HC  
With Heli-Coil ring



Order code of seal kit for PCS cylinders : **171 0\*\*/900**  
Example : For a PCS 20, the seal kit code is : 171 035/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions												
							d1	d2	d3	d4	g HC	G	k	L	L1	L2	h		
kN	mm	cm²	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
13	10	3.77	25	16	PCS 20	171 035/000	40	12	8.2	50	M8	M40 x 1.5	35	59	60	36	12		
					PCS 20 HC	171 035/200													
					PCSF 20	171 035/100													
					PCSF 20 HC	171 035/300													
20	10	6.03	32	20	PCS 30	171 036/000	45	16	10.2	55	M10	M45 x 1.5	40	64	65	41	12		
					PCS 30 HC	171 036/200													
					PCSF 30	171 036/100													
					PCSF 30 HC	171 036/300													
32	12	9.42	40	25	PCS 50	171 037/000	55	20	12.2	65	M12	M55 x 1.5	45	71	72	45	15		
					PCS 50 HC	171 037/200													
					PCSF 50	171 037/100													
					PCSF 50 HC	171 037/300													
51	12	14.72	50	32	PCS 80	171 038/000	65	25	16.2	70	M16	M65 x 1.5	50	77	78	50	15		
					PCS 80 HC	171 038/200													
					PCSF 80	171 038/100													
					PCSF 80 HC	171 038/300													
80	16	23.12	63	40	PCS 120	171 039/000	80	32	20.2	80	M20	M80 x 2	60	95	96	95	19		
					PCS 120 HC	171 039/200													
					PCSF 120	171 039/100													
					PCSF 120 HC	171 039/300													
131	16	37.7	80	50	PCS 200	171 040/000	100	40	28.2	100	M27	M100 x 2	75	109	110	109	21		
					PCS 200 HC	171 040/200													
					PCSF 200	171 040/100													
					PCSF 200 HC	171 040/300													

# Hollow piston cylinder : PCD

Double acting

Max force at 350 bar : 13 to 131 kN

## Characteristics

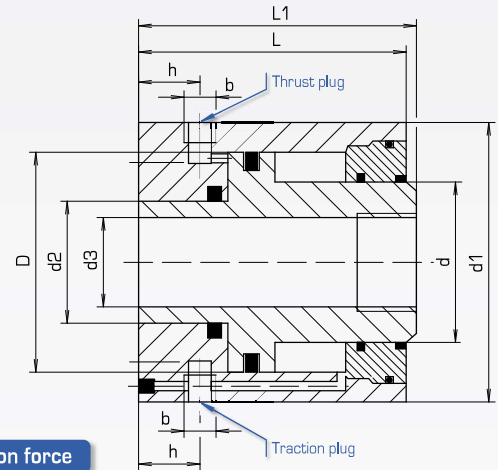
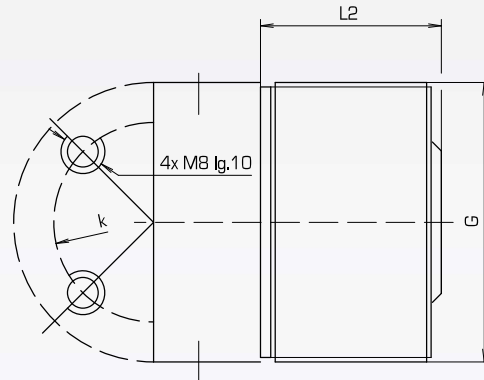
- threaded holes at the base (standard)
- piston which includes a Heli-Coil ring, suffix **HC**

## Design

- steel body with anti-corrosion treatment
- piston made of treated steel
- thread for 8.8 standard quality screws

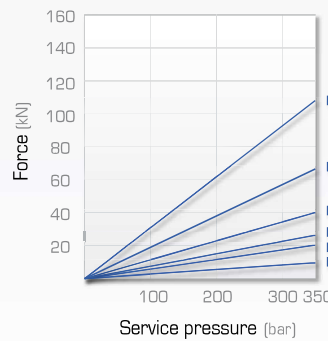
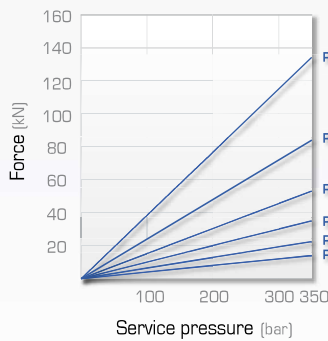
Type **PCDF\_\_**  
Threaded body

Type **PCD\_\_**  
Smooth body

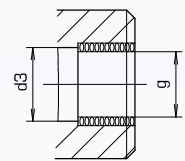


Thrust force

Traction force



Type **PCD(F)\_\_HC**  
With Heli-Coil ring



Order code of seal kit for PCD cylinders : **171 0\*\*/900**

Example : For a PCD 20, the seal kit code is : 171 041/900

F max at 350 bar	Stroke	Area extend	Piston øD	Rod ød	Type	Order code	Dimensions											
							d1	d2	d3	b	g HC	G	k	L	L1	L2	h	
kN	mm	cm²	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
P 13	10	P 3.77	25	16	PCD 20	171 041/000	50	12	8.2	G1/8"	M8	M50 x 1.5	35	59	60	36	11	
					PCD 20 HC	171 041/200												
					PCDF 20	171 041/100												
					PCDF 20 HC	171 041/300												
T 10		T 2.89			PCD 30	171 042/000	55	16	10.2	G1/4"	M10	M55 x 1.5	40	64	65	41	12	
					PCD 30 HC	171 042/200												
					PCDF 30	171 042/100												
					PCDF 30 HC	171 042/300												
P 20	10	P 6.03	32	20	PCD 50	171 043/000	65	20	12.2	G1/4"	M12	M65 x 1.5	45	72	73	45	14	
					PCD 50 HC	171 043/200												
					PCDF 50	171 043/100												
					PCDF 50 HC	171 043/300												
T 17		T 4.90			PCD 80	171 044/000	70	25	16.2	G1/4"	M16	M70 x 1.5	50	78	79	50	14	
					PCD 80 HC	171 044/200												
					PCDF 80	171 044/100												
					PCDF 80 HC	171 044/300												
P 32	16	P 9.42	40	25	PCD 120	171 045/000	80	32	20.2	G1/4"	M20	M80 x 2	60	95	96	60	18	
					PCD 120 HC	171 045/200												
					PCDF 120	171 045/100												
					PCDF 120 HC	171 045/300												
T 26		T 7.65			PCD 200	171 046/000	100	40	28.2	G1/4"	M27	M100 x 2	75	109	110	65	22	
					PCD 200 HC	171 046/200												
					PCDF 200	171 046/100												
					PCDF 200 HC	171 046/300												
P 51	16	P 14.72	50	32														
					PCD 80	171 044/000												
					PCD 80 HC	171 044/200												
					PCDF 80	171 044/100												
T 40		T 11.59																
					PCDF 80 HC	171 044/300												
P 80	20	P 23.12	63	40														
					PCD 120	171 045/000												
					PCD 120 HC	171 045/200												
					PCDF 120	171 045/100												
T 65		T 18.60																
					PCDF 120 HC	171 045/300												
P 131	25	P 37.68	80	50														
					PCD 200	171 046/000												
					PCD 200 HC	171 046/200												
					PCDF 200	171 046/100												
T 107		T 30.63																
					PCDF 200 HC	171 046/300												