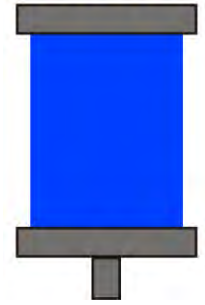
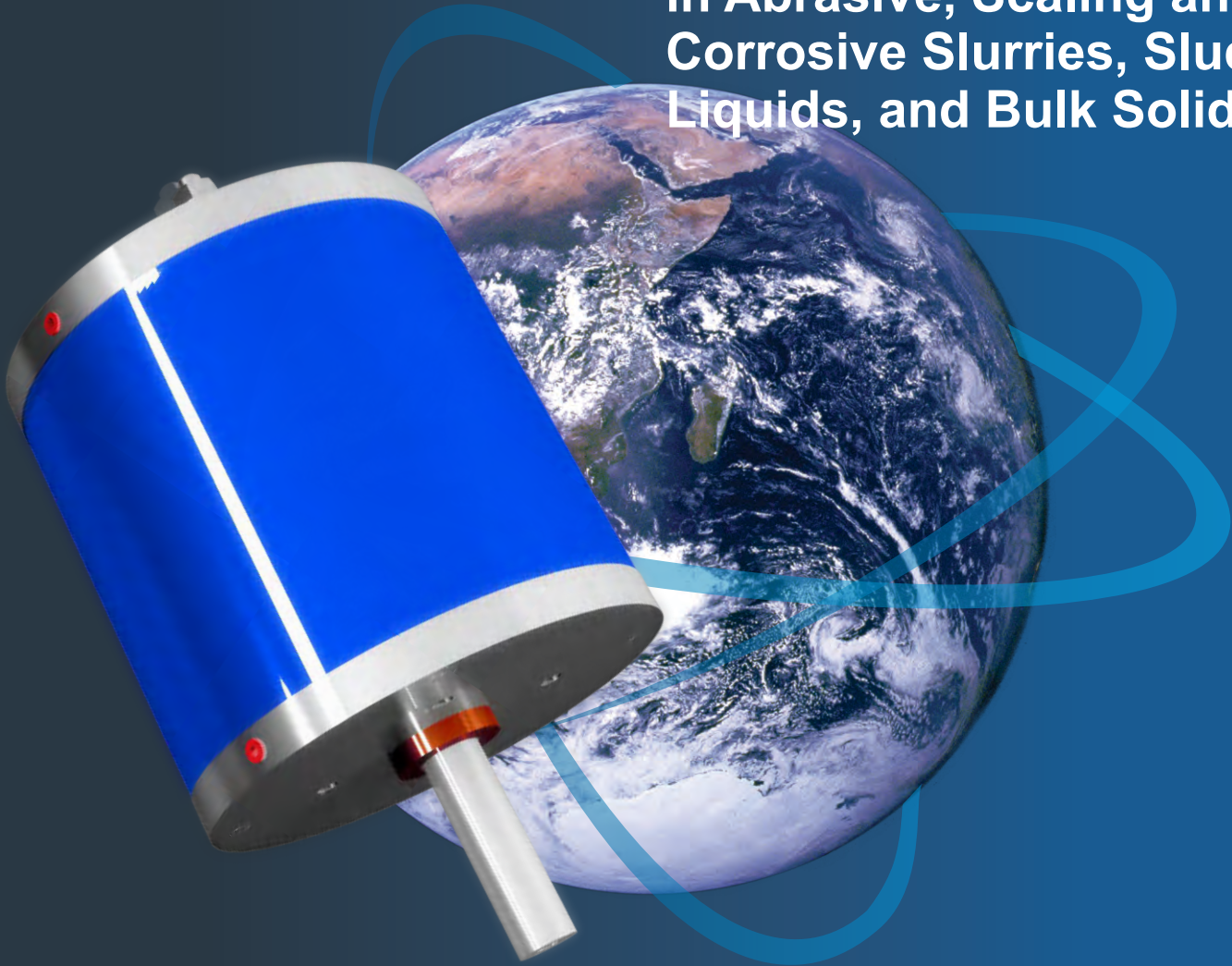




Tovi
Actuators



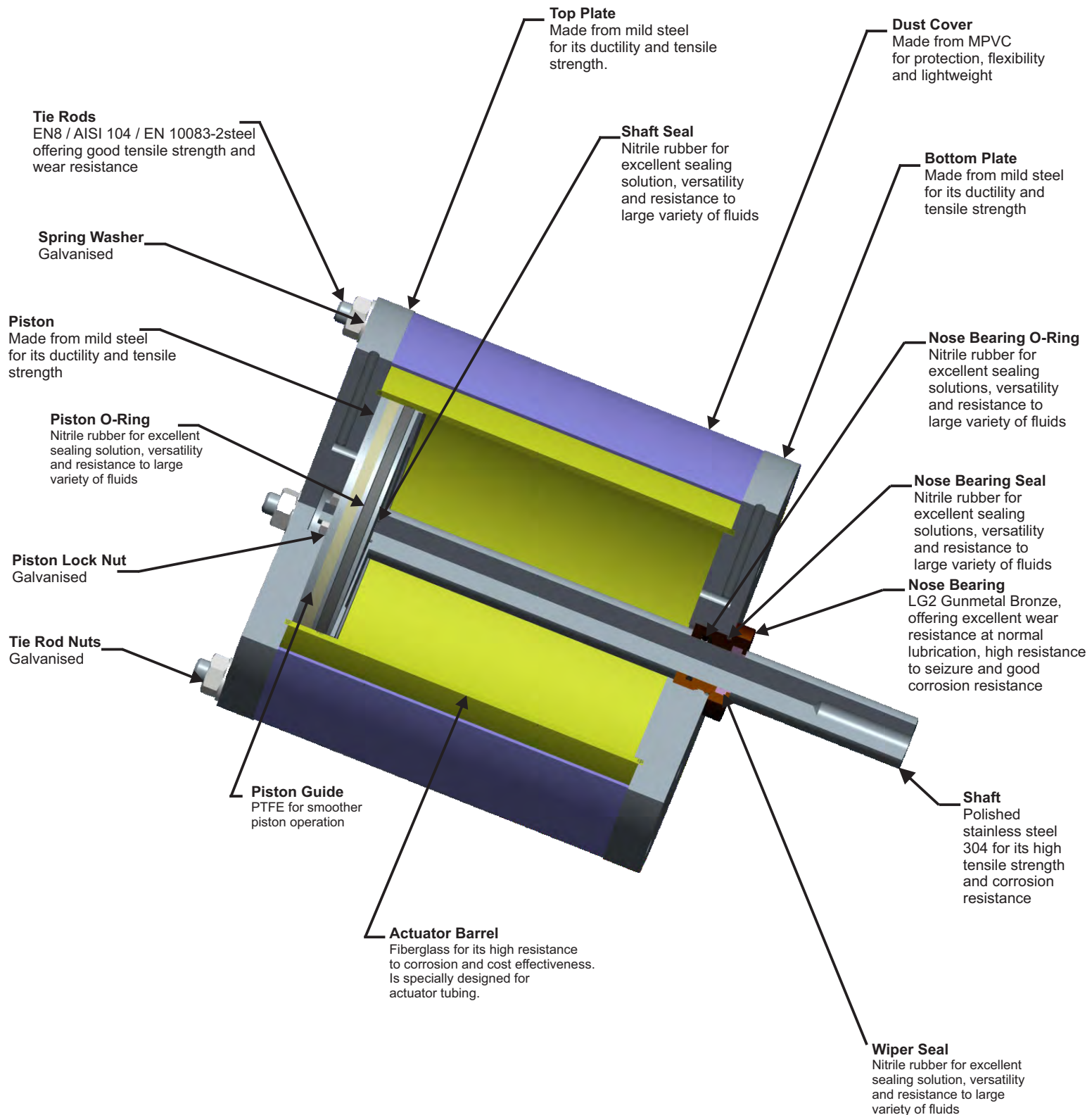
**World Class Performance
in Abrasive, Scaling and
Corrosive Slurries, Sludge,
Liquids, and Bulk Solids**



TOVI ACTUATORS
LINEAR ACTUATORS

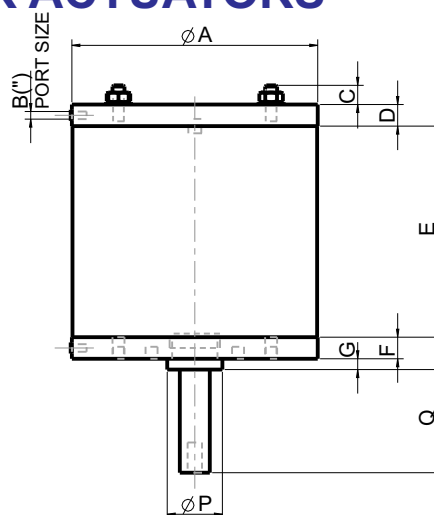
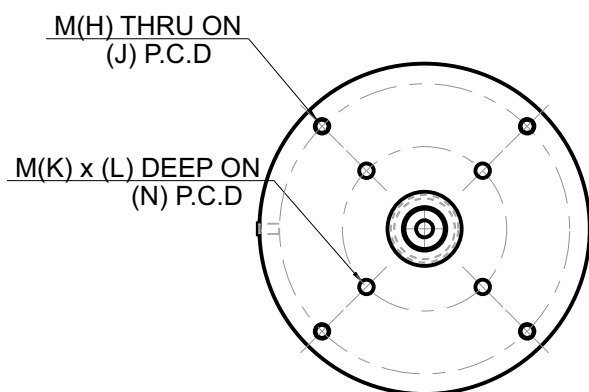


TOVI ACTUATOR FEATURES



World Class Performance

DIMENSIONS FOR ACTUATORS

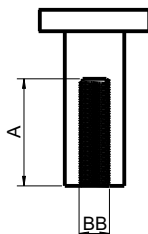


DIMENSIONS (MM)

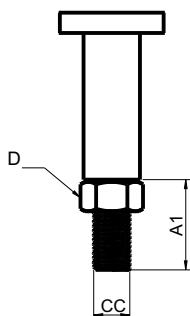
BARREL SIZE	TIE ROD DIAMETER	A	B(") BSP	C	D	E	F	G	H	J	K	L	N	P	Q RETRACTED/ EXTENDED
100	10	145	1/4	12	18	130	18	9	4 x 10	124	10	16	102	38	120/230
125	10	170	1/4	12	18	155	18	9	4 x 10	150	10	16	102	38	110/240
160	10	205	1/4	12	18	180	18	9	4 x 10	180	10	16	102	46	75/230
200	12	255	1/4	15	18	233	18	9	4 x 12	236	12	16	102	57	145/350
250	16	320	1/4	18	18	283	18	9	4 x 16	285	12	16	102	57	130/385
300	16	365	1/4	18	18	333	18	9	4 x 16	335	12	16	165	57	120/425
350	16	415	1/4	18	18	383	18	9	6 x 16	385	12	16	165	57	210/565
400	16	465	1/2	18	18	435	18	9	8 x 16	435	16	16	165	89	215/620
450	16	530	1/2	18	18	485	18	10	8 x 16	500	16	16	165	89	110/565
550	16	630	1/2	18	21	535	21	10	8 x 16	590	16	19	210	89	185/690
750	16	830	1/2	18	21	635	21	50	12x 16	795	16	19	210	120	55/660

ROD THREADS

TYPE A
Female threads
(standard)



TYPE B
Male threads
(optional)

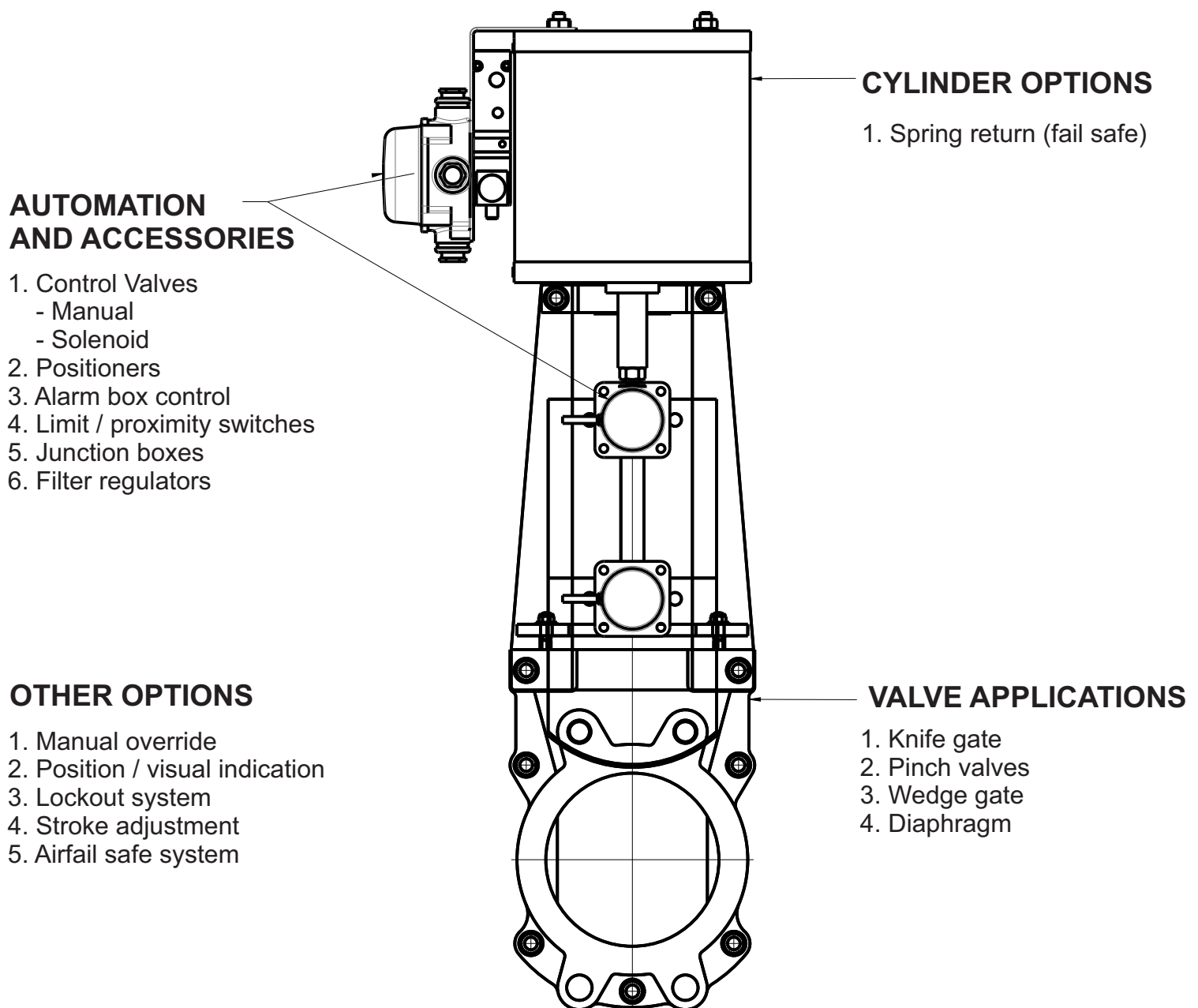


CYLINDER	ROD DIAMETER	BB	A	CYLINDER	ROD DIAMETER	CC	A1	D (NUT)
100	Ø 16	M10	40	100	Ø 16	M16 x 2	40	M16
125	Ø 20	M12	40	125	Ø 20	M16 x 2	40	M16
160	Ø 25	M12	40	160	Ø 25	M16 x 2	40	M16
200 TO 350	Ø 32	M20	50	200 TO 350	Ø 32	M20 x 2.5	50	M20
400 TO 450	Ø 40	M33 x 2	60	400 TO 450	Ø 40	M33 x 2	60	M33
550	Ø 50	M33 x 2	60	550	Ø 50	M33 x 2	60	M33
750	Ø 60	M33 x 2	60	750	Ø 60	M33 x 2	70	M33



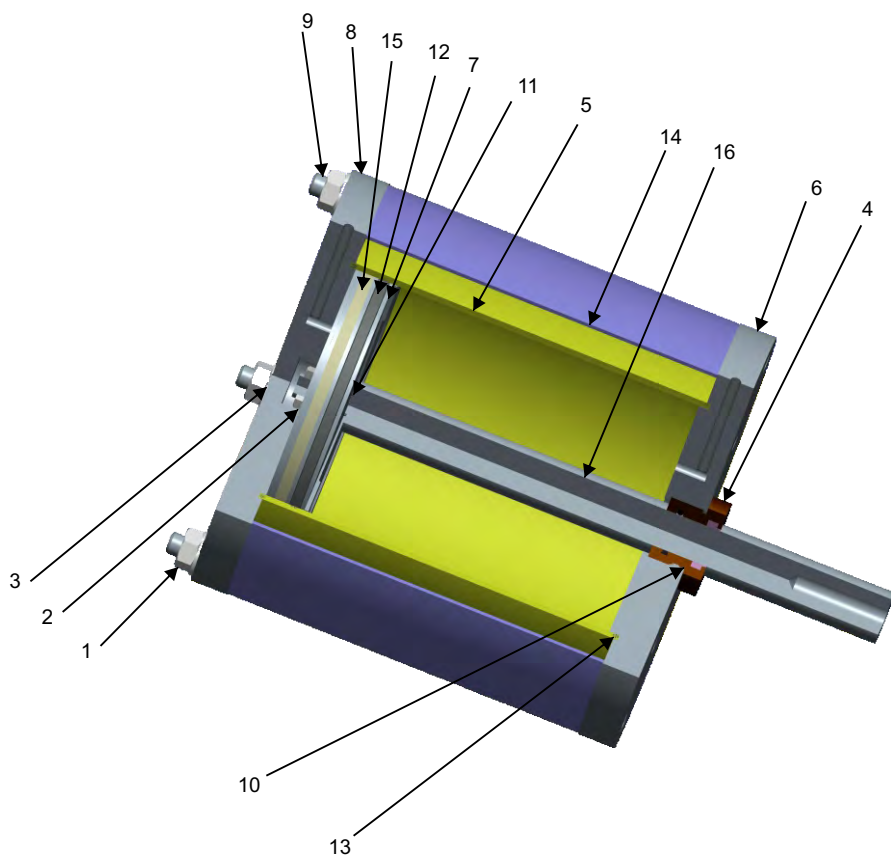
VALVE MOUNTINGS, OPTIONS AND ACCESSORIES

Special mountings for various valves can be fabricated and designed. In addition a complete range of accessories to answer any automation requirements can be added to the cylinder design.



World Class Performance

REPLACEMENT PARTS



ITEM	QUANTITY	UOM	DESCRIPTION
1	SIZES 100-300 (4) SIZES 350 (6) SIZES 400-550 (8) SIZES 750 (12)	EA	NUTS
2	1	EA	NYLOC NUT
3	SIZES 100-300 (4) SIZES 350 (6) SIZES 400-550 (8) SIZES 750 (12)	EA	SPRING WASHERS
4	1	EA	NOSE BEARING
5	1	EA	BARREL
6	1	EA	BOTTOM PLATE
7	1	EA	PISTON
8	1	EA	TOP PLATE
9	SIZES 100-300 (4) SIZES 350 (6) SIZES 400-550 (8) SIZES 750 (12)	EA	TIE RODS
10	1	EA	NOSEBUSH O-RING
11	1	EA	SHAFT SEAL
12	1	EA	PISTON O-RING
13	2	EA	END PLATE SEAL
14	1	EA	DUST COVER
15	1	EA	PISTON GUIDE RING
16	1	EA	PISTON SHAFT

THRUST FORCES FOR DOUBLE ACTING LINEAR ACTUATORS (kg)

CYLINDER THRUST IN KG's		
LINE PRESSURE BAR (+10% PUSH)		
MAXIMUM ALLOWABLE SUPPLY PRESSURE (7 BAR)		
SIZE	5 BAR	6 BAR
100	429	517
125	671	842
160	1100	1320
200	1705	2074
250	2695	3245
300	3850	4664
350	5280	6347
400	6875	8290
450	8745	10494
550	13035	15675
750	24200	29150

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