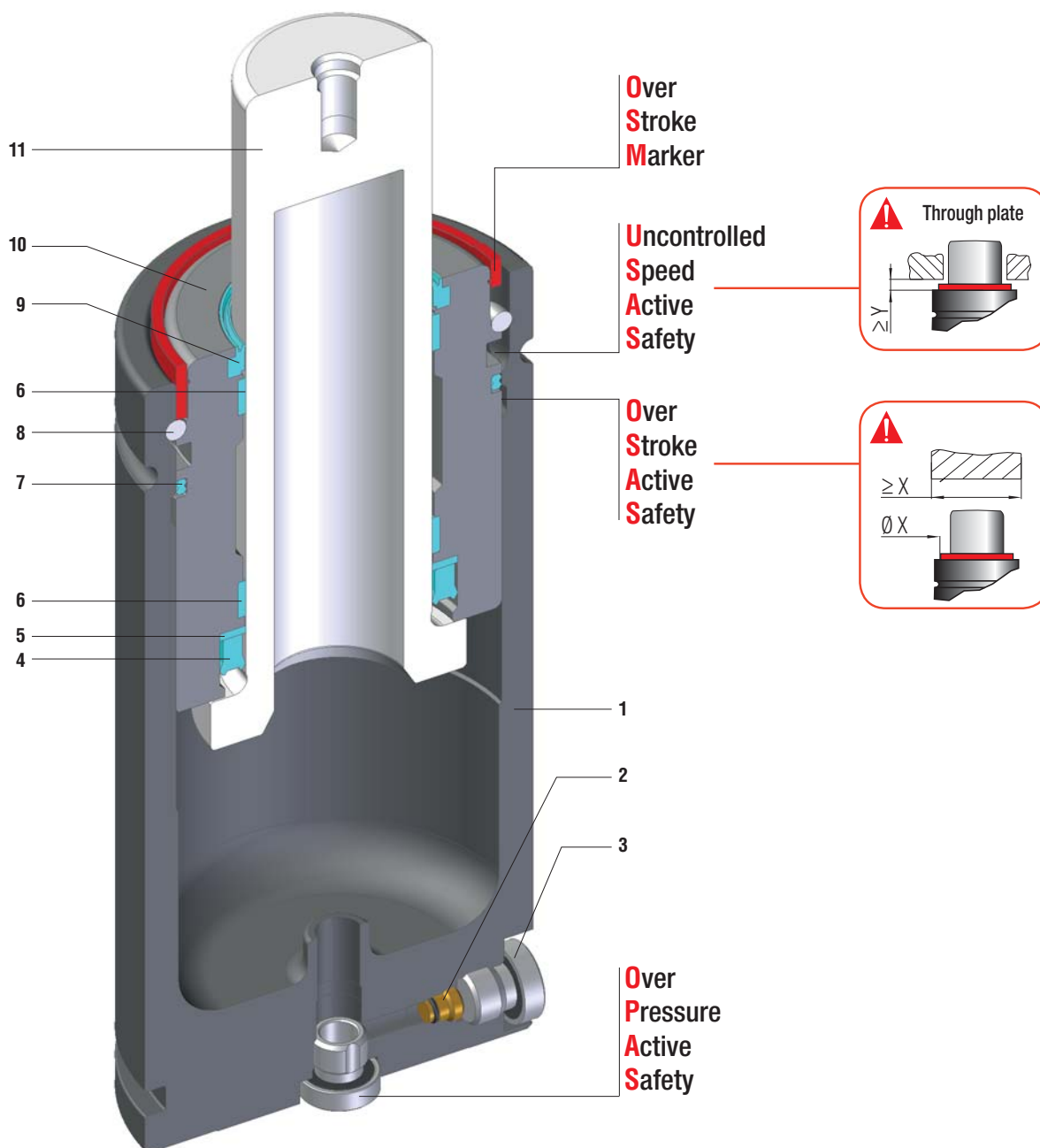


ISO	VDI	BMW
FCA	Ford	Mazda
MB	Nissan	PSA
Renault	Suzuki	VW



ISO 11901 standard - ISO 11901 standard - ISO 11901 standard
Conforme ISO 11901 - ISO 11901 standard - Norma ISO 11901

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

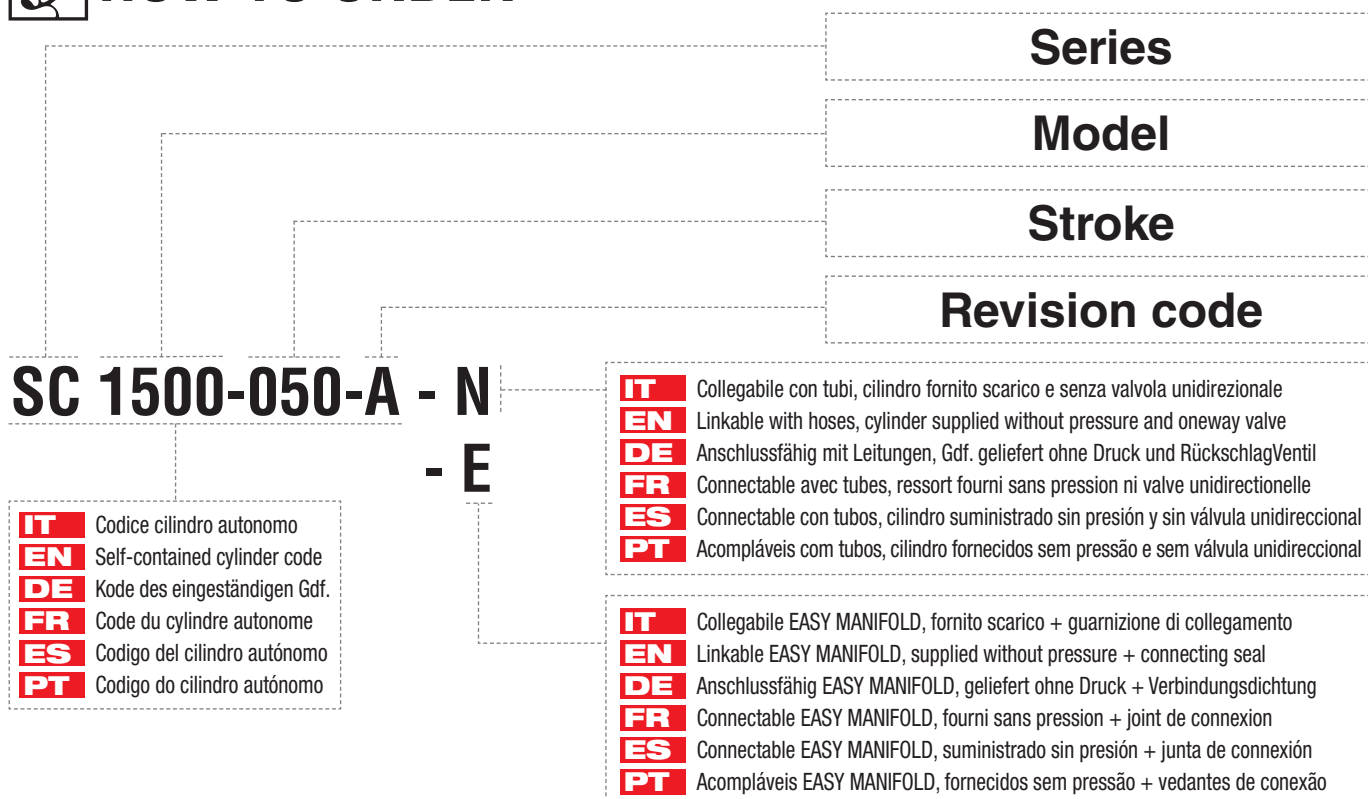
1	Body	5	Back-up ring	9	Rod wiper
2	Valve	6	Guide ring	10	Bush
3	Plug	7	Dual ring seal	11	Rod (nitrited superfinished)
4	Rod seal	8	Retaining ring		

RANGE CHART

Model	Body Ø		Stroke Cu		Initial force F0					
	mm	inch	mm	inch	daN	lb	OSAS	USAS	OPAS	SKUDO
SC 150	32	1.26	10 - 125	0.39 - 4.92	170	382	✓	✓	✓	-
SC 250	38	1.50	10 - 125	0.39 - 4.92	260	585	✓	✓	✓	-
SCF 250	M 38 X 1,5	M 38 X 1.5	10 - 125	0.39 - 4.92	260	585	✓	✓	✓	-
SC 500	45	1.77	10 - 200	0.39 - 6.30	470	1057	✓	✓	✓	-
SC 750	50	1.97	13 - 300	0.51 - 11.81	740	1664	✓	✓	✓	-
SC 1500	75	2.95	13 - 300	0.51 - 11.81	1530	3440	✓	✓	✓	-
SC 3000	95	3.74	13 - 300	0.51 - 11.81	2945	6621	✓	✓	✓	-
SC 5000	120	4.72	25 - 300	0.98 - 11.81	4980	11195	✓	✓	✓	-
SC 7500	150	5.91	25 - 300	0.98 - 11.81	7540	16950	✓	✓	✓	-
SC 10000	195	7.68	25 - 300	0.98 - 11.81	10600	23830	✓	✓	✓	-



HOW TO ORDER



ISO 11901 - 1 B8 3180 220 000 001(MB)	VDI 3003 E24.54.815.G (PSA)	075.90.55 (FCA) EM24.54.700 (Renault)	B2 4006 (BMW) 39D 878 (VW)
--	--------------------------------	--	-------------------------------



ACTIVE SAFETY

OSAS + OSM

OVER STROKE
ACTIVE
SAFETY

OVER
STROKE
MARKER



p. 211

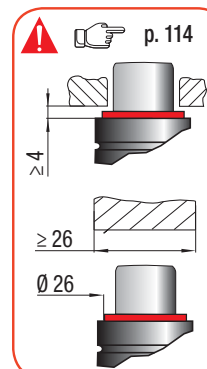
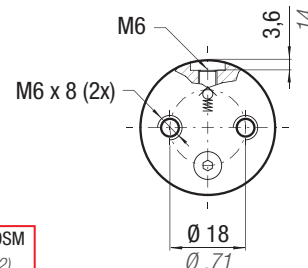
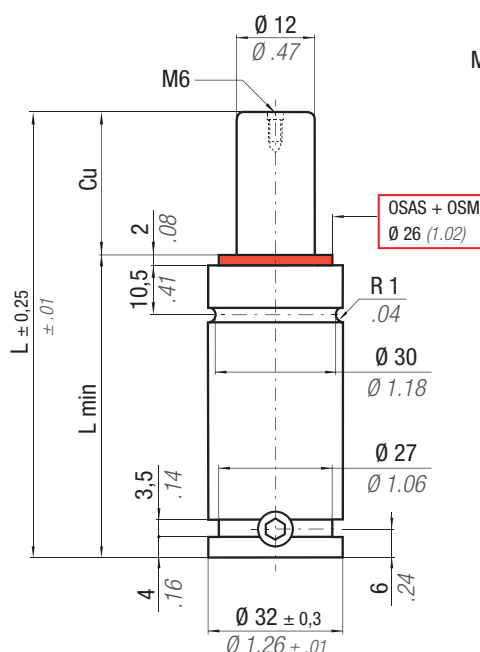
* F_{1i} =

Isothermal
end force
at 100% Cu

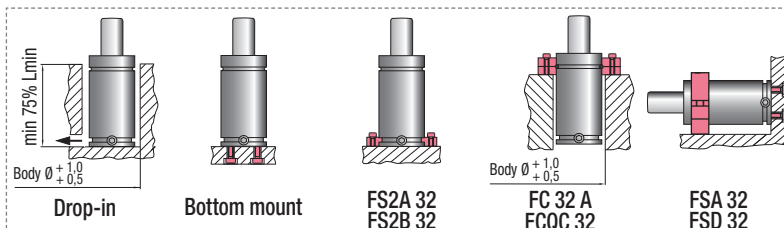
p. 16

** F_{1p} =

Polytropic
end force
at 100% Cu

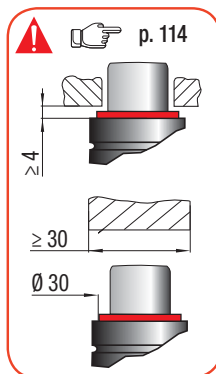
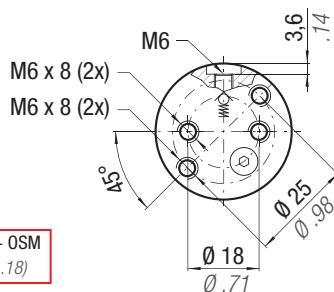
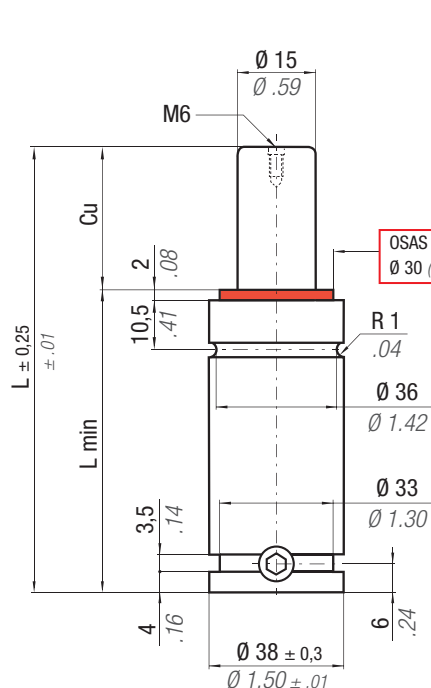


CODE	Cu	L	L min	F ₀	F _{1i} *	F _{1p} **	V ₀	Maintenance kit
	mm	mm	mm	Initial force	End force *	End force **	cm ³	39BMS00150E
	inch	inch	inch	daN	lb	daN	in ³	
SC 150 - 010 - D	10	70	60	170 ± 5% 382 150 bar 2175 psi + 20 °C + 68 °F	191	207	12,0	0,28
SC 150 - 013 - D	12,7	75,4	62,7		194	212	14,0	0,29
SC 150 - 016 - D	16	82	66		197	216	16,0	0,30
SC 150 - 025 - D	25	100	75		202	224	21,0	0,33
SC 150 - 038 - D	38	126	88		207	231	28,0	0,36
SC 150 - 050 - D	50	150	100		209	235	35,0	0,40
SC 150 - 063 - D	63,5	177	113,5		211	238	43,0	0,44
SC 150 - 080 - D	80	210	130		213	240	52,0	0,49
SC 150 - 100 - D	100	250	150		214	242	63,0	0,55
SC 150 - 125 - D	125	300	175		216	244	78,0	0,64



HOW TO ORDER

(10 pcs) SC 150-050-D
(10 pcs) SC 150-050-D-N


$$\boxed{\text{OSAS} + \text{OSM}} = \begin{matrix} \text{OVER STROKE} \\ \text{ACTIVE} \\ \text{SAFETY} \end{matrix} + \begin{matrix} \text{OVER} \\ \text{STROKE} \\ \text{MARKER} \end{matrix}$$


 p. 211

* $F1_i =$

Isothermal
end force
at 100% Cu

p. 16

**** F1_n =**

**Polytrophic
end force
at 100% Cu**

ACTIVE SAFETY



OSAS



USAS

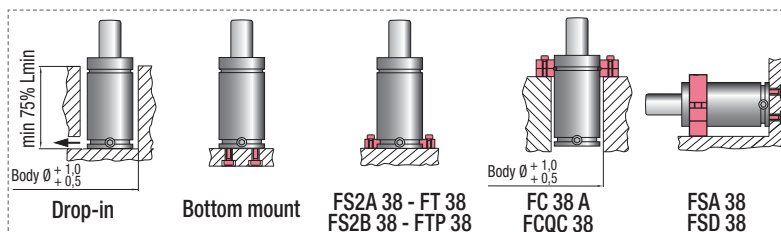


OPAS

 N₂	°F 32 176 	°C 0 80 	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 1,77 cm ² 0.274 in ²	SPM ~ 80 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMS00250E
--	---	---	--------------------------	-------------------------------------	-----------------------------------	---	---------------------------------------	-----------------------------	---------------------------------------

CODE	Cu		L		L min		Fo		F1i *		F1p **		Vo				 2014/68/EU
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm³	in³	~Kg	~lb	
SC 250 - 010 - D	10	0.39	70	2.76	60	2.36	260 ± 5% 585		303	682	332	746	16,0	0.98	0,40	0.88	✓
SC 250 - 013 - D	12,7	0.50	75,4	2.97	62,7	2.47			309	695	340	765	19,0	1.16	0,41	0.90	✓
SC 250 - 016 - D	16	0.63	82	3.23	66	2.60			315	707	348	783	21,0	1.28	0,43	0.95	✓
SC 250 - 019 - D	19	0.75	88	3.46	69	2.72			319	717	354	797	23,0	1.40	0,45	0.99	✓
SC 250 - 025 - D	25	0.98	100	3.94	75	2.95			325	731	364	818	28,0	1.71	0,48	1.06	✓
SC 250 - 038 - D	38	1.50	126	4.96	88	3.46	150 bar		334	751	377	848	38,0	2.32	0,54	1.19	✓
SC 250 - 050 - D	50	1.97	150	5.91	100	3.94	2175 psi		339	762	385	865	47,0	2.87	0,60	1.32	✓
SC 250 - 063 - D	63,5	2.50	177	6.97	113,5	4.47	+ 20 °C +68 °F		343	771	391	878	58,0	3.54	0,66	1.46	✓
SC 250 - 080 - D	80	3.15	210	8.27	130	5.12			346	778	395	889	70,0	4.27	0,74	1.63	✓
SC 250 - 100 - D	100	3.94	250	9.84	150	5.91			349	784	399	898	85,0	5.19	0,81	1.79	✓
SC 250 - 125 - D	125	4.92	300	11.81	175	6.89			351	789	403	906	105,0	6.41	0,98	2.16	✓

SC
SCF



HOW TO ORDER

(10 pcs) SC 250-050-D
(10 pcs) SC 250-050-D-N



ACTIVE SAFETY



OSAS



USAS



OPAS

OSAS + OSM = OVER STROKE
ACTIVE SAFETY + OVER
STROKE MARKER

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist

Le nouveau code sera fourni uniquement lorsque le vieux stock sera épuisé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

* F_{1i} =

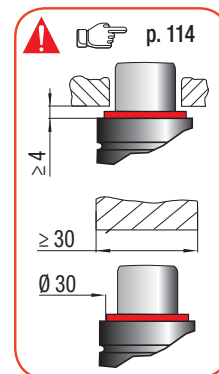
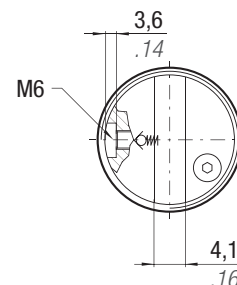
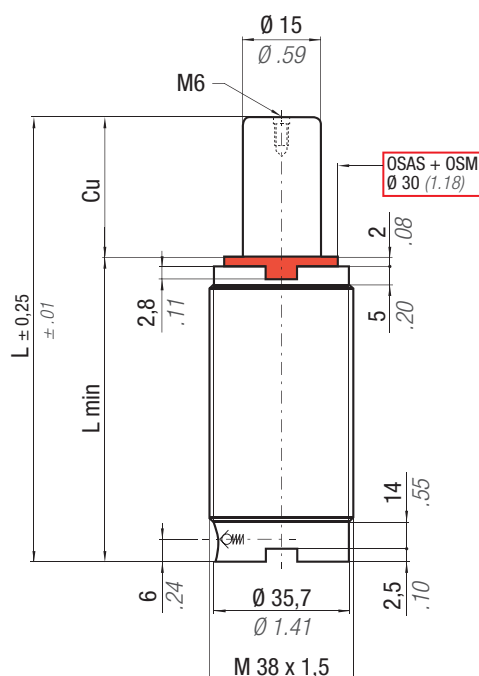
Isothermal
end force
at 100% Cu



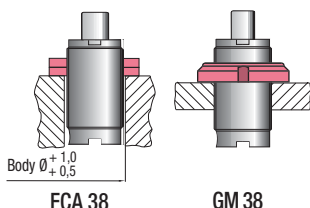
p. 16

** F_{1p} =

Polytropic
end force
at 100% Cu



 N ₂		°F 32 - 176 °C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 1,77 cm ² 0,274 in ²	SPM ~ 80 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMSC00250E									
CODE PHASING OUT from 09/2009	 NEW	Cu		L		L min		F ₀ Initial force		F _{1i} * End force		F _{1p} ** End force		V ₀				
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
SCF 250 - 010 - A	SCF 250 - 010 - D	10	0.39	70	2.76	60	2.36	260 585 ± 5%		303	682	332	746	16,0	0.98	0,37	0.81	✓
SCF 250 - 013 - A	SCF 250 - 013 - D	12,7	0.50	75,4	2.97	62,7	2.47			309	695	340	765	19,0	1.16	0,38	0.84	✓
SCF 250 - 016 - A	SCF 250 - 016 - D	16	0.63	82	3.23	66	2.60			315	707	348	783	21,0	1.28	0,39	0.86	✓
-	SCF 250 - 019 - D	19	0.75	88	3.46	69	2.72			319	717	354	797	23,0	1.40	0,42	0.92	✓
SCF 250 - 025 - A	SCF 250 - 025 - D	25	0.98	100	3.94	75	2.95			325	731	364	818	28,0	1.71	0,44	0.97	✓
SCF 250 - 038 - A	SCF 250 - 038 - D	38	1.50	126	4.96	88	3.46	150 bar 2175 psi	+ 20 °C +68 °F	334	751	377	848	38,0	2.32	0,50	1.10	✓
SCF 250 - 050 - A	SCF 250 - 050 - D	50	1.97	150	5.91	100	3.94			339	762	385	865	47,0	2.87	0,55	1.21	✓
SCF 250 - 063 - A	SCF 250 - 063 - D	63,5	2.50	177	6.97	113,5	4.47			343	771	391	878	58,0	3.54	0,63	1.39	✓
SCF 250 - 080 - A	SCF 250 - 080 - D	80	3.15	210	8.27	130	5.12			346	778	395	889	70,0	4.27	0,70	1.54	✓
SCF 250 - 100 - A	SCF 250 - 100 - D	100	3.94	250	9.84	150	5.91			349	784	399	898	86,0	5.25	0,75	1.65	✓
SCF 250 - 125 - A	SCF 250 - 125 - D	125	4.92	300	11.81	175	6.89			351	789	403	906	105,0	6.41	0,93	2.05	✓

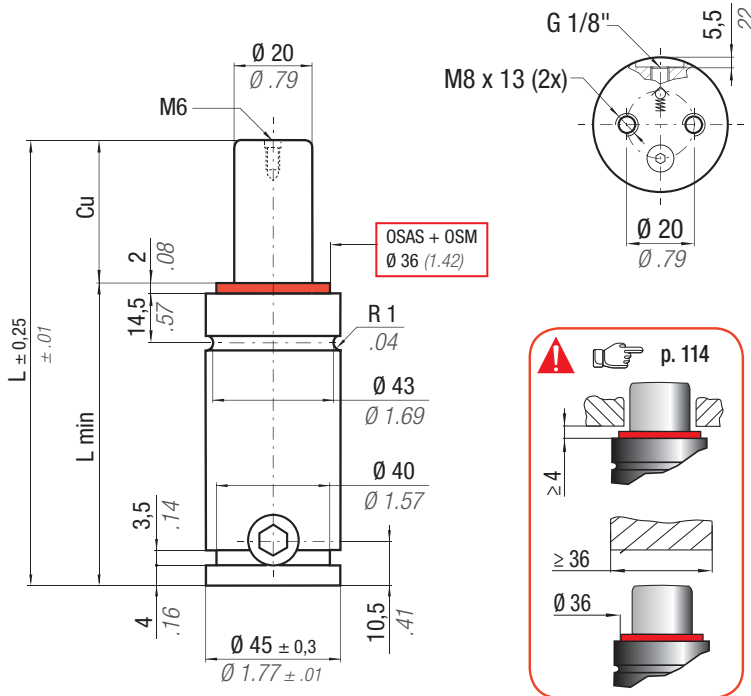


HOW TO ORDER

(10 pcs) SCF250-050-D

(10 pcs) SCF250-050-D-N

ISO 11901 - 1	VDI 3003	B2 4006 (BMW)	075.90.55 (FCA)
PG23D (Mazda)	B8 3180 220 000 001(MB)	K 32 S (Nissan)	E24.54.815.G (PSA)
EM24.54.700 (Renault)	SES-K 5404e (Suzuki)	39D 878 (VW)	



OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist

Le nouveau code sera fourni uniquement lorsque le vieux stock sera écoulé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIFOLD  p. 211

* F_{1i} =

Isothermal end force at 100% Cu

 p. 16

** F_{1p} =

Polytrophic end force at 100% Cu



ACTIVE SAFETY



OSAS



USAS

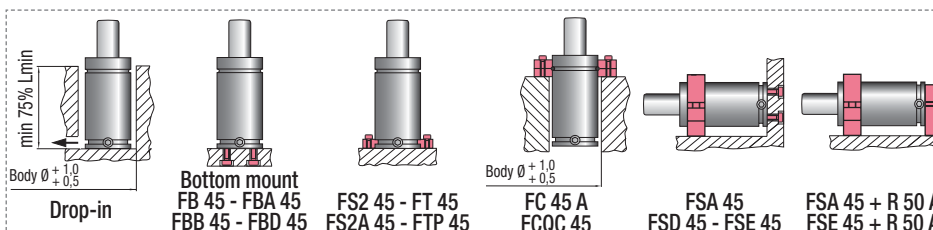


OPAS

 N₂	°F 32 176	°C 0 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 3,14 cm ² 0.487 in ²	SPM ~ 40 - 80 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMS00500D
--	------------------------	----------------------	--------------------------	-------------------------------------	-----------------------------------	---	--------------------------------------	-----------------------------	---------------------------------------

CODE	NEW	Cu	L	L min	F ₀	F _{1i} *	F _{1p} **	V ₀		PED
PHASING OUT from 01/2014		mm inch	mm inch	mm inch	Initial force daN lb	End force daN lb	End force daN lb	cm ³ in ³	~Kg ~lb	2014/68/EU
-	SC 500 - 010 - D	10 0.39	105 4.13	95 3.74	470 1057 ± 5% 150 bar 2175 psi + 20 °C +68 °F	595 1338	673 1512	18,0 1.10	0,90 1.98	✓
SC 500 - 013 - B	SC 500 - 013 - D	12,7 0.50	110,4 4.35	97,7 3.85		611 1373	696 1565	20,0 1.22	1,00 2.20	✓
SC 500 - 025 - B	SC 500 - 025 - D	25 0.98	135 5.31	110 4.33		652 1466	759 1707	33,0 2.01	1,09 2.40	✓
SC 500 - 038 - B	SC 500 - 038 - D	38 1.50	161 6.34	123 4.84		673 1513	792 1780	46,0 2.81	1,20 2.65	✓
SC 500 - 050 - B	SC 500 - 050 - D	50 1.97	185 7.28	135 5.31		685 1539	810 1820	58,0 3.54	1,29 2.84	✓
SC 500 - 063 - B	SC 500 - 063 - D	63,5 2.50	212 8.35	148,5 5.85		693 1558	823 1850	72,0 4.39	1,38 3.04	✓
SC 500 - 080 - B	SC 500 - 080 - D	80 3.15	245 9.65	165 6.50		700 1573	834 1875	89,0 5.43	1,50 3.31	✓
SC 500 - 100 - B	SC 500 - 100 - D	100 3.94	285 11.22	185 7.28		706 1586	843 1895	109,0 6.65	1,64 3.62	✓
SC 500 - 125 - B	SC 500 - 125 - D	125 4.92	335 13.19	210 8.27		710 1597	850 1912	135,0 8.24	1,85 4.08	✓
SC 500 - 160 - B	SC 500 - 160 - D	160 6.30	405 15.94	245 9.65		715 1606	857 1927	170,0 10.37	2,10 4.63	✓
-	SC 500 - 200 - D	200 7.87	485 19.09	285 11.22		728 1637	878 1974	205,0 12.51	2,36 5.20	✓

SC SCF



HOW TO ORDER

(10 pcs) SC 500-050-D
(10 pcs) SC 500-050-D-N

ISO 11901 - 1	VDI 3003	B2 4006 (BMW)	075.90.55 (FCA)
W-DX35-6203 (Ford)	PG23D (Mazda)	B8 3180 220 000 001(MB)	K 32 S (Nissan)
E24.54.815.G (PSA)	EM24.54.700 (Renault)	SES-K 5404e (Suzuki)	39D 878 (VW)



ACTIVE SAFETY



OSAS



USAS



OPAS

OVER STROKE
OVER SAFETY
OVER STROKE
MARKER

OSAS + OSM

Il nuovo codice sarà fornito solo ad esaurimento del vecchio
The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist

Le nouveau code sera fourni uniquement lorsque le vieux stock sera épuisé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIFOLD p. 211

* F_{1i} =

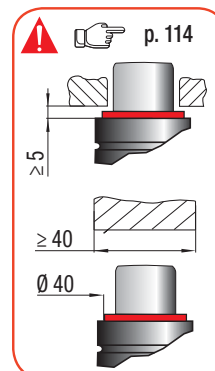
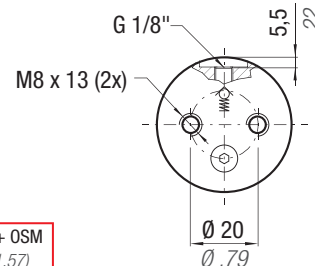
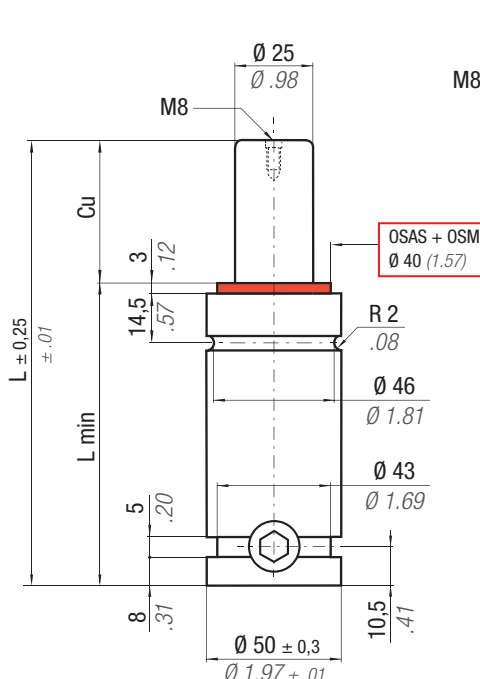
Isothermal
end force
at 100% Cu



p. 16

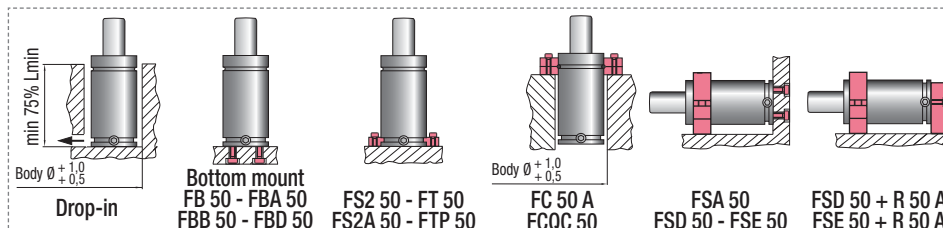
** F_{1p} =

Polytropic
end force
at 100% Cu



N₂	°F 32 -176	°C 0 -80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4,91 cm ² 0,761 in ²	SPM ~ 15 - 50 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMS00750D
----------------------	-------------------------	-----------------------	--------------------------	-------------------------------------	-----------------------------------	---	--------------------------------------	-----------------------------	---------------------------------------

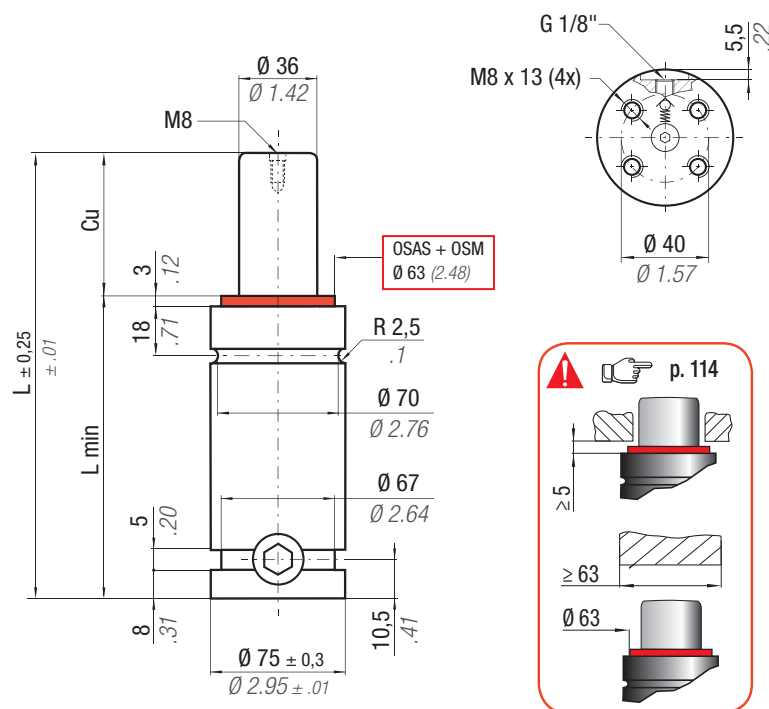
CODE		NEW		Cu		L		L min		F0		F1i *		F1p **		Vo				PED	
PHASING OUT				mm	inch	mm	inch	mm	inch	Initial force		End force		End force		cm³	in³	~Kg	~lb	2014/68/EU	
from 01/2014										daN	lb	daN	lb	daN	lb						
SC 750 - 013 - B	SC 750 - 013 - D	12,7	0.50	120,4	4.74	107,7	4.24					902	2028	1009	2269	40,0	2.44	1,24	2.73		✓
SC 750 - 025 - B	SC 750 - 025 - D	25	0.98	145	5.71	120	4.72					977	2197	1122	2523	58,0	3.54	1,34	2.95		✓
SC 750 - 038 - B	SC 750 - 038 - D	38	1.50	171	6.73	133	5.24					1023	2300	1192	2681	77,0	4.70	1,45	3.20		✓
SC 750 - 050 - B	SC 750 - 050 - D	50	1.97	195	7.68	145	5.71					1050	2362	1235	2777	95,0	5.80	1,54	3.40		✓
SC 750 - 063 - B	SC 750 - 063 - D	63,5	2.50	222	8.74	158,5	6.24					1072	2410	1269	2854	115,0	7.02	1,65	3.64		✓
-	SC 750 - 075 - D	 75	2.95	245	9.65	170	6.69					1086	2441	1291	2902	132,0	8.05	1,75	3.86		✓
SC 750 - 080 - B	SC 750 - 080 - D	80	3.15	255	10.04	175	6.89					1091	2452	1299	2920	140,0	8.54	1,79	3.95		✓
-	SC 750 - 088 - D	 88	3.46	270	10.63	182	7.17			740	1664	1101	2475	1314	2954	150,0	9.15	1,85	4.08		✓
SC 750 - 100 - B	SC 750 - 100 - D	100	3.94	295	11.61	195	7.68			± 5%		1107	2488	1324	2976	169,0	10.31	1,96	4.32		✓
-	SC 750 - 113 - D	 113	4.45	320	12.60	207	8.15					1117	2511	1340	3012	188,0	11.47	2,06	4.54		✓
SC 750 - 125 - B	SC 750 - 125 - D	125	4.92	345	13.58	220	8.66			150 bar		1121	2519	1346	3026	206,0	12.57	2,16	4.76		✓
-	SC 750 - 138 - D	 138	5.43	370	14.57	232	9.13			2175 psi		1131	2543	1363	3064	224,0	13.66	2,27	5.00		✓
-	SC 750 - 150 - D	 150	5.91	395	15.55	245	9.65			+ 20 °C +68 °F		1140	2563	1378	3098	239,0	14.58	2,39	5.27		✓
SC 750 - 160 - B	SC 750 - 160 - D	160	6.30	415	16.34	255	10.04					1149	2582	1391	3126	252,0	15.37	2,49	5.49		✓
-	SC 750 - 175 - D	 175	6.89	445	17.52	270	10.63					1160	2608	1408	3165	271,0	16.53	2,64	5.82		✓
SC 750 - 200 - B	SC 750 - 200 - D	200	7.87	495	19.49	295	11.61					1175	2642	1434	3223	302,0	18.42	2,89	6.37		✓
-	SC 750 - 225 - D	 225	8.86	545	21.46	320	12.60					1188	2671	1455	3271	334,0	20.37	3,13	6.90		✓
SC 750 - 250 - B	SC 750 - 250 - D	250	9.84	595	23.43	345	13.58					1199	2696	1472	3310	365,0	22.27	3,32	7.32		✓
-	SC 750 - 275 - D	 275	10.83	645	25.39	370	14.57					1208	2716	1488	3345	396,0	24.16	3,63	8.00		✓
SC 750 - 300 - B	SC 750 - 300 - D	300	11.81	695	27.36	395	15.55					1216	2735	1501	3374	428,0	26.11	3,88	8.55		✓



HOW TO ORDER

(10 pcs) SC 750-050-D
(10 pcs) SC 750-050-D-N

ISO 11901 - 1	VDI 3003	B2 4006 (BMW)	075.90.55 (FCA)
W-DX35-6203 (Ford)	PG23D (Mazda)	B8 3180 220 000 001(MB)	K 32 S (Nissan)
E24.54.815.G (PSA)	EM24.54.700 (Renault)	SES-K 5404e (Suzuki)	39D 878 (VW)



OSAS + OSM = OVER STROKE SAFETY + OVER STROKE MARKER

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist

Le nouveau code sera fourni uniquement lorsque le vieux stock sera écoulé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIFOLD  p. 211

* F_i =

Isothermal end force at 100% Cu

** F_p =

Polytrophic end force at 100% Cu



ACTIVE SAFETY



OSAS



USAS

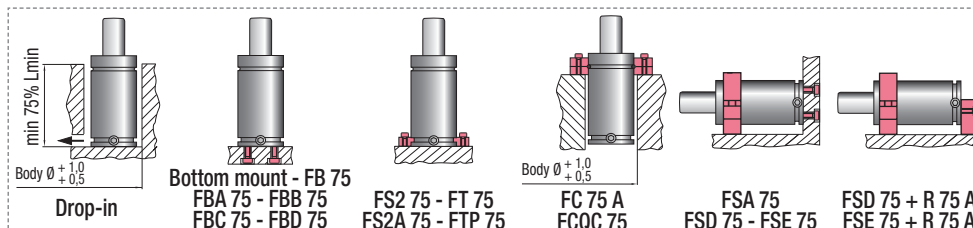


OPAS

 N ₂	°F 32 176	°C 0 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 10,18 cm ² 1.578 in ²	SPM ~ 15 - 50 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMS01500D Cu 13 ÷ 80 39BMS01500DH Cu 88 ÷ 300
---	-----------------	---------------	-------------------	------------------------------	----------------------------	---	-------------------------------	----------------------	---

CODE PHASING OUT from 01/2014	NEW	Cu mm inch	L mm inch	L min mm inch	F ₀ Initial force daN lb	F _i * End force * daN lb	F _p ** End force ** daN lb	V ₀ cm ³ in ³		
-	SC 1500 - 013 - D	13 0.51	135 5.31	122 4.80	1530 3440 ± 5%	1819 4089	2016 4532	97,0 5.92	3,26 7.19	✓
SC 1500 - 025 - B	SC 1500 - 025 - D	25 0.98	160 6.30	135 5.31		1925 4329	2174 4888	144,0 8.78	3,47 7.65	✓
SC 1500 - 038 - B	SC 1500 - 038 - D	38 1.50	186 7.32	148 5.83		2000 4496	2287 5141	191,0 11.65	3,67 8.09	✓
SC 1500 - 050 - B	SC 1500 - 050 - D	50 1.97	210 8.27	160 6.30		2045 4596	2355 5294	234,0 14.27	3,85 8.49	✓
SC 1500 - 063 - B	SC 1500 - 063 - D	63,5 2.50	237 9.33	173,5 6.83		2080 4675	2409 5415	283,0 17.26	4,05 8.93	✓
-	SC 1500 - 075 - D	75 2.95	260 10.24	185 7.28		2102 4725	2443 5492	324,0 19.76	4,23 9.33	✓
SC 1500 - 080 - B	SC 1500 - 080 - D	80 3.15	270 10.63	190 7.48		2110 4743	2455 5519	342,0 20.86	4,30 9.48	✓
-	SC 1500 - 088 - D	88 3.46	285 11.22	197 7.76		2130 4788	2486 5589	367,0 22.39	4,42 9.74	✓
SC 1500 - 100 - B	SC 1500 - 100 - D	100 3.94	310 12.20	210 8.27		2136 4802	2495 5609	414,0 25.25	4,60 10.14	✓
-	SC 1500 - 113 - D	113 4.45	335 13.19	222 8.74		2151 4836	2520 5665	459,0 28.00	4,78 10.54	✓
SC 1500 - 125 - B	SC 1500 - 125 - D	125 4.92	360 14.17	235 9.25	150 bar 2175 psi + 20 °C +68 °F	2158 4851	2529 5685	505,0 30.81	4,97 10.96	✓
-	SC 1500 - 138 - D	138 5.43	385 15.16	247 9.72		2169 4876	2548 5728	550,0 33.55	5,16 11.38	✓
-	SC 1500 - 150 - D	150 5.91	410 16.14	260 10.24		2173 4885	2554 5742	595,0 36.30	5,35 11.79	✓
SC 1500 - 160 - B	SC 1500 - 160 - D	160 6.30	430 16.93	270 10.63		2178 4896	2562 5760	631,0 38.49	5,50 12.13	✓
-	SC 1500 - 175 - D	175 6.89	460 18.11	285 11.22		2185 4912	2572 5782	685,0 41.79	5,73 12.63	✓
SC 1500 - 200 - B	SC 1500 - 200 - D	200 7.87	510 20.08	310 12.20		2198 4941	2592 5828	772,0 47.09	6,13 13.51	✓
-	SC 1500 - 225 - D	225 8.86	560 22.05	335 13.19		2219 4989	2625 5901	850,0 51.85	6,60 14.55	✓
SC 1500 - 250 - B	SC 1500 - 250 - D	250 9.84	610 24.02	360 14.17		2236 5027	2652 5962	928,0 56.61	7,08 15.61	✓
-	SC 1500 - 275 - D	275 10.83	660 22.05	385 15.16		2251 5060	2676 6016	1006,0 61.37	7,55 16.64	✓
SC 1500 - 300 - B	SC 1500 - 300 - D	300 11.81	710 27.95	410 16.14		2264 5089	2696 6061	1084,0 66.12	8,02 17.68	✓

SC
SCF



HOW TO ORDER

(10 pcs) SC 1500-050-D

(10 pcs) SC 1500-050-D-N

ISO 11901 - 1	VDI 3003	B2 4006 (BMW)	075.90.55 (FCA)
W-DX35-6203 (Ford)	PG23D (Mazda)	B8 3180 220 000 001(MB)	K 32 S (Nissan)
E24.54.815.G (PSA)	EM24.54.700 (Renault)	SES-K 5404e (Suzuki)	39D 878 (VW)



ACTIVE SAFETY



OSAS



USAS



OPAS

OVER STROKE
OVER SAFETY
OVER STROKE
MARKER

OSAS + OSM

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist

Le nouveau code sera fourni uniquement lorsque le vieux stock sera épuisé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIFOLD p. 211

* F_{1i} =

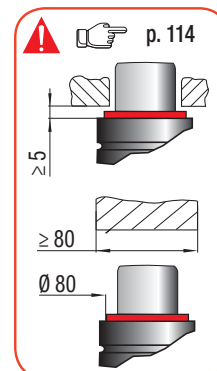
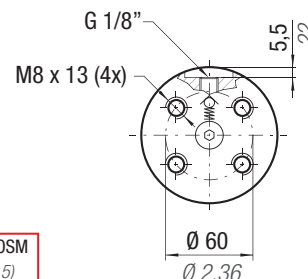
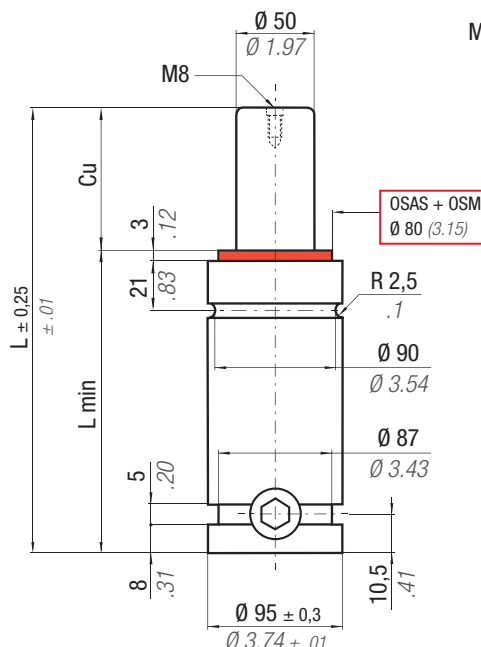
Isothermal
end force
at 100% Cu



p. 16

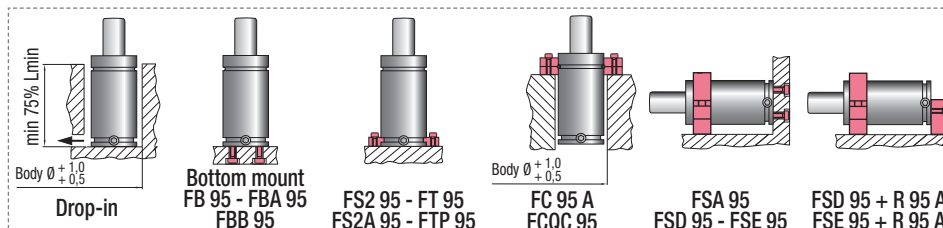
** F_{1p} =

Polytropic
end force
at 100% Cu



N₂	°F 32 -176	°C 0 -80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 19,63 cm ² 3.043 in ²	SPM ~ 15 - 50 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMS03000D Cu 13 ÷ 80 39BMS03000DH Cu 88 ÷ 300
----------------------	-------------------------	-----------------------	--------------------------	-------------------------------------	-----------------------------------	--	--------------------------------------	-----------------------------	--

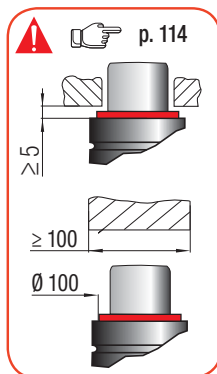
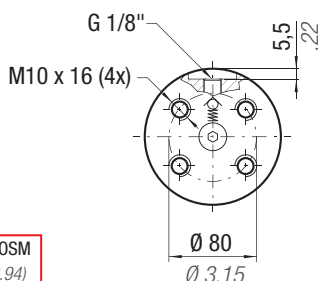
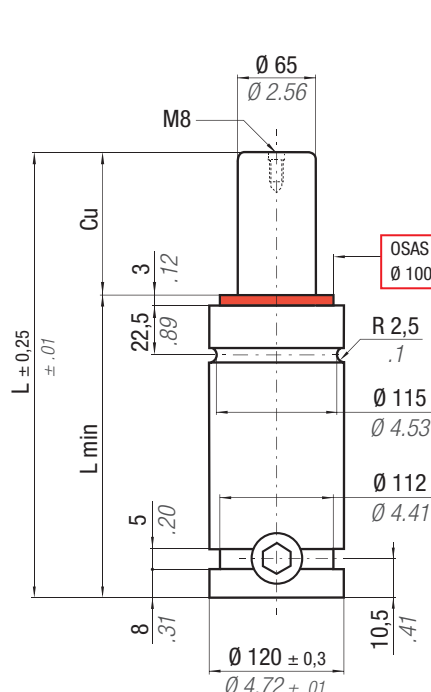
CODE	NEW	Cu	L	L min	F ₀	F _{1i} *	F _{1p} **	V ₀		
PHASING OUT		mm	inch	mm	inch	daN	lb	cm ³	in ³	~Kg
from 01/2014										~lb
-	SC 3000 - 013 - D	13 0.51	145 5.71	132 5.20	2945 6621 ± 5%	3528 7931	3917 8806	181,0 11.04	5,57 12.28	✓
SC 3000 - 025 - B	SC 3000 - 025 - D	25 0.98	170 6.69	145 5.71		3775 8487	4286 9636	261,0 15.92	5,90 13.01	✓
SC 3000 - 038 - B	SC 3000 - 038 - D	38 1.50	196 7.72	158 6.22		3955 8891	4559 10250	340,0 20.74	6,21 13.69	✓
SC 3000 - 050 - B	SC 3000 - 050 - D	50 1.97	220 8.66	170 6.69		4067 9143	4732 10638	413,0 25.19	6,50 14.33	✓
SC 3000 - 063 - B	SC 3000 - 063 - D	63,5 2.50	247 9.72	183,5 7.22		4158 9347	4873 10954	496,0 30.26	6,83 15.06	✓
-	SC 3000 - 075 - D	75 2.95	270 10.63	195 7.68		4216 9478	4964 11160	566,0 34.53	7,10 15.65	✓
SC 3000 - 080 - B	SC 3000 - 080 - D	80 3.15	280 11.02	200 7.87		4238 9527	4997 11234	596,0 36.36	7,22 15.92	✓
-	SC 3000 - 088 - D	88 3.46	295 11.61	207 8.15		4277 9615	5059 11373	642,0 39.16	7,41 16.34	✓
SC 3000 - 100 - B	SC 3000 - 100 - D	100 3.94	320 12.60	220 8.66		4307 9683	5105 11476	718,0 43.80	7,67 16.91	✓
-	SC 3000 - 113 - D	113 4.45	345 13.58	232 9.13		4348 9775	5171 11625	795,0 48.50	7,97 17.57	✓
SC 3000 - 125 - B	SC 3000 - 125 - D	125 4.92	370 14.57	245 9.65	150 bar 2175 psi	4367 9817	5201 11692	871,0 53.13	8,27 18.23	✓
-	SC 3000 - 138 - D	138 5.43	395 15.55	257 10.12		4398 9887	5250 11802	947,0 57.77	8,57 18.89	✓
-	SC 3000 - 150 - D	150 5.91	420 16.54	270 10.63		4411 9916	5270 11847	1023,0 62.40	8,87 19.56	✓
SC 3000 - 160 - B	SC 3000 - 160 - D	160 6.30	440 17.32	280 11.02		4425 9948	5292 11897	1085,0 66.19	9,11 20.08	✓
-	SC 3000 - 175 - D	175 6.89	470 18.50	295 11.61		4443 9988	5322 11964	1176,0 71.74	9,47 20.88	✓
SC 3000 - 200 - B	SC 3000 - 200 - D	200 7.87	520 20.47	320 12.60		4469 10047	5362 12055	1329,0 81.07	10,08 22.22	✓
-	SC 3000 - 225 - D	225 8.86	570 22.44	345 13.58		4489 10092	5395 12128	1481,0 90.34	10,68 23.55	✓
SC 3000 - 250 - B	SC 3000 - 250 - D	250 9.84	620 24.41	370 14.57		4506 10130	5422 12189	1634,0 99.67	11,28 24.87	✓
-	SC 3000 - 275 - D	275 10.83	670 26.38	395 15.55		4520 10161	5444 12239	1786,0 108.95	11,88 26.19	✓
SC 3000 - 300 - B	SC 3000 - 300 - D	300 11.81	720 28.35	420 16.54		4532 10188	5463 12282	1939,0 118.28	12,49 27.54	✓



HOW TO ORDER

(10 pcs) SC 3000-050-D
(10 pcs) SC 3000-050-D-N

ISO 11901 - 1	075.90.55 (FCA)	W-DX35-6203 (Ford)	EM24.54.700 (Renault)
PG23D (Mazda)	VDI 3003	B8 3180 220 000 001(MB)	39D 878 (VW)
SES-K 5404e (Suzuki)	B2 4006 (BMW)	E24.54.815.G (PSA)	K 32 S (Nissan)



OVER STROKE OVER
OSAS + OSM = ACTIVE SAFETY + STROKE MARKER



ACTIVE SAFETY



OSAS



USAS



OPAS

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist

Le nouveau code sera fourni uniquement lorsque le vieux stock sera épuisé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIFOLD p. 211

* F_i =

Isothermal end force at 100% Cu

p. 16

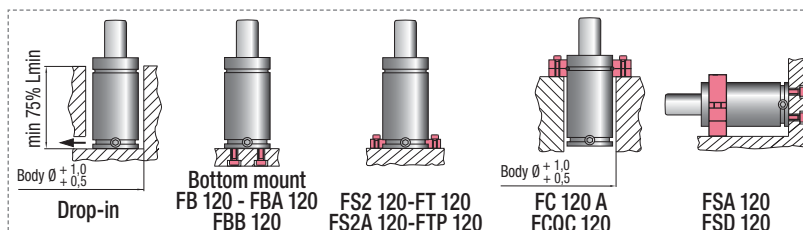
** F_p =

Polytrophic end force at 100% Cu

 N ₂	°F 32 176	°C 0 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 33,18 cm ² 5.143 in ²	SPM ~ 15 - 50 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMS05000D Cu 25 ÷ 80 39BMS05000DH Cu 88 ÷ 300
---	-----------------	---------------	-------------------	------------------------------	----------------------------	---	-------------------------------	----------------------	---

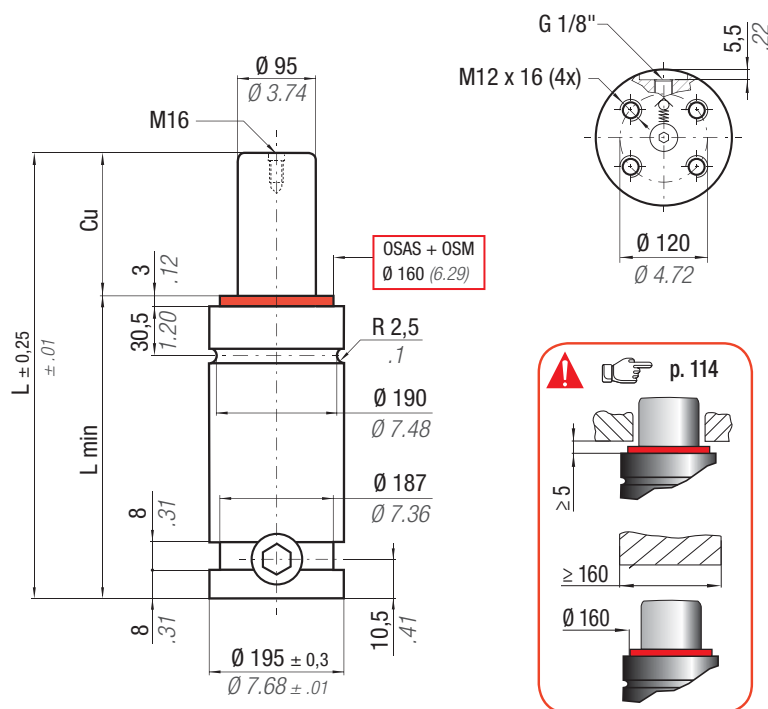
CODE		NEW		Cu		L		L min		Fo		F1i *		F1p **		Vo					
PHASING OUT										Initial force		End force *		End force **						2014/68/EU	
from 01/2014				mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm³	in³	~Kg	~lb		
SC 5000 - 025 - B	SC 5000 - 025 - D	25	0.98	190	7.48	165	6.50					6316	14199	7148	16068	457,0	27.88	10,94	24.12	✓	
SC 5000 - 038 - B	SC 5000 - 038 - D	38	1.50	216	8.50	178	7.01					6652	14955	7657	17214	583,0	35.56	11,46	25.26	✓	
SC 5000 - 050 - B	SC 5000 - 050 - D	50	1.97	240	9.45	190	7.48					6872	15448	7994	17972	699,0	42.64	11,94	26.32	✓	
SC 5000 - 063 - B	SC 5000 - 063 - D	63,5	2.50	267	10.51	203.5	8.01					7077	15910	8313	18688	823,0	50.20	12,56	27.69	✓	
-	SC 5000 - 075 - D	 75	2.95	290	11.42	215	8.46			4980	11195 ± 5%	7176	16132	8467	19035	941,0	57.40	12,94	28.53	✓	
SC 5000 - 080 - B	SC 5000 - 080 - D	80	3.15	300	11.81	220	8.66					7221	16232	8537	19193	989,0	60.33	13,15	28.99	✓	
-	SC 5000 - 088 - D	 88	3.46	315	12.40	227	8.94					7300	16411	8662	19473	1061,0	64.72	13,39	29.52	✓	
SC 5000 - 100 - B	SC 5000 - 100 - D	100	3.94	340	13.39	240	9.45					7367	16562	8768	19712	1182,0	72.10	13,89	30.62	✓	
-	SC 5000 - 113 - D	 113	4.45	365	14.37	252	9.92					7454	16757	8906	20021	1303,0	79.48	14,40	31.75	✓	
SC 5000 - 125 - B	SC 5000 - 125 - D	125	4.92	390	15.35	265	10.43			150 bar		7499	16858	8977	20181	1424,0	86.86	14,90	32.85	✓	
-	SC 5000 - 138 - D	 138	5.43	415	16.34	277	10.91			2175 psi		7564	17005	9081	20415	1545,0	94.25	15,40	33.95	✓	
-	SC 5000 - 150 - D	 150	5.91	440	17.32	290	11.42			+ 20 °C +68 °F		7595	17074	9130	20525	1665,0	101.57	15,90	35.05	✓	
SC 5000 - 160 - B	SC 5000 - 160 - D	160	6.30	460	18.11	300	11.81						7627	17145	9181	20639	1762,0	107.48	16,30	35.94	✓
-	SC 5000 - 175 - D	 175	6.89	490	19.29	315	12.40					7668	17238	9247	20788	1907,0	116.33	16,90	37.26	✓	
SC 5000 - 200 - B	SC 5000 - 200 - D	200	7.87	540	21.26	340	13.39					7726	17369	9340	20997	2148,0	131.03	17,91	39.48	✓	
-	SC 5000 - 225 - D	 225	8.86	590	23.23	365	14.37					7773	17474	9415	21166	2390,0	145.79	18,91	41.69	✓	
SC 5000 - 250 - B	SC 5000 - 250 - D	250	9.84	640	25.20	390	15.35					7811	17560	9477	21305	2632,0	160.55	19,91	43.89	✓	
-	SC 5000 - 275 - D	 275	10.83	690	27.17	415	16.34					7843	17632	9529	21422	2873,0	175.25	20,92	46.12	✓	
SC 5000 - 300 - B	SC 5000 - 300 - D	300	11.81	740	29.13	440	17.32					7871	17694	9573	21521	3115,0	190.02	21,92	48.33	✓	

SC
SCF



HOW TO ORDER

(10 pcs) SC 5000-050-D
(10 pcs) SC 5000-050-D-N



OVER STROKE OVER
OSAS + OSM = ACTIVE SAFETY + STROKE MARKER



ACTIVE SAFETY



OSAS



USAS



OPAS

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist

Le nouveau code sera fourni uniquement lorsque le vieux stock sera épuisé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIFOLD  p. 211

* F_i =

Isothermal end force at 100% Cu



p. 16

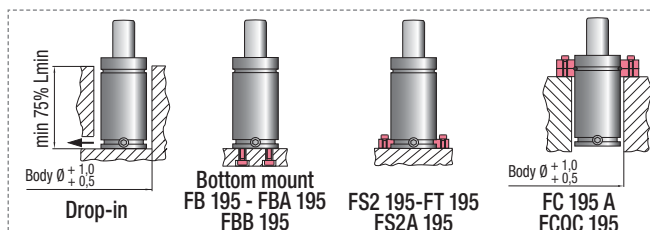
** F_p =

Polytrophic end force at 100% Cu



 N ₂		°F 32 176	°C 0 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 70,88 cm ² 10.986 in ²	SPM ~ 15 - 50 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMS10000D								
CODE PHASING OUT from 01/2014	 NEW	Cu		L		L min		F ₀ Initial force		F _i * End force *		F _p ** End force **		V ₀				
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
SC 10000 - 025 - C	SC 10000 - 025 - D	25	0.98	210	8.27	185	7.28	10600 ± 5%	23830	12892	28981	14373	32311	1186,0	72.35	33,73	74.36	✓
SC 10000 - 038 - C	SC 10000 - 038 - D	38	1.50	236	9.29	198	7.80			13463	30267	15225	34228	1497,0	91.32	35,08	77.34	✓
SC 10000 - 050 - C	SC 10000 - 050 - D	50	1.97	260	10.24	210	8.27			13838	31108	15790	35497	1784,0	108.82	36,32	80.07	✓
SC 10000 - 063 - C	SC 10000 - 063 - D	63,5	2.50	287	11.30	223,5	8.80			14151	31812	16266	36567	2108,0	128.59	37,72	83.16	✓
SC 10000 - 080 - C	SC 10000 - 080 - D	80	3.15	320	12.60	240	9.45			14434	32450	16700	37543	2503,0	152.68	39,44	86.95	✓
SC 10000 - 100 - C	SC 10000 - 100 - D	100	3.94	360	14.17	260	10.24	150 bar 2175 psi + 20 °C +68 °F		14686	33015	17087	38414	2982,0	181.90	41,51	91.51	✓
SC 10000 - 125 - C	SC 10000 - 125 - D	125	4.92	410	16.14	285	11.22			14912	33524	17438	39202	3581,0	218.44	44,11	97.25	✓
SC 10000 - 160 - C	SC 10000 - 160 - D	160	6.30	480	18.90	320	12.60			15132	34018	17780	39971	4419,0	269.56	47,74	105.25	✓
SC 10000 - 200 - C	SC 10000 - 200 - D	200	7.87	560	22.05	360	14.17			15345	34498	18114	40722	5343,0	325.92	52,17	115.02	✓
SC 10000 - 250 - C	SC 10000 - 250 - D	250	9.84	660	25.98	410	16.14			15696	35286	18665	41961	6348,0	387.23	58,87	129.79	✓
SC 10000 - 300 - C	SC 10000 - 300 - D	300	11.81	760	29.92	460	18.11	15960	35879	19083	42901	7354,0	448.59	65,57	144.56	✓		

SC
SCF



HOW TO ORDER

(10 pcs) SC 10000-050-D
(10 pcs) SC 10000-050-D-N