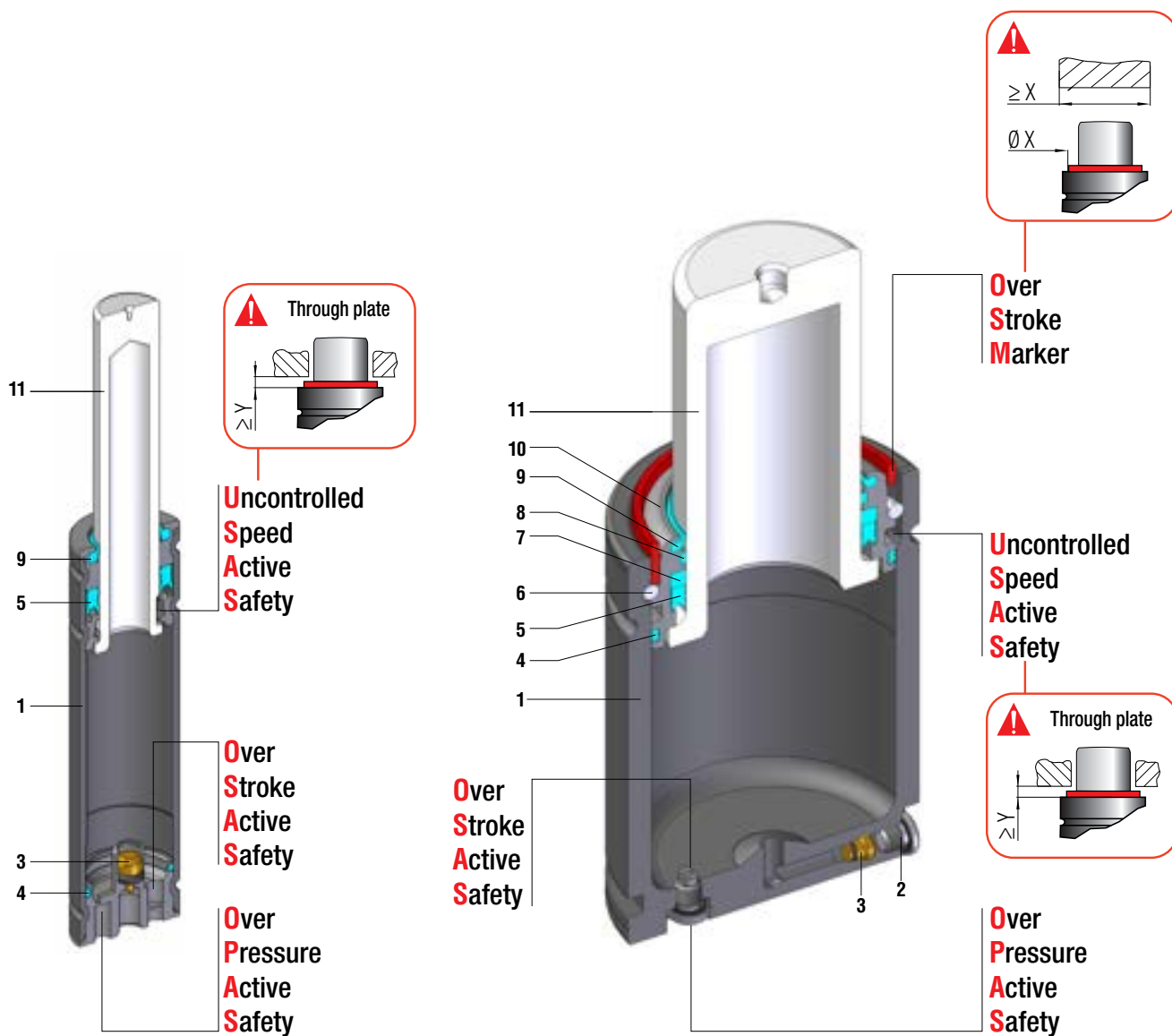


ISO	VDI	BMW	FCA
Ford	Mazda	MB	Nissan
PSA	Renault	VW	



RV 170 - RV 320

RV 350 ÷ RV 20000

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

<b>SEALING</b>	ROD SEAL
<b>DESIGN</b>	BUSH - BODY DESIGN

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

## RANGE CHART

Model	Body Ø		Stroke Cu		Initial force F0						
	mm	inch	mm	inch	daN	lb	OSAS	USAS	OPAS	SKUDO	SW
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	✓	✓	✓	-	✓

✓ Built-in as standard

✓ Optional upon request

## HOW TO ORDER

Series \_\_\_\_\_ Revision code \_\_\_\_\_

Model **RV 1000-063-B-E-W**

Stroke \_\_\_\_\_ Version \_\_\_\_\_

### Available versions



**RV 1000-063-B**  
Standard code



Self contained



**RV 1000-063-B-W**  
Add "-W" to standard code



Self contained



+ Secondary wiper



**RV 1000-063-B-N**  
Add "-N" to standard code



Linkable



**RV 1000-063-B-N-W**  
Add "-N-W" to standard code



Linkable



+ Secondary wiper



**RV 1000-063-B-E**  
Add "-E" to standard code



Easy Manifold



**RV 1000-063-B-E-W**  
Add "-E-W" to standard code



Easy Manifold



+ Secondary wiper

# RV 170

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



p. 247

\*  $F_{1i} =$

Isothermal end force at 100% Cu

p. 16

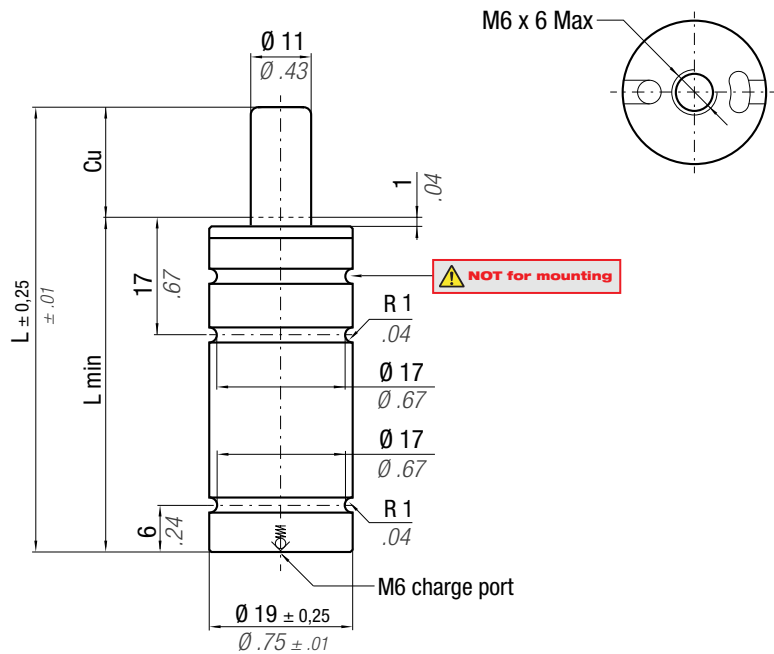
\*\*  $F_{1p} =$

Polytrophic end force at 100% Cu



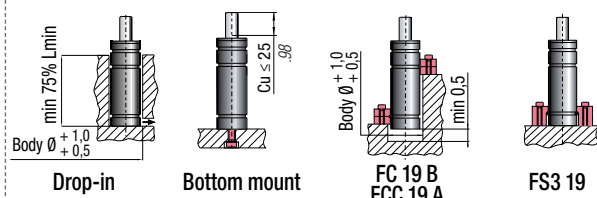
Collegabile con tubi  
Linkable with hoses  
Anschlussfähig mit Leitungen  
Connectable avec tubes  
Conectable con mangueras  
Acompláveis com tubos

Micro 32°



<b>N<sub>2</sub></b>	0 - 80 °C 32 - 176 °F	$\Delta P$ $\pm 0,33 \% / ^\circ C$	<b>P max</b> 180 bar 2610 psi	<b>P min</b> 20 bar 290 psi	<b>S</b> 0,95 cm <sup>2</sup> 0,147 in <sup>2</sup>	<b>SPM</b> ~ 40 - 100 (at 20°C)	<b>Max Speed</b> 1,8 m/s 70,8 in/s	<b>Maintenance kit</b> Disposable
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CODE PHASING OUT from 05/2019	NEW	Cu		L		L min		F <sub>0</sub>		F <sub>1i</sub> *		F <sub>1p</sub> **		V <sub>0</sub>		~Kg	~lb	PED 2014/68/EU
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>			
RV 170 - 007 - B	RV 170 - 007 - C	7	0.28	44	1.73	37	1.46	170 ± 5% 180 bar 2610psi  + 20 °C +68 °F	382	274	616	320	719	2,1	0.13	0,06	0.13	✓
RV 170 - 010 - B	RV 170 - 010 - C	10	0.39	50	1.97	40	1.57			285	641	337	758	2,9	0.18	0,06	0.13	✓
RV 170 - 013 - B	RV 170 - 013 - C	13	0.51	56	2.20	43	1.69			292	656	348	782	3,6	0.22	0,07	0.15	✓
RV 170 - 015 - B	RV 170 - 015 - C	15	0.59	60	2.36	45	1.77			296	665	353	794	4,1	0.25	0,07	0.15	✓
RV 170 - 019 - B	RV 170 - 019 - C	19	0.75	68	2.68	49	1.93			301	677	361	812	5,0	0.31	0,07	0.16	✓
RV 170 - 025 - B	RV 170 - 025 - C	25	0.98	80	3.15	55	2.17			306	688	369	830	6,4	0.39	0,08	0.17	✓
RV 170 - 032 - B	RV 170 - 032 - C	32	1.26	94	3.7	62	2.44			310	697	374	841	8,1	0.49	0,09	0.19	✓
RV 170 - 038 - B	RV 170 - 038 - C	38	1.5	106	4.17	68	2.68			312	701	378	850	9,5	0.58	0,09	0.20	✓
RV 170 - 050 - B	RV 170 - 050 - C	50	1.97	130	5.12	80	3.15			315	708	382	859	12,4	0.76	0,11	0.23	✓
RV 170 - 063 - B	RV 170 - 063 - C	63	2.48	156	6.14	93	3.66			317	713	385	866	15,5	0.95	0,12	0.26	✓
RV 170 - 075 - B	RV 170 - 075 - C	75	2.95	185	7.28	110	4.33			318	715	387	870	18,3	1.12	0,14	0.30	✓
RV 170 - 080 - B	RV 170 - 080 - C	80	3.15	195	7.68	115	4.53			319	717	388	872	19,5	1.19	0,14	0.31	✓
RV 170 - 100 - B	RV 170 - 100 - C	100	3.94	235	9.25	135	5.31			320	719	390	877	24,3	1.48	0,16	0.36	✓
RV 170 - 125 - B	RV 170 - 125 - C	125	4.92	285	11.22	160	6.3			321	722	391	879	30,2	1.84	0,19	0.42	✓

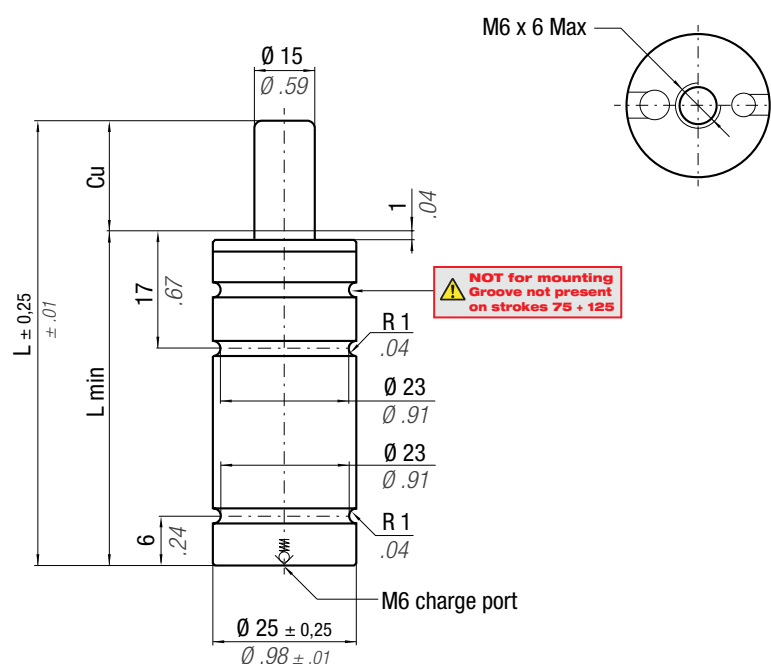


## HOW TO ORDER

p. 57

## INSTALLATION GUIDELINE

p. 205



Il nuovo codice sarà fornito solo ad esaurimento del vecchio

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\*  $F_{1i} =$

Isothermal end force at 100% Cu



p. 16

\*\*  $F_{1p} =$

Polytrophic end force at 100% Cu



SW

**ACTIVE SAFETY**



OSAS



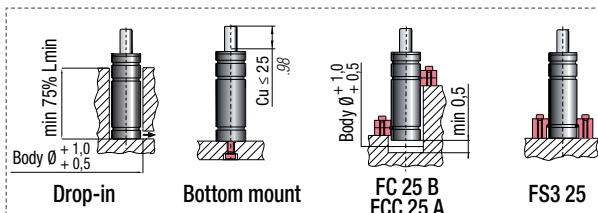
USAS



OPAS

N <sub>2</sub>	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	<b>P max</b> 180 bar 2610 psi	<b>P min</b> 20 bar 290 psi	<b>S</b> 1,77 cm <sup>2</sup> 0.27 in <sup>2</sup>	<b>SPM</b> ~ 40 - 100 (at 20°C)	<b>Max Speed</b> 1,8 m/s 70.8 in/s	<b>Maintenance kit</b> Disposable
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CODE PHASING OUT from 01/2020	NEW	Cu		L		L min		F <sub>0</sub> Initial force		F <sub>1i</sub> * End force *		F <sub>1p</sub> ** End force **		V <sub>0</sub>		Maintenance kit		PED 2014/68/EU
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>	~Kg	~lb	
RV 320 - 007 - B	RV 320 - 007 - C	7	0.28	44	1.73	37	1.46	320 719 ± 5% 180 bar 2610psi + 20 °C +68 °F		471	1059	540	1214	4,6	0.28	0,10	0.22	✓
RV 320 - 010 - B	RV 320 - 010 - C	10	0.39	50	1.97	40	1.57			495	1112	574	1291	6,0	0.37	0,10	0.23	✓
RV 320 - 013 - B	RV 320 - 013 - C	13	0.51	56	2.20	43	1.69			511	1148	598	1344	7,3	0.45	0,11	0.24	✓
RV 320 - 015 - B	RV 320 - 015 - C	15	0.59	60	2.36	45	1.77			519	1167	610	1371	8,2	0.50	0,11	0.24	✓
RV 320 - 019 - B	RV 320 - 019 - C	19	0.75	68	2.68	49	1.93			531	1195	628	1412	10,1	0.62	0,12	0.26	✓
RV 320 - 025 - B	RV 320 - 025 - C	25	0.98	80	3.15	55	2.17			544	1223	647	1454	12,8	0.78	0,13	0.28	✓
RV 320 - 032 - B	RV 320 - 032 - C	32	1.26	94	3.70	62	2.44			553	1244	661	1486	15,9	0.97	0,14	0.31	✓
RV 320 - 038 - B	RV 320 - 038 - C	38	1.50	106	4.17	68	2.68			559	1257	669	1505	18,6	1.14	0,15	0.33	✓
RV 320 - 050 - B	RV 320 - 050 - C	50	1.97	130	5.12	80	3.15			567	1274	681	1531	24,1	1.47	0,17	0.37	✓
RV 320 - 063 - B	RV 320 - 063 - C	63	2.48	156	6.14	93	3.66			572	1286	689	1549	29,9	1.82	0,19	0.42	✓
RV 320 - 075 - B	RV 320 - 075 - C	75	2.95	185	7.28	110	4.33			570	1282	686	1543	35,8	2.18	0,22	0.48	✓
RV 320 - 080 - B	RV 320 - 080 - C	80	3.15	195	7.68	115	4.53			572	1285	688	1548	38,1	2.33	0,23	0.50	✓
RV 320 - 100 - B	RV 320 - 100 - C	100	3.94	235	9.25	135	5.31			576	1295	695	1562	47,1	2.87	0,26	0.57	✓
RV 320 - 125 - B	RV 320 - 125 - C	125	4.92	285	11.22	160	6.30			580	1303	700	1574	58,4	3.56	0,30	0.66	✓



**HOW TO ORDER**

p. 57

**INSTALLATION GUIDELINE**

p. 205

# 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



OSAS



USAS



OPAS

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

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

Der neue Kode wird nur angegeben, wenn der alte nicht mehr lieferbar ist

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

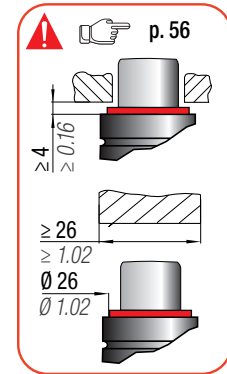
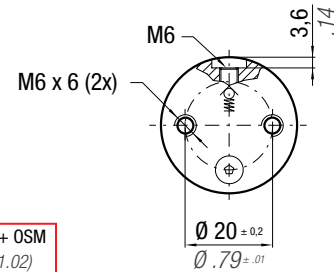
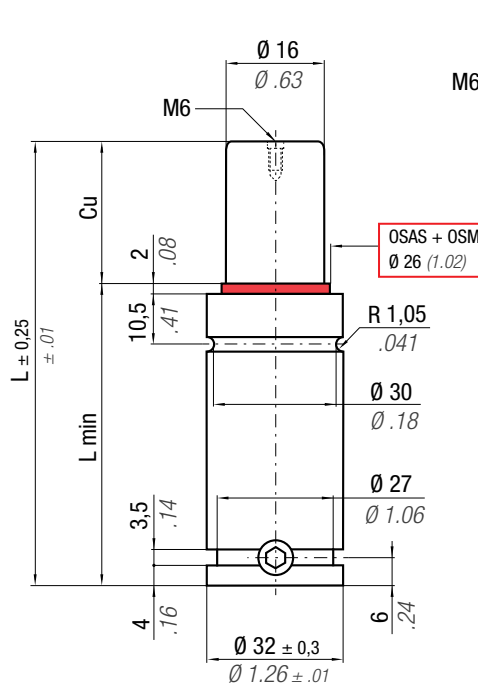
El nuevo código será suministrado sólo cuando se agoten las existencias del antiguo

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

**easu** MANIPOL p. 247

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

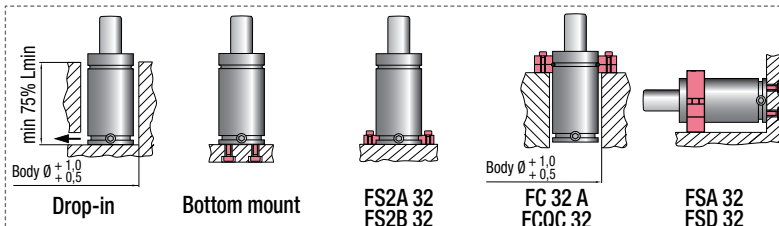
\*\*  $F_{1p}$  = Polyphoric end force at 100% Cu



	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 180 bar 2610 psi	P min 20 bar 290 psi	S 2,01 cm <sup>2</sup> 0,312 in <sup>2</sup>	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMRV00350C
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F <sub>0</sub> Initial force		F <sub>1i</sub> * End force *		F <sub>1p</sub> ** End force **		V <sub>0</sub>		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		~Kg	~lb
RV 350 - 010 - A	♦ RV 350 - 010 - B	10	0.39	50	1.97	40	1.57	360 ± 5%	809	531	1194	607	1366	7,7	0.47	0,17	0.36	✓
RV 350 - 013 - A	RV 350 - 013 - B	13	0.51	56	2.20	43	1.69			544	1224	627	1409	9,5	0.58	0,18	0.39	✓
RV 350 - 016 - A	RV 350 - 016 - B	16	0.63	62	2.44	46	1.81			554	1245	641	1440	11,2	0.68	0,19	0.41	✓
RV 350 - 019 - A	RV 350 - 019 - B	19	0.75	68	2.68	49	1.93			561	1261	651	1463	13,0	0.79	0,19	0.43	✓
RV 350 - 025 - A	RV 350 - 025 - B	25	0.98	80	3.15	55	2.17			571	1283	665	1496	16,6	1.01	0,21	0.47	✓
RV 350 - 032 - A	RV 350 - 032 - B	32	1.26	94	3.70	62	2.44			578	1300	676	1520	20,7	1.26	0,24	0.52	✓
RV 350 - 038 - A	RV 350 - 038 - B	38	1.50	106	4.17	68	2.68			583	1310	683	1535	24,3	1.48	0,26	0.56	✓
RV 350 - 050 - A	RV 350 - 050 - B	50	1.97	130	5.12	80	3.15			589	1323	691	1554	31,4	1.92	0,30	0.65	✓
RV 350 - 063 - A	RV 350 - 063 - B	63	2.48	156	6.14	93	3.66			593	1333	697	1568	39,1	2.39	0,34	0.74	✓
RV 350 - 075 - A	RV 350 - 075 - B	75	2.95	180	7.09	105	4.13			595	1338	701	1576	46,3	2.83	0,38	0.83	✓
RV 350 - 080 - A	RV 350 - 080 - B	80	3.15	190	7.48	110	4.33	596	1340	702	1579	49,2	3.00	0,39	0.86	✓		
RV 350 - 100 - A	RV 350 - 100 - B	100	3.94	230	9.06	130	5.12	599	1346	706	1588	61,1	3.73	0,46	1.01	✓		
RV 350 - 125 - A	RV 350 - 125 - B	125	4.92	280	11.02	155	6.10	606	1363	717	1613	74,9	4.57	0,54	1.18	✓		

♦ Disposable



**HOW TO ORDER** p. 57

**INSTALLATION GUIDELINE** p. 205

ISO 11901 - 3	VDI 3003 - Blatt 3	B2 4005 (BMW)	075.90.60 (FCA)
W-DX35-6204 (Ford)	B8 3180 220 000 004(MB)	K 32 H (Nissan)	E24.54.815.G (PSA)
EM24.54.700 (Renault)	39D 997 (VW)		



**ACTIVE SAFETY**



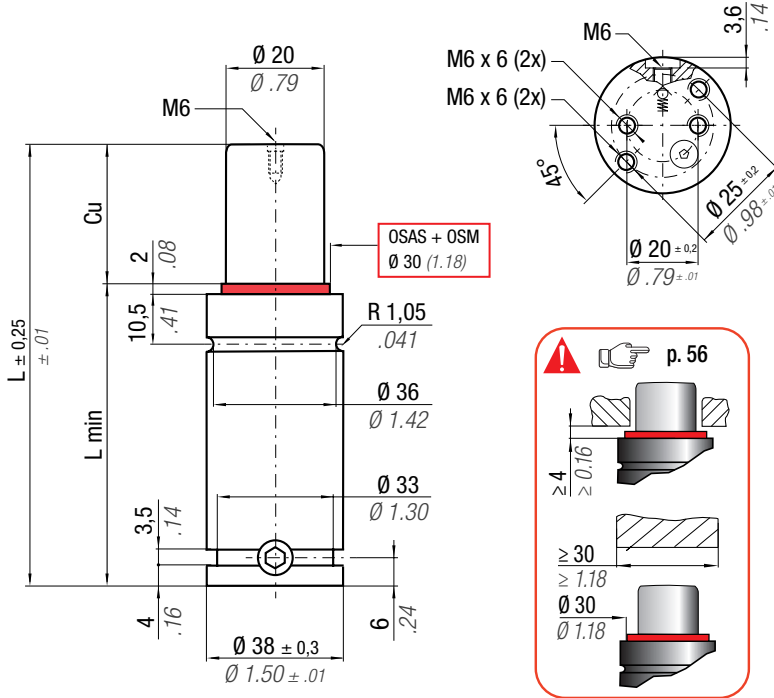
OSAS



USAS



OPAS



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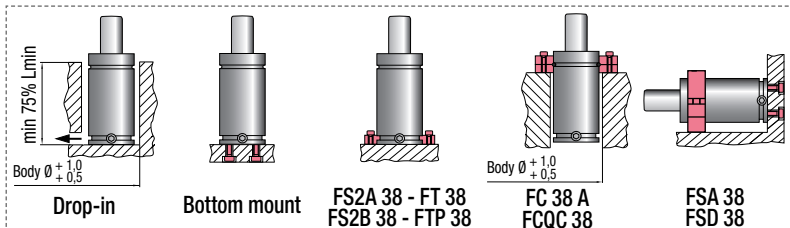
**easu** MANIFOLD p. 247

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

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

		0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 3,14 cm <sup>2</sup> 0.487 in <sup>2</sup>	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMRV00500C
CODE		Cu	L	L min	F0	F <sub>1i</sub> *	F <sub>1p</sub> **	V0	
PHASING OUT from 04/2021	NEW	mm inch	mm inch	mm inch	Initial force daN lb	End force * daN lb	End force ** daN lb	cm <sup>3</sup> in <sup>3</sup>	~Kg ~lb
RV 500 - 010 - A	◆ RV 500 - 010 - B	10 0.39	50 1.97	40 1.57	470 1057 ± 5% 150 bar 2175psi + 20 °C +68 °F	696 1565	828 1862	11,2 0.68	0,27 0.60
RV 500 - 013 - A	RV 500 - 013 - B	13 0.51	56 2.20	43 1.69		716 1609	859 1931	13,8 0.84	0,25 0.55
RV 500 - 016 - A	RV 500 - 016 - B	16 0.63	62 2.44	46 1.81		730 1641	882 1982	16,3 0.99	0,26 0.57
RV 500 - 019 - A	RV 500 - 019 - B	19 0.75	68 2.68	49 1.93		740 1664	899 2020	18,9 1.15	0,28 0.62
RV 500 - 025 - A	RV 500 - 025 - B	25 0.98	80 3.15	55 2.17		755 1698	922 2074	24,0 1.46	0,31 0.68
RV 500 - 032 - A	RV 500 - 032 - B	32 1.26	94 3.70	62 2.44		766 1723	941 2115	30,0 1.83	0,34 0.75
RV 500 - 038 - A	RV 500 - 038 - B	38 1.50	106 4.17	68 2.68		773 1738	952 2140	35,1 2.14	0,37 0.82
RV 500 - 050 - A	RV 500 - 050 - B	50 1.97	130 5.12	80 3.15		782 1759	967 2173	45,3 2.76	0,43 0.95
RV 500 - 063 - A	RV 500 - 063 - B	63 2.48	156 6.14	93 3.66		789 1773	977 2196	56,4 3.44	0,49 1.08
RV 500 - 075 - A	RV 500 - 075 - B	75 2.95	180 7.09	105 4.13		792 1782	984 2211	66,6 4.06	0,54 1.19
RV 500 - 080 - A	RV 500 - 080 - B	80 3.15	190 7.48	110 4.33		794 1785	986 2216	70,8 4.32	0,57 1.26
RV 500 - 100 - A	RV 500 - 100 - B	100 3.94	230 9.06	130 5.12		798 1794	992 2231	87,9 5.36	0,66 1.46
RV 500 - 125 - A	RV 500 - 125 - B	125 4.92	280 11.02	155 6.10		801 1801	998 2243	109,2 6.66	0,78 1.72

◆ Disposable



**HOW TO ORDER**

p. 57

**INSTALLATION GUIDELINE**

p. 205

# 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

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OSAS



USAS

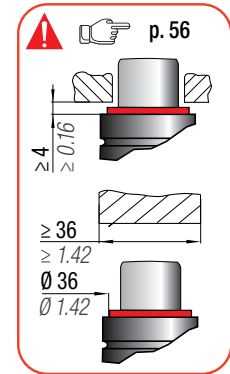
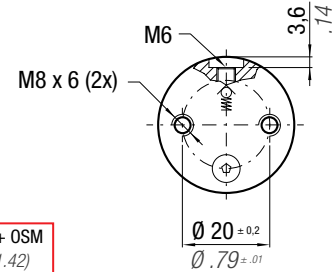
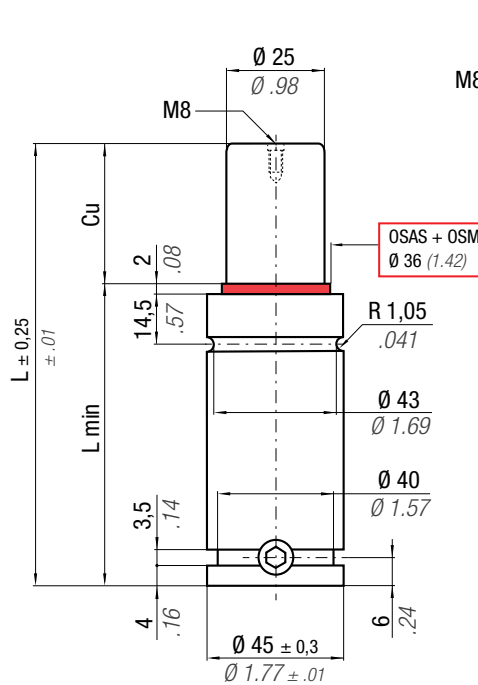


OPAS

**easu** MANIPOL p. 247

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

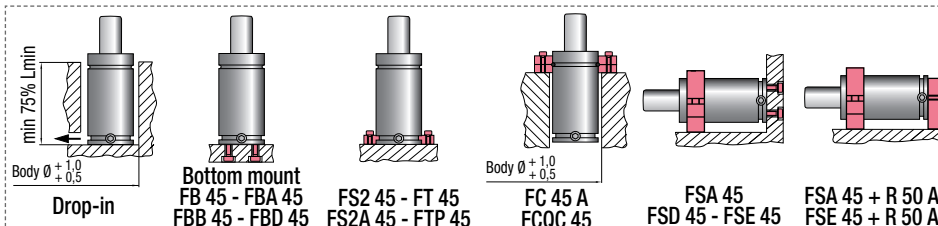
\*\*  $F_{1p}$  = Polyphoric end force at 100% Cu



N <sub>2</sub>	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 4,91 cm <sup>2</sup> 0,761 in <sup>2</sup>	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMRV00750C
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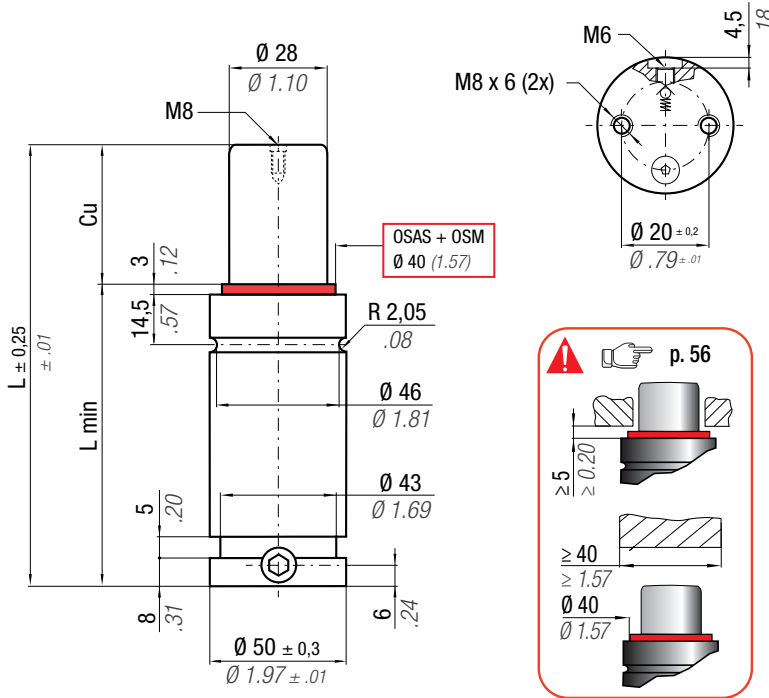
CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F <sub>0</sub>		F <sub>1i</sub> *		F <sub>1p</sub> **		V <sub>0</sub>		PED 2014/68/EU			
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		~Kg	~lb	
RV 750 - 010 - A	♦ RV 750 - 010 - B	10	0.39	52	2.05	42	1.65	740 ± 5%	1664	1118	2514	1343	3018	16,6	1.01	0,36	0,79	✓	
RV 750 - 013 - A	RV 750 - 013 - B	13	0.51	58	2.28	45	1.77			1152	2590	1396	3139	20,4	1.24	0,38	0,84	✓	
RV 750 - 016 - A	RV 750 - 016 - B	16	0.63	64	2.52	48	1.89			1176	2644	1435	3227	24,1	1.47	0,40	0,88	✓	
RV 750 - 019 - A	RV 750 - 019 - B	19	0.75	70	2.76	51	2.01			1194	2685	1465	3293	27,9	1.70	0,42	0,93	✓	
RV 750 - 025 - A	RV 750 - 025 - B	25	0.98	82	3.23	57	2.24			1220	2743	1507	3388	35,5	2.17	0,45	0,99	✓	
RV 750 - 032 - A	RV 750 - 032 - B	32	1.26	96	3.78	64	2.52			1240	2787	1539	3460	44,3	2.70	0,50	1.10	✓	
RV 750 - 038 - A	RV 750 - 038 - B	38	1.50	108	4.25	70	2.76			150 bar	1251	2813	1558	3503	51,9	3.17	0,54	1.19	✓
RV 750 - 050 - A	RV 750 - 050 - B	50	1.97	132	5.20	82	3.23			2175psi	1267	2848	1584	3562	67,0	4.09	0,61	1.34	✓
RV 750 - 063 - A	RV 750 - 063 - B	63	2.48	158	6.22	95	3.74			+ 20 °C + 68 °F	1278	2873	1602	3602	83,4	5.09	0,70	1.54	✓
RV 750 - 075 - A	RV 750 - 075 - B	75	2.95	182	7.17	107	4.21			1285	2888	1614	3628	98,5	6.01	0,78	1.72	✓	
RV 750 - 080 - A	RV 750 - 080 - B	80	3.15	192	7.56	112	4.41	1287	2893	1618	3637	104,8	6.40	0,81	1.79	✓			
RV 750 - 100 - A	RV 750 - 100 - B	100	3.94	232	9.13	132	5.20	1294	2909	1629	3663	130,1	7.94	0,94	2.07	✓			
RV 750 - 125 - A	RV 750 - 125 - B	125	4.92	282	11.10	157	6.18	1300	2922	1639	3685	161,6	9.86	1,10	2.43	✓			

♦ Disposable



**HOW TO ORDER** p. 57

**INSTALLATION GUIDELINE** p. 205



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



**ACTIVE SAFETY**



OSAS



USAS



OPAS

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

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

Der neue Kode wird nur angegeben, wenn der alte nicht mehr lieferbar ist

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

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

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

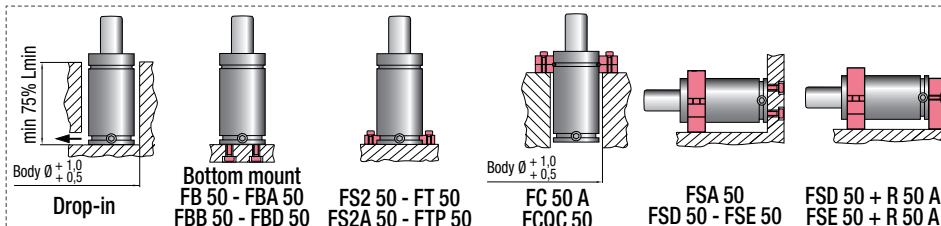
**easu** MANIFOLD p. 247

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

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

	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 6,15 cm <sup>2</sup> 0.953 in <sup>2</sup>	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMRV01000C																																	
CODE PHASING OUT from 04/2021	NEW	Cu	L	L min	F0	F <sub>1i</sub> *	F <sub>1p</sub> **	V0																																	
RV 1000 - 010 - A	◆ RV 1000 - 010 - B	10 0.39	58 2.28	48 1.89	920 2068 ± 5%	1321 2969 1554 3494	1554 3494	23,7 1.45	0,49 1.08																																
RV 1000 - 013 - A	◆ RV 1000 - 013 - B	13 0.51	64 2.52	51 2.01						1370 3079 1631 3667	1631 3667	28,4 1.73	0,51 1.12																												
RV 1000 - 016 - A	RV 1000 - 016 - B	16 0.63	70 2.76	54 2.13										1407 3163 1690 3800	1690 3800	33,1 2.02	0,54 1.19																								
RV 1000 - 019 - A	RV 1000 - 019 - B	19 0.75	76 2.99	57 2.24														1436 3229 1737 3906	1737 3906	37,7 2.30	0,56 1.23																				
RV 1000 - 025 - A	RV 1000 - 025 - B	25 0.98	88 3.46	63 2.48																		1479 3326 1807 4062	1807 4062	47,1 2.87	0,61 1.34																
RV 1000 - 032 - A	RV 1000 - 032 - B	32 1.26	102 4.02	70 2.76																						1514 3403 1863 4187	1863 4187	58,0 3.54	0,67 1.48												
RV 1000 - 038 - A	RV 1000 - 038 - B	38 1.50	114 4.49	76 2.99																										1535 3451 1897 4266	1897 4266	67,4 4.11	0,72 1.59								
RV 1000 - 050 - A	RV 1000 - 050 - B	50 1.97	138 5.43	88 3.46																														1564 3517 1946 4375	1946 4375	86,1 5.25	0,81 1.79				
RV 1000 - 063 - A	RV 1000 - 063 - B	63 2.48	164 6.46	101 3.98																																		1585 3564 1981 4453	1981 4453	106,3 6.49	0,92 2.03
RV 1000 - 075 - A	RV 1000 - 075 - B	75 2.95	188 7.40	113 4.45																																					
RV 1000 - 080 - A	RV 1000 - 080 - B	80 3.15	198 7.80	118 4.65	1603 3605 2011 4520	2011 4520	132,8 8.10	1,05 2.31																																	
RV 1000 - 100 - A	RV 1000 - 100 - B	100 3.94	238 9.37	138 5.43					1618 3636 2034 4573	2034 4573	164,0 10.01	1,21 2.67																													
RV 1000 - 125 - A	RV 1000 - 125 - B	125 4.92	288 11.34	163 6.42									1629 3663 2054 4617	2054 4617	202,9 12.38	1,41 3.11																									

◆ Disposable



**HOW TO ORDER**

p. 57

**INSTALLATION GUIDELINE**

p. 205





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

## ACTIVE SAFETY



OSAS



USAS

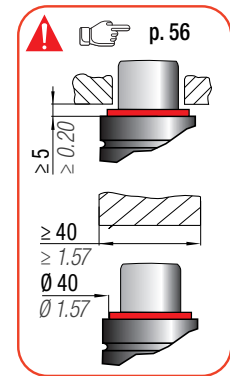
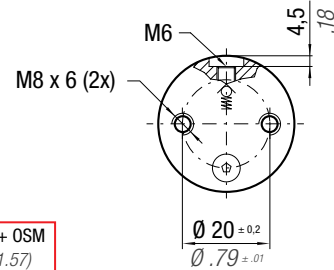
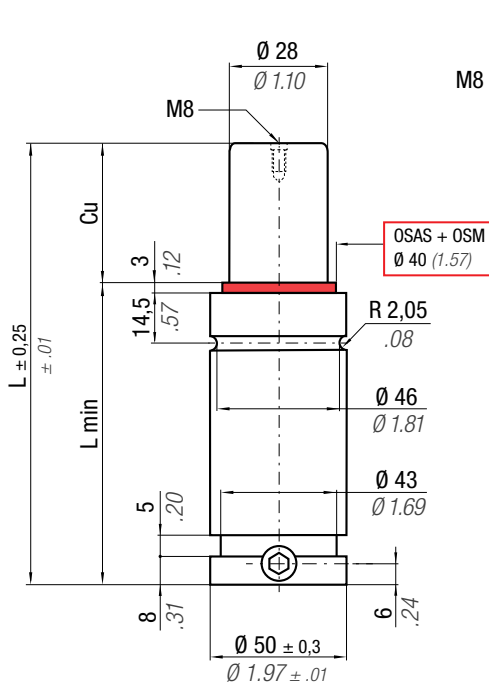


OPAS

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

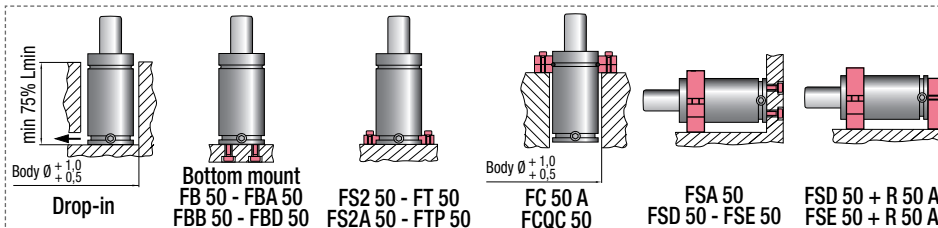
**easu** MANIPOL p. 247

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



N <sub>2</sub>		0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 170 bar 2465 psi	P min 20 bar 290 psi	S 6,15 cm <sup>2</sup> 0,953 in <sup>2</sup>	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMRV01000C
CODE PHASING OUT from 04/2021	NEW	Cu	L	L min	F <sub>0</sub>	F <sub>1i</sub> *	F <sub>1p</sub> **	V <sub>0</sub>	
		mm / inch	mm / inch	mm / inch	daN / lb	daN / lb	daN / lb	cm <sup>3</sup> / in <sup>3</sup>	~Kg / ~lb
RV 1200 - 010 - A	♦ RV 1200 - 010 - B	10 / 0.39	58 / 2.28	48 / 1.89	1046 ± 5% 2352	1519 / 3414	1752 / 3939	23,7 / 1,45	0,49 / 1,08
RV 1200 - 013 - A	♦ RV 1200 - 013 - B	13 / 0.51	64 / 2.52	51 / 2.01		1577 / 3546	1839 / 4135	28,4 / 1,73	0,51 / 1,12
RV 1200 - 016 - A	RV 1200 - 016 - B	16 / 0.63	70 / 2.76	54 / 2.13		1622 / 3646	1906 / 4284	33,1 / 2,02	0,54 / 1,19
RV 1200 - 019 - A	RV 1200 - 019 - B	19 / 0.75	76 / 2.99	57 / 2.24		1657 / 3725	1959 / 4403	37,7 / 2,30	0,56 / 1,23
RV 1200 - 025 - A	RV 1200 - 025 - B	25 / 0.98	88 / 3.46	63 / 2.48		1709 / 3841	2037 / 4579	47,1 / 2,87	0,61 / 1,34
RV 1200 - 032 - A	RV 1200 - 032 - B	32 / 1.26	102 / 4.02	70 / 2.76		1750 / 3934	2100 / 4721	58,0 / 3,54	0,67 / 1,48
RV 1200 - 038 - A	RV 1200 - 038 - B	38 / 1.50	114 / 4.49	76 / 2.99		1776 / 3992	2139 / 4809	67,4 / 4,11	0,72 / 1,59
RV 1200 - 050 - A	RV 1200 - 050 - B	50 / 1.97	138 / 5.43	88 / 3.46		1811 / 4072	2194 / 4932	86,1 / 5,25	0,81 / 1,79
RV 1200 - 063 - A	RV 1200 - 063 - B	63 / 2.48	164 / 6.46	101 / 3.98		1836 / 4128	2233 / 5020	106,3 / 6,49	0,92 / 2,03
RV 1200 - 075 - A	RV 1200 - 075 - B	75 / 2.95	188 / 7.40	113 / 4.45		1853 / 4165	2258 / 5077	125,0 / 7,63	1,01 / 2,23
RV 1200 - 080 - A	RV 1200 - 080 - B	80 / 3.15	198 / 7.80	118 / 4.65	1858 / 4177	2267 / 5096	132,8 / 8,10	1,05 / 2,31	
RV 1200 - 100 - A	RV 1200 - 100 - B	100 / 3.94	238 / 9.37	138 / 5.43	1875 / 4215	2293 / 5156	164,0 / 10,01	1,21 / 2,67	
RV 1200 - 125 - A	RV 1200 - 125 - B	125 / 4.92	288 / 11.34	163 / 6.42	1889 / 4247	2315 / 5205	202,9 / 12,38	1,41 / 3,11	

♦ Disposable



## HOW TO ORDER

p. 57

## INSTALLATION GUIDELINE

p. 205



**ACTIVE SAFETY**



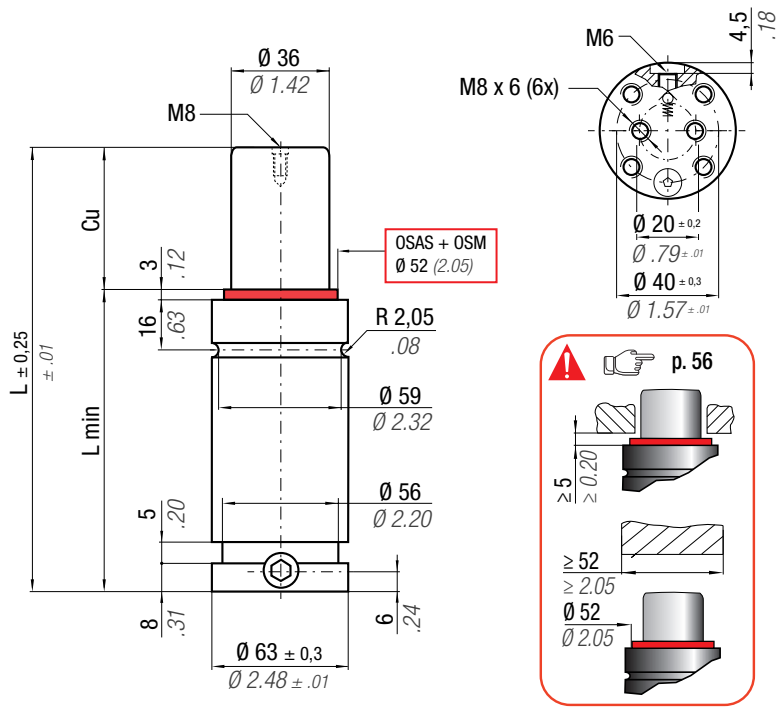
OSAS



USAS



OPAS



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

Il nuovo codice sarà fornito solo ad esaurimento del vecchio  
 The new code will be supplied only when the old will be out of stock  
 Der neue Kode wird nur angegeben, wenn der alte nicht mehr lieferbar ist  
 Le nouveau code sera fourni uniquement lorsque le vieux stock sera écoulé  
 El nuevo código será suministrado sólo cuando se agoten las existencias del antiguoguo  
 O novo código irá ser fornecido apenas quando o antigo esgotar stock

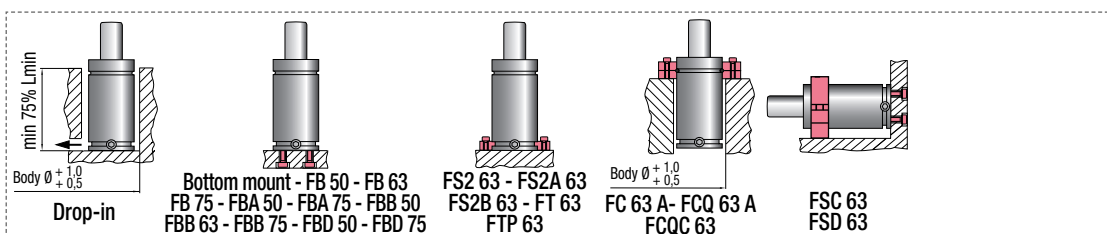
**easu** MANIFOLD p. 247

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

	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	<b>P max</b> 150 bar 2175 psi	<b>P min</b> 20 bar 290 psi	<b>S</b> 10,18 cm <sup>2</sup> 1.578 in <sup>2</sup>	<b>SPM</b> ~ 20 - 100 (at 20°C)	<b>Max Speed</b> 1,8 m/s 70.8 in/s	<b>Maintenance kit</b> 39BMRV01500C
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F0 Initial force		F <sub>1i</sub> * End force *		F <sub>1p</sub> ** End force **		V0		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>	~Kg	~lb	✓
RV 1500 - 010 - B	◆ RV 1500 - 010 - C	10	0.39	64	2.52	54	2.13	1530 ± 5%	3440	2089	4697	2424	5448	44	2.69	0,88	1.94	✓
RV 1500 - 013 - B	◆ RV 1500 - 013 - C	13	0.51	70	2.76	57	2.24			2168	4874	2546	5723	52	3.17	0,91	2.01	✓
RV 1500 - 016 - B	RV 1500 - 016 - C	16	0.63	76	2.99	60	2.36			2230	5012	2642	5939	60	3.66	0,96	2.12	✓
RV 1500 - 019 - B	RV 1500 - 019 - C	19	0.75	82	3.23	63	2.48			2279	5123	2720	6114	68	4.15	0,99	2.18	✓
RV 1500 - 025 - B	RV 1500 - 025 - C	25	0.98	94	3.70	69	2.72			2353	5290	2838	6380	84	5.13	1,06	2.34	✓
RV 1500 - 032 - B	RV 1500 - 032 - C	32	1.26	108	4.25	76	2.99			2414	5426	2935	6599	102	6.22	1,14	2.51	✓
RV 1500 - 038 - B	RV 1500 - 038 - C	38	1.50	120	4.72	82	3.23			2452	5512	2997	6738	118	7.20	1,21	2.67	✓
RV 1500 - 050 - B	RV 1500 - 050 - C	50	1.97	144	5.67	94	3.70			2506	5633	3085	6935	149	9.09	1,36	3.00	✓
RV 1500 - 063 - B	RV 1500 - 063 - C	63	2.48	170	6.69	107	4.21			2544	5720	3148	7078	184	11.23	1,52	3.35	✓
RV 1500 - 075 - B	RV 1500 - 075 - C	75	2.95	194	7.64	119	4.69			2570	5777	3190	7172	215	13.12	1,66	3.66	✓
RV 1500 - 080 - B	RV 1500 - 080 - C	80	3.15	204	8.03	124	4.88	2578	5797	3204	7204	229	13.97	1,72	3.79	✓		
RV 1500 - 100 - B	RV 1500 - 100 - C	100	3.94	244	9.61	144	5.67	2605	5857	3249	7303	281	17.15	1,95	4.30	✓		
RV 1500 - 125 - B	RV 1500 - 125 - C	125	4.92	294	11.57	169	6.65	2628	5907	3286	7387	347	21.18	2,24	4.94	✓		

◆ Disposable



**HOW TO ORDER** p. 57

**INSTALLATION GUIDELINE** p. 205

# 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



OSAS



USAS

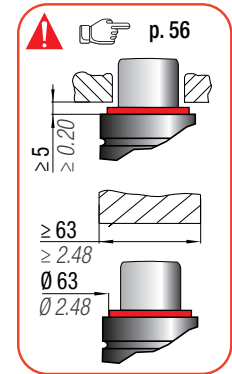
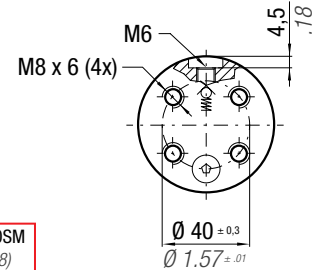
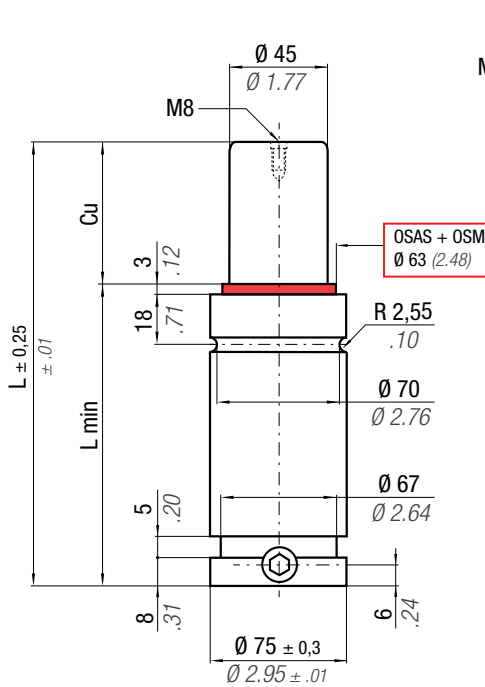


OPAS

Il nuovo codice sarà fornito solo ad esaurimento del vecchio  
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Der neue Kode wird nur angegeben, wenn der alte nicht mehr lieferbar ist  
Le nouveau code sera fourni uniquement lorsque le vieux stock sera écoulé  
El nuevo código será suministrado sólo cuando se agoten las existencias del antiguo  
O novo código irá ser fornecido apenas quando o antigo esgotar stock

**easu** MANIPOL p. 247

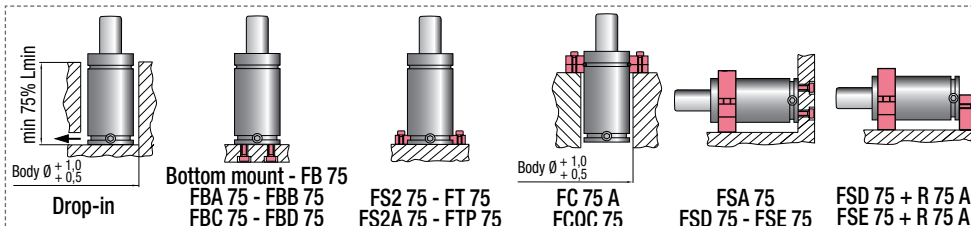
\*  $F_{1i}$  = Isothermal end force at 100% Cu p. 16  
\*\*  $F_{1p}$  = Polyphobic end force at 100% Cu



N <sub>2</sub>	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 15,90 cm <sup>2</sup> 2,465 in <sup>2</sup>	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70,8 in/s	Maintenance kit 39BMRV02400D
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F <sub>0</sub> Initial force		F <sub>1i</sub> * End force *		F <sub>1p</sub> ** End force **		V <sub>0</sub>		PED 2014/68/EU			
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		~Kg	~lb	
RV 2400 - 010 - A	♦ RV 2400 - 010 - B	10	0.39	65	2.56	55	2.17	2385 ± 5%	5362	3279	7372	3810	8564	68	4.15	1,25	2.76	✓	
RV 2400 - 013 - A	♦ RV 2400 - 013 - B	13	0.51	71	2.80	58	2.28			3409	7663	4010	9015	80	4.88	1,30	2.87	✓	
RV 2400 - 016 - A	♦ RV 2400 - 016 - B	16	0.63	77	3.03	61	2.40			3510	7891	4170	9374	92	5.61	1,35	2.98	✓	
RV 2400 - 019 - A	♦ RV 2400 - 019 - B	19	0.75	83	3.27	64	2.52			3592	8075	4299	9665	104	6.35	1,40	3.09	✓	
RV 2400 - 025 - A	RV 2400 - 025 - B	25	0.98	95	3.74	70	2.76			3716	8354	4498	10111	128	7.81	1,50	3.31	✓	
RV 2400 - 032 - A	RV 2400 - 032 - B	32	1.26	109	4.29	77	3.03			3818	8583	4662	10481	156	9.52	1,61	3.55	✓	
RV 2400 - 038 - A	RV 2400 - 038 - B	38	1.50	121	4.76	83	3.27			150 bar	3883	8728	4767	10717	180	10.98	1,70	3.75	✓
RV 2400 - 050 - A	RV 2400 - 050 - B	50	1.97	145	5.71	95	3.74			2175 psi	3974	8935	4917	11054	228	13.91	1,89	4.17	✓
RV 2400 - 063 - A	RV 2400 - 063 - B	63	2.48	171	6.73	108	4.25			+ 20 °C + 68 °F	4041	9083	5026	11299	280	17.09	2,10	4.63	✓
RV 2400 - 075 - A	RV 2400 - 075 - B	75	2.95	195	7.68	120	4.72				4084	9181	5098	11461	328	20.02	2,29	5.05	✓
RV 2400 - 080 - A	RV 2400 - 080 - B	80	3.15	205	8.07	125	4.92	4099	9215		5123	11517	348	21.24	2,37	5.22	✓		
RV 2400 - 100 - A	RV 2400 - 100 - B	100	3.94	245	9.65	145	5.71	4145	9318	5199	11688	428	26.12	2,68	5.91	✓			
RV 2400 - 125 - A	RV 2400 - 125 - B	125	4.92	295	11.61	170	6.69	4183	9405	5264	11833	528	32.22	3,07	6.77	✓			

♦ Disposable



**HOW TO ORDER** p. 57

**INSTALLATION GUIDELINE** p. 205

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)			



**ACTIVE SAFETY**



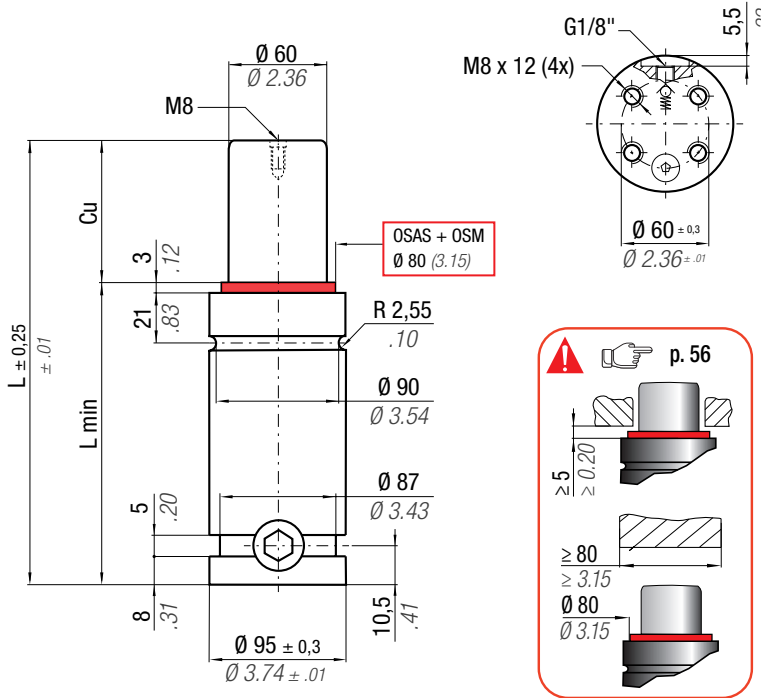
OSAS



USAS



OPAS



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

Il nuovo codice sarà fornito solo ad esaurimento del vecchio  
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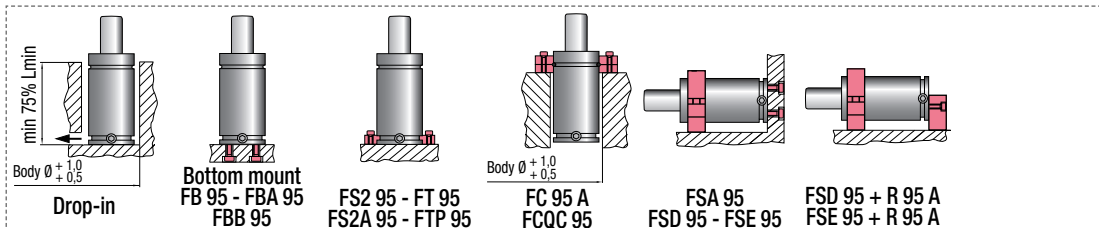
**easu** MANIFOLD p. 247

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

	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	<b>P max</b> 150 bar 2175 psi	<b>P min</b> 20 bar 290 psi	<b>S</b> 28,27 cm <sup>2</sup> 4.382 in <sup>2</sup>	<b>SPM</b> ~ 20 - 100 (at 20°C)	<b>Max Speed</b> 1,8 m/s 70.8 in/s	<b>Maintenance kit</b> 39BMRV04200C
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F0 Initial force		F1i * End force *		F1p ** End force **		V0		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>	~Kg	~lb	✓
RV 4200 - 016 - A	◆ RV 4200 - 016 - B	16	0.63	90	3.54	74	2.91	4240 ± 5% 150 bar 2175 psi + 20 °C +68 °F	9532	6103	13720	7197	16179	172	10.50	2,76	6.08	✓
RV 4200 - 019 - A	◆ RV 4200 - 019 - B	19	0.75	96	3.78	77	3.03			6269	14093	7458	16767	192	11.72	2,84	6.26	✓
RV 4200 - 025 - A	RV 4200 - 025 - B	25	0.98	108	4.25	83	3.27			6531	14682	7874	17702	232	14.16	2,99	6.59	✓
RV 4200 - 032 - A	RV 4200 - 032 - B	32	1.26	122	4.80	90	3.54			6755	15186	8236	18515	279	17.03	3,16	6.97	✓
RV 4200 - 038 - A	RV 4200 - 038 - B	38	1.50	134	5.28	96	3.78			6902	15517	8475	19052	320	19.53	3,31	7.30	✓
RV 4200 - 050 - A	RV 4200 - 050 - B	50	1.97	158	6.22	108	4.25			7117	16001	8827	19844	401	24.47	3,61	7.96	✓
RV 4200 - 063 - A	RV 4200 - 063 - B	63	2.48	184	7.24	121	4.76			7278	16361	9092	20440	488	29.78	3,94	8.69	✓
RV 4200 - 075 - A	RV 4200 - 075 - B	75	2.95	208	8.19	133	5.24			7386	16604	9272	20843	569	34.72	4,24	9.35	✓
RV 4200 - 080 - A	RV 4200 - 080 - B	80	3.15	218	8.58	138	5.43			7423	16687	9333	20982	603	36.80	4,36	9.61	✓
RV 4200 - 100 - A	RV 4200 - 100 - B	100	3.94	258	10.16	158	6.22			7539	16949	9529	21421	738	45.04	4,86	10.71	✓
RV 4200 - 125 - A	RV 4200 - 125 - B	125	4.92	308	12.13	183	7.20	7639	17173	9696	21798	906	55.29	5,48	12.08	✓		

◆ Disposable



**HOW TO ORDER**

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**INSTALLATION GUIDELINE**

p. 205

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

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OSAS



USAS

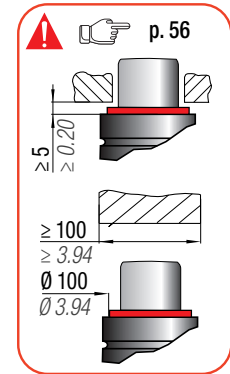
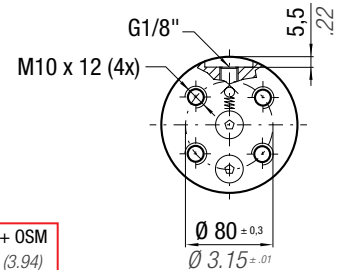
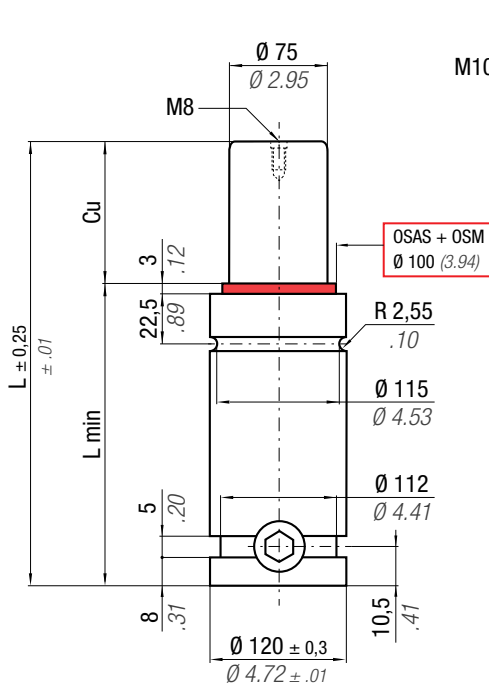


OPAS

**easu** MANIPOL p. 247

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

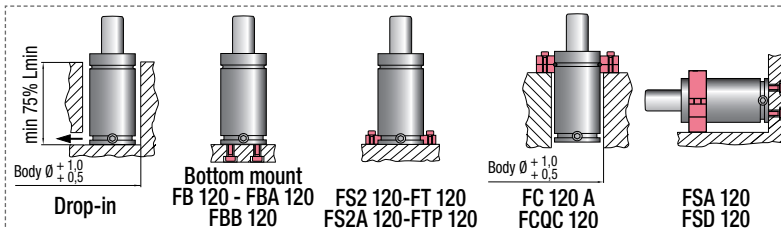
\*\*  $F_{1p}$  = Polyphoric end force at 100% Cu



N <sub>2</sub>	0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 44,18 cm <sup>2</sup> 6.848 in <sup>2</sup>	SPM ~ 20 - 100 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMRV06600C
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CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F <sub>0</sub> Initial force		F <sub>1i</sub> * End force *		F <sub>1p</sub> ** End force **		V <sub>0</sub>		PED 2014/68/EU									
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		~Kg	~lb							
RV 6600 - 016 - A	♦ RV 6600 - 016 - B	16	0.63	100	3.94	84	3.31	6630 ± 5% 14904 150 bar 2175 psi + 20 °C +68 °F	9141	20550	10631	23900	298	18.19	5,12	11.29	✓								
RV 6600 - 019 - A	♦ RV 6600 - 019 - B	19	0.75	106	4.17	87	3.43										9393	21115	11022	24777	330	20.14	5,23	11.53	✓
RV 6600 - 025 - A	RV 6600 - 025 - B	25	0.98	118	4.65	93	3.66										9799	22028	11658	26209	394	24.04	5,47	12.06	✓
RV 6600 - 032 - A	RV 6600 - 032 - B	32	1.26	132	5.20	100	3.94										10157	22834	12228	27490	469	28.62	5,75	12.68	✓
RV 6600 - 038 - A	RV 6600 - 038 - B	38	1.50	144	5.67	106	4.17										10397	23374	12614	28357	533	32.53	5,99	13.21	✓
RV 6600 - 050 - A	RV 6600 - 050 - B	50	1.97	168	6.61	118	4.65										10757	24183	13196	29666	661	40.34	6,47	14.26	✓
RV 6600 - 063 - A	RV 6600 - 063 - B	63	2.48	194	7.64	131	5.16										11031	24799	13645	30675	799	48.76	6,99	15.41	✓
RV 6600 - 075 - A	RV 6600 - 075 - B	75	2.95	218	8.58	143	5.63										11219	25221	13954	31369	927	56.57	7,47	16.47	✓
RV 6600 - 080 - A	RV 6600 - 080 - B	80	3.15	228	8.98	148	5.83										11284	25367	14061	31611	980	59.80	7,67	16.91	✓
RV 6600 - 100 - A	RV 6600 - 100 - B	100	3.94	268	10.55	168	6.61										11490	25832	14404	32381	1193	72.80	8,46	18.65	✓
RV 6600 - 125 - A	RV 6600 - 125 - B	125	4.92	318	12.52	193	7.60	11669	26234	14703	33053	1459	89.03	9,46	20.86	✓									

♦ Disposable



## HOW TO ORDER

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## INSTALLATION GUIDELINE

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



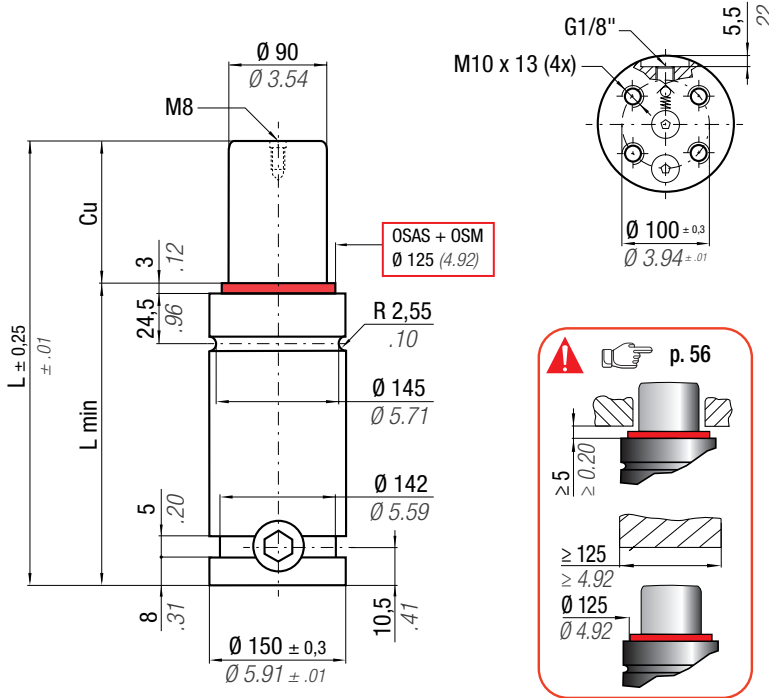
OSAS



USAS



OPAS



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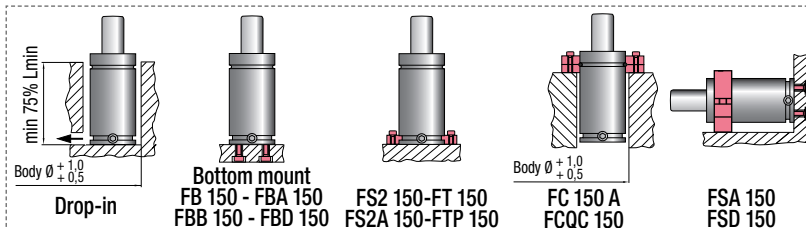
**easu** MANIFOLD p. 247

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

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

		0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 63,62 cm <sup>2</sup> 9.864 in <sup>2</sup>	SPM ~ 20 - 80 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMRV09500C
CODE	NEW	Cu	L	L min	F0	F <sub>1i</sub> *	F <sub>1p</sub> **	V0	
PHASING OUT from 04/2021		mm inch	mm inch	mm inch	Initial force daN lb	End force * daN lb	End force ** daN lb	cm <sup>3</sup> in <sup>3</sup>	-Kg -lb
RV 9500 - 019 - A	◆ RV 9500 - 019 - B	19 0.75	116 4.57	97 3.82	9540 21446 ± 5% 150 bar 2175 psi + 20 °C +68 °F	13135 29528	15265 34318	513 31.31	9,56 21.08
RV 9500 - 025 - A	RV 9500 - 025 - B	25 0.98	128 5.04	103 4.06		13676 30744	16105 36206	609 37.16	9,93 21.89
RV 9500 - 032 - A	RV 9500 - 032 - B	32 1.26	142 5.59	110 4.33		14156 31825	16862 37906	722 44.06	10,37 22.86
RV 9500 - 038 - A	RV 9500 - 038 - B	38 1.50	154 6.06	116 4.57		14480 32553	17376 39062	818 49.92	10,74 23.68
RV 9500 - 050 - A	RV 9500 - 050 - B	50 1.97	178 7.01	128 5.04		14967 33648	18156 40815	1010 61.63	11,49 25.33
RV 9500 - 063 - A	RV 9500 - 063 - B	63 2.48	204 8.03	141 5.55		15341 34487	18759 42173	1218 74.33	12,30 27.12
RV 9500 - 075 - A	RV 9500 - 075 - B	75 2.95	228 8.98	153 6.02		15597 35063	19177 43111	1411 86.10	13,05 28.77
RV 9500 - 080 - A	RV 9500 - 080 - B	80 3.15	238 9.37	158 6.22		15686 35264	19322 43439	1491 90.99	13,37 29.48
RV 9500 - 100 - A	RV 9500 - 100 - B	100 3.94	278 10.94	178 7.01		15970 35901	19788 44485	1811 110.51	14,61 32.21
RV 9500 - 125 - A	RV 9500 - 125 - B	125 4.92	328 12.91	203 7.99		16216 36455	20194 45398	2212 134.98	16,18 35.67

◆ Disposable



**HOW TO ORDER**

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**INSTALLATION GUIDELINE**

p. 205



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

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OSAS



USAS

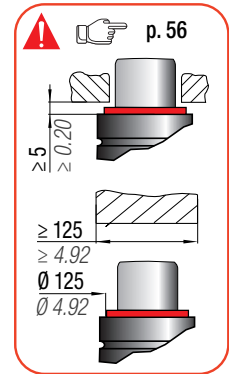
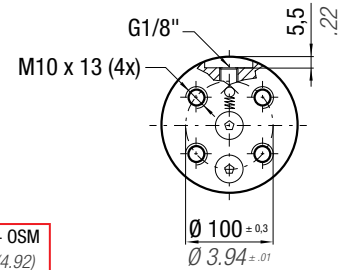
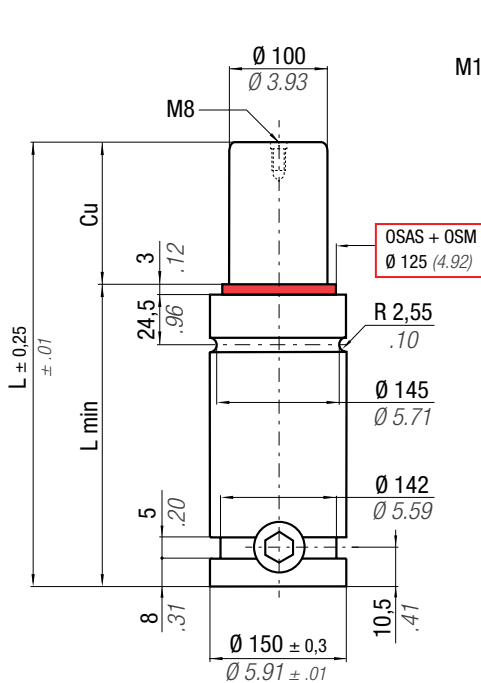


OPAS

**easu** MANIPOL p. 247

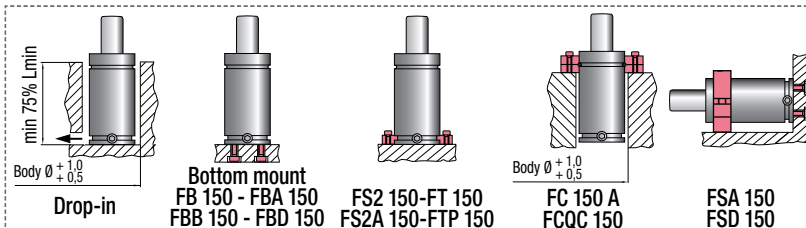
\*  $F_{1i}$  = Isothermal end force at 100% Cu p. 16

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



N <sub>2</sub>		0 - 80 °C 32 - 176 °F	$\Delta P$ ± 0,33 %/°C	P max 150 bar 2175 psi	P min 20 bar 290 psi	S 78,54 cm <sup>2</sup> 12.173 in <sup>2</sup>	SPM ~ 20 - 80 (at 20°C)	Max Speed 1,8 m/s 70.8 in/s	Maintenance kit 39BMRV12000A	
CODE PHASING OUT from 04/2021	NEW	Cu	L	L min	F <sub>0</sub>	F <sub>1i</sub> *	F <sub>1p</sub> **	V <sub>0</sub>		
RV 12000 - 019 - A	♦ RV 12000 - 019 - B	19 0.75	116 4.57	97 3.82	11780 26470 ± 5% 150 bar 2175 psi + 20 °C +68 °F	16936 38075	19966 44886	568 34.66	9,34 20.59	✓
RV 12000 - 025 - A	RV 12000 - 025 - B	25 0.98	128 5.04	103 4.06		17789 39991	21311 47910	671 40.95	9,73 21.45	✓
RV 12000 - 032 - A	RV 12000 - 032 - B	32 1.26	142 5.59	110 4.33		18565 41737	22555 50706	791 48.27	10,18 22.44	✓
RV 12000 - 038 - A	RV 12000 - 038 - B	38 1.50	154 6.06	116 4.57		19098 42935	23419 52648	894 54.56	10,57 23.30	✓
RV 12000 - 050 - A	RV 12000 - 050 - B	50 1.97	178 7.01	128 5.04		19916 44772	24759 55659	1101 67.19	11,35 25.02	✓
RV 12000 - 063 - A	RV 12000 - 063 - B	63 2.48	204 8.03	141 5.55		20555 46210	25820 58045	1324 80.80	12,20 26.90	✓
RV 12000 - 075 - A	RV 12000 - 075 - B	75 2.95	228 8.98	153 6.02		21001 47212	26566 59723	1531 93.43	12,97 28.59	✓
RV 12000 - 080 - A	RV 12000 - 080 - B	80 3.15	238 9.37	158 6.22		21157 47563	26829 60314	1617 98.68	13,30 29.32	✓
RV 12000 - 100 - A	RV 12000 - 100 - B	100 3.94	278 10.94	178 7.01		21659 48692	27677 62221	1961 119.67	14,60 32.19	✓
RV 12000 - 125 - A	RV 12000 - 125 - B	125 4.92	328 12.91	203 7.99		22101 49685	28430 63912	2391 145.91	16,22 35.76	✓

♦ Disposable



## HOW TO ORDER

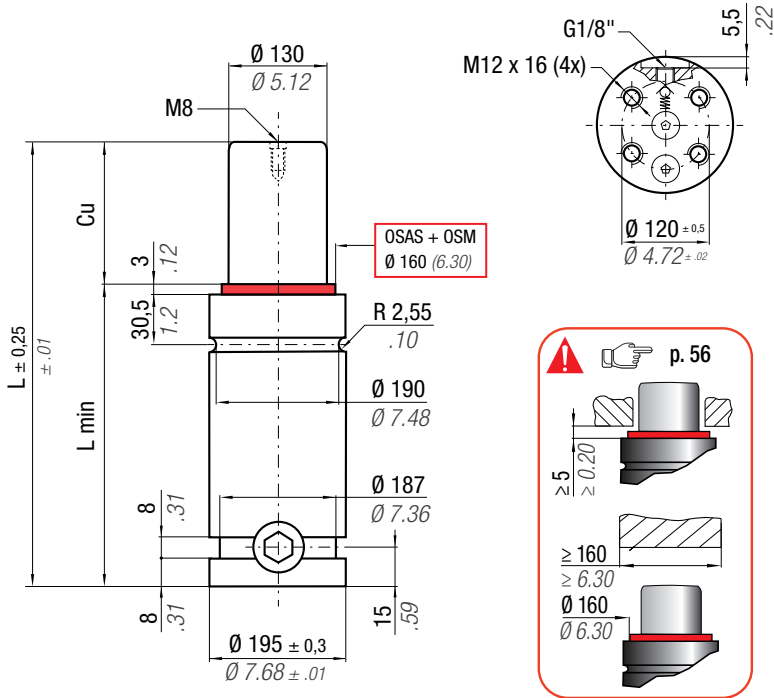
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## INSTALLATION GUIDELINE

p. 205



**ACTIVE SAFETY**



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**easu** MANIFOLD p. 247

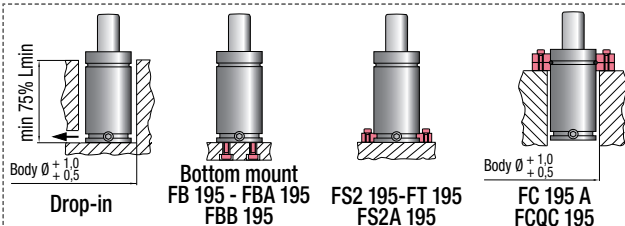
\*  $F_{1i}$  = Isothermal end force at 100% Cu p. 16

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

		$\Delta P$	<b>P max</b>	<b>P min</b>	<b>S</b>	<b>SPM</b>	<b>Max Speed</b>	<b>Maintenance kit</b>
N <sub>2</sub>	0 - 80 °C 32 - 176 °F	$\pm 0,33\% / ^\circ C$	150 bar 2175 psi	20 bar 290 psi	132,73 cm <sup>2</sup> 20.573 in <sup>2</sup>	~ 20 - 80 (at 20°C)	1,8 m/s 70.8 in/s	39BMRV20000A

CODE PHASING OUT from 04/2021	NEW	Cu		L		L min		F <sub>0</sub>		F <sub>1i</sub> *		F <sub>1p</sub> **		V <sub>0</sub>		PED 2014/68/EU		
		mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>	-Kg	-lb	
RV 20000 - 019 - A	◆ RV 20000 - 019 - B	19	0.75	148	5.83	129	5.08			27636	62128	32207	72404	1047	63.89	21,58	47.58	✓
RV 20000 - 025 - A	◆ RV 20000 - 025 - B	25	0.98	160	6.30	135	5.32			29099	65417	34490	77537	1215	74.14	22,29	49.14	✓
RV 20000 - 032 - A	RV 20000 - 032 - B	32	1.26	174	6.85	142	5.59	19910	44738	30485	68532	36688	82478	1411	86.10	23,12	50.97	✓
RV 20000 - 038 - A	RV 20000 - 038 - B	38	1.50	186	7.32	148	5.83			31467	70740	38266	86025	1580	96.42	23,84	52.56	✓
RV 20000 - 050 - A	RV 20000 - 050 - B	50	1.97	210	8.27	160	6.30			33024	74242	40801	91724	1916	116.92	25,26	55.69	✓
RV 20000 - 063 - A	RV 20000 - 063 - B	63	2.48	236	9.29	173	6.81			34290	77086	42889	96418	2280	139.13	26,80	59.08	✓
RV 20000 - 075 - A	RV 20000 - 075 - B	75	2.95	260	10.24	185	7.28			35196	79124	44401	99818	2617	159.70	28,22	62.21	✓
RV 20000 - 080 - A	RV 20000 - 080 - B	80	3.15	270	10.63	190	7.48		+ 20 °C +68 °F	35519	79850	44943	101035	2757	168.24	28,81	63.52	✓
RV 20000 - 100 - A	RV 20000 - 100 - B	100	3.94	310	12.21	210	8.27			36574	82222	46724	105039	3317	202.42	31,19	68.76	✓
RV 20000 - 125 - A	RV 20000 - 125 - B	125	4.92	360	14.17	235	9.25			37526	84361	48345	108683	4018	245.19	34,16	75.31	✓

◆ Disposable



**HOW TO ORDER**

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**INSTALLATION GUIDELINE**

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