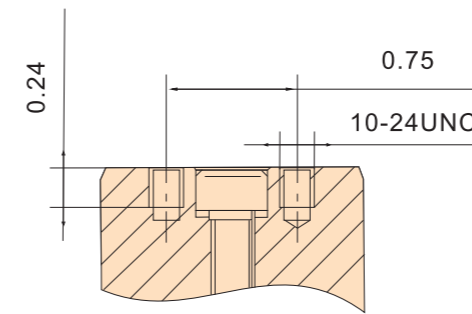


BMS SERIES S/A GENERAL PURPOSE CYLINDERS

CAPACITY: 5-1000T
 MAX. PRESSURE: 700 Bar
 SPRING RETURN



The BMS-series is a general purpose spring return cylinder designed for use in production, maintenance and fabrication applications. All BMS-series cylinders feature a hard chrome cylinder bore and piston rod for maximum corrosion resistance. When combined with the bronze overlay on the piston bearing area and low friction surface treatment on the gland nut, this cylinder is suitable for the demanding applications. Cylinder body mounting threads and base mounting holes are included on most models. Optional tilt saddles are available for all models.



Saddle Selection

Cylinder Capacity	Saddle Model	Cylinder Capacity	Saddle Model
ton		ton	
5	-	30	ST-50
10	ST-10	50	ST-100
15	ST-10	75	ST-100
25	ST-50	100	ST-100

Hardened alloy steel guide ring eliminates over travel and provides support to reduce wear from off center loads

High strength alloy steel body is precision machined to reduce wear and features a baked enamel finish for durability and corrosion protection

Hardened and chromed piston reduces wear and corrosion

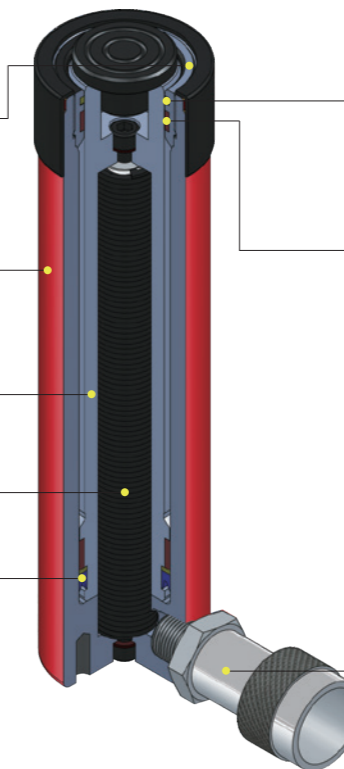
Heavy-duty, straight pull return springs provide quick retraction times

Industrial U-cup style seal prevents costly leaks

Heavy-duty wiper ring keeps dust and debris out of the cylinder body, improving performance and service life of the cylinder

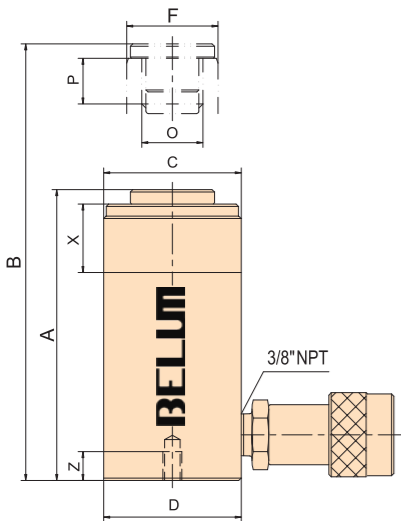
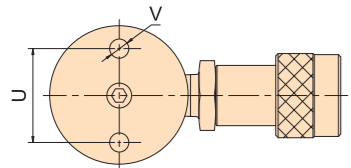
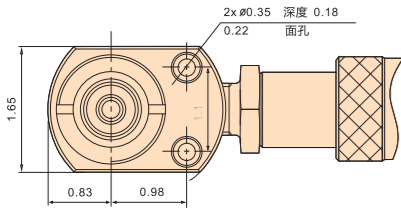
High strength composite bearing provides support for off center loads without damaging the cylinder walls

Standard coupler provided with dust cover



80% Safety Practices

Good industry practice recommends not exceeding 80% of the max. rated capacity.



Model	Capacity @10,000 PSI (700 BAR)	Stroke	Effective Area	Oil Capacity	Closed Height		Extended Height	
					A	B		
					Metric Ton	mm		cm ²
BMS-50	5	16	7.1	11.4	42	58		
BMS-51		25	7.1	17.8	110	135		
BMS-53		75	7.1	53.3	165	240		
BMS-55		127	7.1	90.2	215	342		
BMS-57		177	7.1	125.7	273	450		
BMS-59		232	7.1	164.7	323	555		
BMS-101	10	26	14.5	37.7	89	115		
BMS-102		54	14.5	78.3	121	175		
BMS-104		105	14.5	152.25	171	276		
BMS-106		156	14.5	226.2	247	403		
BMS-108		203	14.5	294.35	298	501		
BMS-1010		257	14.5	372.65	349	606		
BMS-1012		304	14.5	440.8	400	704		
BMS-1014		356	14.5	516.2	450	806		
BMS-151		15	25	21.2	53	124	149	
BMS-152			51	21.2	108.12	149	200	
BMS-154	101		21.2	214.12	200	301		
BMS-156	152		21.2	322.24	271	423		
BMS-158	203		21.2	430.36	322	525		
BMS-1510	254		21.2	538.48	373	627		
BMS-1512	305		21.2	646.6	423	728		
BMS-1514	356		21.2	754.72	474	830		
BMS-251	25		26	33.2	86.32	139	165	
BMS-252			50	33.2	166	165	215	
BMS-254		102	33.2	338.64	215	317		
BMS-256		158	33.2	524.56	273	431		
BMS-258		210	33.2	697.2	323	533		
BMS-2510		261	33.2	866.52	374	635		
BMS-2512		311	33.2	1032.52	425	736		
BMS-2514		362	33.2	1201.84	476	838		
BMS-308		30	209	44.2	923.78	387	596	
BMS-502		50	51	70.9	361.59	176	227	
BMS-504	102		70.9	723.18	227	329		
BMS-506	159		70.9	1127.31	282	441		
BMS-5013	337		70.9	2389.33	460	797		
BMS-756	75	156	103.9	1620.84	285	441		
BMS-7513		333	103.9	3459.87	492	825		
BMS-1006	100	168	133	2234.4	357	525		
BMS-10010		260	133	3458	449	709		

Collar Thread	Collar Thread Length	Outside Diam.	Piston Diam.	Piston Inner Thread	Inner Thread Length	Base Mounting Hole			Weight	Model
						Bolt Circle	Thread	Thread Depth		
						C	X	Z		
-	-	59x42	25	-	-	U	V	Z	0.8	BMS-50
1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	1.0	BMS-51
1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	1.3	BMS-53
1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	1.7	BMS-55
1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	2.1	BMS-57
1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	2.3	BMS-59
2.1/4" - 14 UN	26	57	38	**	-	39	5/16" - 18 UN	12	1.7	BMS-101
2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	2.2	BMS-102
2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	2.9	BMS-104
2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	4.1	BMS-106
2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	4.9	BMS-108
2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	5.6	BMS-1010
2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	6.4	BMS-1012
2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	7.2	BMS-1014
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	3.2	BMS-151
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	3.7	BMS-152
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	5.0	BMS-154
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	6.5	BMS-156
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	7.7	BMS-158
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	8.7	BMS-1510
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	9.8	BMS-1512
2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	10.8	BMS-1514
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	5.3	BMS-251
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	6.2	BMS-252
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	8.0	BMS-254
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	10.3	BMS-256
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	12.1	BMS-258
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	14.1	BMS-2510
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	15.5	BMS-2512
3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	17.4	BMS-2514
3.5/16" - 12 UN	50	102	57	1.1/2" - 16 UN	26	-	-	-	21.5	BMS-308
5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	14.4	BMS-502
5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	18.1	BMS-504
5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	22.2	BMS-506
5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	34.3	BMS-5013
5.3/4" - 12 UN	45	146	95	-	-	-	-	-	30.5	BMS-756
5.3/4" - 12 UN	45	146	95	-	-	-	-	-	50.3	BMS-7513
6.7/8" - 12 UN	44	178	105	-	-	139	3/4" - 10 UN	25	59.7	BMS-1006
6.7/8" - 12 UN	44	178	105	-	-	139	3/4" - 10 UN	25	72.9	BMS-10010