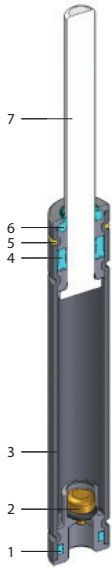
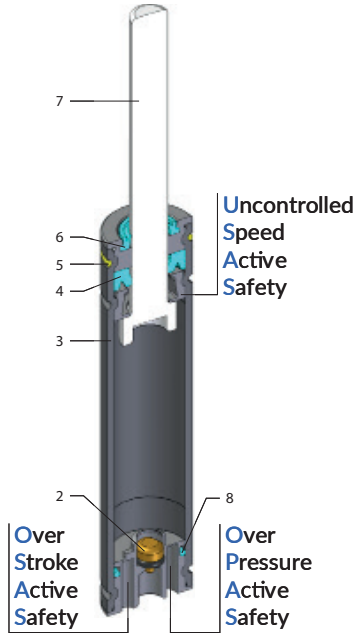


# CILINDRO M GAS SPRING M

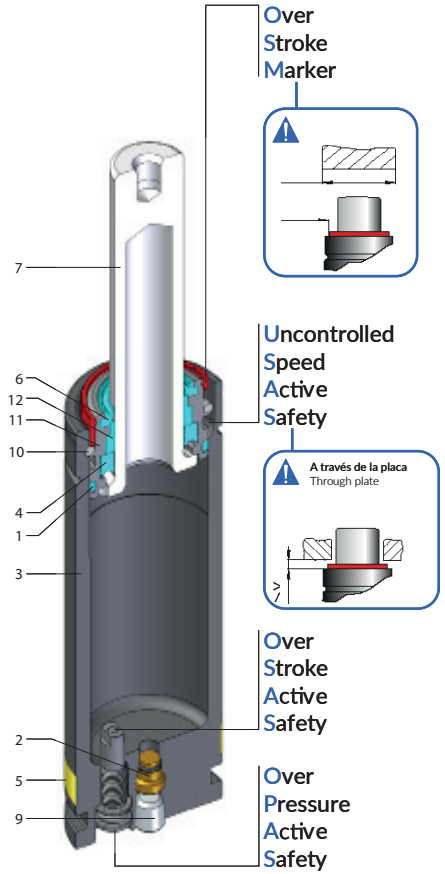
STOCK



M 50 - M 70



M 90 - M 200



M 300

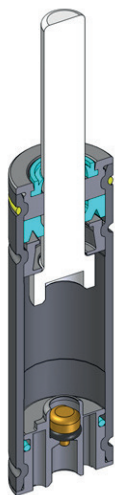
Standard: VDI

Model	Body Ø	Stroke Cu	Initial force F0	OSAS	USAS	OPAS	SKUDO	SW (optional)
	mm	mm	daN					
M50	12	7 - 125	6 - 50	-	-	-	-	•
M70	15	7 - 125	8 - 70	-	-	-	-	•
M90	19	7 - 125	5 - 90	•	•	•	-	•
M200	25	7 - 125	17 - 200	•	•	•	-	•
M300	32	7 - 125	80 - 320	•	•	-	-	•

1	Anillo dual / Dual ring seal
2	Válvula / Valve
3	Cuerpo / Body
4	Retén / Rod seal
5	Código de color de fuerza / Force color code
6	Retén / Rod wiper
7	Vástago (Nitrurado) / Rod (Nitrited Super finished)
8	Anillo-O / O-ring
9	Tapón / Stopper
10	Anillo de retención / Retaining ring
11	Casquillo / Bush
12	Anillo guía / Guide ring

## CILINDRO M GAS SPRING M

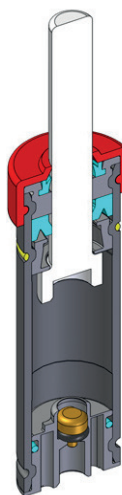
Versiones disponibles  
Available versions



Standard code



Cilindro  
GAS SPRING



Standard code + W



Cilindro  
GAS SPRING  
+  
Rascador secundario  
Secondary wiper



See p. Ct163

# CILINDRO M 90 GAS SPRING M 90



SW

Active safety



OSAS



USAS



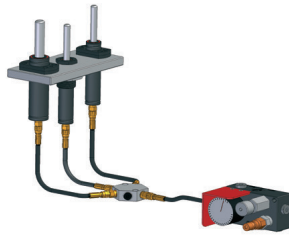
OPAS

\*  $F_{1_i}$  =  
Isothermal end  
force at 100% Cu

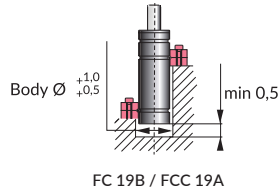
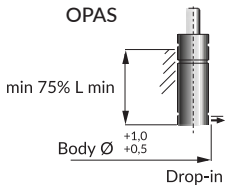
\*  $F_{1_p}$  =  
Polytropic end  
force at 100% Cu



Linkable with hoses

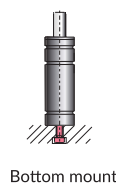


Assembly recommendation

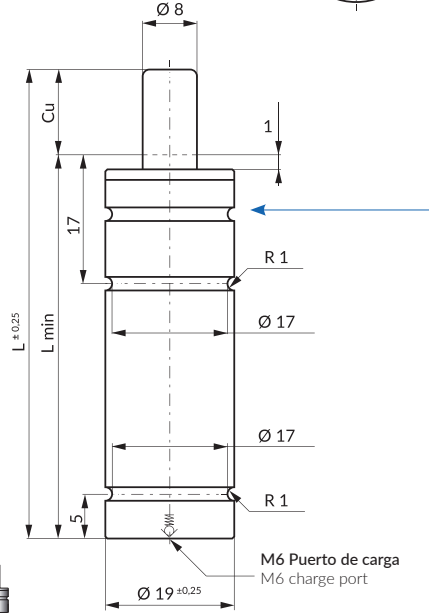
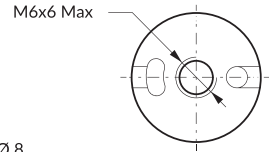


FC 19B / FCC 19A

See p. Ct147



Bottom mount



⚠ Only for SW (Secondary Wiper). Not for mounting.

Standard: ISO 11901-1, VDI 3003-Blatt 2

		$\Delta P$	P max	P min	S	SPM	Max Speed	Maintenance kit
N <sub>2</sub>	0 - 80°C	± 0,33 % / °C	180 bar	10 bar	0,50 cm <sup>2</sup>	~100 -150 (at 20°)	1,8 m/s	Not available

Code	Cu	L	L min	F <sub>0</sub> Initial force	F <sub>1</sub> End force*	V <sub>0</sub>	
	mm	mm	mm	daN	daN	cm <sup>3</sup> ~Kg	
M90 007	7	56	49	1,21 x F <sub>0</sub>	1,39 x F <sub>0</sub>	2,3	•
M90 010	10	62	52	1,25 x F <sub>0</sub>	1,44 x F <sub>0</sub>	2,9	•
M90 013	12,7	67,4	54,7	1,27 x F <sub>0</sub>	1,48 x F <sub>0</sub>	3,4	•
M90 015	15	72	57	1,28 x F <sub>0</sub>	1,5 x F <sub>0</sub>	3,9	•
M90 025	25	92	67	1,32 x F <sub>0</sub>	1,57 x F <sub>0</sub>	5,8	•
M90 038	38,1	118,2	80,1	1,35 x F <sub>0</sub>	1,6 x F <sub>0</sub>	8,4	•
M90 050	50	142	92	1,36 x F <sub>0</sub>	1,62 x F <sub>0</sub>	10,8	•
M90 063	63,5	172	108,5	1,36 x F <sub>0</sub>	1,62 x F <sub>0</sub>	13,7	•
M90 080	80	205	125	1,37 x F <sub>0</sub>	1,64 x F <sub>0</sub>	17	•
M90 100	100	245	145	1,37 x F <sub>0</sub>	1,65 x F <sub>0</sub>	20,9	•
M90 125	125	295	170	1,38 x F <sub>0</sub>	1,66 x F <sub>0</sub>	25,8	•

P = Nominal charging pressure

Force color code	P	F <sub>0</sub> Initial force ± 5%   +20°C
	bar	daN
OR	10	5
PR	20	10
GR	60	30
BU	100	50
RD	140	70
YW	180	90
BK	10-180	5-90

How to order: Code + Force color code