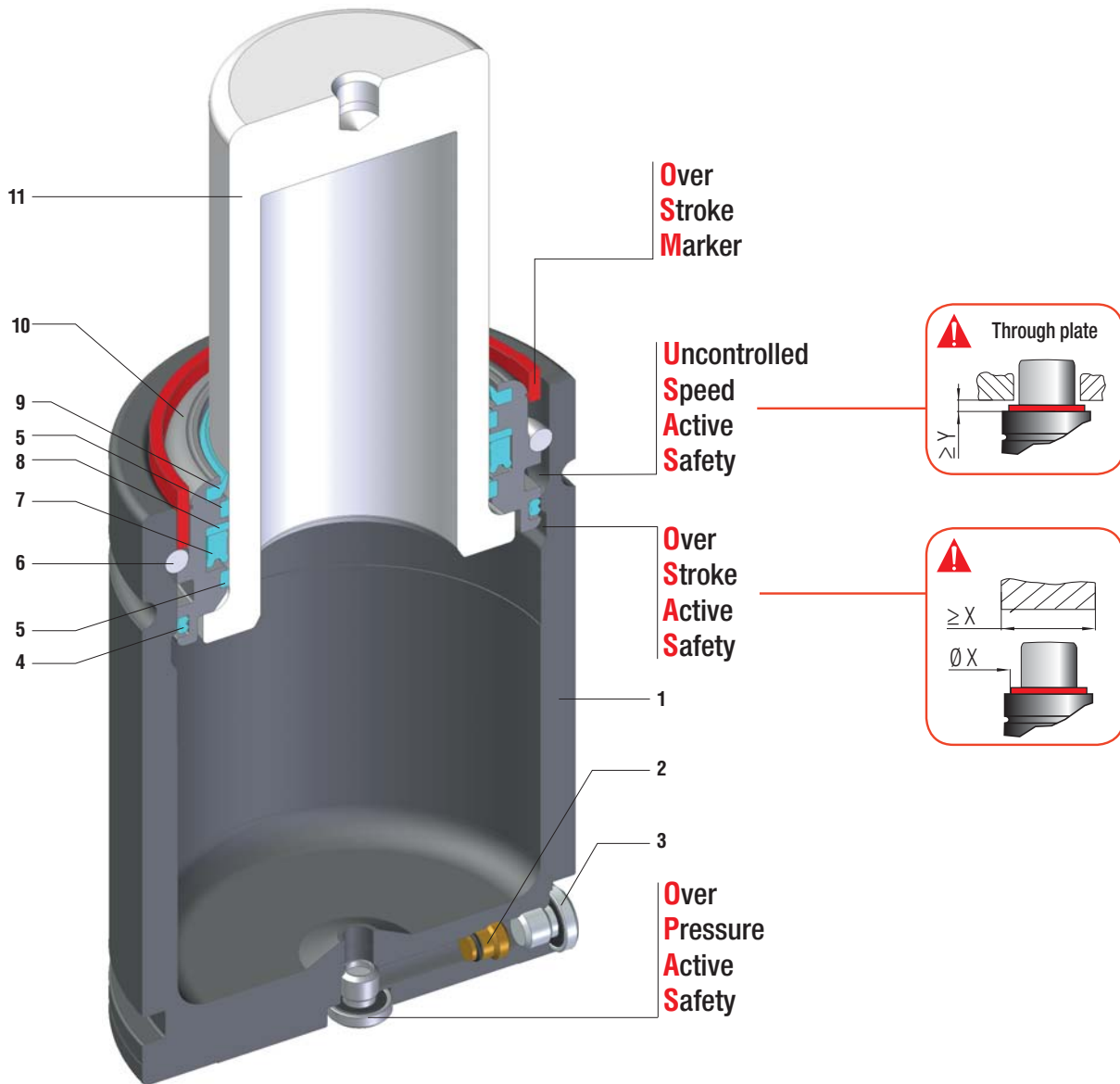


ISO	VDI	BMW	FCA
Ford	Mazda	MB	Nissan
PSA	VW		



Minima altezza, massima forza - Minimum height, maximum force - Minimale Höhe, maximale Kraft
 Hauteur minimale, force maximale - Mínima altura, máxima fuerza - Altura mínima, força máxima

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

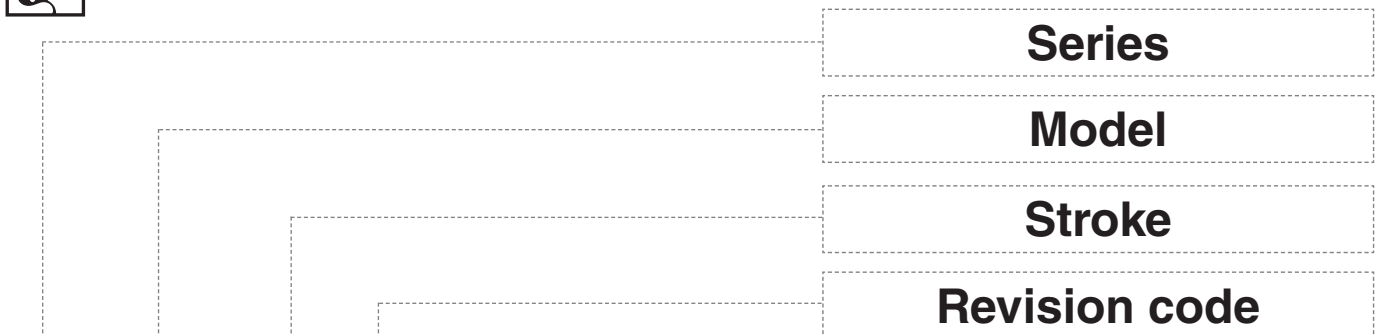
1	Body	5	Guide ring	9	Rod wiper
2	Valve	6	Retaining ring	10	Bush
3	Plug	7	Rod seal	11	Rod (nitrited superfinished)
4	Dual ring seal	8	Back-up ring		

RANGE CHART

Model	Body Ø		Stroke Cu		Initial force F0					
	mm	inch	mm	inch	daN	lb				
RV 170	19	0.75	7 - 125	0.28 - 4.92	170	382	-	-	✓	-
RV 320	25	0.98	7 - 125	0.28 - 4.92	320	719	-	-	✓	-
RV 350	32	1.26	10 - 125	0.39 - 4.92	360	809	✓	✓	✓	-
RV 500	38	1.50	10 - 125	0.39 - 4.92	470	1057	✓	✓	✓	-
RV 750	45	1.77	10 - 125	0.39 - 4.92	740	1664	✓	✓	✓	-
RV 1000	50	1.97	10 - 125	0.39 - 4.92	920	2068	✓	✓	✓	-
RV 1200	50	1.97	10 - 125	0.39 - 4.92	1060	2383	✓	✓	✓	-
RV 1500	63	2.48	10 - 125	0.39 - 4.92	1530	3440	✓	✓	✓	-
RV 2400	75	2.95	10 - 125	0.39 - 4.92	2385	5362	✓	✓	✓	-
RV 4200	95	3.74	16 - 125	0.63 - 4.92	4240	9532	✓	✓	✓	-
RV 6600	120	4.72	16 - 125	0.63 - 4.92	6630	14905	✓	✓	✓	-
RV 9500	150	5.91	19 - 125	0.75 - 4.92	9540	21447	✓	✓	✓	-
RV 12000	150	5.91	19 - 125	0.75 - 4.92	11780	26470	✓	✓	✓	-
RV 20000	195	7.68	19 - 125	0.75 - 4.92	19910	44738	✓	✓	✓	-

RV

HOW TO ORDER



RV 2400-050-A - N - E - EV

- IT** Codice cilindro autonomo
- EN** Self-contained cylinder code
- DE** Kode des eingeständigen Gdf.
- FR** Code du cylindre autonome
- ES** Código del cilindro autónomo
- PT** Código do cilindro autónomo

- IT** Collegabile con tubi, cilindro fornito scarico e senza valvola unidirezionale
- EN** Linkable with hoses, cylinder supplied without pressure and oneway valve
- DE** Anschlussfähig mit Leitungen, Gdf. geliefert ohne Druck und RückschlagVentil
- FR** Connectable avec tubes, ressort fourni sans pression ni valve unidirectionelle
- ES** Connectable con tubos, cilindro suministrado sin presión y sin válvula unidireccional
- PT** Acompláveis com tubos, cilindro fornecidos sem pressão e sem válvula unidireccional

- IT** Collegabile EASY MANIFOLD, fornito scarico + guarnizione di collegamento
- EN** Linkable EASY MANIFOLD, supplied without pressure + connecting seal
- DE** Anschlussfähig EASY MANIFOLD, geliefert ohne Druck + Verbindungsdichtung
- FR** Connectable EASY MANIFOLD, fourni sans pression + joint de connexion
- ES** Connectable EASY MANIFOLD, suministrado sin presión + junta de conexión
- PT** Acompláveis EASY MANIFOLD, fornecidos sem pressão + vedantes de conexão

ISO 11901 - 3 B8 3180 220 000 004(MB)	VDI 3003 - Blatt 3 39D 997 (VW)	B2 4005 (BMW)	075.90.60 (FCA)
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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 geliefert nur wenn der alte nicht mehr im Lager ist

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

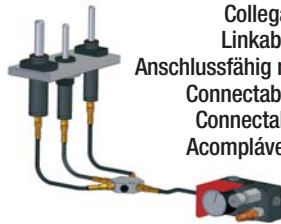
El nuevo código será suministrado sólo cuando el viejo está fuera de stock

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

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

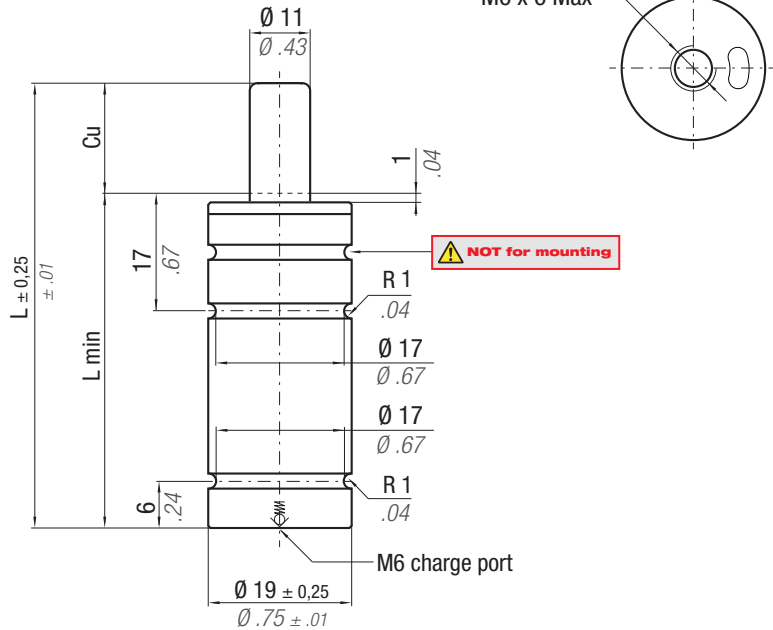


OPAS



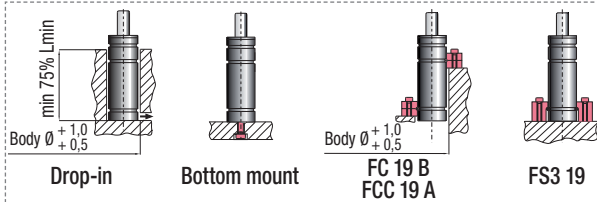
Collegabile con tubi
Linkable with hoses
Anschlussfähig mit Leitungen
Connectable avec tubes
Connectable con tubos
Acompláveis com tubos

Micro 32°



N ₂	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 0,95 cm ² 0,147 in ²	SPM ~ 40 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit Disposable
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CODE PHASING OUT from 09/2013	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
RV 170 - 007 - A	RV 170 - 007 - B	7	0.28	44	1.73	37	1.46	170 382 ± 5% 180 bar 2610psi + 20 °C +68 °F		256	576	295	663	2,0	0.12	0,06	0.13	✓
RV 170 - 010 - A	RV 170 - 010 - B	10	0.39	50	1.97	40	1.57			270	607	315	707	3,0	0.18	0,06	0.13	✓
RV 170 - 013 - A	RV 170 - 013 - B	13	0.51	56	2.20	43	1.69			279	628	328	738	4,0	0.24	0,07	0.15	✓
RV 170 - 015 - A	RV 170 - 015 - B	15	0.59	60	2.36	45	1.77			284	638	335	753	4,0	0.24	0,07	0.15	✓
RV 170 - 019 - A	RV 170 - 019 - B	19	0.75	68	2.68	49	1.93			291	654	346	777	5,0	0.31	0,07	0.16	✓
RV 170 - 025 - A	RV 170 - 025 - B	25	0.98	80	3.15	55	2.17			298	670	356	801	7,0	0.43	0,08	0.17	✓
RV 170 - 032 - A	RV 170 - 032 - B	32	1.26	94	3.7	62	2.44			304	683	365	820	8,0	0.49	0,09	0.19	✓
RV 170 - 038 - A	RV 170 - 038 - B	38	1.5	106	4.17	68	2.68			307	690	370	831	10,0	0.61	0,09	0.20	✓
RV 170 - 050 - A	RV 170 - 050 - B	50	1.97	130	5.12	80	3.15			312	700	376	846	13,0	0.79	0,11	0.23	✓
RV 170 - 063 - A	RV 170 - 063 - B	63	2.48	156	6.14	93	3.66			315	707	381	857	16,0	0.98	0,12	0.26	✓
RV 170 - 075 - A	RV 170 - 075 - B	75	2.95	185	7.28	110	4.33			304	684	366	822	19,0	1.16	0,14	0.30	✓
RV 170 - 080 - A	RV 170 - 080 - B	80	3.15	195	7.68	115	4.53			306	687	368	826	21,0	1.28	0,14	0.31	✓
RV 170 - 100 - A	RV 170 - 100 - B	100	3.94	235	9.25	135	5.31			310	696	373	840	25,0	1.55	0,16	0.36	✓
RV 170 - 125 - A	RV 170 - 125 - B	125	4.92	285	11.22	160	6.3			313	703	379	851	31,0	1.91	0,19	0.42	✓



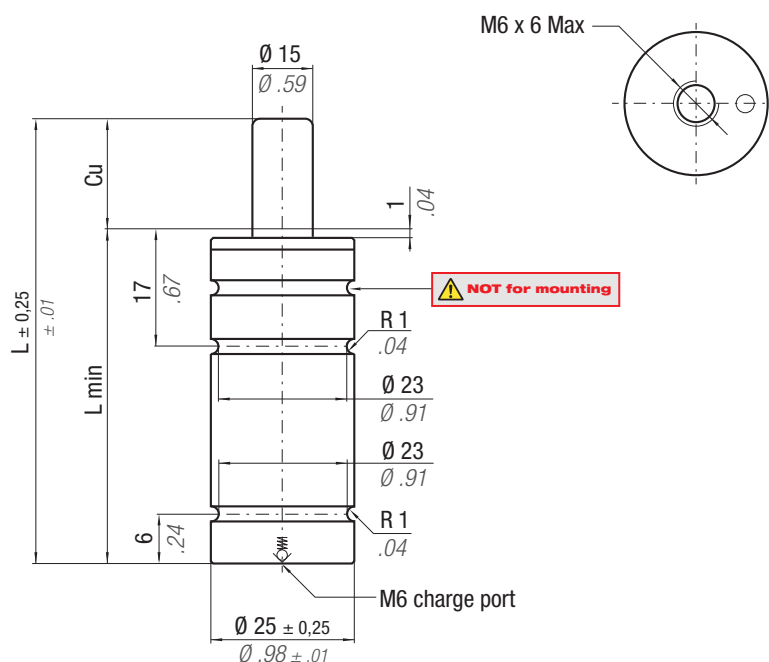
HOW TO ORDER
(10 pcs) RV 170-050-B



ACTIVE SAFETY



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 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

* $F_{1i} =$

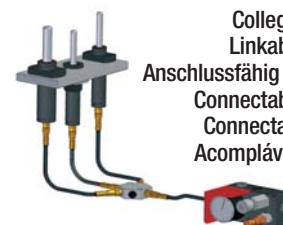
Isothermal end force at 100% Cu



p. 16

** $F_{1p} =$

Polytropic end force at 100% Cu

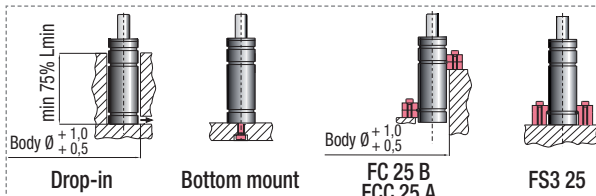


Collegabile con tubi
Linkable with hoses
Anschlussfähig mit Leitungen
Connectable avec tubes
Connectable con tubos
Acompláveis com tubos

Micro 32°

	$^{\circ}\text{F}$ 32 - 176	$^{\circ}\text{C}$ 0 - 80	ΔP $\pm 0,33\% / ^{\circ}\text{C}$	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 1,77 cm ² 0.27 in ²	SPM ~ 40 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit Disposable
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CODE PHASING OUT from 09/2013	NEW	Cu		L		L min		F0 Initial force		F _{1i} *		F _{1p} **		V0		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	✓
RV 320 - 007 - A	RV 320 - 007 - B	7	0.28	44	1.73	37	1.46	320 719 ± 5% 180 bar 2610psi + 20 °C +68 °F		465	1045	531	1194	5,0	0.31	0,10	0.22	✓
RV 320 - 010 - A	RV 320 - 010 - B	10	0.39	50	1.97	40	1.57			489	1098	566	1272	6,0	0.37	0,10	0.23	✓
RV 320 - 013 - A	RV 320 - 013 - B	13	0.51	56	2.20	43	1.69			505	1135	589	1324	8,0	0.49	0,11	0.24	✓
RV 320 - 015 - A	RV 320 - 015 - B	15	0.59	60	2.36	45	1.77			513	1154	602	1353	8,0	0.49	0,11	0.24	✓
RV 320 - 019 - A	RV 320 - 019 - B	19	0.75	68	2.68	49	1.93			526	1183	620	1394	10,0	0.61	0,12	0.26	✓
RV 320 - 025 - A	RV 320 - 025 - B	25	0.98	80	3.15	55	2.17			539	1212	640	1439	13,0	0.79	0,13	0.28	✓
RV 320 - 032 - A	RV 320 - 032 - B	32	1.26	94	3.70	62	2.44			549	1234	654	1470	16,0	0.98	0,14	0.31	✓
RV 320 - 038 - A	RV 320 - 038 - B	38	1.50	106	4.17	68	2.68			555	1248	663	1490	19,0	1.16	0,15	0.33	✓
RV 320 - 050 - A	RV 320 - 050 - B	50	1.97	130	5.12	80	3.15			563	1266	676	1520	24,0	1.46	0,17	0.37	✓
RV 320 - 063 - A	RV 320 - 063 - B	63	2.48	156	6.14	93	3.66			569	1279	684	1538	30,0	1.83	0,19	0.42	✓
RV 320 - 075 - A	RV 320 - 075 - B	75	2.95	185	7.28	110	4.33			552	1240	658	1479	38,0	2.32	0,22	0.48	✓
RV 320 - 080 - A	RV 320 - 080 - B	80	3.15	195	7.68	115	4.53			554	1245	662	1488	40,0	2.44	0,23	0.50	✓
RV 320 - 100 - A	RV 320 - 100 - B	100	3.94	235	9.25	135	5.31			561	1261	672	1511	49,0	2.99	0,26	0.57	✓
RV 320 - 125 - A	RV 320 - 125 - B	125	4.92	285	11.22	160	6.30			567	1274	681	1531	60,0	4.08	0,30	0.66	✓



HOW TO ORDER

(10 pcs) RV 320-050-B

RV 350

ISO 11901 - 3	VDI 3003 - Blatt 3	B2 4005 (BMW)	075.90.60 (FCA)
W-DX35-6204 (Ford)	B8 3180 220 000 004(MB)	39D 997 (VW)	



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

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS

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

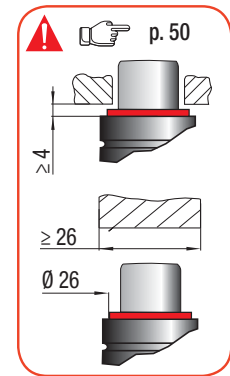
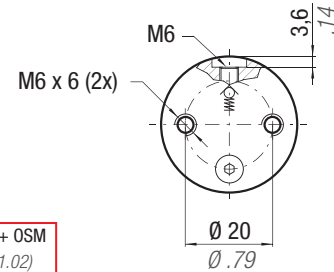
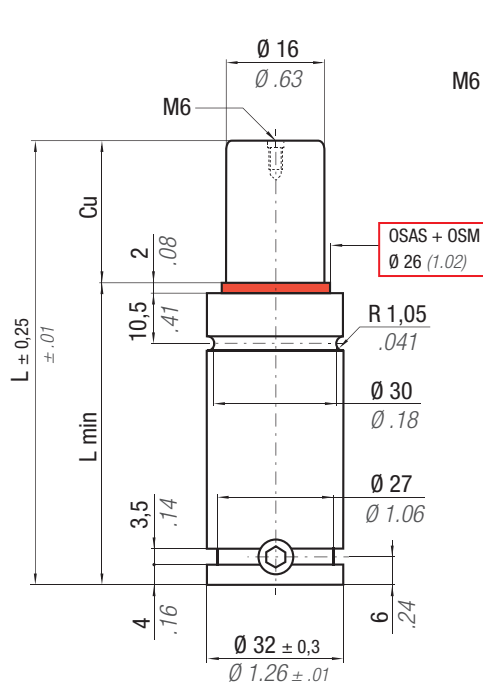
** F_{1p} = Polytropic end force at 100% Cu



USAS

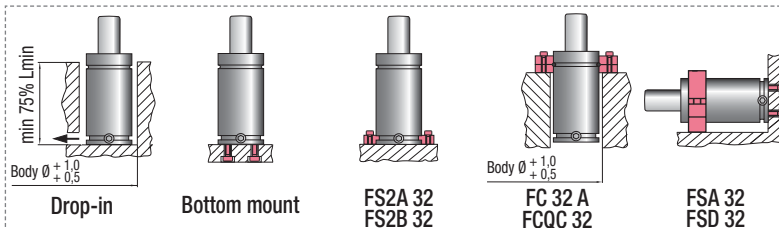


OPAS



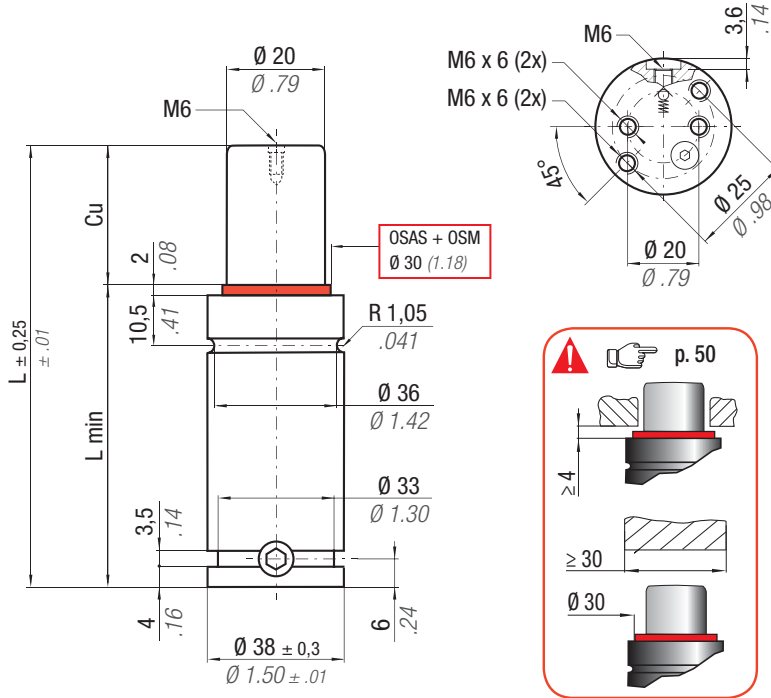
	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 2,01 cm ² 0,312 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00350C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RV 350 - 010 - A	10	0.39	50	1.97	40	1.57	360 809 ± 5%		524	1179	598	1345	8,0	0.49	0,17	0.36	✓
RV 350 - 013 - A	13	0.51	56	2.20	43	1.69			538	1209	617	1388	10,0	0.61	0,18	0.39	✓
RV 350 - 016 - A	16	0.63	62	2.44	46	1.81			547	1231	631	1419	12,0	0.73	0,19	0.41	✓
RV 350 - 019 - A	19	0.75	68	2.68	49	1.93			555	1247	642	1442	13,0	0.79	0,19	0.43	✓
RV 350 - 025 - A	25	0.98	80	3.15	55	2.17			565	1269	656	1475	17,0	1.04	0,21	0.47	✓
RV 350 - 032 - A	32	1.26	94	3.70	62	2.44			572	1286	667	1500	21,0	1.28	0,24	0.52	✓
RV 350 - 038 - A	38	1.50	106	4.17	68	2.68			577	1297	674	1515	25,0	1.53	0,26	0.56	✓
RV 350 - 050 - A	50	1.97	130	5.12	80	3.15			583	1310	683	1535	32,0	1.95	0,30	0.65	✓
RV 350 - 063 - A	63	2.48	156	6.14	93	3.66			587	1320	689	1549	40,0	2.44	0,34	0.74	✓
RV 350 - 075 - A	75	2.95	180	7.09	105	4.13			590	1326	693	1557	47,0	2.87	0,38	0.83	✓
RV 350 - 080 - A	80	3.15	190	7.48	110	4.33	591	1328	694	1560	50,0	3.05	0,39	0.86	✓		
RV 350 - 100 - A	100	3.94	230	9.06	130	5.12	593	1334	698	1569	62,0	3.78	0,46	1.01	✓		
RV 350 - 125 - A	125	4.92	280	11.02	155	6.10	595	1338	701	1576	77,0	4.70	0,54	1.18	✓		



HOW TO ORDER
 (10 pcs) RV 350-050-A
 (10 pcs) RV 350-050-A-N

ISO 11901 - 3 W-DX35-6204 (Ford) 39D 997 (VW)	VDI 3003 - Blatt 3 B8 3180 220 000 004(MB)	B2 4005 (BMW) K 32 H (Nissan)	075.90.60 (FCA) E24.54.815.G (PSA)
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OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER

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

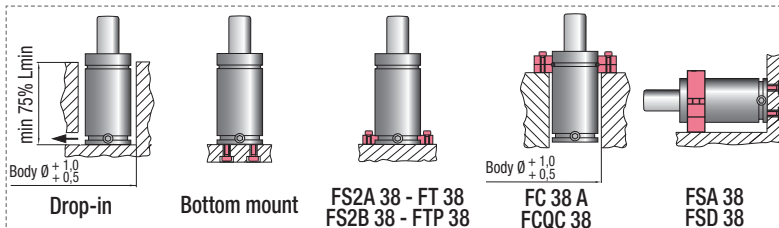


OPAS

RV

	°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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00500C
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CODE	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	
RV 500 - 010 - A	10	0.39	50	1.97	40	1.57			693	1559	824	1852	11,0	0.67	0,27	0.60	✓
RV 500 - 013 - A	13	0.51	56	2.20	43	1.69			713	1602	854	1920	14,0	0.85	0,25	0.55	✓
RV 500 - 016 - A	16	0.63	62	2.44	46	1.81			726	1633	876	1969	17,0	1.04	0,26	0.57	✓
RV 500 - 019 - A	19	0.75	68	2.68	49	1.93			736	1656	892	2005	19,0	1.16	0,28	0.62	✓
RV 500 - 025 - A	25	0.98	80	3.15	55	2.17			751	1688	916	2059	24,0	1.46	0,31	0.68	✓
RV 500 - 032 - A	32	1.26	94	3.70	62	2.44	470	1057	762	1713	933	2097	30,0	1.83	0,34	0.75	✓
RV 500 - 038 - A	38	1.50	106	4.17	68	2.68	± 5%		768	1727	944	2122	35,0	2.14	0,37	0.82	✓
RV 500 - 050 - A	50	1.97	130	5.12	80	3.15	150 bar	2175psi	777	1747	958	2154	46,0	2.81	0,43	0.95	✓
RV 500 - 063 - A	63	2.48	156	6.14	93	3.66			783	1761	968	2176	57,0	3.48	0,49	1.08	✓
RV 500 - 075 - A	75	2.95	180	7.09	105	4.13			787	1769	975	2192	67,0	4.09	0,54	1.19	✓
RV 500 - 080 - A	80	3.15	190	7.48	110	4.33	+ 20 °C	+68 °F	788	1772	977	2196	72,0	4.39	0,57	1.26	✓
RV 500 - 100 - A	100	3.94	230	9.06	130	5.12			792	1781	983	2210	89,0	5.43	0,66	1.46	✓
RV 500 - 125 - A	125	4.92	280	11.02	155	6.10			795	1788	989	2223	110,0	6.71	0,78	1.72	✓



HOW TO ORDER

(10 pcs) RV 500-050-A
 (10 pcs) RV 500-050-A-N

RV 750

ISO 11901 - 3 B8 3180 220 000 004(MB)	VDI 3003 - Blatt 3 E24.54.815.G (PSA)	B2 4005 (BMW) 39D 997 (VW)	W-DX35-6204 (Ford)
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OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS

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

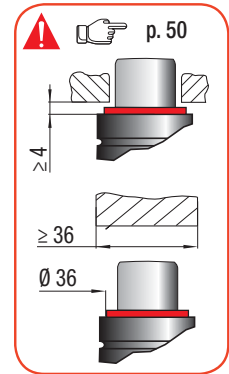
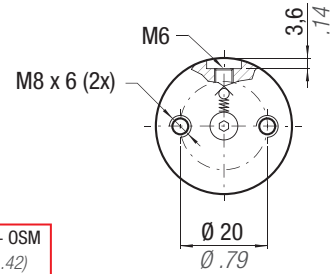
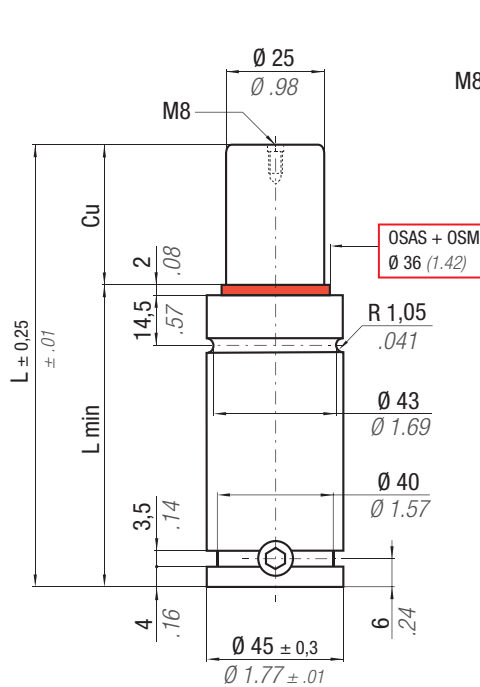
** F_{1p} = Polytropic end force at 100% Cu



USAS

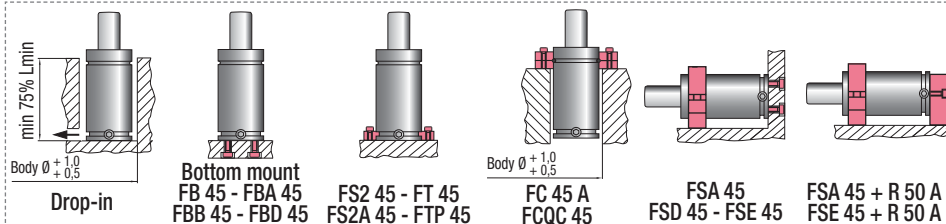


OPAS



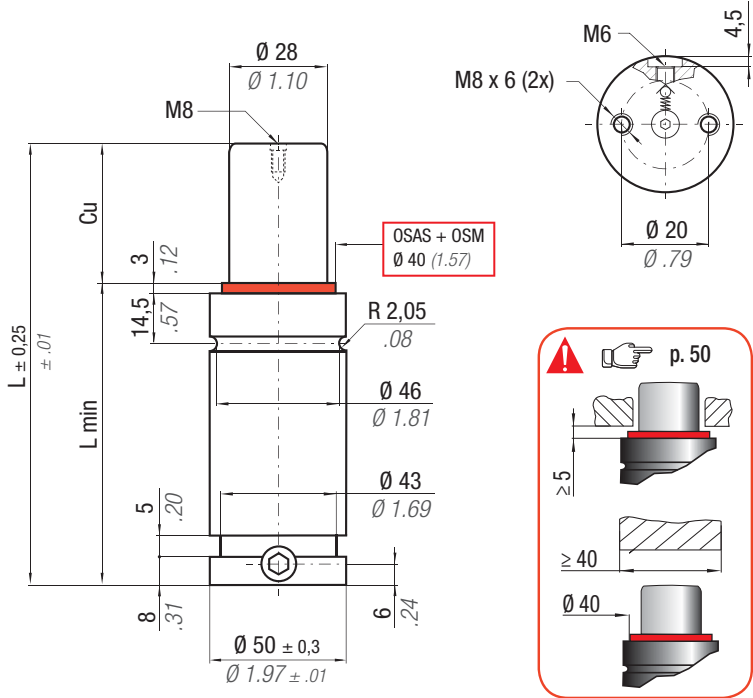
	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4,91 cm ² 0,761 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00750C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RV 750 - 010 - A	10	0.39	52	2.05	42	1.65	740 ± 5% 150 bar 2175psi + 20 °C +68 °F		1091	2452	1298	2918	18,0	1.10	0,36	0,79	✓
RV 750 - 013 - A	13	0.51	58	2.28	45	1.77			1125	2530	1354	3044	21,0	1.28	0,38	0,84	✓
RV 750 - 016 - A	16	0.63	64	2.52	48	1.89			1151	2587	1395	3136	25,0	1.53	0,40	0,88	✓
RV 750 - 019 - A	19	0.75	70	2.76	51	2.01			1170	2631	1426	3206	29,0	1.77	0,42	0,93	✓
RV 750 - 025 - A	25	0.98	82	3.23	57	2.24			1198	2694	1471	3307	37,0	2.26	0,45	0,99	✓
RV 750 - 032 - A	32	1.26	96	3.78	64	2.52			1220	2742	1506	3386	46,0	2.81	0,50	1.10	✓
RV 750 - 038 - A	38	1.50	108	4.25	70	2.76			1232	2771	1527	3433	53,0	3.23	0,54	1.19	✓
RV 750 - 050 - A	50	1.97	132	5.20	82	3.23			1250	2810	1556	3498	68,0	4.15	0,61	1.34	✓
RV 750 - 063 - A	63	2.48	158	6.22	95	3.74			1262	2838	1577	3545	85,0	5.19	0,70	1.54	✓
RV 750 - 075 - A	75	2.95	182	7.17	107	4.21			1270	2855	1590	3574	100,0	6.10	0,78	1.72	✓
RV 750 - 080 - A	80	3.15	192	7.56	112	4.41			1273	2861	1594	3583	107,0	6.53	0,81	1.79	✓
RV 750 - 100 - A	100	3.94	232	9.13	132	5.20			1281	2879	1607	3613	132,0	8.05	0,94	2.07	✓
RV 750 - 125 - A	125	4.92	282	11.10	157	6.18			1287	2894	1618	3637	164,0	10.00	1,10	2.43	✓



HOW TO ORDER
(10 pcs) RV 750-050-A
(10 pcs) RV 750-050-A-N

ISO 11901 - 3 B8 3180 220 000 004(MB)	VDI 3003 - Blatt 3 E24.54.815.G (PSA)	B2 4005 (BMW) 39D 997 (VW)	W-DX35-6204 (Ford)
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OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER



easyl MANIFOLD p. 211

ACTIVE SAFETY

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



OSAS



USAS

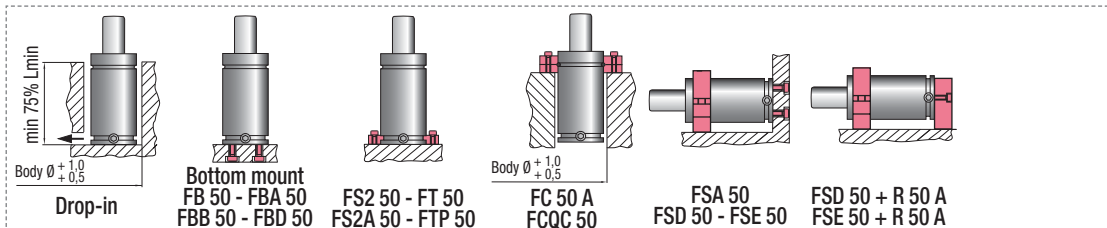


OPAS

RV

	$^{\circ}\text{F}$ 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 6,15 cm ² 0.953 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C
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CODE	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
RV 1000 - 010 - A	10	0.39	58	2.28	48	1.89	920 ± 5%	2068	1300	2923	1523	3424	25,0	1.53	0,49	1.08	✓
RV 1000 - 013 - A	13	0.51	64	2.52	51	2.01			1349	3033	1599	3595	29,0	1.77	0,51	1.12	✓
RV 1000 - 016 - A	16	0.63	70	2.76	54	2.13			1386	3117	1658	3727	34,0	2.07	0,54	1.19	✓
RV 1000 - 019 - A	19	0.75	76	2.99	57	2.24			1416	3183	1705	3833	39,0	2.38	0,56	1.23	✓
RV 1000 - 025 - A	25	0.98	88	3.46	63	2.48			1460	3282	1775	3990	48,0	2.93	0,61	1.34	✓
RV 1000 - 032 - A	32	1.26	102	4.02	70	2.76			1495	3361	1832	4118	59,0	3.60	0,67	1.48	✓
RV 1000 - 038 - A	38	1.50	114	4.49	76	2.99			1517	3410	1868	4199	69,0	4.21	0,72	1.59	✓
RV 1000 - 050 - A	50	1.97	138	5.43	88	3.46			1548	3479	1919	4314	88,0	5.37	0,81	1.79	✓
RV 1000 - 063 - A	63	2.48	164	6.46	101	3.98			1570	3528	1955	4395	108,0	6.59	0,92	2.03	✓
RV 1000 - 075 - A	75	2.95	188	7.40	113	4.45			1584	3560	1978	4447	127,0	7.75	1,01	2.23	✓
RV 1000 - 080 - A	80	3.15	198	7.80	118	4.65	1589	3571	1986	4465	135,0	8.24	1,05	2.31	✓		
RV 1000 - 100 - A	100	3.94	238	9.37	138	5.43	1603	3604	2011	4521	166,0	10.13	1,21	2.67	✓		
RV 1000 - 125 - A	125	4.92	288	11.34	163	6.42	1616	3632	2031	4566	205,0	12.51	1,41	3.11	✓		



HOW TO ORDER

(10 pcs) RV 1000-050-A
 (10 pcs) RV 1000-050-A-N



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

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS

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

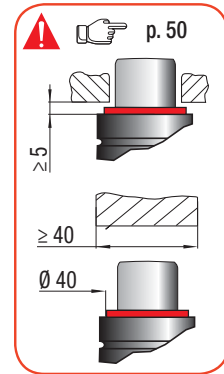
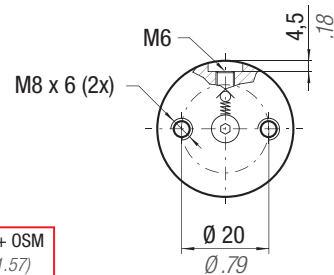
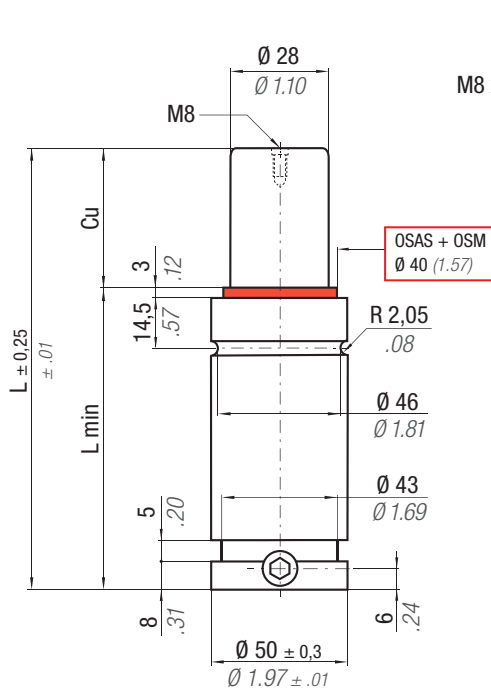
** F_{1p} = Polytrophic end force at 100% Cu p. 16



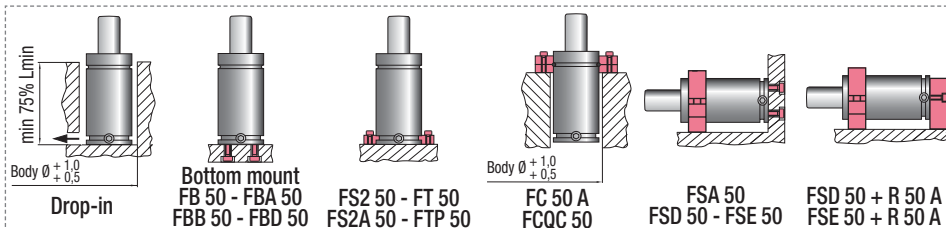
USAS



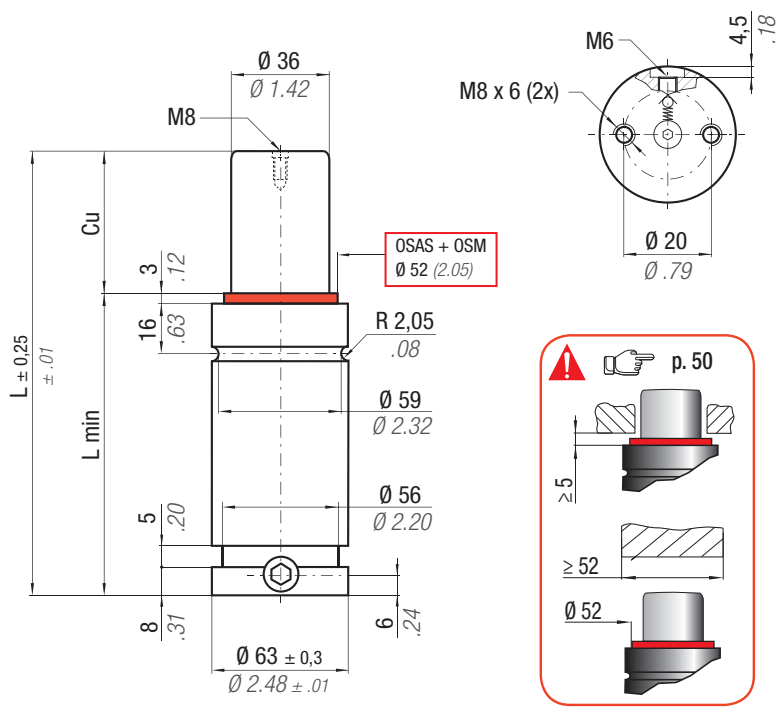
OPAS



N ₂	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 170 bar 2465 psi	P min 20 bar 290 psi	S 6,15 cm ² 0,953 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C								
CODE			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	
RV 1200 - 010 - A	10	0.39	58	2.28	48	1.89	1060 ± 5%	1494	3359	1717	3859	25,0	1.53	0,49	1.08	✓	
RV 1200 - 013 - A	13	0.51	64	2.52	51	2.01		1553	3490	1802	4052	30,0	1.83	0,51	1.12	✓	
RV 1200 - 016 - A	16	0.63	70	2.76	54	2.13		1597	3591	1869	4202	34,0	2.07	0,54	1.19	✓	
RV 1200 - 019 - A	19	0.75	76	2.99	57	2.24		1633	3671	1922	4321	39,0	2.38	0,56	1.23	✓	
RV 1200 - 025 - A	25	0.98	88	3.46	63	2.48		1685	3789	2001	4500	48,0	2.93	0,61	1.34	✓	
RV 1200 - 032 - A	32	1.26	102	4.02	70	2.76		1728	3884	2066	4644	59,0	3.60	0,67	1.48	✓	
RV 1200 - 038 - A	38	1.50	114	4.49	76	2.99		1754	3943	2106	4735	69,0	4.21	0,72	1.59	✓	
RV 1200 - 050 - A	50	1.97	138	5.43	88	3.46		1791	4026	2163	4863	88,0	5.37	0,81	1.79	✓	
RV 1200 - 063 - A	63	2.48	164	6.46	101	3.98		1817	4085	2204	4954	108,0	6.59	0,92	2.03	✓	
RV 1200 - 075 - A	75	2.95	188	7.40	113	4.45		1834	4124	2230	5013	127,0	7.75	1,01	2.23	✓	
RV 1200 - 080 - A	80	3.15	198	7.80	118	4.65		1840	4137	2239	5033	135,0	8.24	1,05	2.31	✓	
RV 1200 - 100 - A	100	3.94	238	9.37	138	5.43		1858	4177	2267	5096	166,0	10.13	1,21	2.67	✓	
RV 1200 - 125 - A	125	4.92	288	11.34	163	6.42		1873	4210	2290	5148	205,0	12.51	1,41	3.11	✓	



HOW TO ORDER
(10 pcs) RV 1200-050-A
(10 pcs) RV 1200-050-A-N



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

easu MANIFOLD p. 211

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



ACTIVE SAFETY



OSAS



USAS

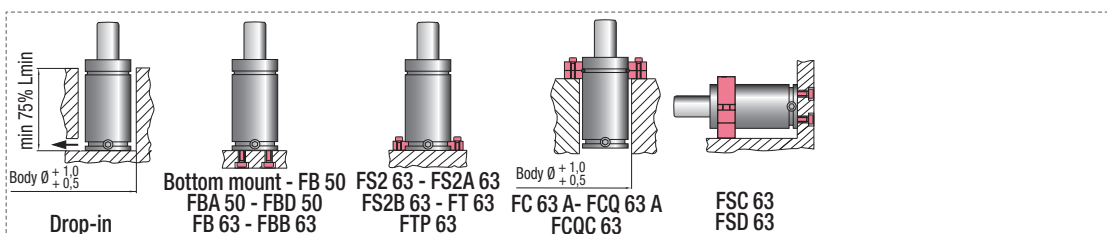


OPAS

RV

	$^{\circ}\text{F}$ 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 10,18 cm ² 1.578 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01500C
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CODE	Cu		L		L min		F ₀ Initial force		F _{1i} * End force		F _{1p} ** End force		V ₀		~Kg ~lb		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³			
RV 1500 - 010 - A	10	0.39	64	2.52	54	2.13	1530 ± 5%	3440	2074	4663	2400	5395	45,0	2.75	0,88	1.94	✓
RV 1500 - 013 - A	13	0.51	70	2.76	57	2.24			2152	4838	2521	5667	53,0	3.23	0,91	2.01	✓
RV 1500 - 016 - A	16	0.63	76	2.99	60	2.36			2213	4975	2616	5881	61,0	3.72	0,96	2.12	✓
RV 1500 - 019 - A	19	0.75	82	3.23	63	2.48			2262	5085	2693	6054	69,0	4.21	0,99	2.18	✓
RV 1500 - 025 - A	25	0.98	94	3.70	69	2.72			2336	5252	2811	6319	85,0	5.19	1,06	2.34	✓
RV 1500 - 032 - A	32	1.26	108	4.25	76	2.99			2397	5389	2908	6537	103,0	6.28	1,14	2.51	✓
RV 1500 - 038 - A	38	1.50	120	4.72	82	3.23			2435	5475	2971	6679	119,0	7.26	1,21	2.67	✓
RV 1500 - 050 - A	50	1.97	144	5.67	94	3.70			2490	5597	3059	6877	151,0	9.21	1,36	3.00	✓
RV 1500 - 063 - A	63	2.48	170	6.69	107	4.21			2529	5685	3123	7021	186,0	11.35	1,52	3.35	✓
RV 1500 - 075 - A	75	2.95	194	7.64	119	4.69			2555	5743	3165	7115	217,0	13.24	1,66	3.66	✓
RV 1500 - 080 - A	80	3.15	204	8.03	124	4.88	2563	5763	3180	7149	231,0	14.09	1,72	3.79	✓		
RV 1500 - 100 - A	100	3.94	244	9.61	144	5.67	2590	5824	3224	7248	284,0	17.32	1,95	4.30	✓		
RV 1500 - 125 - A	125	4.92	294	11.57	169	6.65	2613	5875	3262	7333	350,0	21.36	2,24	4.94	✓		



HOW TO ORDER

(10 pcs) RV 1500-050-A
 (10 pcs) RV 1500-050-A-N

RV 2400

ISO 11901 - 3 B8 3180 220 000 004(MB)	VDI 3003 - Blatt 3 E24.54.815.G (PSA)	B2 4005 (BMW) 39D 997 (VW)	W-DX35-6204 (Ford)
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OSAS + OSM = OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS



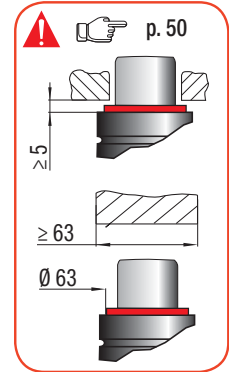
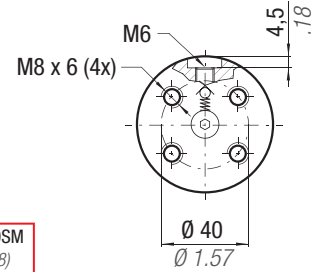
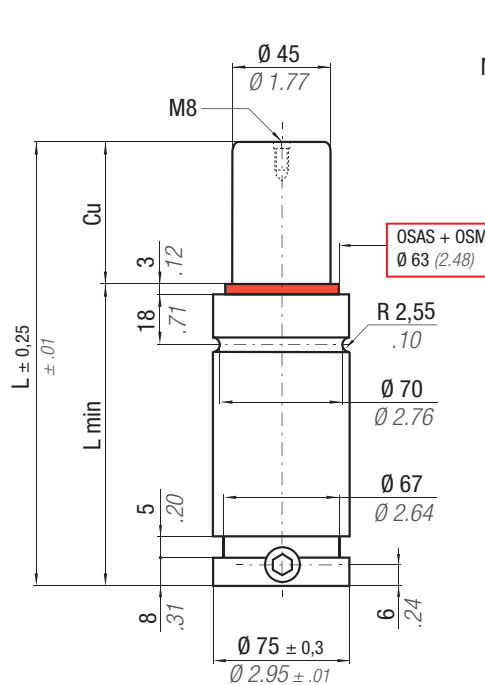
USAS



OPAS

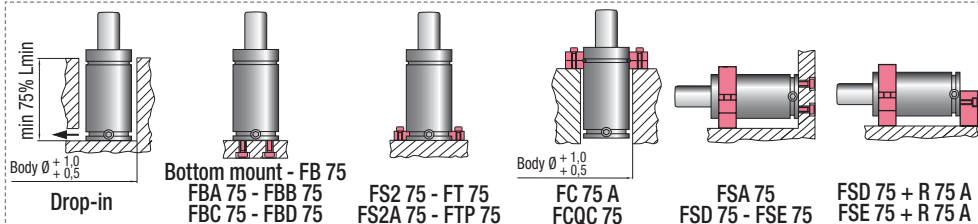
* F_{1i} = Isothermal end force at 100% Cu p. 16

** F_{1p} = Polytrophic 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 15,90 cm ² 2.465 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV02400C
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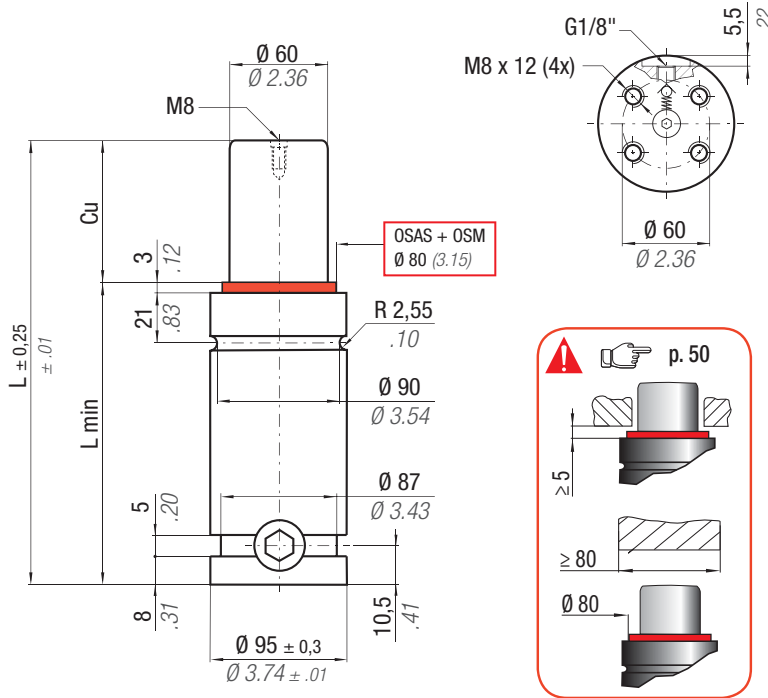
CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RV 2400 - 010 - A	10	0.39	65	2.56	55	2.17	2385 ± 5%	5362	3264	7338	3786	8511	69,0	4.21	1,25	2.76	✓
RV 2400 - 013 - A	13	0.51	71	2.80	58	2.28			3392	7626	3984	8956	81,0	4.94	1,30	2.87	✓
RV 2400 - 016 - A	16	0.63	77	3.03	61	2.40			3493	7852	4142	9312	93,0	5.67	1,35	2.98	✓
RV 2400 - 019 - A	19	0.75	83	3.27	64	2.52			3574	8035	4271	9602	105,0	6.41	1,40	3.09	✓
RV 2400 - 025 - A	25	0.98	95	3.74	70	2.76			3698	8313	4468	10044	129,0	7.87	1,50	3.31	✓
RV 2400 - 032 - A	32	1.26	109	4.29	77	3.03			3800	8542	4632	10413	157,0	9.58	1,61	3.55	✓
RV 2400 - 038 - A	38	1.50	121	4.76	83	3.27			3864	8687	4737	10649	181,0	11.04	1,70	3.75	✓
RV 2400 - 050 - A	50	1.97	145	5.71	95	3.74			3956	8893	4887	10986	230,0	14.03	1,89	4.17	✓
RV 2400 - 063 - A	63	2.48	171	6.73	108	4.25			4022	9042	4996	11231	282,0	17.20	2,10	4.63	✓
RV 2400 - 075 - A	75	2.95	195	7.68	120	4.72			4066	9140	5068	11393	330,0	20.13	2,29	5.05	✓
RV 2400 - 080 - A	80	3.15	205	8.07	125	4.92	4081	9174	5093	11450	350,0	21.35	2,37	5.22	✓		
RV 2400 - 100 - A	100	3.94	245	9.65	145	5.71	4127	9278	5169	11620	431,0	26.29	2,68	5.91	✓		
RV 2400 - 125 - A	125	4.92	295	11.61	170	6.69	4166	9365	5234	11767	532,0	32.45	3,07	6.77	✓		



HOW TO ORDER

(10 pcs) RV 2400-050-A
(10 pcs) RV 2400-050-A-N

ISO 11901 - 3	VDI 3003 - Blatt 3	B2 4005 (BMW)	075.90.60 (FCA)
W-DX35-6204 (Ford)	PG 24D (Mazda)	B8 3180 220 000 004(MB)	E24.54.815.G (PSA)
39D 997 (VW)			



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



easyl MANIFOLD p. 211

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

ACTIVE SAFETY



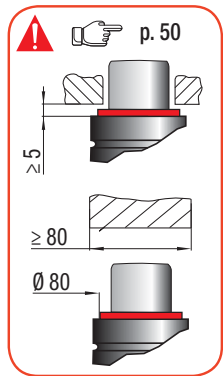
OSAS



USAS

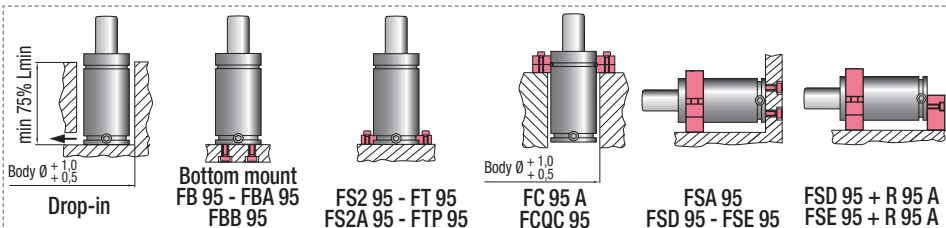


OPAS



	°F 32 - 176	°C 0 - 80	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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV04200C
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CODE	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		
RV 4200 - 016 - A	16	0.63	90	3.54	74	2.91	4240 ± 5% 9532		6080	13669	7162	16101	173,0	10.55	2,76	6.08	✓	
RV 4200 - 019 - A	19	0.75	96	3.78	77	3.03			6246	14041	7421	16683	193,0	11.77	2,84	6.26	✓	
RV 4200 - 025 - A	25	0.98	108	4.25	83	3.27			6506	14626	7834	17612	234,0	14.27	2,99	6.59	✓	
RV 4200 - 032 - A	32	1.26	122	4.80	90	3.54			6729	15128	8194	18421	281,0	17.14	3,16	6.97	✓	
RV 4200 - 038 - A	38	1.50	134	5.28	96	3.78			6876	15458	8432	18956	322,0	19.64	3,31	7.30	✓	
RV 4200 - 050 - A	50	1.97	158	6.22	108	4.25			150 bar 2175 psi	7091	15940	8783	19745	403,0	24.58	3,61	7.96	✓
RV 4200 - 063 - A	63	2.48	184	7.24	121	4.76			7251	16301	9048	20341	491,0	29.95	3,94	8.69	✓	
RV 4200 - 075 - A	75	2.95	208	8.19	133	5.24			7359	16543	9227	20743	572,0	34.89	4,24	9.35	✓	
RV 4200 - 080 - A	80	3.15	218	8.58	138	5.43			+ 20 °C +68 °F	7396	16626	9288	20880	606,0	36.97	4,36	9.61	✓
RV 4200 - 100 - A	100	3.94	258	10.16	158	6.22			7512	16888	9483	21319	741,0	45.20	4,86	10.71	✓	
RV 4200 - 125 - A	125	4.92	308	12.13	183	7.20	7612	17113	9651	21696	910,0	55.51	5,48	12.08	✓			



HOW TO ORDER

(10 pcs) RV 4200-050-A
 (10 pcs) RV 4200-050-A-N

RV 6600

ISO 11901 - 3	VDI 3003 - Blatt 3	B2 4005 (BMW)	075.90.60 (FCA)
W-DX35-6204 (Ford)	B8 3180 220 000 004(MB)	39D 997 (VW)	



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

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS

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

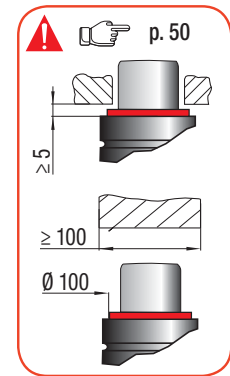
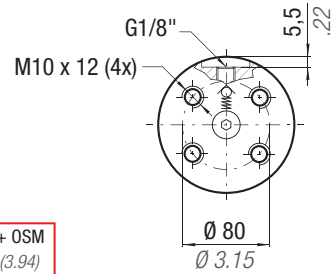
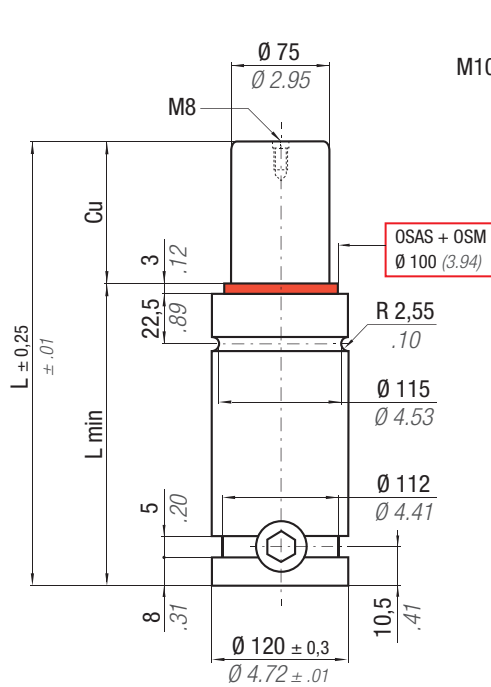
** F_{1p} = Polytrophic end force at 100% Cu



USAS

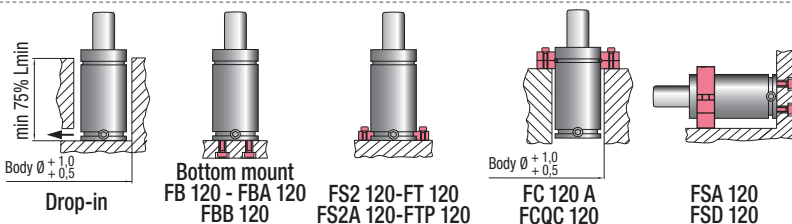


OPAS



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 44,18 cm ² 6.848 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV06600C
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CODE	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
RV 6600 - 016 - A	16	0.63	100	3.94	84	3.31	6630 ± 5%	14904	9125	20515	10607	23845	300,0	18.30	5,12	11.29	✓
RV 6600 - 019 - A	19	0.75	106	4.17	87	3.43			9376	21077	10995	24718	332,0	20.25	5,23	11.53	✓
RV 6600 - 025 - A	25	0.98	118	4.65	93	3.66			9779	21985	11628	26141	396,0	24.16	5,47	12.06	✓
RV 6600 - 032 - A	32	1.26	132	5.20	100	3.94			10136	22787	12195	27415	471,0	28.73	5,75	12.68	✓
RV 6600 - 038 - A	38	1.50	144	5.67	106	4.17			10375	23325	12578	28276	535,0	32.64	5,99	13.21	✓
RV 6600 - 050 - A	50	1.97	168	6.61	118	4.65			10733	24129	13157	29578	663,0	40.44	6,47	14.26	✓
RV 6600 - 063 - A	63	2.48	194	7.64	131	5.16			11006	24743	13604	30583	801,0	48.86	6,99	15.41	✓
RV 6600 - 075 - A	75	2.95	218	8.58	143	5.63			11193	25163	13911	31273	930,0	56.73	7,47	16.47	✓
RV 6600 - 080 - A	80	3.15	228	8.98	148	5.83			11258	25308	14018	31514	983,0	59.96	7,67	16.91	✓
RV 6600 - 100 - A	100	3.94	268	10.55	168	6.61			11463	25771	14359	32280	1197,0	73.02	8,46	18.65	✓
RV 6600 - 125 - A	125	4.92	318	12.52	193	7.60	11642	26171	14656	32948	1464,0	89.30	9,46	20.86	✓		

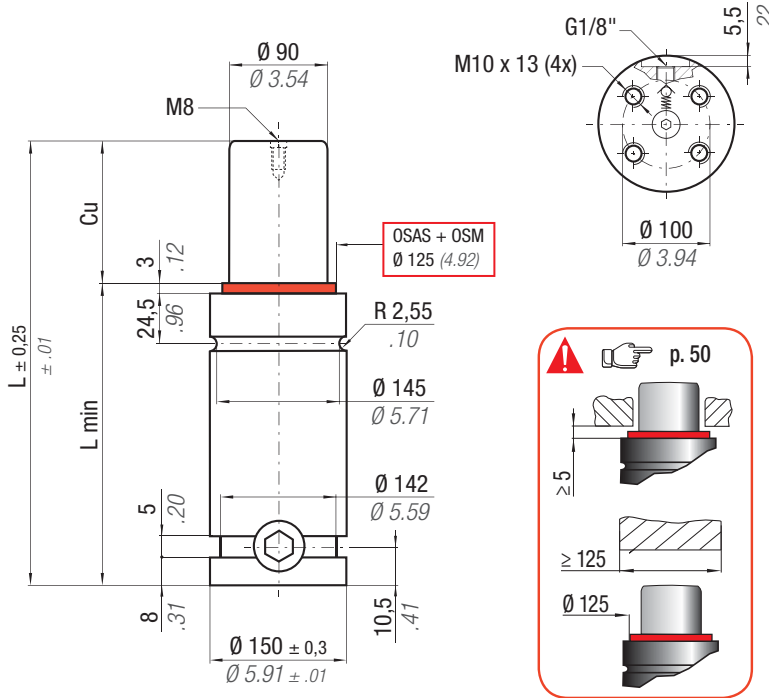


HOW TO ORDER

(10 pcs) RV 6600-050-A
(10 pcs) RV 6600-050-A-N

ISO 11901 - 3	VDI 3003 - Blatt 3	B2 4005 (BMW)	075.90.60 (FCA)
W-DX35-6204 (Ford)	PG 24D (Mazda)	B8 3180 220 000 004(MB)	39D 997 (VW)

RV 9500



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



easu MANIFOLD p. 211

ACTIVE SAFETY

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



OSAS



USAS

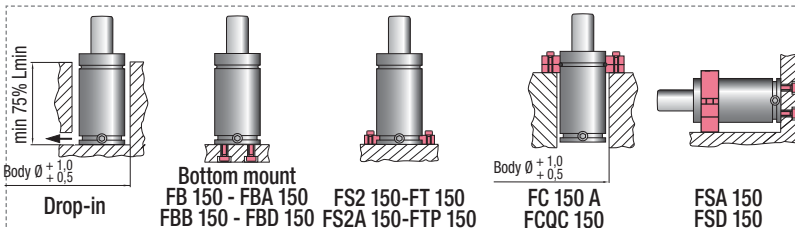


OPAS

RV

	$^{\circ}\text{F}$ 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 9.864 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV09500C
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CODE	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	
RV 9500 - 019 - A	19	0.75	116	4.57	97	3.82	9540 ± 5% 150 bar 2175 psi + 20 °C +68 °F	21446	13101	29453	15214	34202	517,0	31.54	9,56	21.08	✓
RV 9500 - 025 - A	25	0.98	128	5.04	103	4.06			13637	30656	16044	36068	614,0	37.45	9,93	21.89	✓
RV 9500 - 032 - A	32	1.26	142	5.59	110	4.33			14112	31726	16792	37750	727,0	44.35	10,37	22.86	✓
RV 9500 - 038 - A	38	1.50	154	6.06	116	4.57			14432	32445	17299	38890	823,0	50.20	10,74	23.68	✓
RV 9500 - 050 - A	50	1.97	178	7.01	128	5.04			14914	33528	18070	40623	1017,0	62.04	11,49	25.33	✓
RV 9500 - 063 - A	63	2.48	204	8.03	141	5.55			15283	34358	18666	41963	1226,0	74.79	12,30	27.12	✓
RV 9500 - 075 - A	75	2.95	228	8.98	153	6.02			15536	34927	19078	42889	1420,0	86.62	13,05	28.77	✓
RV 9500 - 080 - A	80	3.15	238	9.37	158	6.22			15625	35125	19222	43213	1500,0	91.50	13,37	29.48	✓
RV 9500 - 100 - A	100	3.94	278	10.94	178	7.01			15905	35756	19681	44245	1823,0	111.20	14,61	32.21	✓
RV 9500 - 125 - A	125	4.92	328	12.91	203	7.99			16148	36303	20082	45146	2226,0	135.79	16,18	35.67	✓



HOW TO ORDER

(10 pcs) RV 9500-050-A
 (10 pcs) RV 9500-050-A-N



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

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS

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

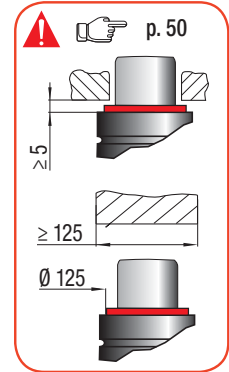
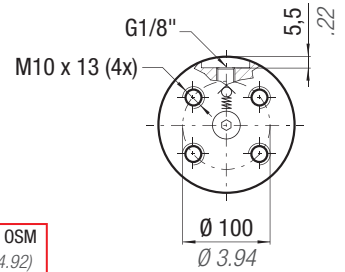
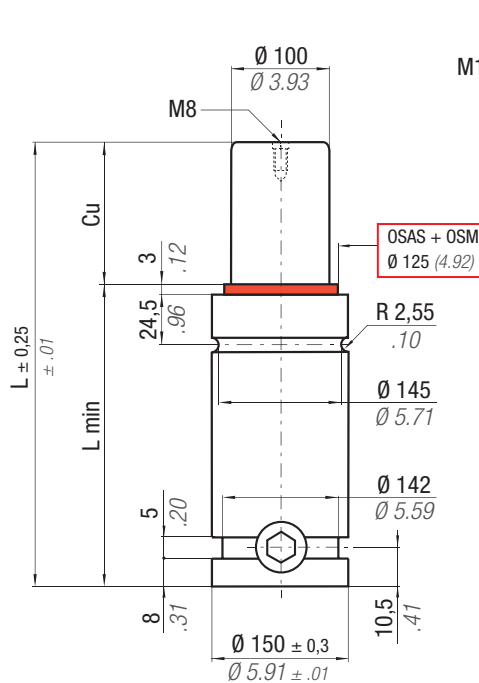
** F_{1p} = Polytropic end force at 100% Cu p. 16



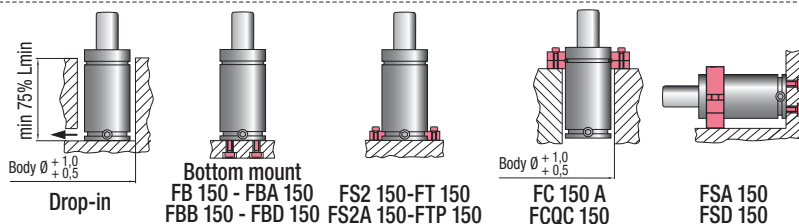
USAS



OPAS

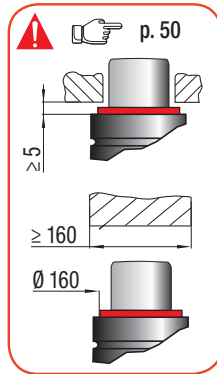
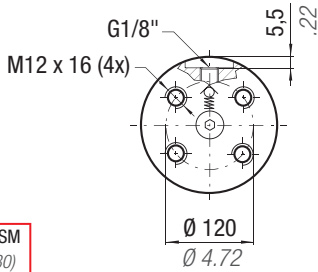
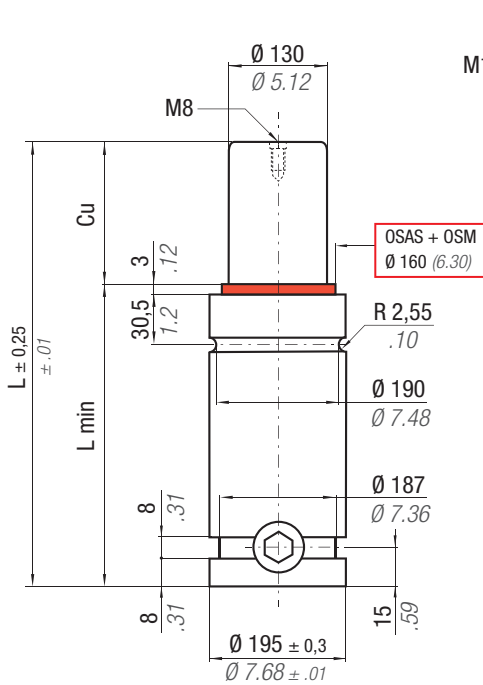


CODE	N ₂	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 78,54 cm ² 12.173 in ²	SPM ~ 20 - 80 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV12000A	Vo		PED												
											cm ³	in ³	~Kg	~lb	2014/68/EU										
RV 12000 - 019 - A											19	0.75	116	4.57	97	3.82	16891	37973	19896	44728	571,0	34.83	9,34	20.59	✓
RV 12000 - 025 - A											25	0.98	128	5.04	103	4.06	17735	39870	21225	47716	675,0	41.18	9,73	21.45	✓
RV 12000 - 032 - A											32	1.26	142	5.59	110	4.33	18503	41596	22454	50479	796,0	48.56	10,18	22.44	✓
RV 12000 - 038 - A											38	1.50	154	6.06	116	4.57	19030	42780	23307	52396	900,0	54.90	10,57	23.30	✓
RV 12000 - 050 - A											50	1.97	178	7.01	128	5.04	19837	44596	24629	55368	1108,0	67.59	11,35	25.02	✓
RV 12000 - 063 - A											63	2.48	204	8.03	141	5.55	20469	46016	25676	57722	1332,0	81.25	12,20	26.90	✓
RV 12000 - 075 - A											75	2.95	228	8.98	153	6.02	20909	47006	26412	59377	1540,0	93.94	12,97	28.59	✓
RV 12000 - 080 - A											80	3.15	238	9.37	158	6.22	21063	47353	26671	59959	1626,0	99.19	13,30	29.32	✓
RV 12000 - 100 - A											100	3.94	278	10.94	178	7.01	21559	48467	27507	61838	1972,0	120.29	14,60	32.19	✓
RV 12000 - 125 - A											125	4.92	328	12.91	203	7.99	21995	49447	28249	63506	2405,0	146.71	16,22	35.76	✓



HOW TO ORDER

(10 pcs) RV 12000-050-A
(10 pcs) RV 12000-050-A-N



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



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

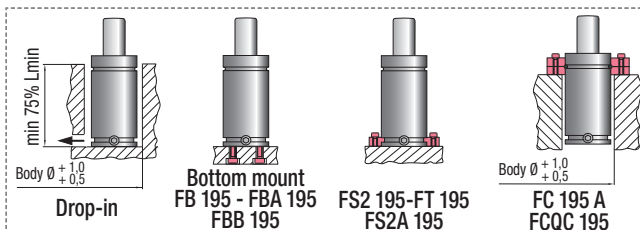


OPAS

RV

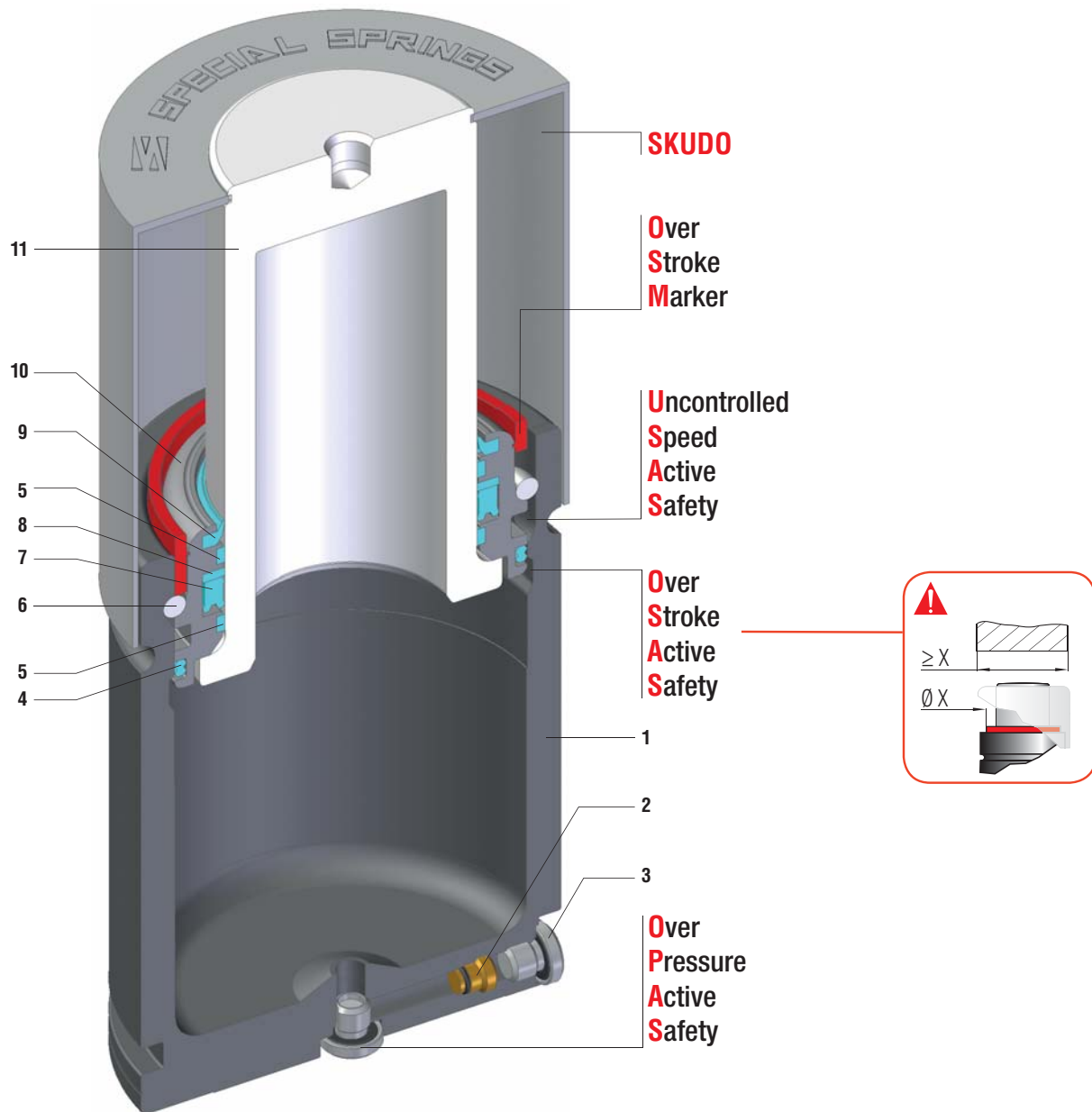
	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 132,73 cm ² 20.573 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV20000A
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CODE	Cu		L		L min		F ₀ Initial force		F _{1i} * End force		F _{1p} ** 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	
RV 20000 - 019 - A	19	0.75	148	5.83	129	5.08	19910 ± 5% 150 bar 2175 psi + 20 °C +68 °F	44738	26987	60669	31207	70156	1118,0	68.20	21,58	47.58	✓
RV 20000 - 025 - A	25	0.98	160	6.30	135	5.32			28383	63807	33368	75014	1288,0	78.57	22,29	49.14	✓
RV 20000 - 032 - A	32	1.26	174	6.85	142	5.59			29722	66817	35474	79749	1486,0	90.65	23,12	50.97	✓
RV 20000 - 038 - A	38	1.50	186	7.32	148	5.83			30681	68973	37002	83184	1656,0	101.02	23,84	52.56	✓
RV 20000 - 050 - A	50	1.97	210	8.27	160	6.30			32220	72433	39486	88768	1995,0	121.70	25,26	55.69	✓
RV 20000 - 063 - A	63	2.48	236	9.29	173	6.81			33486	75280	41560	93431	2362,0	144.08	26,80	59.08	✓
RV 20000 - 075 - A	75	2.95	260	10.24	185	7.28			34403	77341	43077	96841	2702,0	164.82	28,22	62.21	✓
RV 20000 - 080 - A	80	3.15	270	10.63	190	7.48			34731	78079	43624	98071	2843,0	173.42	28,81	63.52	✓
RV 20000 - 100 - A	100	3.94	310	12.21	210	8.27			35811	80506	45434	102140	3409,0	207.95	31,19	68.76	✓
RV 20000 - 125 - A	125	4.92	360	14.17	235	9.25			36794	82716	47097	105878	4116,0	251.08	34,16	75.31	✓



HOW TO ORDER

(10 pcs) RV 20000-050-A
 (10 pcs) RV 20000-050-A-N



Minima altezza, massima forza + SKUDO - Minimum height, maximum force + SKUDO - Minimale Höhe, maximale Kraft + SKUDO
 Hauteur minimale, force maximale + SKUDO - Mínima altura, máxima fuerza + SKUDO - Altura mínima, força máxima + SKUDO

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

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

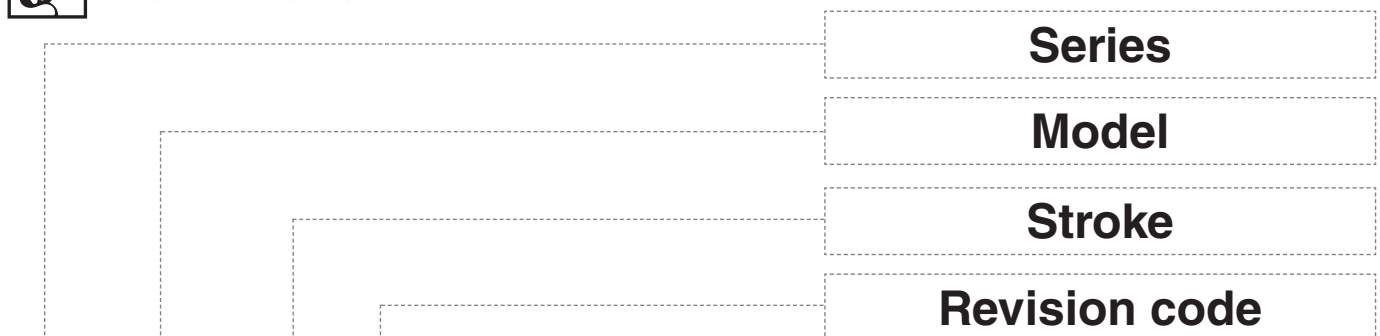
RANGE CHART

Model	Body Ø		Stroke Cu		Initial force F0					
	mm	inch	mm	inch	daN	lb				
RS 170	19	0.75	7 - 122	0.28 - 4.80	170	382	-	-	✓	✓
RS 320	25	0.98	7 - 122	0.28 - 4.80	320	719	-	-	✓	✓
RS 350	32	1.26	7 - 122	0.28 - 4.80	360	809	✓	✓	✓	✓
RS 500	38	1.50	7 - 122	0.28 - 4.80	470	1057	✓	✓	✓	✓
RS 750	45	1.77	7 - 122	0.28 - 4.80	740	1664	✓	✓	✓	✓
RS 1000	50	1.97	10 - 122	0.39 - 4.80	920	2068	✓	✓	✓	✓
RS 1200	50	1.97	10 - 122	0.39 - 4.80	1060	2383	✓	✓	✓	✓
RS 1500	63	2.48	10 - 122	0.39 - 4.80	1530	3440	✓	✓	✓	✓
RS 2400	75	2.95	13 - 122	0.51 - 4.80	2385	5362	✓	✓	✓	✓
RS 4200	95	3.74	13 - 122	0.51 - 4.80	4240	9532	✓	✓	✓	✓
RS 6600	120	4.72	13 - 122	0.51 - 4.80	6630	14905	✓	✓	✓	✓
RS 9500	150	5.91	16 - 122	0.63 - 4.80	9540	21447	✓	✓	✓	✓

RS



HOW TO ORDER



RS 2400-050-A - N - E

IT Codice cilindro autonomo
EN Self-contained cylinder code
DE Kode des eingeständigen Gdf.
FR Code du cylindre autonome
ES Código del cilindro autónomo
PT Código do cilindro autónomo

IT Collegabile con tubi, cilindro fornito scarico e senza valvola unidirezionale
EN Linkable with hoses, cylinder supplied without pressure and oneway valve
DE Anschlussfähig mit Leitungen, Gdf. geliefert ohne Druck und RückschlagVentil
FR Connectable avec tubes, ressort fourni sans pression ni valve unidirectionelle
ES Connectable con tubos, cilindro suministrado sin presión y sin válvula unidireccional
PT Acompláveis com tubos, cilindro fornecidos sem pressão e sem válvula unidireccional

IT Collegabile EASY MANIFOLD, fornito scarico + guarnizione di collegamento
EN Linkable EASY MANIFOLD, supplied without pressure + connecting seal
DE Anschlussfähig EASY MANIFOLD, geliefert ohne Druck + Verbindungsdichtung
FR Connectable EASY MANIFOLD, fourni sans pression + joint de connexion
ES Connectable EASY MANIFOLD, suministrado sin presión + junta de conexión
PT Acompláveis EASY MANIFOLD, fornecidos sem pressão + vedantes de conexão

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 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

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



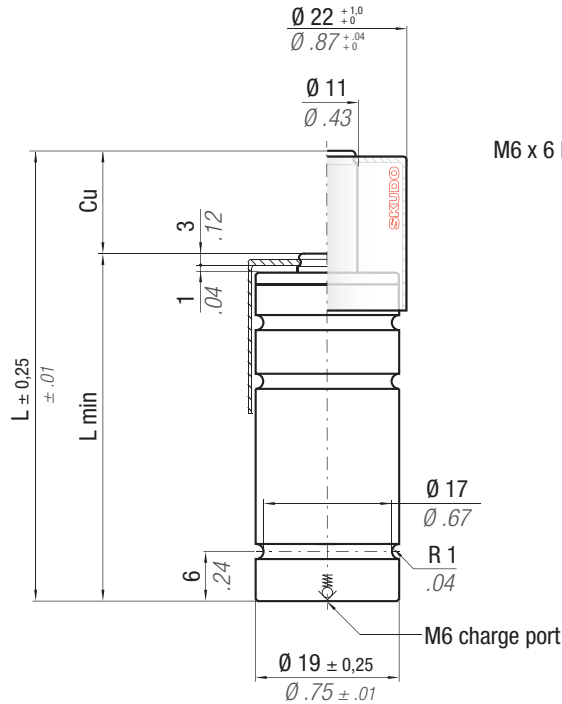
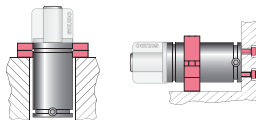
OPAS



SKUDO



NOT FOR

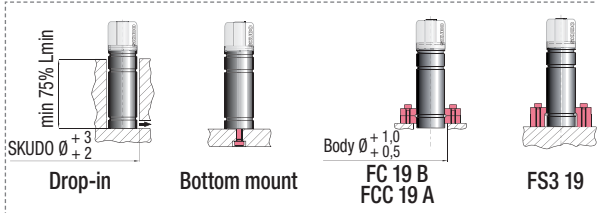


	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 0,95 cm ² 0.147 in ²	SPM ~ 40 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit Disposable
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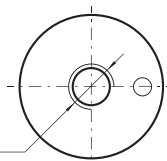
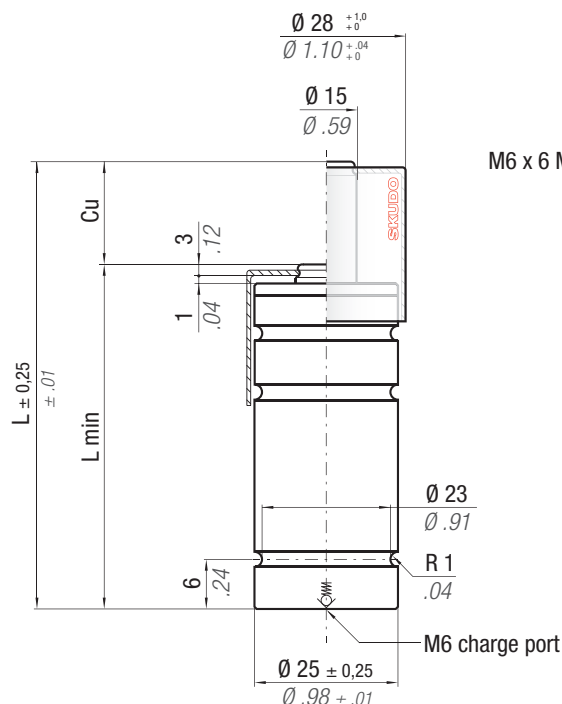
CODE PHASING OUT from 09/2013	NEW	Cu		L		L min		F ₀ Initial force		F _{1i} * End force *		F _{1p} ** End force **		V ₀		~Kg	~lb	PED 2014/68/EU
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³			
RS 170 - 007 - A	RS 170 - 007 - B	7	0.28	50	1.97	43	1.69	170 ± 5%	382	231	520	259	582	3,0	0.18	0,06	0.13	✓
RS 170 - 010 - A	RS 170 - 010 - B	10	0.39	56	2.20	46	1.81			245	551	279	627	4,0	0.24	0,07	0.14	✓
RS 170 - 012 - A	RS 170 - 012 - B	12	0.47	60	2.36	48	1.89			252	567	289	650	4,0	0.24	0,07	0.15	✓
RS 170 - 016 - A	RS 170 - 016 - B	16	0.63	68	2.68	52	2.05			263	592	305	686	5,0	0.31	0,07	0.16	✓
RS 170 - 022 - A	RS 170 - 022 - B	22	0.87	80	3.15	58	2.28			275	618	322	724	7,0	0.43	0,08	0.17	✓
RS 170 - 029 - A	RS 170 - 029 - B	29	1.14	94	3.70	65	2.56			284	639	336	755	8,0	0.49	0,09	0.19	✓
RS 170 - 035 - A	RS 170 - 035 - B	35	1.38	106	4.17	71	2.80			290	652	344	773	10,0	0.61	0,09	0.21	✓
RS 170 - 047 - A	RS 170 - 047 - B	47	1.85	130	5.12	83	3.27			298	669	356	800	13,0	0.79	0,11	0.24	✓
RS 170 - 060 - A	RS 170 - 060 - B	60	2.36	156	6.14	96	3.78			303	682	364	818	16,0	0.98	0,12	0.27	✓
RS 170 - 072 - A	RS 170 - 072 - B	72	2.83	185	7.28	113	4.45			296	665	353	794	19,0	1.16	0,14	0.31	✓
RS 170 - 077 - A	RS 170 - 077 - B	77	3.03	195	7.68	118	4.65	297	669	355	798	21,0	1.28	0,15	0.32	✓		
RS 170 - 097 - A	RS 170 - 097 - B	97	3.82	235	9.25	138	5.43	303	680	363	816	25,0	1.53	0,17	0.37	✓		
RS 170 - 122 - A	RS 170 - 122 - B	122	4.80	285	11.22	163	6.42	307	691	370	832	31,0	1.89	0,19	0.43	✓		

WARNING REMOVE SKUDO

Upside down mounting



HOW TO ORDER
(10 pcs) RS 170-047-B



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

ACTIVE SAFETY

* $F_{1i} =$

Isothermal end force at 100% Cu

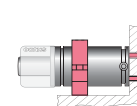
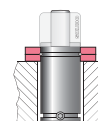


p. 16



** $F_{1p} =$

Polytropic end force at 100% Cu



OPAS



SKUDO

RS

N₂	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 1,77 cm ² 0.27 in ²	SPM ~ 40 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit Disposable
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CODE PHASING OUT from 09/2013	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	✓
RS 320 - 007 - A	RS 320 - 007 - B	7	0.28	50	1.97	43	1.69	320 719 ± 5%	180 bar 2610psi	423	950	472	1061	6,0	0.37	0,10	0.23	✓
RS 320 - 010 - A	RS 320 - 010 - B	10	0.39	56	2.20	46	1.81			447	1004	506	1138	8,0	0.49	0,11	0.24	✓
RS 320 - 012 - A	RS 320 - 012 - B	12	0.47	60	2.36	48	1.89			459	1032	523	1176	8,0	0.49	0,11	0.25	✓
RS 320 - 016 - A	RS 320 - 016 - B	16	0.63	68	2.68	52	2.05			479	1077	552	1241	10,0	0.61	0,12	0.26	✓
RS 320 - 022 - A	RS 320 - 022 - B	22	0.87	80	3.15	58	2.28			499	1123	581	1306	13,0	0.79	0,13	0.29	✓
RS 320 - 029 - A	RS 320 - 029 - B	29	1.14	94	3.70	65	2.56			516	1159	605	1360	16,0	0.98	0,14	0.31	✓
RS 320 - 035 - A	RS 320 - 035 - B	35	1.38	106	4.17	71	2.80			526	1182	620	1394	19,0	1.16	0,15	0.33	✓
RS 320 - 047 - A	RS 320 - 047 - B	47	1.85	130	5.12	83	3.27			540	1213	641	1441	24,0	1.46	0,17	0.38	✓
RS 320 - 060 - A	RS 320 - 060 - B	60	2.36	156	6.14	96	3.78			549	1235	655	1472	30,0	1.83	0,19	0.43	✓
RS 320 - 072 - A	RS 320 - 072 - B	72	2.83	185	7.28	113	4.45			537	1207	636	1430	38,0	2.32	0,22	0.48	✓
RS 320 - 077 - A	RS 320 - 077 - B	77	3.03	195	7.68	118	4.65	540	1213	641	1441	40,0	2.44	0,23	0.50	✓		
RS 320 - 097 - A	RS 320 - 097 - B	97	3.82	235	9.25	138	5.43	549	1234	654	1470	49,0	2.99	0,26	0.57	✓		
RS 320 - 122 - A	RS 320 - 122 - B	122	4.80	285	11.22	163	6.42	557	1252	666	1497	60,0	4.09	0,30	0.66	✓		

WARNING REMOVE SKUDO

Upside down mounting

Drop-in

Bottom mount

FC 25 B
FCC 25 A

FS3 25

HOW TO ORDER

(10 pcs) RS 320-047-B

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

ACTIVE SAFETY

easu MANIFOLD p. 211



OSAS



USAS



OPAS



SKUDO

* $F_{1i} =$

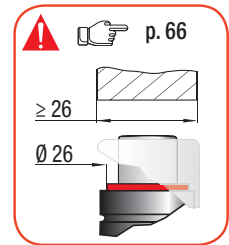
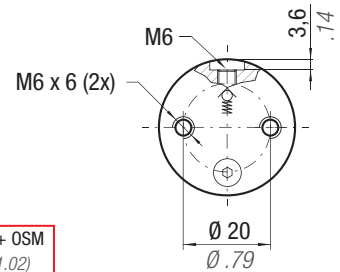
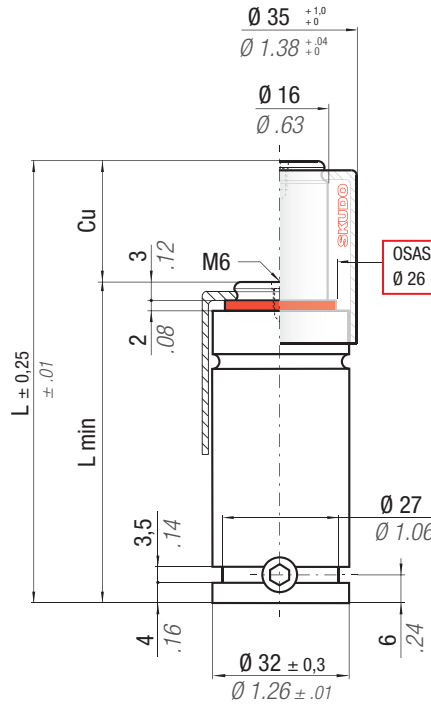
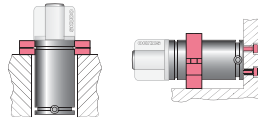
Isothermal end force at 100% Cu p. 16

** $F_{1p} =$

Polytropic end force at 100% Cu

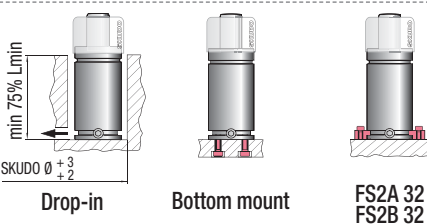
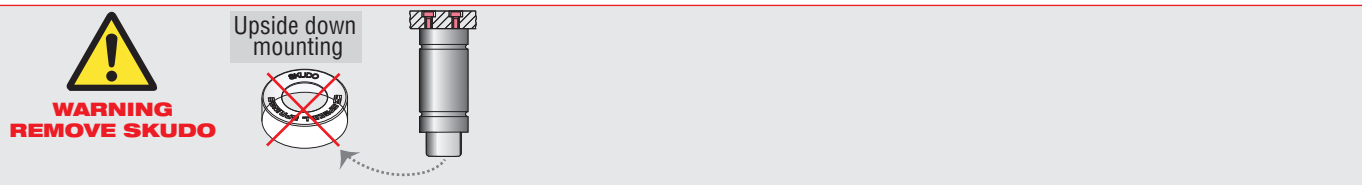


NOT FOR

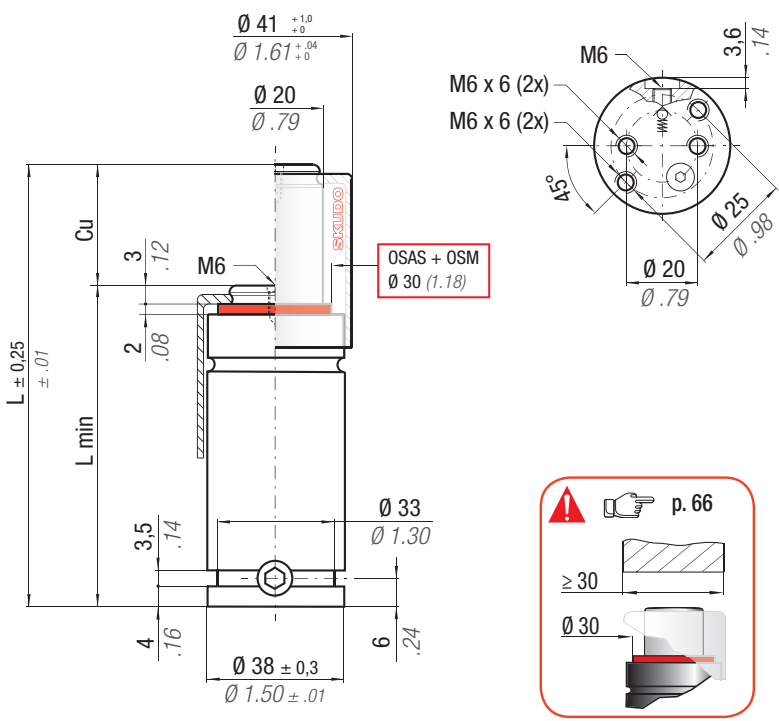


	°F 32 176	°C 0 80	ΔP ± 0,33 %/°C	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 2,01 cm ² 0,312 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00350C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RS 350 - 007 - A	7	0.28	50	1.97	43	1.69	360 ± 5%	809	458	1030	505	1136	8,0	0.49	0,16	0.36	✓
RS 350 - 010 - A	10	0.39	56	2.20	46	1.81			478	1075	533	1199	10,0	0.61	0,17	0.38	✓
RS 350 - 013 - A	13	0.51	62	2.44	49	1.93			493	1109	554	1245	12,0	0.73	0,18	0.40	✓
RS 350 - 016 - A	16	0.63	68	2.68	52	2.05			505	1134	570	1282	14,0	0.85	0,19	0.42	✓
RS 350 - 022 - A	22	0.87	80	3.15	58	2.28			521	1171	593	1333	18,0	1.10	0,21	0.46	✓
RS 350 - 029 - A	29	1.14	94	3.70	65	2.56			533	1199	611	1374	22,0	1.34	0,23	0.51	✓
RS 350 - 035 - A	35	1.38	106	4.17	71	2.80			541	1216	622	1399	26,0	1.59	0,25	0.55	✓
RS 350 - 047 - A	47	1.85	130	5.12	83	3.27			552	1240	637	1432	33,0	2.01	0,29	0.63	✓
RS 350 - 060 - A	60	2.36	156	6.14	96	3.78			559	1256	648	1456	41,0	2.50	0,33	0.72	✓
RS 350 - 072 - A	72	2.83	180	7.09	108	4.25			563	1266	654	1471	49,0	2.99	0,36	0.80	✓
RS 350 - 077 - A	77	3.03	190	7.48	113	4.45			565	1270	657	1476	52,0	3.17	0,38	0.83	✓
RS 350 - 097 - A	97	3.82	230	9.06	133	5.24			570	1281	663	1492	65,0	3.97	0,44	0.96	✓
RS 350 - 122 - A	122	4.80	280	11.02	158	6.22			574	1289	669	1504	80,0	4.88	0,51	1.13	✓



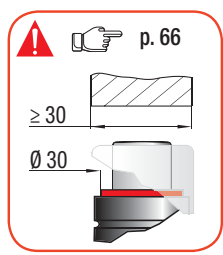
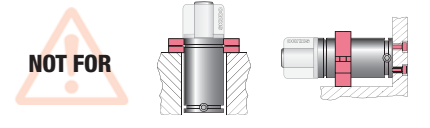
HOW TO ORDER
(10 pcs) RS 350-047-A
(10 pcs) RS 350-047-A-N



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

easu MANIFOLD p. 211

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



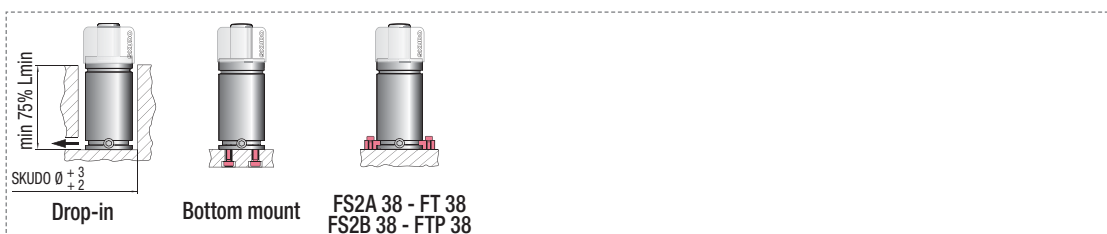
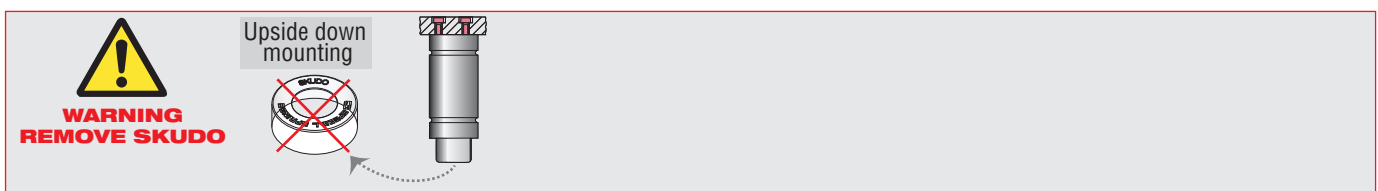
ACTIVE SAFETY

- OSAS
- USAS
- OPAS
- SKUDO

RS

	$^{\circ}\text{F}$ 32 - 176	$^{\circ}\text{C}$ 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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00500C
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CODE	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	✓
RS 500 - 007 - A	7	0.28	50	1.97	43	1.69	470 1057 ± 5%		609	1370	694	1560	11,0	0.67	0,24	0.53	✓
RS 500 - 010 - A	10	0.39	56	2.20	46	1.81			639	1437	739	1661	14,0	0.85	0,25	0.55	✓
RS 500 - 013 - A	13	0.51	62	2.44	49	1.93			661	1486	773	1738	17,0	1.04	0,26	0.57	✓
RS 500 - 016 - A	16	0.63	68	2.68	52	2.05			678	1524	800	1798	19,0	1.16	0,28	0.62	✓
RS 500 - 022 - A	22	0.87	80	3.15	58	2.28			703	1579	838	1884	24,0	1.46	0,31	0.68	✓
RS 500 - 029 - A	29	1.14	94	3.70	65	2.56			722	1622	868	1951	30,0	1.83	0,34	0.75	✓
RS 500 - 035 - A	35	1.38	106	4.17	71	2.80			733	1648	887	1994	35,0	2.14	0,37	0.82	✓
RS 500 - 047 - A	47	1.85	130	5.12	83	3.27			749	1684	913	2053	46,0	2.81	0,42	0.93	✓
RS 500 - 060 - A	60	2.36	156	6.14	96	3.78			760	1709	931	2093	57,0	3.48	0,48	1.06	✓
RS 500 - 072 - A	72	2.83	180	7.09	108	4.25			767	1725	942	2118	67,0	4.09	0,54	1.19	✓
RS 500 - 077 - A	77	3.03	190	7.48	113	4.45			770	1730	946	2127	72,0	4.39	0,56	1.23	✓
RS 500 - 097 - A	97	3.82	230	9.06	133	5.24			777	1747	958	2154	89,0	5.43	0,66	1.46	✓
RS 500 - 122 - A	122	4.80	280	11.02	158	6.22			783	1760	968	2176	110,0	6.71	0,77	1.70	✓



HOW TO ORDER
 (10 pcs) RS 500-047-A
 (10 pcs) RS 500-047-A-N

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

ACTIVE SAFETY

easu MANIFOLD p. 211



OSAS



USAS



OPAS



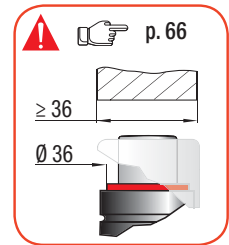
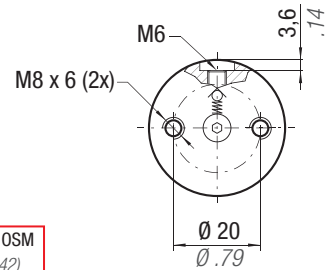
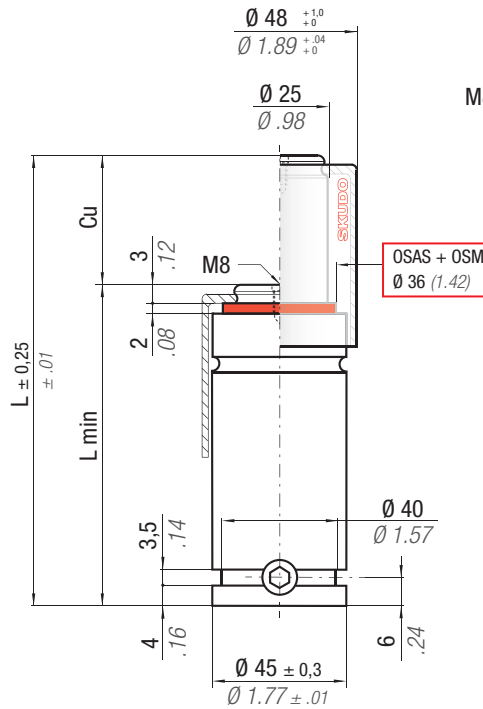
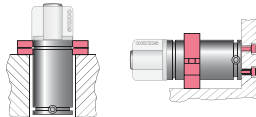
SKUDO

* $F_{1i} =$

Isothermal end force at 100% Cu p. 16

** $F_{1p} =$

Polytropic end force at 100% Cu

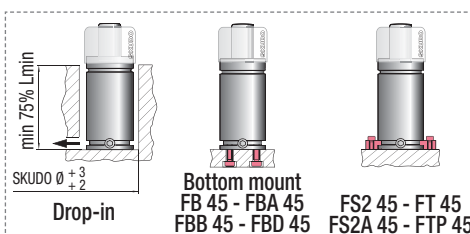


	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4,91 cm ² 0,761 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00750C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RS 750 - 007 - A	7	0.28	52	2.05	45	1.77	740 ± 5%	1664	956	2148	1090	2450	18,0	1.10	0,36	0.79	✓
RS 750 - 010 - A	10	0.39	58	2.28	48	1.89			1006	2262	1166	2621	21,0	1.28	0,38	0.84	✓
RS 750 - 013 - A	13	0.51	64	2.52	51	2.01			1044	2347	1225	2754	25,0	1.53	0,39	0.86	✓
RS 750 - 016 - A	16	0.63	70	2.76	54	2.13			1074	2414	1272	2860	29,0	1.77	0,41	0.90	✓
RS 750 - 022 - A	22	0.87	82	3.23	60	2.36			1117	2511	1340	3012	37,0	2.26	0,45	0.99	✓
RS 750 - 029 - A	29	1.14	96	3.78	67	2.64			1151	2588	1395	3136	46,0	2.81	0,50	1.10	✓
RS 750 - 035 - A	35	1.38	108	4.25	73	2.87			1173	2636	1429	3213	53,0	3.23	0,54	1.19	✓
RS 750 - 047 - A	47	1.85	132	5.20	85	3.35			1202	2702	1477	3320	68,0	4.15	0,61	1.34	✓
RS 750 - 060 - A	60	2.36	158	6.22	98	3.86			1223	2748	1511	3397	85,0	5.19	0,70	1.54	✓
RS 750 - 072 - A	72	2.83	182	7.17	110	4.33			1236	2778	1533	3446	100,0	6.10	0,77	1.70	✓
RS 750 - 077 - A	77	3.03	192	7.56	115	4.53			1240	2788	1540	3462	107,0	6.53	0,81	1.79	✓
RS 750 - 097 - A	97	3.82	232	9.13	135	5.31			1254	2819	1563	3514	132,0	8.05	0,93	2.05	✓
RS 750 - 122 - A	122	4.80	282	11.10	160	6.30			1266	2845	1582	3556	164,0	10.00	1,10	2.43	✓

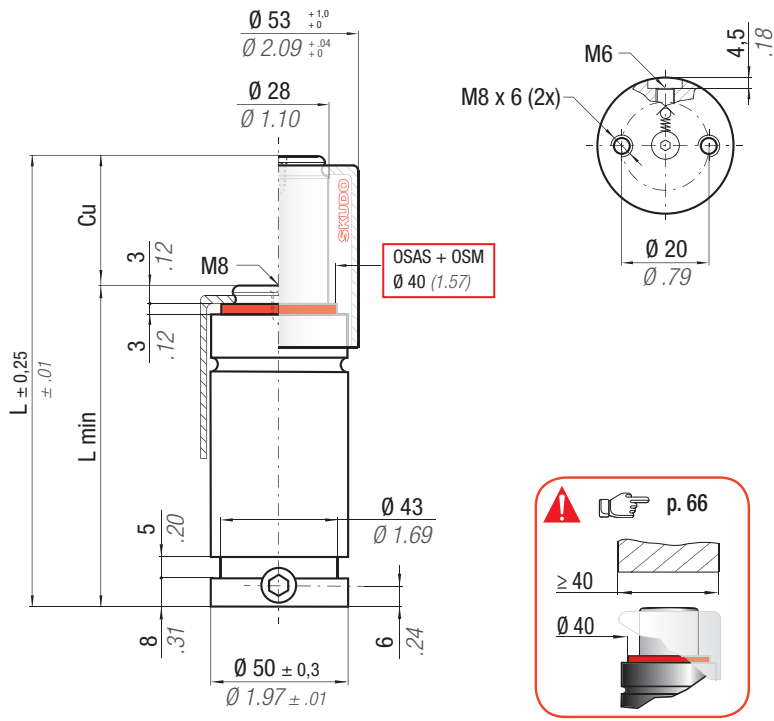
WARNING REMOVE SKUDO

Upside down mounting



HOW TO ORDER

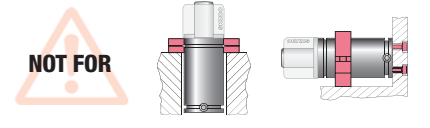
(10 pcs) RS 750-047-A
(10 pcs) RS 750-047-A-N



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

easu MANIFOLD p. 211

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



ACTIVE SAFETY

- OSAS
- USAS
- OPAS
- SKUDO

RS

	$^{\circ}\text{F}$ 32 - 176	$^{\circ}\text{C}$ 0 - 80	ΔP $\pm 0,33 \text{ } \%/^{\circ}\text{C}$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 6,15 cm ² 0.953 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C
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CODE	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
RS 1000 - 010 - A	10	0.39	64	2.52	54	2.13	920 2068 ± 5% 150 bar 2175 psi + 20 °C +68 °F		1222	2748	1402	3152	29,0	1.77	0,51	1.12	✓
RS 1000 - 013 - A	13	0.51	70	2.76	57	2.24			1270	2856	1476	3318	34,0	2.07	0,54	1.19	✓
RS 1000 - 016 - A	16	0.63	76	2.99	60	2.36			1309	2943	1536	3453	39,0	2.38	0,56	1.23	✓
RS 1000 - 022 - A	22	0.87	88	3.46	66	2.60			1368	3075	1628	3660	48,0	2.93	0,61	1.34	✓
RS 1000 - 029 - A	29	1.14	102	4.02	73	2.87			1416	3183	1705	3833	59,0	3.60	0,67	1.48	✓
RS 1000 - 035 - A	35	1.38	114	4.49	79	3.11			1446	3252	1754	3943	69,0	4.21	0,71	1.57	✓
RS 1000 - 047 - A	47	1.85	138	5.43	91	3.58			1490	3349	1824	4101	88,0	5.37	0,81	1.79	✓
RS 1000 - 060 - A	60	2.36	164	6.46	104	4.09			1521	3419	1875	4215	108,0	6.59	0,91	2.01	✓
RS 1000 - 072 - A	72	2.83	188	7.40	116	4.57			1542	3466	1908	4289	127,0	7.75	1,05	2.31	✓
RS 1000 - 077 - A	77	3.03	198	7.80	121	4.76			1549	3481	1920	4316	135,0	8.24	1,09	2.40	✓
RS 1000 - 097 - A	97	3.82	238	9.37	141	5.55			1570	3530	1956	4397	166,0	10.13	1,21	2.67	✓
RS 1000 - 122 - A	122	4.80	288	11.34	166	6.54			1588	3571	1986	4465	205,0	12.51	1,41	3.11	✓

WARNING REMOVE SKUDO Upside down mounting

Drop-in **Bottom mount** **FS2 50 - FT 50**

FSB 50 - FBA 50
FBB 50 - FBD 50
FS2A 50 - FTP 50

HOW TO ORDER

(10 pcs) RS 1000-047-A
(10 pcs) RS 1000-047-A-N

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

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS



USAS



OPAS



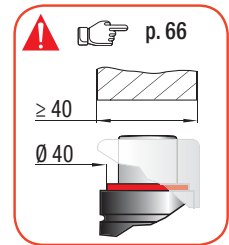
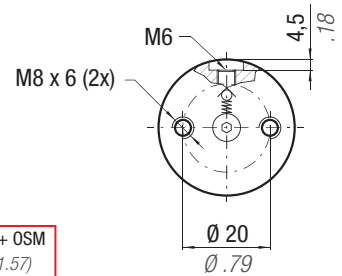
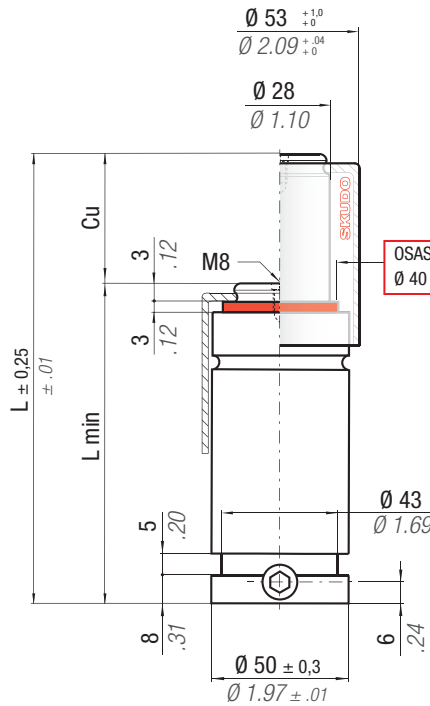
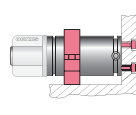
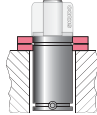
SKUDO

* F_{1i} =

Isothermal end force at 100% Cu p. 16

** F_{1p} =

Polytropic end force at 100% Cu

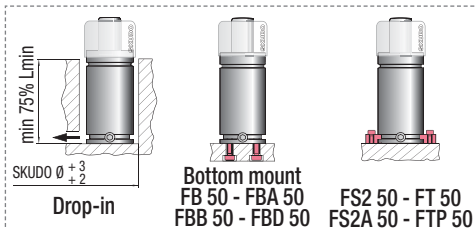


	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 170 bar 2465 psi	P min 20 bar 290 psi	S 6,15 cm ² 0,953 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RS 1200 - 010 - A	10	0.39	64	2.52	54	2.13	1060 ± 5%	2383	1401	3150	1581	3554	30,0	1.83	0,51	1.12	✓
RS 1200 - 013 - A	13	0.51	70	2.76	57	2.24			1458	3278	1664	3741	34,0	2.07	0,54	1.19	✓
RS 1200 - 016 - A	16	0.63	76	2.99	60	2.36			1505	3383	1732	3893	39,0	2.38	0,56	1.23	✓
RS 1200 - 022 - A	22	0.87	88	3.46	66	2.60			1575	3540	1836	4127	48,0	2.93	0,61	1.34	✓
RS 1200 - 029 - A	29	1.14	102	4.02	73	2.87			1633	3670	1922	4321	59,0	3.60	0,67	1.48	✓
RS 1200 - 035 - A	35	1.38	114	4.49	79	3.11			1669	3753	1977	4445	69,0	4.21	0,71	1.57	✓
RS 1200 - 047 - A	47	1.85	138	5.43	91	3.58			1721	3870	2056	4622	88,0	5.37	0,81	1.79	✓
RS 1200 - 060 - A	60	2.36	164	6.46	104	4.09			1759	3954	2114	4752	108,0	6.59	0,91	2.01	✓
RS 1200 - 072 - A	72	2.83	188	7.40	116	4.57			1784	4010	2152	4837	127,0	7.75	1,05	2.31	✓
RS 1200 - 077 - A	77	3.03	198	7.80	121	4.76			1792	4029	2165	4866	135,0	8.24	1,09	2.40	✓
RS 1200 - 097 - A	97	3.82	238	9.37	141	5.55	1818	4087	2205	4957	166,0	10.13	1,21	2.67	✓		
RS 1200 - 122 - A	122	4.80	288	11.34	166	6.54	1840	4136	2239	5033	205,0	12.51	1,41	3.11	✓		

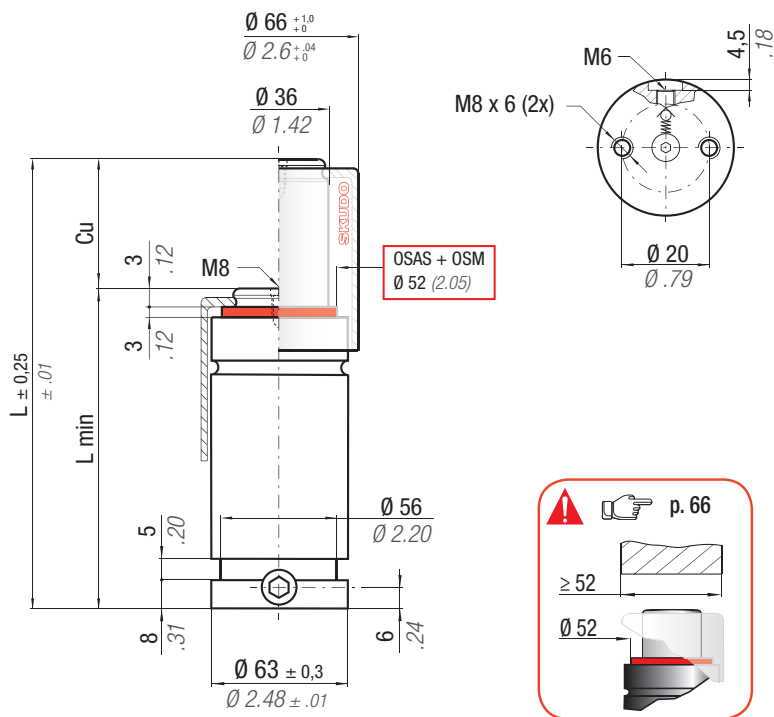
WARNING REMOVE SKUDO

Upside down mounting



HOW TO ORDER

(10 pcs) RS 1200-047-A
(10 pcs) RS 1200-047-A-N



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

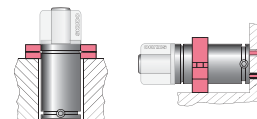
easu MANIFOLD p. 211

* F_{1i} =

Isothermal end force at 100% Cu p. 16

** F_{1p} =

Polytropic end force at 100% Cu



ACTIVE SAFETY



OSAS



USAS



OPAS



SKUDO

RS

	$^{\circ}\text{F}$ 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 10,18 cm ² 1.578 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01500C
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CODE	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
RS 1500 - 010 - A	10	0.39	70	2.76	60	2.36	1530 3440 $\pm 5\%$ 150 bar 2175 psi + 20 °C +68 °F		1970	4428	2241	5038	53,0	3.23	0,92	2,03	✓
RS 1500 - 013 - A	13	0.51	76	2.99	63	2.48			2045	4597	2355	5294	61,0	3.72	0,96	2.12	✓
RS 1500 - 016 - A	16	0.63	82	3.23	66	2.60			2106	4735	2450	5508	69,0	4.21	0,99	2.18	✓
RS 1500 - 022 - A	22	0.87	94	3.70	72	2.83			2201	4947	2596	5836	85,0	5.19	1,06	2.34	✓
RS 1500 - 029 - A	29	1.14	108	4.25	79	3.11			2279	5124	2720	6115	103,0	6.28	1,14	2.51	✓
RS 1500 - 035 - A	35	1.38	120	4.72	85	3.35			2330	5238	2801	6297	119,0	7.26	1,21	2.67	✓
RS 1500 - 047 - A	47	1.85	144	5.67	97	3.82			2402	5401	2917	6558	151,0	9.21	1,35	2.98	✓
RS 1500 - 060 - A	60	2.36	170	6.69	110	4.33			2455	5520	3003	6751	186,0	11.35	1,51	3.33	✓
RS 1500 - 072 - A	72	2.83	194	7.64	122	4.80			2490	5599	3060	6879	217,0	13.24	1,65	3.64	✓
RS 1500 - 077 - A	77	3.03	204	8.03	127	5.00			2502	5625	3079	6922	231,0	14.09	1,71	3.77	✓
RS 1500 - 097 - A	97	3.82	244	9.61	147	5.79			2540	5709	3141	7061	284,0	17.32	1,94	4.28	✓
RS 1500 - 122 - A	122	4.80	294	11.57	172	6.77			2571	5780	3193	7178	350,0	21.35	2,23	4.92	✓

WARNING REMOVE SKUDO

Upside down mounting

HOW TO ORDER

(10 pcs) RS 1500-047-A
(10 pcs) RS 1500-047-A-N

Drop-in SKUDO $\varnothing \pm \frac{3}{+2}$

Bottom mount - FB 50 FS2 63 - FS2A 63
FBA 50 - FBD 50 FS2B 63 - FT 63
FB 63 - FBB 63 FTP 63

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

ACTIVE SAFETY

easu MANIFOLD p. 211



OSAS



USAS



OPAS



SKUDO

* $F_{1i} =$

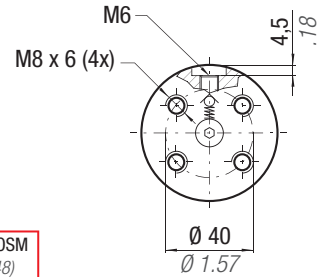
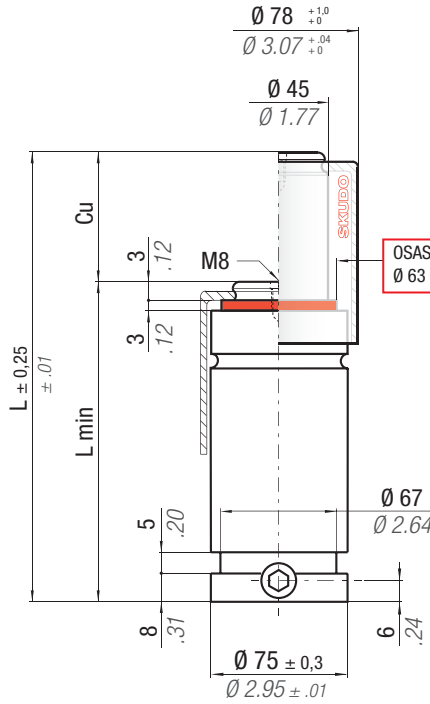
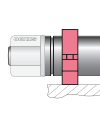
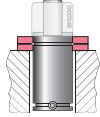
Isothermal end force at 100% Cu p. 16

** $F_{1p} =$

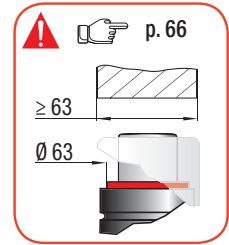
Polytropic end force at 100% Cu p. 16



NOT FOR



OSAS + OSM
Ø 63 (2.48)

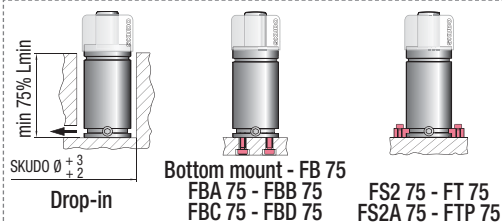


	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 15,90 cm ² 2.465 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV02400C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RS 2400 - 013 - A	13	0.51	77	3.03	64	2.52	2385 ± 5%	5362	3220	7238	3718	8358	93,0	5.67	1,36	3,00	✓
RS 2400 - 016 - A	16	0.63	83	3.27	67	2.64			3320	7465	3873	8707	105,0	6.41	1,40	3,09	✓
RS 2400 - 022 - A	22	0.87	95	3.74	73	2.87			3476	7814	4115	9251	129,0	7.87	1,50	3,31	✓
RS 2400 - 029 - A	29	1.14	109	4.29	80	3.15			3606	8107	4322	9716	157,0	9.58	1,61	3,55	✓
RS 2400 - 035 - A	35	1.38	121	4.76	86	3.39			3690	8296	4456	10017	181,0	11.04	1,70	3,75	✓
RS 2400 - 047 - A	47	1.85	145	5.71	98	3.86			3811	8568	4651	10456	230,0	14.03	1,89	4,17	✓
RS 2400 - 060 - A	60	2.36	171	6.73	111	4.37			3900	8768	4796	10782	282,0	17.20	2,09	4,61	✓
RS 2400 - 072 - A	72	2.83	195	7.68	123	4.84			3959	8900	4892	10998	330,0	20.13	2,28	5,03	✓
RS 2400 - 077 - A	77	3.03	205	8.07	128	5.04			3979	8946	4925	11072	350,0	21.35	2,36	5,20	✓
RS 2400 - 097 - A	97	3.82	245	9.65	148	5.83			4042	9087	5029	11306	431,0	26.29	2,67	5,89	✓
RS 2400 - 122 - A	122	4.80	295	11.61	173	6.81	4096	9207	5117	11503	532,0	32.45	3,07	6,77	✓		

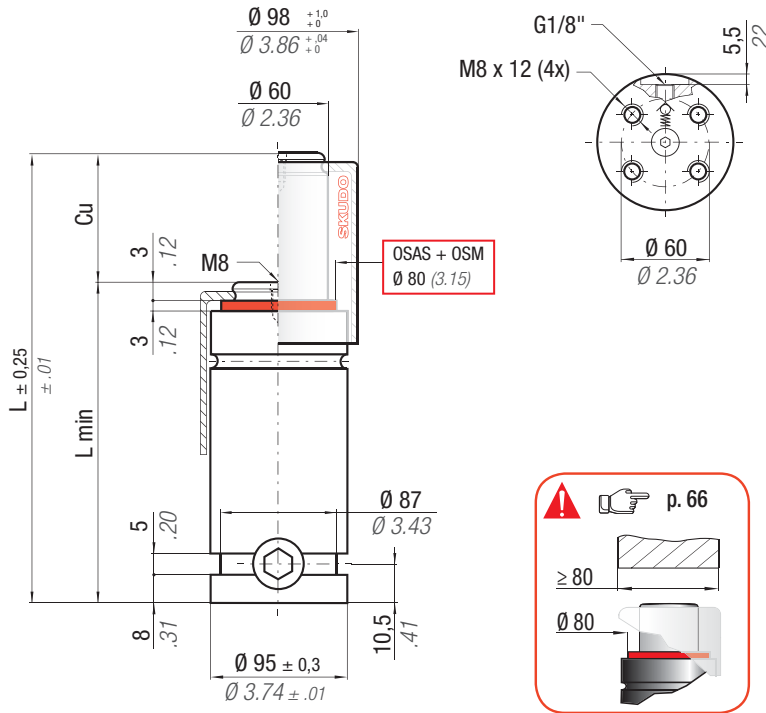
WARNING REMOVE SKUDO

Upside down mounting



HOW TO ORDER

(10 pcs) RS 2400-047-A
(10 pcs) RS 2400-047-A-N



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

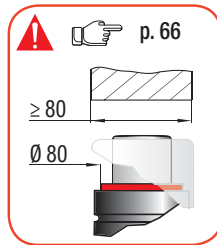
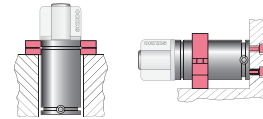
easu MANIFOLD p. 211

* F_{1i} =

Isothermal end force at 100% Cu p. 16

** F_{1p} =

Polytropic end force at 100% Cu



ACTIVE SAFETY



OSAS



USAS



OPAS

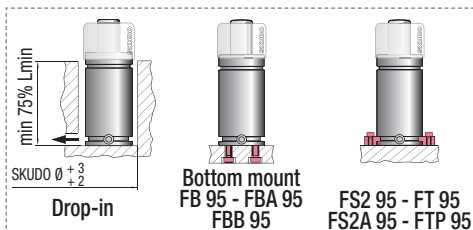
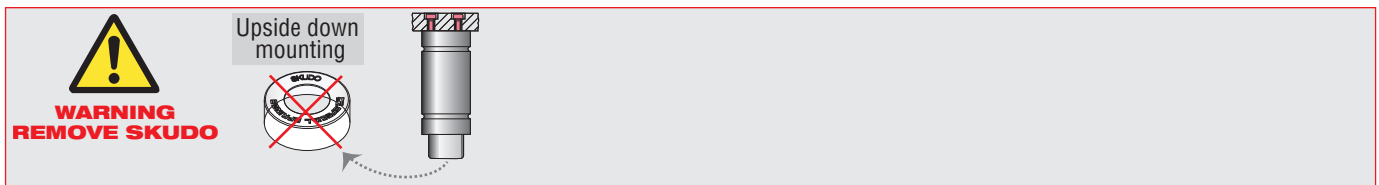


SKUDO

RS

	°F 32 - 176	°C 0 - 80	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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV04200C
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CODE	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	
RS 4200 - 013 - A	13	0.51	90	3.54	77	3.03	4240 ± 5% 150 bar 2175 psi + 20 °C +68 °F	9532	5633	12664	6471	14547	173,0	10.55	2,76	6.08	✓
RS 4200 - 016 - A	16	0.63	96	3.78	80	3.15			5823	13090	6761	15199	194,0	11.83	2,83	6.24	✓
RS 4200 - 022 - A	22	0.87	108	4.25	86	3.39			6125	13771	7232	16258	234,0	14.27	2,98	6.57	✓
RS 4200 - 029 - A	29	1.14	122	4.80	93	3.66			6390	14365	7650	17198	281,0	17.14	3,16	6.97	✓
RS 4200 - 035 - A	35	1.38	134	5.28	99	3.90			6566	14761	7931	17830	322,0	19.64	3,30	7.28	✓
RS 4200 - 047 - A	47	1.85	158	6.22	111	4.37			6827	15347	8351	18774	403,0	24.58	3,60	7.94	✓
RS 4200 - 060 - A	60	2.36	184	7.24	124	4.88			7024	15790	8673	19498	491,0	29.95	3,93	8.66	✓
RS 4200 - 072 - A	72	2.83	208	8.19	136	5.35			7158	16091	8893	19992	572,0	34.89	4,20	9.26	✓
RS 4200 - 077 - A	77	3.03	218	8.58	141	5.55			7204	16195	8970	20165	606,0	36.97	4,35	9.59	✓
RS 4200 - 097 - A	97	3.82	258	10.16	161	6.34			7350	16524	9212	20709	741,0	45.20	4,85	10.69	✓
RS 4200 - 122 - A	122	4.80	308	12.13	186	7.32	7476	16807	9423	21184	910,0	55.51	5,47	12.06	✓		



HOW TO ORDER

(10 pcs) RS 4200-047-A
(10 pcs) RS 4200-047-A-N

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

ACTIVE SAFETY

easyl MANIFOLD p. 211



OSAS



USAS



OPAS



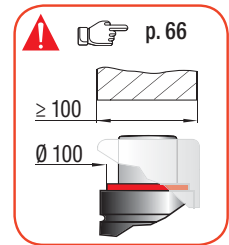
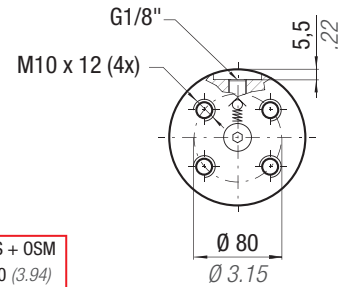
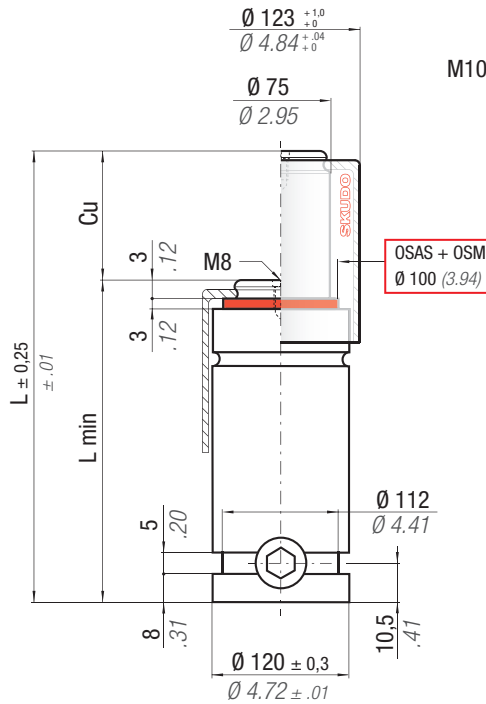
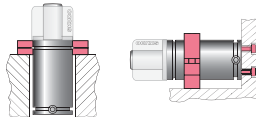
SKUDO

* F_{1i} =

Isothermal end force at 100% Cu p. 16

** F_{1p} =

Polytropic end force at 100% Cu

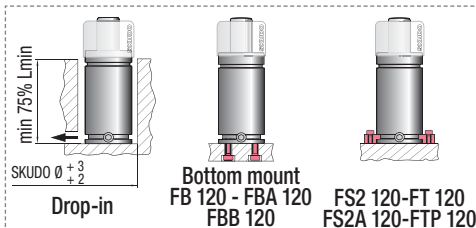


	$^{\circ}\text{F}$ 32 - 176	$^{\circ}\text{C}$ 0 - 80	ΔP $\pm 0,33\% / ^{\circ}\text{C}$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 44,18 cm ² 6.848 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV06600C
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CODE	Cu		L		L min		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
RS 6600 - 013 - A	13	0.51	100	3.94	87	3.43	6630 ± 5%	14904	8535	19187	9705	21818	300,0	18.30	5,06	11.16	✓
RS 6600 - 016 - A	16	0.63	106	4.17	90	3.54			8812	19811	10127	22766	332,0	20.25	5,17	11.40	✓
RS 6600 - 022 - A	22	0.87	118	4.65	96	3.78			9265	20829	10824	24333	396,0	24.16	5,42	11.95	✓
RS 6600 - 029 - A	29	1.14	132	5.20	103	4.06			9671	21742	11458	25759	471,0	28.73	5,69	12.54	✓
RS 6600 - 035 - A	35	1.38	144	5.67	109	4.29			9946	22360	11892	26734	535,0	32.64	5,93	13.07	✓
RS 6600 - 047 - A	47	1.85	168	6.61	121	4.76			10362	23296	12557	28229	663,0	40.44	6,40	14.11	✓
RS 6600 - 060 - A	60	2.36	194	7.64	134	5.28			10684	24018	13077	29398	802,0	48.92	6,90	15.21	✓
RS 6600 - 072 - A	72	2.83	218	8.58	146	5.75			10905	24515	13438	30210	930,0	56.73	7,40	16.31	✓
RS 6600 - 077 - A	77	3.03	228	8.98	151	5.94			10982	24689	13564	30493	983,0	59.96	7,60	16.76	✓
RS 6600 - 097 - A	97	3.82	268	10.55	171	6.73			11229	25243	13970	31406	1197,0	73.02	8,40	18.52	✓
RS 6600 - 122 - A	122	4.80	318	12.52	196	7.72	11443	25726	14326	32206	1464,0	89.30	9,40	20.72	✓		

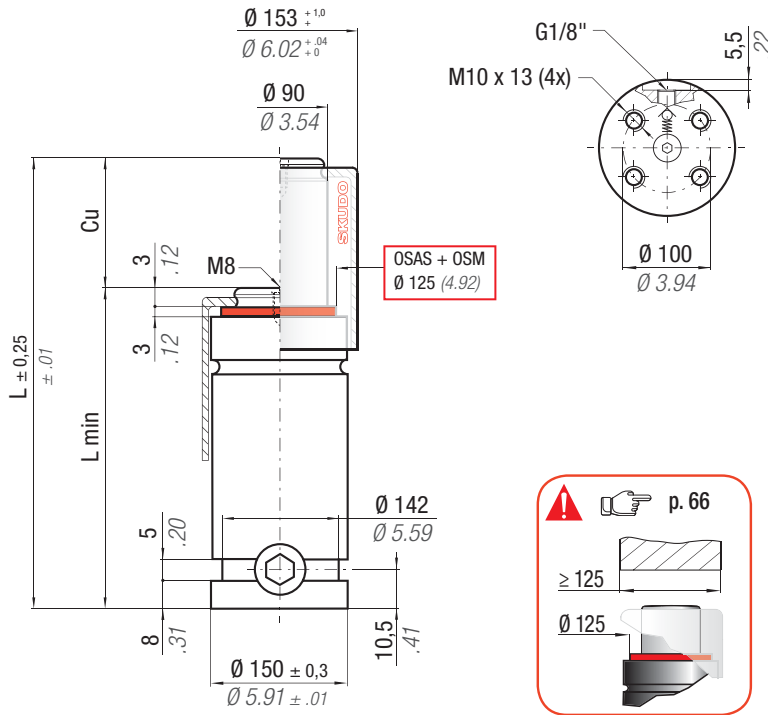
WARNING REMOVE SKUDO

Upside down mounting



HOW TO ORDER

(10 pcs) RS 6600-047-A
(10 pcs) RS 6600-047-A-N



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

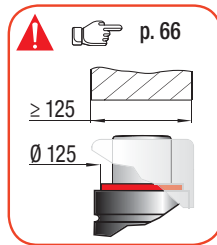
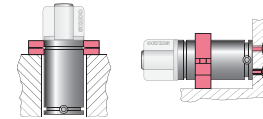
easu MANIFOLD p. 211

* F_{1i} =

Isothermal end force at 100% Cu p. 16

** F_{1p} =

Polytropic end force at 100% Cu



ACTIVE SAFETY



OSAS



USAS



OPAS

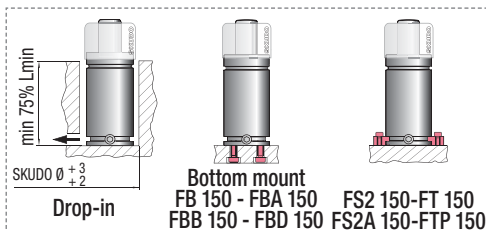
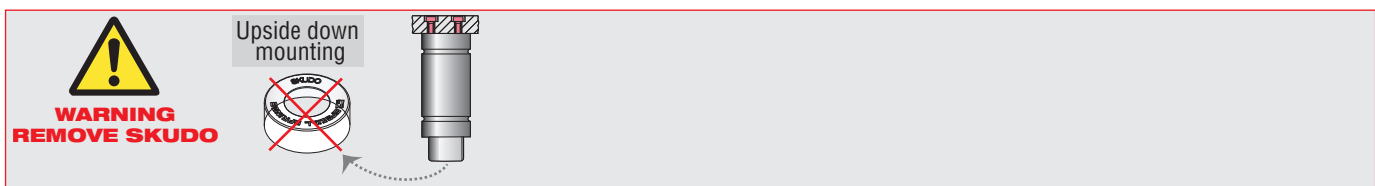


SKUDO

RS

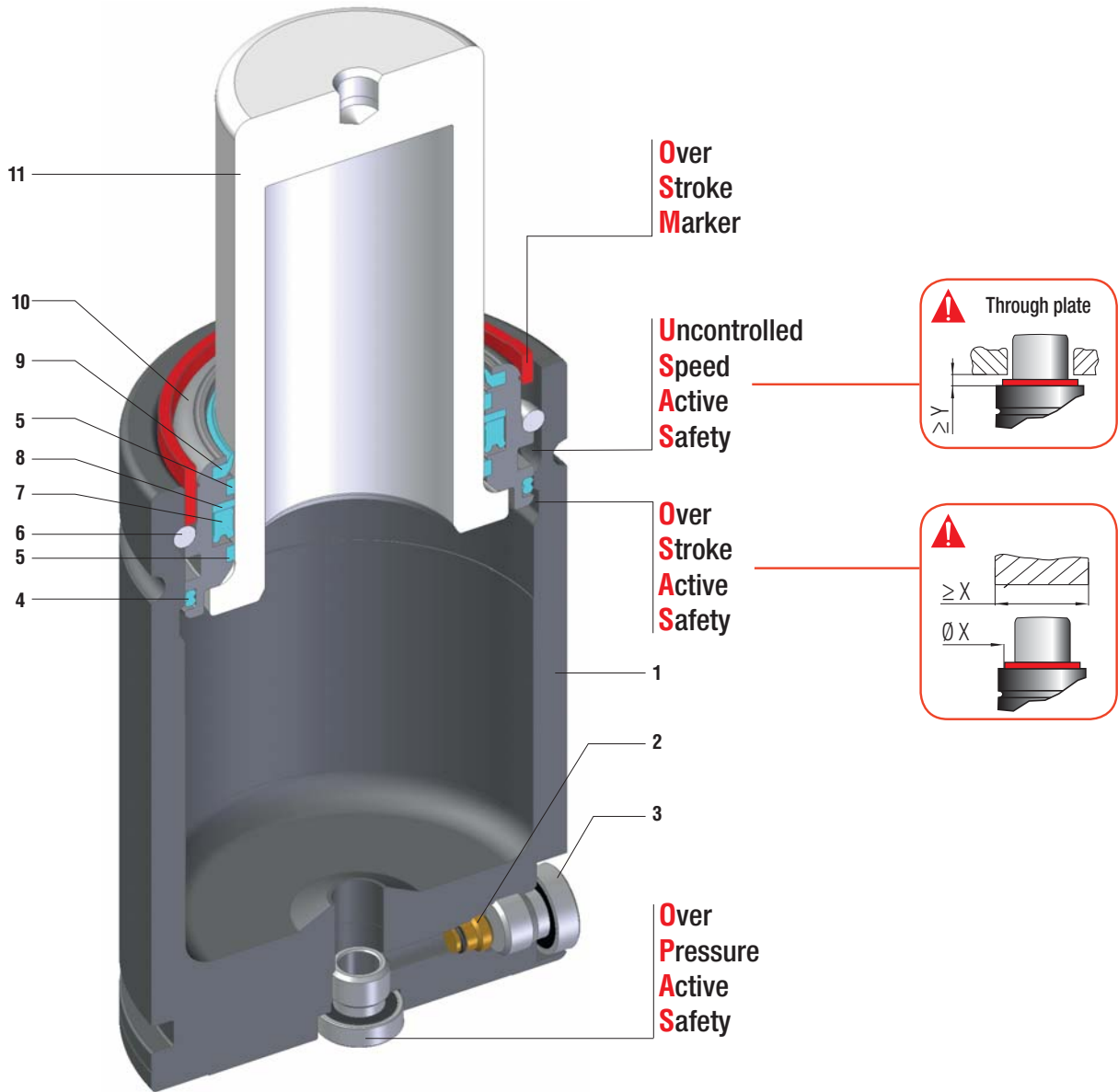
	$^{\circ}F$ 32 - 176	$^{\circ}C$ 0 - 80	ΔP $\pm 0,33 \% / ^{\circ}C$	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 63,62 cm ² 9.861 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV09500C
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CODE	Cu		L		L min		F ₀ Initial force		F _{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	✓
RS 9500 - 016 - A	16	0.63	116	4.57	100	3.94			12388	27849	14124	31752	517,0	31.54	9,51	20.97	✓
RS 9500 - 022 - A	22	0.87	128	5.04	106	4.17			12985	29192	15035	33800	614,0	37.45	9,90	21.83	✓
RS 9500 - 029 - A	29	1.14	142	5.59	113	4.45	9540	21446	13523	30401	15867	35670	727,0	44.35	10,30	22.71	✓
RS 9500 - 035 - A	35	1.38	154	6.06	119	4.69	$\pm 5\%$		13888	31222	16439	36956	823,0	50.20	10,70	23.59	✓
RS 9500 - 047 - A	47	1.85	178	7.01	131	5.16			14443	32470	17317	38930	1017,0	62.04	11,40	25.13	✓
RS 9500 - 060 - A	60	2.36	204	8.03	144	5.67	150 bar 2175 psi		14873	33436	18004	40475	1226,0	74.79	12,20	26.90	✓
RS 9500 - 072 - A	72	2.83	228	8.98	156	6.14			15170	34104	18483	41551	1420,0	86.62	13,00	28.66	✓
RS 9500 - 077 - A	77	3.03	238	9.37	161	6.34	+ 20 °C +68 °F		15274	34337	18651	41929	1500,3	91.52	13,30	29.32	✓
RS 9500 - 097 - A	97	3.82	278	10.94	181	7.13			15606	35083	19191	43143	1823,0	111.20	14,60	32.19	✓
RS 9500 - 122 - A	122	4.80	328	12.91	206	8.11			15896	35735	19666	44211	2226,0	135.79	16,10	35.49	✓



HOW TO ORDER

(10 pcs) RS 9500-047-A
(10 pcs) RS 9500-047-A-N



Minima altezza, massima forza, collegabili G1/8 - Minimum height, maximum force, hose cylinders with G1/8 charging port - Minimale Höhe, maximale Kraft, Gdf. mit G1/8 Öffnung verbindbar - Hauteur minimale, force maximale, cylindres raccordés avec trou G1/8 gaz - Mínima altura, máxima fuerza, cilindros conectados con agujero G1/8 gas - Altura mínima, força máxima, cilindros conectados com furo G1/8 gás

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

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

RANGE CHART

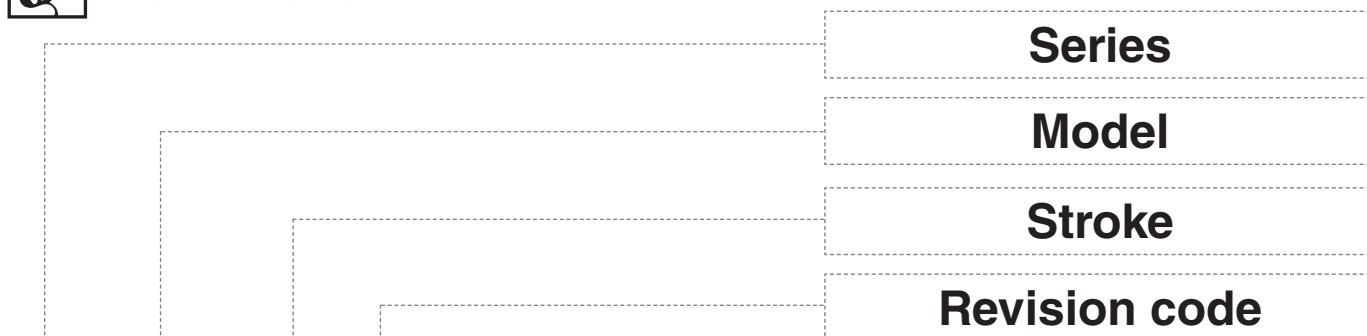
Model	Body Ø		Stroke Cu		Initial force F0		OSAS	USAS	OPAS	SKUDO
	mm	inch	mm	inch	daN	lb				
RF 750	45	1.77	10 - 125	0.39 - 4.92	740	1664	✓	✓	✓	-
RF 1000	50	1.97	13 - 125	0.51 - 4.92	920	2068	✓	✓	✓	-
RF 1200	50	1.97	13 - 125	0.51 - 4.92	1060	2383	✓	✓	✓	-
RF 1500	63	2.48	13 - 125	0.51 - 4.92	1530	3440	✓	✓	✓	-
RF 2400	75	2.95	16 - 125	0.63 - 4.92	2385	5362	✓	✓	✓	-
	95	3.74								
	120	4.72								
	150	5.91								
	150	5.91								
	195	7.68								

RV series

RF



HOW TO ORDER



RF 2400-050-A - N - E

IT Codice cilindro autonomo
EN Self-contained cylinder code
DE Kode des eingeständigen Gdf.
FR Code du cylindre autonome
ES Código del cilindro autónomo
PT Código do cilindro autónomo

IT Collegabile con tubi, cilindro fornito scarico e senza valvola unidirezionale
EN Linkable with hoses, cylinder supplied without pressure and oneway valve
DE Anschlussfähig mit Leitungen, Gdf. geliefert ohne Druck und RückschlagVentil
FR Connectable avec tubes, ressort fourni sans pression ni valve unidirectionelle
ES Connectable con tubos, cilindro suministrado sin presión y sin válvula unidireccional
PT Acompláveis com tubos, cilindro fornecidos sem pressão e sem válvula unidireccional

IT Collegabile EASY MANIFOLD, fornito scarico + guarnizione di collegamento
EN Linkable EASY MANIFOLD, supplied without pressure + connecting seal
DE Anschlussfähig EASY MANIFOLD, geliefert ohne Druck + Verbindungsdichtung
FR Connectable EASY MANIFOLD, fourni sans pression + joint de connexion
ES Connectable EASY MANIFOLD, suministrado sin presión + junta de conexión
PT Acompláveis EASY MANIFOLD, fornecidos sem pressão + vedantes de conexão

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

ACTIVE SAFETY



OSAS



USAS



OPAS

* F_{1i} =

Isothermal end force at 100% Cu

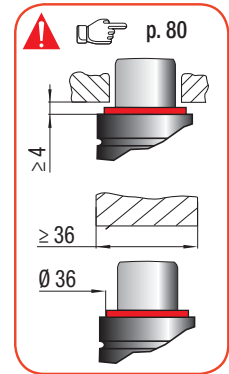
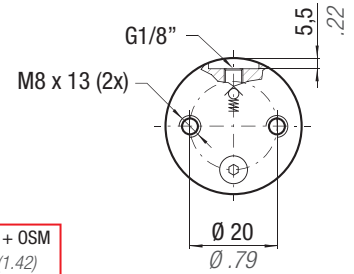
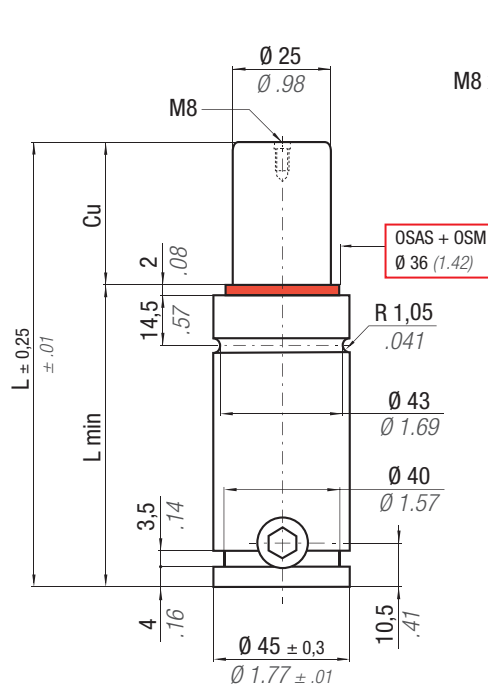


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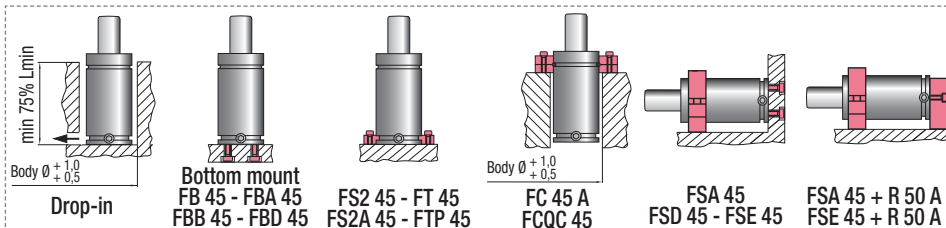
** F_{1p} =

Polytrophic end force at 100% Cu



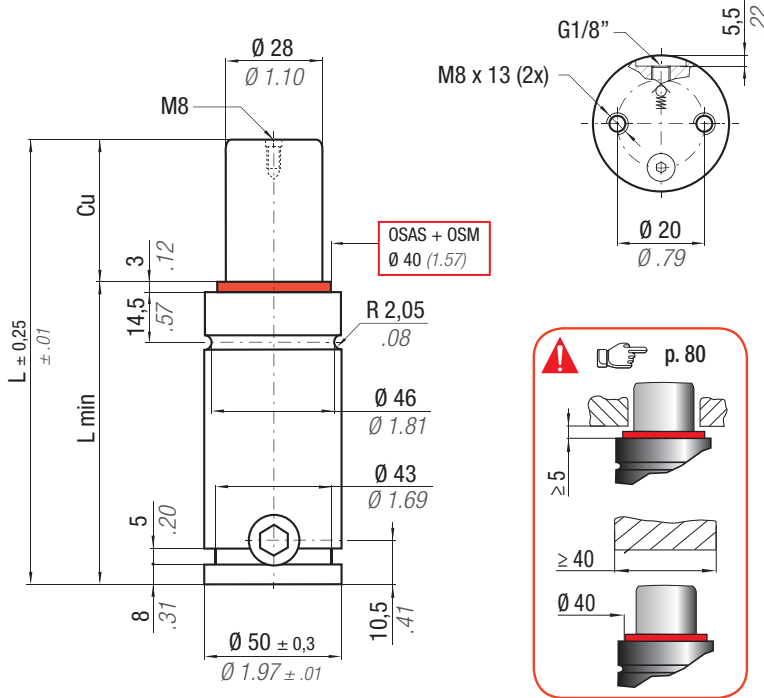
	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4,91 cm ² 0,761 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00750C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RF 750 - 010 - A	10	0.39	62	2.44	52	2.05	740 ± 5%	1664	1091	2452	1298	2918	18,0	1.10	0,47	1.04	✓
RF 750 - 013 - A	13	0.51	68	2.68	55	2.17			1125	2530	1354	3044	21,0	1.28	0,48	1.06	✓
RF 750 - 016 - A	16	0.63	74	2.91	58	2.28			1151	2587	1395	3136	25,0	1.53	0,50	1.10	✓
RF 750 - 019 - A	19	0.75	80	3.15	61	2.40			1170	2631	1426	3206	29,0	1.77	0,52	1.15	✓
RF 750 - 025 - A	25	0.98	92	3.62	67	2.64			1198	2694	1471	3307	37,0	2.26	0,56	1.23	✓
RF 750 - 032 - A	32	1.26	106	4.17	74	2.91			1220	2742	1506	3386	46,0	2.81	0,61	1.34	✓
RF 750 - 038 - A	38	1.50	118	4.65	80	3.15			1232	2771	1527	3433	53,0	3.23	0,65	1.43	✓
RF 750 - 050 - A	50	1.97	142	5.59	92	3.62			1250	2810	1556	3498	68,0	4.15	0,72	1.59	✓
RF 750 - 063 - A	63	2.48	168	6.61	105	4.13			1262	2838	1577	3545	85,0	5.19	0,81	1.79	✓
RF 750 - 075 - A	75	2.95	192	7.56	117	4.61			1270	2855	1590	3574	100,0	6.10	0,88	1.94	✓
RF 750 - 080 - A	80	3.15	202	7.95	122	4.80	1273	2861	1594	3583	107,0	6.53	0,92	2.03	✓		
RF 750 - 100 - A	100	3.94	242	9.53	142	5.59	1281	2879	1607	3613	132,0	8.05	1,04	2.29	✓		
RF 750 - 125 - A	125	4.92	292	11.50	167	6.57	1287	2894	1618	3637	164,0	10.00	1,21	2.67	✓		



HOW TO ORDER

(10 pcs) RF 750-050-A
(10 pcs) RF 750-050-A-N



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

ACTIVE SAFETY



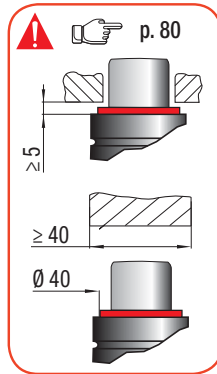
OSAS



USAS



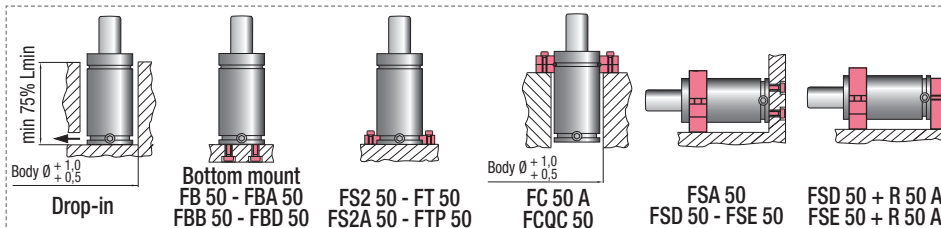
OPAS



RF

	°F 32 - 176	°C 0 - 80	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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C
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CODE	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	✓
RF 1000 - 013 - A	13	0.51	74	2.91	61	2.40	920 2068 ± 5% 150 bar 2175 psi + 20 °C +68 °F		1349	3033	1599	3595	29,0	1.77	0,65	1.43	✓
RF 1000 - 016 - A	16	0.63	80	3.15	64	2.52			1386	3117	1658	3727	34,0	2.07	0,68	1.50	✓
RF 1000 - 019 - A	19	0.75	86	3.39	67	2.64			1416	3183	1705	3833	39,0	2.38	0,70	1.54	✓
RF 1000 - 025 - A	25	0.98	98	3.86	73	2.87			1460	3282	1775	3990	48,0	2.93	0,75	1.65	✓
RF 1000 - 032 - A	32	1.26	112	4.41	80	3.15			1495	3361	1832	4118	59,0	3.60	0,81	1.79	✓
RF 1000 - 038 - A	38	1.50	124	4.88	86	3.39			1517	3410	1868	4199	69,0	4.21	0,85	1.87	✓
RF 1000 - 050 - A	50	1.97	148	5.83	98	3.86			1548	3479	1919	4314	88,0	5.37	0,95	2.09	✓
RF 1000 - 063 - A	63	2.48	174	6.85	111	4.37			1570	3528	1955	4395	108,0	6.59	1,05	2.31	✓
RF 1000 - 075 - A	75	2.95	198	7.80	123	4.84			1584	3560	1978	4447	127,0	7.75	1,15	2.54	✓
RF 1000 - 080 - A	80	3.15	208	8.19	128	5.04			1589	3571	1986	4465	135,0	8.24	1,19	2.62	✓
RF 1000 - 100 - A	100	3.94	248	9.76	148	5.83			1603	3604	2011	4521	166,0	10.13	1,35	2.98	✓
RF 1000 - 125 - A	125	4.92	298	11.73	173	6.81			1616	3632	2031	4566	205,0	12.51	1,55	3.42	✓



HOW TO ORDER

(10 pcs) RF 1000-050-A
(10 pcs) RF 1000-050-A-N

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

ACTIVE SAFETY



OSAS



USAS



OPAS

* $F_{1i} =$

Isothermal end force at 100% Cu

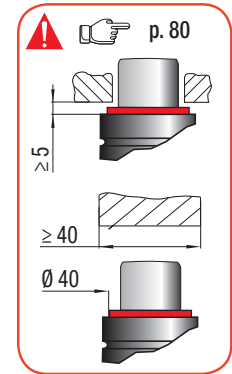
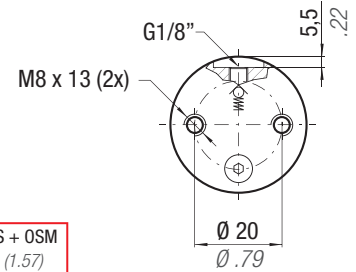
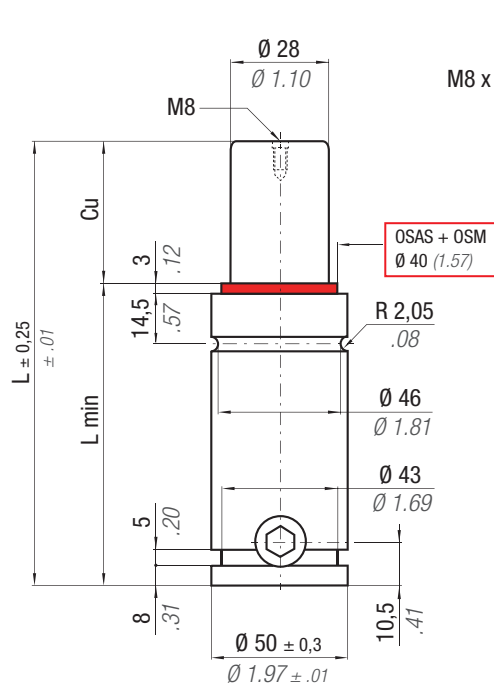


p. 16



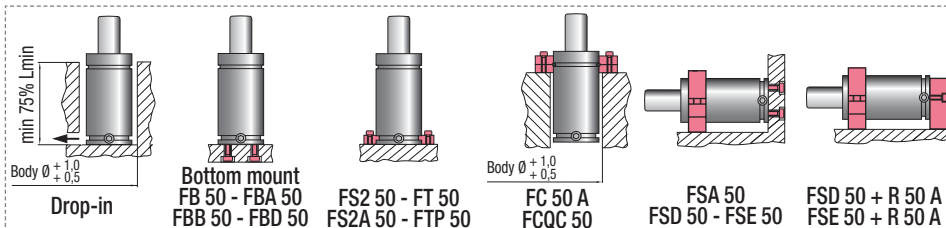
** $F_{1p} =$

Polytrophic end force at 100% Cu



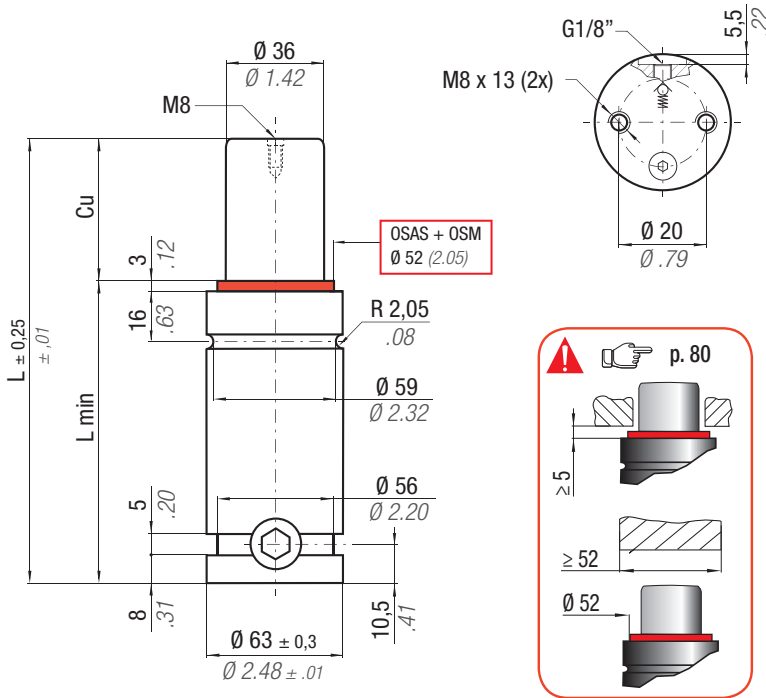
	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 170 bar 2465 psi	P min 20 bar 290 psi	S 6,15 cm ² 0,953 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RF 1200 - 013 - A	13	0.51	74	2.91	61	2.40	1060 ± 5% 170 bar 2465 psi + 20 °C +68 °F	2383	1553	3490	1802	4052	29,0	1.77	0,65	1.43	✓
RF 1200 - 016 - A	16	0.63	80	3.15	64	2.52			1597	3591	1869	4202	34,0	2.07	0,68	1.50	✓
RF 1200 - 019 - A	19	0.75	86	3.39	67	2.64			1633	3671	1922	4321	39,0	2.38	0,70	1.54	✓
RF 1200 - 025 - A	25	0.98	98	3.86	73	2.87			1685	3789	2001	4500	48,0	2.93	0,75	1.65	✓
RF 1200 - 032 - A	32	1.26	112	4.41	80	3.15			1728	3884	2066	4644	59,0	3.60	0,81	1.79	✓
RF 1200 - 038 - A	38	1.50	124	4.88	86	3.39			1754	3943	2106	4735	69,0	4.21	0,85	1.87	✓
RF 1200 - 050 - A	50	1.97	148	5.83	98	3.86			1791	4026	2163	4863	88,0	5.37	0,95	2.09	✓
RF 1200 - 063 - A	63	2.48	174	6.85	111	4.37			1817	4085	2204	4954	108,0	6.59	1,05	2.31	✓
RF 1200 - 075 - A	75	2.95	198	7.80	123	4.84			1834	4124	2230	5013	127,0	7.75	1,15	2.54	✓
RF 1200 - 080 - A	80	3.15	208	8.19	128	5.04			1840	4137	2239	5033	135,0	8.24	1,19	2.62	✓
RF 1200 - 100 - A	100	3.94	248	9.76	148	5.83			1858	4177	2267	5096	166,0	10.13	1,35	2.98	✓
RF 1200 - 125 - A	125	4.92	298	11.73	173	6.81			1873	4210	2290	5148	205,0	12.51	1,55	3.42	✓



HOW TO ORDER

(10 pcs) RF 1200-050-A
(10 pcs) RF 1200-050-A-N



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



ACTIVE SAFETY



OSAS



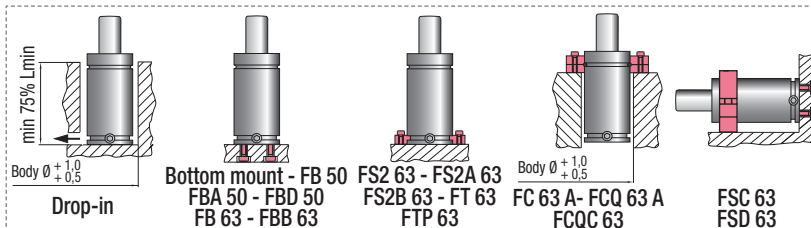
USAS



OPAS

RF

CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		Maintenance kit		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	
RF 1500 - 013 - A	13	0.51	80	3.15	67	2.64	1530 ± 5% 150 bar 2175 psi + 20 °C +68 °F	3440	2152	4838	2521	5667	53,0	3.23	1,15	2.54	✓
RF 1500 - 016 - A	16	0.63	86	3.39	70	2.76			2213	4975	2616	5881	61,0	3.72	1,18	2.60	✓
RF 1500 - 019 - A	19	0.75	92	3.62	73	2.87			2262	5085	2693	6054	69,0	4.21	1,22	2.69	✓
RF 1500 - 025 - A	25	0.98	104	4.09	79	3.11			2336	5252	2811	6319	85,0	5.19	1,29	2.84	✓
RF 1500 - 032 - A	32	1.26	118	4.65	86	3.39			2397	5389	2908	6537	103,0	6.28	1,37	3.02	✓
RF 1500 - 038 - A	38	1.50	130	5.12	92	3.62			2435	5475	2971	6679	119,0	7.26	1,44	3.17	✓
RF 1500 - 050 - A	50	1.97	154	6.06	104	4.09			2490	5597	3059	6877	151,0	9.21	1,58	3.48	✓
RF 1500 - 063 - A	63	2.48	180	7.09	117	4.61			2529	5685	3123	7021	186,0	11.35	1,74	3.84	✓
RF 1500 - 075 - A	75	2.95	204	8.03	129	5.08			2555	5743	3165	7115	217,0	13.24	1,88	4.14	✓
RF 1500 - 080 - A	80	3.15	214	8.43	134	5.28			2563	5763	3180	7149	231,0	14.09	1,94	4.28	✓
RF 1500 - 100 - A	100	3.94	254	10.00	154	6.06			2590	5824	3224	7248	284,0	17.32	2,18	4.81	✓
RF 1500 - 125 - A	125	4.92	304	11.97	179	7.05			2613	5875	3262	7333	350,0	21.35	2,47	5.45	✓



HOW TO ORDER

(10 pcs) RF 1500-050-A
 (10 pcs) RF 1500-050-A-N

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

ACTIVE SAFETY

easyl
MANIFOLD

p. 211



OSAS



USAS



OPAS

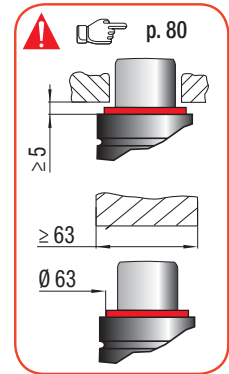
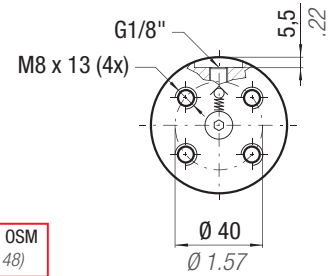
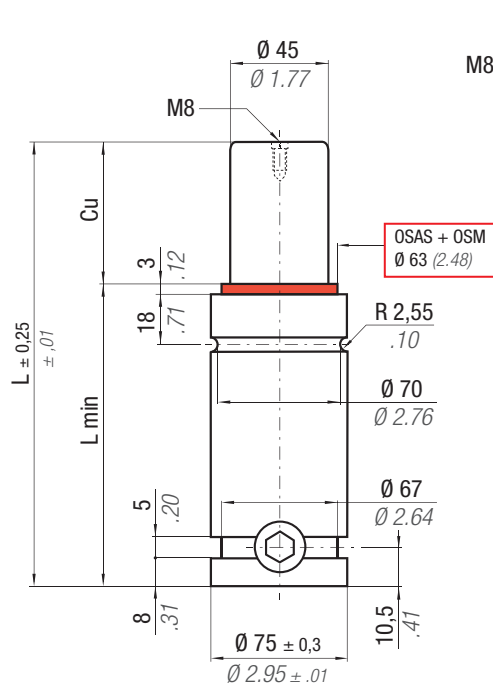
* $F_{1i} =$

Isothermal end force at 100% Cu

p. 16

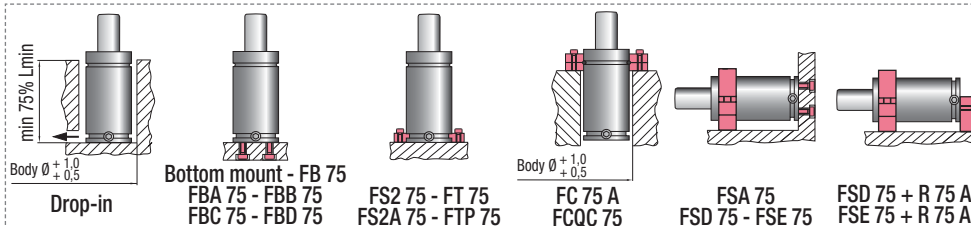
** $F_{1p} =$

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 15,90 cm ² 2,465 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV02400C
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CODE	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					
RF 2400 - 016 - A	16	0.63	87	3.43	71	2.80	2385 ± 5% 150 bar 2175 psi + 20 °C +68 °F	5362	3493	7852	4142	9312	93,0	5.67	1,68	3.70	✓		
RF 2400 - 019 - A	19	0.75	93	3.66	74	2.91			3574	8035	4271	9602	105,0	6.41	1,73	3.81	✓		
RF 2400 - 025 - A	25	0.98	105	4.13	80	3.15			3698	8313	4468	10044	129,0	7.87	1,82	4.01	✓		
RF 2400 - 032 - A	32	1.26	119	4.69	87	3.43			3800	8542	4632	10413	157,0	9.58	1,93	4.25	✓		
RF 2400 - 038 - A	38	1.50	131	5.16	93	3.66			3864	8687	4737	10649	181,0	11.04	2,03	4.48	✓		
RF 2400 - 050 - A	50	1.97	155	6.10	105	4.13			3956	8893	4887	10986	230,0	14.03	2,21	4.87	✓		
RF 2400 - 063 - A	63	2.48	181	7.13	118	4.65			4022	9042	4996	11231	282,0	17.20	2,42	5.34	✓		
RF 2400 - 075 - A	75	2.95	205	8.07	130	5.12			4066	9140	5068	11393	330,0	20.13	2,61	5.75	✓		
RF 2400 - 080 - A	80	3.15	215	8.46	135	5.31			4081	9174	5093	11450	350,0	21.35	2,69	5.93	✓		
RF 2400 - 100 - A	100	3.94	255	10.04	155	6.10			4127	9278	5169	11620	431,0	26.29	3,00	6.61	✓		
RF 2400 - 125 - A	125	4.92	305	12.01	180	7.09	4166	9365	5234	11767	532,0	32.45	3,40	7.50	✓				



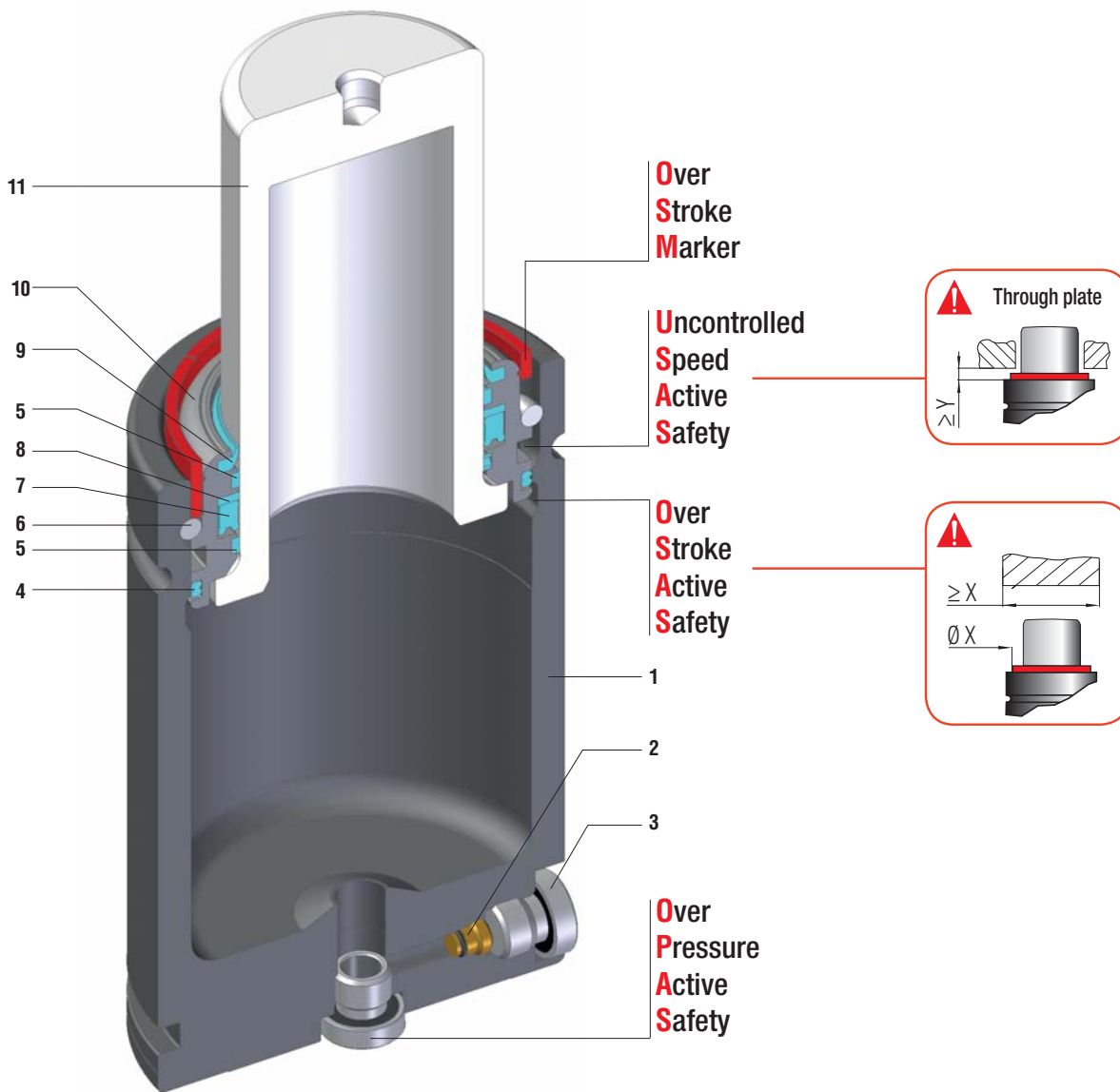
HOW TO ORDER

(10 pcs) RF 2400-050-A
(10 pcs) RF 2400-050-A-N



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Minima altezza, massima forza, collegabili G1/8 - Minimum height, maximum force, hose cylinders with G1/8 charging port - Minimale Höhe, maximale Kraft, Gdf. mit G1/8 Öffnung verbindbar - Hauteur minimale, force maximale, cylindres raccordés avec trou G1/8 gaz - Mínima altura, máxima fuerza, cilindros conectados con agujero G1/8 gas - Altura mínima, força máxima, cilindros conectados com furo G1/8 gás

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

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

RANGE CHART

Model	Body Ø		Stroke Cu		Initial force F0					
	mm	inch	mm	inch	daN	lb	OSAS	USAS	OPAS	SKUDO
RG 750	45	1.77	10 - 125	0.39 - 4.92	740	1664	✓	✓	✓	-
RG 1000	50	1.97	10 - 125	0.39 - 4.92	920	2068	✓	✓	✓	-
RG 1500	63	2.48	10 - 125	0.39 - 4.92	1530	3440	✓	✓	✓	-
RG 2400	75	2.95	10 - 125	0.39 - 4.92	2385	5362	✓	✓	✓	-
RG 4200	95	3.74	16 - 125	0.63 - 4.92	4240	9532	✓	✓	✓	-
RG 6600	120	4.72	16 - 125	0.63 - 4.92	6630	14905	✓	✓	✓	-

RG



HOW TO ORDER



RG 2400-050-A - N - E

- IT** Codice cilindro autonomo
- EN** Self-contained cylinder code
- DE** Kode des eingeständigen Gdf.
- FR** Code du cylindre autonome
- ES** Código del cilindro autónomo
- PT** Código do cilindro autónomo

- IT** Collegabile con tubi, cilindro fornito scarico e senza valvola unidirezionale
- EN** Linkable with hoses, cylinder supplied without pressure and oneway valve
- DE** Anschlussfähig mit Leitungen, Gdf. geliefert ohne Druck und RückschlagVentil
- FR** Connectable avec tubes, ressort fourni sans pression ni valve unidirectionelle
- ES** Connectable con tubos, cilindro suministrado sin presión y sin válvula unidireccional
- PT** Acompláveis com tubos, cilindro fornecidos sem pressão e sem válvula unidireccional

- IT** Collegabile EASY MANIFOLD, fornito scarico + guarnizione di collegamento
- EN** Linkable EASY MANIFOLD, supplied without pressure + connecting seal
- DE** Anschlussfähig EASY MANIFOLD, geliefert ohne Druck + Verbindungsdichtung
- FR** Connectable EASY MANIFOLD, fourni sans pression + joint de connexion
- ES** Connectable EASY MANIFOLD, suministrado sin presión + junta de conexión
- PT** Acompláveis EASY MANIFOLD, fornecidos sem pressão + vedantes de conexão



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

ACTIVE SAFETY



OSAS

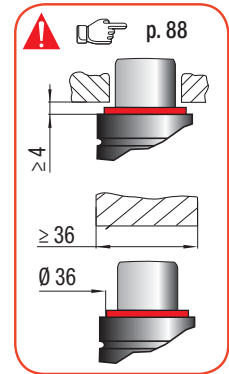
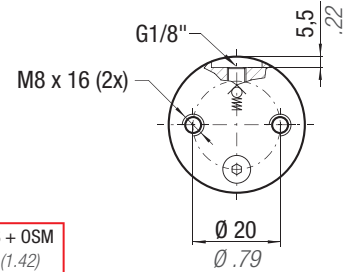
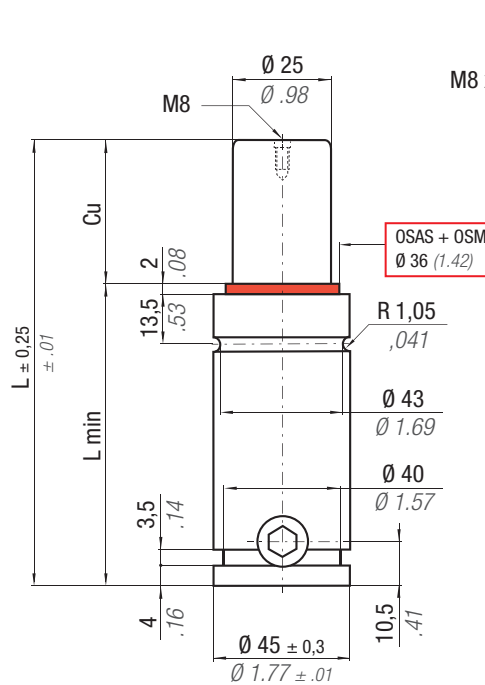


USAS



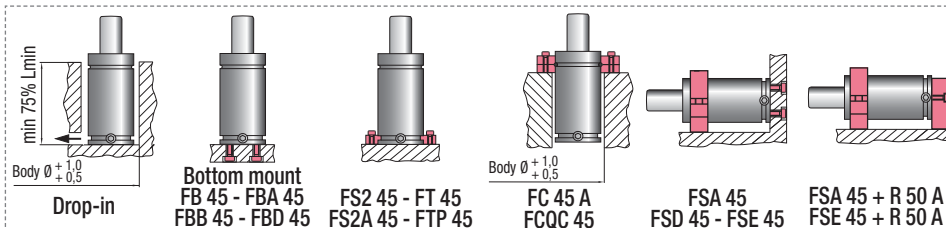
OPAS

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



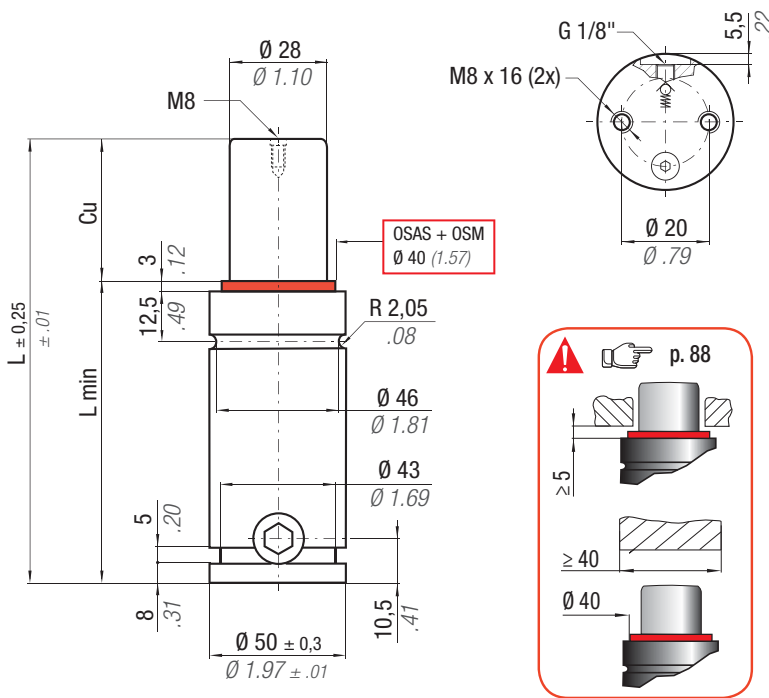
	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4,91 cm ² 0,761 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00750C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RG 750 - 010 - A	10	0.39	67	2.64	57	2.24	740 ± 5%	1664	1018	2288	1184	2662	21,0	1.28	0,50	1.10	✓
RG 750 - 013 - A	13	0.51	73	2.87	60	2.36			1056	2373	1243	2795	24,0	1.46	0,52	1.15	✓
RG 750 - 016 - A	16	0.63	79	3.11	63	2.48			1085	2439	1289	2899	28,0	1.71	0,54	1.19	✓
RG 750 - 019 - A	19	0.75	85	3.35	66	2.60			1108	2492	1326	2982	32,0	1.95	0,56	1.23	✓
RG 750 - 025 - A	25	0.98	97	3.82	72	2.83			1143	2570	1382	3107	40,0	2.44	0,60	1.32	✓
RG 750 - 032 - A	32	1.26	111	4.37	79	3.11			1172	2634	1428	3210	49,0	2.99	0,64	1.41	✓
RG 750 - 038 - A	38	1.50	123	4.84	85	3.35			1189	2674	1457	3275	56,0	3.42	0,68	1.50	✓
RG 750 - 050 - A	50	1.97	147	5.79	97	3.82			1214	2730	1497	3366	72,0	4.39	0,76	1.68	✓
RG 750 - 063 - A	63	2.48	173	6.81	110	4.33			1232	2770	1527	3432	88,0	5.37	0,84	1.85	✓
RG 750 - 075 - A	75	2.95	197	7.76	122	4.80			1244	2796	1546	3475	103,0	6.28	0,92	2.03	✓
RG 750 - 080 - A	80	3.15	207	8.15	127	5.00			1248	2805	1552	3490	110,0	6.71	0,95	2.09	✓
RG 750 - 100 - A	100	3.94	247	9.72	147	5.79			1260	2832	1573	3535	135,0	8.24	1,08	2.38	✓
RG 750 - 125 - A	125	4.92	297	11.69	172	6.77			1270	2855	1589	3573	167,0	10.19	1,24	2.73	✓



HOW TO ORDER

(10 pcs) RG 750-050-A
(10 pcs) RG 750-050-A-N



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

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

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



ACTIVE SAFETY



OSAS



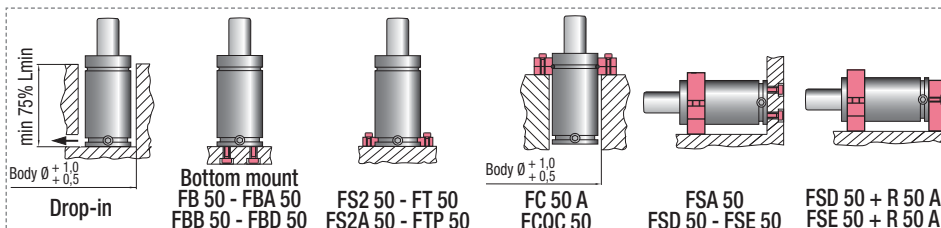
USAS



OPAS

RG

CODE	Cu	L	L min	F ₀		F _{1i} *		F _{1p} **		V ₀		Maintenance kit		
				Initial force	End force	End force	End force	cm ³	in ³	~Kg	~lb			
RG 1000 - 010 - A	10	72	62	920 ± 5%	2068	1274	2863	1481	3329	26,0	1.59	0,67	1,48	✓
RG 1000 - 013 - A	13	78	65			1323	2973	1557	3500	31,0	1.89	0,70	1,54	✓
RG 1000 - 016 - A	16	84	68			1361	3059	1617	3635	35,0	2.14	0,72	1,59	✓
RG 1000 - 019 - A	19	90	71			1391	3128	1666	3745	40,0	2.44	0,75	1,65	✓
RG 1000 - 025 - A	25	102	77			1437	3232	1739	3909	50,0	3.05	0,79	1,74	✓
RG 1000 - 032 - A	32	116	84			1475	3316	1800	4047	61,0	3.72	0,85	1,87	✓
RG 1000 - 038 - A	38	128	90			1499	3369	1838	4132	70,0	4.27	0,90	1,98	✓
RG 1000 - 050 - A	50	152	102			1532	3445	1893	4256	89,0	5.43	0,99	2,18	✓
RG 1000 - 063 - A	63	178	115			1556	3499	1933	4346	109,0	6.65	1,10	2,43	✓
RG 1000 - 075 - A	75	202	127			1572	3534	1959	4404	128,0	7.81	1,19	2,62	✓
RG 1000 - 080 - A	80	212	132	1578	3546	1968	4424	136,0	8.30	1,23	2,71	✓		
RG 1000 - 100 - A	100	252	152	1594	3584	1995	4485	167,0	10.19	1,39	3,06	✓		
RG 1000 - 125 - A	125	302	177	1608	3615	2018	4537	207,0	12.63	1,60	3,53	✓		



HOW TO ORDER

(10 pcs) RG 1000-050-A
(10 pcs) RG 1000-050-A-N



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

ACTIVE SAFETY

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



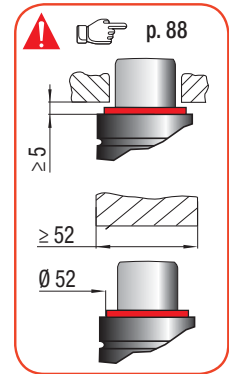
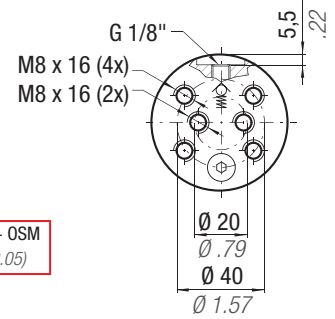
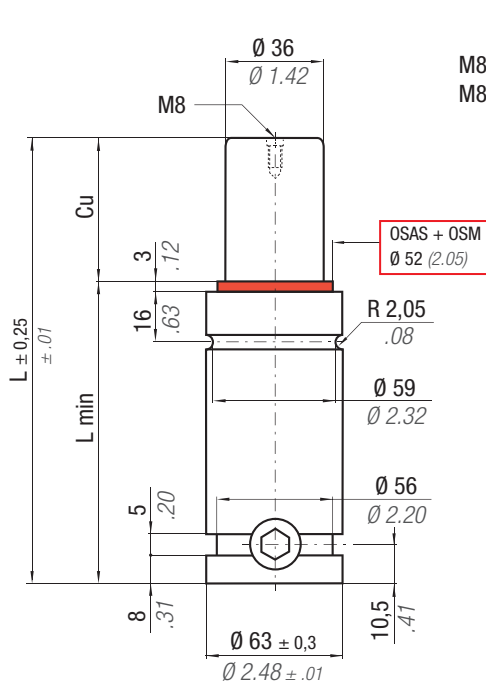
OSAS



USAS

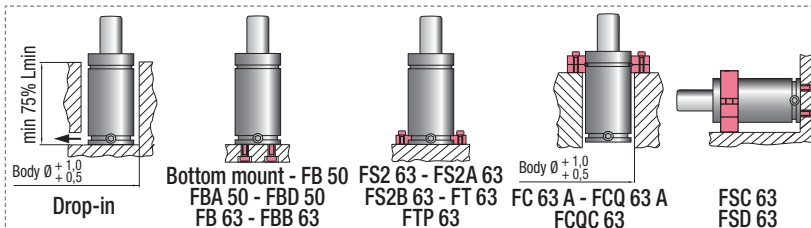


OPAS



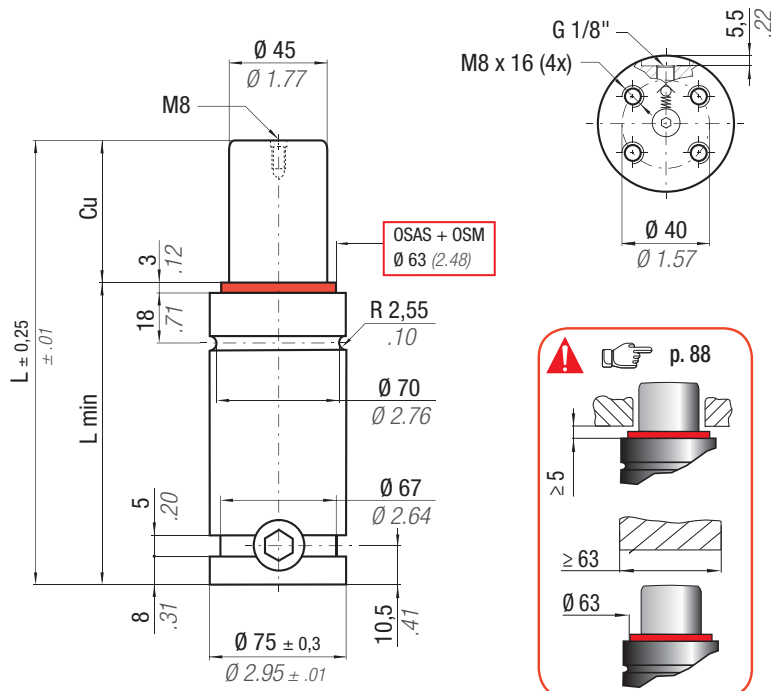
	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 10,18 cm ² 1.578 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01500C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RG 1500 - 010 - A	10	0.39	72	2.83	62	2.44	1530 ± 5%	3440	2071	4655	2395	5384	45,0	2,75	1,04	2,29	✓
RG 1500 - 013 - A	13	0.51	78	3.07	65	2.56			2149	4830	2515	5654	53,0	3,23	1,08	2,38	✓
RG 1500 - 016 - A	16	0.63	84	3.31	68	2.68			2210	4967	2611	5870	61,0	3,72	1,11	2,45	✓
RG 1500 - 019 - A	19	0.75	90	3.54	71	2.80			2259	5078	2688	6043	69,0	4,21	1,15	2,54	✓
RG 1500 - 025 - A	25	0.98	102	4.02	77	3.03			2333	5245	2806	6308	85,0	5,19	1,22	2,69	✓
RG 1500 - 032 - A	32	1.26	116	4.57	84	3.31			2394	5382	2904	6528	104,0	6,34	1,30	2,87	✓
RG 1500 - 038 - A	38	1.50	128	5.04	90	3.54			2433	5469	2966	6668	119,0	7,26	1,37	3,02	✓
RG 1500 - 050 - A	50	1.97	152	5.98	102	4.02			2488	5592	3055	6868	151,0	9,21	1,51	3,33	✓
RG 1500 - 063 - A	63	2.48	178	7.01	115	4.53			2527	5681	3120	7014	186,0	11,35	1,67	3,68	✓
RG 1500 - 075 - A	75	2.95	202	7.95	127	5.00			2553	5739	3163	7111	218,0	13,30	1,81	3,99	✓
RG 1500 - 080 - A	80	3.15	212	8.35	132	5.20	2562	5759	3177	7142	231,0	14,09	1,87	4,12	✓		
RG 1500 - 100 - A	100	3.94	252	9.92	152	5.98	2589	5821	3222	7243	284,0	17,32	2,11	4,65	✓		
RG 1500 - 125 - A	125	4.92	302	11.89	177	6.97	2612	5872	3260	7329	350,0	21,35	2,40	5,29	✓		



HOW TO ORDER

(10 pcs) RG 1500-050-A
(10 pcs) RG 1500-050-A-N



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



easu MANIFOLD READY p. 211

ACTIVE SAFETY

* F_{1i} =

Isothermal end force at 100% Cu

p. 16

** F_{1p} =

Polytropic end force at 100% Cu



OSAS



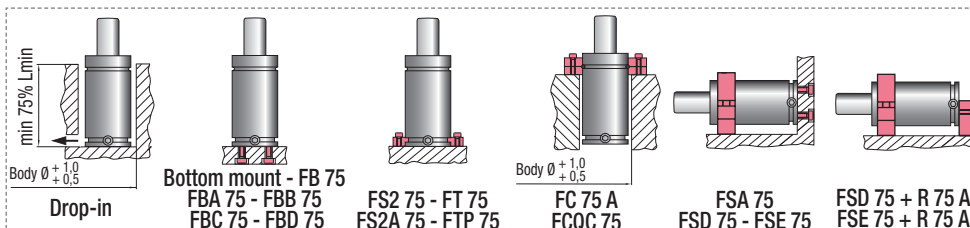
USAS



OPAS

RG

CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		Maintenance kit		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	
RG 2400 - 010 - A	10	0.39	79	3.11	69	2.72	2385 ± 5% 5362	150 bar 2175 psi	3125	7026	3574	8035	78,0	4.76	1,65	3.64	✓
RG 2400 - 013 - A	13	0.51	85	3.35	72	2.83			3249	7305	3763	8460	90,0	5.49	1,70	3.75	✓
RG 2400 - 016 - A	16	0.63	91	3.58	75	2.95			3350	7532	3920	8813	103,0	6.28	1,75	3.86	✓
RG 2400 - 019 - A	19	0.75	97	3.82	78	3.07			3434	7721	4051	9107	115,0	7.02	1,79	3.95	✓
RG 2400 - 025 - A	25	0.98	109	4.29	84	3.31			3566	8016	4258	9572	139,0	8.48	1,89	4.17	✓
RG 2400 - 032 - A	32	1.26	123	4.84	91	3.58			3678	8268	4436	9973	167,0	10.19	1,99	4.39	✓
RG 2400 - 038 - A	38	1.50	135	5.31	97	3.82			3751	8433	4554	10238	191,0	11.65	2,09	4.61	✓
RG 2400 - 050 - A	50	1.97	159	6.26	109	4.29			3858	8672	4726	10624	239,0	14.58	2,28	5.03	✓
RG 2400 - 063 - A	63	2.48	185	7.28	122	4.80			3937	8850	4855	10914	292,0	17.81	2,49	5.49	✓
RG 2400 - 075 - A	75	2.95	209	8.23	134	5.28			3989	8969	4942	11110	340,0	20.74	2,68	5.91	✓
RG 2400 - 080 - A	80	3.15	219	8.62	139	5.47	4008	9010	4972	11178	360,1	21.97	2,75	6.06	✓		
RG 2400 - 100 - A	100	3.94	259	10.20	159	6.26	4065	9138	5066	11389	441,0	26.90	3,07	6.77	✓		
RG 2400 - 125 - A	125	4.92	309	12.17	184	7.24	4113	9247	5147	11571	541,0	33.00	3,46	7.63	✓		



HOW TO ORDER

(10 pcs) RG2400-050-A
(10 pcs) RG 2400-050-A-N



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

ACTIVE SAFETY

easu MANIFOLD p. 211



OSAS

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

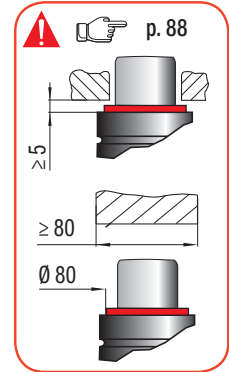
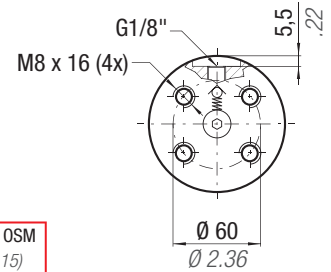
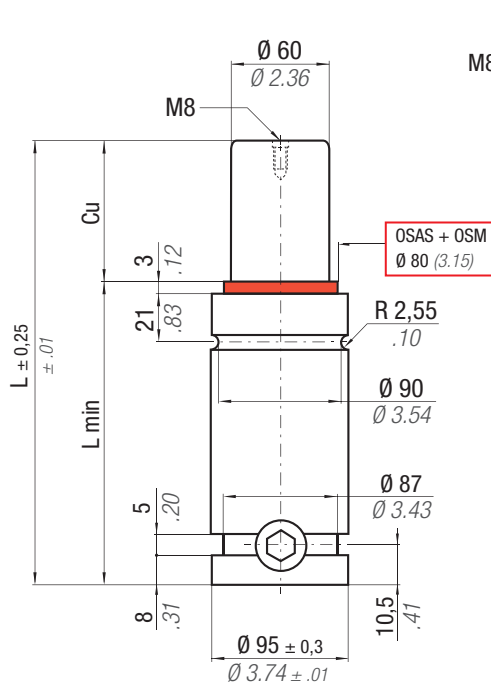
** F_{1p} = Polytrophic end force at 100% Cu



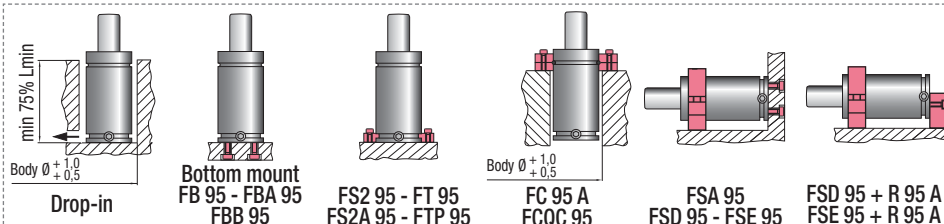
USAS



OPAS

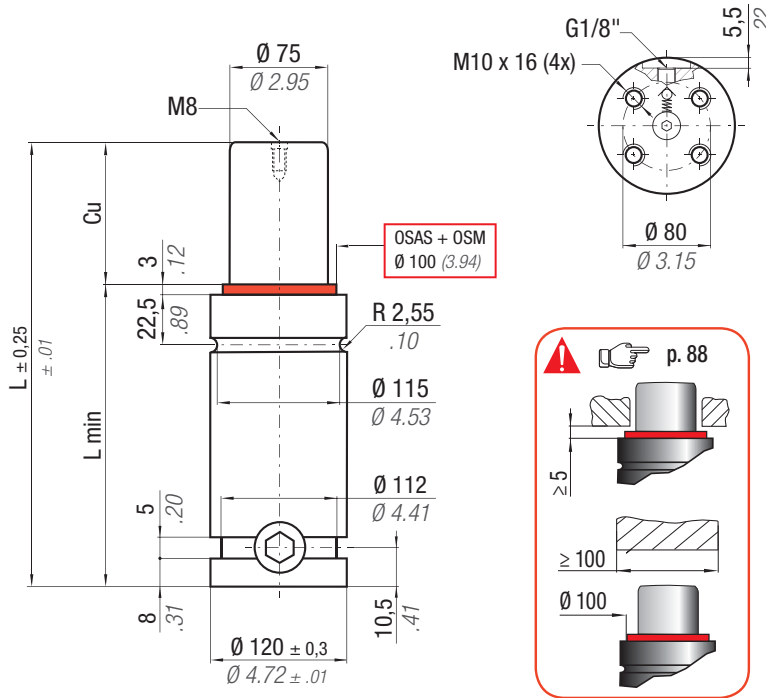


CODE	N ₂	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 28,27 cm ² 4.382 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV04200C	PED					
											2014/68/EU	2014/68/EU				
RG 4200 - 016 - A	16	0.63	94	3.70	78	3.07	4240 ± 5% 150 bar 2175 psi + 20 °C +68 °F	6073	13653	7150	16074	174,0	10.61	2,98	6.57	✓
RG 4200 - 019 - A	19	0.75	100	3.94	81	3.19		6238	14024	7409	16656	194,0	11.83	3,05	6.72	✓
RG 4200 - 025 - A	25	0.98	112	4.41	87	3.43		6499	14609	7823	17587	235,0	14.34	3,20	7.05	✓
RG 4200 - 032 - A	32	1.26	126	4.96	94	3.70		6723	15113	8183	18396	282,0	17.20	3,38	7.45	✓
RG 4200 - 038 - A	38	1.50	138	5.43	100	3.94		6870	15443	8421	18931	323,0	19.70	3,52	7.76	✓
RG 4200 - 050 - A	50	1.97	162	6.38	112	4.41		7085	15928	8774	19725	404,0	24.64	3,82	8.42	✓
RG 4200 - 063 - A	63	2.48	188	7.40	125	4.92		7246	16289	9039	20320	492,0	30.01	4,15	9.15	✓
RG 4200 - 075 - A	75	2.95	212	8.35	137	5.39		7354	16533	9219	20725	573,0	34.95	4,45	9.81	✓
RG 4200 - 080 - A	80	3.15	222	8.74	142	5.59		7391	16616	9281	20865	606,0	36.97	4,57	10.08	✓
RG 4200 - 100 - A	100	3.94	262	10.31	162	6.38		7509	16880	9477	21305	742,0	45.26	5,07	11.18	✓
RG 4200 - 125 - A	125	4.92	312	12.28	187	7.36		7609	17105	9645	21683	911,0	55.57	5,69	12.54	✓



HOW TO ORDER

(10 pcs) RG 4200-050-A
(10 pcs) RG 4200-050-A-N



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



easu MANIFOLD p. 211

ACTIVE SAFETY

* F_{1i} =

Isothermal end force at 100% Cu

p. 16

** F_{1p} =

Polytropic end force at 100% Cu



OSAS



USAS

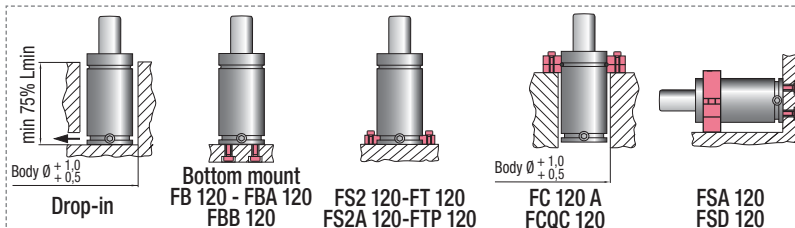


OPAS

RG

	$^{\circ}\text{F}$ 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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV06600C
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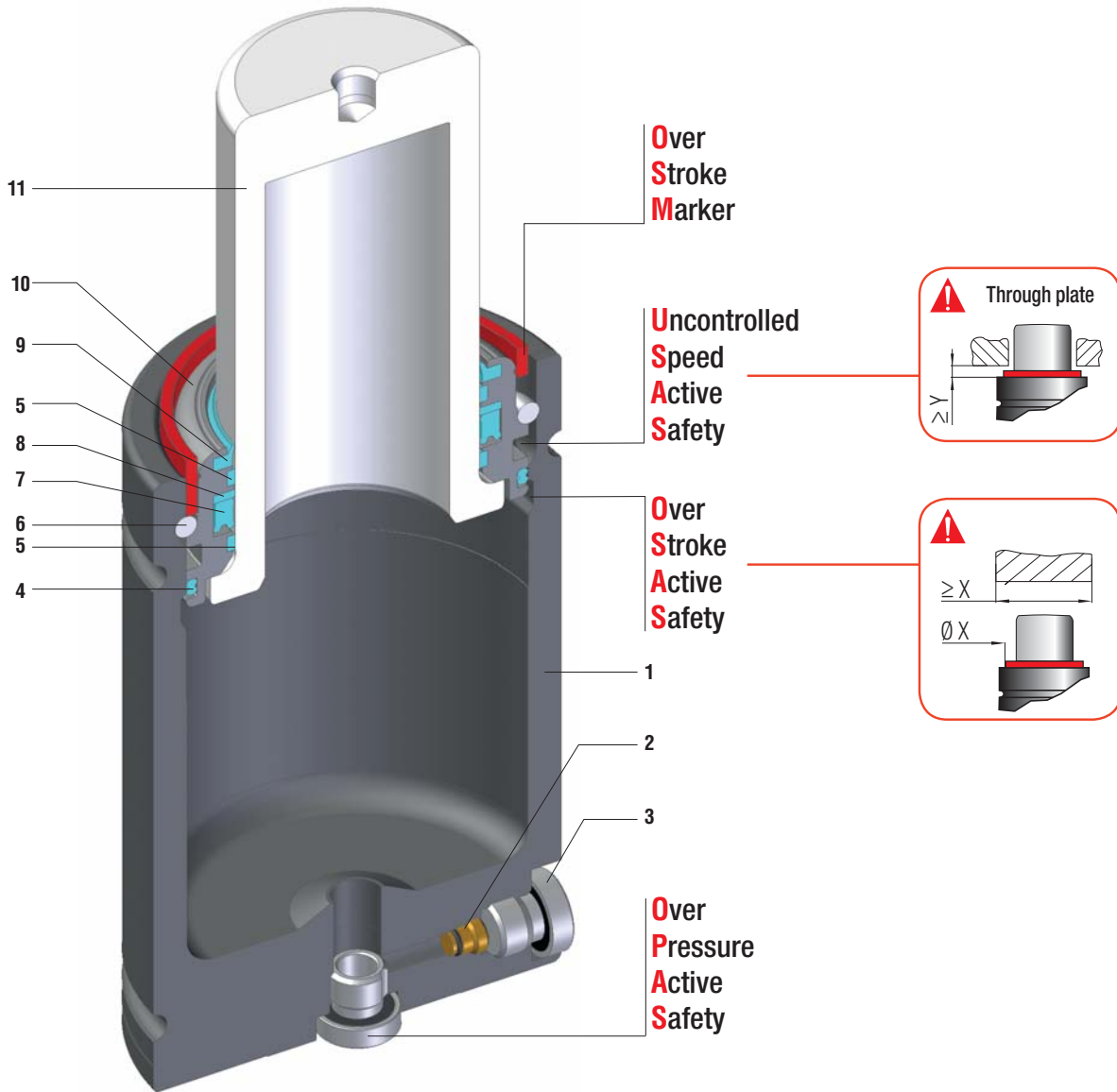
CODE	Cu		L		L min		F ₀ Initial force		F _{1i} * End force		F _{1p} ** End force		V ₀		PED 2014/68/EU		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	
RG 6600 - 016 - A	16	0.63	104	4.09	88	3.46	6630 ± 5% 14904 150 bar 2175 psi		9032	20306	10464	23524	309,0	18.85	5,40	11.90	✓
RG 6600 - 019 - A	19	0.75	110	4.33	91	3.58			9281	20864	10847	24385	341,0	20.80	5,52	12.17	✓
RG 6600 - 025 - A	25	0.98	122	4.80	97	3.82			9684	21771	11478	25804	405,0	24.71	5,76	12.70	✓
RG 6600 - 032 - A	32	1.26	136	5.35	104	4.09			10044	22579	12047	27083	479,0	29.22	6,04	13.32	✓
RG 6600 - 038 - A	38	1.50	148	5.83	110	4.33			10286	23124	12435	27955	544,0	33.18	6,28	13.85	✓
RG 6600 - 050 - A	50	1.97	172	6.77	122	4.80			10652	23946	13025	29281	672,0	40.99	6,76	14.90	✓
RG 6600 - 063 - A	63	2.48	198	7.80	135	5.31			10932	24577	13483	30311	811,0	49.47	7,28	16.05	✓
RG 6600 - 075 - A	75	2.95	222	8.74	147	5.79			11125	25011	13800	31024	939,0	57.28	7,75	17.09	✓
RG 6600 - 080 - A	80	3.15	232	9.13	152	5.98			11193	25162	13910	31271	992,0	60.51	7,95	17.53	✓
RG 6600 - 100 - A	100	3.94	272	10.71	172	6.77			11407	25643	14264	32067	1206,0	73.57	8,75	19.29	✓
RG 6600 - 125 - A	125	4.92	322	12.68	197	7.76	11593	26061	14574	32764	1473,0	89.85	9,75	21.50	✓		



HOW TO ORDER

(10 pcs) RG 6600-050-A
(10 pcs) RG 6600-050-A-N

Mazda	Nissan	PSA
Toyota		



Minima altezza, massima forza, collegabili G1/8 - Minimum height, maximum force, hose cylinders with G1/8 charging port
 Minimale Höhe, maximale Kraft, Gdf. mit G1/8 Öffnung verbindbar - Hauteur minimale, force maximale, cylindres raccordés avec trou G1/8 gaz
 Mínima altura, máxima fuerza, cilindros conectados con agujero G1/8 gas - Altura mínima, força máxima, cilindros conectados com furo G1/8 gás

SEALING	ROD SEAL
DESIGN	BUSH - BODY DESIGN

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

RANGE CHART

Model	Body Ø		Stroke Cu		Initial force F0					
	mm	inch	mm	inch	daN	lb				
RT 350	32	1.26	10 - 125	0.39 - 4.92	360	809	✓	✓	✓	-
RT 500	38	1.50	10 - 125	0.39 - 4.92	470	1057	✓	✓	✓	-
RT 750	45	1.77	10 - 125	0.39 - 4.92	740	1664	✓	✓	✓	-
RT 1000	50	1.97	10 - 125	0.39 - 4.92	920	2068	✓	✓	✓	-
RT 1200	50	1.97	10 - 125	0.39 - 4.92	1060	2383	✓	✓	✓	-
RT 1500	63	2.48	10 - 125	0.39 - 4.92	1530	3440	✓	✓	✓	-
RT 2400	75	2.95	10 - 125	0.39 - 4.92	2385	5362	✓	✓	✓	-
RT 4200	95	3.74	16 - 125	0.63 - 4.92	4240	9532	✓	✓	✓	-
RT 6600	120	4.72	16 - 125	0.63 - 4.92	6630	14905	✓	✓	✓	-
RT 9500	150	5.91	19 - 125	0.75 - 4.92	9540	21447	✓	✓	✓	-

HOW TO ORDER



RT 2400-050-A - N - E

- IT** Codice cilindro autonomo
- EN** Self-contained cylinder code
- DE** Kode des eingeständigen Gdf.
- FR** Code du cylindre autonome
- ES** Código del cilindro autónomo
- PT** Código do cilindro autónomo

- IT** Collegabile con tubi, cilindro fornito scarico e senza valvola unidirezionale
- EN** Linkable with hoses, cylinder supplied without pressure and oneway valve
- DE** Anschlussfähig mit Leitungen, Gdf. geliefert ohne Druck und RückschlagVentil
- FR** Connectable avec tubes, ressort fourni sans pression ni valve unidirectionelle
- ES** Connectable con tubos, cilindro suministrado sin presión y sin válvula unidireccional
- PT** Acompláveis com tubos, cilindro fornecidos sem pressão e sem válvula unidireccional

- IT** Collegabile EASY MANIFOLD, fornito scarico + guarnizione di collegamento
- EN** Linkable EASY MANIFOLD, supplied without pressure + connecting seal
- DE** Anschlussfähig EASY MANIFOLD, geliefert ohne Druck + Verbindungsdichtung
- FR** Connectable EASY MANIFOLD, fourni sans pression + joint de connexion
- ES** Connectable EASY MANIFOLD, suministrado sin presión + junta de conexión
- PT** Acompláveis EASY MANIFOLD, fornecidos sem pressão + vedantes de conexão



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

ACTIVE SAFETY

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



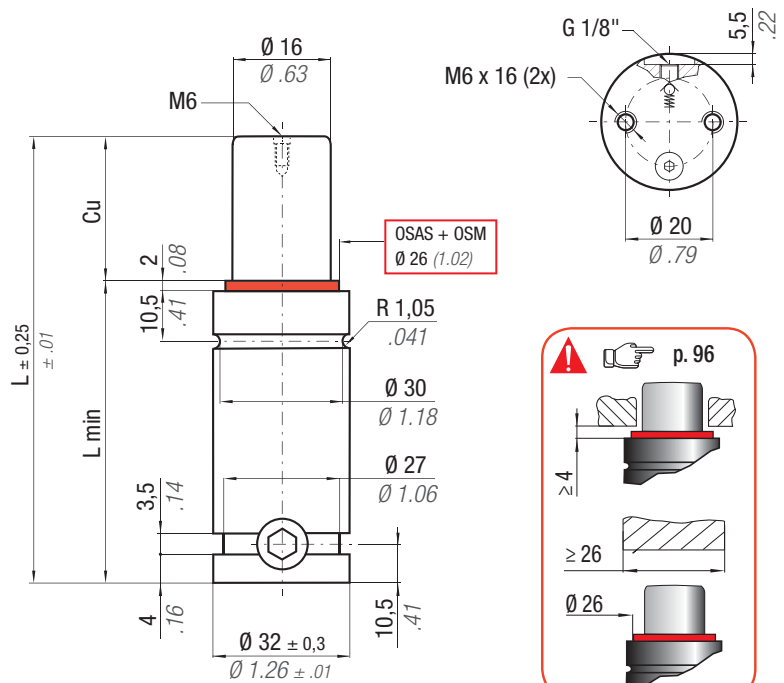
OSAS



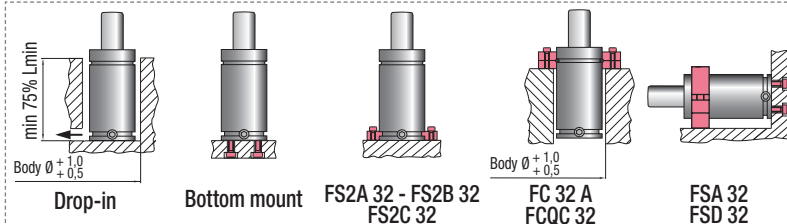
USAS



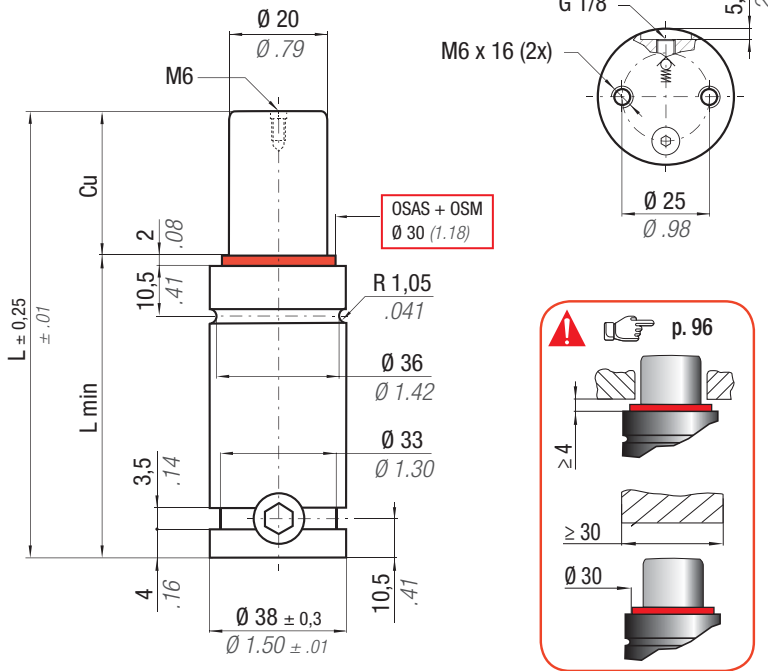
OPAS



CODE	N ₂		ΔP ± 0,33 %/°C	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 2,01 cm ² 0,312 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00350C	PED 2014/68/EU							
	°F 32 - 176	°C 0 - 80															
RT 350 - 010 - A	10	0.39	60	2.36	50	1.97	360 809 ± 5%	180 bar 2610psi + 20 °C +68 °F	523	1176	596	1340	8,0	0,49	0,22	0,48	✓
RT 350 - 013 - A	13	0.51	66	2.60	53	2.09			536	1206	615	1384	10,0	0,61	0,23	0,50	✓
RT 350 - 016 - A	16	0.63	72	2.83	56	2.20			546	1228	629	1415	12,0	0,73	0,24	0,52	✓
RT 350 - 019 - A	19	0.75	78	3.07	59	2.32			553	1244	640	1439	13,0	0,79	0,25	0,54	✓
RT 350 - 025 - A	25	0.98	90	3.54	65	2.56			564	1267	655	1472	17,0	1,04	0,27	0,60	✓
RT 350 - 032 - A	32	1.26	104	4.09	72	2.83			571	1285	666	1497	21,0	1,28	0,29	0,64	✓
RT 350 - 038 - A	38	1.50	116	4.57	78	3.07			576	1295	673	1513	25,0	1,53	0,31	0,68	✓
RT 350 - 050 - A	50	1.97	140	5.51	90	3.54			582	1309	682	1533	32,0	1,95	0,35	0,77	✓
RT 350 - 063 - A	63	2.48	166	6.54	103	4.06			587	1319	688	1547	40,0	2,44	0,39	0,86	✓
RT 350 - 075 - A	75	2.95	190	7.48	115	4.53			589	1325	692	1556	47,0	2,87	0,43	0,95	✓
RT 350 - 080 - A	80	3.15	200	7.87	120	4.72			590	1327	693	1559	50,0	3,05	0,45	0,99	✓
RT 350 - 100 - A	100	3.94	240	9.45	140	5.51			593	1333	698	1568	62,0	3,79	0,51	1,12	✓
RT 350 - 125 - A	125	4.92	290	11.42	165	6.50			595	1338	701	1576	77,0	4,71	0,59	1,30	✓



HOW TO ORDER
 (10 pcs) RT 350-050-A
 (10 pcs) RT 350-050-A-N



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

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

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

p. 16



ACTIVE SAFETY



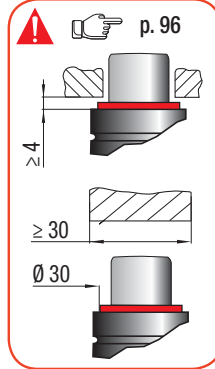
OSAS



USAS

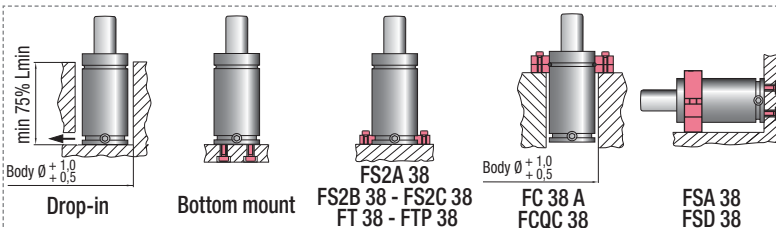


OPAS



	°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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00500C
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CODE	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	
RT 500 - 010 - A	10	0.39	60	2.36	50	1.97	470 ± 5%	1057	692	1555	821	1845	11,0	0.67	0,32	0.71	✓
RT 500 - 013 - A	13	0.51	66	2.60	53	2.09			711	1598	851	1914	14,0	0.85	0,34	0.75	✓
RT 500 - 016 - A	16	0.63	72	2.83	56	2.20			725	1629	873	1963	17,0	1.04	0,36	0.79	✓
RT 500 - 019 - A	19	0.75	78	3.07	59	2.32			735	1652	890	2001	19,0	1.16	0,37	0.82	✓
RT 500 - 025 - A	25	0.98	90	3.54	65	2.56			750	1685	914	2054	24,0	1.46	0,40	0.88	✓
RT 500 - 032 - A	32	1.26	104	4.09	72	2.83			761	1710	932	2094	30,0	1.83	0,43	0.95	✓
RT 500 - 038 - A	38	1.50	116	4.57	78	3.07			767	1725	942	2119	36,0	2.20	0,46	1.01	✓
RT 500 - 050 - A	50	1.97	140	5.51	90	3.54			776	1746	957	2152	46,0	2.81	0,52	1.15	✓
RT 500 - 063 - A	63	2.48	166	6.54	103	4.06			783	1759	967	2175	57,0	3.48	0,58	1.28	✓
RT 500 - 075 - A	75	2.95	190	7.48	115	4.53			787	1768	974	2189	67,0	4.09	0,63	1.39	✓
RT 500 - 080 - A	80	3.15	200	7.87	120	4.72			788	1771	976	2194	72,0	4.39	0,66	1.46	✓
RT 500 - 100 - A	100	3.94	240	9.45	140	5.51	792	1780	983	2209	89,0	5.43	0,75	1.65	✓		
RT 500 - 125 - A	125	4.92	290	11.42	165	6.50	795	1788	988	2221	110,0	6.71	0,87	1.92	✓		



HOW TO ORDER

(10 pcs) RT 500-050-A
(10 pcs) RT 500-050-A-N


OSAS + OSM
OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER
ACTIVE SAFETY
*** F_{1i} =**

Isothermal end force at 100% Cu



p. 16

**** F_{1p} =**

Polytrophic end force at 100% Cu



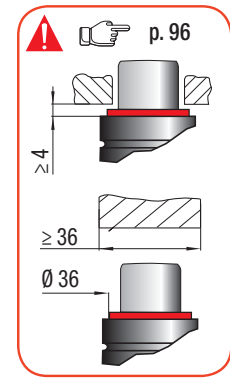
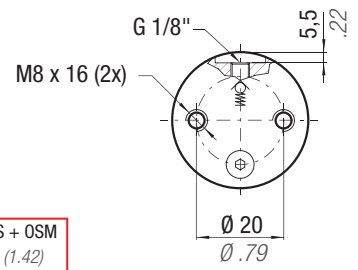
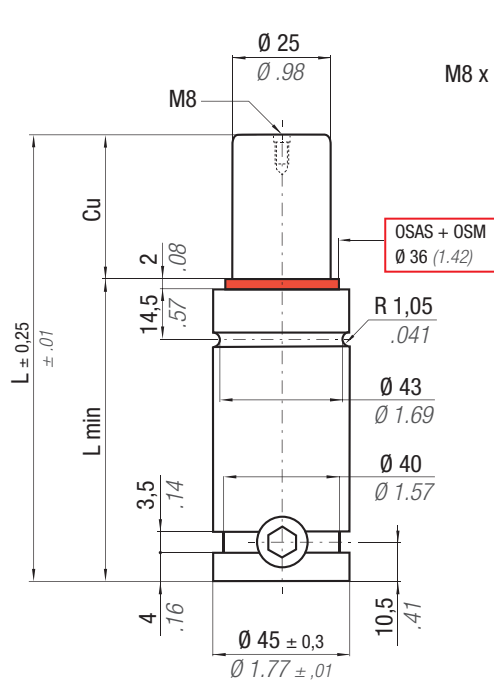
OSAS



USAS

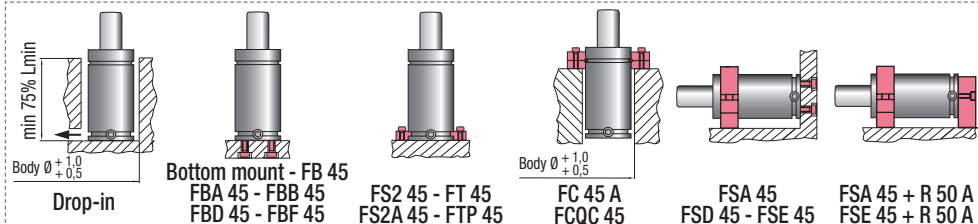


OPAS

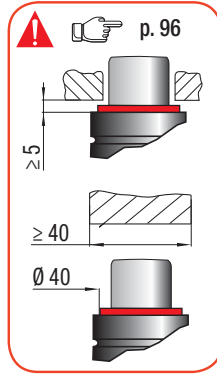
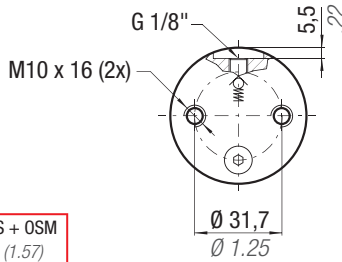
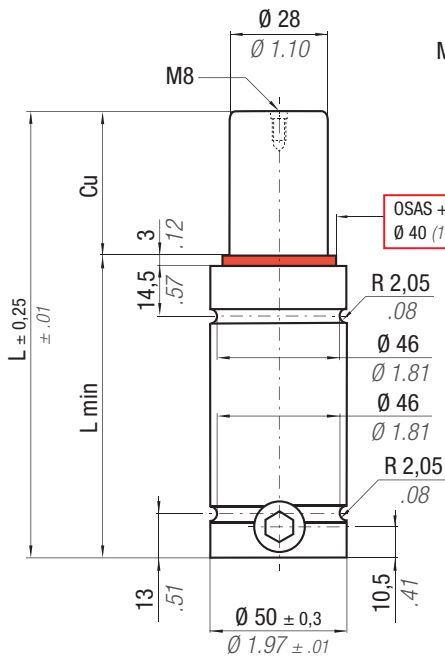


	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4,91 cm ² 0,761 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV00750C
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CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		PED		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	2014/68/EU
RT 750 - 010 - A	10	0.39	67	2.64	57	2.24	740 ± 5%	1664	1018	2288	1184	2662	21,0	1.28	0,50	1.10	✓
RT 750 - 013 - A	13	0.51	73	2.87	60	2.36			1056	2373	1243	2794	24,0	1.46	0,52	1.15	✓
RT 750 - 016 - A	16	0.63	79	3.11	63	2.48			1085	2439	1289	2898	28,0	1.71	0,54	1.19	✓
RT 750 - 019 - A	19	0.75	85	3.35	66	2.60			1108	2492	1326	2981	32,0	1.95	0,56	1.23	✓
RT 750 - 025 - A	25	0.98	97	3.82	72	2.83			1143	2570	1382	3107	40,0	2.44	0,60	1.32	✓
RT 750 - 032 - A	32	1.26	111	4.37	79	3.11			1172	2634	1428	3210	49,0	2.99	0,64	1.41	✓
RT 750 - 038 - A	38	1.50	123	4.84	85	3.35			1189	2674	1457	3275	56,0	3.42	0,68	1.50	✓
RT 750 - 050 - A	50	1.97	147	5.79	97	3.82			1214	2730	1497	3365	72,0	4.39	0,76	1.68	✓
RT 750 - 063 - A	63	2.48	173	6.81	110	4.33			1232	2770	1527	3433	88,0	5.37	0,84	1.85	✓
RT 750 - 075 - A	75	2.95	197	7.76	122	4.80			1244	2796	1546	3476	103,0	6.28	0,92	2.03	✓
RT 750 - 080 - A	80	3.15	207	8.15	127	5.00	1248	2805	1552	3489	110,0	6.71	0,95	2.09	✓		
RT 750 - 100 - A	100	3.94	247	9.72	147	5.79	1260	2832	1573	3536	135,0	8.24	1,08	2.38	✓		
RT 750 - 125 - A	125	4.92	297	11.69	172	6.77	1270	2855	1589	3572	167,0	10.19	1,24	2.73	✓		



HOW TO ORDER
 (10 pcs) RT 750-050-A
 (10 pcs) RT 750-050-A-N



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



ACTIVE SAFETY



OSAS

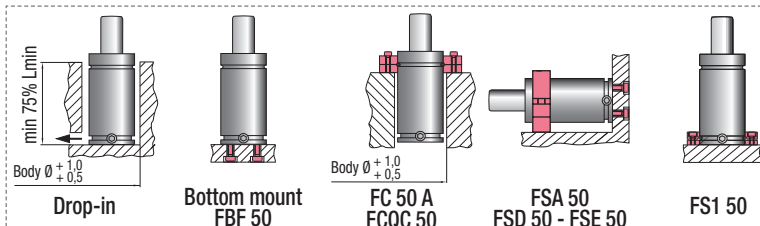


USAS



OPAS

CODE	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 6,15 cm ² 0.953 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C	PED					
											~Kg	~lb				
RT 1000 - 010 - A	10	0.39	72	2.83	62	2.44	920 ± 5%	1274	2863	1481	3329	26,0	1.59	0,68	1.50	✓
RT 1000 - 013 - A	13	0.51	78	3.07	65	2.56		1323	2973	1557	3500	31,0	1.89	0,70	1.54	✓
RT 1000 - 016 - A	16	0.63	84	3.31	68	2.68		1361	3059	1617	3635	35,0	2.14	0,73	1.61	✓
RT 1000 - 019 - A	19	0.75	90	3.54	71	2.80		1391	3128	1666	3745	40,0	2.44	0,75	1.65	✓
RT 1000 - 025 - A	25	0.98	102	4.02	77	3.03		1437	3232	1739	3909	50,0	3.05	0,80	1.76	✓
RT 1000 - 032 - A	32	1.26	116	4.57	84	3.31		1475	3316	1800	4047	61,0	3.72	0,86	1.90	✓
RT 1000 - 038 - A	38	1.50	128	5.04	90	3.54		1499	3369	1838	4132	70,0	4.27	0,90	1.98	✓
RT 1000 - 050 - A	50	1.97	152	5.98	102	4.02		1532	3445	1893	4256	89,0	5.43	1,00	2.20	✓
RT 1000 - 063 - A	63	2.48	178	7.01	115	4.53		1556	3499	1933	4346	109,0	6.65	1,10	2.43	✓
RT 1000 - 075 - A	75	2.95	202	7.95	127	5.00		1572	3534	1959	4404	128,0	7.81	1,20	2.65	✓
RT 1000 - 080 - A	80	3.15	212	8.35	132	5.20	1578	3546	1968	4424	136,0	8.30	1,24	2.73	✓	
RT 1000 - 100 - A	100	3.94	252	9.92	152	5.98	1594	3584	1995	4485	167,0	10.19	1,40	3.09	✓	
RT 1000 - 125 - A	125	4.92	302	11.89	177	6.97	1608	3615	2018	4537	207,0	12.63	1,60	3.53	✓	



HOW TO ORDER

(10 pcs) RT 1000-050-A
(10 pcs) RT 1000-050-A-N



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

ACTIVE SAFETY

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



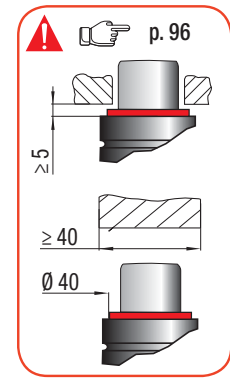
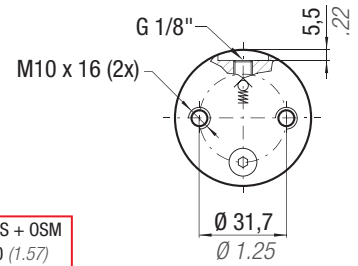
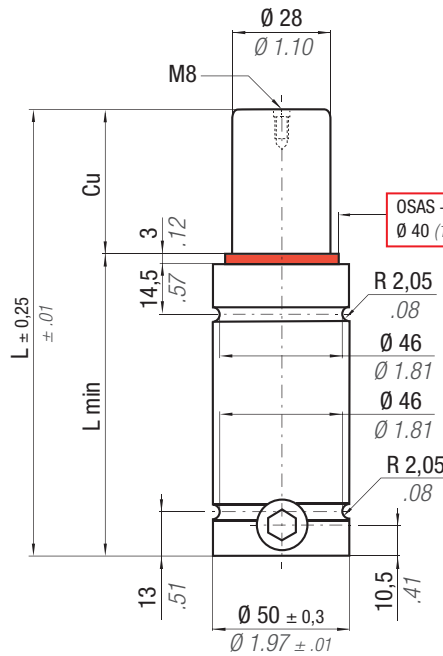
OSAS



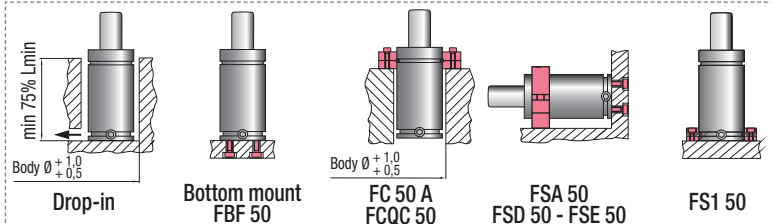
USAS



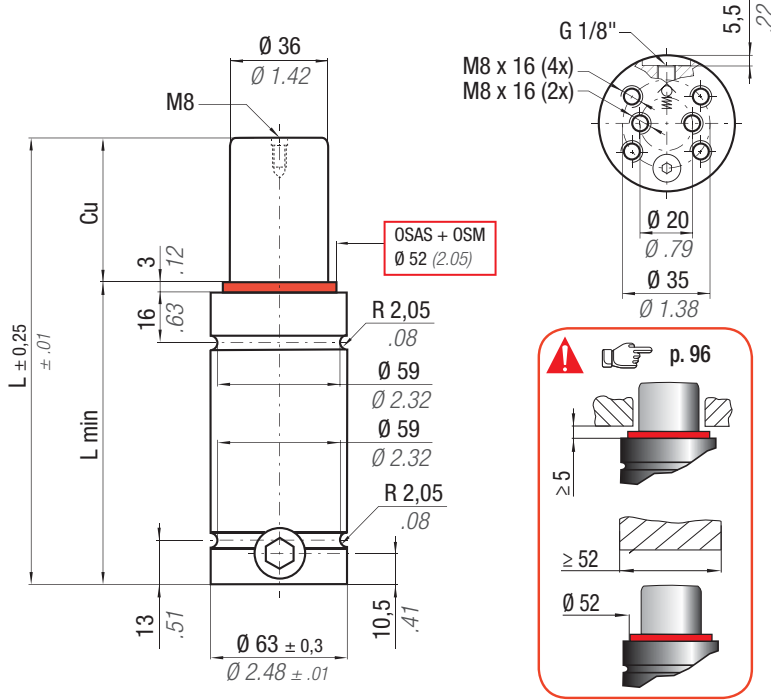
OPAS



CODE	N ₂	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 170 bar 2465 psi	P min 20 bar 290 psi	S 6,15 cm ² 0,953 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01000C	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	✓	✓
RT 1200 - 010 - A											10	0.39	72	2.83	62	2.44	1060 ± 5%	2383	1462	3287	1670	3754	26,0	1,59	0,68	1,50	✓	✓
RT 1200 - 013 - A											13	0.51	78	3.07	65	2.56			1521	3419	1755	3946	31,0	1,89	0,70	1,54	✓	✓
RT 1200 - 016 - A											16	0.63	84	3.31	68	2.68			1566	3522	1823	4098	35,0	2,14	0,73	1,61	✓	✓
RT 1200 - 019 - A											19	0.75	90	3.54	71	2.80			1603	3604	1878	4221	40,0	2,44	0,75	1,65	✓	✓
RT 1200 - 025 - A											25	0.98	102	4.02	77	3.03			1658	3728	1961	4408	50,0	3,05	0,80	1,76	✓	✓
RT 1200 - 032 - A											32	1.26	116	4.57	84	3.31			1704	3830	2029	4562	61,0	3,72	0,86	1,90	✓	✓
RT 1200 - 038 - A											38	1.50	128	5.04	90	3.54			1732	3894	2073	4660	70,0	4,27	0,90	1,98	✓	✓
RT 1200 - 050 - A											50	1.97	152	5.98	102	4.02			1772	3985	2134	4798	89,0	5,43	1,00	2,20	✓	✓
RT 1200 - 063 - A											63	2.48	178	7.01	115	4.53			1801	4050	2179	4899	109,0	6,65	1,10	2,43	✓	✓
RT 1200 - 075 - A											75	2.95	202	7.95	127	5.00			1820	4092	2208	4965	128,0	7,81	1,20	2,65	✓	✓
RT 1200 - 080 - A											80	3.15	212	8.35	132	5.20	1827	4107	2218	4987	136,0	8,30	1,24	2,73	✓	✓		
RT 1200 - 100 - A											100	3.94	252	9.92	152	5.98	1847	4152	2249	5057	167,0	10,19	1,40	3,09	✓	✓		
RT 1200 - 125 - A											125	4.92	302	11.89	177	6.97	1864	4190	2275	5115	207,0	12,63	1,60	3,53	✓	✓		



HOW TO ORDER
 (10 pcs) RT 1200-050-A
 (10 pcs) RT 1200-050-A-N



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

*** F_i =**

Isothermal end force at 100% Cu

**** F_p =**

Polytropic end force at 100% Cu

p. 16



ACTIVE SAFETY



OSAS

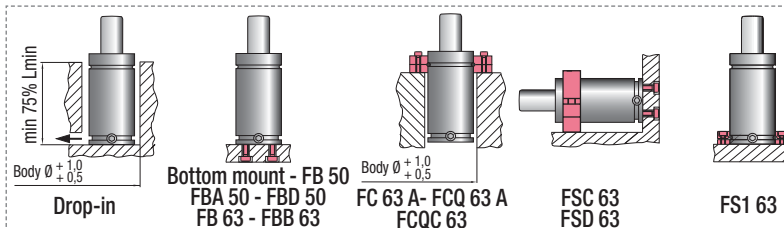


USAS



OPAS

CODE	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 ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV01500C	Cu		L		L min		F ₀ Initial force		F _i * End force *		F _p ** 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	✓
RT 1500 - 010 - A											10	0.39	72	2.83	62	2.44	1530 ± 5%	3440	2071	4655	2395	5384	45,0	2.75	1,05	2.31	✓
RT 1500 - 013 - A										13	0.51	78	3.07	65	2.56	2149			4830	2515	5654	53,0	3.23	1,09	2.40	✓	
RT 1500 - 016 - A										16	0.63	84	3.31	68	2.68	2210			4967	2611	5870	61,0	3.72	1,13	2.49	✓	
RT 1500 - 019 - A										19	0.75	90	3.54	71	2.80	2258			5076	2687	6041	69,0	4.21	1,16	2.56	✓	
RT 1500 - 025 - A										25	0.98	102	4.02	77	3.03	2333			5245	2806	6308	85,0	5.19	1,23	2.71	✓	
RT 1500 - 032 - A										32	1.26	116	4.57	84	3.31	2394	5382	2904	6528	104,0	6.34	1,31	2.89	✓			
RT 1500 - 038 - A										38	1.50	128	5.04	90	3.54	150 bar 2175 psi		2433	5469	2966	6668	119,0	7.26	1,38	3.04	✓	
RT 1500 - 050 - A									50	1.97	152	5.98	102	4.02	2488			5592	3055	6868	151,0	9.21	1,53	3.37	✓		
RT 1500 - 063 - A										63	2.48	178	7.01	115	4.53	+ 20 °C +68 °F		2527	5681	3120	7014	186,0	11.35	1,69	3.73	✓	
RT 1500 - 075 - A									75	2.95	202	7.95	127	5.00	2553			5739	3163	7111	218,0	13.30	1,83	4.03	✓		
RT 1500 - 080 - A									80	3.15	212	8.35	132	5.20	2562			5759	3177	7142	231,0	14.09	1,89	4.17	✓		
RT 1500 - 100 - A									100	3.94	252	9.92	152	5.98	2589			5821	3222	7243	284,0	17.32	2,12	4.67	✓		
RT 1500 - 125 - A									125	4.92	302	11.89	177	6.97	2612			5872	3260	7329	350,0	21.35	2,41	5.31	✓		



HOW TO ORDER

(10 pcs) RT 1500-050-A
(10 pcs) RT 1500-050-A-N



OSAS + OSM

OVER STROKE ACTIVE SAFETY + OVER STROKE MARKER

ACTIVE SAFETY



p. 211



OSAS

* $F_{1i} =$

Isothermal end force at 100% Cu

p. 16

** $F_{1p} =$

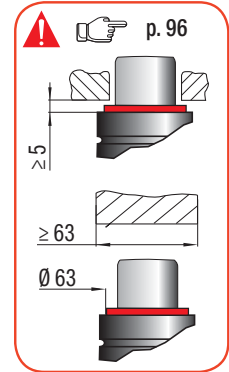
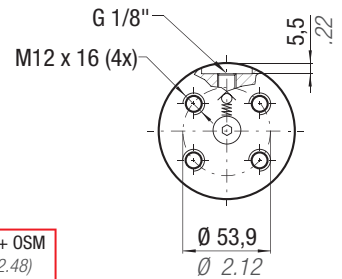
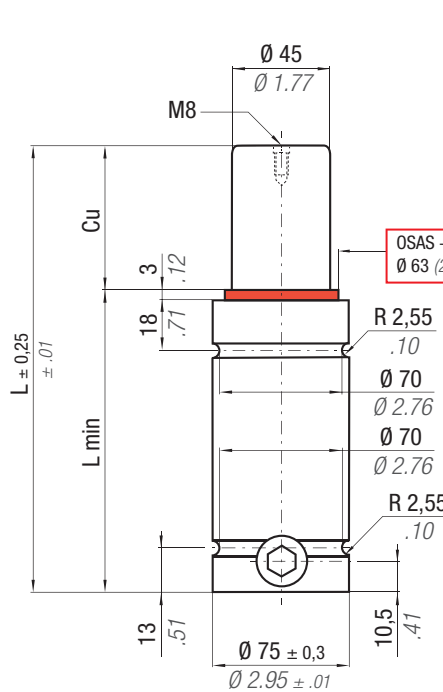
Polytropic end force at 100% Cu



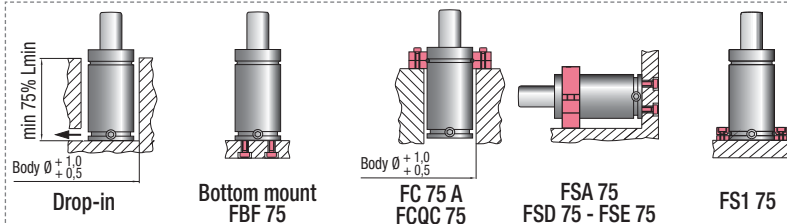
USAS



OPAS

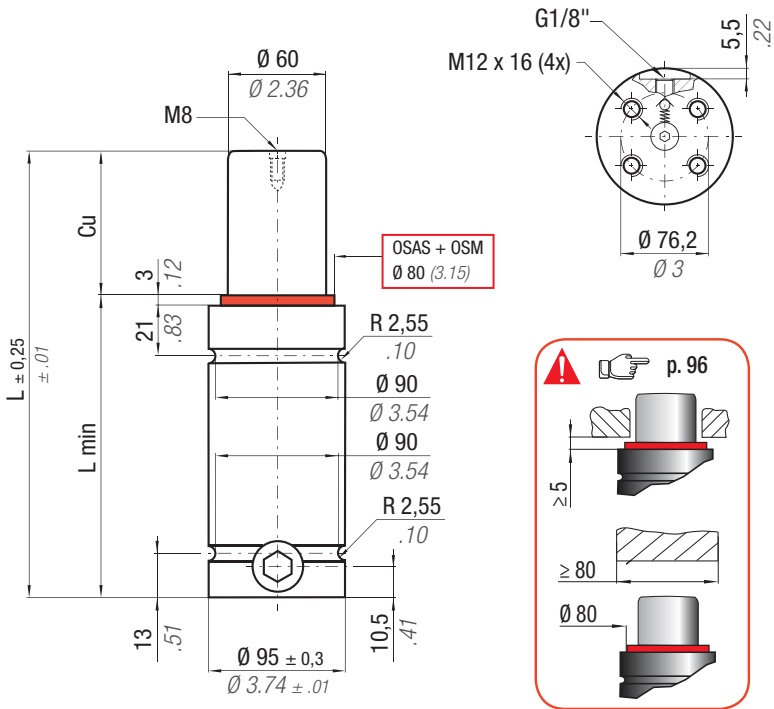


CODE	N ₂	°F 32 - 176	°C 0 - 80	ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 15,90 cm ² 2,465 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV02400C	Vo		PED		
											cm ³	in ³	~Kg	~lb	2014/68/EU
RT 2400 - 010 - A											78,0	4,76	1,44	3,17	✓
RT 2400 - 013 - A											90,0	5,49	1,64	3,62	✓
RT 2400 - 016 - A											103,0	6,28	1,74	3,84	✓
RT 2400 - 019 - A											115,0	7,02	1,78	3,92	✓
RT 2400 - 025 - A											139,0	8,48	1,88	4,14	✓
RT 2400 - 032 - A											170,0	10,37	1,99	4,39	✓
RT 2400 - 038 - A											191,0	11,65	2,08	4,59	✓
RT 2400 - 050 - A											239,0	14,58	2,27	5,00	✓
RT 2400 - 063 - A											292,0	17,81	2,48	5,47	✓
RT 2400 - 075 - A											340,0	20,74	2,67	5,89	✓
RT 2400 - 080 - A											360,0	21,96	2,74	6,04	✓
RT 2400 - 100 - A											441,0	26,90	3,06	6,75	✓
RT 2400 - 125 - A											541,0	33,00	3,45	7,61	✓



HOW TO ORDER

(10 pcs) RT 2400-050-A
(10 pcs) RT 2400-050-A-N



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

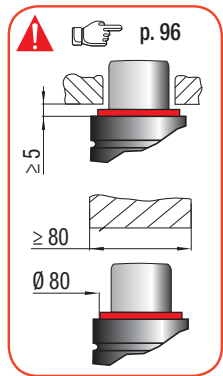


easu MANIFOLD p. 211

ACTIVE SAFETY

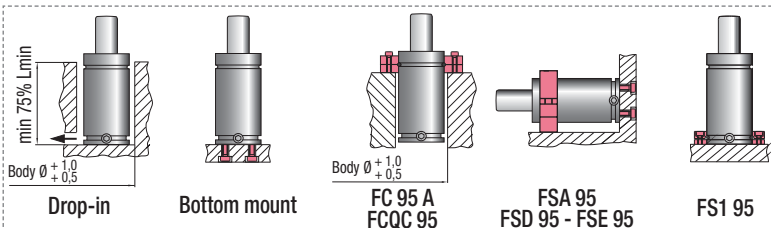
* F_{1i} = Isothermal end force at 100% Cu p. 16

** F_{1p} = Polyphropic 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 28,27 cm ² 4.382 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV04200C
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CODE	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	
RT 4200 - 016 - A	16	0.63	94	3.70	78	3.07	4240 ± 5%	9532	6073	13653	7150	16074	174,0	10.61	2,97	6.55	✓
RT 4200 - 019 - A	19	0.75	100	3.94	81	3.19			6238	14024	7409	16656	194,0	11.83	3,05	6.72	✓
RT 4200 - 025 - A	25	0.98	112	4.41	87	3.43			6499	14609	7823	17587	235,0	14.34	3,20	7.05	✓
RT 4200 - 032 - A	32	1.26	126	4.96	94	3.70			6723	15113	8183	18396	282,0	17.20	3,37	7.43	✓
RT 4200 - 038 - A	38	1.50	138	5.43	100	3.94			6870	15443	8421	18931	323,0	19.70	3,52	7.76	✓
RT 4200 - 050 - A	50	1.97	162	6.38	112	4.41	150 bar	2175 psi	7085	15928	8774	19725	404,0	24.64	3,82	8.42	✓
RT 4200 - 063 - A	63	2.48	188	7.40	125	4.92	+ 20 °C +68 °F		7246	16289	9039	20320	492,0	30.01	4,14	9.13	✓
RT 4200 - 075 - A	75	2.95	212	8.35	137	5.39			7354	16533	9219	20725	573,0	34.95	4,44	9.79	✓
RT 4200 - 080 - A	80	3.15	222	8.74	142	5.59			7391	16616	9281	20865	606,0	36.97	4,57	10.08	✓
RT 4200 - 100 - A	100	3.94	262	10.31	162	6.38			7509	16880	9477	21305	742,0	45.26	5,07	11.18	✓
RT 4200 - 125 - A	125	4.92	312	12.28	187	7.36			7609	17105	9645	21683	911,0	55.57	5,69	12.54	✓



HOW TO ORDER

(10 pcs) RT 4200-050-A
(10 pcs) RT 4200-050-A-N



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

ACTIVE SAFETY

easu MANIFOLD p. 211



OSAS

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

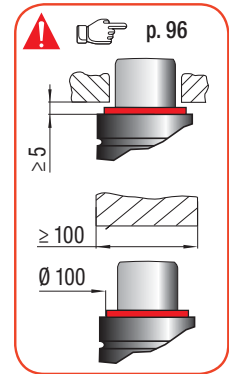
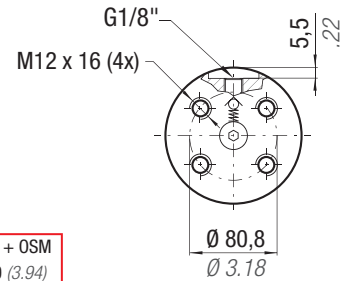
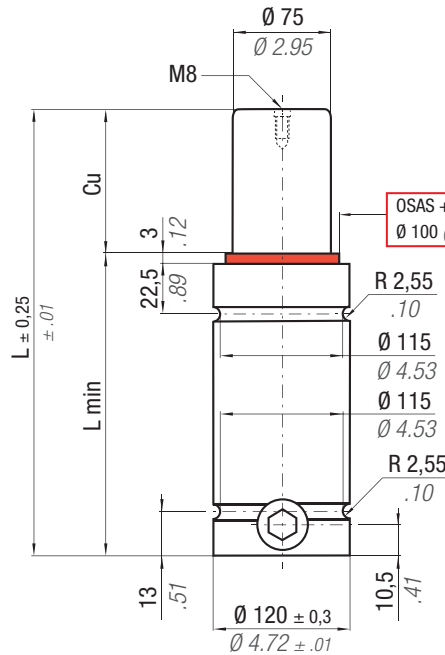
** F_{1p} = Polytrophic end force at 100% Cu



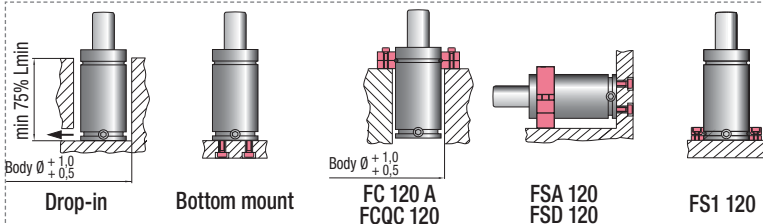
USAS



OPAS

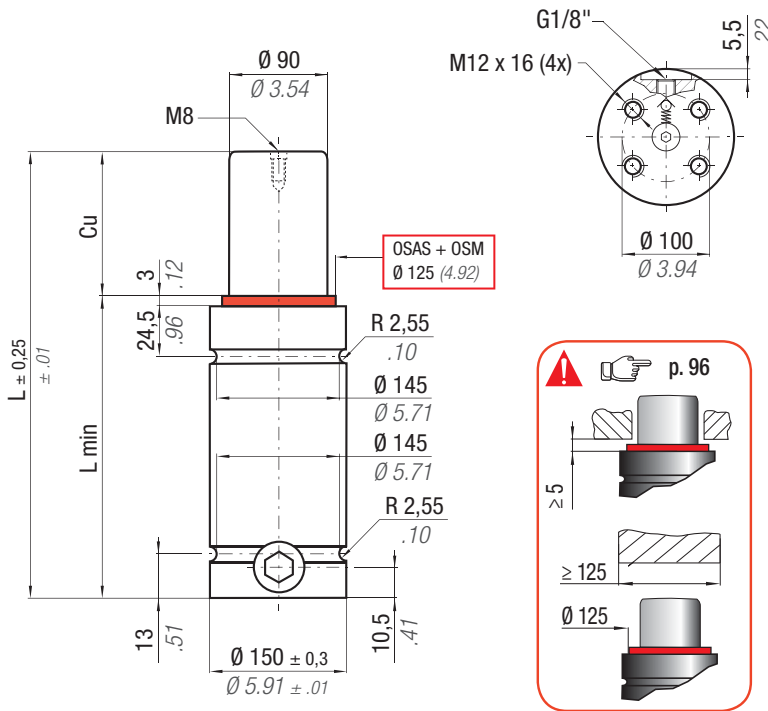


CODE		°F		°C		ΔP ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 44,18 cm ² 6.848 in ²	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s	Maintenance kit 39BMRV06600C						
		32	176	0	80							~Kg	~lb					
		Cu		L		L min		F ₀ Initial force		F _{1i} * End force *		F _{1p} ** End force **		V ₀				
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³		~Kg	~lb
RT 6600 - 016 - A		16	0.63	104	4.09	88	3.46	6630 ± 5%	14904	9032	20306	10464	23524	309,0	18.85	5,41	11.93	✓
RT 6600 - 019 - A		19	0.75	110	4.33	91	3.58			9281	20864	10847	24385	341,0	20.80	5,53	12.19	✓
RT 6600 - 025 - A		25	0.98	122	4.80	97	3.82			9684	21771	11478	25804	405,0	24.71	5,77	12.72	✓
RT 6600 - 032 - A		32	1.26	136	5.35	104	4.09			10044	22579	12047	27083	479,0	29.22	6,05	13.34	✓
RT 6600 - 038 - A		38	1.50	148	5.83	110	4.33			10286	23124	12435	27955	544,0	33.18	6,25	13.78	✓
RT 6600 - 050 - A		50	1.97	172	6.77	122	4.80			10652	23946	13025	29281	672,0	40.99	6,77	14.93	✓
RT 6600 - 063 - A		63	2.48	198	7.80	135	5.31			10932	24577	13483	30311	811,0	49.47	7,25	15.98	✓
RT 6600 - 075 - A		75	2.95	222	8.74	147	5.79			11125	25011	13800	31024	939,0	57.28	7,77	17.13	✓
RT 6600 - 080 - A		80	3.15	232	9.13	152	5.98			11193	25162	13910	31271	992,0	60.51	7,97	17.57	✓
RT 6600 - 100 - A		100	3.94	272	10.71	172	6.77			11407	25643	14264	32067	1206,0	73.57	8,76	19.31	✓
RT 6600 - 125 - A		125	4.92	322	12.68	197	7.76	11593	26061	14574	32764	1473,0	89.85	9,76	21.52	✓		



HOW TO ORDER

(10 pcs) RT 6600-050-A
(10 pcs) RT 6600-050-A-N



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



easu MANIFOLD p. 211

ACTIVE SAFETY

* F_{1i} =

Isothermal end force at 100% Cu p. 16

** F_{1p} =

Polytropic end force at 100% Cu



OSAS

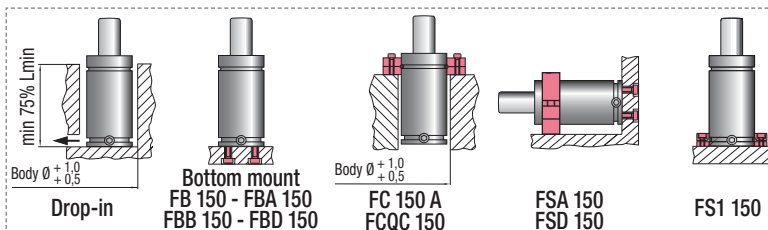


USAS



OPAS

CODE	Cu		L		L min		F ₀		F _{1i} *		F _{1p} **		V ₀		Maintenance kit		
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm ³	in ³	~Kg	~lb	
RT 9500 - 019 - A	19	0.75	116	4.57	97	3.82	9540 ± 5% 150 bar 2175 psi + 20 °C +68 °F	21446	13206	29688	15375	34564	506,0	30.87	9,58	21.12	✓
RT 9500 - 025 - A	25	0.98	128	5.04	103	4.06			13741	30892	16208	36437	603,0	36.78	9,95	21.94	✓
RT 9500 - 032 - A	32	1.26	142	5.59	110	4.33			14214	31954	16952	38110	716,0	43.68	10,39	22.91	✓
RT 9500 - 038 - A	38	1.50	154	6.06	116	4.57			14530	32665	17455	39240	812,0	49.53	10,76	23.72	✓
RT 9500 - 050 - A	50	1.97	178	7.01	128	5.04			15003	33729	18214	40947	1006,0	61.37	11,51	25.38	✓
RT 9500 - 063 - A	63	2.48	204	8.03	141	5.55			15364	34539	18797	42257	1215,0	74.12	12,32	27.16	✓
RT 9500 - 075 - A	75	2.95	228	8.98	153	6.02			15610	35093	19198	43159	1409,0	85.95	13,07	28.81	✓
RT 9500 - 080 - A	80	3.15	238	9.37	158	6.22			15696	35285	19338	43474	1489,0	90.83	13,38	29.50	✓
RT 9500 - 100 - A	100	3.94	278	10.94	178	7.01			15967	35895	19783	44474	1812,0	110.53	14,63	32.25	✓
RT 9500 - 125 - A	125	4.92	328	12.91	203	7.99			16202	36423	20170	45344	2215,0	135.12	16,19	35.69	✓



HOW TO ORDER

(10 pcs) RT 9500-050-A
(10 pcs) RT 9500-050-A-N