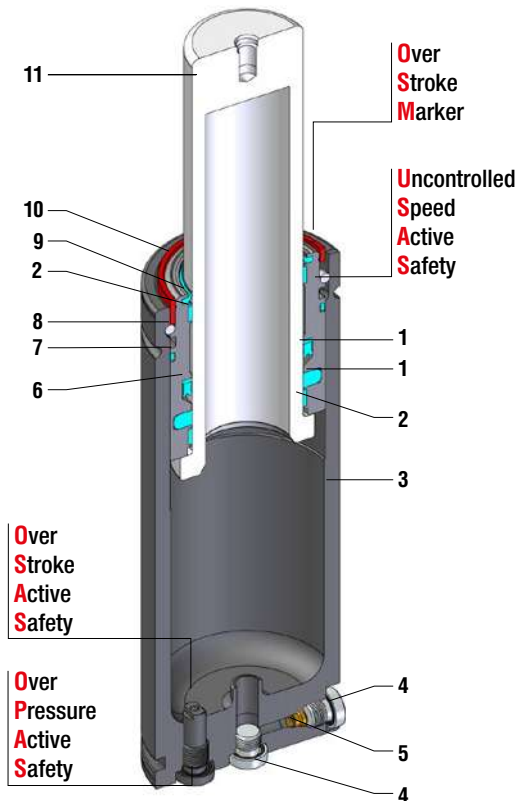


ISO standard, high force - ISO Standard, erhöhte Kraft
 Standard ISO, force majorée - ISO standard, fuerza potenciada - Norma ISO, força permitida



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

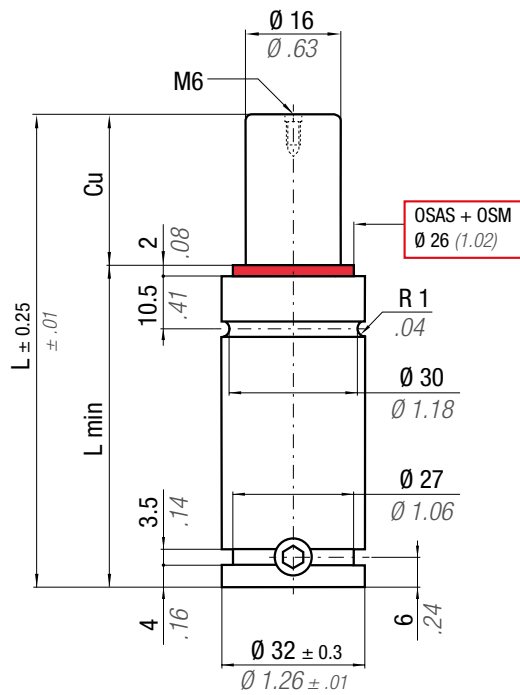
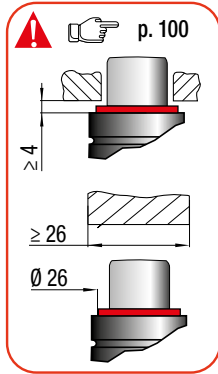
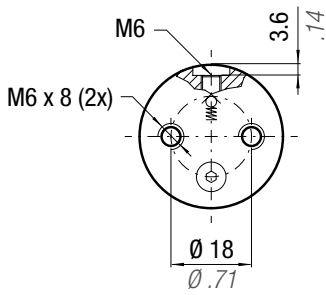
SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

Available versions

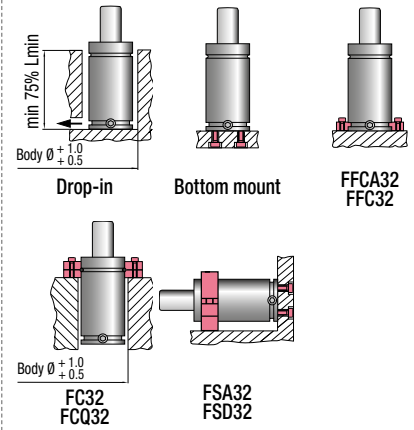
Standard code	Add "-W" to standard code	Add "-N" to standard code	Add "-N-W" to standard code	Add "-E" to standard code
Self contained	Self contained	Linkable	Linkable	Easy Manifold
	+ Secondary wiper		+ Secondary wiper	

Order Callout Example:
 GSSH2400-50
 GSSH2400-50-W
 GSSH2400-50-N
 GSSH2400-50-N-W
 GSSH2400-50-E

Model	Body Ø		Stroke Cu		Initial force F0					
	mm	inch	mm	inch	daN	lb				
GSSH300	32	1.26	10 - 125	0.39 - 4.92	300	674	✓	✓	✓	-
GSSH500	38	1.50	10 - 125	0.39 - 4.92	470	1057	✓	✓	✓	-
GSSH500	M 38 X 1.5	M 38 X 1.5	10 - 125	0.39 - 4.92	470	1057	✓	✓	✓	-
GSSH700	45	1.77	10 - 160	0.51 - 6.30	680	1529	✓	✓	✓	-
GSSH1000	50	1.97	13 - 300	0.51 - 11.81	920	2383	✓	✓	✓	-
GSSH1500	63	2.48	13 - 300	0.51 - 11.81	1530	3440	✓	✓	✓	-
GSSH2400	75	2.95	25 - 300	0.98 - 11.81	2385	5362	✓	✓	✓	-
GSSH4200	95	3.74	25 - 300	0.98 - 11.81	4240	9532	✓	✓	✓	-
GSSH6600	120	4.72	25 - 300	0.98 - 11.81	6630	14905	✓	✓	✓	-
GSSH9500	150	5.91	25 - 300	0.98 - 11.81	9540	21446	✓	✓	✓	-
GSSH18500	195	7.68	25 - 300	0.98 - 11.81	18400	41365	✓	✓	✓	-



Fixings



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

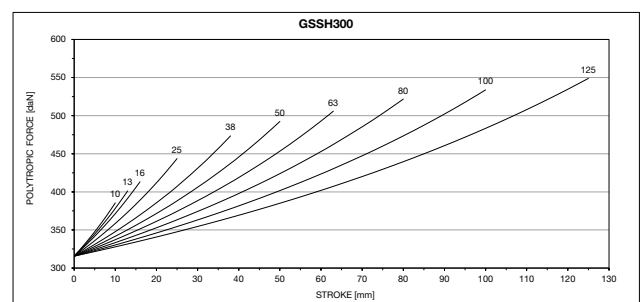
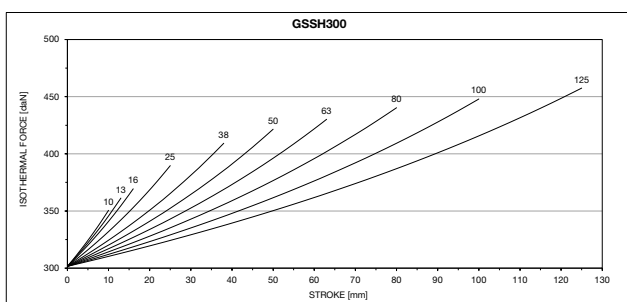
* F_{1i} = Isothermal end force at 100% Cu
 ** F_{1p} = Polytropic end force at 100% Cu

	°F 32 - 176	°C 0 - 80	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	Maintenance kit GSRK-39BMRV00350C
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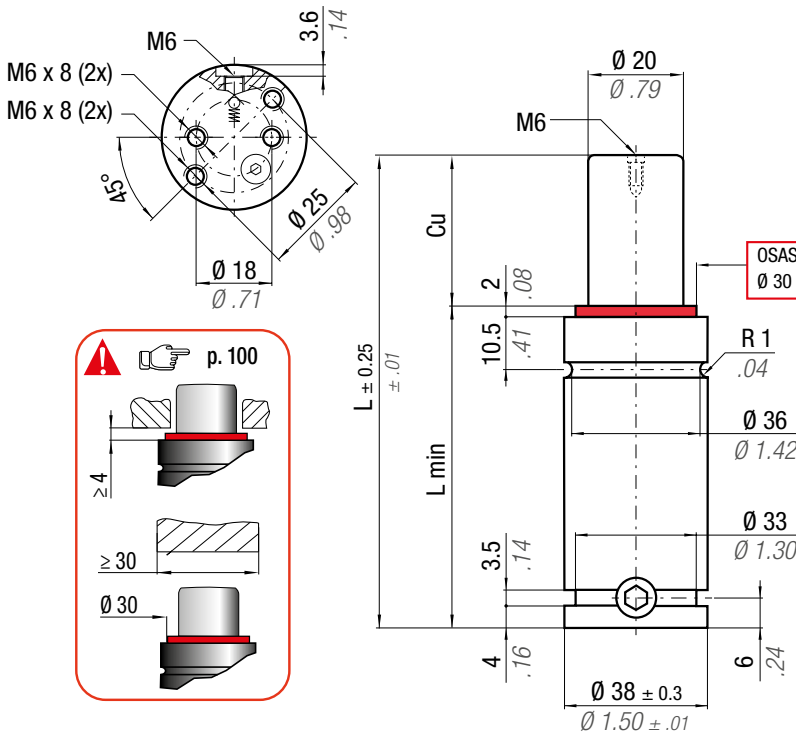
CALLOUT	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
GSSH300-10	10	0.39	70	2.76	60	2.36	300 ± 5% 150 bar 2175 psi + 20 °C +68 °F	674	350	787	385	865	17.0	1.04	0.22	0.49	✓
GSSH300-13	13	0.51	75.7	2.98	62.7	2.47			361	811	400	900	19.0	1.16	0.23	0.51	✓
GSSH300-16	16	0.63	82	3.23	66	2.60			369	829	412	927	21.0	1.28	0.24	0.53	✓
GSSH300-25	25	0.98	100	3.94	75	2.95			389	875	443	995	26.0	1.59	0.26	0.57	✓
GSSH300-38	38	1.50	126	4.96	88	3.46			409	919	473	1062	34.0	2.07	0.31	0.68	✓
GSSH300-50	50	1.97	150	5.91	100	3.94			421	947	492	1105	41.0	2.50	0.35	0.77	✓
GSSH300-63	63	2.48	176.5	6.95	113.5	4.47			430	966	505	1136	49.0	2.99	0.39	0.86	✓
GSSH300-80	80	3.15	210	8.27	130	5.12			440	989	521	1171	59.0	3.60	0.44	0.97	✓
GSSH300-100	100	3.94	250	9.84	150	5.91			448	1006	533	1199	71.0	4.33	0.51	1.12	✓
GSSH300-125	125	4.92	300	11.81	175	6.89			454	1022	544	1223	86.0	5.25	0.59	1.30	✓

Order Callout Example:

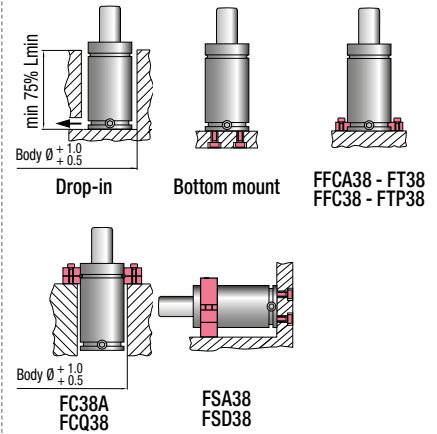
GSSH300-50
 GSSH300-50-N
 GSSH300-50-CP



GSSH 500



Fixings



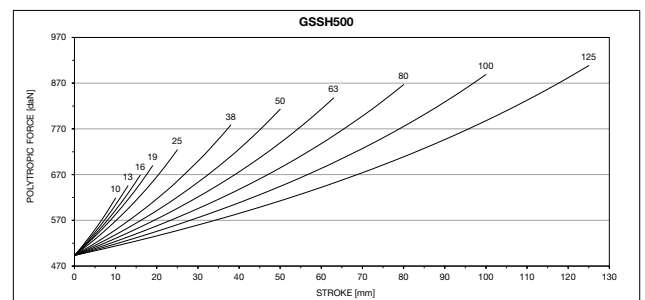
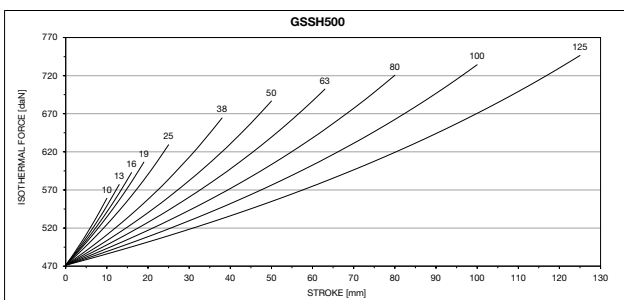
OSAS + OSM = **OVER STROKE ACTIVE SAFETY** + **OVER STROKE MARKER**

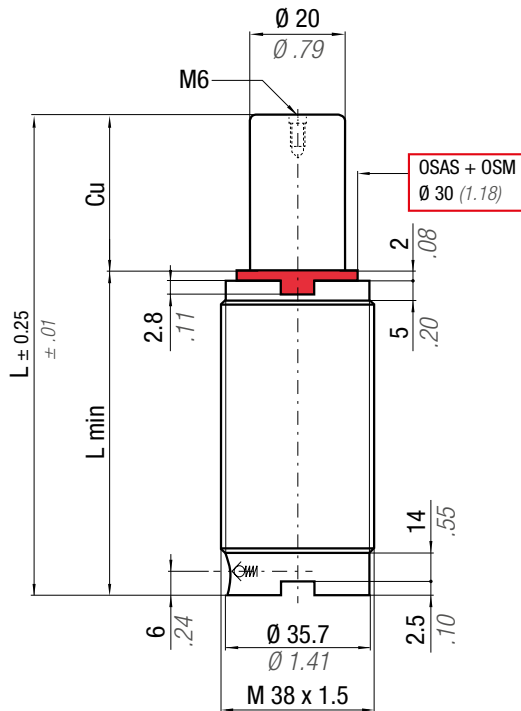
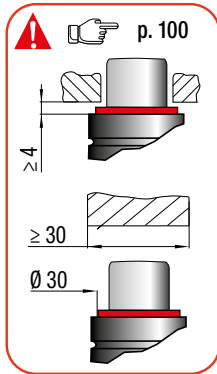
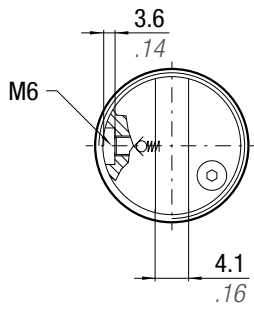
* F_{1i} = Isothermal end force at 100% Cu
 ** F_{1p} = Polytrophic end force at 100% Cu

	$^{\circ}\text{F}$ 32 - 176	$^{\circ}\text{C}$ 0 - 80	ΔP $\pm 0.33\% / ^{\circ}\text{C}$	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	Maintenance kit GSRK-39BMRV00500C
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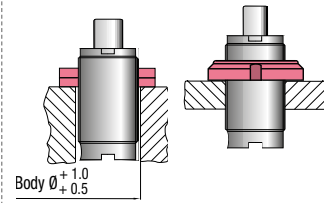
CALLOUT	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED 2014/68/EU		
	mm	inch	mm	inch	mm	inch	Initial force daN	lb	End force * daN	lb	End force ** daN	lb	cm ³	in ³		~Kg	~lb
GSSH500-10	10	0.39	70	2.76	60	2.36	470 1057 ± 5% 150 bar 2175 psi + 20 °C +68 °F		559	1257	619	1391	24.0	1.46	0.32	0.71	✓
GSSH500-13	13	0.51	75.7	2.98	62.7	2.47			578	1300	647	1455	26.0	1.59	0.33	0.73	✓
GSSH500-16	16	0.63	82	3.23	66	2.60			593	1333	669	1504	29.0	1.77	0.34	0.75	✓
GSSH500-19	19	0.75	88	3.46	69	2.72			606	1363	690	1550	31.0	1.89	0.36	0.79	✓
GSSH500-25	25	0.98	100	3.94	75	2.95			629	1415	724	1628	36.0	2.20	0.39	0.86	✓
GSSH500-38	38	1.50	126	4.96	88	3.46			664	1494	778	1750	48.0	2.93	0.45	0.99	✓
GSSH500-50	50	1.97	150	5.91	100	3.94			687	1544	813	1828	58.0	3.54	0.50	1.10	✓
GSSH500-63	63	2.48	176.5	6.95	113.5	4.47			702	1579	838	1883	70.0	4.27	0.57	1.26	✓
GSSH500-80	80	3.15	210	8.27	130	5.12			721	1620	867	1948	84.0	5.12	0.64	1.41	✓
GSSH500-100	100	3.94	250	9.84	150	5.91			734	1651	889	1998	101.0	6.16	0.74	1.63	✓
GSSH500-125	125	4.92	300	11.81	175	6.89			746	1678	908	2042	123.0	7.50	0.86	1.90	✓

Order Callout Example:
GSSH500-50
GSSH500-50-N
GSSH500-50-CP





Fixings



FCA 38

GM38

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

* F_{1i} =

Isothermal end force at 100% Cu



p. 16

** F_{1p} =

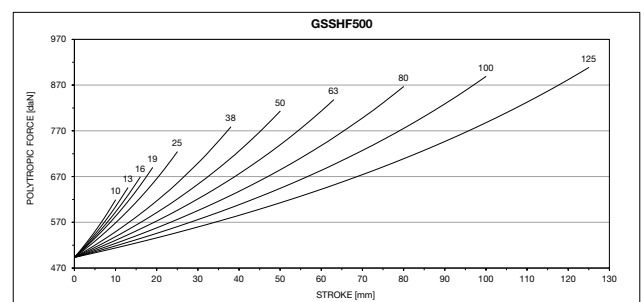
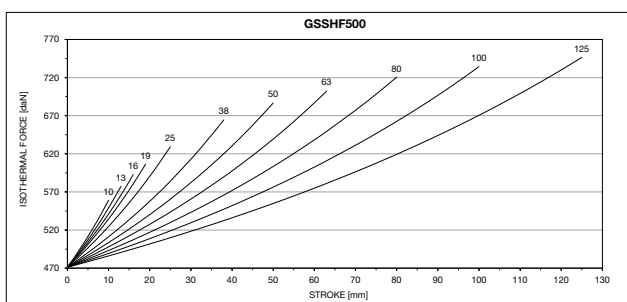
Polytropic end force at 100% Cu



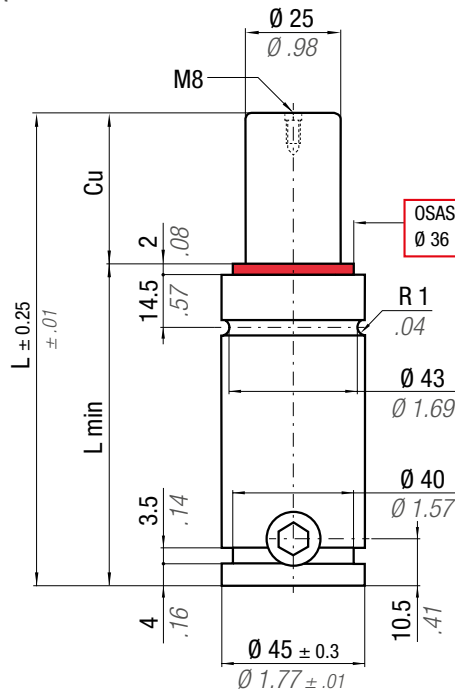
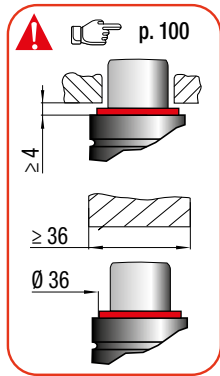
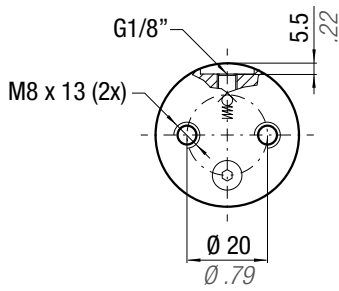
	$^{\circ}\text{F}$ 32 -176	$^{\circ}\text{C}$ 0 -80	ΔP $\pm 0.33\% / ^{\circ}\text{C}$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 3.14 cm ² 0.487 in ²	SPM ~ 30 ÷ 100 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit GSRK-39BMRV00500B
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CALLOUT	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
GSSH F 500-10	10	0.39	70	2.76	60	2.36	470 ± 5% 150 bar 2175 psi + 20 °C +68 °F	1057	559	1257	619	1391	24.0	1.46	0.31	0.68	✓
GSSH F 500-13	13	0.51	75.7	2.98	62.7	2.47			578	1300	647	1455	26.0	1.59	0.32	0.71	✓
GSSH F 500-16	16	0.63	82	3.23	66	2.60			593	1333	669	1504	29.0	1.77	0.34	0.75	✓
GSSH F 500-19	19	0.75	88	3.46	69	2.72			606	1363	690	1550	31.0	1.89	0.35	0.77	✓
GSSH F 500-25	25	0.98	100	3.94	75	2.95			629	1415	724	1628	36.0	2.20	0.38	0.84	✓
GSSH F 500-38	38	1.50	126	4.96	88	3.46			664	1494	778	1750	48.0	2.93	0.44	0.97	✓
GSSH F 500-50	50	1.97	150	5.91	100	3.94			687	1544	813	1828	58.0	3.54	0.50	1.10	✓
GSSH F 500-63	63	2.48	176.5	6.95	113.5	4.47			702	1579	838	1883	70.0	4.27	0.56	1.23	✓
GSSH F 500-80	80	3.15	210	8.27	130	5.12			721	1620	867	1948	84.0	5.12	0.64	1.41	✓
GSSH F 500-100	100	3.94	250	9.84	150	5.91			734	1651	889	1998	101.0	6.16	0.73	1.61	✓
GSSH F 500-125	125	4.92	300	11.81	175	6.89			746	1678	908	2042	123.0	7.50	0.85	1.87	✓

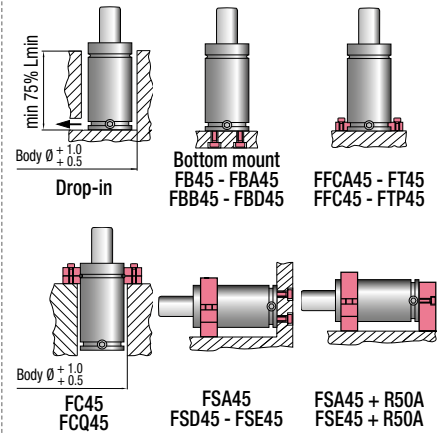
Order Callout Example:
GSSH F 500-50
GSSH F 500-50-N
GSSH F 500-50-CP





GSSH 700




Fixings



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

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

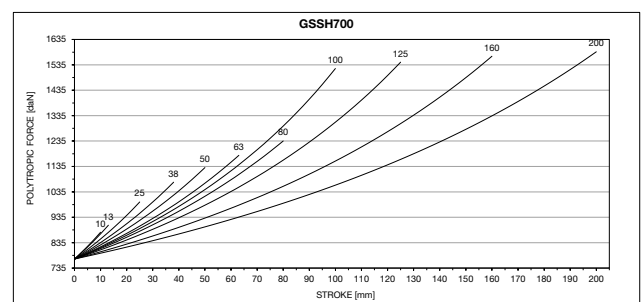
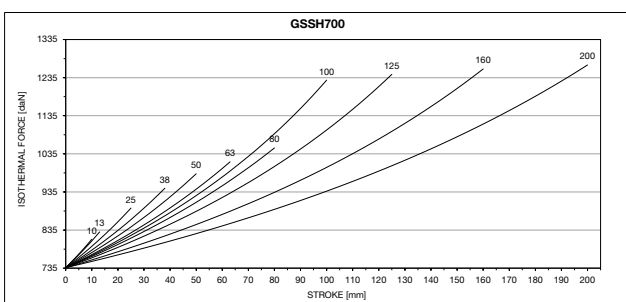
 N ₂	°F 32 - 176	°C 0 - 80	ΔP ± 0.33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4.91 cm ² 0.761 in ²	SPM ~ 20 ÷ 100 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit See Tab below
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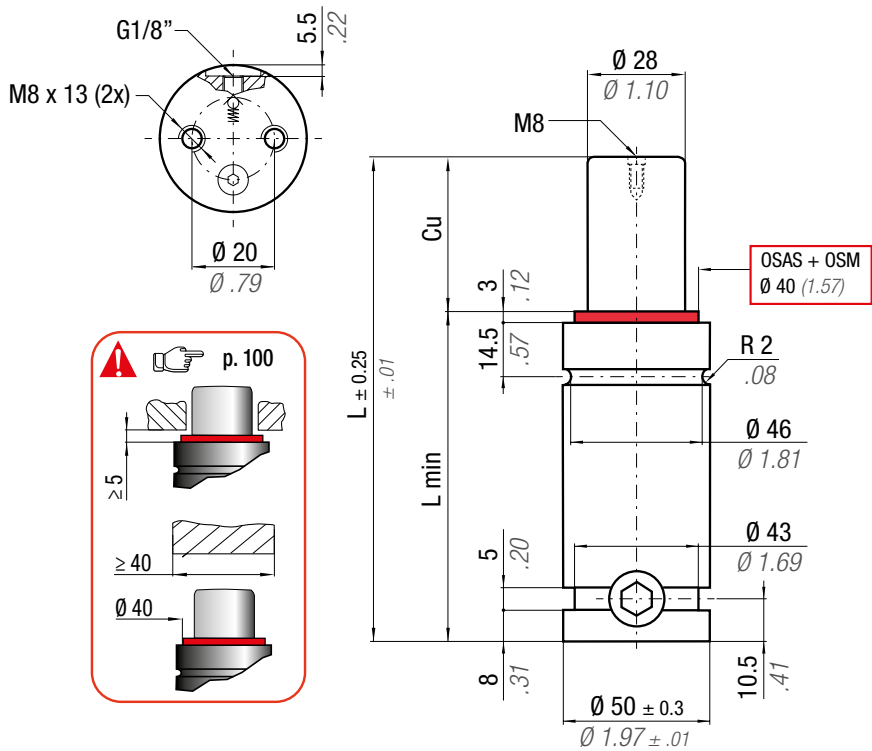
CALLOUT	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED 2014/68/EU		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³		~Kg	~lb
GSSH700-10	10	0.39	105	4.13	95	3.74	740 1664 ± 5% 150 bar 2175 psi + 20 °C +68 °F		811	1823	876	1969	63.0	3.84	0.90	1.98	✓
GSSH700-13	13	0.50	110.7	4.35	97.7	3.85			830	1866	904	2032	67.0	4.09	0.91	2.01	✓
GSSH700-25	25	0.98	135	5.31	110	4.33			893	2008	995	2237	82.0	5.00	1.00	2.20	✓
GSSH700-38	38	1.50	161	6.34	123	4.84			945	2124	1073	2412	99.0	6.04	1.09	2.40	✓
GSSH700-50	50	1.97	185	7.28	135	5.31			983	2210	1131	2543	114.0	6.95	1.17	2.58	✓
GSSH700-63	63	2.48	211.5	8.33	148.5	5.85			1014	2280	1179	2650	131.0	7.99	1.26	2.78	✓
GSSH700-80	80	3.15	245	9.65	165	6.50			1050	2360	1235	2776	152.0	9.27	1.37	3.02	✓
GSSH700-100	100	3.94	285	11.22	185	7.28			1228	2761	1520	3418	140.0	8.54	1.51	3.33	✓
GSSH700-125	125	4.92	335	13.19	210	8.27			1244	2796	1546	3475	172.0	10.49	1.67	3.68	✓
GSSH700-160	160	6.30	405	15.94	245	9.65			1258	2827	1569	3527	217.0	13.24	1.91	4.21	✓

Order Callout Example:

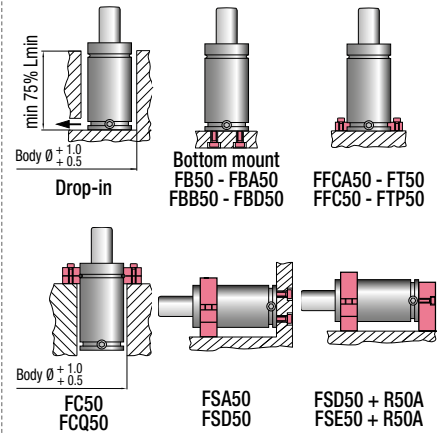
GSSH700-50
 GSSH700-50-N
 GSSH700-50-CP

Model (Cu)	Rev.	Maintenance kit
GSSH700 (010 ÷ 080)	C	GSRK-39BMRV00750B
GSSH700 (100 ÷ 160)	C	GSRK-39BMH00700C
GSSH700 (010 ÷ 160)	D	GSRK-39BMH00700D





Fixings



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

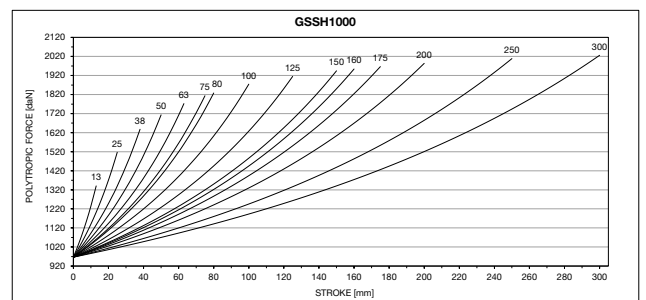
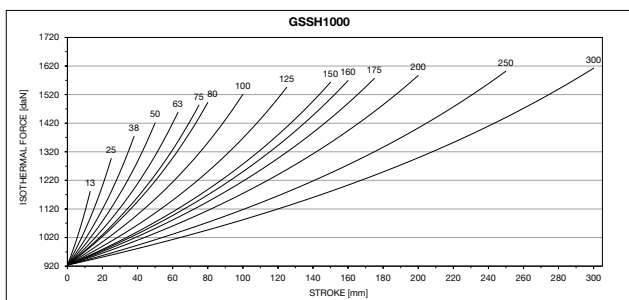
* F_{1i} = Isothermal end force at 100% Cu $p. 16$
 ** F_{1p} = Polytropic end force at 100% Cu $p. 16$

	32°F 0°C	176°F 80°C	ΔP $\pm 0.33\% / ^{\circ}\text{C}$	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	Maintenance kit See Tab below
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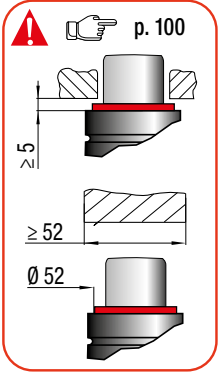
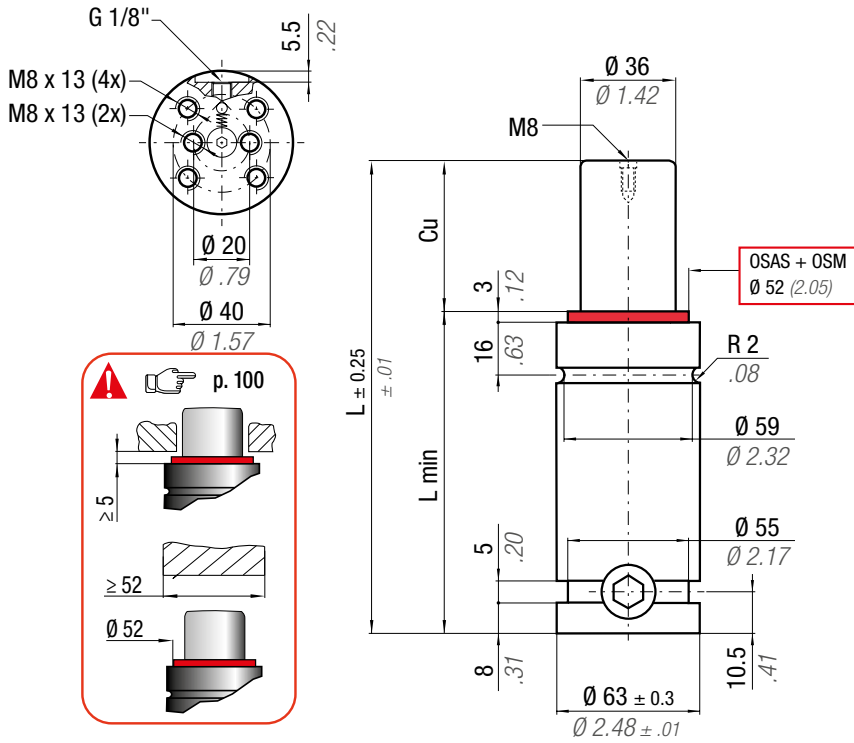
CALLOUT	Cu		L		L min		F0		F _{1i} *		F _{1p} **		V0		~Kg	~lb	PED 2014/68/EU
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³			
GSSH1000-13	13	0.50	120.7	4.74	107.7	4.24	920 2068 ± 5%		1181	2655	1340	3012	43.0	2.62	1.21	2.67	✓
GSSH1000-25	25	0.98	145	5.71	120	4.72			1297	2916	1517	3410	62.0	3.78	1.32	2.91	✓
GSSH1000-38	38	1.50	171	6.73	133	5.24			1374	3089	1638	3682	83.0	5.06	1.43	3.15	✓
GSSH1000-50	50	1.97	195	7.68	145	5.71			1421	3195	1713	3851	101.0	6.16	1.53	3.37	✓
GSSH1000-63	63	2.48	221	8.74	158	6.22			1458	3278	1772	3984	122.0	7.44	1.64	3.62	✓
GSSH1000-75	75	2.95	245	9.65	170	6.69			1483	3334	1814	4078	141.0	8.60	1.74	3.84	✓
GSSH1000-80	80	3.15	255	10.04	175	6.89			1492	3354	1828	4110	149.0	9.09	1.78	3.92	✓
GSSH1000-100	100	3.94	295	11.61	195	7.68			1521	3419	1874	4214	180.0	10.98	1.96	4.32	✓
GSSH1000-125	125	4.92	345	13.58	220	8.66			1546	3475	1915	4305	219.0	13.36	2.17	4.78	✓
GSSH1000-150	150	5.91	395	15.55	245	9.65			1563	3515	1944	4371	258.0	15.74	2.38	5.25	✓
GSSH1000-160	160	6.30	415	16.34	255	10.04	1569	3528	1954	4393	274.0	16.71	2.46	5.42	✓		
GSSH1000-175	175	6.89	445	17.52	270	10.63	1577	3545	1966	4421	298.0	18.18	2.59	5.71	✓		
GSSH1000-200	200	7.87	495	19.49	295	11.61	1587	3568	1984	4459	337.0	20.56	2.79	6.15	✓		
GSSH1000-250	250	9.84	595	23.43	345	13.58	1602	3602	2009	4515	416.0	25.38	3.21	7.08	✓		
GSSH1000-300	300	11.81	695	27.36	395	15.55	1613	3625	2026	4554	494.0	30.13	3.63	8.00	✓		

Order Callout Example:
 GSSH1000-50
 GSSH1000-50-N
 GSSH1000-50-CP

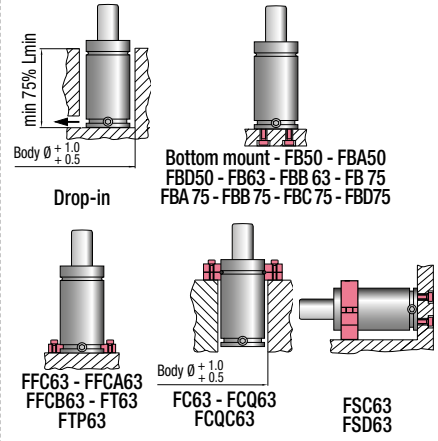
Model (Cu)	Rev.	Maintenance kit
GSSH1000 (013 ÷ 080)	C	GSRK-39BMRV01000B
GSSH1000 (100 ÷ 300)	C	GSRK-39BMH01000D
GSSH1000 (013 ÷ 300)	D	GSRK-39BMH01000D



GSSH 1500



Fixings



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

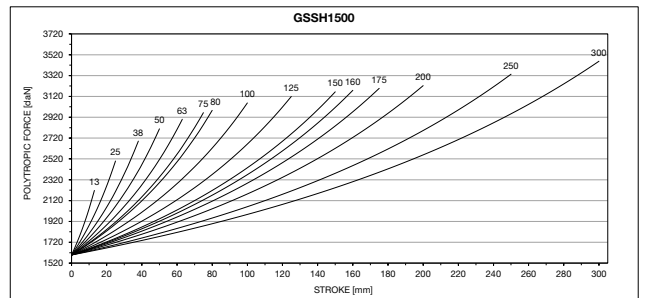
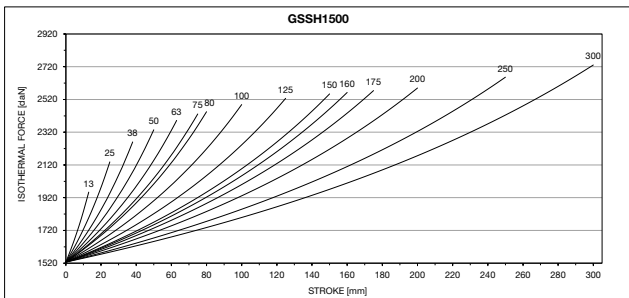
* F_{1i} = Isothermal end force at 100% Cu p. 16
 ** F_{1p} = Polytropic end force at 100% Cu

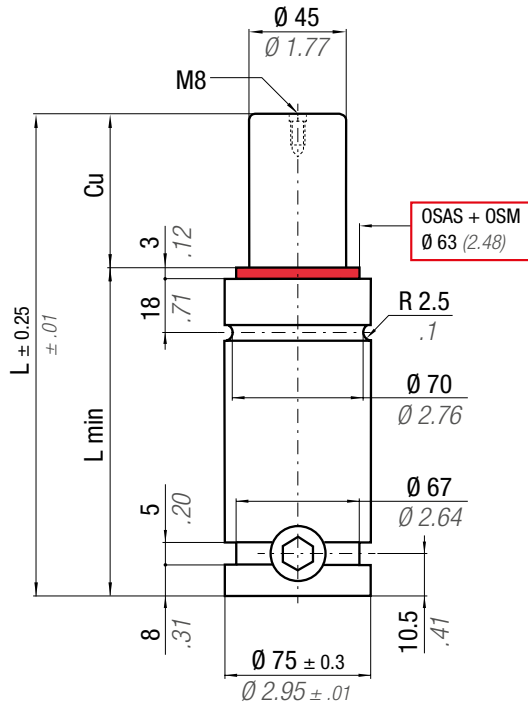
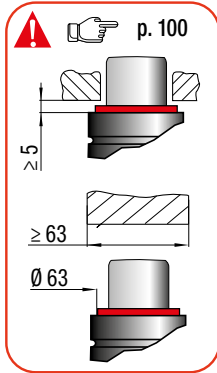
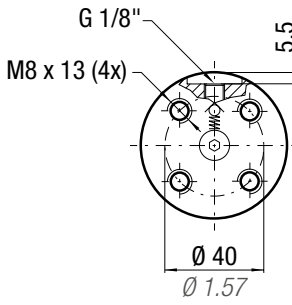
	°F 32 - 176	°C 0 - 80	ΔP ± 0.33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 10.17 cm ² 1.576 in ²	SPM ~ 15 ÷ 100 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit GSRK-39BMH01500C-CU-13-80 GSRK-39BMH01500CH-CU-100-300
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CALLOUT	Cu		L		L min		F ₀		F _{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
GSSH1500-13	13	0.51	120.7	4.75	107.7	4.24	1530 3440 ± 5%		1954	4393	2217	4984	71.0	4.33	1.98	4.37	✓
GSSH1500-25	25	0.98	145	5.71	120	4.72			2139	4809	2500	5620	103.0	6.28	2.13	4.70	✓
GSSH1500-38	38	1.50	171	6.73	133	5.24			2261	5083	2691	6050	138.0	8.42	2.29	5.05	✓
GSSH1500-50	50	1.97	195	7.68	145	5.71			2335	5249	2809	6315	170.0	10.37	2.44	5.38	✓
GSSH1500-63	63	2.48	221	8.70	158	6.22			2392	5377	2900	6519	204.0	12.44	2.60	5.73	✓
GSSH1500-75	75	2.95	245	9.65	170	6.69			2431	5465	2964	6663	236.0	14.40	2.75	6.06	✓
GSSH1500-80	80	3.15	255	10.04	175	6.89			2445	5497	2986	6713	249.0	15.19	2.81	6.19	✓
GSSH1500-100	100	3.94	295	11.61	195	7.68			2489	5595	3057	6872	302.0	18.42	3.03	6.68	✓
GSSH1500-125	125	4.92	345	13.58	220	8.66			2527	5681	3119	7012	369.0	22.51	3.34	7.36	✓
GSSH1500-150	150	5.91	395	15.55	245	9.65			2554	5742	3164	7113	435.0	26.54	3.64	8.02	✓
GSSH1500-160	160	6.30	415	16.34	255	10.04	2563	5762	3178	7144	462.0	28.18	3.77	8.31	✓		
GSSH1500-175	175	6.89	445	17.52	270	10.63	2574	5787	3197	7187	501.0	30.56	3.95	8.71	✓		
GSSH1500-200	200	7.87	495	19.49	295	11.61	2590	5823	3223	7246	568.0	34.65	4.26	9.39	✓		
GSSH1500-250	250	9.84	595	23.43	345	13.58	2656	5971	3333	7493	684.0	41.72	4.99	11.00	✓		
GSSH1500-300	300	11.81	695	27.36	395	15.55	2731	6140	3458	7774	790.0	48.19	5.81	12.81	✓		

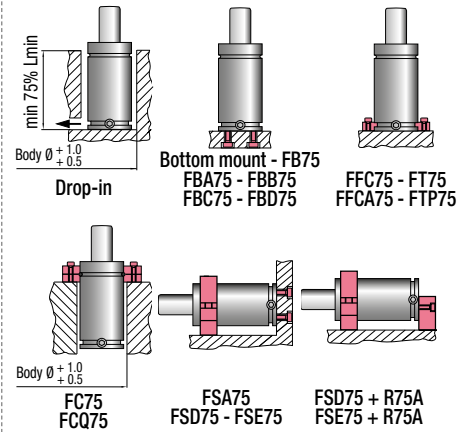
Order Callout Example:

GSSH1500-50
 GSSH1500-50-N
 GSSH1500-50-CP





Fixings



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

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

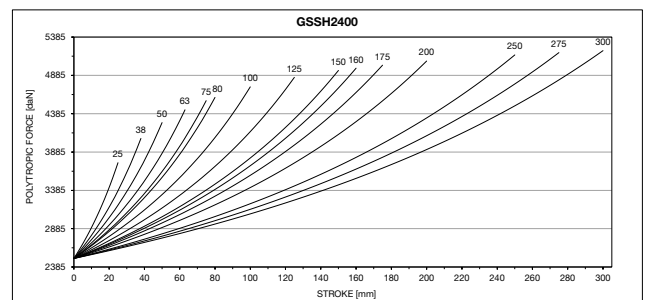
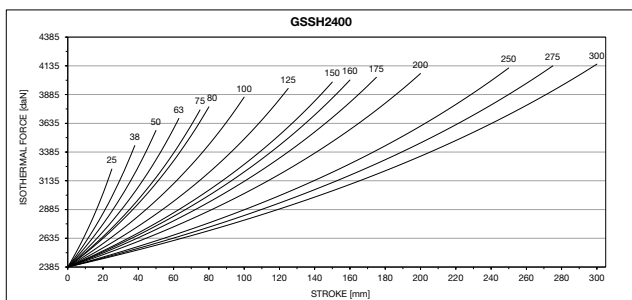
	$^{\circ}\text{F}$ 32 -176	$^{\circ}\text{C}$ 0 -80	ΔP $\pm 0.33\% / ^{\circ}\text{C}$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 15.9 cm ² 2.465 in ²	SPM ~ 15 ÷ 100 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit See Tab below
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CALLOUT	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
GSSH2400-25	25	0.98	160	6.30	135	5.31	2385	5362	3238	7279	3745	8419	176.0	10.74	3.34	7.36	✓
GSSH2400-38	38	1.50	186	7.32	148	5.83			3442	7738	4062	9132	228.0	13.91	3.55	7.83	✓
GSSH2400-50	50	1.97	210	8.27	160	6.30			3573	8032	4269	9597	276.0	16.84	3.75	8.27	✓
GSSH2400-63	63	2.48	236	9.31	173	6.81			3678	8268	4436	9973	329.0	20.07	3.96	8.73	✓
GSSH2400-75	75	2.95	260	10.24	185	7.28			3752	8435	4555	10240	377.0	23.00	4.15	9.15	✓
GSSH2400-80	80	3.15	270	10.63	190	7.48			3778	8493	4597	10334	397.0	24.22	4.23	9.33	✓
GSSH2400-100	100	3.94	310	12.20	210	8.27			3863	8684	4735	10645	478.0	29.16	4.51	9.94	✓
GSSH2400-125	125	4.92	360	14.17	235	9.25			3939	8855	4859	10923	578.0	35.26	4.91	10.82	✓
GSSH2400-150	150	5.91	410	16.14	260	10.24			3994	8979	4949	11126	679.0	41.42	5.32	11.73	✓
GSSH2400-160	160	6.30	430	16.93	270	10.63			4012	9019	4979	11193	719.0	43.86	5.49	12.10	✓
GSSH2400-175	175	6.89	460	18.11	285	11.22	4036	9073	5018	11281	779.0	47.52	5.73	12.63	✓		
GSSH2400-200	200	7.87	510	20.08	310	12.20	4068	9145	5072	11403	880.0	53.68	6.14	13.54	✓		
GSSH2400-250	250	9.84	610	24.02	360	14.17	4116	9253	5152	11582	1081.0	65.94	6.95	15.32	✓		
GSSH2400-275	275	10.83	660	25.98	385	15.16	4135	9296	5182	11650	1182.0	72.10	7.36	16.23	✓		
GSSH2400-300	300	11.81	710	27.95	410	16.14	4150	9330	5208	11707	1283.0	78.26	7.77	17.13	✓		

Order Callout Example:

GSSH2400-50
GSSH2400-50-N
GSSH2400-50-CP

Model (Cu)	Rev.	Maintenance kit
GSSH2400 (025 ÷ 080)	C	GSRK-39BMRV02400B
GSSH2400 (025 ÷ 080)	D	GSRK-39BMH02400D
GSSH2400 (100 ÷ 300)	C - D	GSRK-39BMH02400DH

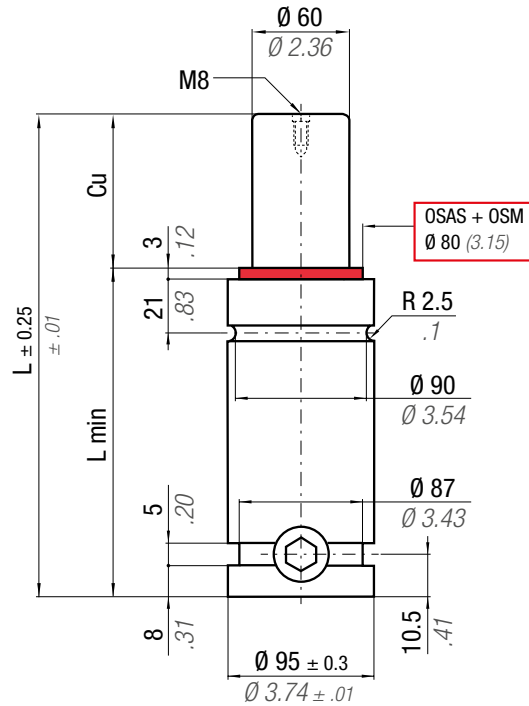
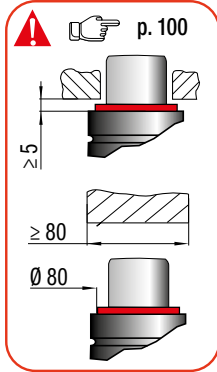
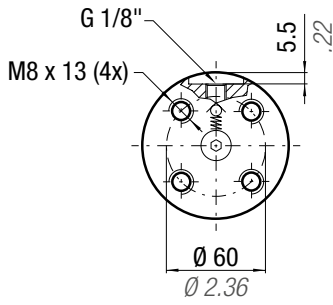


GSSH 4200

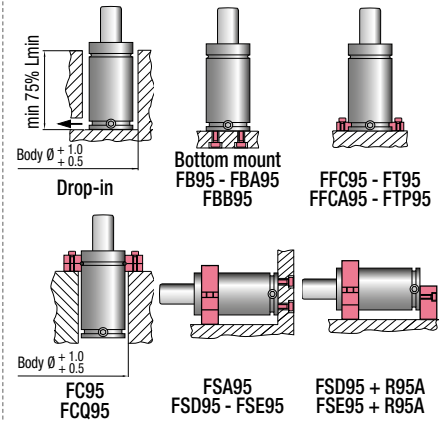
ISO 11901 - 4
39D 838 (VW)

VDI 3003 Blatt 4
075.90.65 (FCA)

B2 4008 (BMW)



Fixings



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

* F_{1i} =

Isothermal end force at 100% Cu

** F_{1p} =

Polytropic end force at 100% Cu

↗ p. 16

↘ p. 16

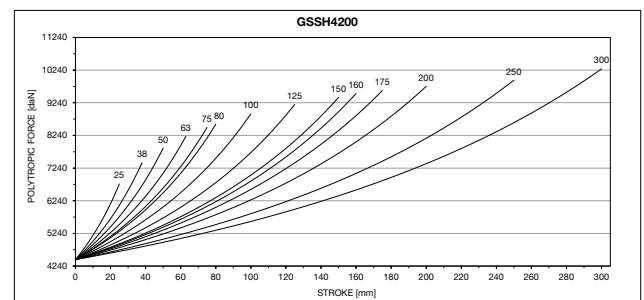
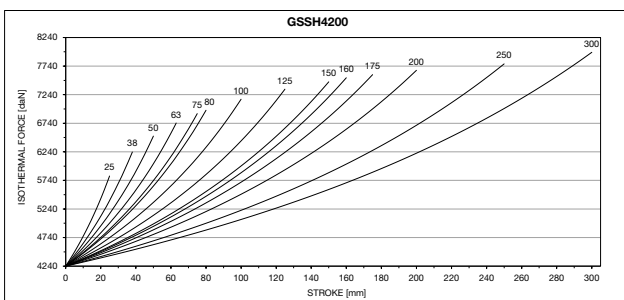
	$^{\circ}\text{F}$ 32 - 176	$^{\circ}\text{C}$ 0 - 80	ΔP $\pm 0.33\% / ^{\circ}\text{C}$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 28.27 cm ² 4.382 in ²	SPM ~ 15 ÷ 100 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit See Tab below
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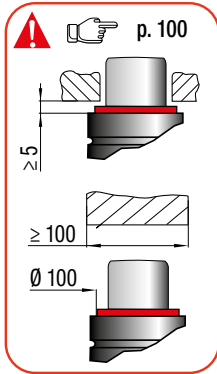
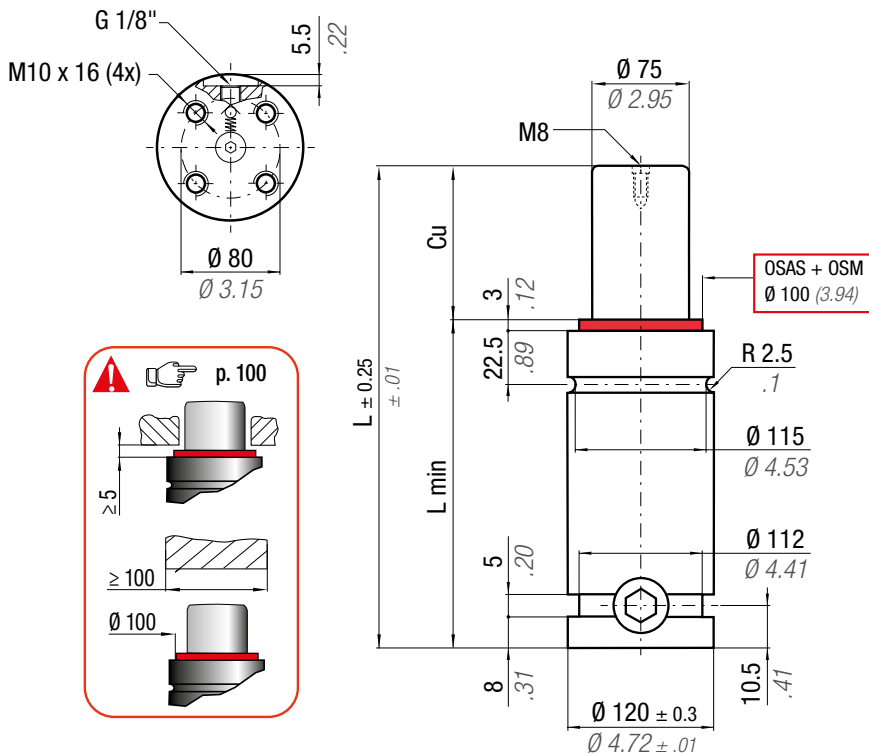
CALLOUT	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED 2014/68/EU		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³		~Kg	~lb
GSSH4200-25	25	0.98	170	6.69	145	5.71	4240 9532 ± 5% 150 bar 2175 psi + 20 °C +68 °F		5817	13077	6753	15181	303.0	18.48	5.76	12.70	✓
GSSH4200-38	38	1.50	196	7.72	158	6.22			6236	14019	7407	16652	388.0	23.67	6.12	13.49	✓
GSSH4200-50	50	1.97	220	8.66	170	6.69			6515	14646	7850	17648	467.0	28.49	6.45	14.22	✓
GSSH4200-63	63	2.48	246	9.70	183	7.20			6744	15161	8217	18473	552.0	33.67	6.80	14.99	✓
GSSH4200-75	75	2.95	270	10.63	195	7.68			6908	15530	8484	19073	631.0	38.49	7.13	15.72	✓
GSSH4200-80	80	3.15	280	11.02	200	7.87			6967	15662	8581	19291	663.0	40.44	7.27	16.03	✓
GSSH4200-100	100	3.94	320	12.60	220	8.66			7160	16097	8898	20003	794.0	48.43	7.76	17.11	✓
GSSH4200-125	125	4.92	370	14.57	245	9.65			7336	16491	9188	20656	958.0	58.44	8.45	18.63	✓
GSSH4200-150	150	5.91	420	16.54	270	10.63			7465	16781	9403	21140	1122.0	68.44	9.13	20.13	✓
GSSH4200-160	160	6.30	440	17.32	280	11.02			7507	16877	9475	21300	1187.0	72.41	9.40	20.72	✓
GSSH4200-175	175	6.89	470	18.50	295	11.61			7564	17004	9569	21512	1285.0	78.39	9.82	21.65	✓
GSSH4200-200	200	7.87	520	20.47	320	12.60			7642	17179	9701	21808	1449.0	88.39	10.50	23.15	✓
GSSH4200-250	250	9.84	620	24.41	370	14.57			7758	17440	9897	22248	1776.0	108.34	11.87	26.17	✓
GSSH4200-300	300	11.81	720	28.35	420	16.54			7839	17623	10035	22560	2104.0	128.34	13.24	29.19	✓

Order Callout Example:

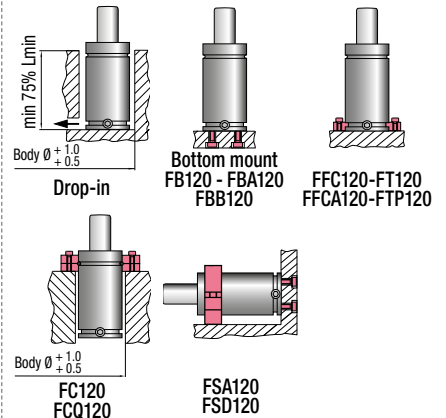
GSSH4200-50
GSSH4200-50-N
GSSH4200-50-CF

Model (Cu)	Rev.	Maintenance kit
GSSH4200 (025 ÷ 080)	C	GSRK-39BMRV04200B
GSSH4200 (025 ÷ 080)	D	GSRK-39BMH04200D
GSSH4200 (100 ÷ 300)	C - D	GSRK-39BMH04200DH





Fixings



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

* F_{i1} = Isothermal end force at 100% Cu
 ** F_{p1} = Polytropic end force at 100% Cu

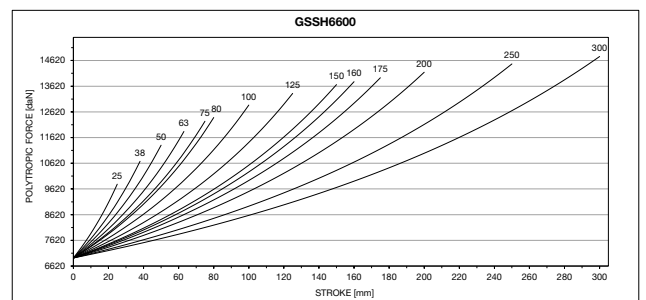
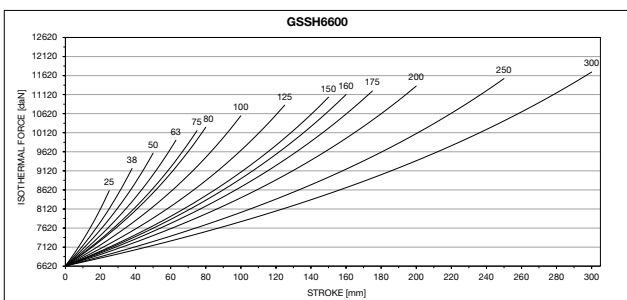
	$^{\circ}\text{F}$ 32 -176	$^{\circ}\text{C}$ 0 -80	ΔP $\pm 0.33\% / ^{\circ}\text{C}$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 44.18 cm ² 6.848 in ²	SPM ~ 15 ÷ 100 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit See Tab below
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CALLOUT	Cu		L		L min		F ₀		F _{i1} *		F _{p1} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
GSSH6600-25	25	0.98	190	7.48	165	6.50	6630 14904 ± 5%		8601	19336	9806	22045	561.0	34.22	10.35	22.82	✓
GSSH6600-38	38	1.50	216	8.50	178	7.01			9183	20644	10696	24046	700.0	42.70	10.89	24.01	✓
GSSH6600-50	50	1.97	240	9.45	190	7.48			9585	21548	11323	25455	828.0	50.51	11.37	25.07	✓
GSSH6600-63	63	2.48	266	10.47	203	7.99			9924	22310	11857	26656	967.0	58.99	11.93	26.30	✓
GSSH6600-75	75	2.95	290	11.42	215	8.46			10174	22872	12255	27550	1095.0	66.80	12.39	27.32	✓
GSSH6600-80	80	3.15	300	11.81	220	8.66			10264	23074	12400	27876	1149.0	70.09	12.60	27.78	✓
GSSH6600-100	100	3.94	340	13.39	240	9.45			10565	23751	12885	28967	1362.0	83.08	13.30	29.32	✓
GSSH6600-125	125	4.92	390	15.35	265	10.43			10844	24378	13339	29987	1629.0	99.37	14.33	31.59	✓
GSSH6600-150	150	5.91	440	17.32	290	11.42			11053	24848	13681	30756	1864.0	113.70	15.35	33.84	✓
GSSH6600-160	160	6.30	460	18.11	300	11.81			11123	25005	13975	31417	2003.0	122.18	15.75	34.72	✓
GSSH6600-175	175	6.89	490	19.29	315	12.40	11215	25212	13948	31356	2164.0	132.00	16.36	36.07	✓		
GSSH6600-200	200	7.87	540	21.26	340	13.39	11345	25505	14163	31840	2431.0	148.29	17.38	38.32	✓		
GSSH6600-250	250	9.84	640	25.20	390	15.35	11540	25943	14486	32566	2965.0	180.87	19.42	42.81	✓		
GSSH6600-300	300	11.81	740	29.13	440	17.32	11713	26332	14775	33216	3485.0	212.59	21.57	47.55	✓		

Order Callout Example:

GSSH6600-50
 GSSH6600-50-N
 GSSH6600-50-CP

Model (Cu)	Rev.	Maintenance kit
GSSH6600 (025 ÷ 080)	C	GSRK-39BMRV06600B
GSSH6600 (025 ÷ 080)	D	GSRK-39BMH06600D
GSSH6600 (100 ÷ 300)	C - D	GSRK-39BMH06600DH

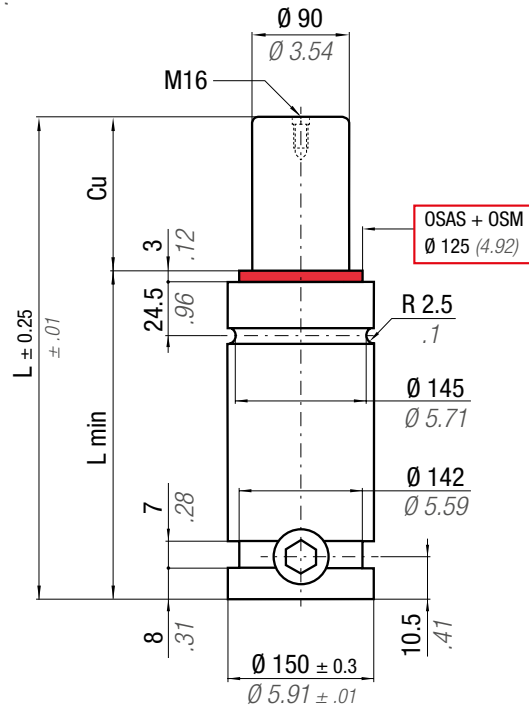
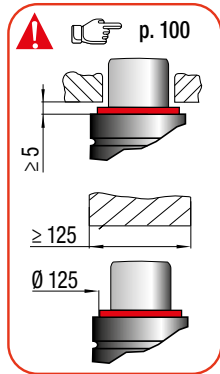
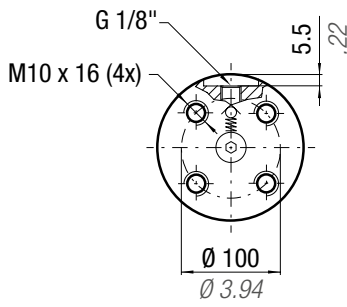


GSSH 9500

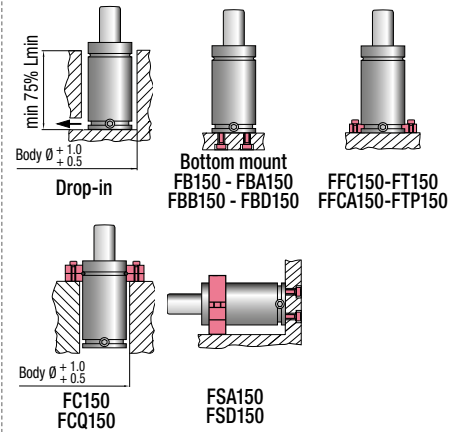
ISO 11901 - 4
39D 838 (VW)

VDI 3003 Blatt 4
075.90.65 (FCA)

B2 4008 (BMW)



Fixings



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

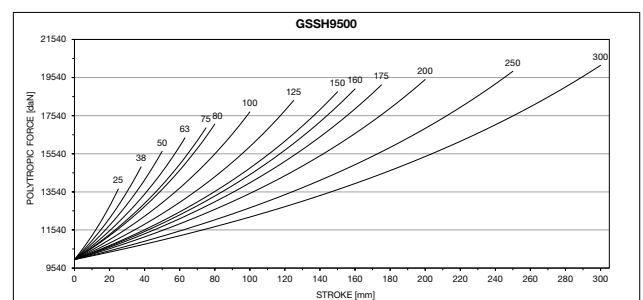
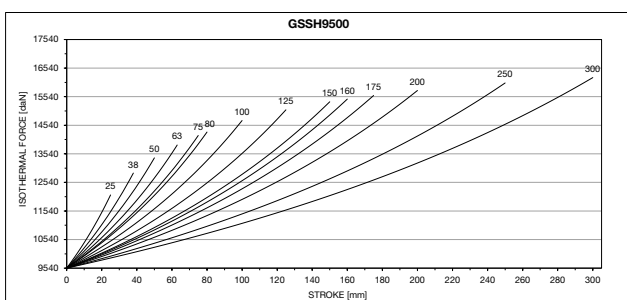
* F_{1i} = Isothermal end force at 100% Cu
 ** F_{1p} = Polytropic end force at 100% Cu

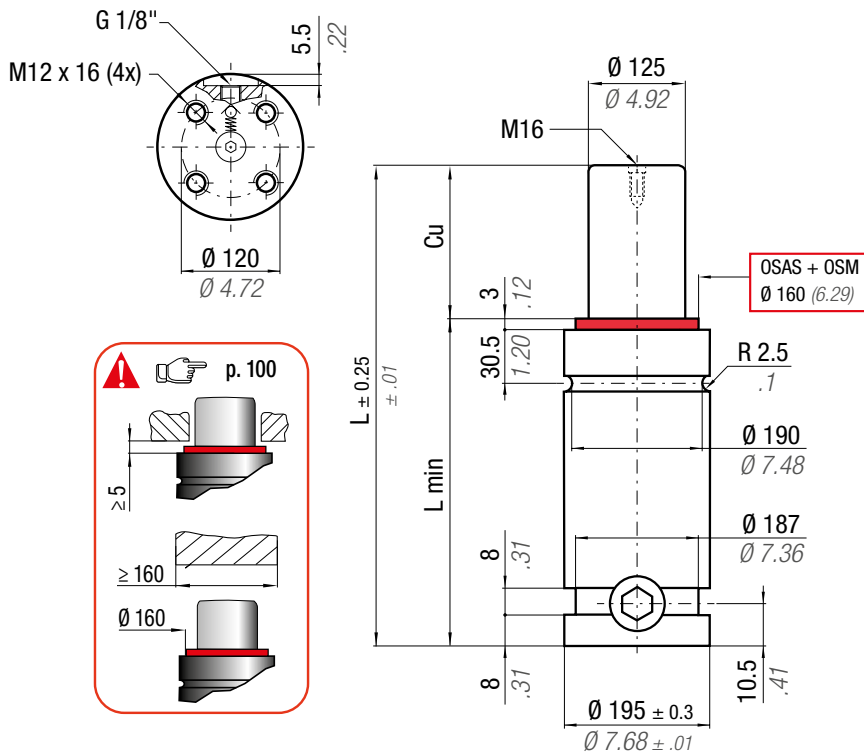
	$^{\circ}\text{F}$ 32 - 176	$^{\circ}\text{C}$ 0 - 80	ΔP $\pm 0.33\% / ^{\circ}\text{C}$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 63.62 cm ² 9.861 in ²	SPM ~ 15 ÷ 80 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit GSRK-39BMH09500C
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CALLOUT	Cu		L		L 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
GSSH9500-25	25	0.98	205	8.07	180	7.09	9540 21446 ± 5% 150 bar 2175 psi + 20 °C +68 °F		12101	27204	13691	30779	879.0	53.62	18.00	39.68	✓
GSSH9500-38	38	1.50	231	9.09	193	7.60			12866	28925	14853	33390	1089.0	66.43	18.82	41.49	✓
GSSH9500-50	50	1.97	255	10.04	205	8.07			13398	30121	15673	35235	1282.0	78.20	19.58	43.17	✓
GSSH9500-63	63	2.48	281	11.06	218	8.58			13848	31132	16376	36815	1492.0	91.01	20.41	45.00	✓
GSSH9500-75	75	2.95	305	12.01	230	9.06			14181	31881	16901	37995	1685.0	102.79	21.17	46.67	✓
GSSH9500-80	80	3.15	315	12.40	235	9.25			14302	32152	17092	38425	1766.0	107.73	21.49	47.38	✓
GSSH9500-100	100	3.94	355	13.98	255	10.04			14705	33058	17735	39869	2088.0	127.37	22.76	50.18	✓
GSSH9500-125	125	4.92	405	15.94	280	11.02			15080	33901	18337	41224	2491.0	151.95	24.35	53.68	✓
GSSH9500-150	150	5.91	455	17.91	305	12.01			15361	34534	18793	42249	2894.0	176.53	25.94	57.19	✓
GSSH9500-160	160	6.30	475	18.70	315	12.40			15455	34745	18946	42593	3055.0	186.36	26.58	58.60	✓
GSSH9500-175	175	6.89	505	19.88	330	12.99			15581	35027	19150	43052	3297.0	201.12	27.53	60.69	✓
GSSH9500-200	200	7.87	555	21.85	355	13.98			15756	35421	19437	43697	3700.0	225.70	29.12	64.20	✓
GSSH9500-250	250	9.84	655	25.79	405	15.94			16020	36014	19870	44670	4506.0	274.87	32.30	71.21	✓
GSSH9500-300	300	11.81	755	29.72	455	17.91			16208	36437	20181	45368	5312.0	324.03	35.47	78.20	✓

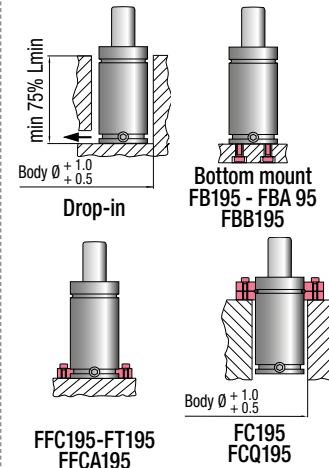
Order Callout Example:

GSSH9500-50
GSSH9500-50-N
GSSH9500-50-CP





Fixings



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

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

	32 °F 176 °C	0 °C 80 °F	ΔP ± 0.33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 122.7 cm ² 19.019 in ²	SPM ~ 10 ÷ 70 (at 20°C)	Max Speed 1.8 m/s	Maintenance kit GSRK-39BMH18500C
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CALLOUT	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
GSSH18500-25	25	0.98	210	8.27	185	7.28	18400 ± 5% 150 bar 2175 psi + 20 °C +68 °F		24062	54094	27495	61811	1522.0	92.84	31.06	68.48	✓
GSSH18500-38	38	1.50	236	9.29	198	7.80			25812	58028	30182	67852	1886.0	115.05	32.53	71.72	✓
GSSH18500-50	50	1.97	260	10.24	210	8.27			27045	60800	32111	72188	2221.0	135.48	33.89	74.71	✓
GSSH18500-63	63	2.50	286	11.30	223	8.80			28022	62996	33660	75671	2599.0	158.54	35.36	77.96	✓
GSSH18500-80	80	3.15	320	12.60	240	9.45			29171	65579	35505	79818	3060.0	186.66	37.28	82.19	✓
GSSH18500-100	100	3.94	360	14.17	260	10.24			30132	67739	37066	83328	3619.0	220.76	39.54	87.17	✓
GSSH18500-125	125	4.92	410	16.14	285	11.22			30132	67739	38544	86650	4318.0	263.40	42.37	93.41	✓
GSSH18500-160	160	6.30	480	18.90	320	12.60			31942	71808	40050	90036	5297.0	323.12	46.33	102.14	✓
GSSH18500-200	200	7.87	560	22.05	360	14.17			32675	73456	41276	92792	6415.0	391.32	50.85	112.11	✓
GSSH18500-250	250	9.84	660	25.98	410	16.14			33321	74909	42363	95236	7813.0	476.59	56.51	124.58	✓
GSSH18500-300	300	11.81	760	29.92	460	18.11			33582	75495	42805	96229	9282.0	566.20	62.16	137.04	✓

Order Callout Example:

GSSH18500-50
 GSSH18500-50-N
 GSSH18500-50-CP

