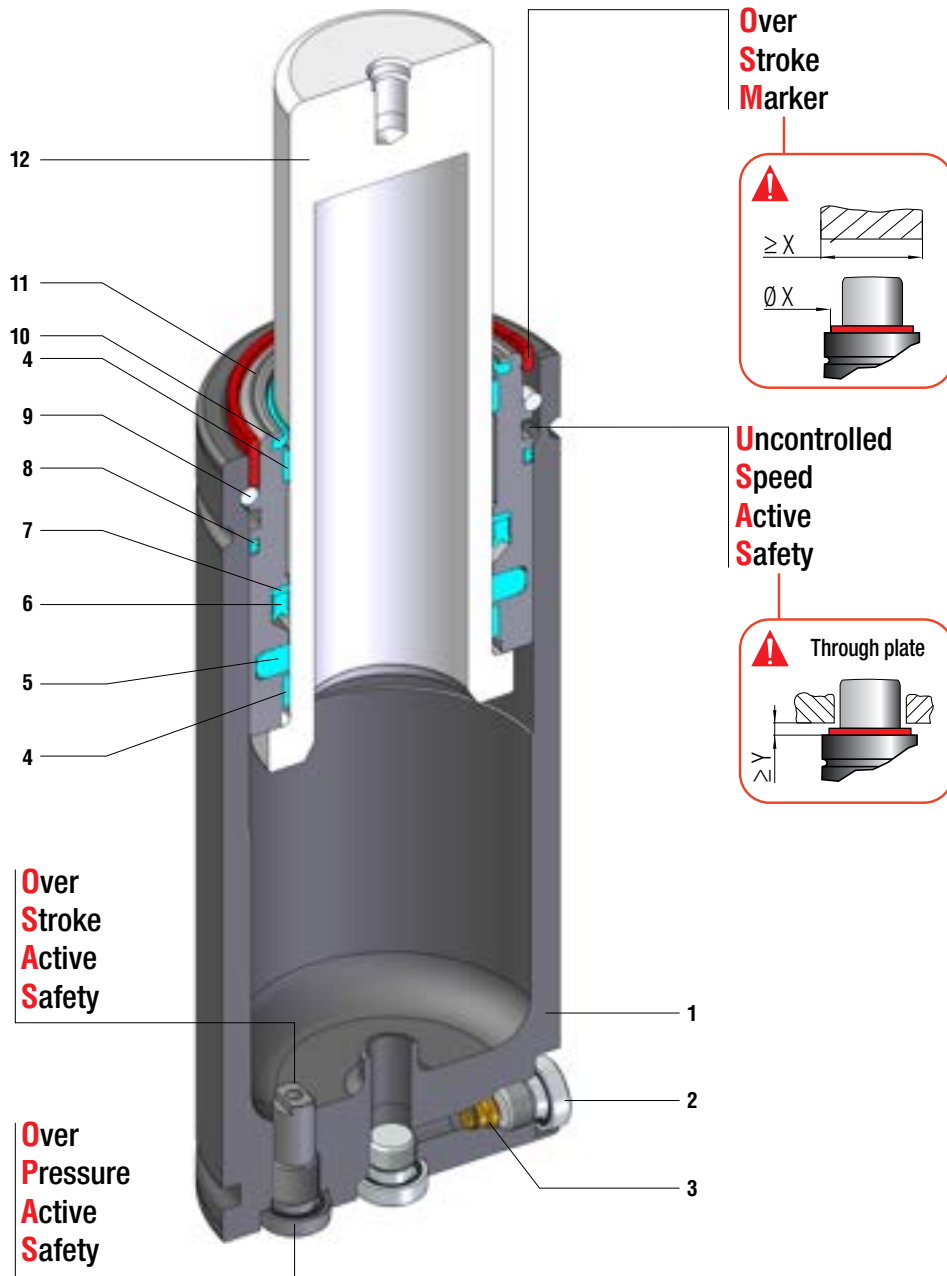


ISO	VDI	BMW
FCA	VW	



ISO standard, forza potenziata - ISO standard, high force - ISO Standard, erhöhte Kraft
 Standard ISO, force majorée - ISO standard, fuerza potenciada - Norma ISO, forța permitida

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

1	Body	5	Rod seal	9	Retaining ring
2	Plug	6	Rod seal	10	Rod wiper
3	Valve	7	Back-up ring	11	Bush
4	Guide ring	8	Dual ring seal	12	Rod (nitrited superfinished)

RANGE CHART

Model	Body Ø		Stroke Cu		Initial force F0						
	mm	inch	mm	inch	daN	lb	OSAS	USAS	OPAS	SKUDO	SW
H 300	32	1.26	10 - 125	0.39 - 4.92	300	674	✓	✓	✓	-	✓
H 500	38	1.50	10 - 125	0.39 - 4.92	470	1057	✓	✓	✓	-	✓
HF 500	M 38 X 1,5		10 - 125	0.39 - 4.92	470	1057	✓	✓	✓	-	✓
H 700	45	1.77	10 - 200	0.51 - 7.87	680	1529	✓	✓	✓	-	✓
H 1000	50	1.97	13 - 300	0.51 - 11.81	920	2383	✓	✓	✓	-	✓
H 1500	63	2.48	13 - 300	0.51 - 11.81	1530	3440	✓	✓	✓	-	✓
H 2400	75	2.95	25 - 300	0.98 - 11.81	2385	5362	✓	✓	✓	-	✓
H 4200	95	3.74	25 - 300	0.98 - 11.81	4240	9532	✓	✓	✓	-	✓
H 6600	120	4.72	25 - 300	0.98 - 11.81	6630	14905	✓	✓	✓	-	✓
H 9500	150	5.91	25 - 300	0.98 - 11.81	9540	21446	✓	✓	✓	-	✓
H 18500	195	7.68	25 - 300	0.98 - 11.81	18400	41365	✓	✓	✓	-	✓
H 20000	195	7.68	25 - 300	0.98 - 11.81	19910	44756	✓	✓	✓	-	✓

✓ Built-in as standard

✓ Optional upon request

HOW TO ORDER

Series _____ Revision code _____

Model **H 1000-050-E-E-W**

Stroke _____ Version _____

Available versions



H 1000-050-E
Standard code



Self contained



H 1000-050-E-W
Add "-W" to standard code



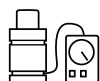
Self contained



+
Secondary wiper



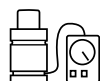
H 1000-050-E-N
Add "-N" to standard code



Linkable



H 1000-050-E-N-W
Add "-N-W" to standard code



Linkable



+
Secondary wiper



H 1000-050-E-E
Add "-E" to standard code



Easy
Manifold



H 1000-050-E-E-W
Add "-E-W" to standard code



Easy
Manifold



+
Secondary wiper



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

ACTIVE SAFETY



OSAS



USAS

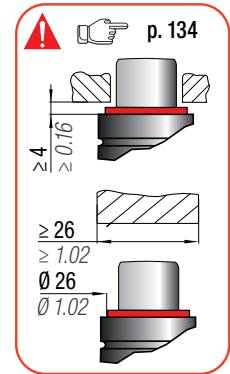
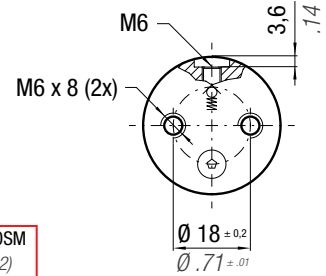
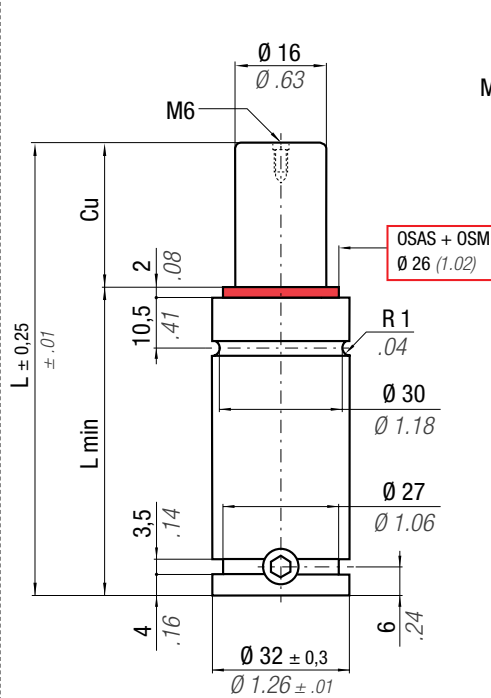


OPAS

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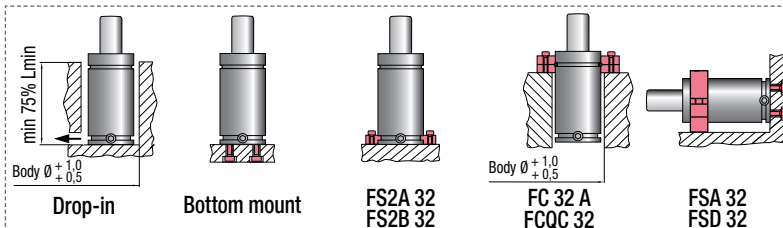
easu MANIPOL p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16
 ** F_{1p} = Polytrophic end force at 100% Cu



N ₂	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 2,01 cm ² 0,312 in ²	SPM ~ 30 - 100 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMH00300B		
CODE PHASING OUT from 04/2021	NEW	Cu	L	L min	F ₀	F _{1i} *	F _{1p} **	V ₀	PED 2014/68/EU	
H 300 - 010 - C	♦ H 300 - 010 - D	10 0.39	70 2.76	60 2.36	300 674 ± 5% 150 bar 2175 psi + 20 °C +68 °F	372 837	418 939	12,4 0.76	0,22 0.49	✓
H 300 - 013 - C	H 300 - 013 - D	13 0.51	75,7 2.98	62,7 2.47		386 867	437 983	14,0 0.85	0,23 0.51	✓
H 300 - 016 - C	H 300 - 016 - D	16 0.63	82 3.23	66 2.60		394 887	451 1013	16,0 0.98	0,24 0.53	✓
H 300 - 025 - C	H 300 - 025 - D	25 0.98	100 3.94	75 2.95		416 934	483 1086	21,3 1.30	0,26 0.57	✓
H 300 - 038 - C	H 300 - 038 - D	38 1.50	126 4.96	88 3.46		434 976	512 1150	29,0 1.77	0,31 0.68	✓
H 300 - 050 - C	H 300 - 050 - D	50 1.97	150 5.91	100 3.94		445 999	528 1188	36,1 2.20	0,35 0.77	✓
H 300 - 063 - C	H 300 - 063 - D	63 2.48	176,5 6.95	113,5 4.47		451 1014	539 1212	44,1 2.69	0,39 0.86	✓
H 300 - 080 - C	H 300 - 080 - D	80 3.15	210 8.27	130 5.12		460 1033	552 1242	53,9 3.29	0,44 0.97	✓
H 300 - 100 - C	H 300 - 100 - D	100 3.94	250 9.84	150 5.91		465 1046	562 1262	65,8 4.02	0,51 1.12	✓
H 300 - 125 - C	H 300 - 125 - D	125 4.92	300 11.81	175 6.89		476 1070	579 1301	78,9 4.81	0,59 1.30	✓

♦ Disposable



HOW TO ORDER
 p. 135

INSTALLATION GUIDELINE
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ACTIVE SAFETY



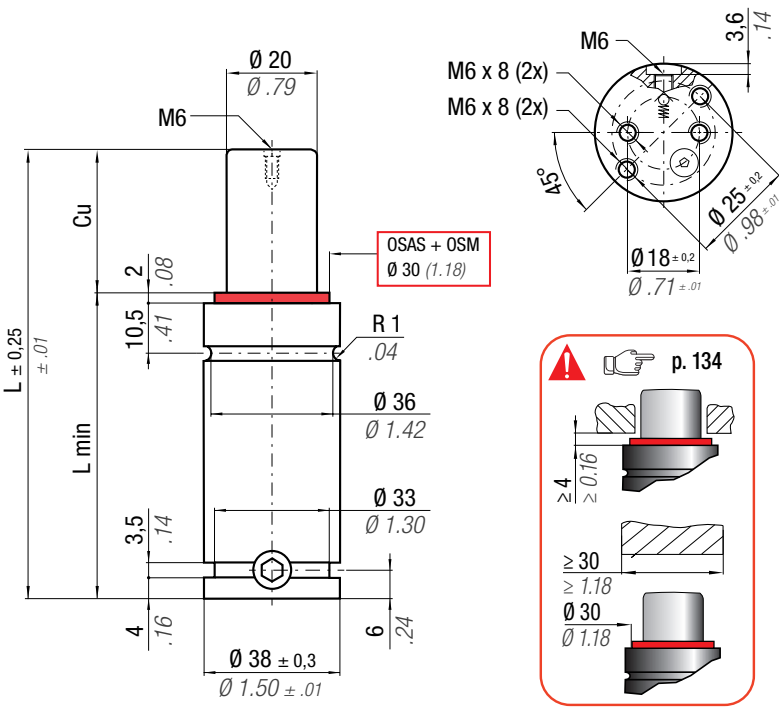
OSAS



USAS



OPAS



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

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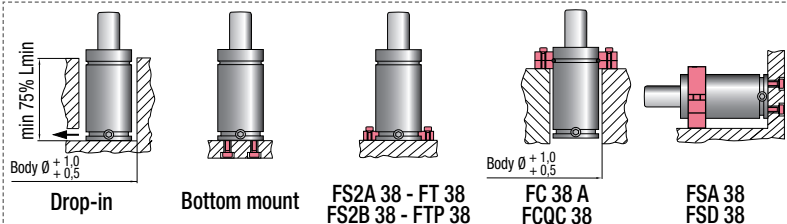
easu MANIFOLD p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16
 ** F_{1p} = Polytrophic end force at 100% Cu

	0 - 80 °C 32 - 176 °F	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 ~ 30 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH00500B
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F0 Initial force		F _{1i} * End force *		F _{1p} ** End force **		V0		PED 2014/68/EU	
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	-Kg	-lb
H 500 - 010 - C	◆ H 500 - 010 - D	10	0.39	70	2.76	60	2.36	470 1057 ± 5% 150 bar 2175 psi + 20 °C +68 °F	595	1338	673	1512	17,6	1.07	0,32	0.71	✓
H 500 - 013 - C	H 500 - 013 - D	13	0.51	75,7	2.98	62,7	2.47		617	1386	705	1585	20,2	1.23	0,33	0.73	✓
H 500 - 016 - C	H 500 - 016 - D	16	0.63	82	3.23	66	2.60		634	1426	732	1646	22,7	1.39	0,34	0.75	✓
H 500 - 019 - C	H 500 - 019 - D	19	0.75	88	3.46	69	2.72		649	1459	755	1697	25,3	1.54	0,36	0.79	✓
H 500 - 025 - C	H 500 - 025 - D	25	0.98	100	3.94	75	2.95		673	1512	791	1778	30,4	1.86	0,39	0.86	✓
H 500 - 038 - C	H 500 - 038 - D	38	1.50	126	4.96	88	3.46		706	1587	843	1896	41,5	2.53	0,45	0.99	✓
H 500 - 050 - C	H 500 - 050 - D	50	1.97	150	5.91	100	3.94		725	1630	874	1965	51,7	3.15	0,50	1.10	✓
H 500 - 063 - C	H 500 - 063 - D	63	2.48	176,5	6.95	113,5	4.47		737	1658	894	2010	63,1	3.85	0,57	1.26	✓
H 500 - 080 - C	H 500 - 080 - D	80	3.15	210	8.27	130	5.12		753	1692	919	2065	77,2	4.71	0,64	1.41	✓
H 500 - 100 - C	H 500 - 100 - D	100	3.94	250	9.84	150	5.91		763	1716	936	2104	94,3	5.75	0,74	1.63	✓
H 500 - 125 - C	H 500 - 125 - D	125	4.92	300	11.81	175	6.89	772	1737	951	2137	115,5	7.05	0,86	1.90	✓	

◆ Disposable



HOW TO ORDER
 p. 135
INSTALLATION GUIDELINE
 p. 205



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

ACTIVE SAFETY



OSAS



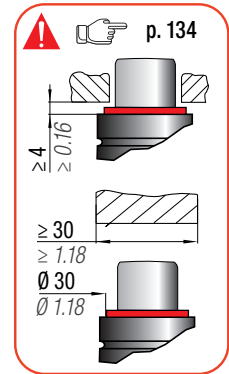
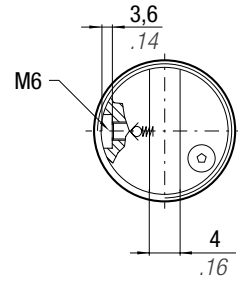
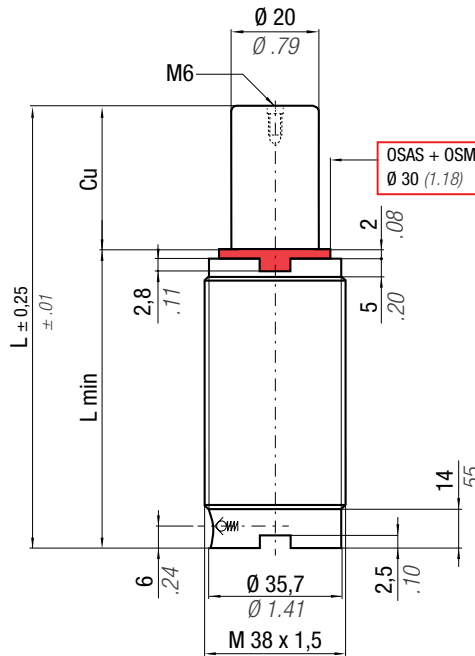
USAS



OPAS

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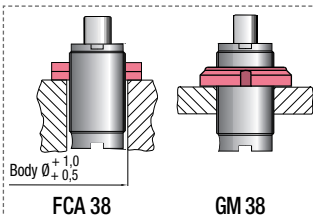
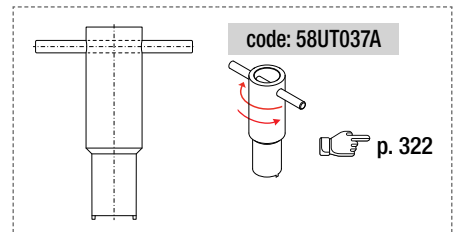
* F_{1i} = Isothermal end force at 100% Cu p. 16 ** F_{1p} = Polyphoric end force at 100% Cu



N₂	0 - 80 °C 32 - 176 °F	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 ~ 30 - 100 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMH00500B
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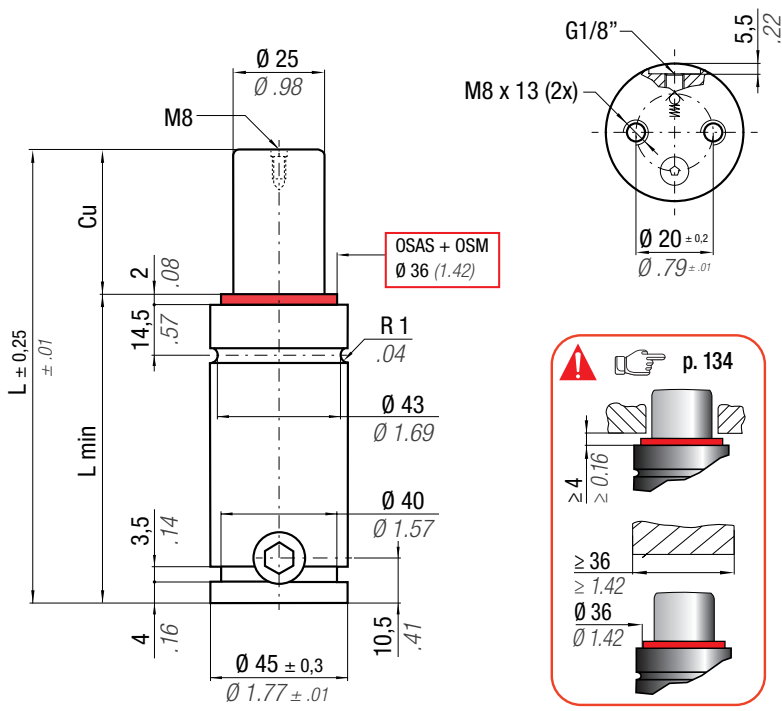
CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³		~Kg	~lb
HF 500 - 010 - C	♦ HF 500 - 010 - D	10	0.39	70	2.76	60	2.36	470 ± 5% 1057 150 bar 2175 psi + 20 °C +68 °F		595	1338	673	1512	17,6	1.07	0,31	0,68	✓
HF 500 - 013 - C	HF 500 - 013 - D	13	0.51	75,7	2.98	62,7	2.47			617	1386	705	1585	20,2	1.23	0,32	0,71	✓
HF 500 - 016 - C	HF 500 - 016 - D	16	0.63	82	3.23	66	2.60			634	1426	732	1646	22,7	1.39	0,34	0,75	✓
HF 500 - 019 - C	HF 500 - 019 - D	19	0.75	88	3.46	69	2.72			649	1459	755	1697	25,3	1.54	0,35	0,77	✓
HF 500 - 025 - C	HF 500 - 025 - D	25	0.98	100	3.94	75	2.95			673	1512	791	1778	30,4	1.86	0,38	0,84	✓
HF 500 - 038 - C	HF 500 - 038 - D	38	1.50	126	4.96	88	3.46			706	1587	843	1896	41,5	2.53	0,44	0,97	✓
HF 500 - 050 - C	HF 500 - 050 - D	50	1.97	150	5.91	100	3.94			725	1630	874	1965	51,7	3.15	0,50	1.10	✓
HF 500 - 063 - C	HF 500 - 063 - D	63	2.48	176,5	6.95	113,5	4.47			737	1658	894	2010	63,1	3.85	0,56	1.23	✓
HF 500 - 080 - C	HF 500 - 080 - D	80	3.15	210	8.27	130	5.12			753	1692	919	2065	77,2	4.71	0,64	1.41	✓
HF 500 - 100 - C	HF 500 - 100 - D	100	3.94	250	9.84	150	5.91			763	1716	936	2104	94,3	5.75	0,73	1.61	✓
HF 500 - 125 - C	HF 500 - 125 - D	125	4.92	300	11.81	175	6.89	772	1737	951	2137	115,5	7.05	0,85	1.87	✓		

♦ Disposable



HOW TO ORDER
 p. 135

INSTALLATION GUIDELINE
 p. 205



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



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ACTIVE SAFETY



OSAS



USAS



OPAS

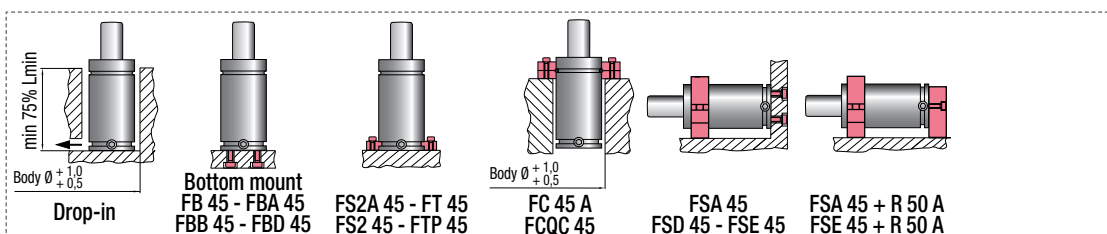
easu MANIFOLD p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16
 ** F_{1p} = Polytrophic end force at 100% Cu

	0 - 80 °C 32 - 176 °F	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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH00700D
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F0		F1i *		F1p **		V0		PED		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
H 700 - 010 - D	◆ H 700 - 010 - E	10	0.39	105	4.13	95	3.74	740 1664 ± 5%	150 bar 2175 psi	967	2173	1106	2487	24,0	1.46	0,90	1,98	✓
H 700 - 013 - D	H 700 - 013 - E	13	0.50	110,7	4.35	97,7	3.85			1010	2271	1173	2636	27,4	1.67	0,91	2.01	✓
H 700 - 025 - D	H 700 - 025 - E	25	0.98	135	5.31	110	4.33			1108	2490	1325	2980	42,2	2.58	1,00	2.20	✓
H 700 - 038 - D	H 700 - 038 - E	38	1.50	161	6.34	123	4.84			1168	2625	1422	3196	58,1	3.55	1,09	2.40	✓
H 700 - 050 - D	H 700 - 050 - E	50	1.97	185	7.28	135	5.31			1202	2703	1478	3323	72,7	4.44	1,17	2.58	✓
H 700 - 063 - D	H 700 - 063 - E	63	2.48	211,5	8.33	148,5	5.85			1224	2752	1514	3403	89,0	5.43	1,26	2.78	✓
H 700 - 080 - D	H 700 - 080 - E	80	3.15	245	9.65	165	6.50			1252	2814	1559	3505	109,2	6.66	1,37	3.02	✓
H 700 - 100 - D	H 700 - 100 - E	100	3.94	285	11.22	185	7.28			1271	2856	1590	3575	133,5	8.15	1,51	3.33	✓
H 700 - 125 - D	H 700 - 125 - E	125	4.92	335	13.19	210	8.27			1287	2892	1617	3635	163,9	10.00	1,67	3.68	✓
H 700 - 160 - D	H 700 - 160 - E	160	6.30	405	15.94	245	9.65			1301	2926	1642	3691	206,5	12.60	1,91	4.21	✓
■ H 700 - 200 - D	H 700 - 200 - E	200	7.87	485	19.09	285	11.22	1313	2951	1660	3733	255,2	15.57	2,20	4.85	✓		

◆ Disposable



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INSTALLATION GUIDELINE p. 205



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

ACTIVE SAFETY



OSAS



USAS

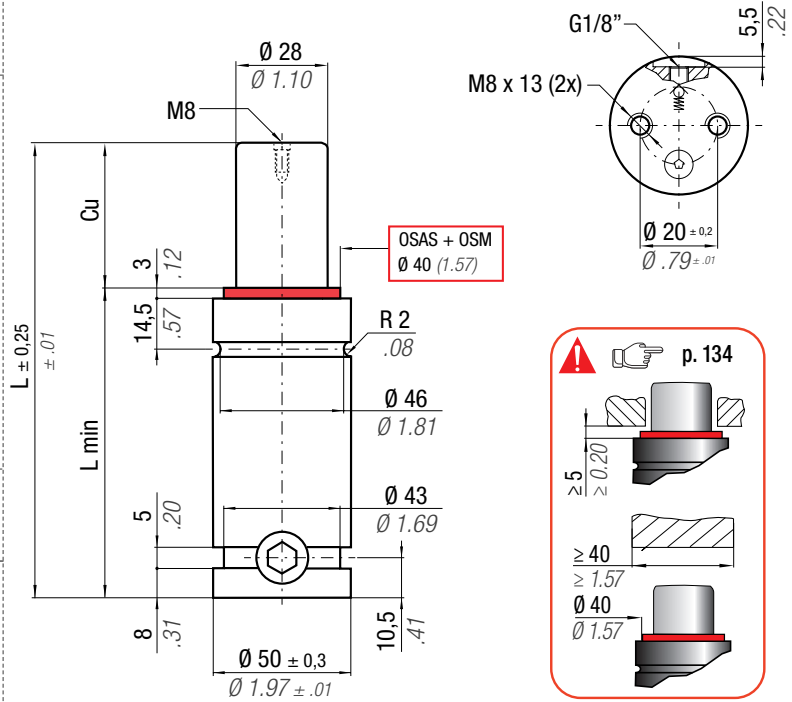


OPAS

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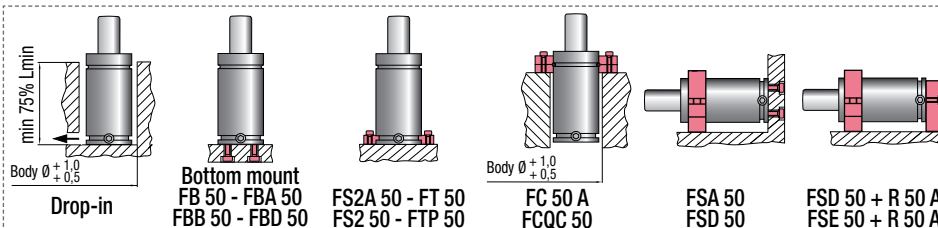
easu MANIFOLD p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16
** F_{1p} = Polytropic end force at 100% Cu



	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 6,15 cm ² 0,953 in ²	SPM ~ 15 - 100 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMH01000D		
CODE PHASING OUT from 04/2021	NEW	Cu	L	L min	F ₀	F _{1i} *	F _{1p} **	V ₀		
		mm inch	mm inch	mm inch	daN lb	daN lb	daN lb	cm ³ in ³	~Kg ~lb	2014/68/EU
H 1000 - 013 - D	♦ H 1000 - 013 - E	13 0.50	120,7 4.74	107,7 4.24	920 2068 ± 5% 150 bar 2175 psi + 20 °C +68 °F	1201 2701	1371 3082	40 2.47	1,21 2,67	✓
H 1000 - 025 - D	H 1000 - 025 - E	25 0.98	145 5.71	120 4.72		1324 2976	1559 3505	59 3.60	1,32 2,91	✓
H 1000 - 038 - D	H 1000 - 038 - E	38 1.50	171 6.73	133 5.24		1405 3159	1687 3793	79 4.81	1,43 3,15	✓
H 1000 - 050 - D	H 1000 - 050 - E	50 1.97	195 7.68	145 5.71		1455 3271	1767 3973	97 5.92	1,53 3,37	✓
H 1000 - 063 - D	H 1000 - 063 - E	63 2.48	221 8.74	158 6.22		1493 3357	1830 4113	117 7.13	1,64 3,62	✓
H 1000 - 075 - D	H 1000 - 075 - E	75 2.95	245 9.65	170 6.69		1520 3417	1873 4210	135 8.24	1,74 3,84	✓
H 1000 - 080 - D	H 1000 - 080 - E	80 3.15	255 10.04	175 6.89		1529 3438	1888 4244	143 8.70	1,78 3,92	✓
H 1000 - 100 - D	H 1000 - 100 - E	100 3.94	295 11.61	195 7.68		1559 3504	1937 4354	173 10.56	1,96 4,32	✓
H 1000 - 125 - D	H 1000 - 125 - E	125 4.92	345 13.58	220 8.66		1585 3562	1979 4450	211 12.88	2,17 4,78	✓
H 1000 - 150 - D	H 1000 - 150 - E	150 5.91	395 15.55	245 9.65		1603 3604	2010 4519	249 15.20	2,38 5,25	✓
H 1000 - 160 - D	H 1000 - 160 - E	160 6.30	415 16.34	255 10.04		1609 3617	2020 4541	264 16.13	2,46 5,42	✓
H 1000 - 175 - D	H 1000 - 175 - E	175 6.89	445 17.52	270 10.63		1617 3635	2033 4570	287 17.52	2,59 5,71	✓
H 1000 - 200 - D	H 1000 - 200 - E	200 7.87	495 19.49	295 11.61		1627 3659	2051 4610	325 19.84	2,79 6,15	✓
H 1000 - 250 - D	H 1000 - 250 - E	250 9.84	595 23.43	345 13.58		1643 3694	2077 4669	401 24.48	3,21 7,08	✓
H 1000 - 300 - D	H 1000 - 300 - E	300 11.81	695 27.36	395 15.55		1654 3718	2095 4710	477 29.13	3,63 8,00	✓

♦ Disposable



HOW TO ORDER

p. 135

INSTALLATION GUIDELINE

p. 205



ACTIVE SAFETY



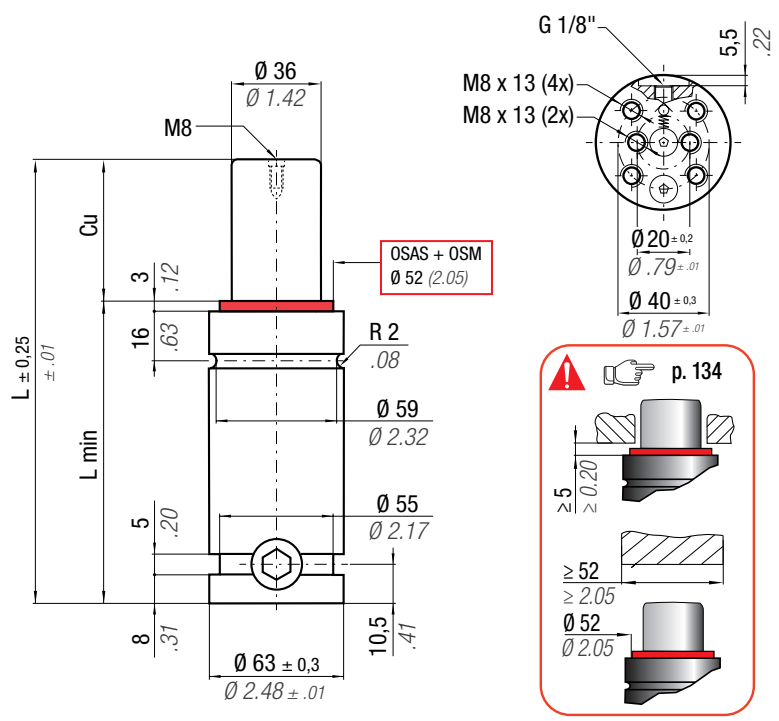
OSAS



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 nur angegeben, wenn der alte nicht mehr lieferbar ist

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

El nuevo código será suministrado sólo cuando se agoten las existencias del antiguo

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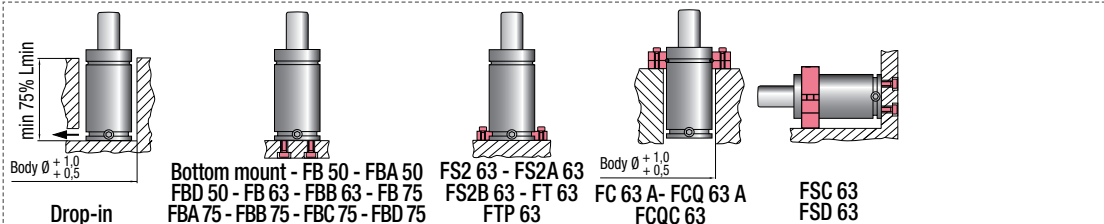
easu MANIFOLD p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16
** F_{1p} = Polytrophic end force at 100% Cu

N ₂	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 10,17 cm ² 1.576 in ²	SPM ~ 15 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH01500C Cu 25 ÷ 80 39BMH01500CH Cu 100 ÷ 300
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀ Initial force		F _{1i} * End force *		F _{1p} ** End force **		V ₀		PED 2014/68/EU																																																														
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	✓																																																												
H 1500 - 013 - C	◆ H 1500 - 013 - D	13	0,51	120,7	4,75	107,7	4,24	1530 3440 ± 5%	1982 4456	2260 5081	67 4,10	1,98 4,37	✓																																																																	
H 1500 - 025 - C	H 1500 - 025 - D	25	0,98	145	5,71	120	4,72							2177 4895	2560 5755	99 6,02	2,13 4,70	✓																																																												
H 1500 - 038 - C	H 1500 - 038 - D	38	1,50	171	6,73	133	5,24												2306 5183	2762 6210	132 8,06	2,29 5,05	✓																																																							
H 1500 - 050 - C	H 1500 - 050 - D	50	1,97	195	7,68	145	5,71																	2383 5358	2887 6490	163 9,95	2,44 5,38	✓																																																		
H 1500 - 063 - C	H 1500 - 063 - D	63	2,48	221	8,70	158	6,22																						2443 5493	2983 6707	197 11,99	2,60 5,73	✓																																													
H 1500 - 075 - C	H 1500 - 075 - D	75	2,95	245	9,65	170	6,69																											2484 5585	3050 6857	227 13,88	2,75 6,06	✓																																								
H 1500 - 080 - C	H 1500 - 080 - D	80	3,15	255	10,04	175	6,89																																2499 5617	3074 6910	240 14,66	2,81 6,19	✓																																			
H 1500 - 100 - C	H 1500 - 100 - D	100	3,94	295	11,61	195	7,68																																					2544 5720	3148 7078	292 17,80	3,03 6,68	✓																														
H 1500 - 125 - C	H 1500 - 125 - D	125	4,92	345	13,58	220	8,66																																										2584 5809	3214 7224	356 21,73	3,34 7,36	✓																									
H 1500 - 150 - C	H 1500 - 150 - D	150	5,91	395	15,55	245	9,65																																															2612 5873	3260 7329	420 25,65	3,64 8,02	✓																				
H 1500 - 160 - C	H 1500 - 160 - D	160	6,30	415	16,34	255	10,04																																																				2621 5893	3275 7363	446 27,22	3,77 8,31	✓															
H 1500 - 175 - C	H 1500 - 175 - D	175	6,89	445	17,52	270	10,63																																																									2633 5920	3295 7408	485 29,58	3,95 8,71	✓										
H 1500 - 200 - C	H 1500 - 200 - D	200	7,87	495	19,49	295	11,61																																																														2650 5957	3322 7469	549 33,51	4,26 9,39	✓					
H 1500 - 250 - C	H 1500 - 250 - D	250	9,84	595	23,43	345	13,58																																																																			2722 6119	3443 7740	661 40,36	4,99 11,00	✓
H 1500 - 300 - C	H 1500 - 300 - D	300	11,81	695	27,36	395	15,55																																																																							

◆ Disposable



HOW TO ORDER p. 135

INSTALLATION GUIDELINE p. 205

ISO 11901 - 4 39D 838 (VW)	VDI 3003 Blatt 4	B2 4008 (BMW)	075.90.65 (FCA)
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OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER

ACTIVE SAFETY



OSAS



USAS



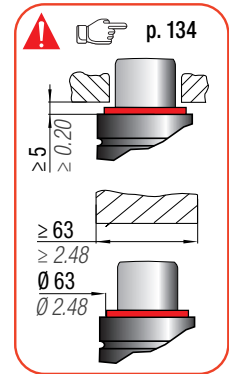
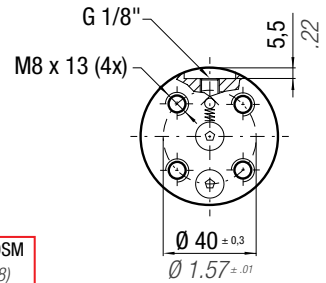
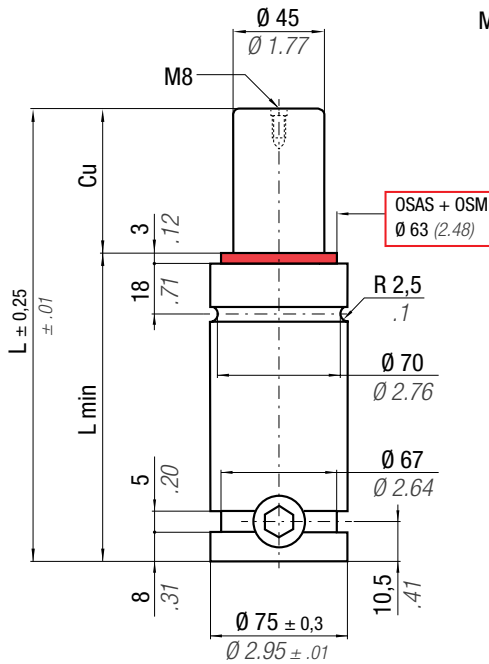
OPAS

Il nuovo codice sarà fornito solo ad esaurimento del vecchio
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O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIPOL p. 247

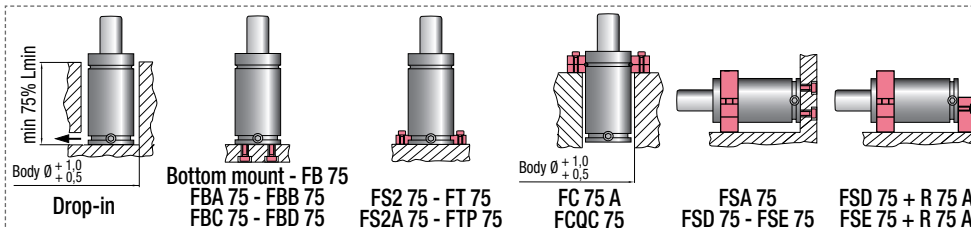
* F_{1i} = Isothermal end force at 100% Cu p. 16

** F_{1p} = Polytrophic end force at 100% Cu



N ₂	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 15,90 cm ² 2.465 in ²	SPM ~ 15 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH02400D Cu 25 ÷ 80 39BMH02400DH Cu 100 ÷ 300
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³		~Kg	~lb
H 2400 - 025 - D	H 2400 - 025 - E	25	0.98	160	6.30	135	5.31	2385 5362 ± 5%	150 bar 2175 psi	3282	7378	3814	8574	169	10.32	3,34	7.36	✓
H 2400 - 038 - D	H 2400 - 038 - E	38	1.50	186	7.32	148	5.83			3495	7857	4146	9321	220	13.44	3,55	7.83	✓
H 2400 - 050 - D	H 2400 - 050 - E	50	1.97	210	8.27	160	6.30			3632	8165	4363	9807	267	16.31	3,75	8.27	✓
H 2400 - 063 - D	H 2400 - 063 - E	63	2.48	236	9.31	173	6.81			3741	8410	4537	10200	318	19.42	3,96	8.73	✓
H 2400 - 075 - D	H 2400 - 075 - E	75	2.95	260	10.24	185	7.28			3818	8583	4662	10480	366	22.30	4,15	9.15	✓
H 2400 - 080 - D	H 2400 - 080 - E	80	3.15	270	10.63	190	7.48			3845	8644	4706	10579	385	23.50	4,23	9.33	✓
H 2400 - 100 - D	H 2400 - 100 - E	100	3.94	310	12.20	210	8.27			3933	8842	4850	10902	464	28.29	4,51	9.94	✓
H 2400 - 125 - D	H 2400 - 125 - E	125	4.92	360	14.17	235	9.25			4012	9019	4979	11192	562	34.28	4,91	10.82	✓
H 2400 - 150 - D	H 2400 - 150 - E	150	5.91	410	16.14	260	10.24			4068	9146	5072	11402	660	40.28	5,32	11.73	✓
H 2400 - 160 - D	H 2400 - 160 - E	160	6.30	430	16.93	270	10.63			4087	9187	5103	11471	699	42.68	5,49	12.10	✓
H 2400 - 175 - D	H 2400 - 175 - E	175	6.89	460	18.11	285	11.22			4111	9243	5144	11563	758	46.27	5,73	12.63	✓
H 2400 - 200 - D	H 2400 - 200 - E	200	7.87	510	20.08	310	12.20			4145	9319	5200	11690	856	52.26	6,14	13.54	✓
H 2400 - 250 - D	H 2400 - 250 - E	250	9.84	610	24.02	360	14.17			4195	9431	5283	11876	1053	64.25	6,95	15.32	✓
H 2400 - 275 - D	H 2400 - 275 - E	275	10.83	660	25.98	385	15.16			4214	9473	5314	11947	1151	70.24	7,36	16.23	✓
H 2400 - 300 - D	H 2400 - 300 - E	300	11.81	710	27.95	410	16.14			4230	9509	5341	12007	1249	76.22	7,77	17.13	✓

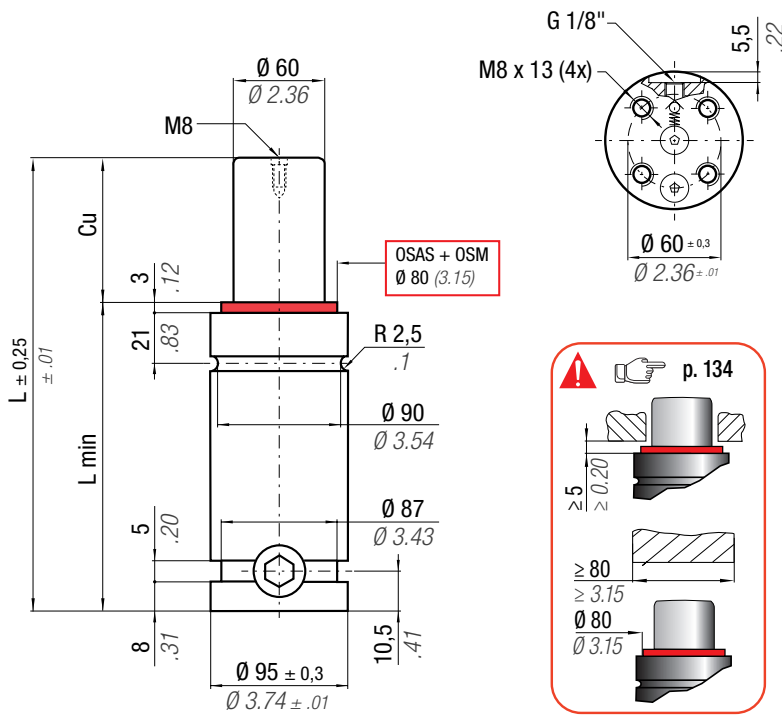


HOW TO ORDER

p. 135

INSTALLATION GUIDELINE

p. 205



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 nur angegeben, wenn der alte nicht mehr lieferbar ist

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

El nuevo código será suministrado sólo cuando se agoten las existencias del antiguo

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

ACTIVE SAFETY



OSAS



USAS



OPAS

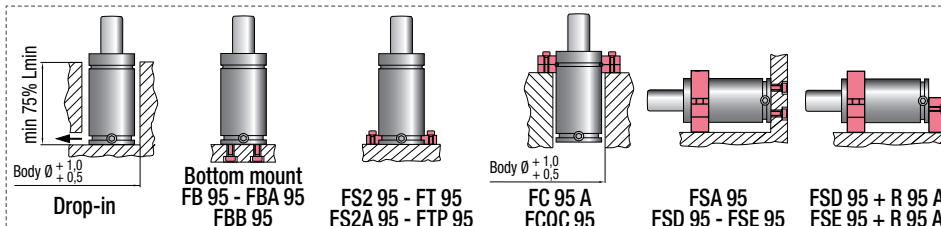
easu MANIFOLD p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16

** F_{1p} = Polytrophic end force at 100% Cu

N ₂	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 28,27 cm ² 4.382 in ²	SPM ~ 15 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH04200D Cu 25 ÷ 80 39BMH04200DH Cu 100 ÷ 300
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀ Initial force		F _{1i} * End force *		F _{1p} ** End force **		V ₀		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	✓
H 4200 - 025 - D	H 4200 - 025 - E	25	0.98	170	6.69	145	5.71	4240 9532 ± 5%	150 bar 2175 psi	5877	13212	6846	15389	295	17.99	5,76	12.70	✓
H 4200 - 038 - D	H 4200 - 038 - E	38	1.50	196	7.72	158	6.22			6312	14190	7526	16919	378	23.09	6,12	13.49	✓
H 4200 - 050 - D	H 4200 - 050 - E	50	1.97	220	8.66	170	6.69			6601	14840	7987	17955	455	27.79	6,45	14.22	✓
H 4200 - 063 - D	H 4200 - 063 - E	63	2.48	246	9.70	183	7.20			6838	15371	8369	18815	539	32.88	6,80	14.99	✓
H 4200 - 075 - D	H 4200 - 075 - E	75	2.95	270	10.63	195	7.68			7008	15755	8648	19441	616	37.58	7,13	15.72	✓
H 4200 - 080 - D	H 4200 - 080 - E	80	3.15	280	11.02	200	7.87			7069	15892	8748	19666	648	39.54	7,27	16.03	✓
H 4200 - 100 - D	H 4200 - 100 - E	100	3.94	320	12.60	220	8.66			7269	16342	9078	20408	777	47.38	7,76	17.11	✓
H 4200 - 125 - D	H 4200 - 125 - E	125	4.92	370	14.57	245	9.65			7447	16742	9374	21074	938	57.22	8,45	18.63	✓
H 4200 - 150 - D	H 4200 - 150 - E	150	5.91	420	16.54	270	10.63			7581	17043	9599	21578	1098	67.02	9,13	20.13	✓
H 4200 - 160 - D	H 4200 - 160 - E	160	6.30	440	17.32	280	11.02			7656	17211	9724	21861	1156	70.56	9,40	20.72	✓
H 4200 - 175 - D	H 4200 - 175 - E	175	6.89	470	18.50	295	11.61	7712	17338	9820	22077	1253	76.44	9,82	21.65	✓		
H 4200 - 200 - D	H 4200 - 200 - E	200	7.87	520	20.47	320	12.60	7791	17515	9953	22376	1413	86.24	10,50	23.15	✓		
H 4200 - 250 - D	H 4200 - 250 - E	250	9.84	620	24.41	370	14.57	7908	17777	10151	22821	1734	105.83	11,87	26.17	✓		
H 4200 - 300 - D	H 4200 - 300 - E	300	11.81	720	28.35	420	16.54	8123	18260	10519	23648	2016	123.02	13,24	29.19	✓		



HOW TO ORDER
 p. 135

INSTALLATION GUIDELINE
 p. 205



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

ACTIVE SAFETY

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 nur angegeben, wenn der alte nicht mehr lieferbar ist

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

El nuevo código será suministrado sólo cuando se agoten las existencias del antiguo

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



OSAS



USAS

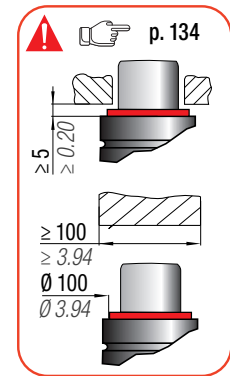
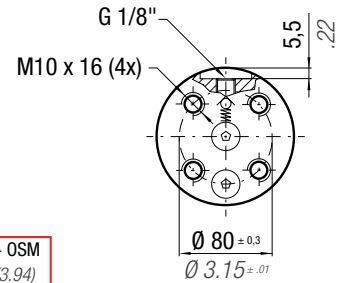
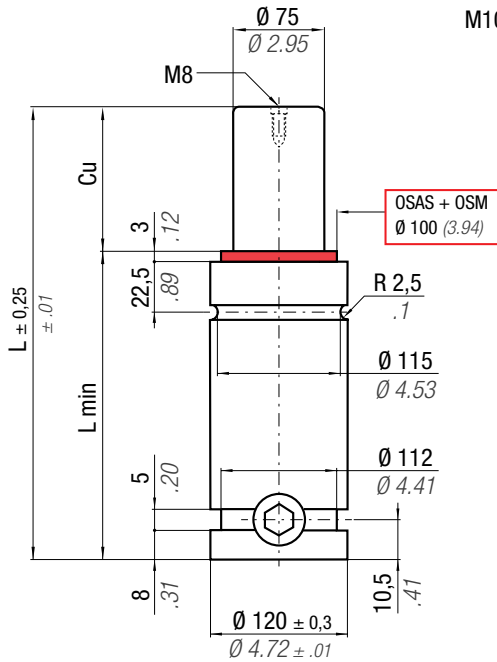


OPAS

easu MANIPOL p. 247

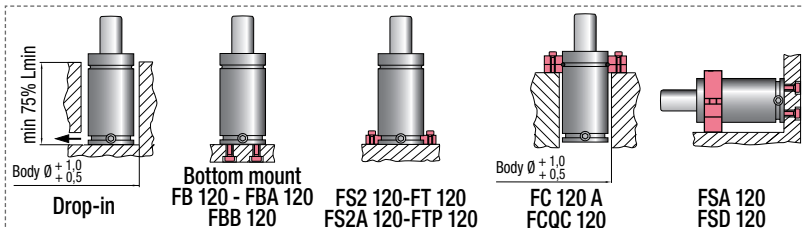
* F_{1i} = Isothermal end force at 100% Cu p. 16

** F_{1p} = Polytrophic end force at 100% Cu



N ₂	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 44,18 cm ² 6.848 in ²	SPM ~ 15 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH06600DH
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		~Kg	~lb	PED 2014/68/EU
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³			
H 6600 - 025 - D	H 6600 - 025 - E	25	0.98	190	7.48	165	6.50	6630 ± 5% 150 bar 2175 psi + 20 °C +68 °F	14904	8646	19437	9874	22198	551	33.65	10,35	22.82	✓
H 6600 - 038 - D	H 6600 - 038 - E	38	1.50	216	8.50	178	7.01			9243	20779	10789	24255	688	42.00	10,89	24.01	✓
H 6600 - 050 - D	H 6600 - 050 - E	50	1.97	240	9.45	190	7.48			9656	21708	11434	25704	815	49.70	11,37	25.07	✓
H 6600 - 063 - D	H 6600 - 063 - E	63	2.48	266	10.47	203	7.99			10004	22490	11984	26941	951	58.05	11,93	26.30	✓
H 6600 - 075 - D	H 6600 - 075 - E	75	2.95	290	11.42	215	8.46			10261	23067	12394	27863	1078	65.76	12,39	27.32	✓
H 6600 - 080 - D	H 6600 - 080 - E	80	3.15	300	11.81	220	8.66			10354	23276	12543	28199	1130	68.98	12,60	27.78	✓
H 6600 - 100 - D	H 6600 - 100 - E	100	3.94	340	13.39	240	9.45			10663	23972	13044	29324	1341	81.82	13,30	29.32	✓
H 6600 - 125 - D	H 6600 - 125 - E	125	4.92	390	15.35	265	10.43			10950	24617	13512	30377	1604	97.88	14,33	31.59	✓
H 6600 - 150 - D	H 6600 - 150 - E	150	5.91	440	17.32	290	11.42			11166	25101	13866	31171	1867	113.93	15,35	33.84	✓
H 6600 - 160 - D	H 6600 - 160 - E	160	6.30	460	18.11	300	11.81			11237	25262	13984	31437	1972	120.36	15,75	34.72	✓
H 6600 - 175 - D	H 6600 - 175 - E	175	6.89	490	19.29	315	12.40			11333	25477	14142	31793	2130	129.99	16,36	36.07	✓
H 6600 - 200 - D	H 6600 - 200 - E	200	7.87	540	21.26	340	13.39			11466	25777	14364	32291	2393	146.05	17,38	38.32	✓
H 6600 - 250 - D	H 6600 - 250 - E	250	9.84	640	25.20	390	15.35			11667	26228	14698	33042	2920	178.16	19,42	42.81	✓
H 6600 - 300 - D	H 6600 - 300 - E	300	11.81	740	29.13	440	17.32			11846	26630	14998	33718	3432	209.42	21,57	47.55	✓

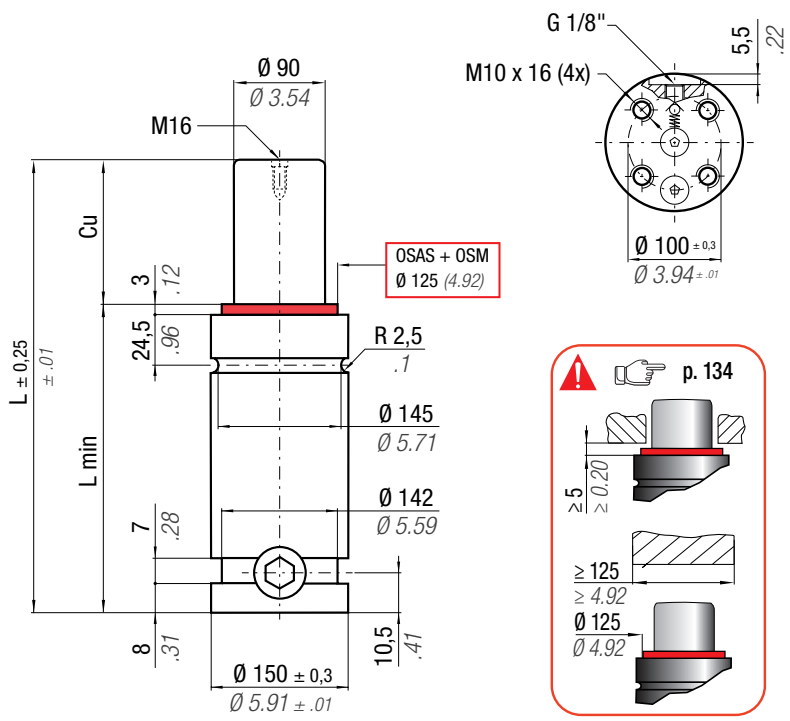


HOW TO ORDER

p. 135

INSTALLATION GUIDELINE

p. 205



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



Il nuovo codice sarà fornito solo ad esaurimento del vecchio
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 O novo código irá ser fornecido apenas quando o antigo esgotar stock

ACTIVE SAFETY



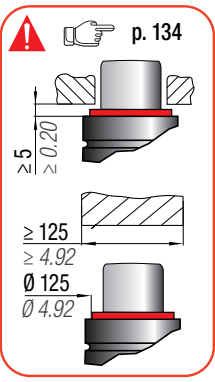
OSAS



USAS



OPAS

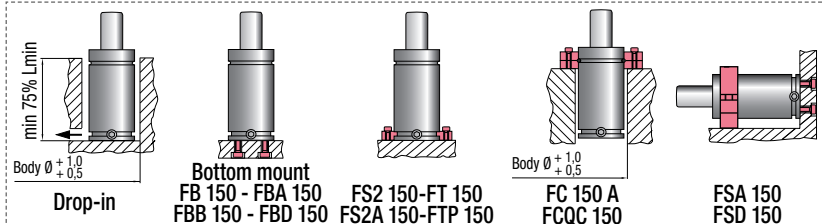


easu MANIFOLD p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16
 ** F_{1p} = Polytrophic end force at 100% Cu

N ₂	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 63,62 cm ² 9.861 in ²	SPM ~ 15 - 80 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH09500C
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀ Initial force		F _{1i} * End force *		F _{1p} ** End force **		V ₀		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	-Kg	-lb	✓
H 9500 - 025 - C	H 9500 - 025 - D	25	0.98	205	8.07	180	7.09	9540 ± 5%	21446	12146	27306	13759	30931	867	52.89	18,00	39.68	✓
H 9500 - 038 - C	H 9500 - 038 - D	38	1.50	231	9.09	193	7.60			12927	29061	14945	33598	1074	65.53	18,82	41.49	✓
H 9500 - 050 - C	H 9500 - 050 - D	50	1.97	255	10.04	205	8.07			13470	30282	15785	35485	1265	77.18	19,58	43.17	✓
H 9500 - 063 - C	H 9500 - 063 - D	63	2.48	281	11.06	218	8.58			13930	31315	16504	37103	1472	89.82	20,41	45.00	✓
H 9500 - 075 - C	H 9500 - 075 - D	75	2.95	305	12.01	230	9.06			14270	32081	17042	38311	1663	101.48	21,17	46.67	✓
H 9500 - 080 - C	H 9500 - 080 - D	80	3.15	315	12.40	235	9.25			14394	32358	17238	38752	1743	106.34	21,49	47.38	✓
H 9500 - 100 - C	H 9500 - 100 - D	100	3.94	355	13.98	255	10.04			14806	33285	17896	40232	2061	125.78	22,76	50.18	✓
H 9500 - 125 - C	H 9500 - 125 - D	125	4.92	405	15.94	280	11.02			15189	34147	18515	41622	2459	150.07	24,35	53.68	✓
H 9500 - 150 - C	H 9500 - 150 - D	150	5.91	455	17.91	305	12.01			15478	34795	18983	42674	2857	174.36	25,94	57.19	✓
H 9500 - 160 - C	H 9500 - 160 - D	160	6.30	475	18.70	315	12.40			15574	35012	19139	43027	3017	184.08	26,58	58.60	✓
H 9500 - 175 - C	H 9500 - 175 - D	175	6.89	505	19.88	330	12.99	15702	35300	19349	43498	3255	198.66	27,53	60.69	✓		
H 9500 - 200 - C	H 9500 - 200 - D	200	7.87	555	21.85	355	13.98	15882	35704	19644	44161	3654	222.96	29,12	64.20	✓		
H 9500 - 250 - C	H 9500 - 250 - D	250	9.84	655	25.79	405	15.94	16152	36311	20088	45161	4450	271.54	32,30	71.21	✓		
H 9500 - 300 - C	H 9500 - 300 - D	300	11.81	755	29.72	455	17.91	16345	36746	20408	45879	5246	320.13	35,47	78.20	✓		



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

ACTIVE SAFETY



OSAS



USAS



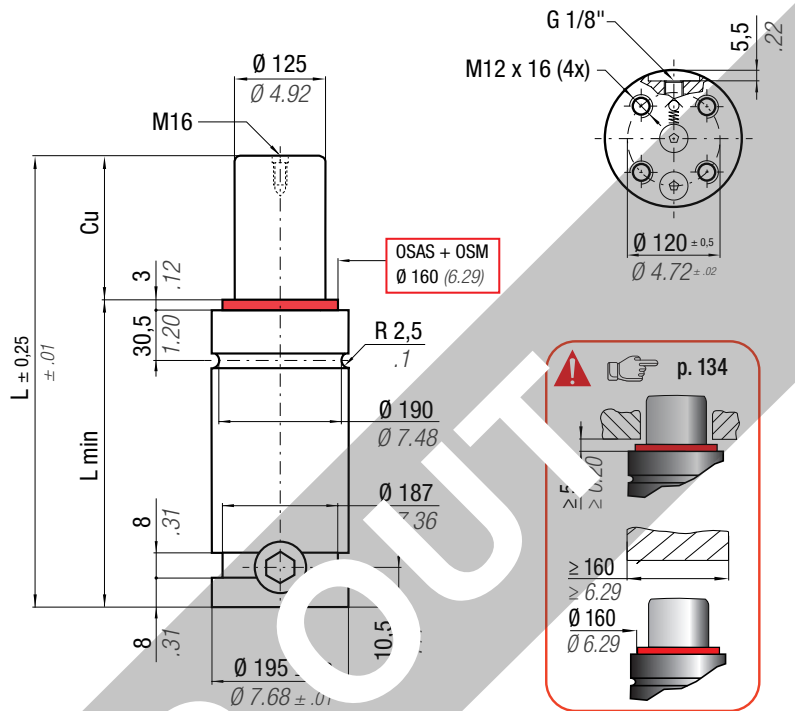
OPAS

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 nur angegeben, wenn der alte nicht mehr lieferbar ist
 Le nouveau code sera fourni uniquement lorsque le vieux stock sera écoulé
 El nuevo código será suministrado sólo cuando se agoten las existencias del antiguo
 O novo código irá ser fornecido apenas quando o antigo esgotar stock

easu MANIPOL p. 247

* F_{1i} = Isothermal end force at 100% Cu p. 16

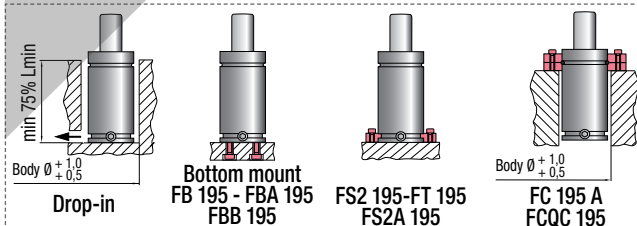
** F_{1p} = Polytropic end force at 100% Cu



	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 12,5 19,019 m ²	SPM ~ 10 - 70 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMH18500C
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CODE	NEW	Cu	L	L min	F ₀	F _{1i} *	F _{1p} **	V ₀	PED	
PHASING OUT from 04/2021		mm / inch	mm / inch	mm / inch	daN / lb	daN / lb	daN / lb	cm ³ / in ³	2014/68/EU	
H 18500 - 025 - C	◆ H 18500 - 025 - D	25 / 0.98	21 / 0.83	19 / 0.75	7.20	23870 / 53662	27205 / 61158	1564 / 95.44	31,06 / 68.48	✓
H 18500 - 038 - C	H 18500 - 038 - D	38 / 1.50	236 / 9.29	195 / 7.80		25611 / 57576	29871 / 67152	1924 / 117.42	32,53 / 71.72	✓
H 18500 - 050 - C	H 18500 - 050 - D	50 / 1.97	260 / 10.24	200 / 7.87		26853 / 60367	31808 / 71508	2257 / 137.72	33,89 / 74.71	✓
H 18500 - 063 - C	H 18500 - 063 - D	63 / 2.48	280 / 11.02	223 / 8.80		27923 / 62774	33503 / 75318	2617 / 159.70	35,36 / 77.96	✓
H 18500 - 075 - C	H 18500 - 075 - D	75 / 2.95	300 / 11.81	235 / 9.25	18400 / 41363	28728 / 64584	34791 / 78214	2950 / 179.99	36,70 / 80.91	✓
H 18500 - 080 - C	H 18500 - 080 - D	80 / 3.15	300 / 12.60	240 / 9.45	± 5%	29023 / 65245	35265 / 79280	3088 / 188.44	37,28 / 82.19	✓
H 18500 - 100 - C	H 18500 - 100 - D	100 / 3.94	360 / 14.17	260 / 10.24		30016 / 67478	36876 / 82901	3642 / 222.26	39,54 / 87.17	✓
H 18500 - 125 - C	H 18500 - 125 - D	125 / 4.92	410 / 16.14	285 / 11.22	150 bar / 2175 psi	30954 / 69587	38414 / 86359	4335 / 264.54	42,37 / 93.41	✓
H 18500 - 150 - C	H 18500 - 150 - D	150 / 5.91	460 / 18.11	310 / 12.20		31668 / 71192	39595 / 89014	5028 / 306.81	45,19 / 99.63	✓
H 18500 - 160 - C	H 18500 - 160 - D	160 / 6.30	480 / 18.90	320 / 12.60	+ 20 °C / +68 °F	31908 / 71732	39994 / 89911	5305 / 323.72	46,33 / 102.14	✓
H 18500 - 175 - C	H 18500 - 175 - D	175 / 6.89	510 / 20.08	335 / 13.19		32229 / 72454	40530 / 91116	5721 / 349.09	48,00 / 108.00	✓
H 18500 - 200 - C	H 18500 - 200 - D	200 / 7.87	560 / 22.05	360 / 14.17		32683 / 73473	41289 / 92821	6413 / 391.36	50,85 / 112.11	✓
H 18500 - 250 - C	H 18500 - 250 - D	250 / 9.84	660 / 25.98	410 / 16.14		33369 / 75016	42444 / 95418	7799 / 475.91	56,51 / 124.58	✓
H 18500 - 300 - C	H 18500 - 300 - D	300 / 11.81	760 / 29.92	460 / 18.11		33864 / 76130	43283 / 97303	9184 / 560.45	62,16 / 137.04	✓

◆ Disposable

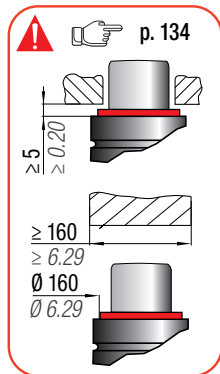
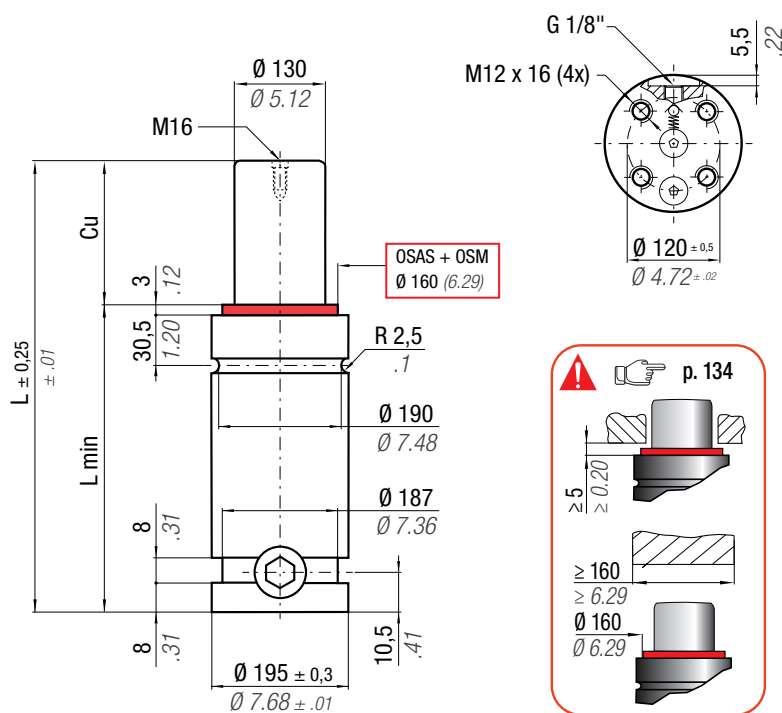


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OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER



easu MANIFOLD p. 247

ACTIVE SAFETY

* F_{1i} =

Isothermal end force at 100% Cu p. 16

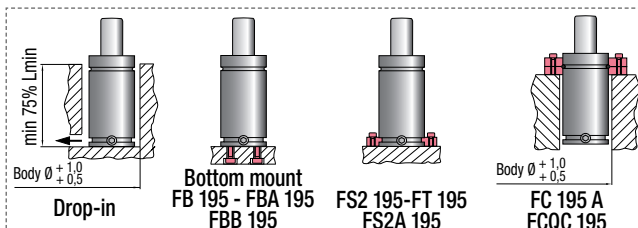
** F_{1p} =

Polytropic end force at 100% Cu



CODE	N ₂	0 - 80 °C 32 - 176 °F	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 132,67 cm ² 20.563 in ²	SPM ~ 10 - 70 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMH20000A	Cu		L		L min		F ₀ Initial force		F _{1i} * End force		F _{1p} ** End force		V ₀		PED 2014/68/EU		
										mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	✓
♦ H 20000 - 025 - A										25	0.98	210	8.27	185	7.28			26054	58572	29783	66955	1640	100.10	30,74	67.76	✓
H 20000 - 038 - A										38	1.50	236	9.29	198	7.80			28074	63113	32887	73933	2011	122.72	32,26	71.13	✓
H 20000 - 050 - A										50	1.97	260	10.24	210	8.27			29533	66392	35174	79075	2353	143.60	33,64	74.16	✓
H 20000 - 063 - A										63	2.50	286	11.30	223	8.80			30803	69248	37197	83623	2724	166.22	35,13	77.44	✓
H 20000 - 075 - A										75	2.95	310	12.20	235	9.25	19910	44759	31765	71411	38748	87110	3066	187.10	36,50	80.48	✓
H 20000 - 080 - A										80	3.15	320	12.60	240	9.45	± 5%		32119	72207	39323	88401	3209	195.80	37,08	81.74	✓
H 20000 - 100 - A										100	3.94	360	14.17	260	10.24	150 bar		33319	74904	41285	92812	3779	230.60	39,37	86.79	✓
H 20000 - 125 - A										125	4.92	410	16.14	285	11.22	2175 psi		34462	77474	43176	97063	4492	274.11	42,23	93.11	✓
H 20000 - 150 - A										150	5.91	460	18.11	310	12.20			35338	79443	44639	100353	5205	317.60	45,10	99.43	✓
H 20000 - 160 - A										160	6.30	480	18.90	320	12.60	+ 20 °C +68 °F		35634	80108	45136	101469	5490	335.01	46,25	101.95	✓
H 20000 - 175 - A										175	6.89	510	20.56	335	13.19			36031	81001	45805	102973	5918	361.11	47,97	105.74	✓
H 20000 - 200 - A										200	7.87	560	22.05	360	14.17			36593	82263	46755	105109	6630	404.61	50,83	112.06	✓
H 20000 - 250 - A										250	9.84	660	25.98	410	16.14			37447	84185	48211	108382	8056	491.61	56,56	124.70	✓
H 20000 - 300 - A										300	11.81	760	29.92	460	18.11			38067	85578	49273	110770	9482	578.61	62,29	137.33	✓

♦ Disposable



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