

UP to 120°C / 248°F

**LONG LIFE
thanks to special seals
and guides
for High Temperature**

Per alta temperatura, ISO standard, forza potenziata - For high temperature, ISO standard, high force
Für Hochtemperatur, ISO Standard, erhöhte Kraft - Pour haute température, standard ISO, force majorée
Para alta temperatura, ISO standard, fuerza potenciada - De alta temperatura, norma ISO, força permitida

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

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

*special design and materials for high temperature.

RANGE CHART

Model	Body Ø		Stroke Cu		Initial force FO		100°C	120°C	OSAS	USAS	OPAS	SKUDO	SW
	mm	inch	mm	inch	daN	lb	HIGH TEMPERATURE						
HT 500 T1	38	1.50	10 - 125	0.39 - 4.92	495	1113	✓	-	✓	✓	✓	-	✓
HT 700 T1	45	1.77	10 - 200	0.39 - 7.87	775	1742	✓	-	✓	✓	✓	-	✓
HT 1000 T1	50	1.97	13 - 300	0.51 - 11.81	970	2181	✓	-	✓	✓	✓	-	✓
HT 500 T2	38	1.50	10 - 125	0.39 - 4.92	480	1079	-	✓	✓	✓	✓	-	✓
HT 700 T2	45	1.77	10 - 200	0.39 - 7.87	750	1686	-	✓	✓	✓	✓	-	✓
HT 1000 T2	50	1.97	13 - 300	0.51 - 11.81	940	2113	-	✓	✓	✓	✓	-	✓

✓ Built-in as standard

✓ Optional upon request

T1

Temperatura di esercizio
Working temperature
Betriebstemperatur
Température de fonctionnement
Temperatura de funcionamiento
Temperatura de funcionamiento

80 ÷ 100°C
176 ÷ 212°F

P max

125 bar
1813 psi

T2

Temperatura di esercizio
Working temperature
Betriebstemperatur
Température de fonctionnement
Temperatura de funcionamiento
Temperatura de funcionamiento

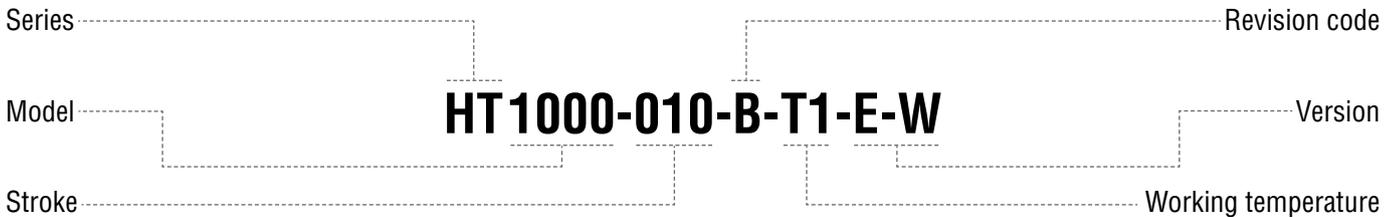
100 ÷ 120°C
212 ÷ 248°F

P max

115 bar
1668 psi



HOW TO ORDER



Available versions



HT 1000-010-B-T1-T2
Standard code



Self contained



HT 1000-010-B-T1-T2-W
Add "-W" to standard code



Self contained



+ Secondary wiper



HT 1000-010-B-T1-T2-N
Add "-N" to standard code



Linkable



HT 1000-010-B-T1-T2-N-W
Add "-N-W" to standard code



Linkable



+ Secondary wiper



HT 1000-010-B-T1-T2-E
Add "-E" to standard code



Easy Manifold



HT 1000-010-B-T1-T2-E-W
Add "-E-W" to standard code



Easy Manifold



+ Secondary wiper



SW

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



HIGH TEMP.

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

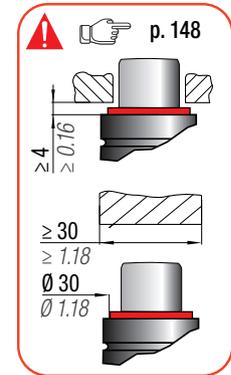
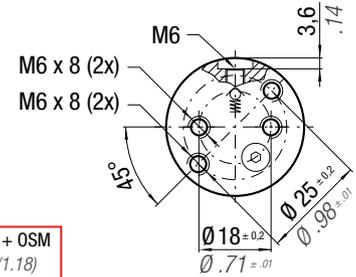
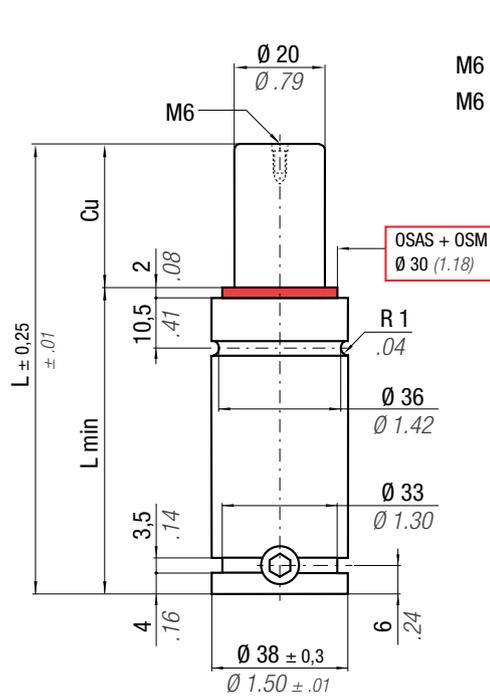
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easu MANIPOL p. 247

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

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

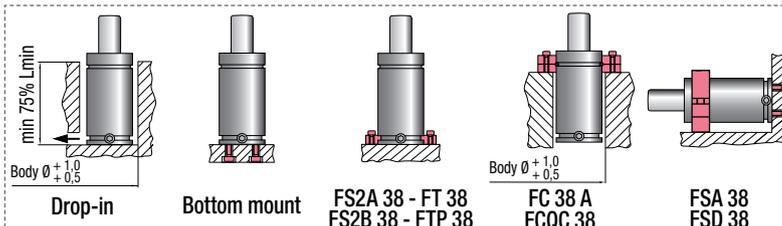


N₂	80 - 100 °C 176 - 212 °F	ΔP ± 0,33 %/°C	P max 125 bar 1813 psi	P min 20 bar 290 psi	S 3,14 cm ² 0,478 in ²	SPM ~ 5 - 20	Max Speed 1 m/s 39,4 in/s	Maintenance kit 39BMMMGS00038B
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀ Initial force daN lb	F _{1i} *		F _{1p} **		V ₀		~Kg ~lb	PED 2014/68/EU	
		mm	inch	mm	inch	mm	inch		daN	lb	daN	lb	cm ³	in ³			
HT 500 - 010 - A - T1	HT 500 - 010 - B - T1	10	0.39	70	2.76	60	2.36	390 877 + 20°C + 68°F 495 1113 + 100°C + 212°F	655	1473	758	1705	14,5	0,88	0,31	0,68	✓
HT 500 - 013 - A - T1	HT 500 - 013 - B - T1	13	0.51	75,7	2.98	62,7	2.47		681	1530	800	1798	16,9	1.03	0,32	0,71	✓
HT 500 - 016 - A - T1	HT 500 - 016 - B - T1	16	0.63	82	3.23	66	2.60		695	1563	823	1851	19,7	1.20	0,34	0,75	✓
HT 500 - 019 - A - T1	HT 500 - 019 - B - T1	19	0.75	88	3.46	69	2.72		692	1556	818	1840	23,6	1.44	0,35	0,77	✓
HT 500 - 025 - A - T1	HT 500 - 025 - B - T1	25	0.98	100	3.94	75	2.95		731	1643	882	1983	27,3	1.67	0,38	0,84	✓
HT 500 - 038 - A - T1	HT 500 - 038 - B - T1	38	1.50	126	4.96	88	3.46		759	1707	930	2091	38,4	2.34	0,44	0,97	✓
HT 500 - 050 - A - T1	HT 500 - 050 - B - T1	50	1.97	150	5.91	100	3.94		775	1742	957	2151	48,6	2.97	0,50	1.10	✓
HT 500 - 063 - A - T1	HT 500 - 063 - B - T1	63	2.48	176,5	6.95	113,5	4.47		783	1761	972	2184	60,0	3.66	0,56	1.23	✓
HT 500 - 080 - A - T1	HT 500 - 080 - B - T1	80	3.15	210	8.27	130	5.12		796	1789	993	2232	74,1	4.52	0,64	1.41	✓
HT 500 - 100 - A - T1	HT 500 - 100 - B - T1	100	3.94	250	9.84	150	5.91		804	1806	1006	2262	91,2	5.57	0,73	1.61	✓
HT 500 - 125 - A - T1	HT 500 - 125 - B - T1	125	4.92	300	11.81	175	6.89		811	1823	1019	2291	112,3	6.85	0,85	1.87	✓

◆ Disposable

End force at 100°C / 212°F

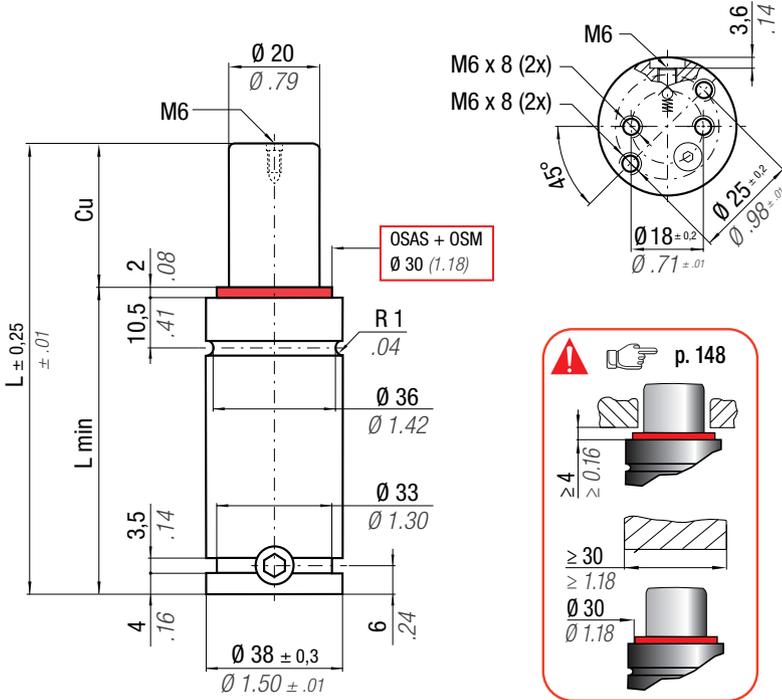


HOW TO ORDER

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

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

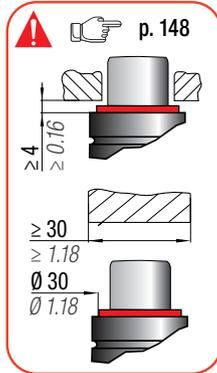
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easu MANIFOLD p. 247

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

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



ACTIVE SAFETY

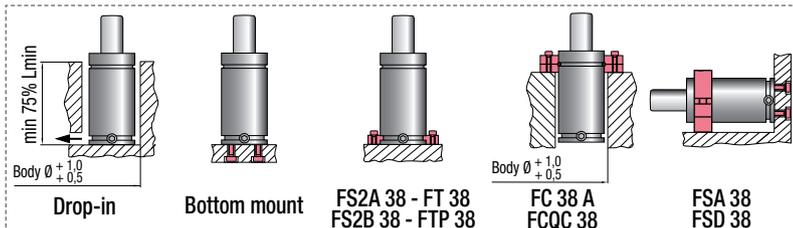


	100 - 120 °C 212 - 248 °F	ΔP ± 0,33 %/°C	P max 115 bar 1668 psi	P min 20 bar 290 psi	S 3,14 cm ² 0.487 in ²	SPM ~ 5 - 20	Max Speed 1 m/s 39.4 in/s	Maintenance kit 39BMMMGS00038B
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀ Initial force		F _{1i} * 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	✓
HT 500 - 010 - A - T2	HT 500 - 010 - B - T2	10	0.39	70	2.76	60	2.36			631	1419	737	1656	14,5	0.88	0,31	0.68	✓
HT 500 - 013 - A - T2	HT 500 - 013 - B - T2	13	0.51	75,7	2.98	62,7	2.47			655	1473	777	1746	16,9	1.03	0,32	0.71	✓
HT 500 - 016 - A - T2	HT 500 - 016 - B - T2	16	0.63	82	3.23	66	2.60	360	809	669	1504	800	1798	19,7	1.20	0,34	0.75	✓
HT 500 - 019 - A - T2	HT 500 - 019 - B - T2	19	0.75	88	3.46	69	2.72			666	1498	795	1787	23,6	1.44	0,35	0.77	✓
HT 500 - 025 - A - T2	HT 500 - 025 - B - T2	25	0.98	100	3.94	75	2.95			703	1579	857	1926	27,3	1.67	0,38	0.84	✓
HT 500 - 038 - A - T2	HT 500 - 038 - B - T2	38	1.50	126	4.96	88	3.46			729	1640	903	2031	38,4	2.34	0,44	0.97	✓
HT 500 - 050 - A - T2	HT 500 - 050 - B - T2	50	1.97	150	5.91	100	3.94	480	1079	744	1673	929	2089	48,6	2.97	0,50	1.10	✓
HT 500 - 063 - A - T2	HT 500 - 063 - B - T2	63	2.48	176,5	6.95	113,5	4.47			752	1691	944	2121	60,0	3.66	0,56	1.23	✓
HT 500 - 080 - A - T2	HT 500 - 080 - B - T2	80	3.15	210	8.27	130	5.12			764	1718	964	2168	74,1	4.52	0,64	1.41	✓
HT 500 - 100 - A - T2	HT 500 - 100 - B - T2	100	3.94	250	9.84	150	5.91			771	1734	977	2198	91,2	5.57	0,73	1.61	✓
HT 500 - 125 - A - T2	HT 500 - 125 - B - T2	125	4.92	300	11.81	175	6.89			778	1749	990	2225	112,3	6.85	0,85	1.87	✓

◆ Disposable

End force at 120°C / 248°F



HOW TO ORDER

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SW

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



HIGH TEMP.

ACTIVE SAFETY



OSAS



USAS



OPAS

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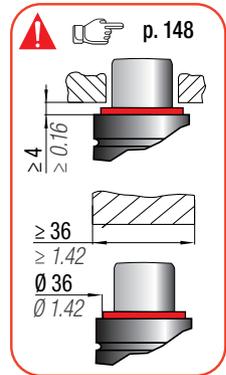
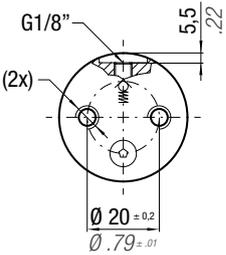
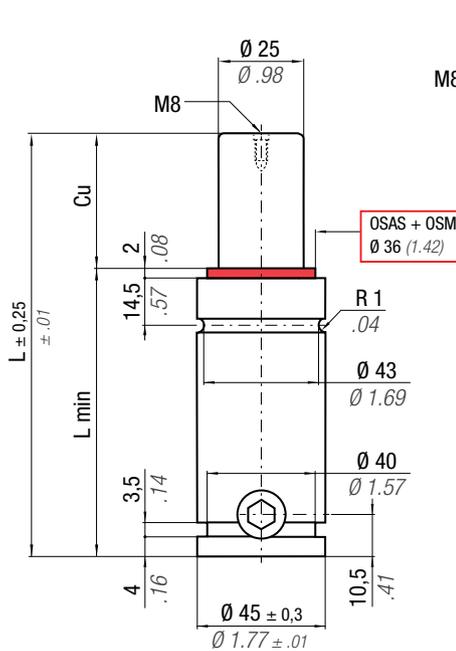
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easu MANIPOL p. 247

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

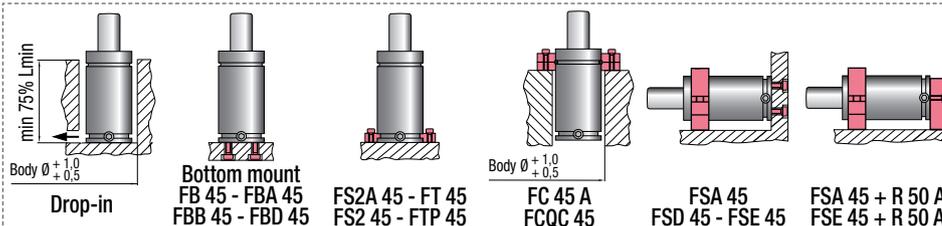


N₂	80 - 100 °C 176 - 212 °F	ΔP $\pm 0,33 \% / ^\circ C$	P max 125 bar 1813 psi	P min 20 bar 290 psi	S 4,91 cm ² 0,761 in ²	SPM ~ 5 - 20	Max Speed 1 m/s 39.4 in/s	Maintenance kit 39BMMMGS00045B
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀		F _{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
HT 700 - 010 - A - T1	HT 700 - 010 - B - T1	10	0.39	105	4.13	95	3.74	615	1383	1007	2263	1158	2603	24,0	1.46	0,90	1.98	✓
HT 700 - 013 - A - T1	HT 700 - 013 - B - T1	13	0.50	110,7	4.35	97,7	3.85			1050	2360	1227	2759	27,4	1.67	0,91	2.01	✓
HT 700 - 025 - A - T1	HT 700 - 025 - B - T1	25	0.98	135	5.31	110	4.33			1147	2578	1387	3119	42,2	2.58	1,00	2.20	✓
HT 700 - 038 - A - T1	HT 700 - 038 - B - T1	38	1.50	161	6.34	123	4.84			1206	2712	1488	3345	58,1	3.55	1,09	2.40	✓
HT 700 - 050 - A - T1	HT 700 - 050 - B - T1	50	1.97	185	7.28	135	5.31			1241	2789	1547	3478	72,7	4.44	1,17	2.58	✓
HT 700 - 063 - A - T1	HT 700 - 063 - B - T1	63	2.48	211,5	8.33	148,5	5.85			1262	2837	1584	3561	89,0	5.43	1,26	2.78	✓
HT 700 - 080 - A - T1	HT 700 - 080 - B - T1	80	3.15	245	9.65	165	6.50			1289	2899	1632	3668	109,2	6.66	1,37	3.02	✓
HT 700 - 100 - A - T1	HT 700 - 100 - B - T1	100	3.94	285	11.22	185	7.28			1308	2940	1664	3742	133,5	8.15	1,51	3.33	✓
HT 700 - 125 - A - T1	HT 700 - 125 - B - T1	125	4.92	335	13.19	210	8.27			1324	2976	1692	3804	163,9	10.00	1,67	3.68	✓
HT 700 - 160 - A - T1	HT 700 - 160 - B - T1	160	6.30	405	15.94	245	9.65			1338	3009	1718	3863	206,5	12.60	1,91	4.21	✓
HT 700 - 200 - A - T1	HT 700 - 200 - B - T1	200	7.87	485	19.09	285	11.22	1349	3034	1738	3907	255,2	15.57	2,20	4.85	✓		

◆ Disposable

End force at 100°C / 212°F

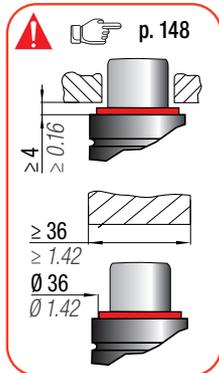
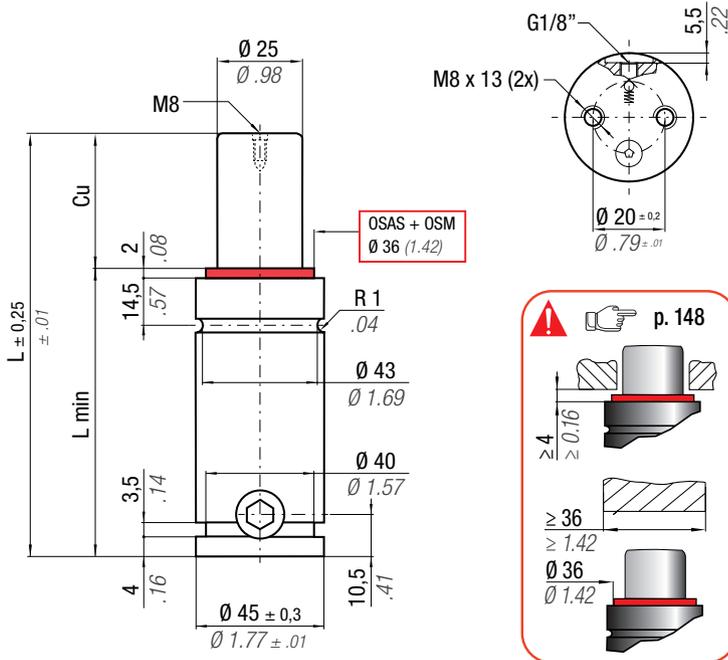


HOW TO ORDER

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INSTALLATION GUIDELINE

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

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easu MANIFOLD p. 247

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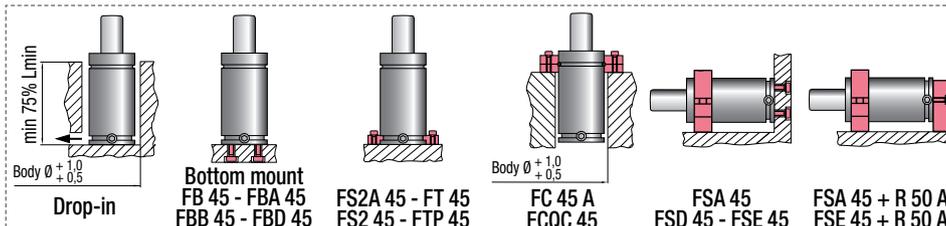
ACTIVE SAFETY



		100 - 120 °C 212 - 248 °F	ΔP ± 0,33 %/°C	P max 115 bar 1668 psi	P min 20 bar 290 psi	S 4,91 cm ² 0.761 in ²	SPM ~ 5 - 20	Max Speed 1 m/s 39.4 in/s	Maintenance kit 39BMMMGS00045B				
CODE PHASING OUT from 04/2021	NEW	Cu	L	L min	F0	F_{1i}*	F_{1p}**	V0					
HT 700 - 010 - A - T2	◆ HT 700 - 010 - B - T2	10 0.39	105 4.13	95 3.74	565 1270 + 20°C + 68°F	970 2181	1125 2528	24,0 1.46	0,90 1.98				
HT 700 - 013 - A - T2	HT 700 - 013 - B - T2	13 0.50	110,7 4.35	97,7 3.85						1011 2273	1192 2680	27,4 1.67	0,91 2.01
HT 700 - 025 - A - T2	HT 700 - 025 - B - T2	25 0.98	135 5.31	110 4.33						1103 2479	1347 3029	42,2 2.58	1,00 2.20
HT 700 - 038 - A - T2	HT 700 - 038 - B - T2	38 1.50	161 6.34	123 4.84						1159 2605	1445 3249	58,1 3.55	1,09 2.40
HT 700 - 050 - A - T2	HT 700 - 050 - B - T2	50 1.97	185 7.28	135 5.31						1191 2678	1503 3378	72,7 4.44	1,17 2.58
HT 700 - 063 - A - T2	HT 700 - 063 - B - T2	63 2.48	211,5 8.33	148,5 5.85						1211 2723	1539 3459	89,0 5.43	1,26 2.78
HT 700 - 080 - A - T2	HT 700 - 080 - B - T2	80 3.15	245 9.65	165 6.50						1237 2781	1585 3563	109,2 6.66	1,37 3.02
HT 700 - 100 - A - T2	HT 700 - 100 - B - T2	100 3.94	285 11.22	185 7.28						1255 2820	1616 3634	133,5 8.15	1,51 3.33
HT 700 - 125 - A - T2	HT 700 - 125 - B - T2	125 4.92	335 13.19	210 8.27						1270 2854	1644 3695	163,9 10.00	1,67 3.68
HT 700 - 160 - A - T2	HT 700 - 160 - B - T2	160 6.30	405 15.94	245 9.65						1283 2885	1669 3752	206,5 12.60	1,91 4.21
HT 700 - 200 - A - T2	HT 700 - 200 - B - T2	200 7.87	485 19.09	285 11.22	1294 2908	1688 3794	255,2 15.57	2,20 4.85					

◆ Disposable

End force at 120°C / 248°F



HOW TO ORDER

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HIGH TEMP.

ACTIVE SAFETY



OSAS



USAS



OPAS

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

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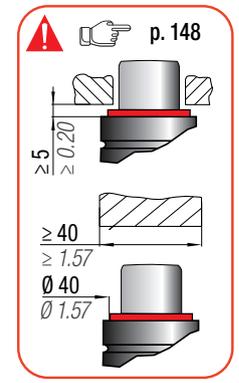
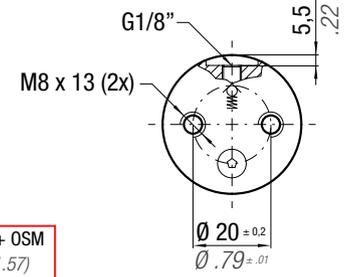
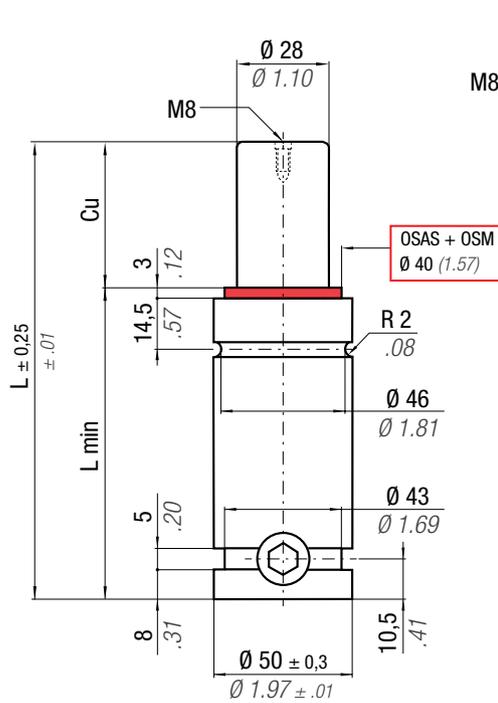
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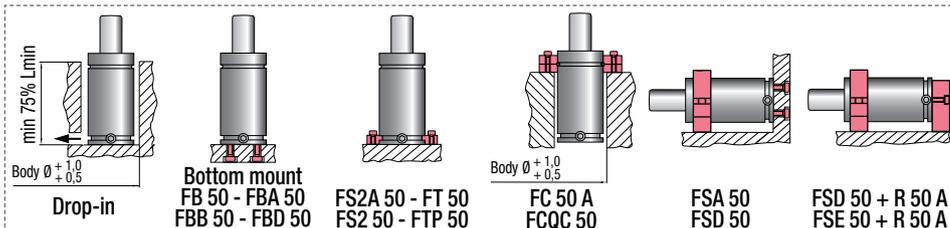


N ₂	80 - 100 °C 176 - 212 °F	ΔP ± 0,33 %/°C	P max 125 bar 1813 psi	P min 20 bar 290 psi	S 6,15 cm ² 0,953 in ²	SPM ~ 5 - 20	Max Speed 1 m/s 39.4 in/s	Maintenance kit 39BMHT01000A
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³		~Kg	~lb
HT 1000-013-A-T1	HT 1000-013-B-T1	13	0.50	120,7	4.74	107,7	4.24	770 + 20°C + 68°F 970 + 100°C + 212°F	1731	1252	2814	1435	3225	40	2.47	1,21	2.67	✓
HT 1000-025-A-T1	HT 1000-025-B-T1	25	0.98	145	5.71	120	4.72			1373	3088	1632	3668	59	3.60	1,32	2.91	✓
HT 1000-038-A-T1	HT 1000-038-B-T1	38	1.50	171	6.73	133	5.24			1454	3269	1766	3970	79	4.81	1,43	3.15	✓
HT 1000-050-A-T1	HT 1000-050-B-T1	50	1.97	195	7.68	145	5.71			1503	3380	1850	4158	97	5.92	1,53	3.37	✓
HT 1000-063-A-T1	HT 1000-063-B-T1	63	2.48	221	8.74	158	6.22			1542	3465	1915	4305	117	7.13	1,64	3.62	✓
HT 1000-075-A-T1	HT 1000-075-B-T1	75	2.95	245	9.65	170	6.69			1568	3525	1960	4407	135	8.24	1,74	3.84	✓
HT 1000-080-A-T1	HT 1000-080-B-T1	80	3.15	255	10.04	175	6.89			1577	3545	1976	4442	143	8.70	1,78	3.92	✓
HT 1000-100-A-T1	HT 1000-100-B-T1	100	3.94	295	11.61	195	7.68			1606	3611	2027	4557	173	10.56	1,96	4.32	✓
HT 1000-125-A-T1	HT 1000-125-B-T1	125	4.92	345	13.58	220	8.66			1632	3668	2072	4657	211	12.88	2,17	4.78	✓
HT 1000-150-A-T1	HT 1000-150-B-T1	150	5.91	395	15.55	245	9.65			1650	3709	2104	4729	249	15.20	2,38	5.25	✓
HT 1000-160-A-T1	HT 1000-160-B-T1	160	6.30	415	16.34	255	10.04			1656	3722	2114	4753	264	16.13	2,46	5.42	✓
HT 1000-175-A-T1	HT 1000-175-B-T1	175	6.89	445	17.52	270	10.63			1663	3739	2128	4783	287	17.52	2,59	5.71	✓
HT 1000-200-A-T1	HT 1000-200-B-T1	200	7.87	495	19.49	295	11.61			1674	3763	2146	4825	325	19.84	2,79	6.15	✓
HT 1000-250-A-T1	HT 1000-250-B-T1	250	9.84	595	23.43	345	13.58			1689	3797	2174	4887	401	24.48	3,21	7.08	✓
HT 1000-300-A-T1	HT 1000-300-B-T1	300	11.81	695	27.36	395	15.55			1700	3821	2193	4929	477	29.13	3,63	8.00	✓

◆ Disposable

End force at 100°C / 212°F

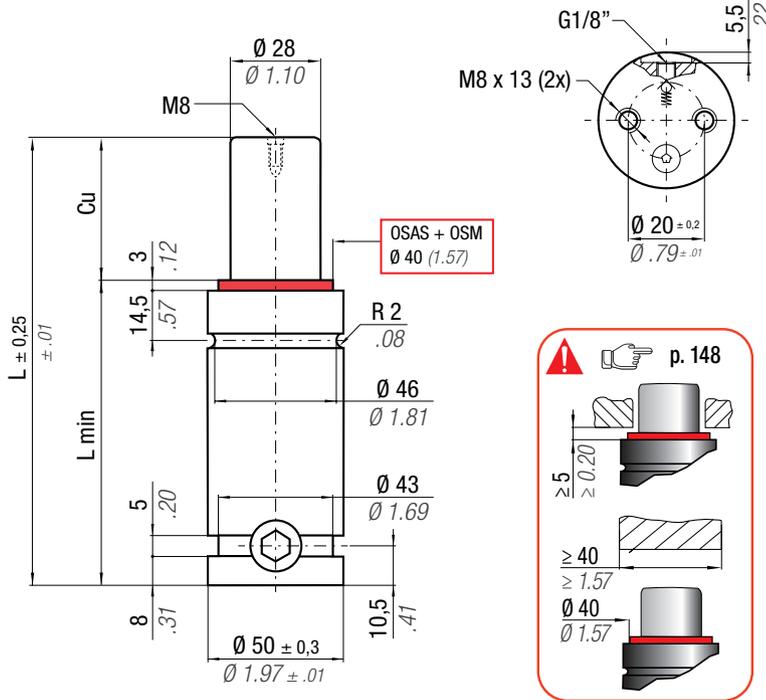


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OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER

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

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

easu MANIFOLD p. 247

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

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



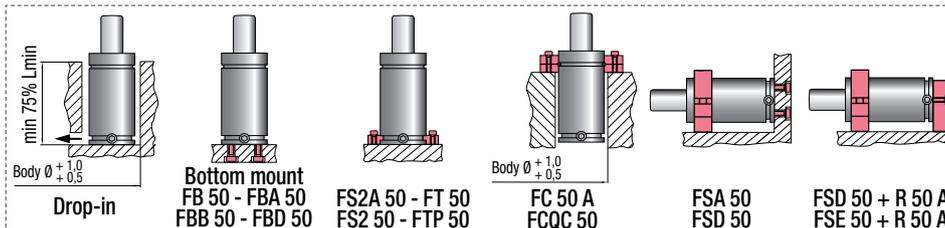
ACTIVE SAFETY



		100 - 120 °C 212 - 248 °F	ΔP ± 0,33 %/°C	P max 115 bar 1668 psi	P min 20 bar 290 psi	S 6,15 cm ² 0.953 in ²	SPM ~ 5 - 20	Max Speed 1 m/s 39.4 in/s	Maintenance kit 39BMT01000A									
CODE		Cu	L	L min	F₀		F_{1i} *		F_{1p} **		V₀							
PHASING OUT from 04/2021	NEW	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
HT 1000-013-A-T2	HT 1000-013-B-T2	13	0.50	120,7	4.74	107,7	4.24			1206	2712	1393	3133	40	2.47	1,21	2.67	✓
HT 1000-025-A-T2	HT 1000-025-B-T2	25	0.98	145	5.71	120	4.72			1322	2971	1585	3563	59	3.60	1,32	2.91	✓
HT 1000-038-A-T2	HT 1000-038-B-T2	38	1.50	171	6.73	133	5.24			1398	3142	1715	3856	79	4.81	1,43	3.15	✓
HT 1000-050-A-T2	HT 1000-050-B-T2	50	1.97	195	7.68	145	5.71			1444	3247	1797	4039	97	5.92	1,53	3.37	✓
HT 1000-063-A-T2	HT 1000-063-B-T2	63	2.48	221	8.74	158	6.22	705	1585	1480	3328	1860	4181	117	7.13	1,64	3.62	✓
HT 1000-075-A-T2	HT 1000-075-B-T2	75	2.95	245	9.65	170	6.69	+ 20°C		1505	3383	1904	4280	135	8.24	1,74	3.84	✓
HT 1000-080-A-T2	HT 1000-080-B-T2	80	3.15	255	10.04	175	6.89	+ 68°F		1514	3403	1919	4315	143	8.70	1,78	3.92	✓
HT 1000-100-A-T2	HT 1000-100-B-T2	100	3.94	295	11.61	195	7.68			1541	3465	1969	4426	173	10.56	1,96	4.32	✓
HT 1000-125-A-T2	HT 1000-125-B-T2	125	4.92	345	13.58	220	8.66	940	2113	1565	3519	2012	4524	211	12.88	2,17	4.78	✓
HT 1000-150-A-T2	HT 1000-150-B-T2	150	5.91	395	15.55	245	9.65	+ 120°C		1582	3557	2043	4593	249	15.20	2,38	5.25	✓
HT 1000-160-A-T2	HT 1000-160-B-T2	160	6.30	415	16.34	255	10.04	+ 248°F		1588	3570	2053	4616	264	16.13	2,46	5.42	✓
HT 1000-175-A-T2	HT 1000-175-B-T2	175	6.89	445	17.52	270	10.63			1595	3586	2067	4646	287	17.52	2,59	5.71	✓
HT 1000-200-A-T2	HT 1000-200-B-T2	200	7.87	495	19.49	295	11.61			1605	3608	2085	4687	325	19.84	2,79	6.15	✓
HT 1000-250-A-T2	HT 1000-250-B-T2	250	9.84	595	23.43	345	13.58			1619	3641	2111	4746	401	24.48	3,21	7.08	✓
HT 1000-300-A-T2	HT 1000-300-B-T2	300	11.81	695	27.36	395	15.55			1629	3663	2130	4788	477	29.13	3,63	8.00	✓

◆ Disposable

End force at 120°C / 248°F



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