



Basic design DGC-G

- Piston $\Phi 8 \dots 63$ mm
- Stroke lengths from 1 ... 8500 mm
- Guide backlash = 0.2 mm
- For small loads
- Operating behaviour under torque load = average



Compact design DGC-K

- Piston $\Phi 18 \dots 80$ mm
- Stroke lengths from 1 ... 8500 mm
- 30% narrower than the DGC-G
- Low moving dead weight
- Symmetrical design



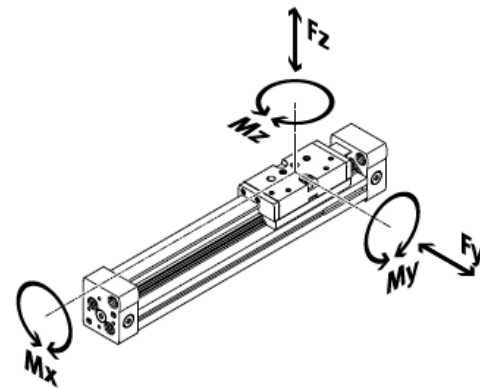
Plain-bearing guide DGC-GF

- Piston $\Phi 18 \dots 63$ mm
- Stroke lengths from 1 ... 8500 mm
- Guide backlash = 0.05 mm
- For small and medium loads
- Operating behaviour under torque load = average



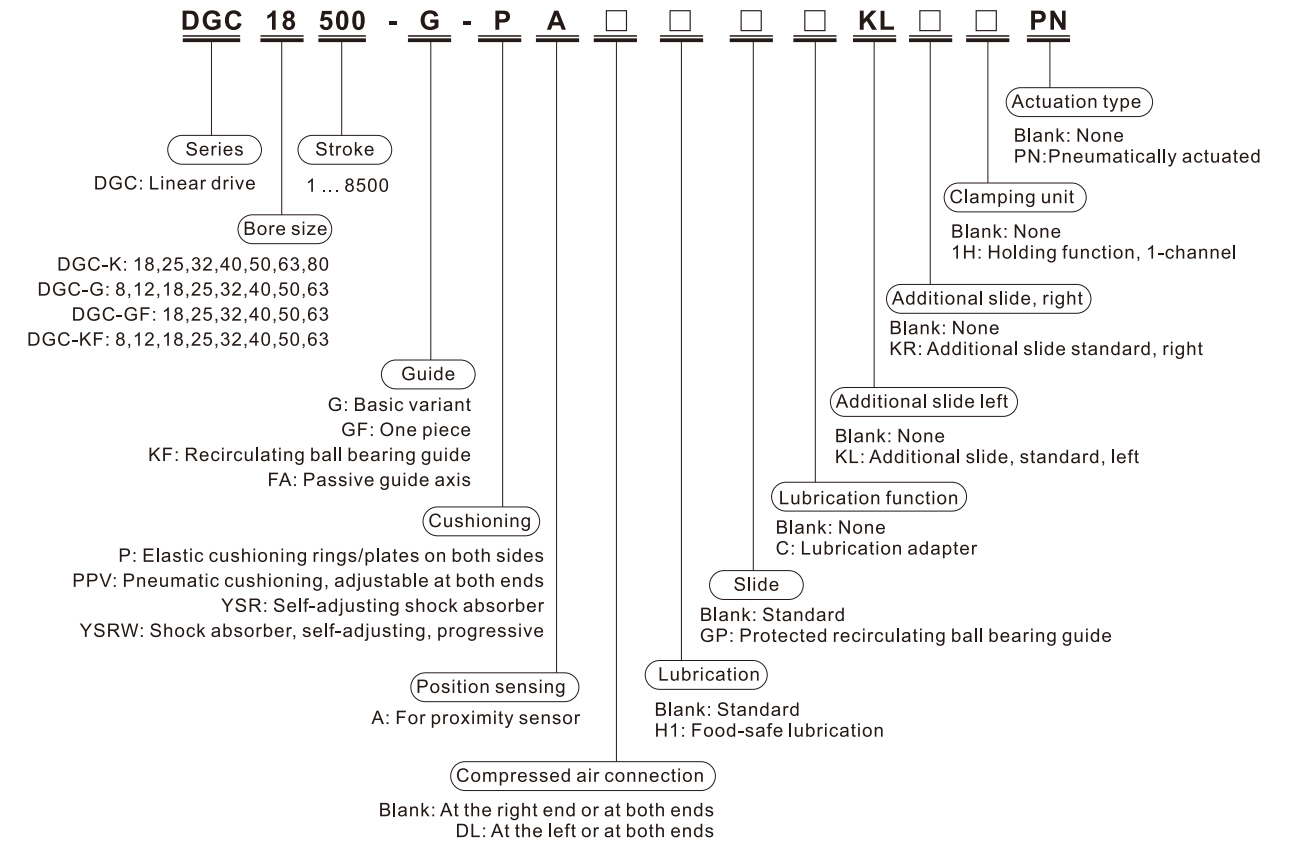
Recirculating ball bearing guide DGC-KF

- Piston $\Phi 8 \dots 63$ mm
- Stroke lengths from 1 ... 8500 mm
- Guide backlash = 0 mm
- For medium and large loads
- Precise mounting interface with centring holes and stainless steel slide
- Operating behaviour under torque load = very good



Product variants						
Bore size (mm)	Theoretical force at 0.6MPa	Guide characteristics				
		Fy [N]	Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
Compact design DGC-K						
18	153	-	120	0.8	11	1
25	295	-	330	1.2	20	3
32	483	-	480	1.9	40	5
40	754	-	800	3.8	60	8
50	1178	-	1200	6	120	15
63	1870	-	1600	5.7	150	24
80	3016	-	2500	30.6	400	100
Basic design DGC-G						
8	30	150	150	0.5	2	2
12	68	300	300	1.3	5	5
18	153	70	340	1.9	12	6
25	295	180	540	4	20	5
32	483	250	800	9	40	12
40	754	370	1100	12	60	25
50	1178	480	1600	20	150	37
63	1870	650	2000	26	150	48
Plain-bearing guide DGC-GF						
18	153	440	540	3.4	20	8.5
25	295	640	1300	8.5	40	20
32	483	900	1800	15	70	33
40	754	1380	2000	28	110	54
50	1178	1500	2870	54	270	103
63	1870	2300	4460	96	450	187
Recirculating ball bearing guide DGC-KF						
8	30	300	300	1.7	4.5	4.5
12	68	650	650	3.5	10	10
18	153	1850	1850	16	51	51
25	295	3050	3050	36	97	97
32	483	3310	3310	54	150	150
40	754	6890	6890	144	380	380
50	1178	6890	6890	144	634	634
63	1870	15200	15200	529	1157	1157

Ordering Code

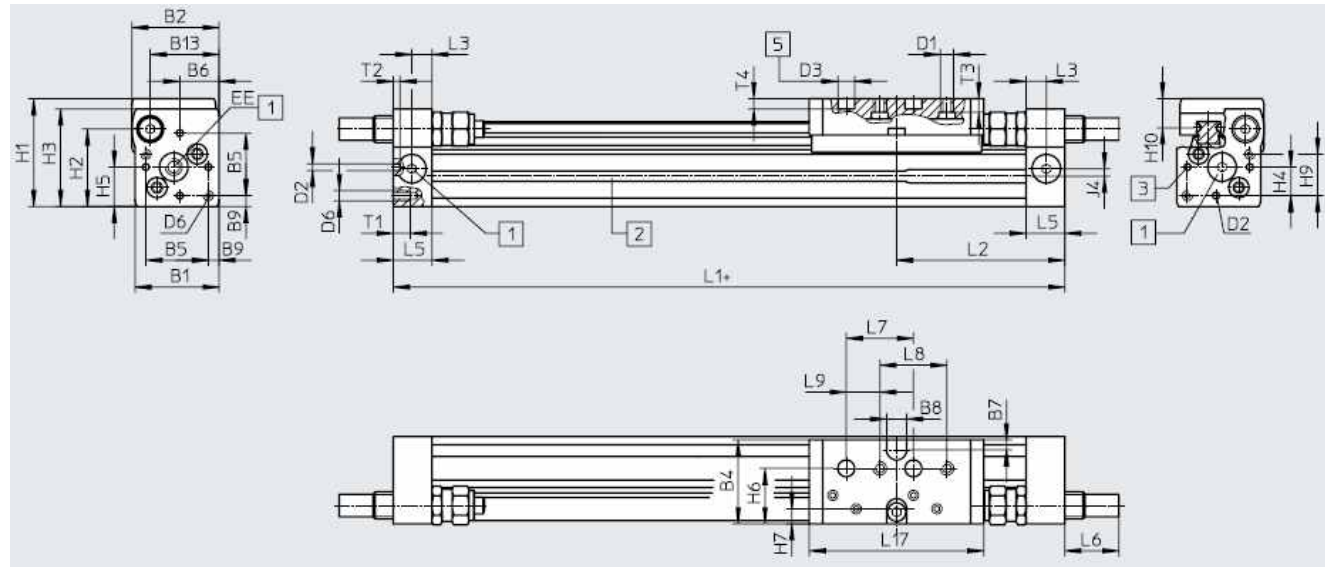


Linear drives DGC-G: General technical data

Bore size (mm)	8	12	18	25	32	40	50	63
Design	Rodless actuator							
Driver principle	Slotted cylinder, mechanically coupled							
Guide	Basic design							
Operating mode	Double-acting							
Stroke (mm)	1 ... 1500	1 ... 2000	1 ... 3000	1 ... 8500			1 ... 5000	
Pneumatic connection	M5 x 0.8			1/8"		1/4"		3/8"
Cushioning	DGC-...-P		Non-adjustable at both ends		-			
	DGC-...-PPV		-		Adjustable at both ends			
	DGC-...-YSR...		Self-adjusting at both ends		-			
Cushioning length with cushioning PPV	-		16.5	15.5	17.5	29.5	29.8	31.1
Max. speed [m/s]	1	1.2		3				
Position sensing	Via proximity switch							
Type of mounting	Profile mounting, Foot mounting, Direct mounting							
Mounting position	Any							
Operating pressure [MPa]	0.25 ~ 0.8			0.2 ~ 0.8			0.15 ~ 0.8	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]							
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)							
Ambient temperature 1) [°C]	+5 ~ +60			-10 ~ +60				
Corrosion resistance class	2 - Moderate corrosion stress							
Theoretical force at 0.6 MPa (6 bar, 87 psi)	30	68	153	295	483	754	1178	1870

Dimensions_DGC-G Series

Φ 8 and 12



+ = Plus stroke length

- [1] Compressed air supply port options on 3 sides
- [2] Sensor slot for proximity switch
- [3] Mounting hole for foot mounting or centring pin
- [5] Drilled hole for centring pin ZBS

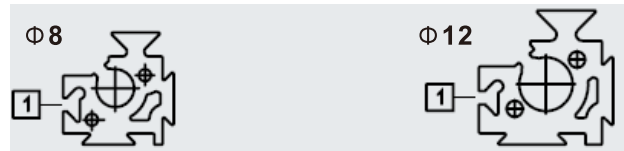
Bore size	B1	B2	B4	B5	B6	B7	B8 ±0.05	B9 ±0.1	B13	D1	D2 (H8)	D3 (H7)	D6	EE	H1	H2	H3	H4	H6	H7
8	25	26	25.5	18.6	11.7	3	6	3.2	20.5	M4	2	5	M3	M5	32	23	29	8.5	16.5	4.5
12	30.2	31	30.5	20.6	13.5	3	8	4.8	25	M4	2	5	M4	M5	37.5	28.5	34.5	8.7	20.5	5

Bore size	H9	H10	J4	L1	L2	L3	L5	L6			L7 ±0.03	L8 ±0.1	L9 ±0.1	L17	T1	T2	T3	T4 ±0.1	Stroke tolerance
								P	YSR	YSRW									
8	12.3	8.7	2.2	100	50.1	6	11.4	0	16	16.2	20	20	10	52	5	2	4	3	0~1.7
12	14.7	9.8	3	125	62.4	8	15.9	0	11.3	12.3	20	20	10	65	6	2	5	3	

Length tolerance For stroke [mm]	
Stroke	≤1000
L1	+0.90

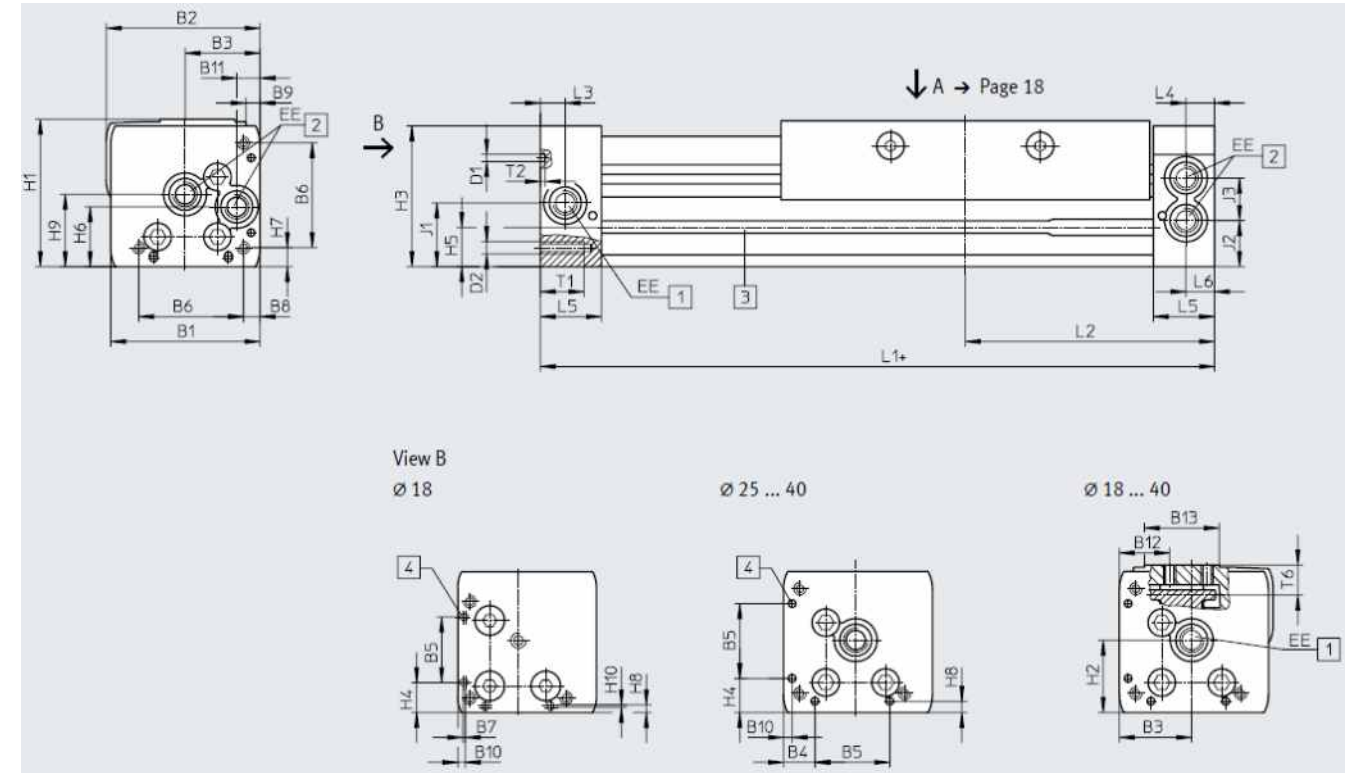
Note: This product conforms to ISO 1179-1 and ISO 228-1.

Profile barrel

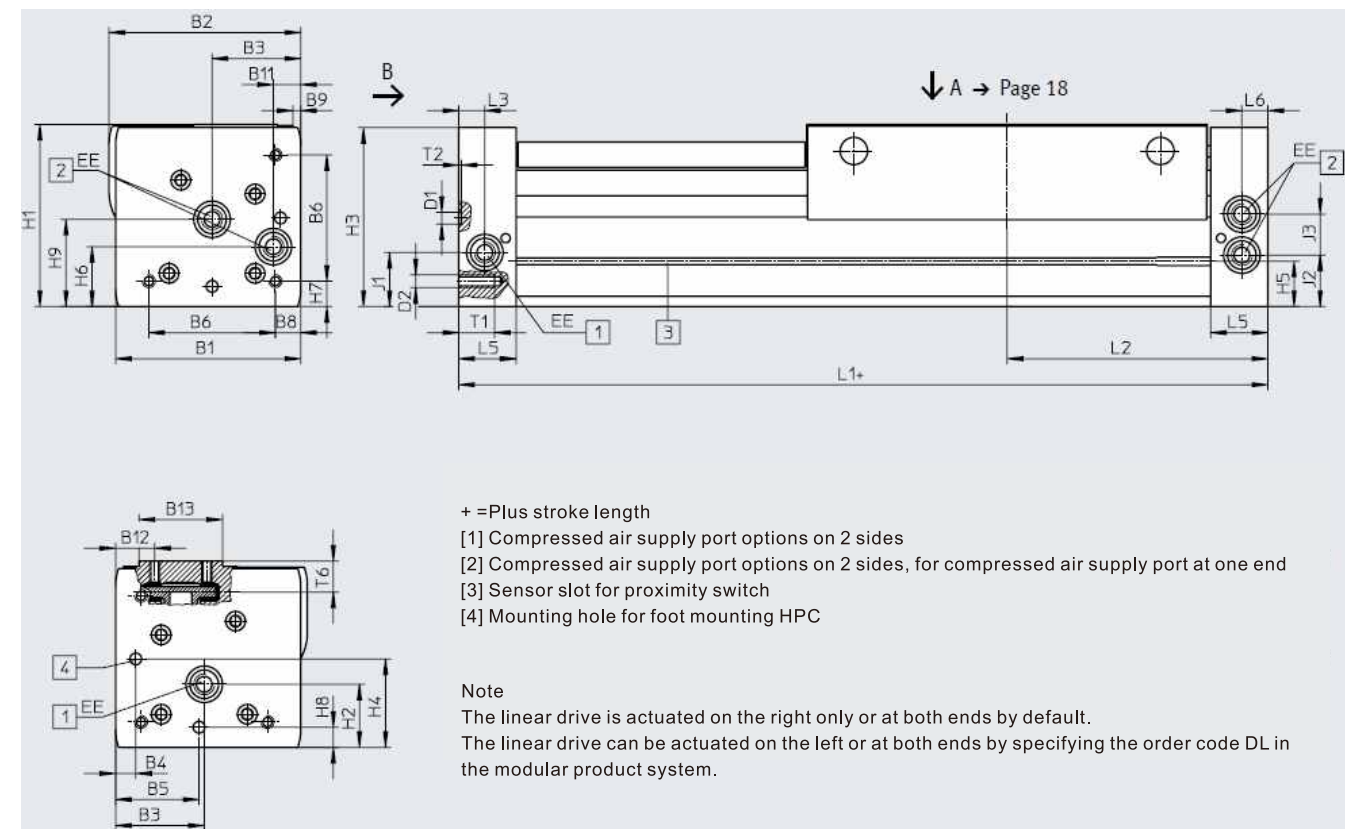


[1] Sensor slot for proximity switch

Φ 18 to 40



Φ 50/63



+ = Plus stroke length

- [1] Compressed air supply port options on 2 sides
- [2] Compressed air supply port options on 2 sides, for compressed air supply port at one end
- [3] Sensor slot for proximity switch
- [4] Mounting hole for foot mounting HPC

Note

The linear drive is actuated on the right only or at both ends by default.
The linear drive can be actuated on the left or at both ends by specifying the order code DL in the modular product system.

Basic Type

Bore size	B1	B2	B3	B4	B5 ±0.05	B6	B7	B8	B9	B10	B11	B12	B13	D1	D2	EE	H1	H2	H3	H4 ±0.2
18	44.5	46.3	19.5	8.8	21	31	0.3	3.2	3.3	2.4	5.5	19.3	20	2	M4	M5	49.8	23.1	48.3	10.3
25	59.8	61.6	30	12.65	30	42		6.65	5.6	3.5	9.3	20.15	30	3	M5	G1/8	58.5	29	56.5	13
32	73	75.5	38.5	5.7	63.1	57.5		8.5	5	14	14.9	20.5	34	3	M6	G1/8	73	30	71.5	5.7
40	91	94.5	45	17.2	55	65		12.2	5.3	8	16.5	19.8	45	4	M6	G1/4	88	41.5	85	17.2
50	113	122	60	8	52.8	81.6	-	12	0	-	21	24	64	9	M8	G1/4	120	38.5	116	52.8
63	142	147	68	15.5	68	97	-	19.5	6	-	21	30	64	9	M10	G3/8	140	48.5	137.5	68

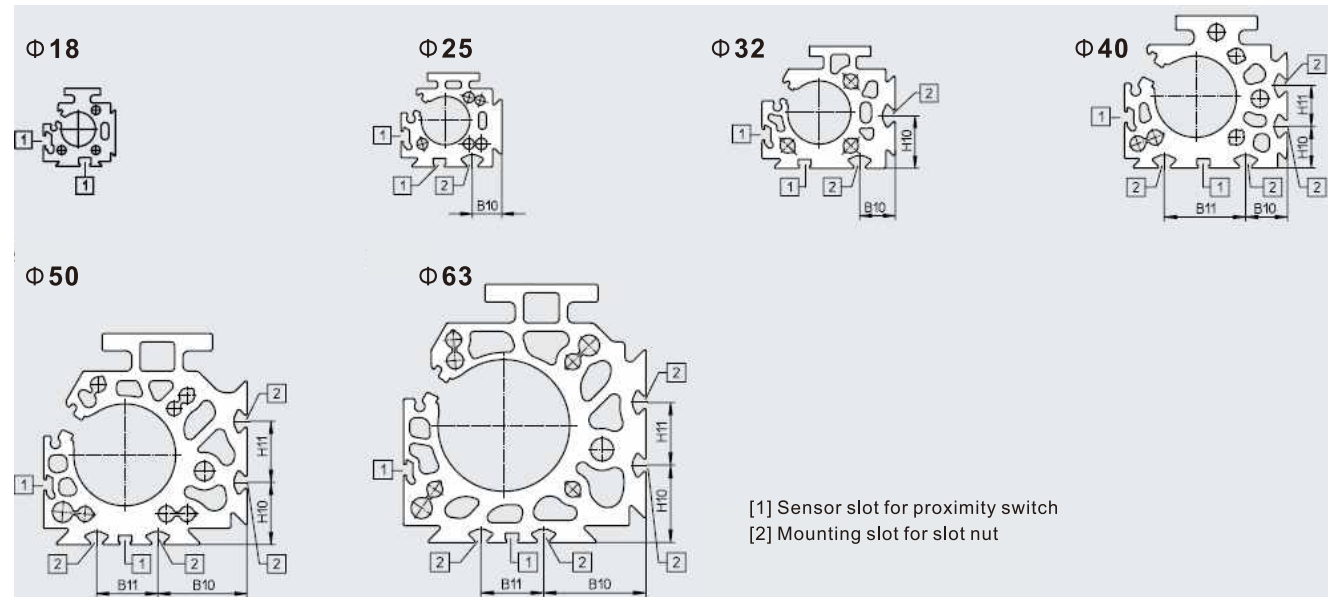
Bore size	H5	H6	H7	H8	H9	H10	J1	J2	J3	L1	L2	L3	L4	L5	L6	T1	T2	T6	Stroke tolerance
18	13.4	20	5.3	2.4	25.2	0.4	20	16.5	11	150	74.5	5.7	5.8	15	5.5	9	2	10.7	0~2.5
25	15.8	24	7	3.5	29		26.1	18.6	17	200	100	10.5	10.6	24.5	10.6	17.5	2	12	
32	17	27.7	8.5	14	35.2		30	22	18.5	250	124.8	14.5	14.5	30.5	14.5	15	2	13.8	
40	25	36.5	12.2	8	44		35	26	26	300	150	14.6	14.6	33.5	14.6	20	3	16.8	
50	29.3	36	12	8	53	-	30.5	30.5	28	350	175	17	-	41	17	24	2.1 ^{+0.2}	38.5	
63	34.8	46	19.5	15.5	67	-	41.5	39.5	31.5	400	200	20	-	44	20	27.5	2.1 ^{+0.2}	20.75	

Length tolerance For stroke [mm]

Stroke	≤1000	≤2000	≤3000	≤4000	≤5000	≤6000	≤7000	≤8000	≤9000
L1	+0.90	+1.10	+1.40	+1.50	+1.60	+1.70	+2.20	+2.30	+2.40

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Profile barrel



[1] Sensor slot for proximity switch
[2] Mounting slot for slot nut

Bore size	B10	B11	H10	H11
25	15.23	-	-	-
32	18	-	26.5	-
40	20.5	40	20.5	20
50	43.8	30	30.5	30
63	49	30	37	30

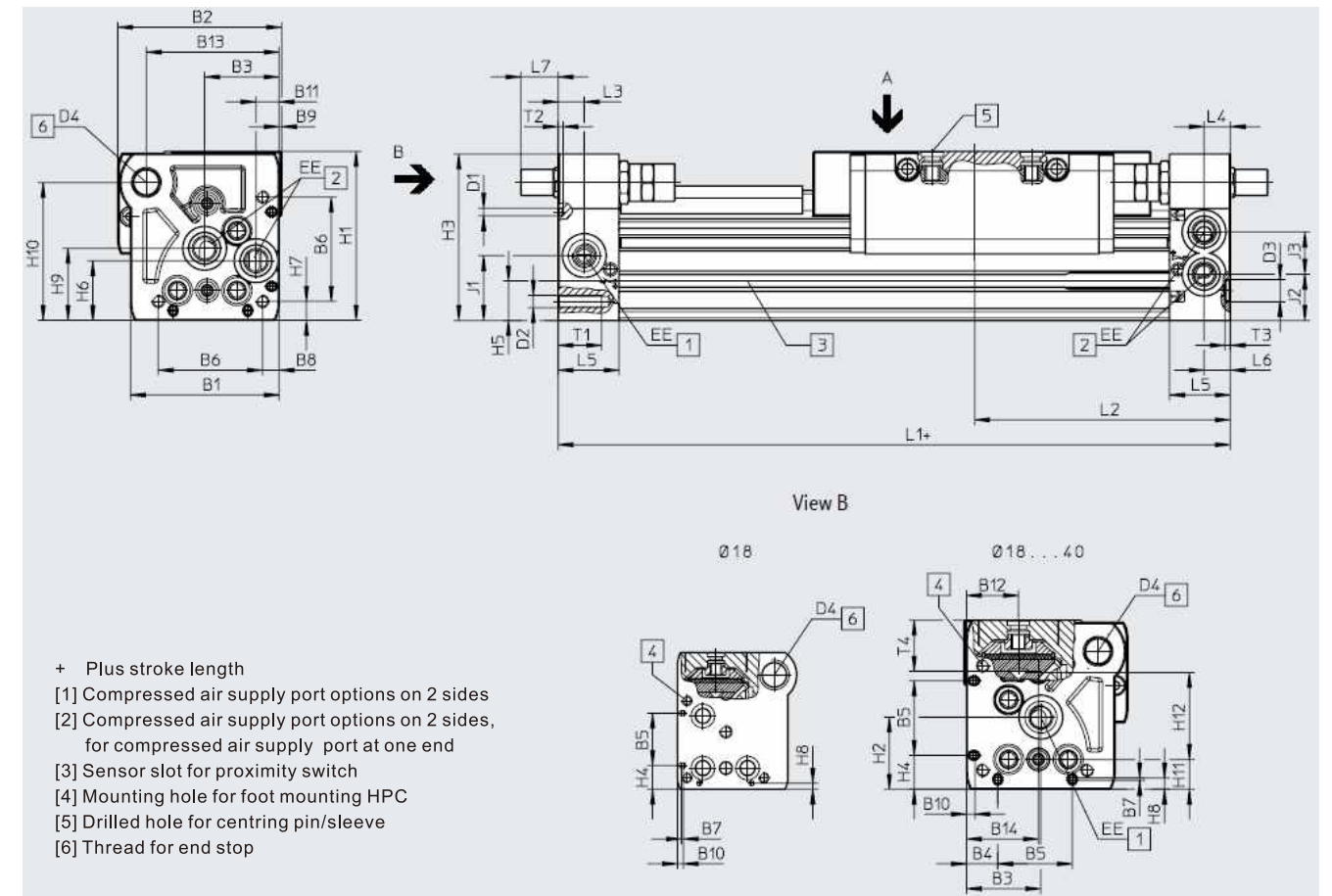
With Plain-Bearing Guide

Linear drives DGC-GF, with plain-bearing guide: General technical data

Bore size(mm)	18	25	32	40	50	63
Design	Rodless actuator					
Driver principle	Slotted cylinder, mechanically coupled					
Guide	Plain-bearing guide					
Operating mode	Double-acting					
Stroke (mm)	1 ... 3000	1 ... 8500		1 ... 5000		
Pneumatic connection	M5 x 0.8	1/8"		1/4"		3/8"
Cushioning	Adjustable at both ends					
	Self-adjusting at both ends					
Cushioning length with cushioning PPV	16.5	15.5	17.5	29.5	29.8	31.1
Max. speed [m/s]	3					
Position sensing	Via proximity switch					
Type of mounting	Profile mounting, Foot mounting, Direct mounting					
Mounting position	Any					
Operating pressure [MPa]	0.2 ~ 0.8			0.15 ~ 0.8		
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]					
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Ambient temperature1) [°C]	-10 ~ +60					
Corrosion resistance class	2 - Moderate corrosion stress					
Theoretical force at 0.6 MPa (6 bar, 87 psi)	153	295	483	754	1178	1870

Dimensions_DGC-GF Series

Φ18 to 40



- + Plus stroke length
- [1] Compressed air supply port options on 2 sides
- [2] Compressed air supply port options on 2 sides, for compressed air supply port at one end
- [3] Sensor slot for proximity switch
- [4] Mounting hole for foot mounting HPC
- [5] Drilled hole for centring pin/sleeve
- [6] Thread for end stop

Note

The linear drive is actuated on the right only or at both ends as standard.

The linear drive can be actuated on the left or at both ends by specifying the order code DL in the modular product system.

Bore size	B1	B2	B3	B4	B5 ±0.05	B6	B7	B8	B9	B10	B11	B12	B13	B14	D1 ±0.05	D2	D3 H7	D4	EE	H1
18	44.5	49.9	19.5	8.8	21	31	0.8	3.8	1	2.4	5.5	15.5	39	19.5	2	M4	5	M12X1	M5	56.3
25	59.8	66	30	12.65	30	42	1	6.65	1	3.5	9.3	21	53.5	30	3	M5	9	M12X1	G1/8	68
32	73	79	38.5	5.7	63.1	57.5	-	8.5	1.5	14	14.9	18	66.5	38.5	3	M6	9	M14X1	G1/8	78.5
40	91	98.5	45	17.2	55	65	-	12.2	2	8	16.5	24.8	80.5	45	4	M6	9	M16X1	G1/4	99.5

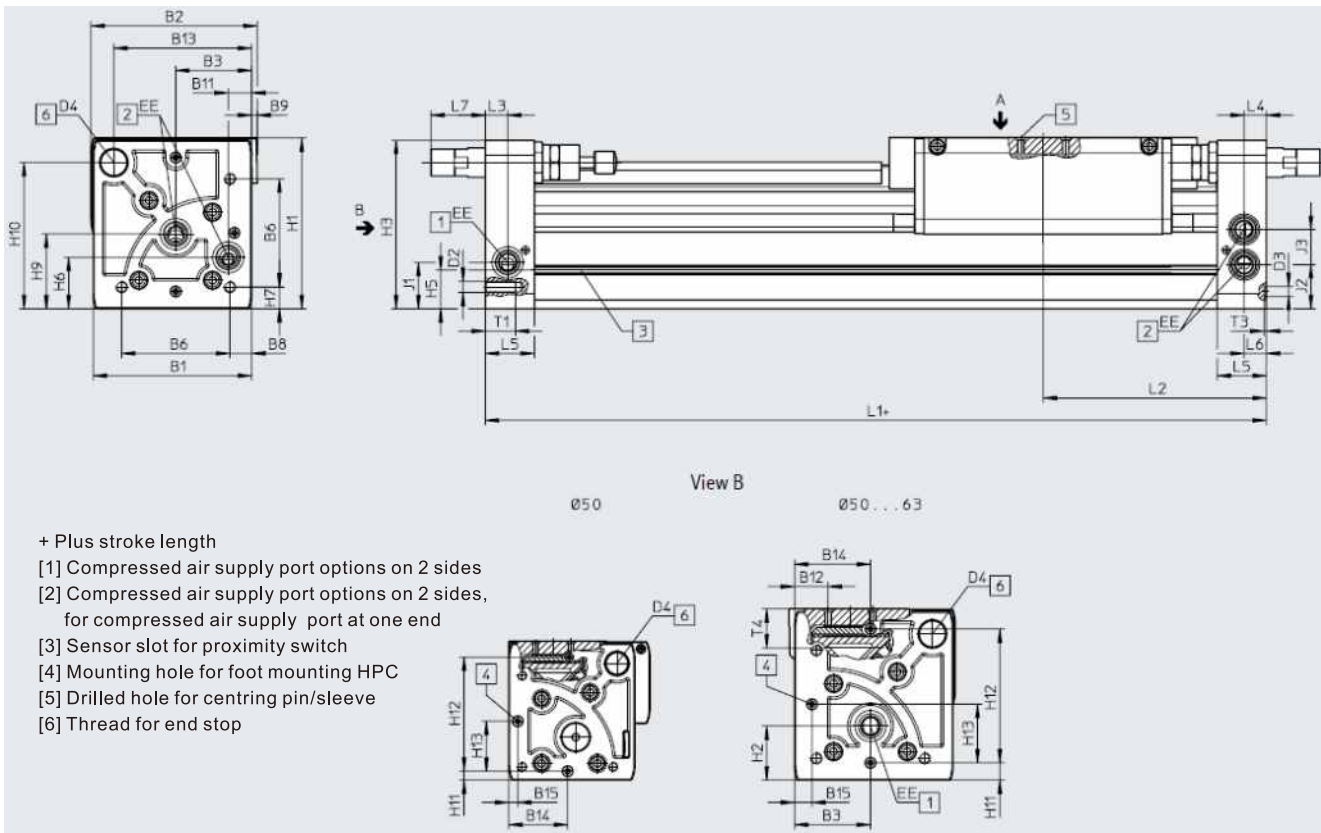
Bore size	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11 ±0.15	H12 ±0.05	J1	J2	J3	L1	L2	L3	L4	L5	L6
18	23.1	55	9.6	13.4	20	4.6	2.4	25.2	46	8.5	30	20	16.5	15	150	74.5	5.7	5.8	15	5.5
25	29	67	13.65	15.8	24	7.65	3.5	29	55.5	12	35	26.1	18.6	17	200	100	10.5	10.6	24.5	10.6
32	30	77	5.7	17	27.7	8.5	14	35.2	63.8	11.45	50	30	22	18.5	250	124.8	14.5	14.5	30.5	14.5
40	41.5	97.5	17.2	25	36.5	12.2	8	44	81.5	15	60	35	26	26	300	150	14.6	14.6	33.5	14.6

Bore size	L7			T1	T2	T3	T4	Stroke tolerance
	PPV	YSR	YSRW					
18	0	15.9	19.4	9	2	3.1	17.1	0~2.5
25	0	12.5	15	17.5	2	2.1	20.5	
32	0	8.5	15.5	15	2	2.1	21.3	
40	0	12.8	21	20	3	2.1	30.7	

Length tolerance For stroke [mm]									
Stroke	≤1000	≤2000	≤3000	≤4000	≤5000	≤6000	≤7000	≤8000	≤9000
L1	+0.90	+1.10	+1.40	+1.50	+1.60	+1.70	+2.20	+2.30	+2.40

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Φ50/63



+ Plus stroke length

- [1] Compressed air supply port options on 2 sides
- [2] Compressed air supply port options on 2 sides, for compressed air supply port at one end
- [3] Sensor slot for proximity switch
- [4] Mounting hole for foot mounting HPC
- [5] Drilled hole for centring pin/sleeve
- [6] Thread for end stop

Note
The linear drive is actuated on the right only or at both ends as standard.
The linear drive can be actuated on the left or at both ends by specifying the order code DL in the modular product system.

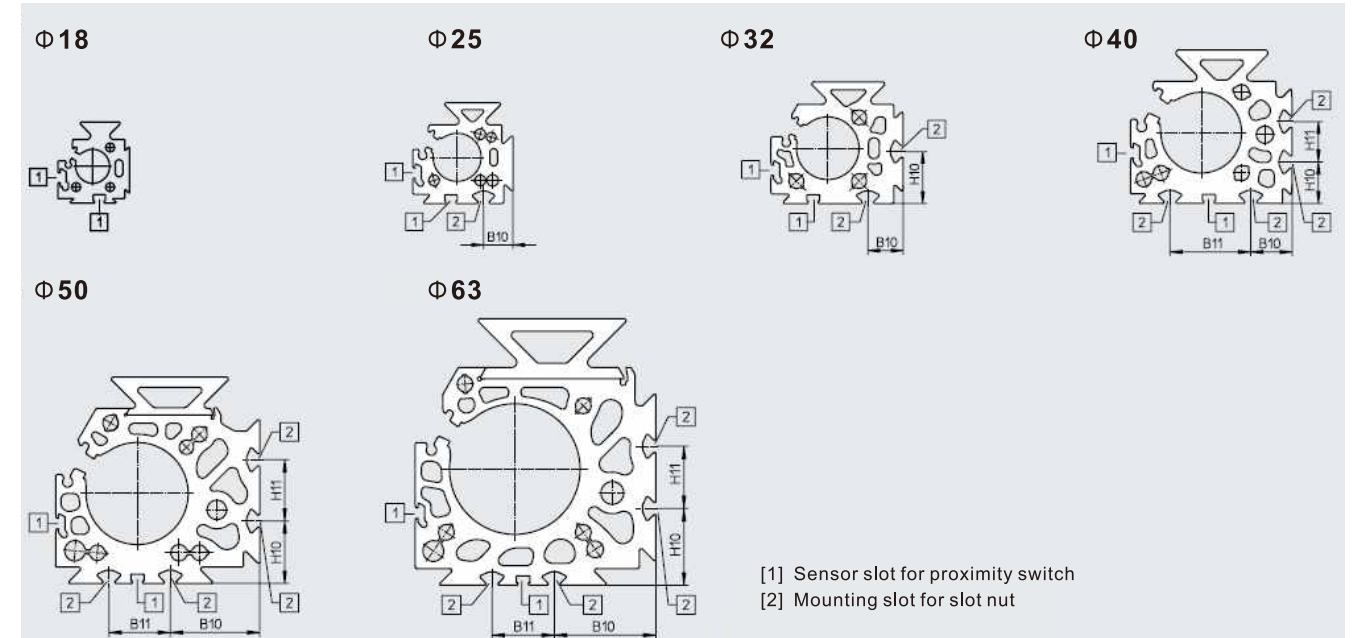
Bore size	B1	B2	B3	B6	B8	B9	B11	B12	B13	B14 ±0.05	B15	D2	D3 H7	D4	EE	H1	H2	H3	H5	H6	H7	H9
50	113	126.5	60	81.6	12	-	21	24	97	52.8	8	M8	9	M22X1.5	G1/4	124.5	38.5	122.5	29.3	36	12	53
63	142	149	68	97	19.5	5	21	30	123.5	68	15.5	M10	9	M26X1.5	G3/8	153.5	48.5	151	34.8	46	19.5	67

Bore size	H10	H11 ±0.2	H12 ±0.05	H13	J1	J2	J3	L1	L2	L3	L4	L5	L6	L7			T1	T3	T4	Stroke tolerance
														PPV	YSR	YSRW				
50	104.5	8	100	52.8	30.5	30.5	28	350	175	17	17	41	17	0	31	36.3	24	2.1	30.4	0~2.5
63	131	15.5	120	68	41.5	39.5	31.5	400	200	20	20	44	20	0	38.3	48.3	27.5	2.1	36.2	

Length tolerance For stroke [mm]					
Stroke	≤1000	≤2000	≤3000	≤4000	≤5000
L1	+0.90	+1.10	+1.40	+1.50	+1.60

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Profile barrel

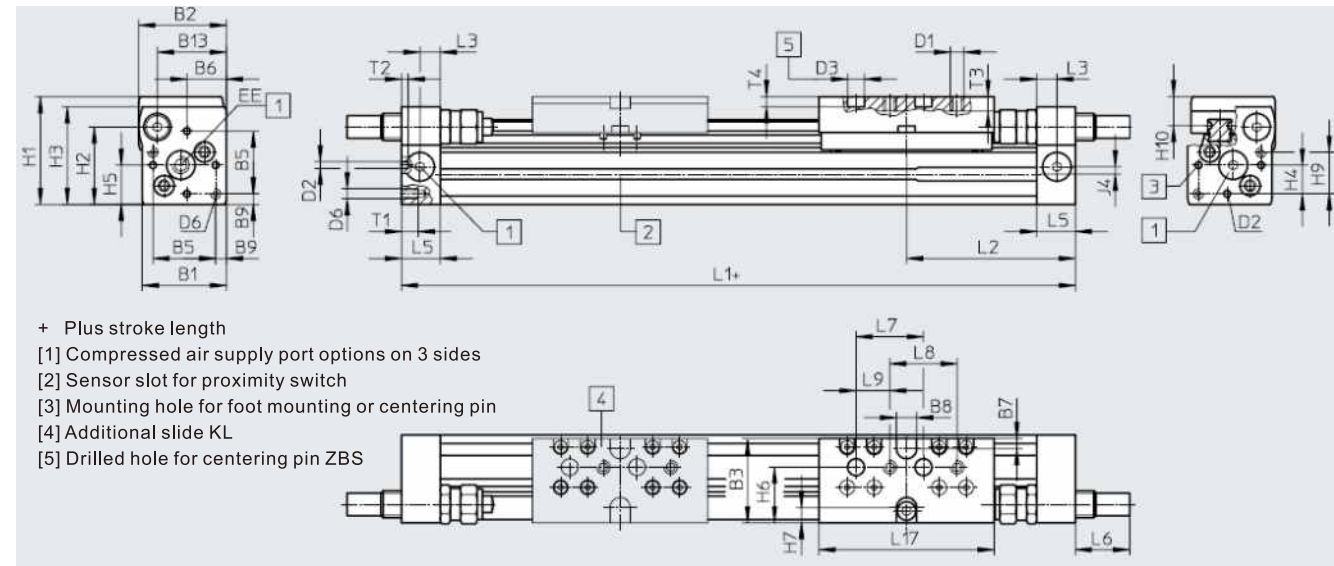


Bore size	B10	B11	H10	H11
25	15.23	-	-	-
32	18	-	26.5	-
40	20.5	40	20.5	20
50	43.8	30	30.5	30
63	49	30	37	30

Linear drives DGC-KF, with recirculating ball bearing guide: General technical data								
Bore size(mm)	8	12	18	25	32	40	50	63
Design	Rodless actuator							
Driver principle	Slotted cylinder, mechanically coupled							
Guide	External recirculating ball bearing guide							
Operating mode	Double-acting							
Stroke (mm)	1 ... 1300	1 ... 1900	1 ... 3000	1 ... 8500		1 ... 5000		
Pneumatic connection	M5 x 0.8		1/8"		1/4"		3/8"	
Cushioning	DGC-...-P	Non-adjustable at both ends		-				
	DGC-...-PPV	-		Adjustable at both ends				
	DGC-...-YSR...	Self-adjusting at both ends		-				
Cushioning length with cushioning PPV	-		16.5	15.5	17.5	29.5	29.8	31.1
Max. speed [m/s]	1	1.2	3					
Repetition accuracy [mm]	0.02 (with shock absorber YSR/YSRW)							
Position sensing	Via proximity switch							
Type of mounting	Profile mounting, Foot mounting, Direct mounting							
Mounting position	Any							
Operating pressure [MPa]	0.25 ~ 0.8		0.2 ~ 0.8			0.15 ~ 0.8		
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]							
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)							
Ambient temperature1) [°C]	-10 ~ +60							
Corrosion resistance class CRC	1 - Low corrosion stress							
Theoretical force at 0.6 MPa (6 bar, 87 psi)	30	68	153	295	483	754	1178	1870

Dimensions_DGC-KF, Series

Φ8 and 12



Bore size	B1	B2	B3	B5	B6	B7	B8 ±0.05	B9 ±0.1	B13	D1	D2 H8	D3 H7	D6	EE	H1	H2	H3	H4	H5	H6	H7	H9
8	25	26	25	18.6	11.7	3	6	3.2	20.5	M4	2	5	M3	M5	32	23	29	8.5	11.7	16.5	4.5	12.3
12	30.2	31	31	20.6	13.5	3	8	4.8	25	M4	2	5	M4	M5	37.5	28.5	34.5	8.7	13.5	20.5	5	14.7

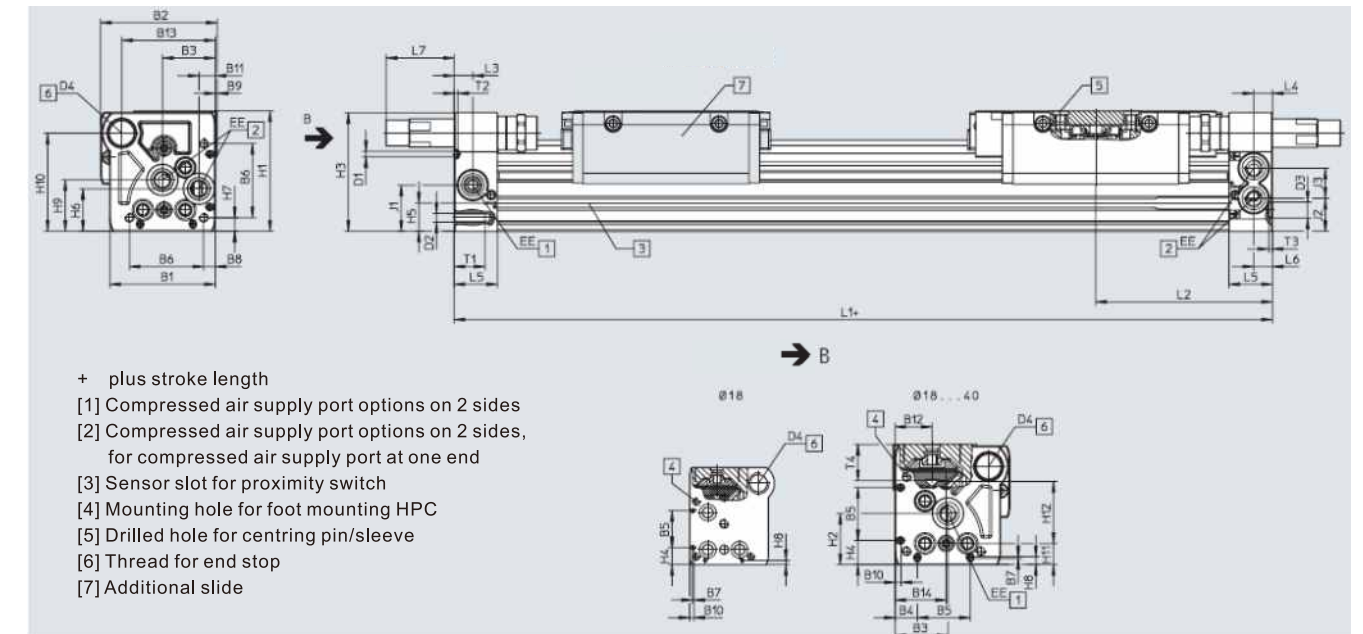
Bore size	H10	J4	L1	L2	L3	L5	L6			L7 ±0.03	L8 ±0.1	L9 ±0.1	L17	T1	T2	T3	T4 ±0.2	Stroke tolerance
							P	YSR	YSRW									
8	8.7	2.2	100	50.1	6	11.4	0	16	16.2	20	20	10	52	5	2	4.3	3	0~1.7
12	9.8	3	125	62.4	8	15.9	0	11.3	12.3	20	20	10	65	6	2	5	3	

Length tolerance For stroke [mm]		
Stroke	≤1000	≤2000
L1	+0.90	+1.10



[1] Sensor slot for proximity switch

Φ18 to 40



- + plus stroke length
- [1] Compressed air supply port options on 2 sides
- [2] Compressed air supply port options on 2 sides, for compressed air supply port at one end
- [3] Sensor slot for proximity switch
- [4] Mounting hole for foot mounting HPC
- [5] Drilled hole for centering pin/sleeve
- [6] Thread for end stop
- [7] Additional slide

Note
The linear drive is actuated on the right only or at both ends as standard.
The linear drive can be actuated on the left or at both ends by specifying the order code DL in the modular product system.

Bore size	B1	B2	B3 ±0.05	B4 ±0.1	B5 ±0.05	B6	B7	B8 ±0.1	B9	B10	B11	B12	B13	B14	D1 ±0.05	D2	D3 H7	D4	EE	H1
18	44.5	49.9	19.5	8.8	21	31	0.8	3.8	1	2.4	5.5	15.5	39	19.5	2	M4	5	M12X1	M5	56.3
25	59.8	66	29	12.65	30	42	1	6.65	1	3.5	9.3	21	53	29	3	M5	9	M16X1	G1/8	68
32	73	79	38.5	5.7	63.1	57.5	-	8.5	1.5	14	14.9	18	65	38.5	3	M6	9	M16X1	G1/8	78.5
40	91	98.5	45	17.2	55	65	-	12.2	2	8	16.5	24.8	80.5	45	4	M6	9	M22X1.5	G1/4	99.5

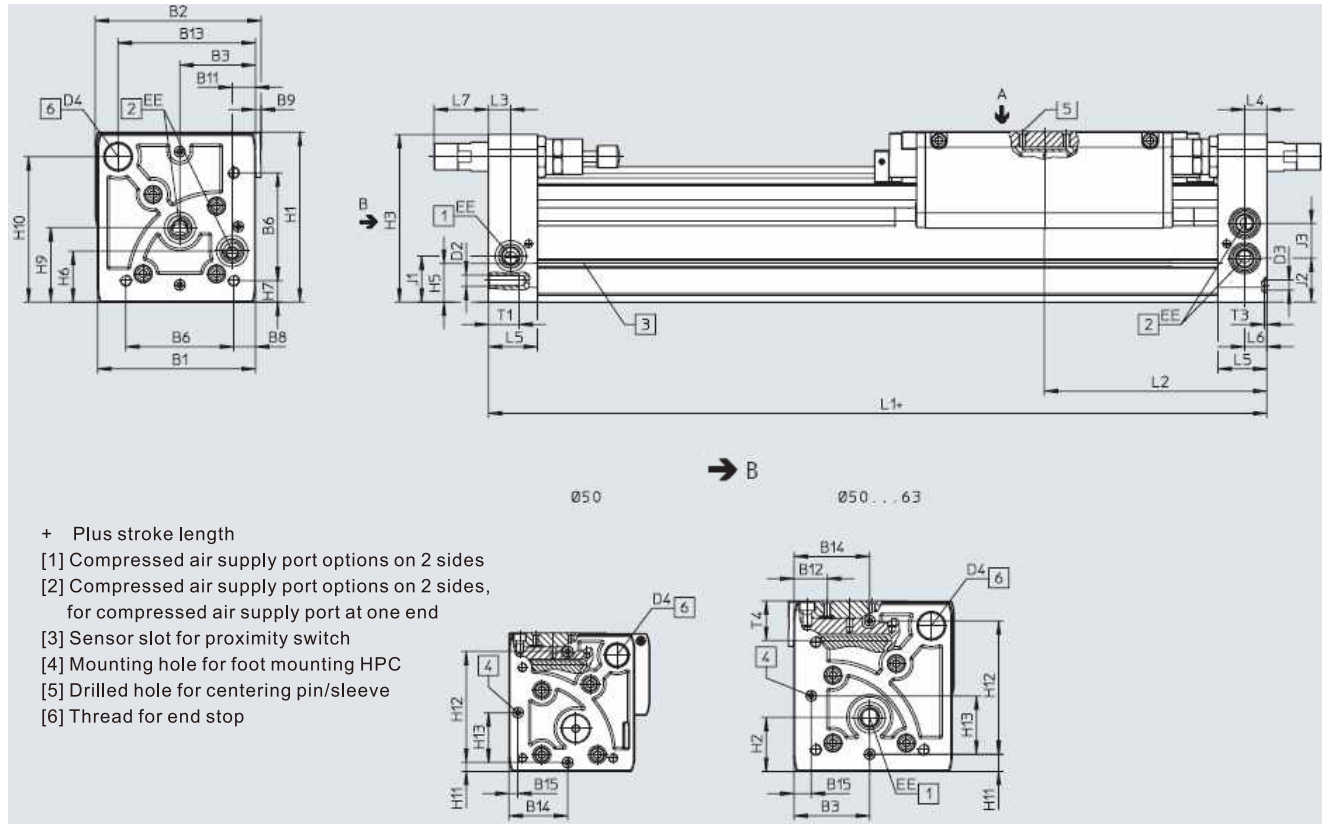
Bore size	H2	H3	H4 ±0.2	H5	H6	H7	H8	H9	H10	H11 ±0.15	H12 ±0.05	J1	J2	J3	L1			L2		
															KF	KF-GP	1H-PN	KF	KF-GP	1H-PN
18	23.1	55	9.6	13.4	20	4.6	2.4	25.2	46	8.5	30	20	16.5	11	150	157	-	74.5	78	-
25	29	67	13.65	15.8	24	7.65	3.5	29	55.5	12	35	26.1	18.6	17	200	205	271	100	102.5	100
32	30	77	5.7	17	27.7	8.5	14	35.2	63.8	11.45	50	30	22	18.5	250	250	320.5	124.8	124.8	124.8
40	41.5	97.5	17.2	25	36.5	12.2	8	44	81.5	15	60	35	26	26	300	312	458	150	156	150

Bore size	L3	L4	L5	L6	L7			T1	T2	T3 +0.2	T4	Stroke tolerance
					PPV	YSR	YSRW					
18	5.7	5.8	15	5.5	0	29.9	32.4	9	2	3.1	17.1	0~2.5
25	10.5	10.6	24.5	10.5	0	35.6	38.6	17.5	2	2.1	20.5	
32	14.5	14.5	30.5	14.5	0	19.5	28	15	2	2.1	21.3	
40	14.6	14.6	33.5	14.6	0	38.5	43.5	20	3	2.1	30.7	

Length tolerance For stroke [mm]									
Stroke	≤1000	≤2000	≤3000	≤4000	≤5000	≤6000	≤7000	≤8000	≤9000
L1	+0.90	+1.10	+1.40	+1.50	+1.60	+1.70	+2.20	+2.30	+2.40

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Φ50 and 63



+ Plus stroke length

- [1] Compressed air supply port options on 2 sides
- [2] Compressed air supply port options on 2 sides, for compressed air supply port at one end
- [3] Sensor slot for proximity switch
- [4] Mounting hole for foot mounting HPC
- [5] Drilled hole for centering pin/sleeve
- [6] Thread for end stop

Note

The linear drive is actuated on the right only or at both ends as standard.

The linear drive can be actuated on the left or at both ends by specifying the order code DL in the modular product system.

Bore size	B1	B2	B3 ±0.05	B6	B8 ±0.1	B9	B11	B12	B13	B14	B15	D2	D3 H7	D4	EE	H1	H2	H3	H5	H6	H7	H9
50	113	126.5	52.8	81.6	12	-	21	24	97	60	8	M8	9	M22X1.5	G1/4	124.5	38.5	122.5	29.3	36	12	53
63	142	149	68	97	19.5	5	21	30	123.5	68	15.5	M10	9	M26X1.5	G3/8	153.5	48.5	151	34.8	46	19.5	67

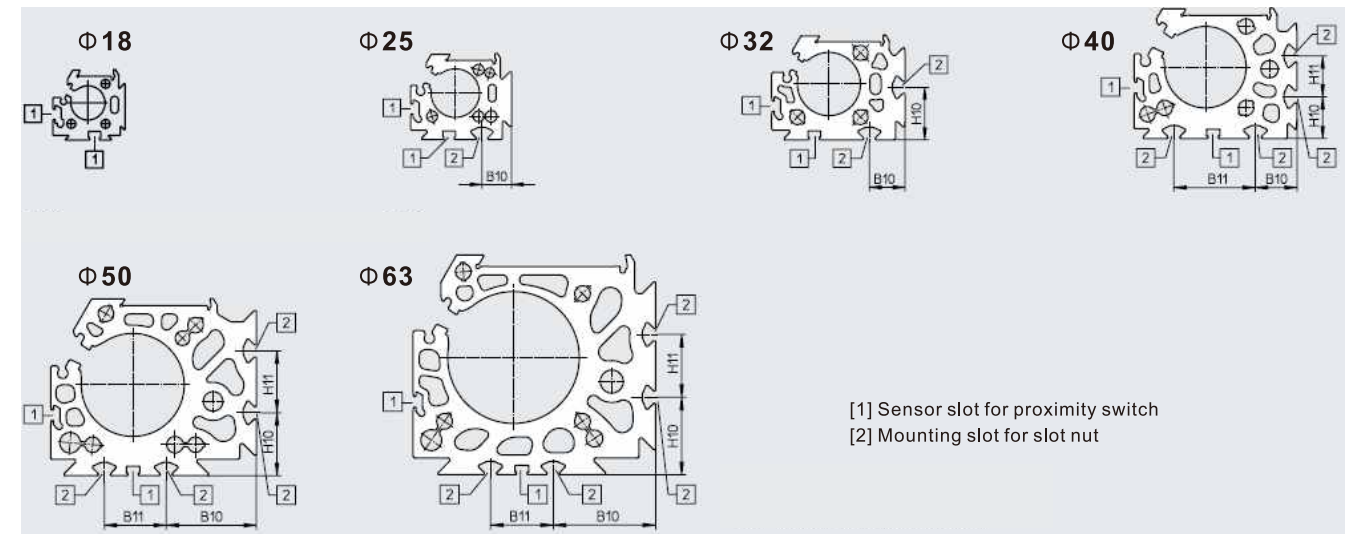
Bore size	H10	H11 ±0.2	H12 ±0.05	H13	J1	J2	J3	L1		L2	L3	L4	L5	L6	L7			T1	T3	T4	Stroke tolerance
								KF	1H-PN						PPV	YSR	YSRW				
50	104.5	8	100	52.8	30.5	30.5	28	350	555.8	175	17	17	41	17	0	31	36.3	24	2.1	28.75	0~2.5
63	131	15.5	120	68	41.5	39.5	31.5	400	-	200	20	20	44	20	0	38.3	48.3	27.5	2.1	36.1	

Length tolerance For stroke [mm]

Stroke	≤1000	≤2000	≤3000	≤4000	≤5000	≤6000	≤7000	≤8000	≤9000
L1	+0.90	+1.10	+1.40	+1.50	+1.60	+1.70	+2.20	+2.30	+2.40

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Profile barrel



Bore size	B10	B11	H10	H11
25	15.23	-	-	-
32	18	-	26.5	-
40	20.5	40	20.5	20
50	43.8	30	30.5	30
63	49	30	37	30

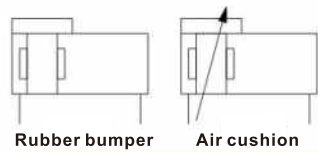
- [1] Sensor slot for proximity switch
- [2] Mounting slot for slot nut



Specifications												
Bore size(mm)	10	16	20	25	32	40	50	63	80	100		
Fluid	Air											
Acting type	Double acting											
Operating pressure[MPa]	0.2~0.8	0.15~0.8								0.1~0.8		
Proof pressure[MPa]	1.2											
Temperature °C	-5~60											
Cushion type	Rubber bumper					Air cushion						
Lubrication	Non-lube											
Stroke tolerance	1000 or less ^{+1.8} ₀			2700 or less ^{+1.8} ₀			1001 to 3000 ^{+2.8} ₀			2701 to 5000 ^{+2.8} ₀		
	1001 to 3000 ^{+2.8} ₀			2701 to 5000 ^{+2.8} ₀								
Piping port size	Front/Side port	M5 x 0.8			1/8"	1/4"	3/8"	1/2"				
	Bottom port	-	Φ4	Φ6	Φ8	Φ10	Φ18					

Stroke			
Bore size	Standard Stroke	Longer Stroke	Max.std stroke
10		Over Standard Stroke 2001~3000mm(1mm step)	3000
16			
20			
25	100,200,300,400		
32	500,600,700,800		
40	900,1000,1200,1400	Over Standard Stroke 2001~5000mm(1mm step)	5000
50	1600,1800,2000		
63			
80			
100			

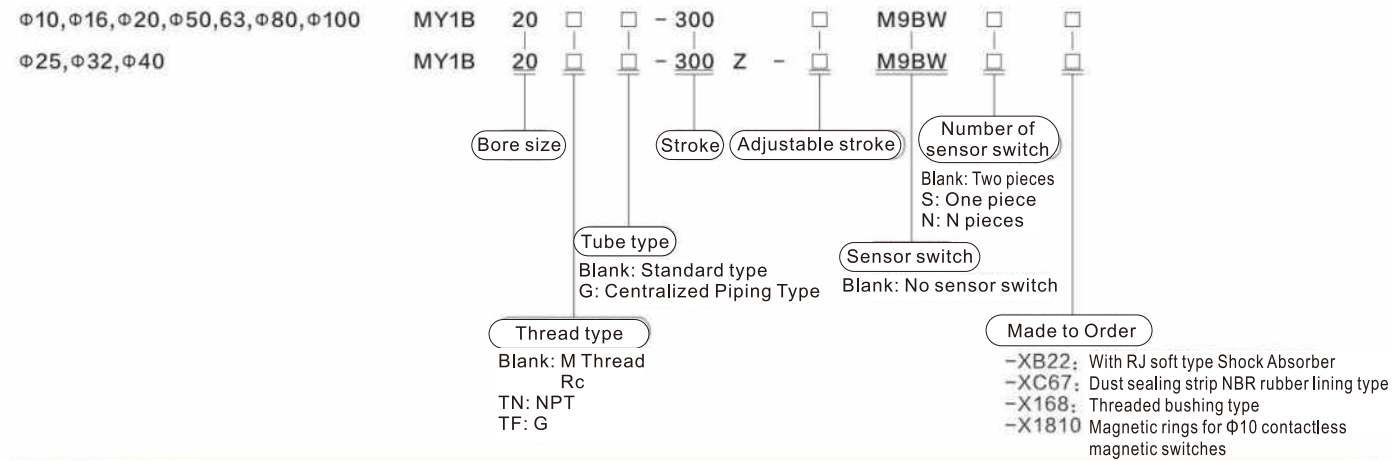
Symbol



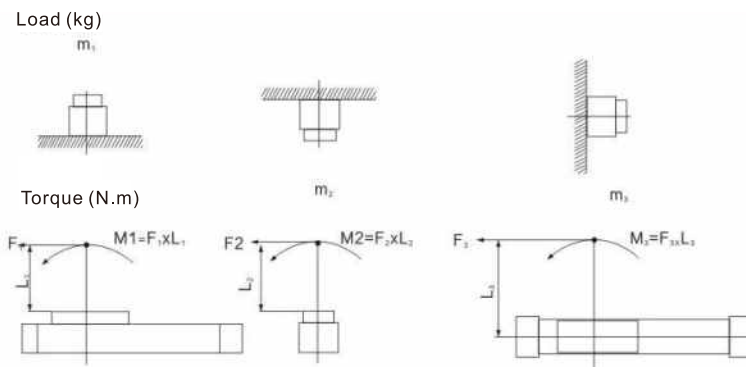
Ordering example

- Bore size: 25, Stroke: 500, Basic type
Correct Model: MY1B25-500Z
- Bore size: 32, Stroke: 200, With sensor switch
With stroke adjust bolt
Correct model: MY1B32-500AZ
D-M9BL One cylinder
BM Y3-016 Two sensor switch
 Two sensor switch mounting code

Ordering Code



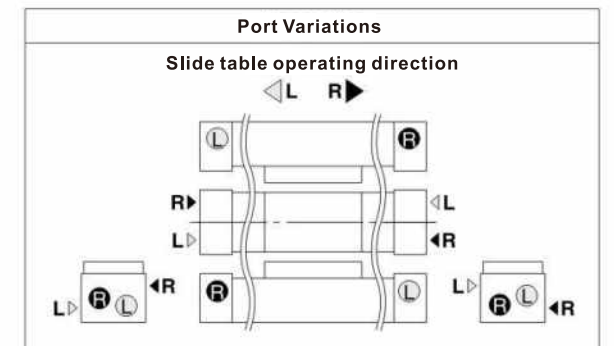
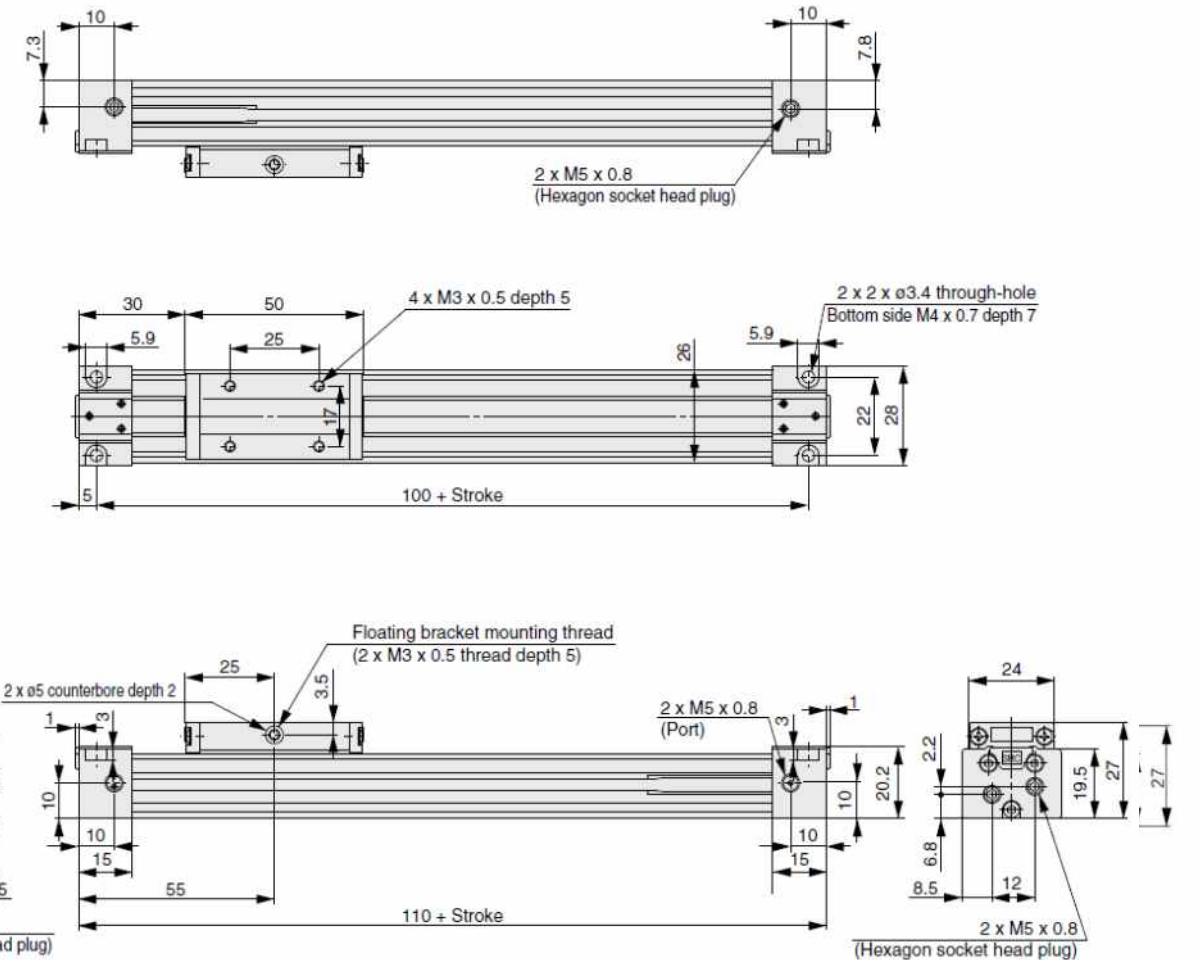
Torque and Load



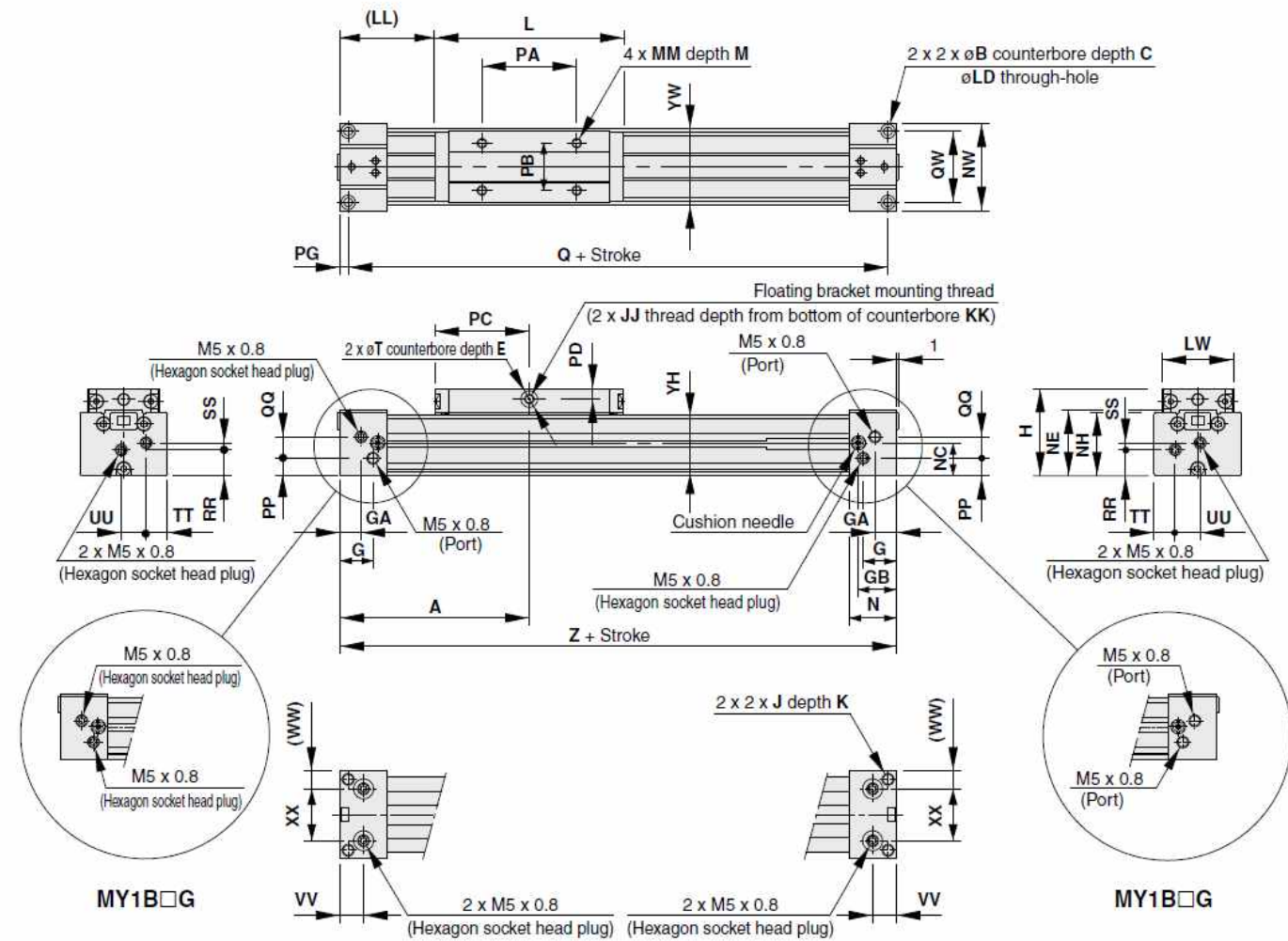
Type	Bore size (mm)	Maximum allowable torque(N.m)			Maximum load weight(kg)		
		M1	M2	M3	m1	m2	m3
MYB1	10	0.8	0.1	0.3	5.0	1.0	0.5
	16	2.5	0.3	0.8	15	3.0	1.7
	20	5.0	0.6	1.5	21	4.2	3.0
	25	10	1.2	3.0	29	5.8	5.4
	32	20	2.4	6.0	40	8.0	8.8
	40	40	4.8	12	53	10.6	14
	50	78	9.3	23	70	14	20
	63	160	19	48	83	16.6	29
	80	315	37	95	120	24	42
	100	315	73	184	150	30	60

Dimensions (mm)

MY1B10G - Stroke



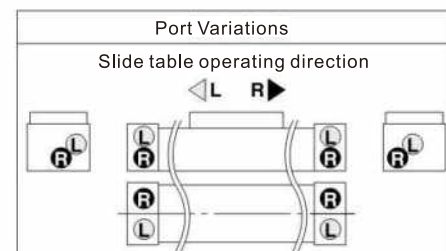
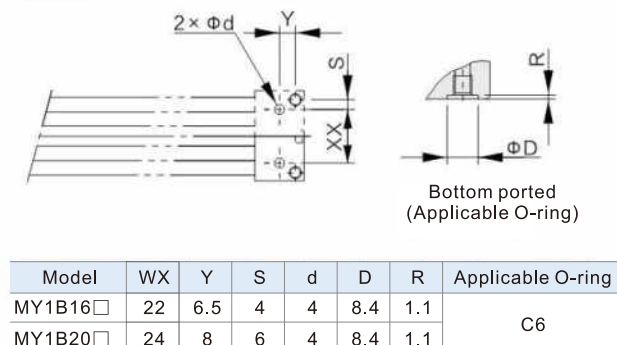
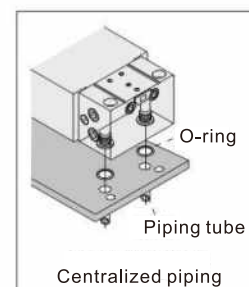
MY1B16□/20□ - Stroke



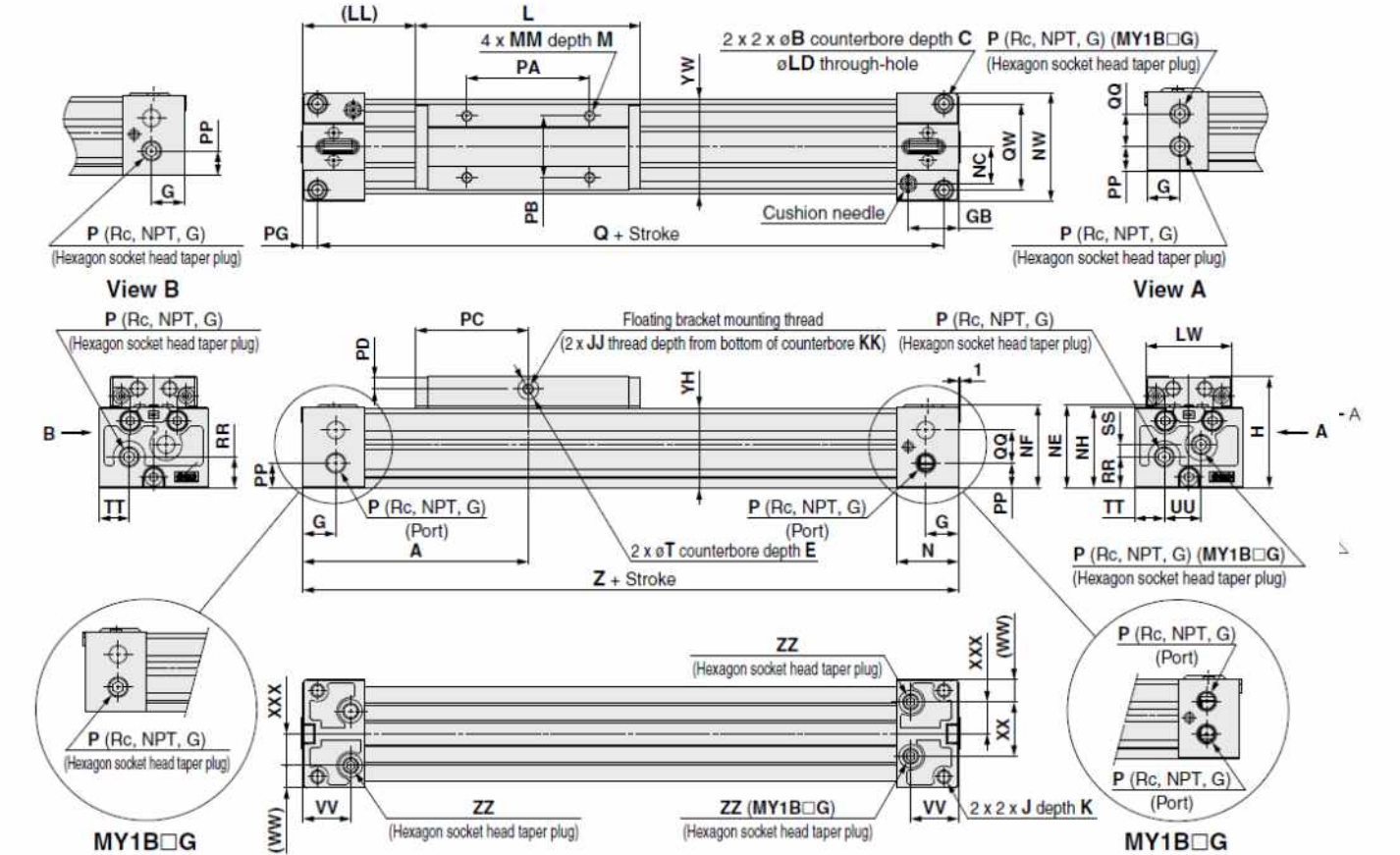
Model	A	B	C	E	G	GA	GB	H	J	JJ	K	KK	L	LD	LL	LW	M	MM	N	NC	NE
MY1B16□	80	6	3.5	2	14	9	16	37	M5X0.8	M4X0.7	10	6.5	80	3.5	40	30	6	M4X0.7	20	14	27.8
MY1B20□	100	7.5	4.5	2	12.5	12.5	20.5	46	M6X1	M4X0.7	12	10	100	4.5	50	37	8	M5X0.8	25	17.5	34

Model	NH	NW	PA	PB	PC	PD	PG	PP	Q	QQ	QW	RR	SS	T	TT	UU	VV	WW	XX	YH	YW	Z
MY1B16□	27	37	40	20	40	4.5	3.5	7.5	153	9	30	11	3	7	9	10.5	10	7.5	22	26	32	160
MY1B20□	33.5	45	50	25	50	5	4.5	11.5	191	11	36	14.5	5	8	10.5	12	12.5	10.5	24	32.5	40	200

Centralized Piping on the Bottom



MY1B25□/32□/40□ - Stroke

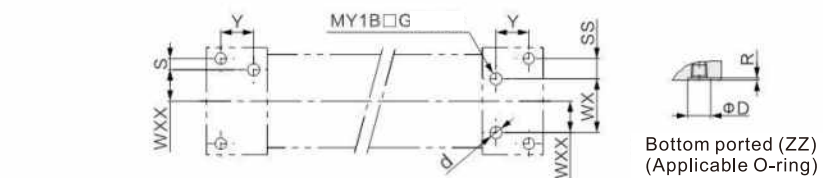


Standard piping/Centralized piping

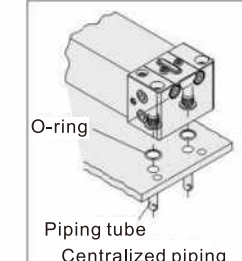
Model	A	B	C	E	G	GB	H	J	JJ	K	KK	L	LD	LL	LW	M	MM	N	NC	NE	NF	NH	NW
MY1B25□	110	9	5.5	2	16	24.5	54	M6X1	M5X0.8	9.5	9	110	5.6	55	42	9	M5X0.8	30	18	40.2	40.5	39	53
MY1B32□	140	11	6.6	2	19	28.5	68	M8X1.25	M5X0.8	16	10	140	6.8	70	52	12	M5X1	37	22	50.2	50	49	64
MY1B40□	170	14	8.5	2	23	35	84	M10X1.5	M6X1	15	13	170	8.6	85	64	12	M6X1	45	26.5	62.7	62	61.5	75

Model	P	PA	PB	PC	PD	PP	PG	Q	QW	RR	T	TT	VV	WW	XXX	YH	YW	Z	ZZ	Model	QQ	SS	UU	XX
MY1B25□	1/8	60	30	55	6	12	7	206	42	15	10	14.5	23.3	11	15.5	38.5	46	220	RC1/16	MY1B25□	16	6	18	26.5
MY1B32□	1/8	80	35	70	10	16	8	264	51	16	10	16	28.5	12	20	48	55	280	RC1/16	MY1B32□	16	11	32	40
MY1B40□	1/4	100	40	85	12	18.5	9	322	59	23.5	14	20	35	14	23.5	60.5	67	340	RC1/8	MY1B40□	24	12	35	47

Centralized Piping on the Bottom

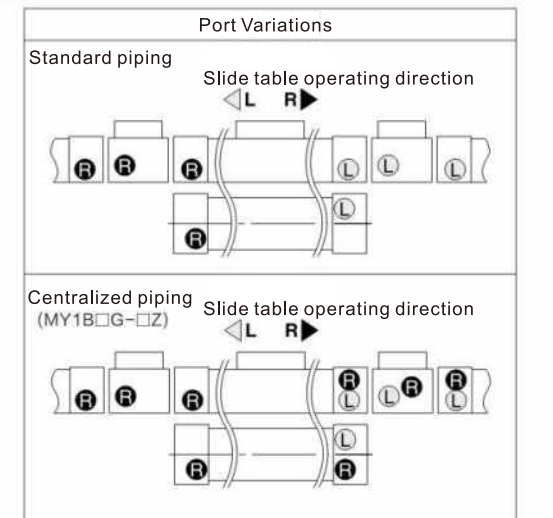


This figure shows the recommended machining dimensions of the mounting surface when viewed from the cylinder side.

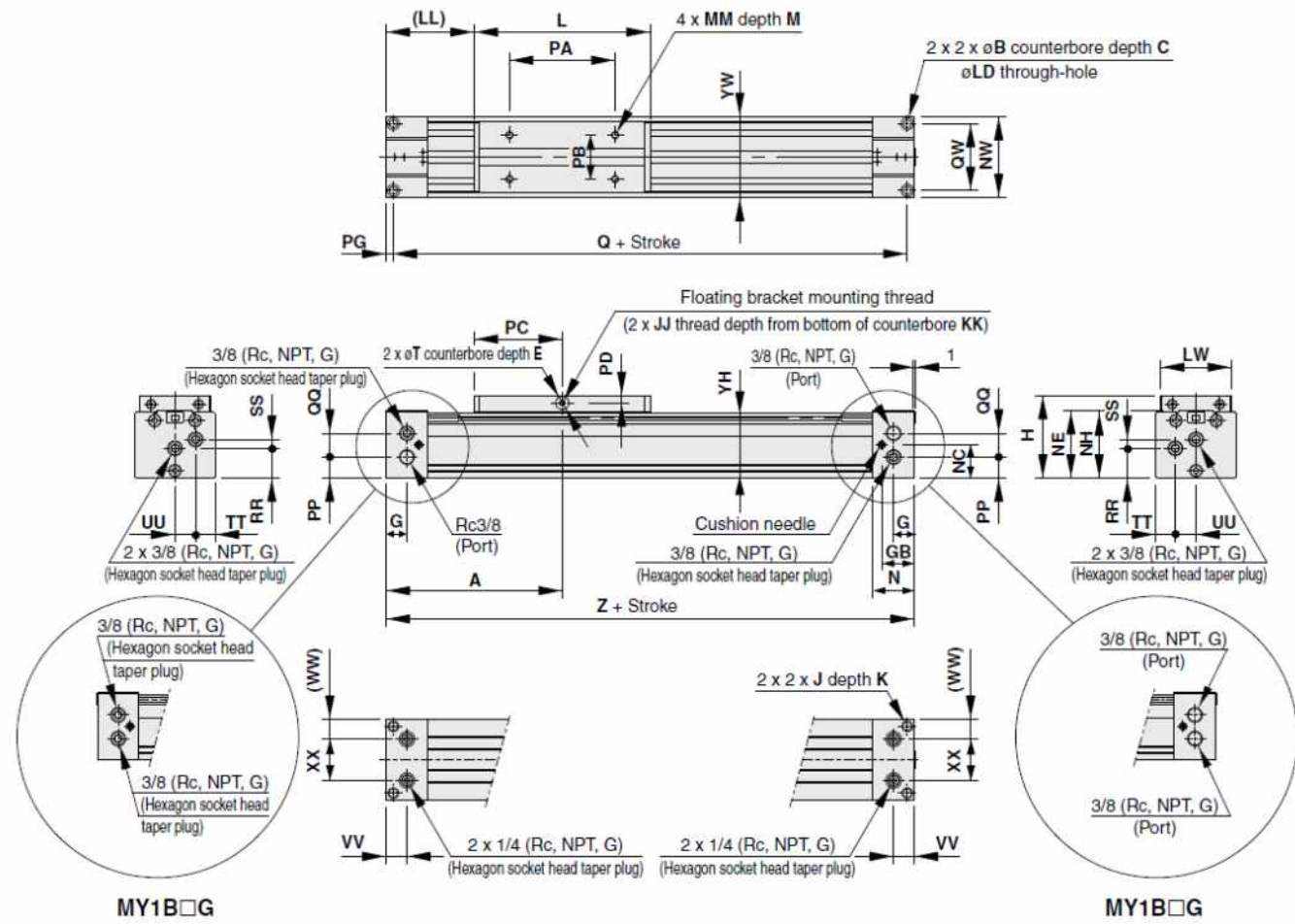


Model	WXX	Y	S	d	D	R	Applicable O-ring
MY1B25□	15.5	16.2	5.5	6	11.4	1.1	C9
MY1B32□	20	20.4	5.5	6	11.4	1.1	
MY1B40□	23.5	25.9	6	8	13.5	1.1	C11.2

Model	WX	SS
MY1B25□	26.5	10
MY1B32□	40	5.5
MY1B40□	47	6



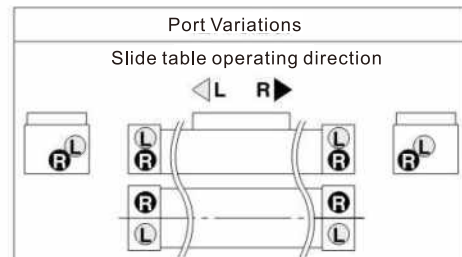
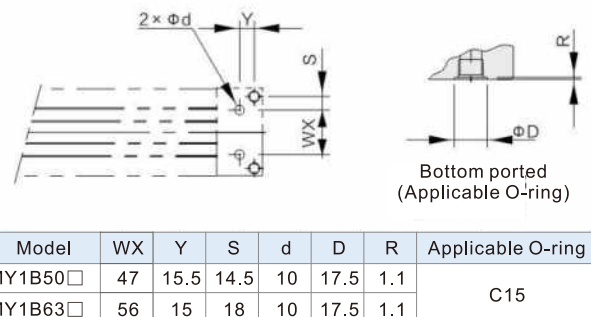
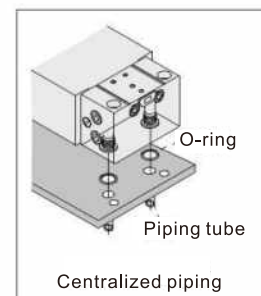
MY1B50□/63□-Stroke



Model	A	B	C	E	G	GB	H	J	JJ	K	KK	L	LD	LL	LW	M	MM	N	NC	NE
MY1B50□	200	14	8.5	3	23.5	37	94	M12X1.75	M6X1	25	17	200	9	100	80	14	M8X1.25	47	38	76.5
MY1B63□	230	17	10.5	3	25	39	116	M14X2	M8X1.25	28	24	230	11	115	96	16	M8X1.25	50	51	100

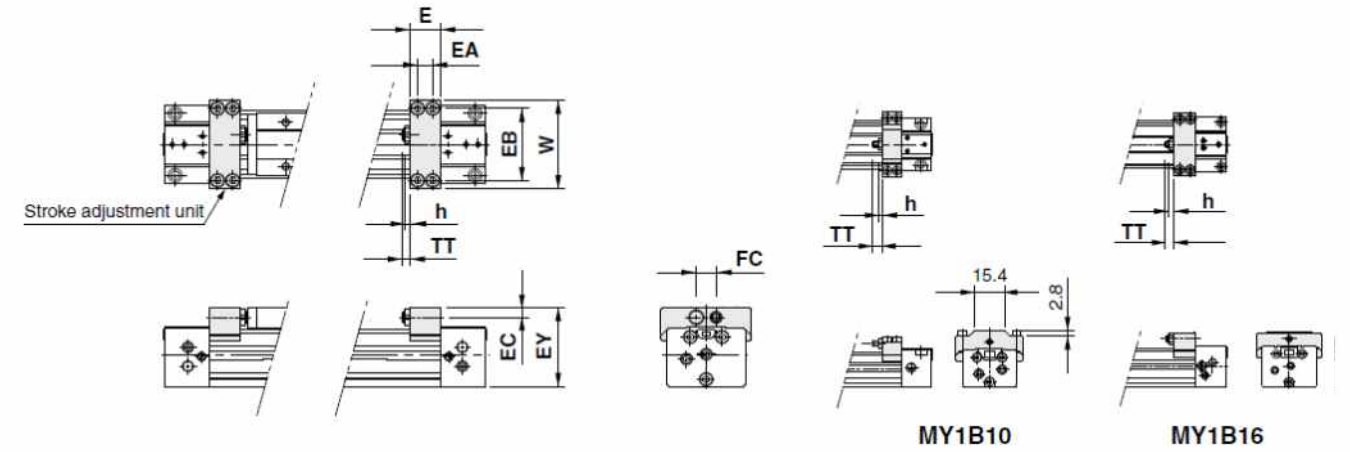
Model	NH	NW	PA	PB	PC	PD	PG	PP	Q	QQ	QW	RR	SS	T	TT	UU	VV	WW	XX	YH	YW	Z
MY1B50□	75	92	120	50	100	8.5	8	24	384	27	76	34	10	15	22.5	23.5	23.5	22.5	47	74	92	400
MY1B63□	95	112	140	60	115	9.5	10	37.5	440	29.5	92	45.5	13.5	16	27	29	29	28	56	94	112	460

Centralized Piping on the Bottom



Stroke Adjustment Units

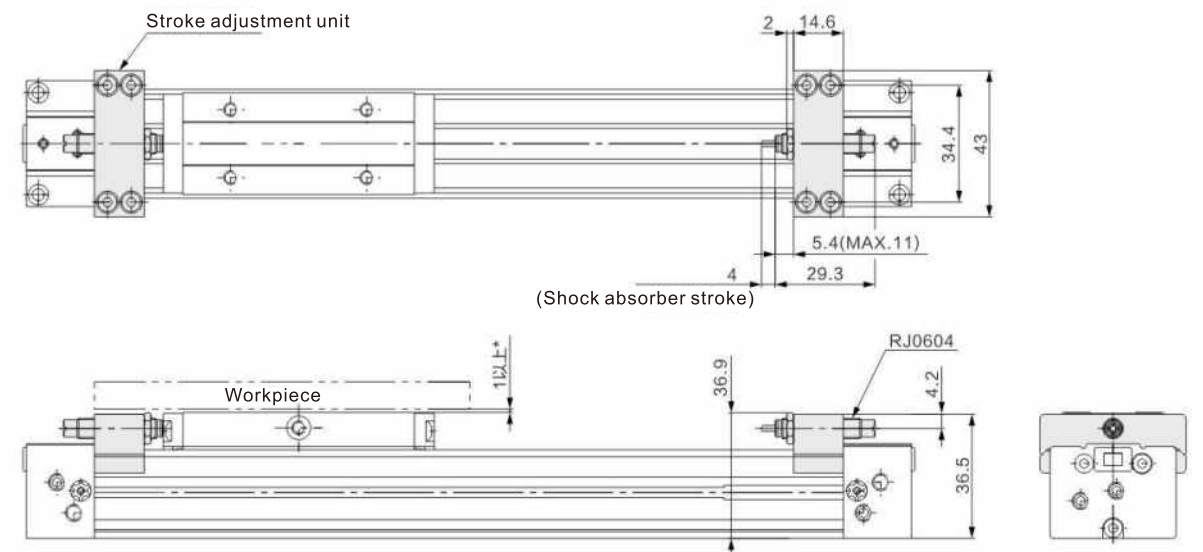
With adjustment bolt
MY1B Bore size □ - Stroke A(Z)



Model	E	EA	EB	EC	EY	FC	h	TT	W
MY1B10	10	5	28	3.2	26.3	-	1.8	5(MAX10)	35
MY1B16	14.6	7	34.4	4.2	36.5	-	2.4	5.4(MAX11)	43
MY1B20	19	9	43	5.8	45.6	13	3.2	6(MAX12)	53
MY1B25	20	10	49	6.5	53.5	13	3.5	5(MAX16.5)	60
MY1B32	25	12	61	8.5	67	17	4.5	8(MAX20)	74
MY1B40	31	15	76	9.5	81.5	17	4.5	9(MAX25)	94

With low load shock absorber + Adjustment bolt
MY1B Bore size □ - Stroke L(Z)

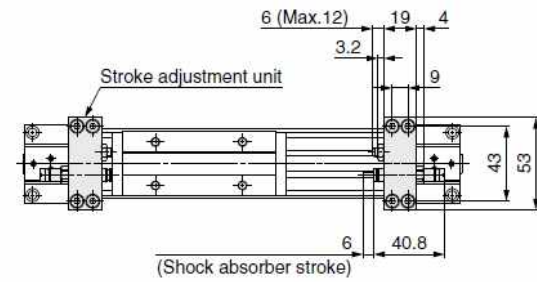
Φ16



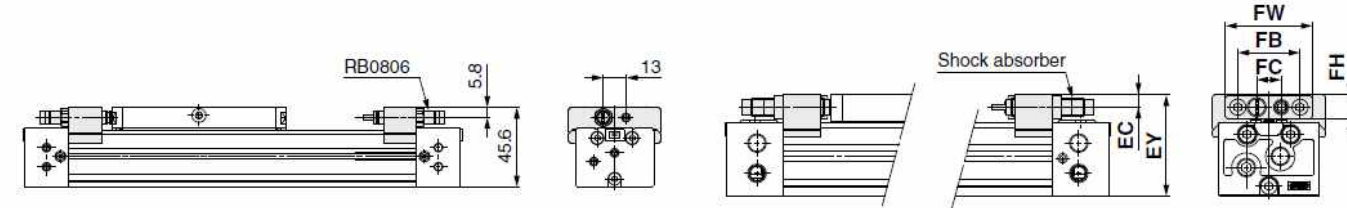
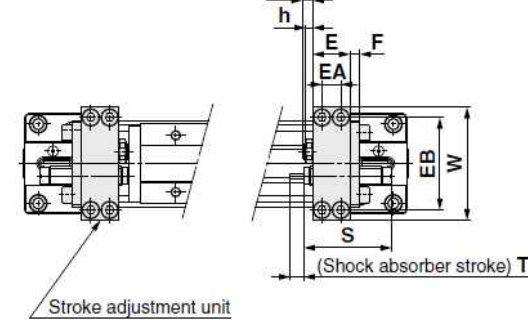
*1 The clearance between the stroke adjustment unit height dimension (36.9 mm) and the slide table top height (37 mm) is very small, so there is a possibility of interference. For this reason, when mounting a workpiece that exceeds the overall length of the slide table, secure a clearance of 1 mm or more on the workpiece side.

With low load shock absorber + Adjustment bolt
MY1B Bore size □ - Stroke L(Z)

ø20

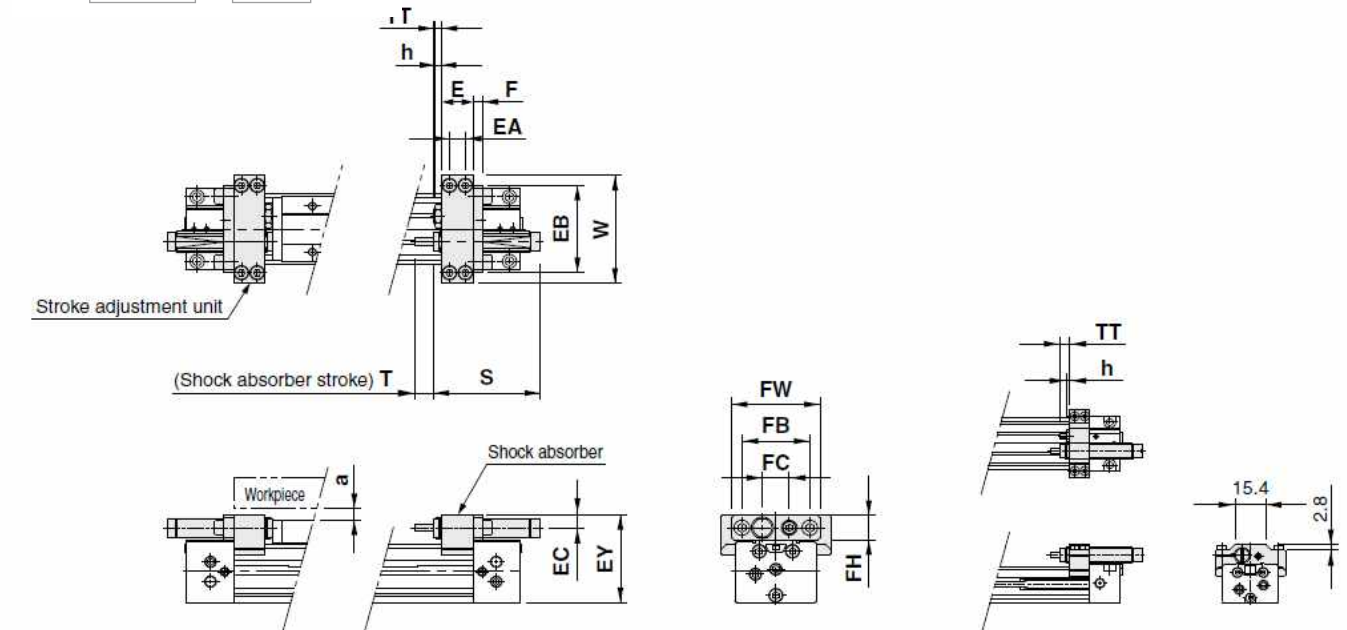


ø25 to ø40



Model	E	EA	EB	EC	EY	F	FB	FC	FH	FW	h	S	T	TT	W	Shock absorber model
MY1B25	20	10	49	6.5	53.5	6	33	13	12	46	3.5	46.7	7	5(MAX16.5)	60	RB1007
MY1B32	25	12	61	8.5	67	6	43	17	16	56	4.5	67.3	12	8(MAX20)	74	RB1412
MY1B40	31	15	76	9.5	81.5	6	43	17	16	56	4.5	67.3	12	9(MAX25)	94	RB1412

With high load shock absorber + Adjustment bolt
MY1B Bore size □ - Stroke H(Z)



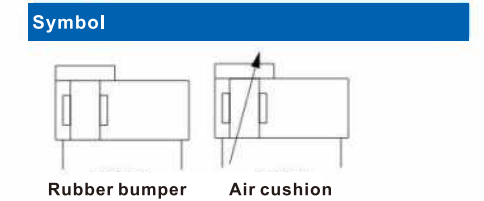
* Since the EY dimension of H unit is longer than the table top height (H dimension), when mounting a workpiece that exceeds the overall length (L dimension) of the slide table, allow a clearance of dimension "a" or longer on the workpiece side.

Model	E	EA	EB	EC	EY	F	FB	FC	FH	FW	h	S	T	TT	W	Shock absorber model	a
MY1B10	10	5	28	5.5	29.8	-	-	8	-	-	10	10	10	5(MAX10)	35	RB0805	3.5
MY1B20	20	10	49	6.5	47.5	6	33	13	12	46	20	20	20	5(MAX11)	60	RB1007	2.5
MY1B25	20	10	57	8.5	57.5	6	43	17	16	56	20	20	20	5(MAX16.5)	70	RB1412	4.5
MY1B32	25	12	74	11.5	73	8	57	22	22	74	25	25	25	8(MAX20)	90	RB2015	6
MY1B40	31	15	82	12	87	8	57	22	22	74	31	31	31	9(MAX25)	100	Rb2015	4

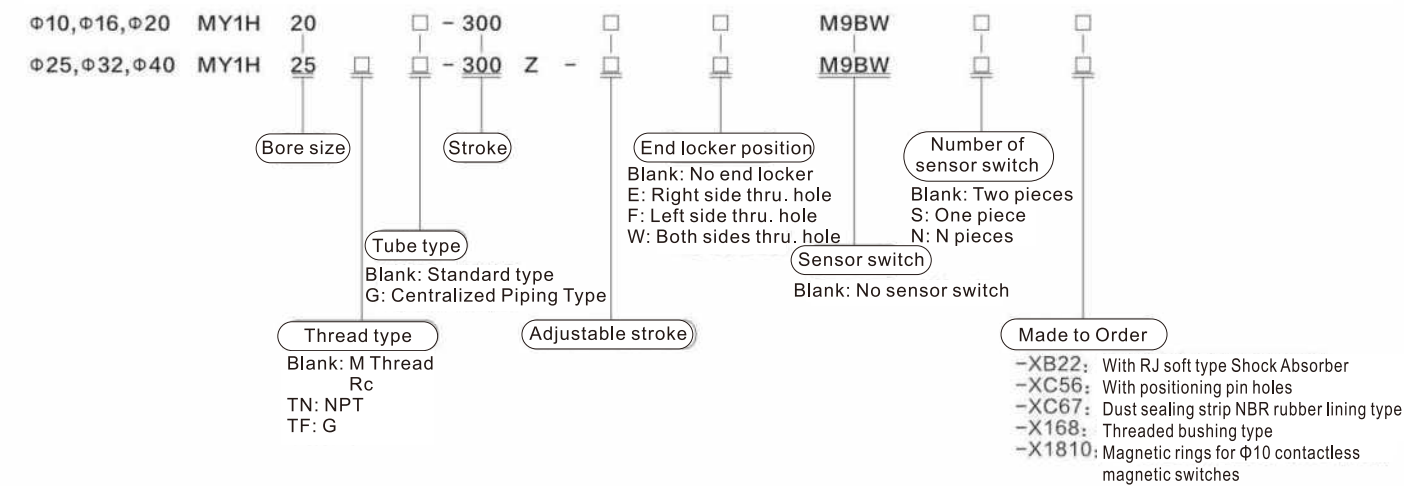


Specifications						
Bore size(mm)	10	16	20	25	32	40
Fluid	Air					
Acting type	Double acting					
Operating pressure[MPa]	0.2~0.8	0.15~0.8	0.1~0.8			
Proof pressure[MPa]	1.2					
Temperature °C	-5~60					
Cushion type	Rubber bumper		Air cushion			
Lubrication	Non-lube					
Stroke tolerance	+1.8 0					
Piping port size	Front/Side port	M5 x 0.8	1/8"	1/4"		
	Bottom port	-	Φ4	Φ6	Φ8	

Stroke	Standard Stroke	Mid Stroke	Longer Stroke	Max. std stroke
10		Strokes of the outside standard stroke 60~590mm(10mm step)	-	-
16	50,100,150	Strokes of the outside standard stroke 51~599mm(1mm step)	Strokes of the over standard stroke 601~1000mm(1mm step)	1000
20	200,250,300		Strokes of the over standard stroke 601~1500mm(1mm step)	1500
25	350,400,450 500,550,600			
32				
40				



Ordering Code

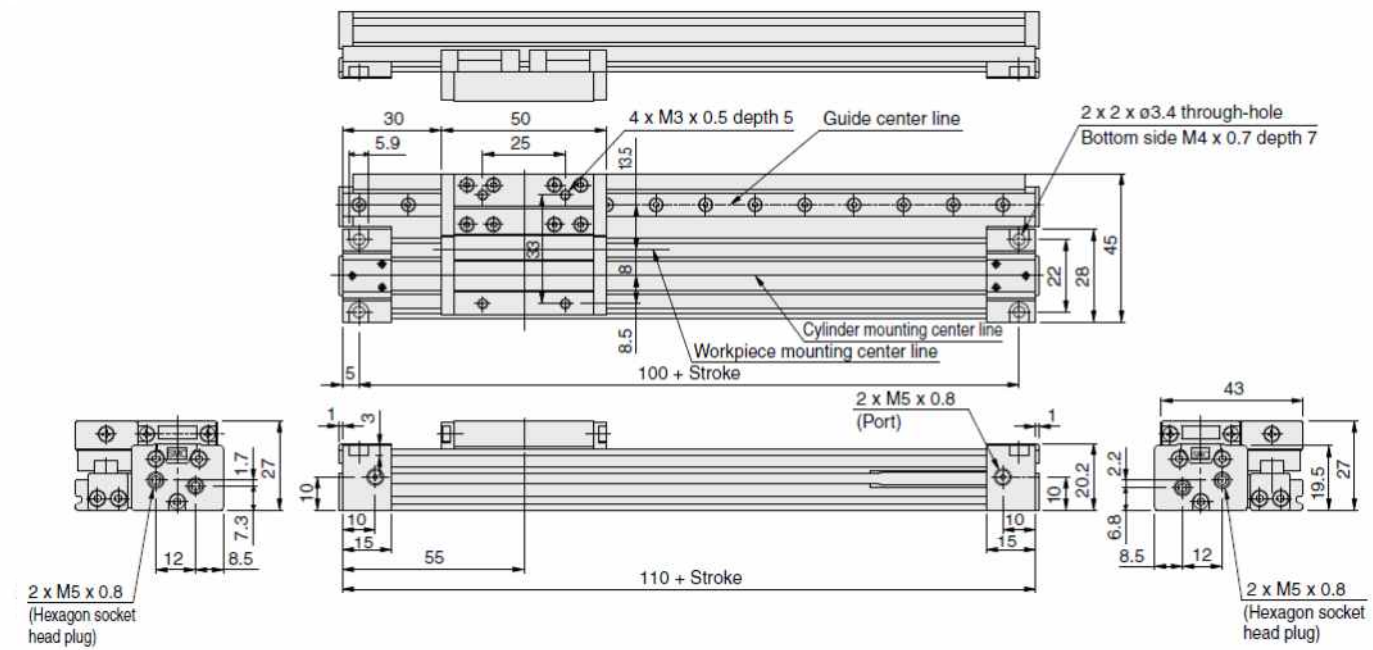


Torque and Load

Type	Bore size (mm)	Maximum allowable torque(N.m)			Maximum load weight(N)		
		M1	M2	M3	W1	W2	W3
MY1H	10	0.8	1.1	0.8	61	61	61
	16	3.7	4.9	3.7	108.0	108.0	108.0
	20	11	16	11	176.0	176.0	176.0
	25	23	26	23	275.0	275.0	275.0
	32	39	50	39	392.0	392.0	392.0
	40	40	50	39	500.0	500.0	500.0

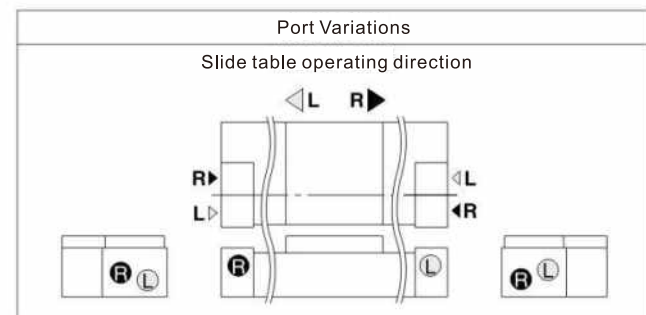
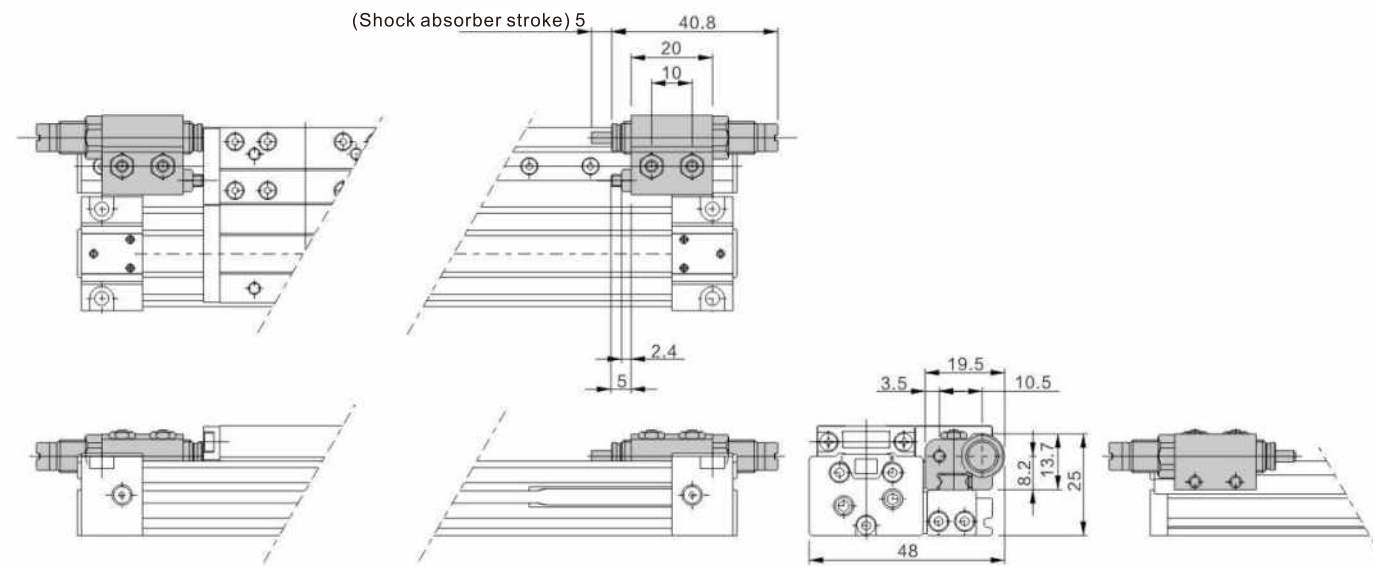
Dimensions (mm)

MY1H10G-Stroke

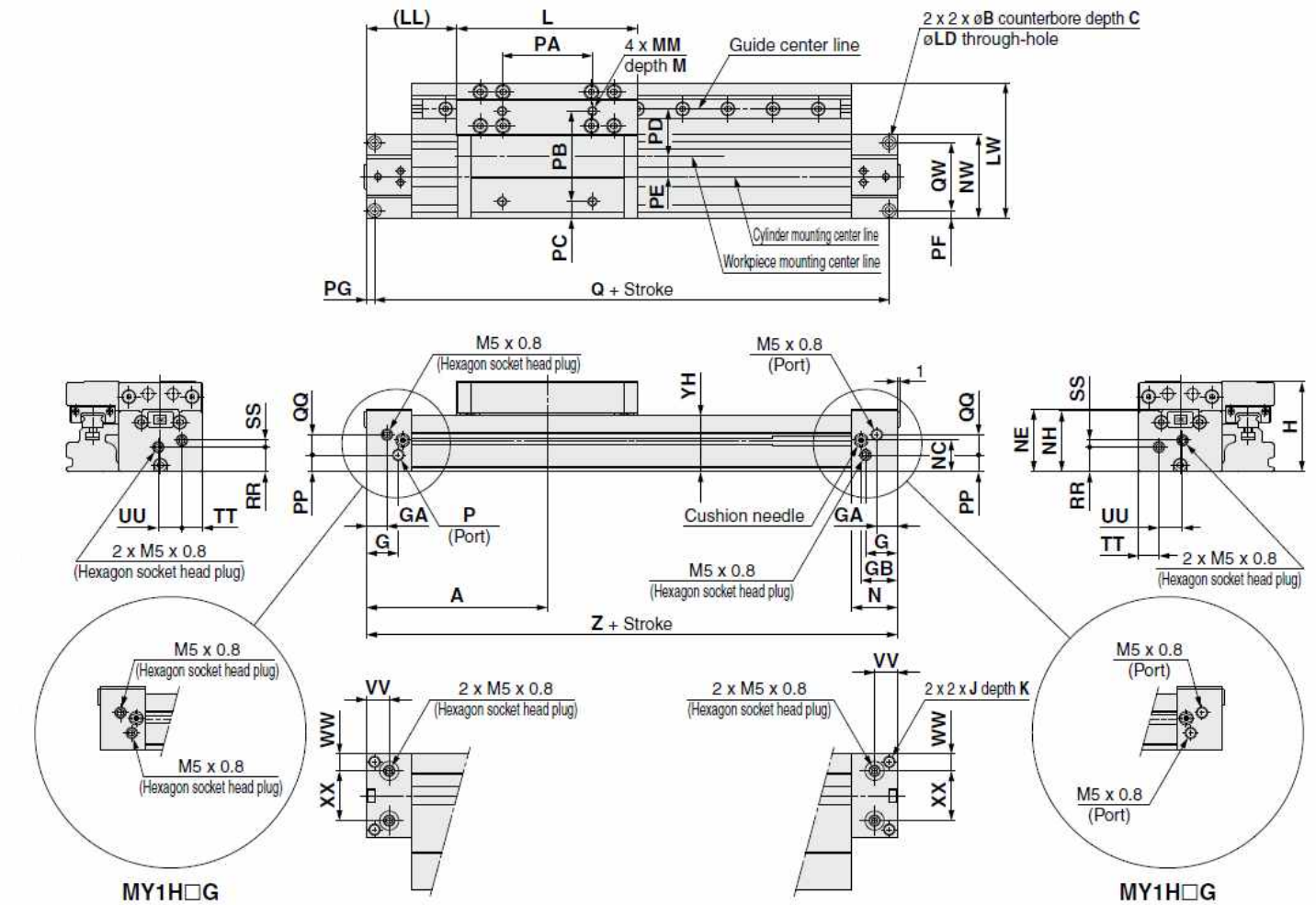


With shock absorber + Adjustment bolt

MY1H10G-Stroke



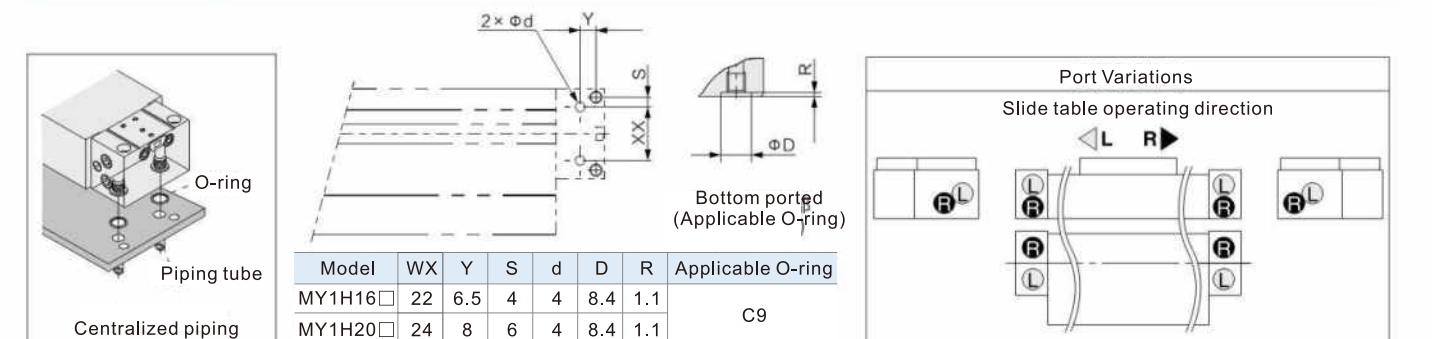
MY1H16□/20□-Stroke



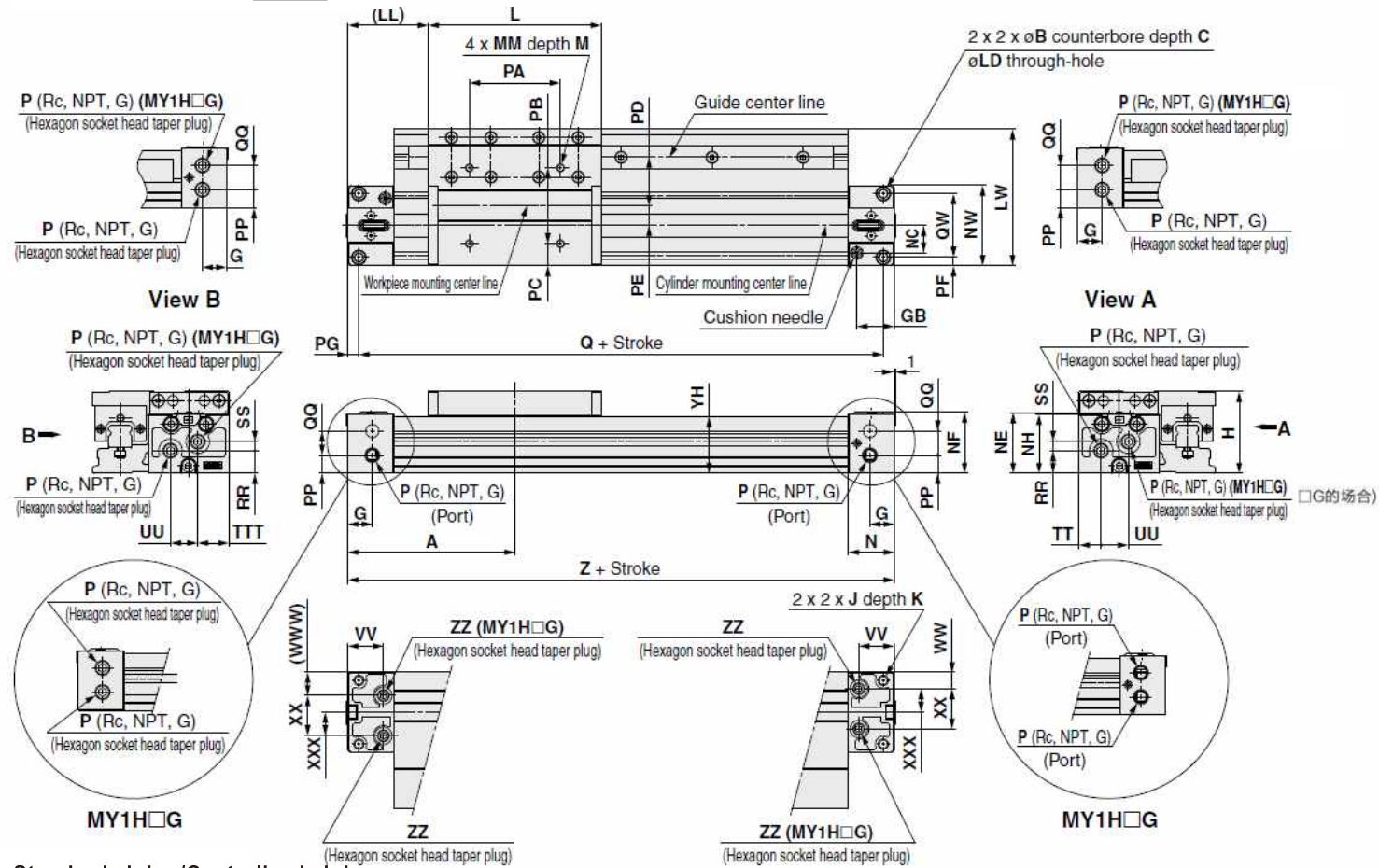
Model	A	B	C	G	GA	GB	H	J	K	L	LD	LL	LW	M	MM	N	NC	NE	NH	NW
MY1H16□	80	6	3.5	14	9	16	40	M5X0.8	10	80	3.5	40	60	7	M4X0.7	20	14	27.8	27	37
MY1H20□	100	7.5	4.5	12.5	12.5	20.5	46	M6X1	12	100	4.5	50	78	8	M5X0.8	25	17.5	34	33.5	45

Model	PA	PB	PC	PD	PE	PF	PG	PP	Q	QQ	QW	RR	SS	TT	UU	VV	WW	XX	YH	Z
MY1H16□	40	40	7.5	21	9	3.5	3.5	7.5	153	9	30	11	3	9	10.5	10	7.5	22	26	160
MY1H20□	50	40	14.5	27	12	4.5	4.5	11.5	191	11	36	14.5	5	10.5	12	12.5	10.5	24	32.5	200

Centralized Piping on the Bottom



MY1H25□ / 32□ / 40□ - Stroke Z



Standard piping/Centralized piping

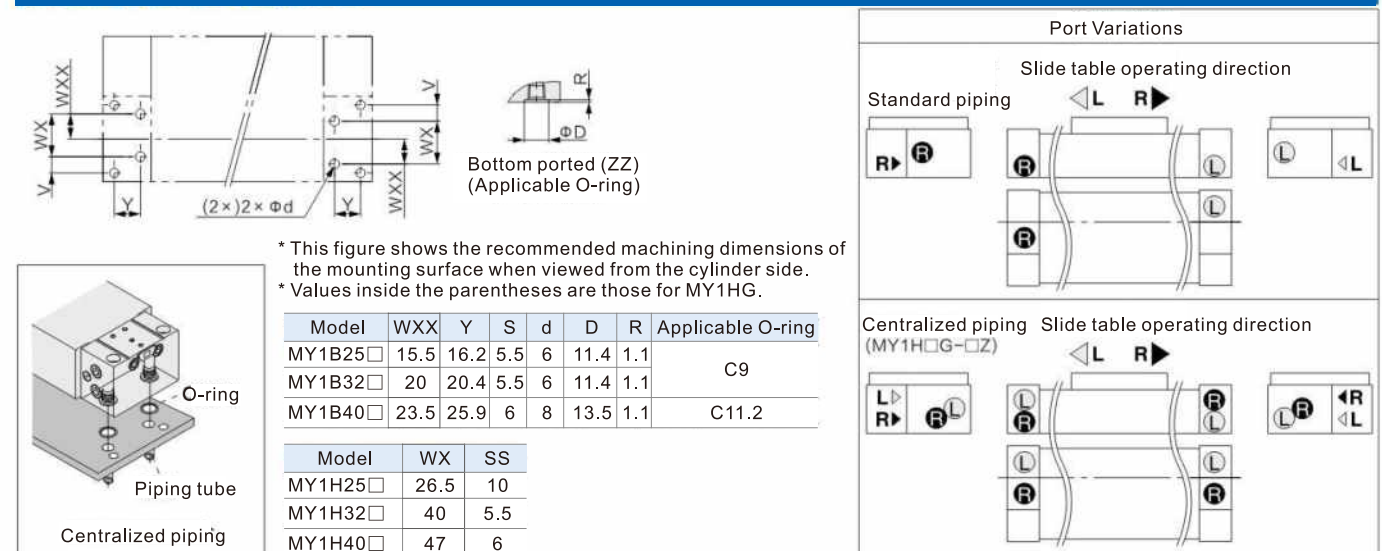
Model	A	B	C	G	GB	H	J	K	L	LD	LL	LW	M	MM	N	NC	NE	NF	NH	NW	P	PA	PB	PC
MY1H25□	110	9	5.5	16	24.5	54	110	9.5	114	5.6	53	90	9	110	30	18	40.2	40.5	39	53	1/8	60	50	14.5
MY1H32□	140	11	6.6	19	28.5	68	140	16	140	6.8	70	110	12	140	37	22	50.2	50	49	64	1/8	80	60	15
MY1H40□	170	14	8.5	23	35	84	170	15	170	8.6	85	121	12	170	45	26.5	62.7	62	61.5	75	1/4	100	80	20.5

Model	PD	PE	PF	PG	PP	Q	QW	RR	TT	TTT	VV	WW	WWW	XXX	YH	Z	ZZ
MY1H25□	32	13	5.5	7	12	206	42	15	14.5	20.5	23.3	11	15.5	15.5	38.5	220	1/16
MY1H32□	42	13	6.5	8	16	264	51	16	16	16	28.5	12	12	20	48	280	1/16
MY1H40□	37.5	23	8	9	18.5	322	59	23.5	20	20	35	14	14	23.5	60.5	340	1/8

Centralized piping

Model	QQ	SS	UU	XX
MY1H25□	16	6	18	26.5
MY1H32□	16	11	32	40
MY1H40□	24	12	35	47

Centralized Piping on the Bottom



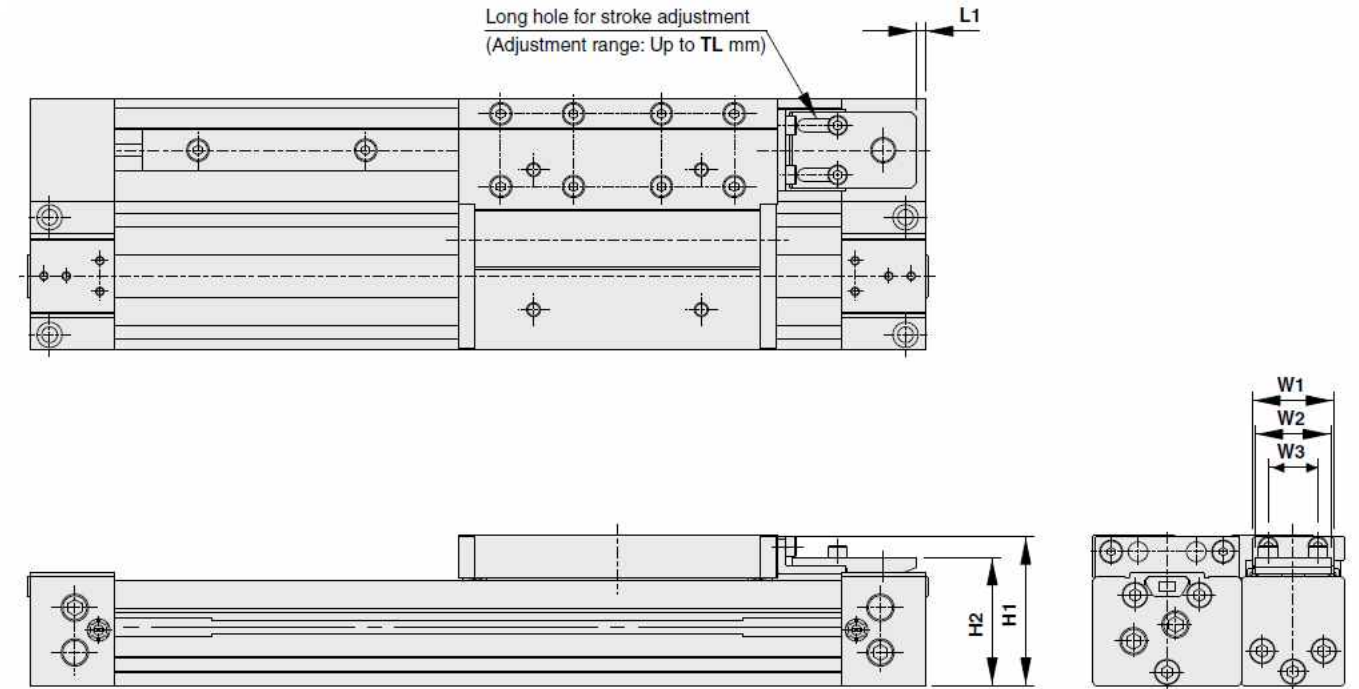
* This figure shows the recommended machining dimensions of the mounting surface when viewed from the cylinder side.
 * Values inside the parentheses are those for MY1HG.

Model	WXX	Y	S	d	D	R	Applicable O-ring
MY1B25□	15.5	16.2	5.5	6	11.4	1.1	C9
MY1B32□	20	20.4	5.5	6	11.4	1.1	C9
MY1B40□	23.5	25.9	6	8	13.5	1.1	C11.2

Model	WX	SS
MY1H25□	26.5	10
MY1H32□	40	5.5
MY1H40□	47	6

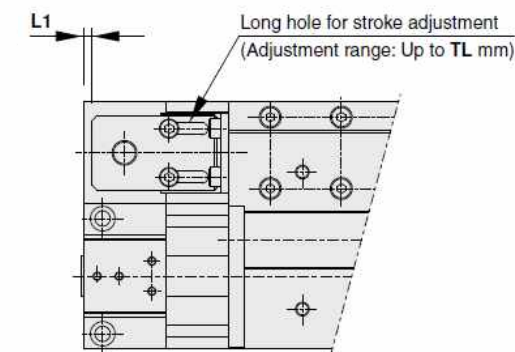
With End Lock

MY1H□ - □ E
(Right end)



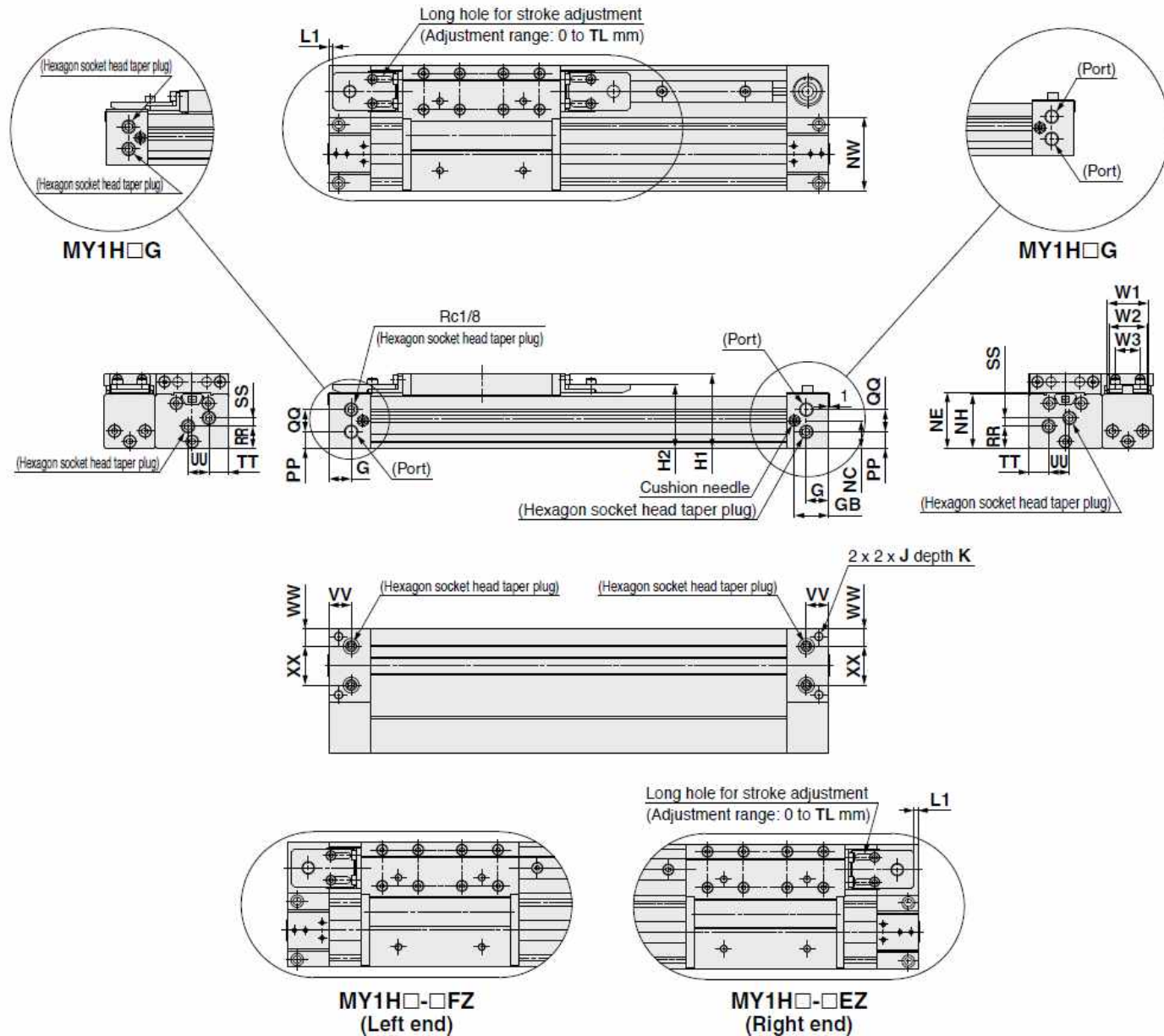
MY1H□ - □ F
(Left end)

MY1H□ - □ W
(Both ends)



Model	H1	H2	L1	TL	W1	W2	W3
MY1H16□	39.2	33	0.5	5.6	18	16	10.4
MY1H20□	45.7	39.5	3	6	18	16	10.5

MY1H□ - □ WZ (Both ends)



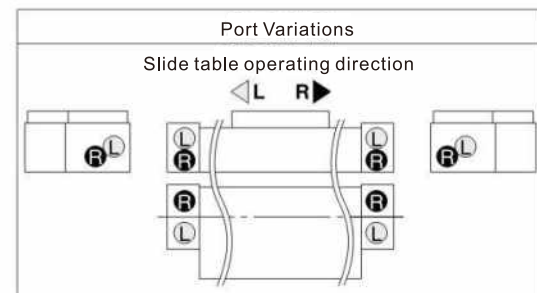
Standard piping/Centralized piping [mm]

Model	NC	NE	PP	RR	SS	UU	VV	WW	XX
MY1H25	20	40.5	12	16	6	15	16	12.5	28
MY1H32	25	50	17	23	4	16	19	16	32
MY1H40	30.5	63	8.5	27	10.5	22	23	19.5	36

* The dimensions of the TT, G, GB, and NA are the same as those of the standard product.

End lock mechanism (Standard piping/Centralized piping) [mm]

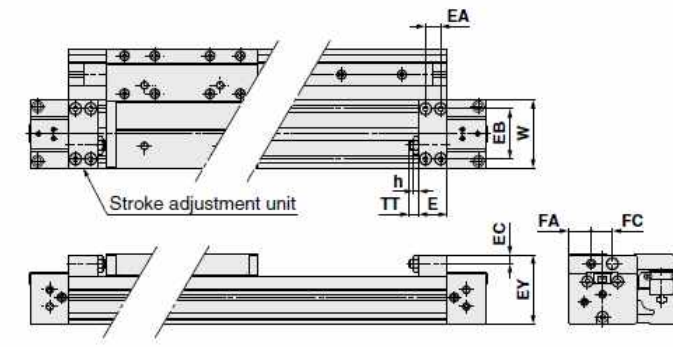
Model	H1	H2	L1	LT	W1	W2	W3
MY1H25	53.5	46	3	11.5	29.3	27.3	17.7
MY1H32	67	56	6.5	12	29.3	27.3	17.7
MY1H40	83	68.5	10.5	16	38	35	24.4



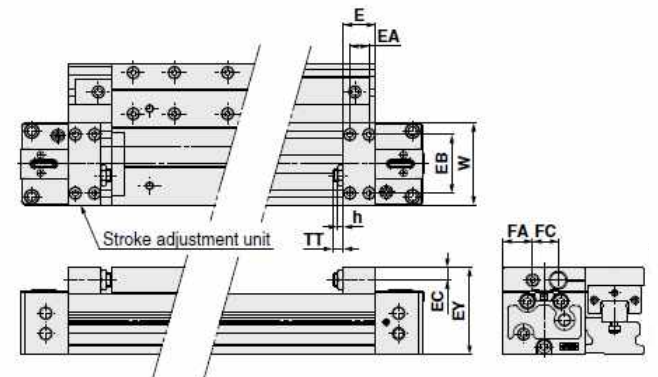
Stroke Adjustment Units

With adjustment bolt
MY1H Bore size □ - Stroke A(Z)

φ16, φ20



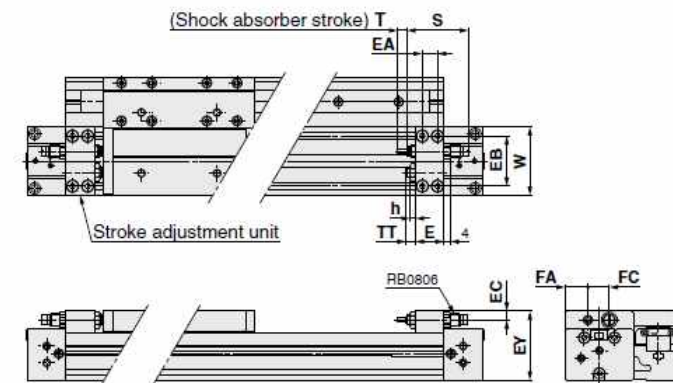
φ25, φ32, φ40



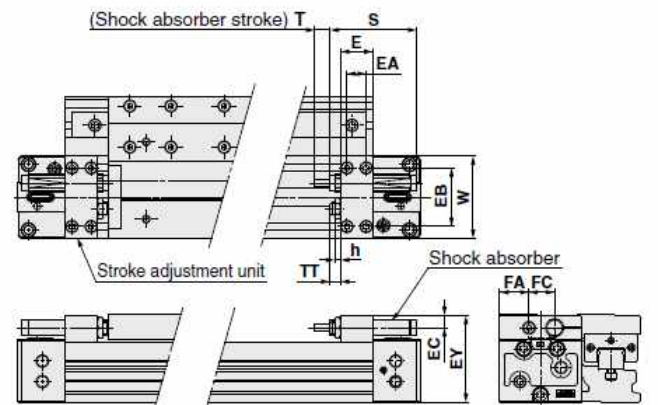
Model	E	EA	EB	EC	EY	FA	FC	h	TT	W
MY1H16	14.6	7	28	5.8	39.5	11.5	13	3.6	5.4(MAX.11)	37
MY1H20	19	10	33	5.8	45.5	15	14	3.6	6(MAX.12)	45
MY1H25	18	9	40	7.5	53.5	16	21	3.5	5(MAX.16.5)	53
MY1H32	25	14	45.6	9.5	67.5	23	20	4.5	8(MAX.20)	64
MY1H40	31	19	55	11	82	24.5	26	4.5	9(MAX.25)	75

With low load shock absorber + Adjustment bolt
MY1H Bore size □ - Stroke L(Z)

φ16, φ20



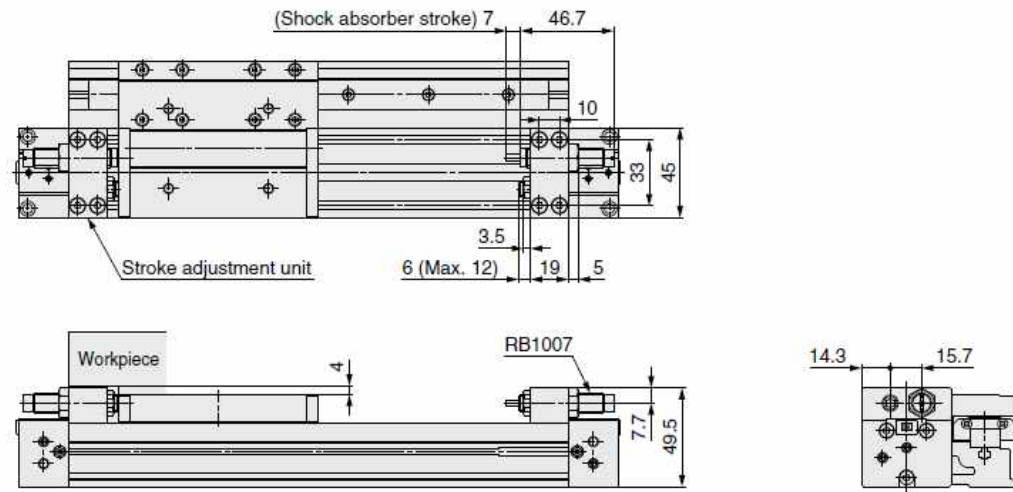
φ25, φ32, φ40



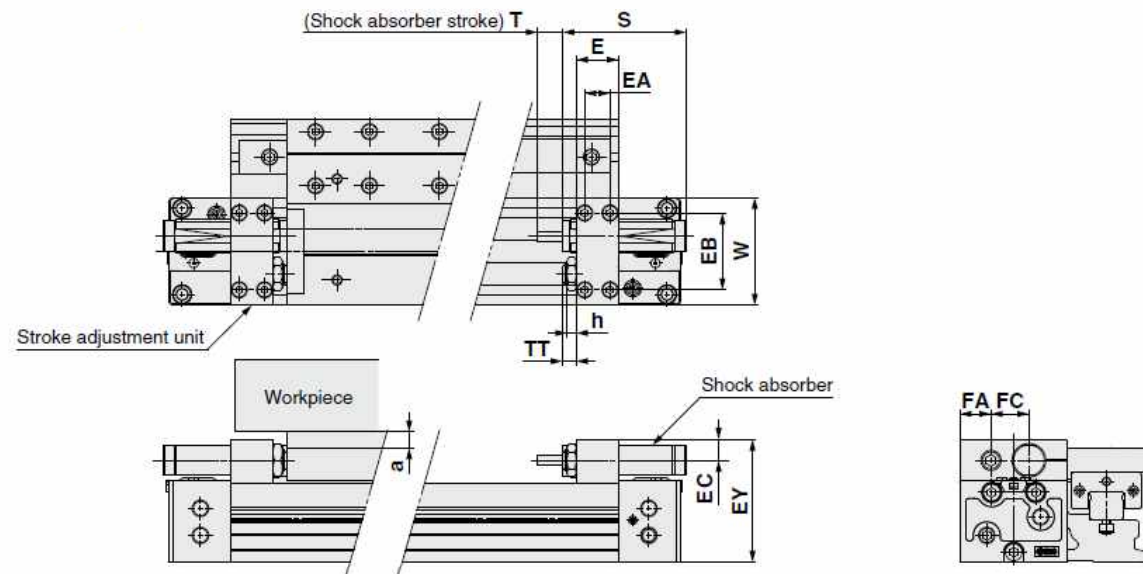
Model	E	EA	EB	EC	EY	FA	FC	h	S	T	TT	W	Shock absorber model
MY1H16	14.6	7	28	5.8	39.5	11.5	13	3.6	40.8	6	5.4(MAX.11)	37	RB0806
MY1H20	19	10	33	5.8	45.5	15	14	3.6	40.8	6	6(MAX.12)	45	RB0806
MY1H25	18	9	40	7.5	53.5	16	21	3.5	46.7	7	5(MAX.16.5)	53	RB1007
MY1H32	25	14	45.6	9.5	67.5	23	20	4.5	67.3	12	8(MAX.20)	64	RB1412
MY1H40	31	19	55	11	82	24.5	26	4.5	67.3	12	9(MAX.25)	75	RB1412

With high load shock absorber + Adjustment bolt
 MY1H Bore size □ - Stroke H(Z)

Φ20



Φ25, Φ32, Φ40



* Since the EY dimension of H unit is longer than the table top height (H dimension), when mounting a workpiece that exceeds the overall length (L dimension) of the slide table, allow a clearance of dimension "a" or longer on the workpiece side.

Model	E	EA	EB	EC	EY	FA	FC	h	S	T	TT	W	Shock absorber model	a
MY1H25	18	9	40	9	57	18	17.5	4.5	67.3	12	5(MAX.16.5)	53	RB1412	3.5
MY1H32	25	14	45.6	12.4	73	18.5	22.5	5.5	73.2	15	8(MAX.20)	64	RB2015	5.5
MY1H40	31	19	55	12.4	86	26.5	22	5.5	73.2	15	9(MAX.25)	75	RB2015	2.5

Accessory Brackets (Option)

Stroke Adjustment Units

MYH - A 25 L2 - 6N

Stroke adjustment unit Bore size Unit no.

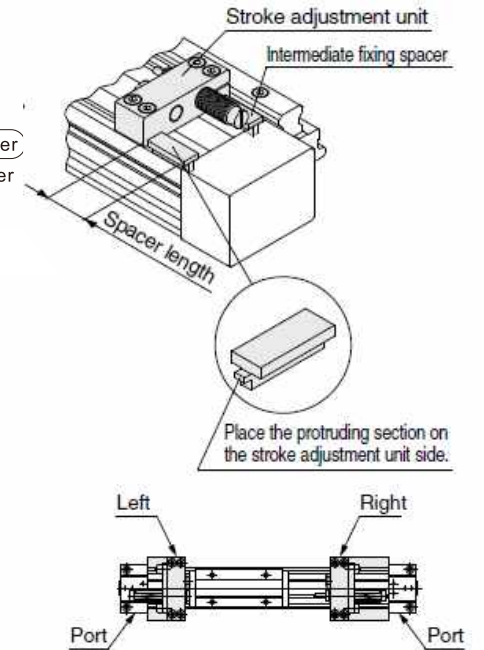
Symbol	Stroke adjustment unit	Mounting position
A1	A unit	Left
A2		Right
L1	L unit	Left
L2		Right
H1	H unit	Left
H2		Right

Intermediate fixing spacer

Blank: Without spacer
 6□: Short spacer
 7□: Long spacer

Spacer delivery type

Blank: Unit installed
 N: Spacer only



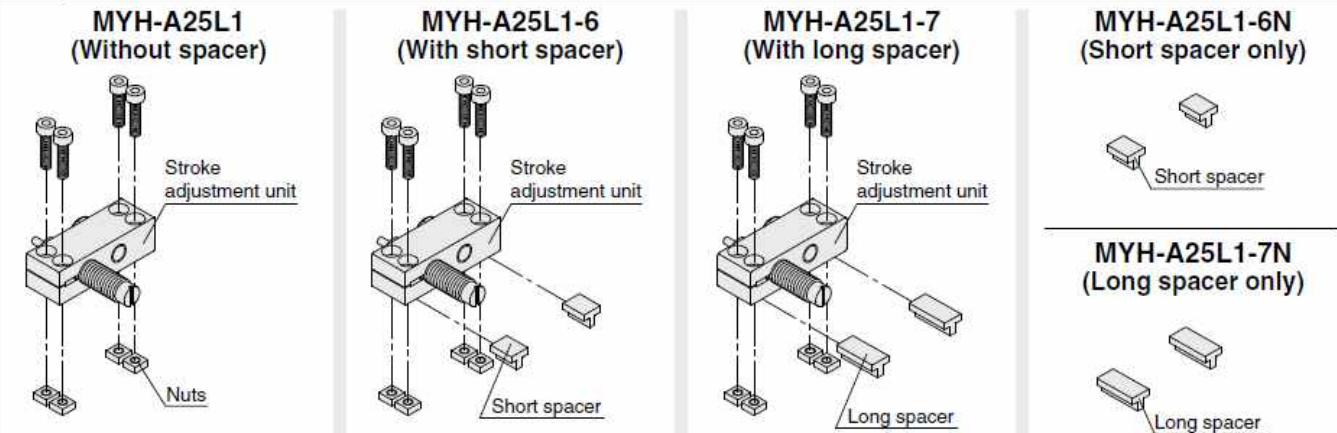
Stroke adjustment range (mm)

Bore size	10		16		20			25			32			40		
	Unit symbol	H	A	L	A	L	H	A	L	H	A	L	H	A	L	H
Without spacer	0~10		0~-5.6		0~-6			0~-11.5			0~-12			0~-16		
With short spacer	-		-5.6~-11.2		-6~-12			-11.5~-23			-11~-24			-16~-32		
With long spacer	-		-11.2~-16.8		-12~-18			-23~-34.5			-24~-36			-32~-48		

Spacer length [mm]

Bore size	16	20	25	32	40
Short spacer	5.6	6	11.5	12	16
Long spacer	11.2	12	23	24	32

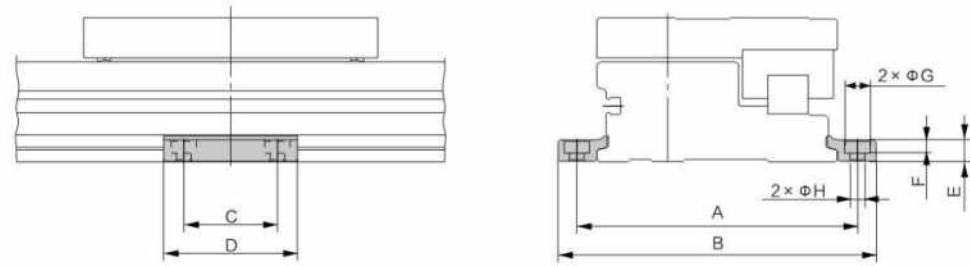
Component Parts



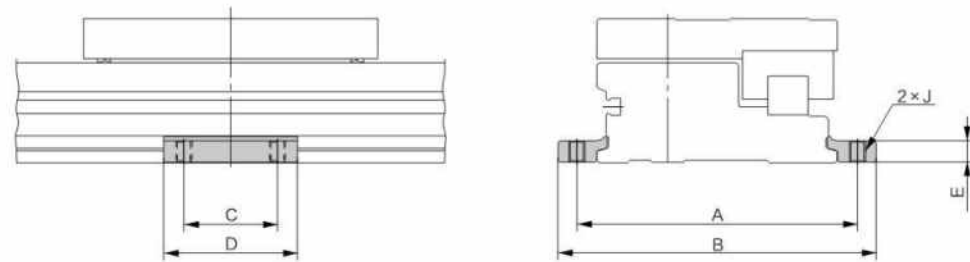
* Nuts are equipped on the cylinder body.

Side support

Side support A MY-S□A



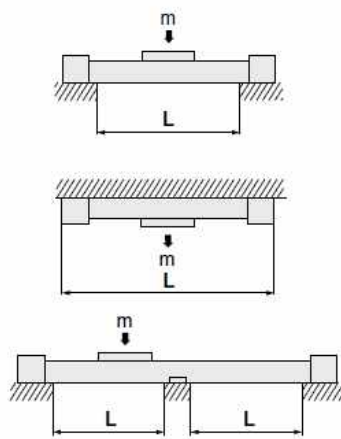
Side support B MY-S□B



Model	Applicable cylinder	A	B	C	D	E	F	G	H	W
MY-S10 ^{A/B}	MY1H10	53	61.6	12	21	3	1.2	6.5	3.4	M4X0.7
MY-S16 ^{A/B}	MY1H16	71	81.6	15	26	4.9	3	6.6	3.4	M4X0.7
MY-S20 ^{A/B}	MY1H20	91	103.6	25	38	6.4	4	8	4.5	M5X0.8
MY-S25 ^{A/B}	MY1H25	105	119	35	50	8	5	9.5	5.5	M6X1
MY-S32 ^{A/B}	MY1H32	130	148	45	64	11.7	6	11	6.6	M8X1.25
MY-S40 ^{A/B}	MY1H40	145	167	55	80	14.8	8.5	14	9	M10X1.5

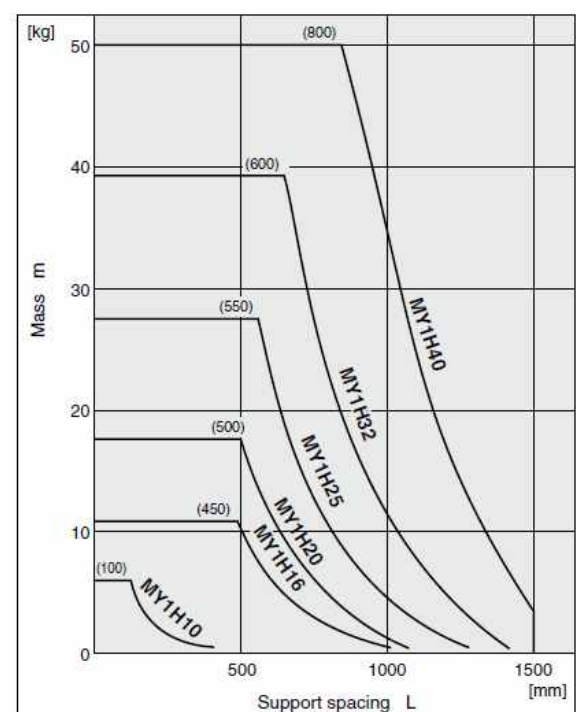
Guide for Side Support Application

For long stroke operation, the cylinder tube may be deflected depending on its own weight and the load. In such a case, use a side support in the middle section. The spacing (L) of the support must be no more than the values shown in the graph on the right.



Caution

- If the cylinder mounting surfaces are not measured accurately, using a side support may cause poor operation. Therefore, be sure to level the cylinder tube when mounting it. Also, for long stroke operation involving vibration and impact, the use of a side support is recommended even if the spacing value is within the allowable limits shown in the graph.
- Support brackets are not for mounting; use them solely for providing support.

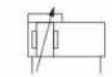


MY2H(Single axis)

MY2HT(Double axis)



Specifications			
Bore size(mm)	16	25	40
Fluid	Air		
Acting type	Double acting		
Operating pressure[MPa]	0.1~0.8		
Proof pressure[MPa]	1.2		
Temperature °C	-5~60		
Cushion type	Air cushion, Shock absorber		
Lubrication	Not required (Non-lube)		
Stroke tolerance	+1.8 0		
Port size	M5 x 0.8	Rc1/8	Rc1/4

Stroke			Symbol
Bore size	Standard Stroke	Max.std stroke	
16	50, 100, 150	1000	 Air cushion
25	200, 250, 300	1500	
40	350, 400, 450		

Ordering Code

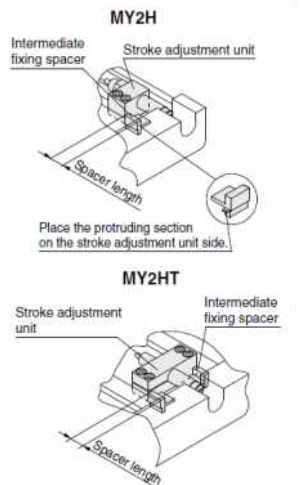
MY2 H **16** **□** **G** - **300** **L** - **M9BW** **□** **□**

Guide type: H: Linear Guide 1 axis, HT: Linear Guide 2 axes
 Thread type: Blank: M Thread, Rc, TN: NPT, TF: G
 Stroke: 16: 16mm, 25: 25mm, 40: 40mm
 Tube type: Blank: Standard type, G: Centralized Piping Type
 Adjustable stroke: -X168; Specification of liner thread
 Sensor switch: Blank: No sensor switch
 Number of sensor switch: Blank: Two pieces, S: One piece, N: N pieces
 Made to Order: -XB10: Middle stroke type (Special cylinder body for use), -XB11: Long stroke type, -XB20: Stroke adjustable unit with adjustable bolt, -XB22: With RJ soft type Shock Absorber

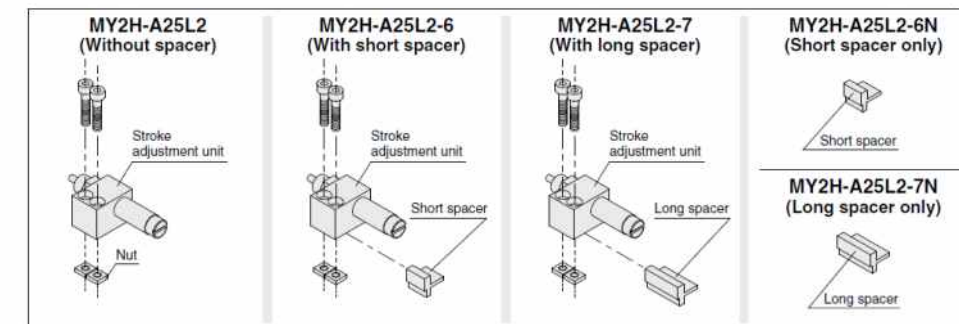
Option

MY 2H - **A** **25** **L2** - **6N**

Guide type: 2H: MY2H16, 2H: MY2H25, 2H: MY2H40, 2HT: MY2HT16, 2HT: MY2HT25, 2HT: MY2HT40
 Stroke adjustment unit
 Bore size: 16: 16mm, 25: 25mm, 40: 40mm
 Unit no.: L1, L2, H1, H2
 Intermediate fixing spacer: Blank: Without spacer, 6□: Short spacer, 7□: Long spacer
 Spacer delivery type: Blank: Unit installed, N: Spacer only



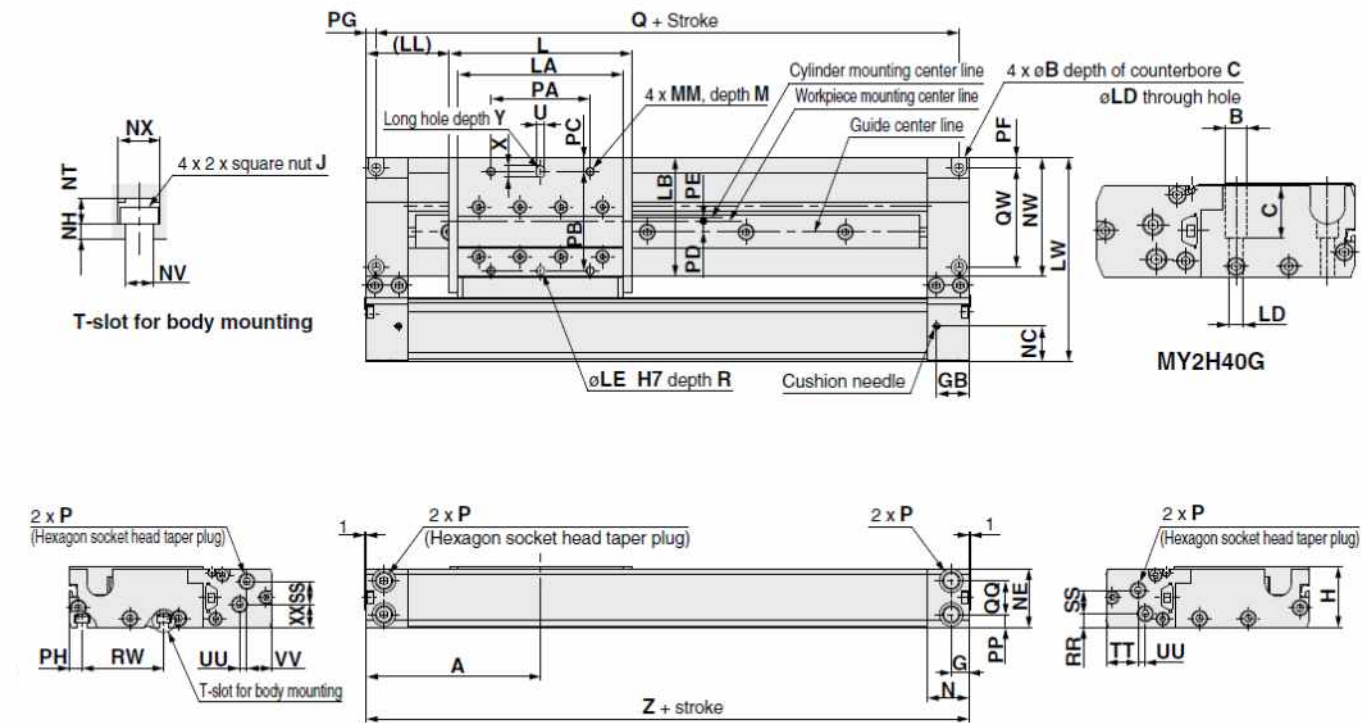
Component Parts



* Nuts are equipped on the cylinder body.

Dimensions (mm)

MY2H Bore size G - Stroke



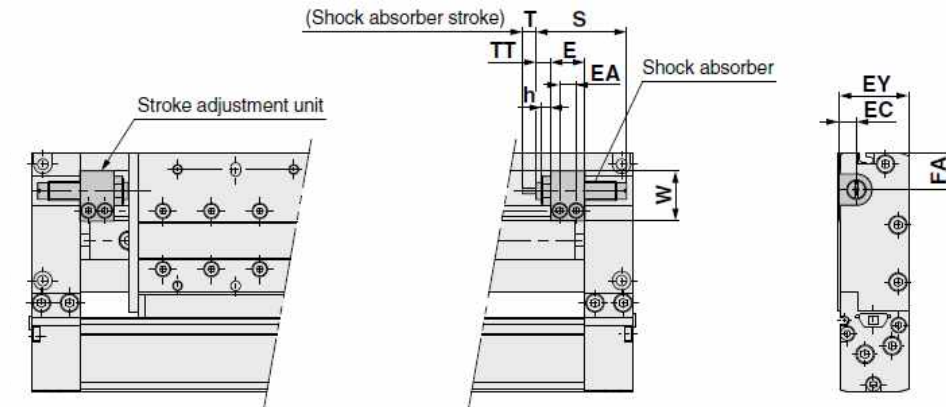
Model	A	B	C	G	GB	H	L	J	LA	LB	LD	LE	(LL)	LW	M	MM	N	NC	NE	NH	NT	NV	NW	NX	P
MY2H16G	80	6.5	3.3	8.5	17	28	80	M3X0.5	70	50.4	3.4	4	40	83	7	M4X0.7	20	14	27	2	3.5	3.4	48.2	5.8	M5X0.8
MY2H25G	105	9.5	5.4	10.7	19.5	37	110.8	M5X0.8	100	71.7	5.5	5	49.6	123	9	M5X0.8	25	21.3	35.5	3	5.3	5.5	71.8	8.5	1/8
MY2H40G	165	14	32.5	15.5	31.5	58	180	M6X1	158	80.3	9	6	75	161	13	M6X1	40	32.4	56.5	4	6.5	6.6	82.1	10.5	1/4

Model	PA	PB	PC	PD	PE	PF	PG	PH	PP	Q	QQ	QW	R	RR	RW	SS	TT	U	UU	VV	X	XX	Y	P
MY2H16G	40	40	7.2	2.8	3.7	3.5	4	5.1	5.3	152	16.4	40	5	5.3	40	9.7	12.5	4	3	10.5	6	12	5	160
MY2H25G	60	60	8.2	6.6	2.7	5.5	6	7.5	8	195	20.4	60	5	8.5	50	14	19.3	5	4.4	15.3	7.5	14	5	210
MY2H40G	100	70	5.5	8.5	5	17	9	9.5	16	312	25.5	57	8	11	53.5	21.5	35.4	6	2	29	9	23	8	330

"P" indicates cylinder supply ports. The plug for "P" MY2H16G is a hexagon socket head plug.

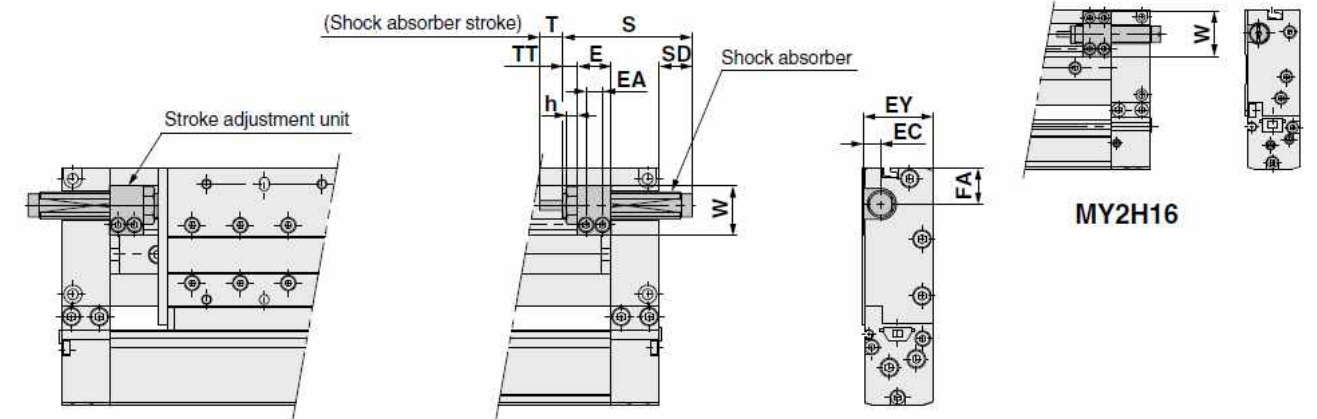
Stroke adjustment unit

Low load shock absorber
MY2H Bore size G - Stroke L



Model	E	EA	EC	EY	FA	h	S	T	TT	W	Shock absorber model
MY2H16	14.4	7	6	27	12.5	4	40.8	6	5.4(MAX.11.2)	16.5	RB0806
MY2H25	17.5	8.5	9	36	19.3	5	46.7	7	5(MAX.18.6)	25.8	RB1007
MY2H40	25	13	13	57	17	6	67.3	12	9(MAX.26)	38	RB1412

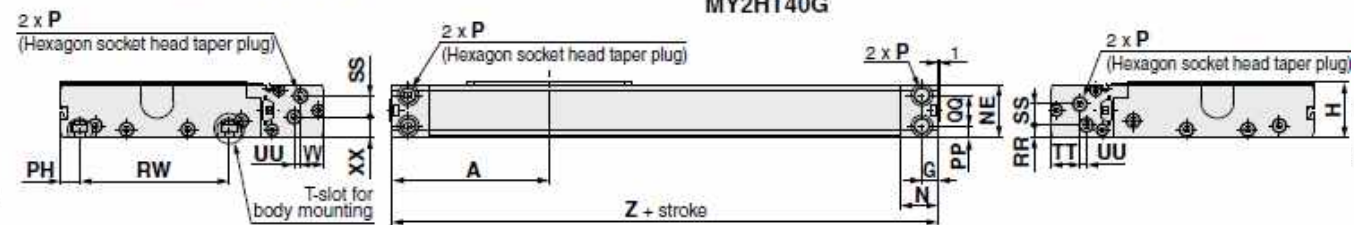
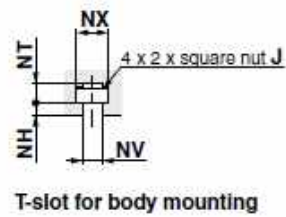
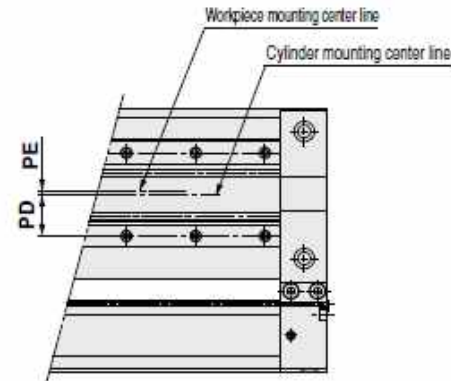
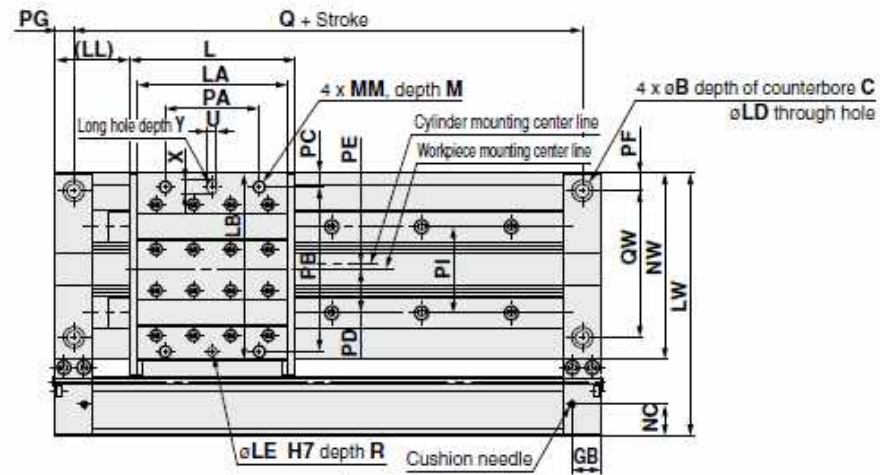
High load shock absorber
MY2H Bore size G - Stroke H



Model	E	EA	EC	EY	FA	h	S	SD	T	TT	W	Shock absorber model
MY2H16	14.4	7	6	27	12.5	-	46.7	6.7	7	5.6(MAX.11.2)	23.5	RB1007
MY2H25	17.5	8.5	9	36	19.3	6	67.3	17.7	12	7.1(MAX.18.6)	25.8	RB1412
MY2H40	25	13	13	57	17	6	73.2	-	15	10(MAX.26)	38	RB2015

Dimensions (mm)

MY2HT Bore size G - Stroke



Model	A	B	C	G	GB	H	L	J	LA	LB	LD	LE	(LL)	LW	M	MM	N	NC	NE	NH	NT
MY2HT16G	80	9.5	5.4	8.5	17	28	80	80	70	87.4	5.5	5	40	120	9	80	20	14	27	3	4.7
MY2HT25G	105	14	8.6	10.7	19.5	37	110.8	105	100	127.7	9	6	49.6	176	12	105	25	21.3	35.5	4	6.5
MY2HT40G	165	17.5	10.8	15.5	31.5	58	180	165	158	148.3	11	8	75	229	16	165	40	32.4	56.5	5	9

Model	NV	NW	NX	P	PA	PB	PC	PD	PE	PF	PG	PH	PI	PP	Q	QQ	QW	R	RR	RW	SS	TT
MY2HT16G	4.5	85.2	7.3	M5X0.8	44	80	4	23	1	10	10	10.5	5.3	5.3	140	16.4	66	5	5.3	69	9.7	12.5
MY2HT25G	6.6	124.8	10.5	1/8	63	110	9.4	29.2	3.4	12	12.5	13	57.6	8	185	20.4	98	8	8.5	100	14	19.3
MY2HT40G	9	150.1	14	1/4	113	132	8.5	35.5	0.5	20	20	18.5	72	16	290	25.5	110	12	11	116	21.5	35.4

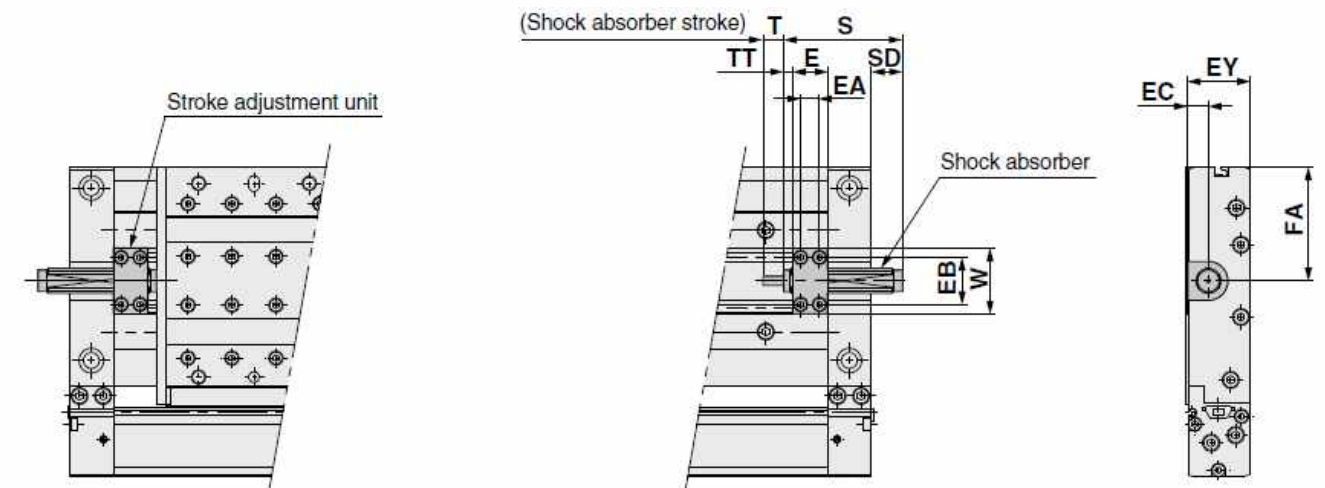
Model	U	UU	VV	X	XX	Y	Z
MY2HT16G	5	3	10.5	7	12	5	160
MY2HT25G	6	4.4	15.3	9	14	5	210
MY2HT40G	8	2	29	12	23	8	330

"P" indicates cylinder supply ports. The plug for "P" MY2HT16G is a hexagon socket head plug.

Stroke adjustment unit

Low load shock absorber

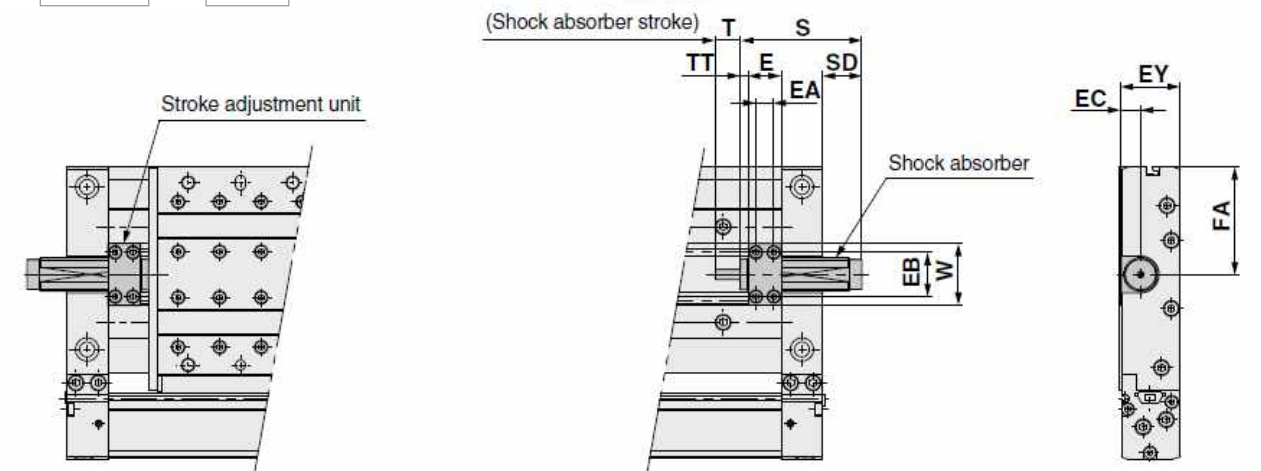
MY2HT Bore size G - Stroke L



Model	E	EA	EB	EC	EY	FA	S	SD	T	TT	W	Shock absorber model
MY2HT16	14.4	7	21	8	27	46.5	46.7	6.7	7	5.6(MAX.11.2)	28.6	RB1007
MY2HT25	19.7	10.7	26.6	11.2	36	64.8	67.3	17.7	12	4.9(MAX.16.4)	37.2	RB1412
MY2HT40	29.1	15.1	37	17.2	57	74.5	73.2	-	15	5.9(MAX.21.9)	51.6	RB2015

High load shock absorber

MY2HT Bore size G - Stroke H



Model	E	EA	EB	EC	EY	FA	S	SD	T	TT	W	Shock absorber model
MY2HT16	14.4	7	21	8	27	46.5	67.3	27.3	12	5.6(MAX.11.2)	28.6	RB1412
MY2HT25	19.7	10.7	26.6	11.2	36	64.8	73.2	23.6	15	4.9(MAX.16.4)	37.2	RB2015
MY2HT40	29.1	15.1	37	17.2	57	74.5	99	24	25	5.9(MAX.21.9)	51.6	RB2725

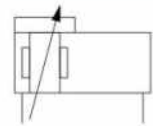
BITEBI® Mechanically Jointed Rodless Cylinder MY1M Series/Slide Bearing Guide Type



Specifications							
Bore size(mm)	16	20	25	32	40	50	63
Fluid	Air						
Acting type	Double acting						
Operating pressure[MPa]	0.12~0.8		0.15~0.8				
Proof pressure[MPa]	1.2						
Temperature °C	-5~60						
Cushion type	Air cushion						
Lubrication	Non-lube						
Stroke tolerance	1000 or less $+1.8$ 1001 to 3000 $+2.8$		2700 or less $+1.8$		2701 to 5000 $+2.8$		
Piping port size	Front/Side port	M5 x 0.8	1/8"	1/4"	3/8"		
	Bottom port	Φ4	Φ6	Φ8	Φ10		

Stroke			
Bore size	Standard Stroke	Longer Stroke	Max.std stroke
16		Over Standard Stroke 2001~3000mm(1mm step)	3000
20	100,200,300,400	Over Standard Stroke 2001~5000mm(1mm step)	5000
25	500,600,700,800		
32	900,1000,1200,1400		
40	1600,1800,2000		
50			
63			

Symbol



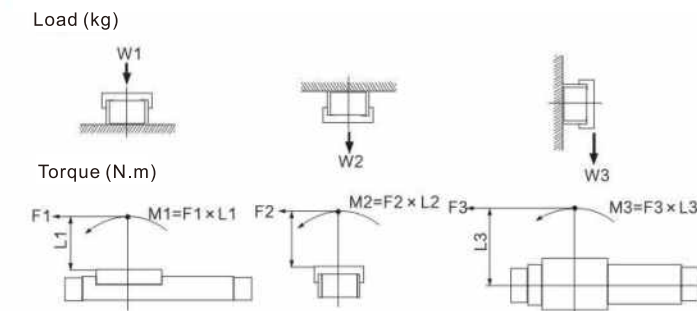
Ordering Code

MY1 **M** **20** **G** - **300** - **M9BW**

Slide bearing guide type Thread type: Blank: M Thread Rc Stroke: 300 Number of sensor switch: Blank: Two pieces S: One piece N: N pieces Sensor switch: Blank: No sensor switch Made to Order: -XB22: With RJ soft type Shock Absorber -XC67: Dust sealing strip NBR rubber lining type -X168: Threaded bushing type

Bore size: TN: NPT TF: G Tube type: Blank: Standard type G: Centralized Piping Type Adjustable stroke

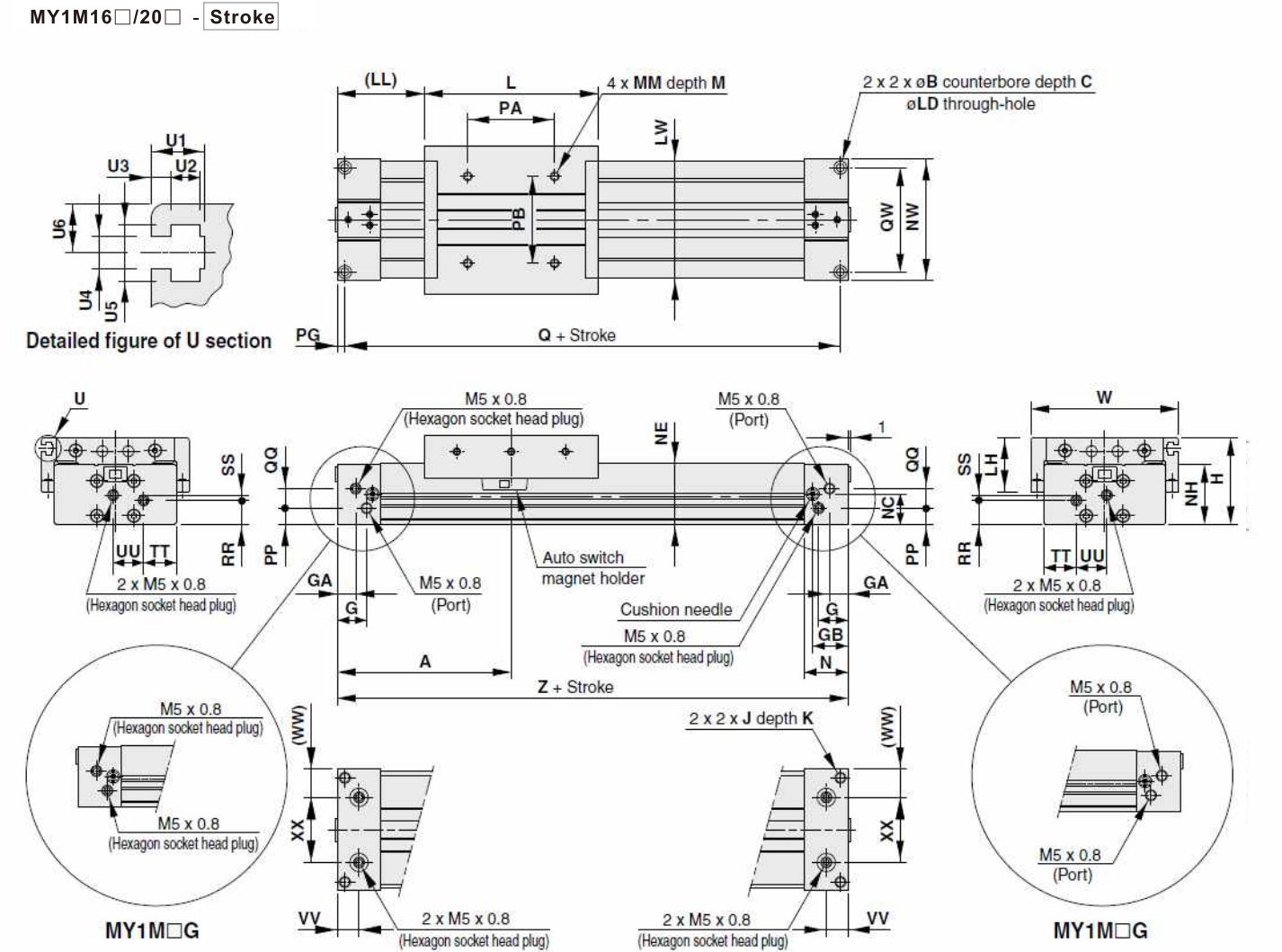
Torque and Load



Type	Bore size (mm)	Maximum allowable torque(N.m)			Maximum load weight(N)		
		M1	M2	M3	W1	W2	W3
MY1M	16	6.0	3.0	1.0	180.0	70.00	21.00
	20	10.0	5.2	1.7	260.0	104.00	30.00
	25	15.0	9.0	2.4	380.0	150.00	45.00
	32	30.0	15.0	5.0	570.0	230.00	66.00
	40	59.0	24.0	8.0	840.0	330.00	100.00
	50	115.0	38.0	15.0	1200.0	450.00	140.00
	63	140.0	60.0	19.0	1800.0	720.00	210.00

BITEBI® Mechanically Jointed Rodless Cylinder MY1M Series/Slide Bearing Guide Type

Dimensions (mm)

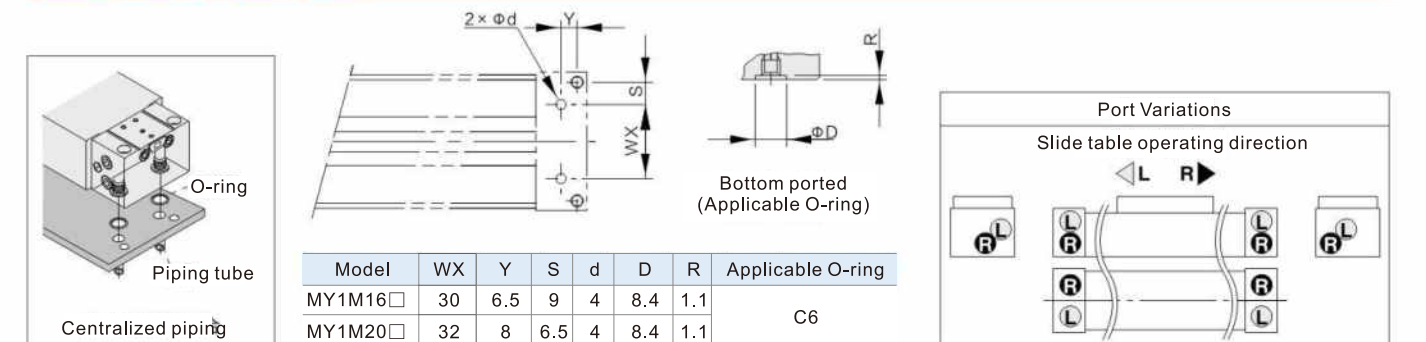


Model	A	B	C	G	GA	GB	H	J	K	L	LD	LH	LL	LW	M	MM	N	NC	NE	NH	NW	PA
MY1M16□	80	6	3.5	13.5	8.5	16.2	40	M5X0.8	10	80	3.6	22.5	40	54	6	M4X0.7	20	14	28	27.7	56	40
MY1M20□	100	7.5	4.5	12.5	12.5	20	46	M6X1	12	100	4.8	23	50	58	7.5	M5X0.8	25	17	34	33.7	60	50

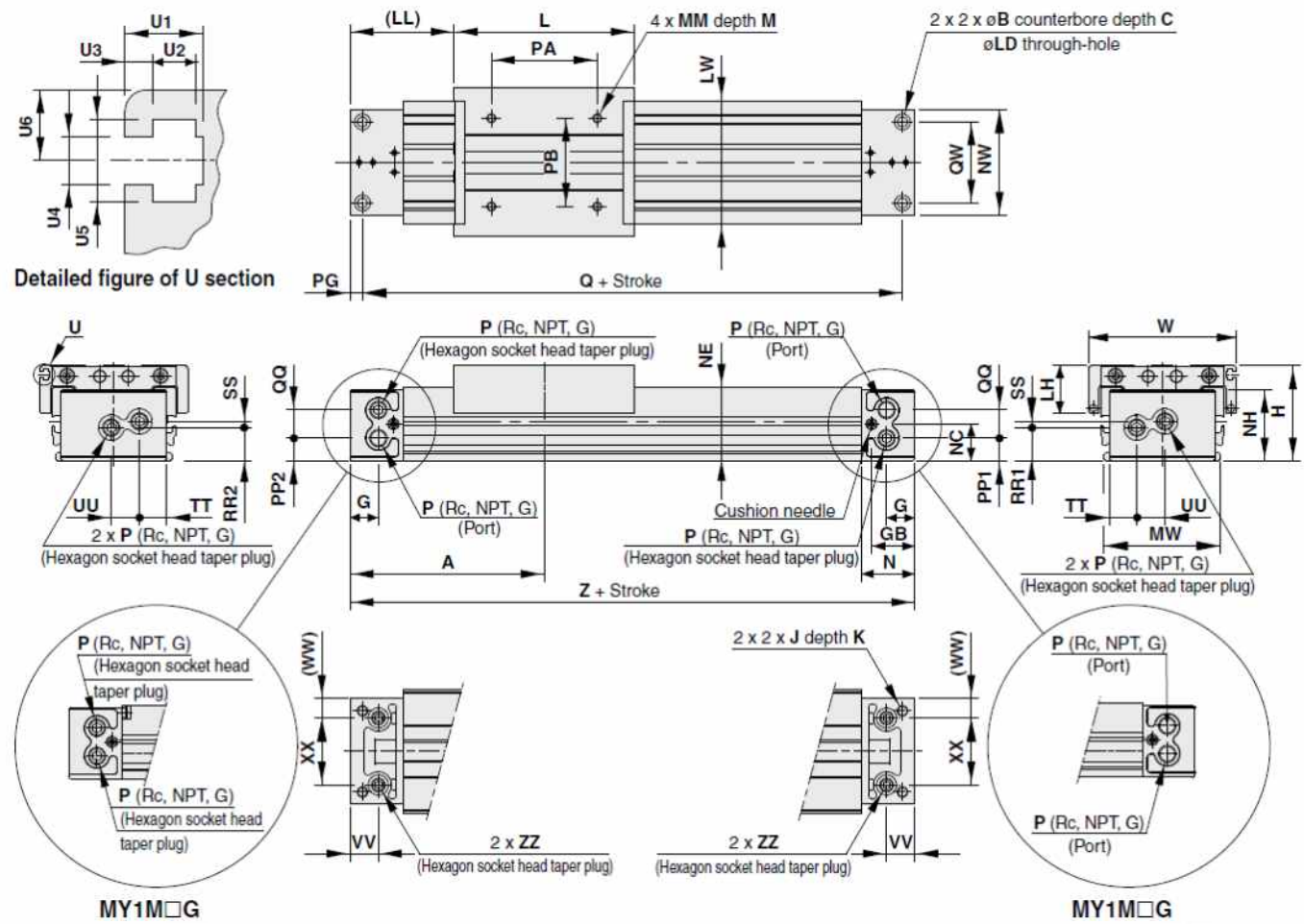
Model	PA	PG	PP	Q	QQ	QW	RR	SS	TT	UU	VV	W	WW	XX	Z
MY1M16□	40	3.5	7.5	143	9	48	11	2.5	15	14	10	68	13	30	160
MY1M20□	40	4.5	11.5	191	10	45	14.5	5	18	12	12.5	72	14	32	200

Detailed Dimensions of U Section						
Model	U1	U2	U3	U4	U5	U6
MY1M16□	5.5	3	2	3.4	5.8	5
MY1M20□	5.5	3	2	3.4	5.8	5.5

Centralized Piping on the Bottom



MY1M25□/32□/40□ - Stroke



Model	A	B	C	G	GB	H	J	K	L	LD	LH	LL	LW	M	MM	MW	N	NC	NE	NH	NW	P	PA
MY1M25□	110	9	5.5	17	24.5	54	M6X1	9.5	102	5.6	27	59	70	10	M5X0.8	66	30	21	41.8	40.5	60	1/8	60
MY1M32□	140	11	6.5	19	60	68	M8X1.25	16	132	6.8	35	74	88	13	M6X1	80	37	26	52.3	50	74	1/8	80
MY1M40□	170	14	8.5	23	36.5	84	M10X1.5	15	162	8.6	38	89	104	13	M6X1	96	45	32	65.3	63.5	94	1/4	100

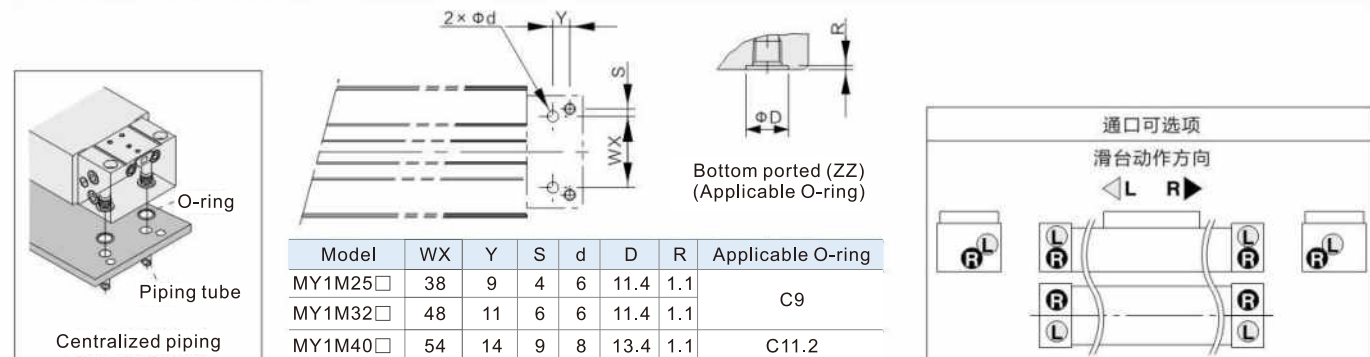
"P" indicates cylinder supply ports.

Model	PB	PG	PP1	PP2	Q	QQ	QW	RR1	RR2	SS	TT	UU	VV	W	WW	XX	Z	ZZ
MY1M25□	50	7	12.7	12.7	206	15.5	46	18.9	17.9	4.1	15.5	16	16	84	11	38	220	Rc1/16
MY1M32□	50	8	15.5	18.5	264	16	60	22	24	4	21	16	19	102	13	48	280	Rc1/16
MY1M40□	80	9	17.5	20	322	26	72	25.5	29	9	26	21	23	118	20	54	340	Rc1/8

Detailed Dimensions of U Section

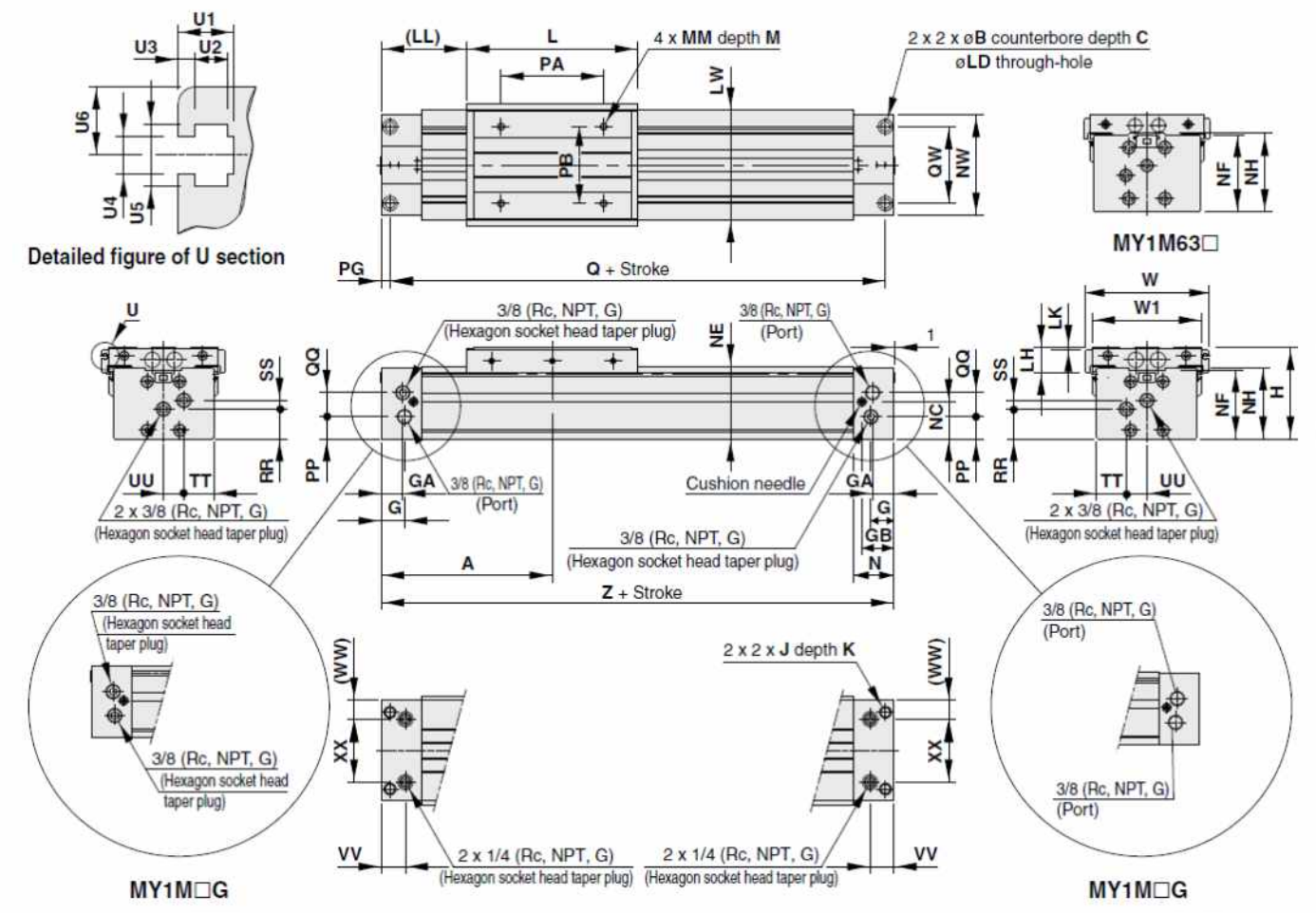
Model	U1	U2	U3	U4	U5	U6
MY1M25□	5.5	3	2	3.4	5.8	5
MY1M32□	5.5	3	2	3.4	5.8	7
MY1M32□	6.5	3.8	2	4.5	7.3	8

Centralized Piping on the Bottom



Model	WX	Y	S	d	D	R	Applicable O-ring
MY1M25□	38	9	4	6	11.4	1.1	C9
MY1M32□	48	11	6	6	11.4	1.1	C9
MY1M40□	54	14	9	8	13.4	1.1	C11.2

MY1M50□/63□ - Stroke



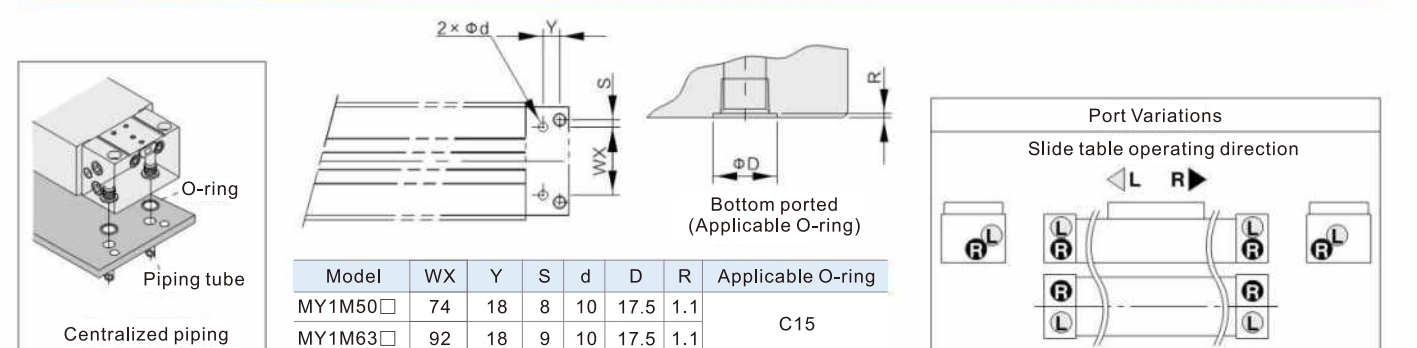
Model	A	B	C	G	GA	GB	H	J	K	L	LD	LH	LK	LL	LW	M	MM	N	NC	NE	NF	NH	NW	PA
MY1M50□	200	17	10.5	27	25	37.5	107	200	28	200	11	29	2	100	128	15	200	47	43.5	84.5	81	83.5	118	120
MY1M63□	230	19	12.5	29.5	27.5	39.5	130	230	32	230	13.5	32.5	5.5	115	152	16	230	50	56	104	103	105	142	140

Model	PB	PG	PP	Q	QQ	QW	RR	SS	TT	UU	VV	W	W1	WW	XX	Z
MY1M50□	90	10	26	380	28	90	35	10	35	24	28	144	128	22	74	400
MY1M63□	110	12	42	436	30	110	49	13	43	28	30	168	152	25	92	460

Detailed Dimensions of U Section

Model	U1	U2	U3	U4	U5	U6
MY1M50□	6.5	3.8	2	4.5	7.3	8
MY1M63□	8.5	5	2.5	5.5	8.4	8

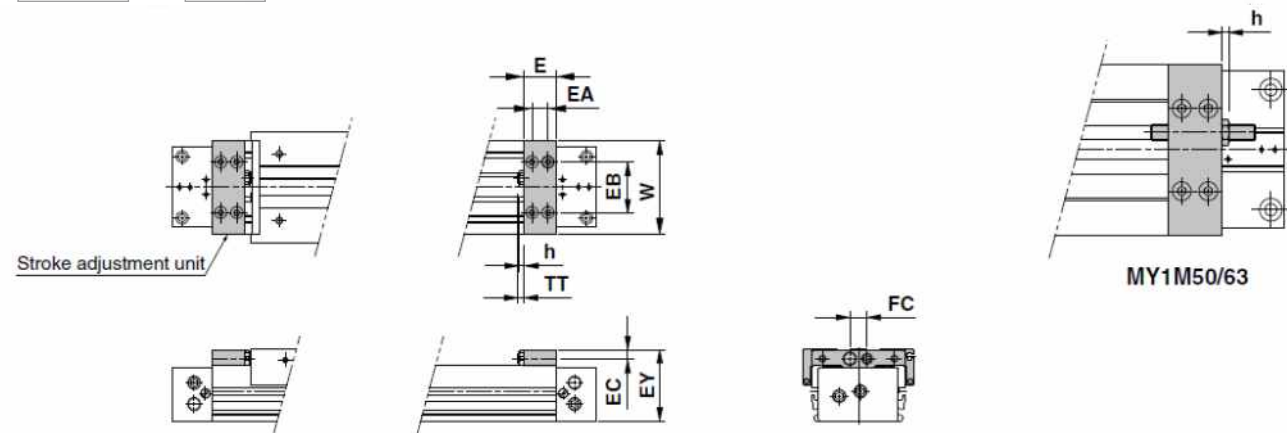
Centralized Piping on the Bottom



Model	WX	Y	S	d	D	R	Applicable O-ring
MY1M50□	74	18	8	10	17.5	1.1	C15
MY1M63□	92	18	9	10	17.5	1.1	C15

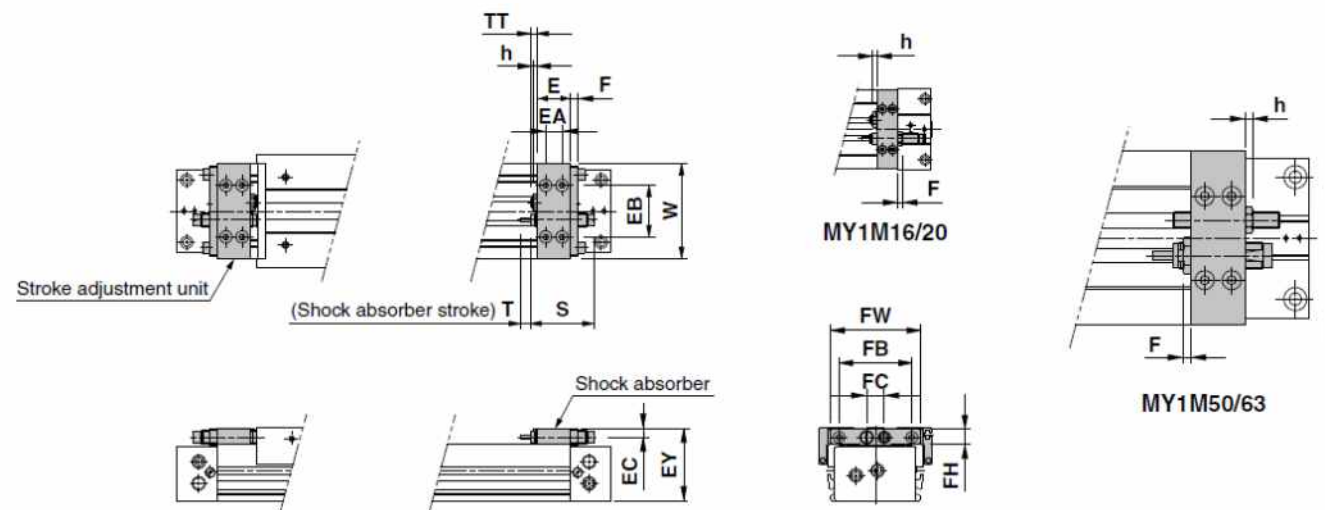
Stroke Adjustment Units

With adjustment bolt
MY1M Bore size □ - Stroke A



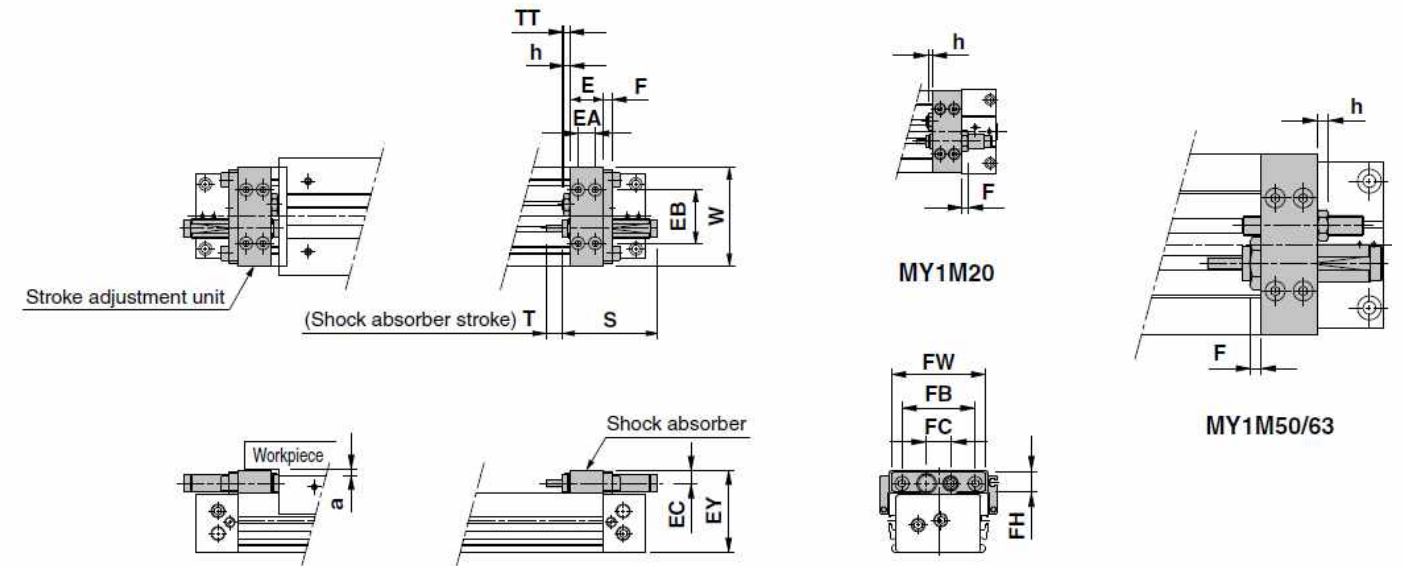
Model	E	EA	EB	EC	EY	FC	h	TT	W
MY1M16□	14.6	7	30	5.8	39.5	14	3.6	5.4(MAX11)	58
MY1M20□	20	10	32	5.8	45.5	14	3.6	5(MAX11)	58
MY1M25□	24	12	38	6.5	53.5	13	3.5	5(MAX16.5)	70
MY1M32□	29	14	40	8.5	67	17	4.5	8(MAX20)	88
MY1M40□	35	17	57	10	83	17	4.5	9(MAX25)	104
MY1M50□	40	20	66	14	106	26	5.5	13(MAX33)	128
MY1M63□	52	26	77	14	129	31	5.5	13(MAX38)	152

With low load shock absorber + Adjustment bolt
MY1M Bore size □ - Stroke L



Model	E	EA	EB	EC	EY	F	FB	FC	FH	FW	h	S	T	TT	W	Shock absorber model
MY1M16□	14.6	7	30	5.8	39.5	4	-	14	-	-	3.6	40.8	6	5.4(MAX11)	58	RB0806
MY1M20□	20	10	32	5.8	45.5	4	-	14	-	-	3.6	40.8	6	5(MAX11)	58	RB0806
MY1M25□	24	12	38	6.5	53.5	6	54	13	13	66	3.5	46.7	7	5(MAX16.5)	70	RB1007
MY1M32□	29	14	40	8.5	67	6	67	17	16	80	4.5	67.3	12	8(MAX20)	88	RB1412
MY1M40□	35	17	57	10	83	6	78	17	17.5	91	4.5	67.3	12	9(MAX25)	104	RB1412
MY1M50□	40	20	66	14	106	6	-	26	-	*	5.5	73.2	15	13(MAX33)	128	RB2015
MY1M63□	52	26	77	14	129	6	-	31	-	*	5.5	73.2	15	13(MAX38)	152	RB2015

With high load shock absorber + Adjustment bolt
MY1M Bore size □ - Stroke H

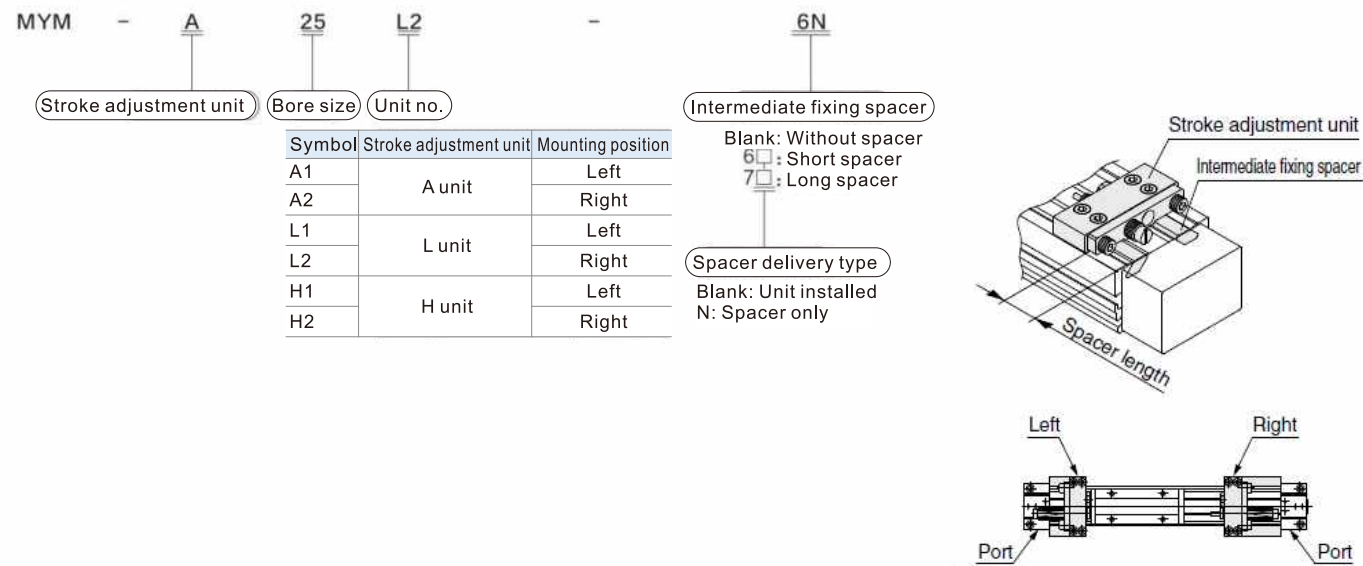


*Since the EY dimension of H unit is longer than the table top height (H dimension), when mounting a workpiece that exceeds the overall length (L dimension) of the slide table, allow a clearance of dimension "a" or longer on the workpiece side.

Model	E	EA	EB	EC	EY	F	FB	FC	FH	FW	h	S	T	TT	W	Shock absorber model	a
MY1M20□	20	10	32	7.7	50	5	-	14	-	-	3.5	46.7	7	5(MAX11)	57	RB1007	5
MY1M25□	24	12	38	9	57.5	6	52	17	16	66	4.5	67.3	12	5(MAX16.5)	70	RB1412	4.5
MY1M32□	29	14	40	11.5	73	8	67	22	22	82	5.5	73.2	15	8(MAX20)	80	RB2015	6
MY1M40□	35	17	57	12	87	8	78	22	22	95	5.5	73.2	15	9(MAX25)	104	RB2015	4
MY1M50□	40	20	66	18.5	115	8	-	30	-	*	11	99	25	13(MAX33)	128	RB2725	9
MY1M63□	52	26	77	19	138.5	8	-	35	-	*	11	99	25	13(MAX38)	152	RB2725	9.5

Accessory Brackets (Option)

Stroke Adjustment Units



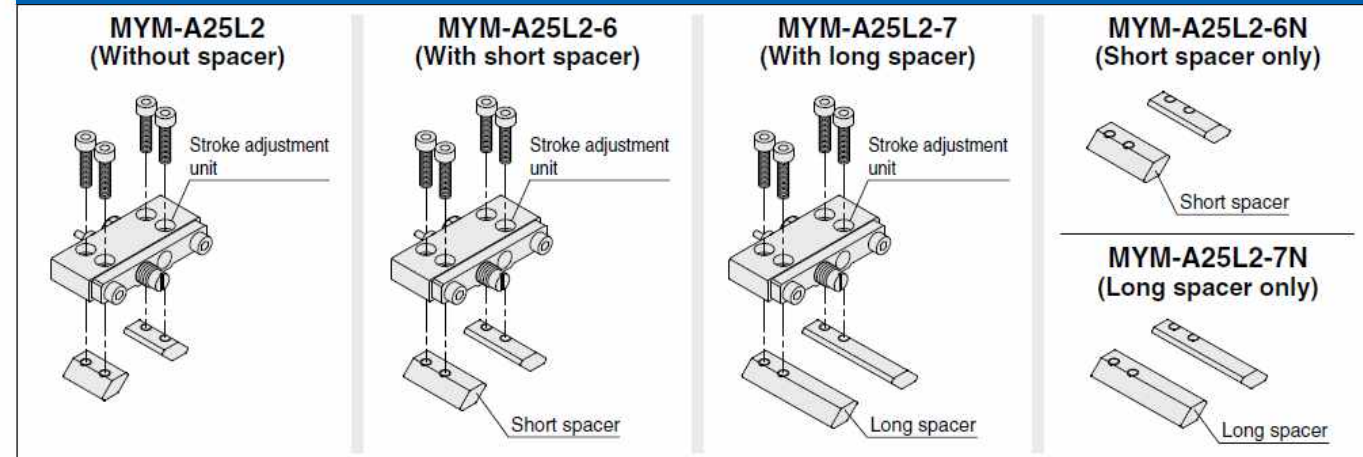
Stroke adjustment range (mm)

Bore size	16			20			25			32			40			50			63			
	Unit symbol	A	L	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H	
Without spacer		0~-5.6		0~-6		0~-11.5		0~-12		0~-16		0~-20		0~-25								
With short spacer		-5.6~-11.2		-6~-12		-11.5~-23		-12~-24		-16~-32		-20~-40		-25~-50								
With long spacer		-11.2~-16.8		-12~-18		-23~-34.5		-24~-36		-32~-48		-40~-60		-50~-75								

Spacer length [mm]

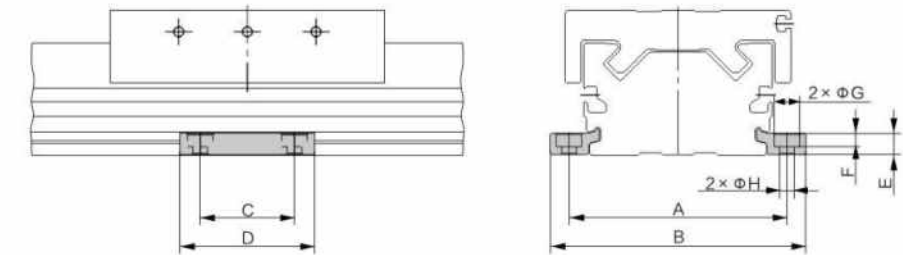
Bore size	16	20	25	32	40	50	63
Short spacer	5.6	6	11.5	12	16	20	25
Long spacer	11.2	12	23	24	32	40	50

Component Parts

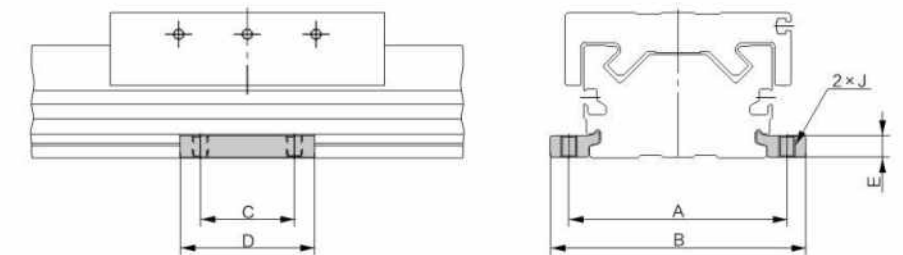


Side Supports

Side support A MY-S□A



Side support B MY-S□B

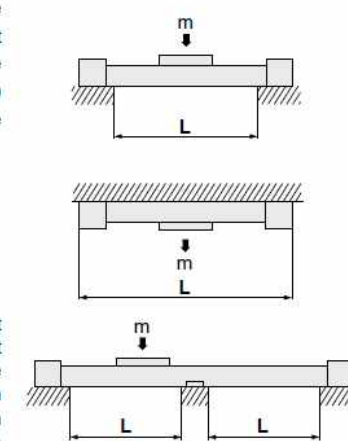


Model	Applicable cylinder	A	B	C	D	E	F	G	H	W
MY-S16 ^{A/B}	MY1M16	61	71.6	15	26	4.9	3	6.5	3.4	M4X0.7
MY-S20 ^{A/B}	MY1M20	67	79.6	25	38	6.4	4	8	4.5	M5X0.8
MY-S25 ^{A/B}	MY1M25	81	95	35	50	8	5	9.5	5.5	M6X1
MY-S32 ^{A/B}	MY1M32	100	118	45	64	11.7	6	11	6.6	M8X1.25
MY-S40 ^{A/B}	MY1M40	120	142	55	80	14.8	8.5	14	9	M10X1.5
MY-S50 ^{A/B}	MY1M50	142	164	55	80	14.8	8.5	14	9	M10X1.5
MY-S63 ^{A/B}	MY1M63	172	202	70	100	18.3	10.5	17.5	11.5	M12X1.75

* Side supports consist of a set of right and left brackets.

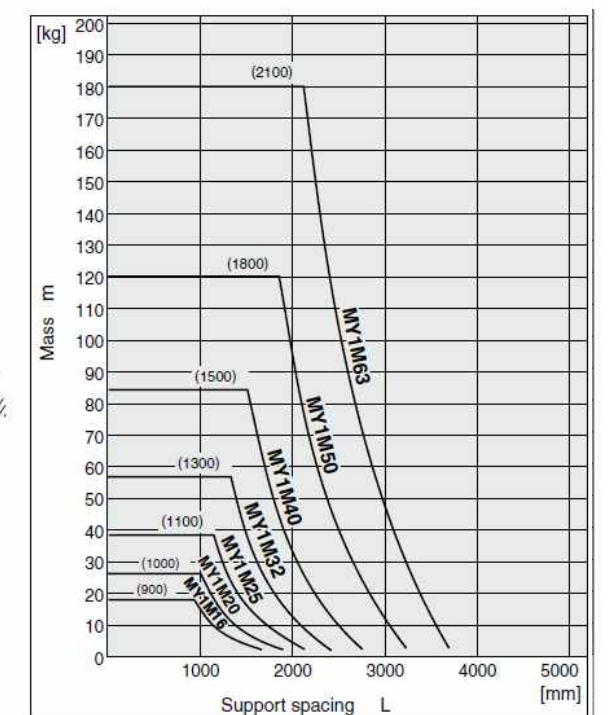
Guide for Side Support Application

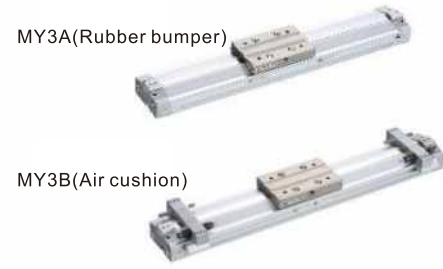
For long stroke operation, the cylinder tube may be deflected depending on its own weight and the load. In such a case, use a side support in the middle section. The spacing (L) of the support must be no more than the values shown in the graph on the right.



Caution

- If the cylinder mounting surfaces are not measured accurately, using a side support may cause poor operation. Therefore, be sure to level the cylinder tube when mounting it. Also, for long stroke operation involving vibration and impact, the use of a side support is recommended even if the spacing value is within the allowable limits shown in the graph.
- Support brackets are not for mounting; use them solely for providing support.

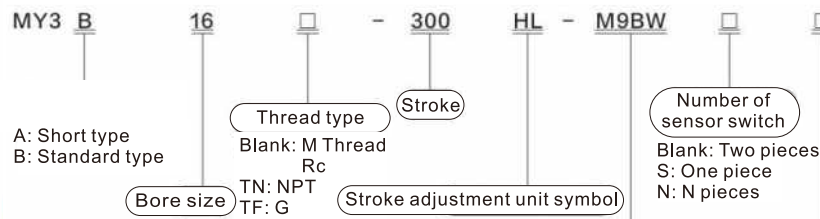




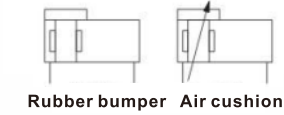
Specifications				
Bore size(mm)	16, 20	25, 32	40	50, 63
Fluid	Air			
Acting type	Double acting			
Operating pressure[MPa]	0.15~0.8			
Proof pressure[MPa]	1.2			
Temperature °C	-5~60			
Cushion type	Rubber bumper(MY3A)/ Air cushion(MY3B)			
Lubrication	Non-lube			
Stroke tolerance	0~1000 ^{+1.8} ₀		1001~ ^{+2.8} ₀	
Piping port size	M5 x 0.8	1/8"	1/4"	3/8"

Note) The tolerance of the MY3A is a value with no pressurization. When a rubber bumper is used, the stroke of the MY3A varies according to the operating pressure. To find the stroke length tolerance at each operating pressure, double the additional stroke due to pressure on each side.

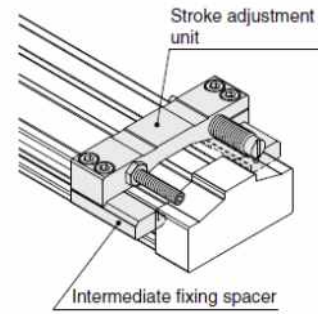
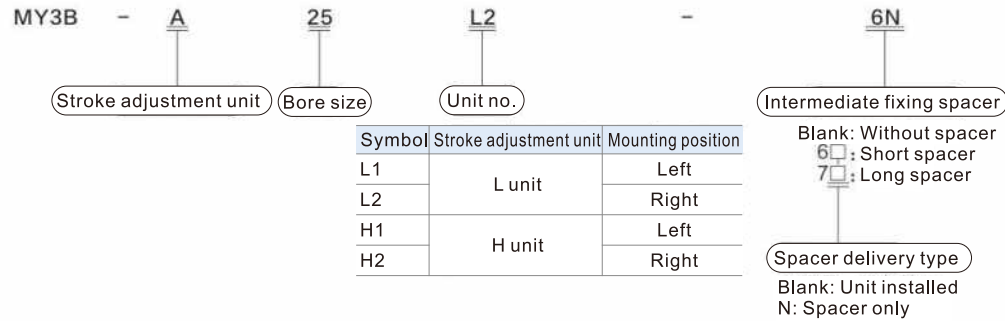
Ordering Code



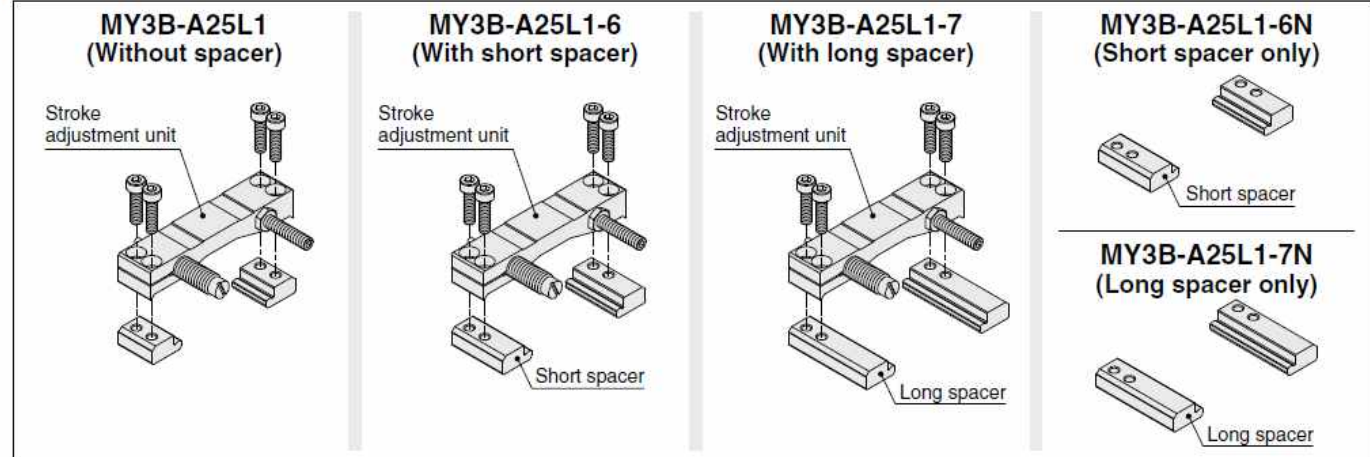
Symbol



Option

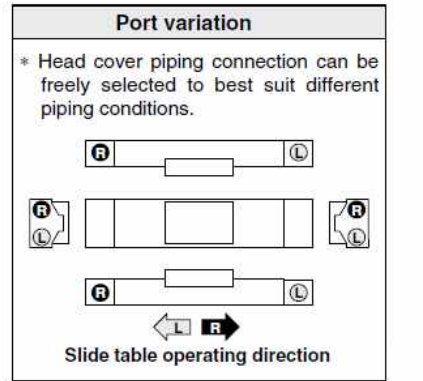
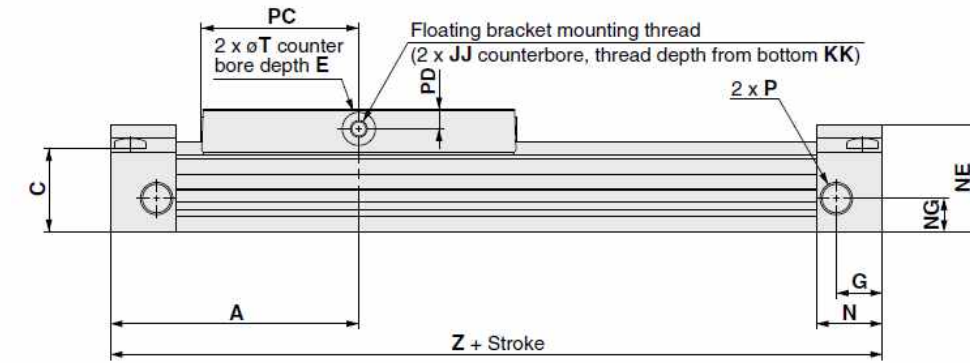
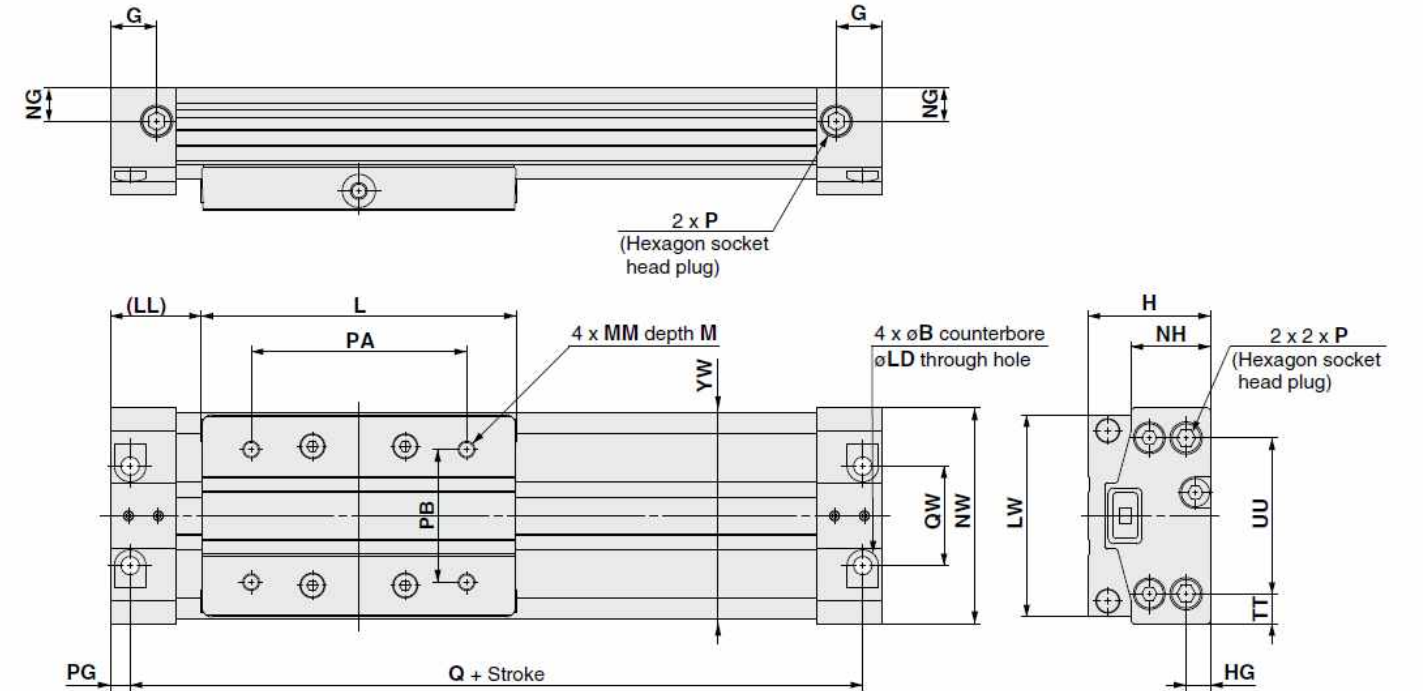


Component Parts



Dimensions (mm)

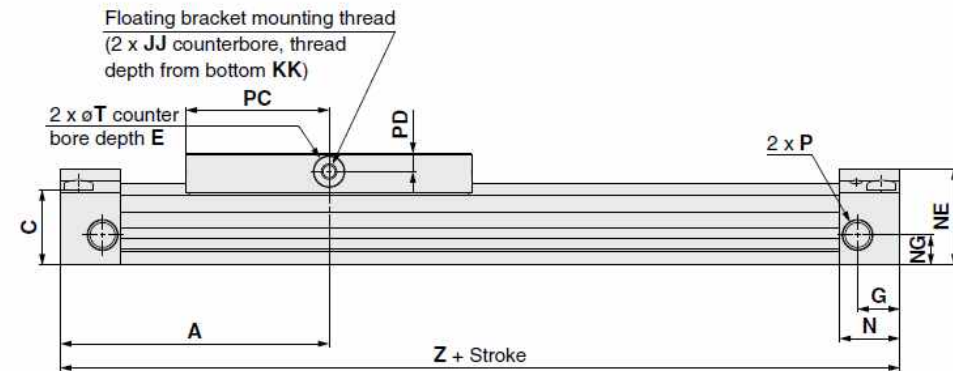
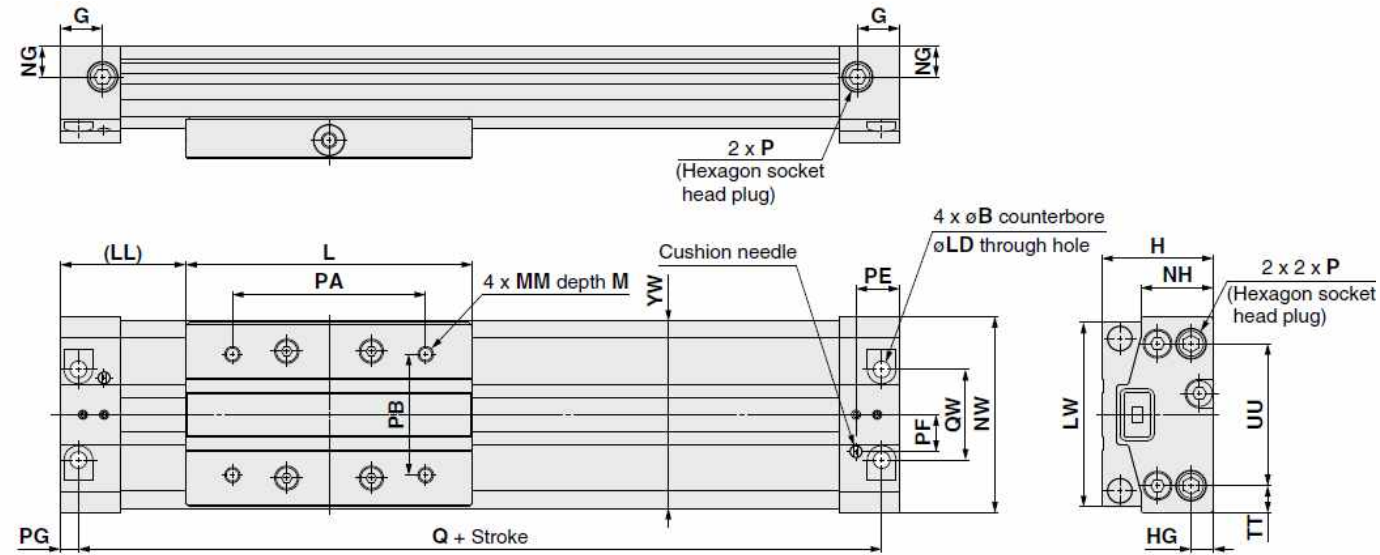
MY3A Bore size - Stroke



Model	A	B	C	E	G	H	HG	JJ	KK	L	LD	LL	LW	M	MM	N
MY3A16	55	6	18	2	9.5	27	5	M4X0.7	5	65	3.5	22.5	41	6	M4X0.7	13.5
MY3A20	64	7.5	22	2	9.5	32	6.5	M4X0.7	8.5	80	4.5	24	51	6	M4X0.7	15.5
MY3A25	75	9.5	25	2	14	37	7.4	M5X0.8	7.5	95	5.5	27.5	61	8	M5X0.8	20
MY3A32	96.5	11	32.5	2	14	45	9	M5X0.8	7.5	128	6.6	32.5	76	8	M5X0.8	22.5
MY3A40	120	14	38	2	18	54	12	M6X1	12	160	8.6	40	90	12	M6X1	27
MY3A50	137	14	49	3	16	67	14	M6X1	15.5	190	9	42	112	12	M6X1	27
MY3A63	160	17	60	3	20.5	84	16.5	M8X1.25	22	220	11	50	134	16	M8X1.25	31

Model	NE	NG	NH	NW	P	PA	PB	PC	PD	PG	Q	QW	T	TT	UU	YW	Z
MY3A16	22.5	8	17.2	43	22.5	44	26	32.5	4	4	102	19	7	6.5	30	42	110
MY3A20	27.5	10	20.8	53	27.5	54	30	40	5	4.5	119	23	8	9	35	52	128
MY3A25	32	10	24	65	32	64	40	47.5	6	6	138	30	10	9	47	62	150
MY3A32	39	14	31	79	39	92	44	64	6	7	179	33	10	13.5	52	77	193
MY3A40	46	15	37	94	46	112	60	80	7.5	8.5	223	40	14	14	66	92	240
MY3A50	58	25	47.5	116	58	142	66	95	8.5	8.5	257	44	15	21	74	114	274
MY3A63	70	29	58	139	70	162	84	110	10	10	300	64	16	20	99	136	320

MY3B Bore size - Stroke



Port variation

* Head cover piping connection can be freely selected to best suit different piping conditions.

Slide table operating direction

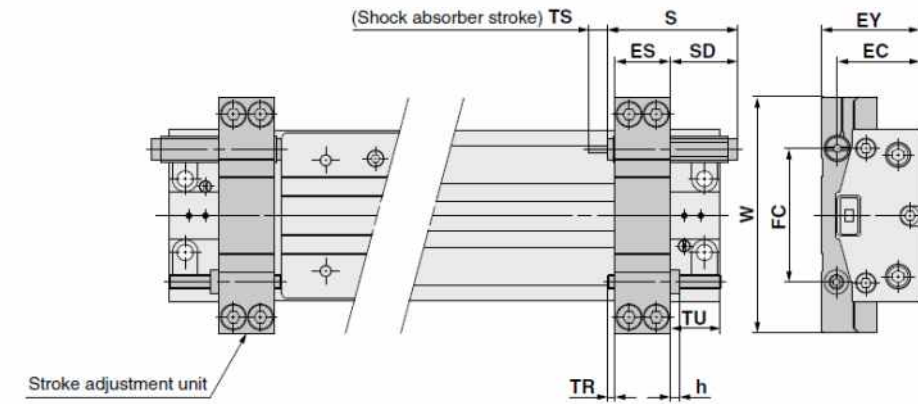
Model	A	B	C	E	G	H	HG	JJ	KK	L	LD	LL	LW	M	MM	N
MY3B16	61	6	18	2	9.5	27	5	M4X0.7	5	65	3.5	28.5	41	6	M4X0.7	13.5
MY3B20	74	7.5	22	2	9.5	32	6.5	M4X0.7	8.5	80	4.5	34	51	6	M4X0.7	15.5
MY3B25	89	9.5	25	2	14	37	7.4	M5X0.8	7.5	95	5.5	41.5	61	8	M5X0.8	20
MY3B32	112.5	11	32.5	2	14	45	9	M5X0.8	7.5	128	6.6	48.5	76	8	M5X0.8	22.5
MY3B40	138	14	38	2	18	54	12	M6X1	12	160	8.6	58	90	12	M6X1	27
MY3B50	155	14	49	3	16	67	14	M6X1	15.5	190	9	60	112	12	M6X1	27
MY3B63	178	17	60	3	20.5	84	16.5	M8X1.25	22	220	11	68	134	16	M8X1.25	31

Model	NE	NG	NH	NW	P	PA	PB	PC	PD	PE	PF	PG	Q	QW	T	TT	UU	YW	Z
MY3B16	22.5	8	17.2	43	22.5	44	26	32.5	4	9.7	8.5	4	114	19	7	6.5	30	42	122
MY3B20	27.5	10	20.8	53	27.5	54	30	40	5	11.2	10	4.5	139	23	8	9	35	52	148
MY3B25	32	10	24	65	32	64	40	47.5	6	14.5	12.2	6	166	30	10	9	47	62	178
MY3B32	39	14	31	79	39	92	44	64	6	16	15	7	211	33	10	13.5	52	77	225
MY3B40	46	15	37	94	46	112	60	80	7.5	19.5	16.5	8.5	259	40	14	14	66	92	276
MY3B50	58	25	47.5	116	58	142	66	95	8.5	20.5	20	8.5	293	44	15	21	74	114	310
MY3B63	70	29	58	139	70	162	84	110	10	23.5	27.5	10	336	64	16	20	99	136	356

Stroke adjustment unit

Low load shock absorber + Adjustment bolt

MY3B Bore size □ - Stroke L

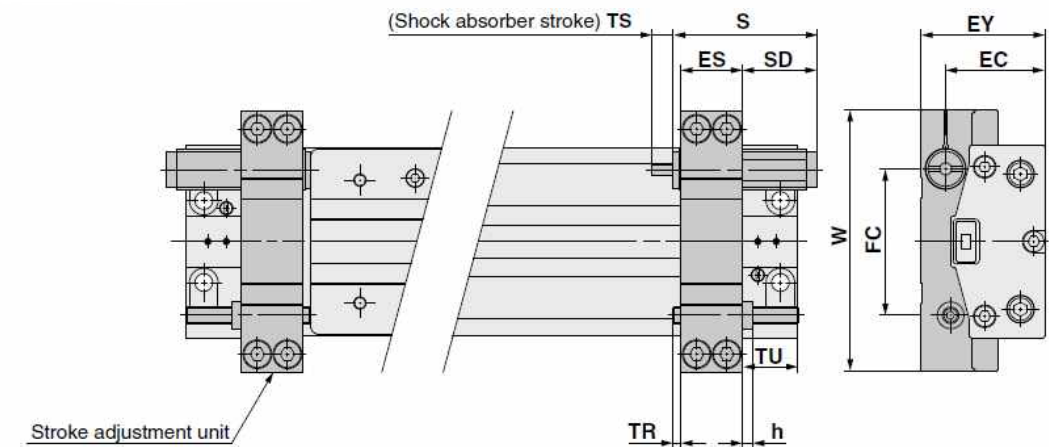


(mm)

Model	ES	EC	EY	FC	h	S	SD	TS	TR	TU	W	Shock absorber model
MY3B16	14.1	21.5	26.5	34.5	2.4	40.8	25.8	6	0.9	25	62	RB0806
MY3B20	14.1	26.5	31.5	41	2.4	40.8	22.3	6	4.4	21.5	72	RB0806
MY3B25	20.1	29.8	36.5	51.5	3.6	46.7	25.2	7	1.4	28.5	90	RB1007
MY3B32	20.1	37.5	44.5	60	3.6	46.7	20.7	7	5.9	24	105	RB1007
MY3B40	30.1	45	53.5	72.5	5	67.3	36.3	12	0.9	39	128	RB1412
MY3B50	30.0	56.5	66.5	88	5	67.3	34.3	12	2.9	37	150	RB1412
MY3B63	36.1	70.5	83.5	108	6	73.2	36.2	15	2.9	43	178	RB2015

Heavy-loaded shock absorber + Adjustment bolt

MY3B Bore size □ - Stroke H

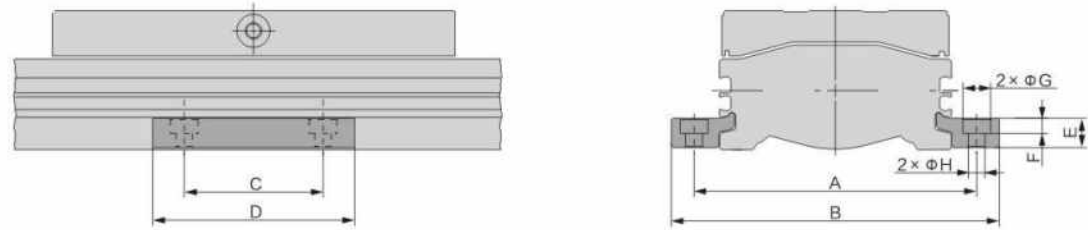


(mm)

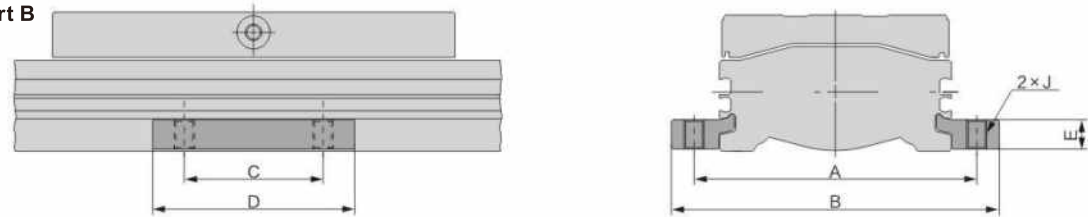
Model	ES	EC	EY	FC	h	S	SD	TS	TR	TU	W	Shock absorber model
MY3B16	14.1	23	29.5	34.5	2.4	46.7	31.7	7	0.9	25	62	RB1007
MY3B20	14.1	27.5	34	41	2.4	46.7	28.2	7	4.4	21.5	72	RB1007
MY3B25	20.1	31.8	41	51.5	3.6	67.3	45.8	12	1.4	28.5	90	RB1412
MY3B32	20.1	39.5	49	60	3.6	67.3	41.3	12	5.9	24	105	RB1412
MY3B40	30.1	48	60.5	72.5	5	73.2	42.2	15	0.9	39	128	RB2015
MY3B50	30.0	58.5	71	88	5	73.2	40.2	15	2.9	37	150	RB2015
MY3B63	36.1	74.5	91	108	6	99	62	25	2.9	43	178	RB2725

Side Support

Side support A MY-S□A



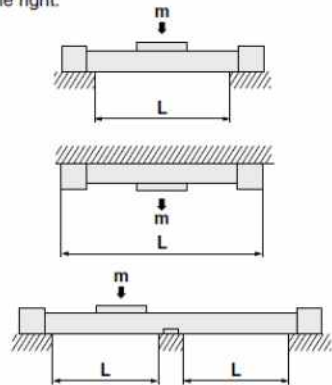
Side support B MY-S□B



Model	Applicable cylinder	A	B	C	D	E	F	G	H	J
MY-S16 ^A _B	MY3A16/MY3B16	53	63.6	15	26	4.9	3	6.5	3.4	M4X0.7
MY-S20 ^A _B	MY3A20/MY3B20	65	77.6	25	38	6.4	4	8	4.5	M5X0.8
MY-S25 ^A _B	MY3A25/MY3B25	77	91	35	50	8	5	9.5	5.5	M6X1
MY-S32 ^A _B	MY3A32/MY3B32	97	115	45	64	11.7	6	11	6.6	M8X1.25
MY-S40 ^A _B	MY3A40/MY3B40	112	130	55	80	11.7	6	11	6.6	M8X1.25
MY-S50 ^A _B	MY3A50/MY3B50	138	160	55	80	14.8	8.5	14	9	M10X1.5
MY-S63 ^A _B	MY3A63/MY3B63	160	182	55	80	14.8	8.5	14	9	M10X1.5

Guide for Side Support Application

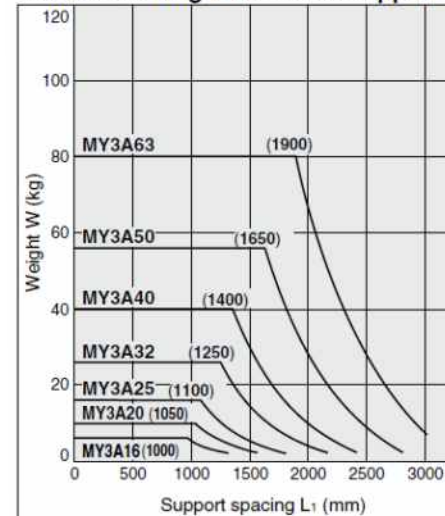
For long stroke operation, the cylinder tube may be deflected depending on its own weight and the load weight. In such a case, use a side support in the middle section. The spacing (L) of the support must be no more than the values shown in the graph on the right.



Caution

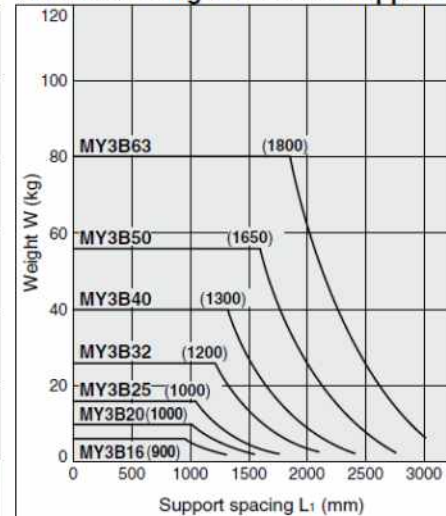
- If the cylinder mounting surfaces are not measured accurately, using a side support may cause poor operation. Therefore, be sure to level the cylinder tube when mounting. Also, for long stroke operation involving vibration and impact, use of a side support is recommended even if the spacing value is within the allowable limits shown in the graph.
- Support brackets are not for mounting; use them solely for providing support.

Guide for Using MY3A Side Support



Note) A side support must be used to keep the spacing from exceeding the value inside the parentheses.

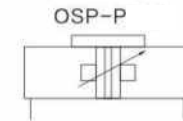
Guide for Using MY3B Side Support



Note) A side support must be used to keep the spacing from exceeding the value inside the parentheses.



Symbol



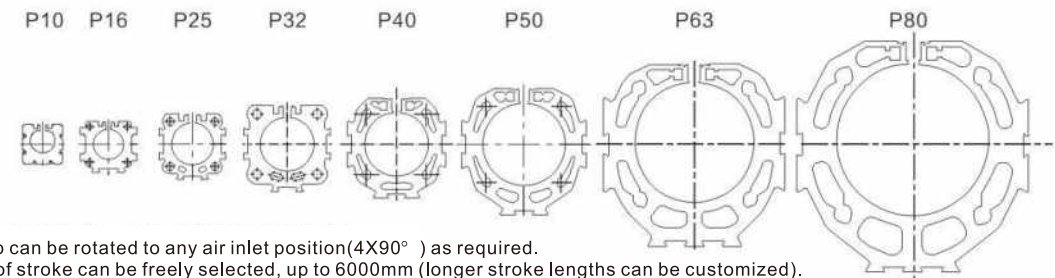
Standard type

- Double and with adjustable end buffer device.
- Magnetic piston for position sensing.

Special type

- Air cushion (Customizable).
- Clean room cylinder.
- Explosion proof type.
- Stainless steel screws.
- Low-speed lubricating grease.
- Fluororubber sealing ring.
- The two inlets are located on the same side.
- Air inlets at both ends.
- Integrated valve.

Size Comparison



- The end cap can be rotated to any air inlet position (4X90°) as required.
- The length of stroke can be freely selected, up to 6000mm (longer stroke lengths can be customized).

Specifications

Pressure is gauge pressure

Characteristic Description	Symbol	Units	Description
General characteristics			
Type			Rodless Cylinder
Series			OSP-P
System			Double-acting, with cushions and magnetic piston
Mounting			See drawings
Air connection		°C	Threaded
Temperature range	Tmin	°C	-10 to 80
Weight		kg	See below table
Mounting type			Any location
Fluid			Filtered, nonlubricated compressed air
Lubrication			Prelubricated at the factory (additional oil mist lubrication not required)
Material	Cylinder body		Anodized aluminum oxide
	Slide tabl(Piston)		Anodized aluminum oxide
	End cup		Aluminium(Polish with paint)
	Sealing tape		Anti corrosion steel strip
	Sealing element		NBR
	Screw		Electroplated steel, stainless steel can be chosen
Dust cover		Plastic	
Dust brush		Plastic	
Max. operation pressure	Pmax	bar	8

Weights (Mass) (kg)

Series	0mm Stroke	Increase per 100mm Stroke
OSP-P10	0.087	0.052
OSP-P16	0.22	0.1
OSP-P25	0.65	0.197
OSP-P32	1.44	0.354
OSP-P40	1.95	0.415
OSP-P50	3.53	0.566
OSP-P63	6.41	0.925
OSP-P80	12.46	1.262

Loads, Forces and Moments

When sizing an OSP cylinder, consideration must be given to:

- Loads, forces and moments
- Performance of the pneumatic end cushions.

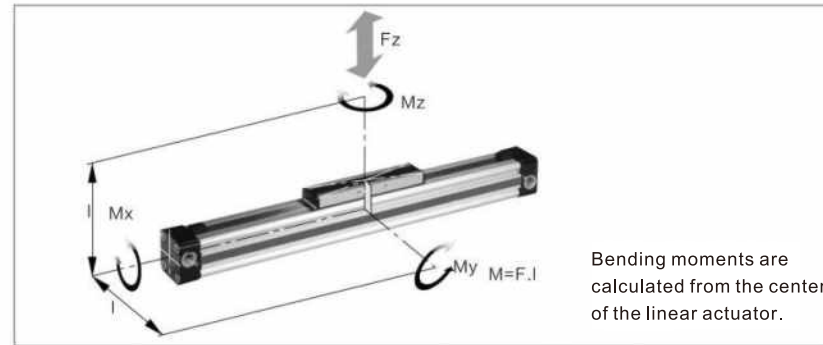
The main factors are the mass to be cushioned and the piston speed (unless external cushioning is used, e. g. hydraulic shock absorbers)

To determine the maximum values for light, shock-free operation, which must not be exceeded even in dynamic operation.

Load and moment data are based on speeds $v \leq 0.5$ m/s.

When working out the action force required, it is essential to take into account the friction forces generated by the specific application or load.

The sum total of each of these types of moments, divided by each of the maximum values, determines a Load-Moment Factor (LMF) should be equal to or less than 1.0. On horizontal mountings, the total load (L) should also be divided by the maximum load allowable and factored into the equation.



Bending moments are calculated from the center of the linear actuator.

Series	Theoretical Output Force at 6 bar (N)	Actual Output Force FA at 6 bar(N)	Max. Moments			Max. Load F (N)	Cushion Length (mm)
			Mx (N.m)	My (N.m)	Mz (N.m)		
OSP-P10	47	32	0.2	1	0.3	20	2.5*
OSP-P16	120	78	0.45	4	0.5	120	11
OSP-P25	295	250	1.5	15	3	300	17
OSP-P32	283	420	3	30	5	450	20
OSP-P40	754	640	6	60	8	750	27
OSP-P50	1178	1000	10	115	15	1200	30
OSP-P63	1870	1550	12	200	24	1650	32
OSP-P80	3015	2600	24	360	48	2400	39

* A rubber element (non-adjustable) is used for end cushioning. To deform the rubber element enough to reach the absolute end position would require a Δp of 4 bar!

Cushioning diagram

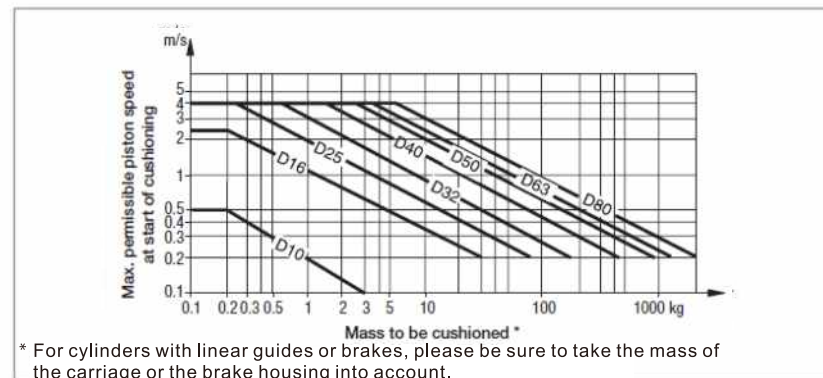
Determine the moving mass and follow the chart below to determine the maximum cylinder velocity.

Alternatively, take your desired velocity and moving mass to determine the required cylinder diameter. If these maximum permissible values are exceeded, additional shock absorbers must be used.

For sizing a basic cylinder, use the adjacent chart. To size a cylinder with guide bearing, use the charts on the following page.

The peak piston velocity can be determined by assuming it is 50% greater than the average velocity.

The peak velocity should be used in sizing the cylinder cushions.



* For cylinders with linear guides or brakes, please be sure to take the mass of the carriage or the brake housing into account.

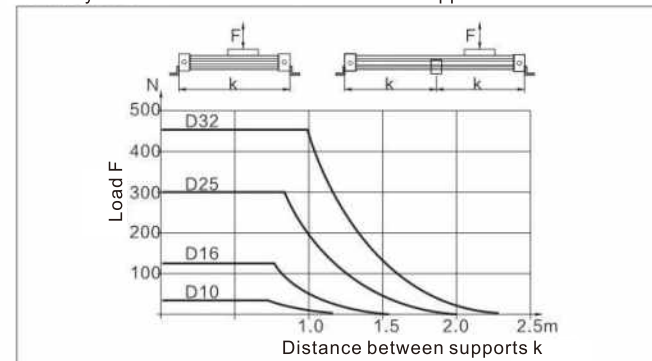
Mid-Section Supports

To avoid excessive bending and oscillation of the cylinder, intermediate supports may be required.

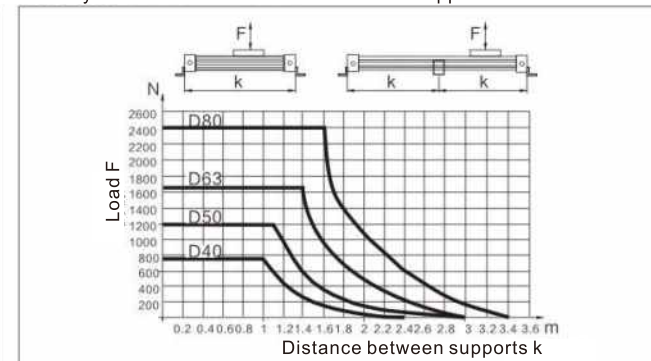
The diagrams below show the maximum permissible support spacing based upon load.

Bending up to 0.5 mm is permissible between supports. The mid-section supports are clamped on to the dovetail profile of the cylinder tube. They are also able to take the axial forces.

Basic cylinder 10 to 32mm bore mid-section supports

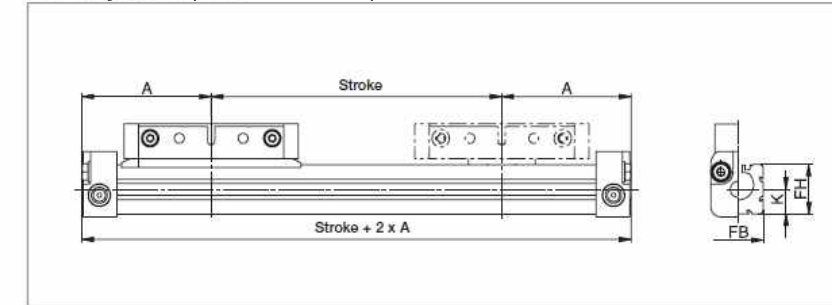


Basic cylinder 40 to 80mm bore mid-section supports



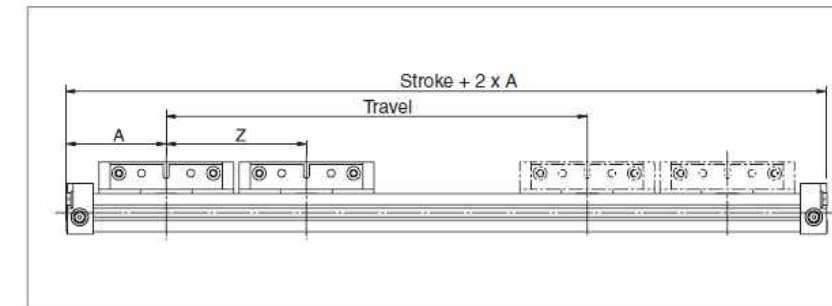
Dimensions (mm)

Basic cylinder (OSP-P10 series)



Cylinder Stroke and Dead Length A

- Free choice of stroke length up to 6000mm in 1mm steps.
- Longer strokes available on request.



Tandem Cylinder

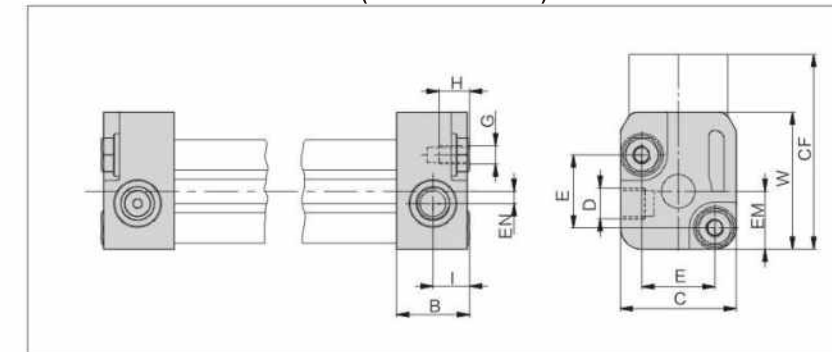
Two pistons are fitted: dimension "Z" is optional. Please note minimum distance "Zmin".

- Free choice of stroke length up to 6000mm in mm steps.

- Longer strokes available on request.

- Stroke length to order is stroke + dimension "Z".

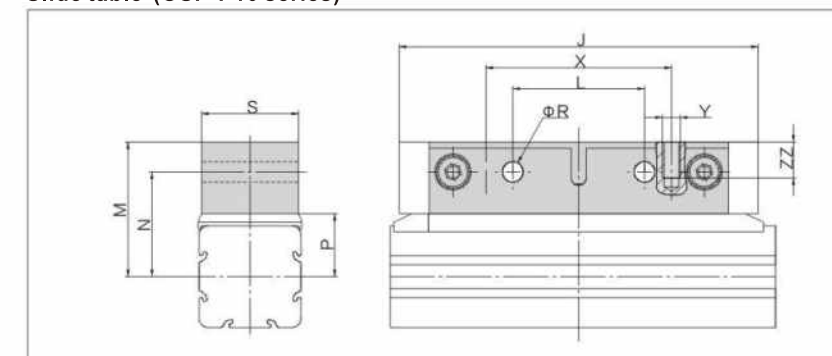
Air Connection on the End-Face (OSP-P10 series)



Please note:

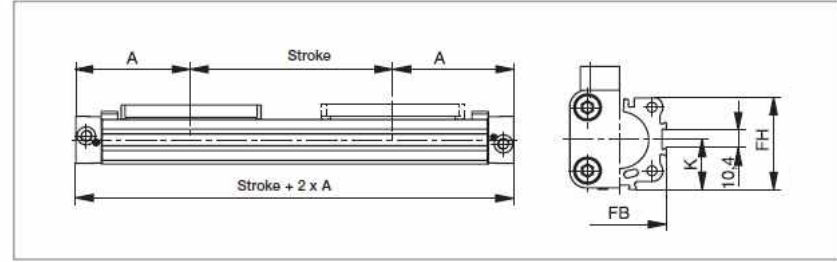
To avoid multiple actuation of magnetic switches, the second piston is not equipped with magnets.

Slide table (OSP-P10 series)



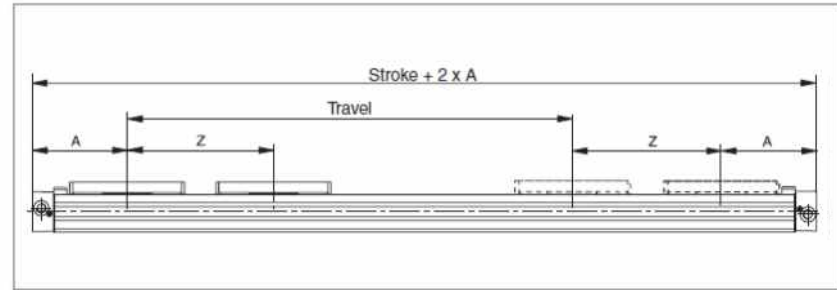
Series	A	B	C	D	E	G	H	I	J	K	L	M	N	P	R	S	W	X	Y	Zmin	CF	EM	EN	FB	FH	ZZ
OSP-P10	44.5	12	19	M5	12	M3	5	6	60	8.5	22	22.5	17.5	10.5	3.4	16	22.5	31	M3	64	32	9.5	2	17	17	6

Basic cylinder (OSP-P10~P80 series)



Cylinder Stroke and Dead Length A

- Free choice of stroke length up to 6000mm in 1mm steps.
- Longer strokes available on request.



Tandem Cylinder

Two pistons are fitted : dimension "Z" is optional. Please note minimum distance "Zmin".

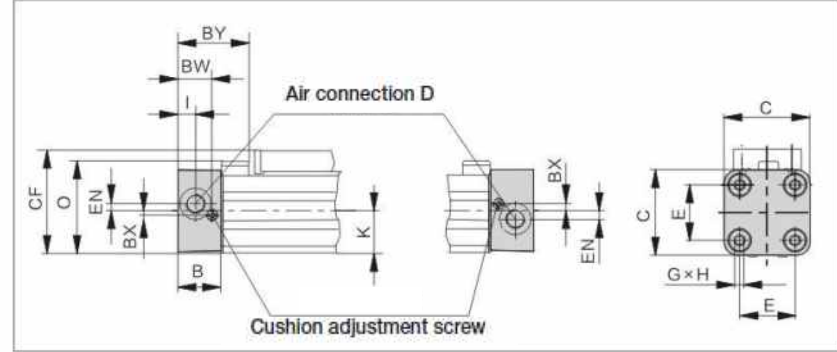
- Free choice of stroke length up to 6000mm in mm steps.

- Longer strokes available on request.

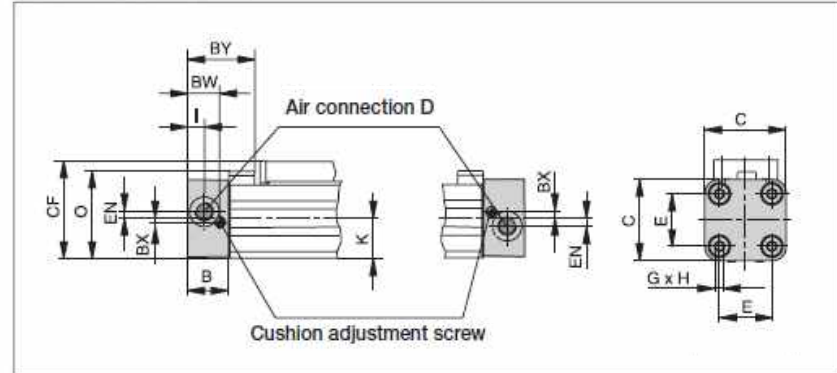
- Stroke length to order is stroke + dimension "Z".

Please note:
To avoid multiple actuation of magnetic switches, the second piston is not equipped with magnets.

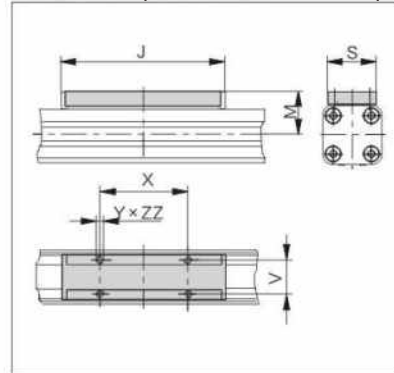
Air Connection on the End-Face, can be rotated 4 x 90° (OSP-P10~P32 series)



Air Connection on the End-Face, can be rotated 4 x 90° (OSP-P40~P80 series)



Slide table (OSP-P16~P80 series)



Series	A	B	C	D	E	G	H	I	J	K	M	O	S	V	X	Y	Zmin	BW	BX	BY	CF	EN	FB	FH	ZZ
OSP-P16	65	14	30	M5	18	M3	9	5.5	69	18	23	33.2	22	16.5	36	M4	81	10.8	1.8	28.4	38	3	30	27.2	7
OSP-P25	100	22	41	G1/8	27	M5	15	9	117	21.5	31	47	33	25	65	M5	128	17.5	2.2	40	52.5	3.6	40	39.5	8
OSP-P32	125	25.5	52	G1/4	36	M6	15	11.5	152	28.5	38	59	36	27	90	M6	170	20.5	2.5	44	66.5	5.5	52	51.7	10
OSP-P40	150	28	69	G1/4	54	M6	15	12	152	34	44	72	36	27	90	M6	212	21	3	54	78.5	7.5	62	63	10
OSP-P50	175	33	87	G1/4	70	M6	15	14.5	200	43	49	86	39	27	110	M6	251	27	-	59	92.5	11	76	77	10
OSP-P63	215	38	106	G3/8	78	M8	21	14.5	256	54	63	107	50	34	140	M8	313	30	-	64	117	12	96	96	16
OSP-P80	260	47	132	G1/2	96	M10	25	22	348	67	80	133	52	36	190	M10	384	37.5	-	73	147	16.5	122	122	20

Model	Total length	Body length	Total height	Total width	Slide hole spacing	Cylinder installation hole spacing	Buffer Allocation	Cylinder weight (Of 0 stroke +50 strokes)	Inlet joint thread	Theoretical load weight	Switch model	
MY1B10	110+S	80+S	27	28	25*17/M3	100+S*22	-	H/RB0805	0.15+0.04	M3	5kg	D-M9B
MY1B16	160+S	120+S	37	37	40*20/M4	153+S*30	L/RB0604	-	0.61+0.06	M5	15kg	D-M9B
MY1B20	200+S	150+S	46	45	50*25/M5	191+S*36	L/RB0806	H/RB1007	1.06+0.1	M5	25kg	D-M9B
MY1B25	220+S	160+S	54	53	60*30/M5	206+S*42	L/RB1007	H/RB1412	1.33+0.12	G1/8	40kg	D-M9B
MY1B32	280+S	206+S	68	64	80*35/M6	264+S*51	L/RB1412	H/RB2015	2.65+0.18	G1/8	60kg	D-M9B
MY1B40	340+S	250+S	84	75	100*40/M6	322+S*59	L/RB1412	H/RB2015	3.87+0.27	G1/4	100kg	D-M9B
MY1B50	400+S	306+S	94	92	120*50/M8	384+S*76	-	-	7.78+0.44	G3/8	160kg	D-M9B
MY1B63	460+S	360+S	116	112	140*60/M8	400+S*92	-	-	13.1+0.7	G3/8	250kg	D-M9B

Model	Total length	Body length	Total height	Total width	Slide hole spacing	Cylinder installation hole spacing	Buffer Allocation	Cylinder weight (Of 0 stroke +50 strokes)	Inlet joint thread	Theoretical load weight	Switch model	
MY1M16	160+S	120+S	40	68	40*40/M4	153+S*48	L/RB0806	-	0.67+0.12	M5	16kg	D-M9B
MY1M20	200+S	150+S	46	72	50*40/M5	191+S*45	L/RB0806	H/RB1007	1.11+0.16	M5	25kg	D-M9B
MY1M25	220+S	160+S	54	84	60*50/M5	206+S*46	L/RB1007	H/RB1412	1.64+0.24	G1/8	40kg	D-Z73
MY1M32	280+S	206+S	68	102	80*60/M6	264+S*60	L/RB1412	H/RB2015	3.27+0.38	G1/8	60kg	D-Z73
MY1M40	340+S	250+S	84	118	100*80/M6	322+S*72	L/RB1412	H/RB2015	5.88+0.56	G1/4	100kg	D-Z73
MY1M50	400+S	306+S	107	144	120*90/M8	380+S*90	L/RB2015	H/RB2725	10.06+0.77	G3/8	160kg	D-Z73

Model	Total length	Body length	Total height	Total width	Slide hole spacing	Cylinder installation hole spacing	Buffer Allocation	Cylinder weight (Of 0 stroke +50 strokes)	Inlet joint thread	Theoretical load weight	Switch model	
MY3B16	122+S	95+S	27	43	44*26/M4	114+S*19	L/RB0806	-	0.23+0.06	M5	16kg	D-M9B
MY3B20	148+S	117+S	32	53	54*30/M4	139+S*23	L/RB0806	-	0.49+0.09	M5	25kg	D-M9B
MY3B25	178+S	138+S	37	65	64*40/M5	166+S*30	L/RB1007	-	0.75+0.17	G1/8	40kg	D-M9B
MY3B32	225+S	180+S	45	79	92*44/M5	211+S*33	L/RB1007	-	1.39+0.18	G1/8	60kg	D-M9B
MY3B40	276+S	222+S	54	94	112*60/M6	259+S*40	L/RB1412	-	2.58+0.25	G1/4	100kg	D-M9B

Model	Total length	Body length	Total height	Total width	Slide hole spacing	Cylinder installation hole spacing	Buffer Allocation	Cylinder weight (Of 0 stroke +50 strokes)	Inlet joint thread	Theoretical load weight	Switch model	
MY3A16	110+S	83+S	27	43	44*26/M4	102+S*19	L/RB0806	-	0.22+0.06	M5	16kg	D-M9B
MY3A20	128+S	97+S	32	53	54*30/M4	119+S*23	L/RB0806	-	0.39+0.09	M5	25kg	D-M9B
MY3A25	150+S	110+S	37	65	64*40/M5	138+S*30	L/RB1007	-	0.65+0.17	G1/8	40kg	D-M9B
MY3A32	193+S	148+S	45	79	92*44/M5	179+S*33	L/RB1007	-	1.25+0.18	G1/8	60kg	D-M9B
MY3A40	240+S	186+S	54	94	112*60/M6	223+S*40	L/RB1412	-	2.45+0.25	G1/4	100kg	D-M9B

Model	Total length	Body length	Total height	Total width	Slide hole spacing	Cylinder installation hole spacing	Buffer Allocation	Cylinder weight (Of 0 stroke +50 strokes)	Inlet joint thread	Theoretical load weight	Switch model	
MY1H16	160+S	120+S	40	60	40*40/M4	153+S*30	L/RB0806	H/RB1007	0.74+0.14	M5	15kg	D-M9B
MY1H20	200+S	150+S	46	78	50*40/M5	191+S*36	L/RB0806	H/RB1007	1.35+0.25	M5	25kg	D-M9B
MY1H25	220+S	160+S	54	90	60*50/M5	206+S*42	L/RB1007	H/RB1412	2.31+0.3	G1/8	40kg	D-M9B
MY1H32	280+S	206+S	68	110	80*60/M6	264+S*51	L/RB1412	H/RB2015	4.65+0.46	G1/8	60kg	D-M9B
MY1H40	340+S	250+S	84	121	100*80/M6	322+S*59	L/RB1412	H/RB2015	5.84+0.55	-	100kg	D-M9B

Model	Total length	Body length	Total height	Total width	Slide hole spacing	Cylinder installation hole spacing	Buffer Allocation	Cylinder weight (Of 0 stroke +50 strokes)	Inlet joint thread	Theoretical load weight	Switch model	
MY2H16	160+S	120+S	27	83	40*40/M4	152+S*40	L/RB0806	H/RB0806	0.86+0.22	M5	15kg	D-M9B
MY2HT16	160+S	120+S	27	120	44*80/M5	140+S*66	L/RB0806	H/RB1007	1.27+0.31	M5	15kg	D-M9B
MY2H25	210+S	160+S	35.5	123	60*60/M5	198+S*60	L/RB1007	H/RB1007	2.35+0.42	G1/8	40kg	D-M9B
MY2HT25	210+S	160+S	35.5	176	63*110/M8	185+S*98	L/RB1007	H/RB1412	3.7+0.61	G1/8	40kg	D-M9B