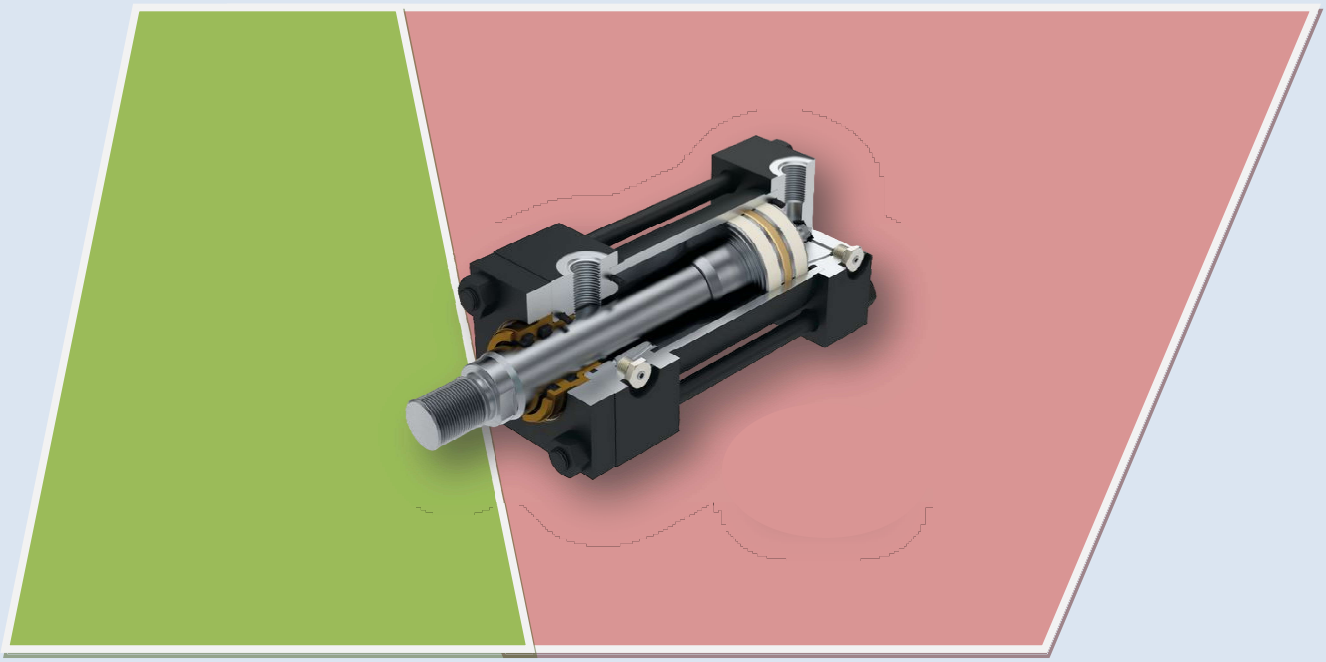
SAVI
HYDRAULICS

HYDRAULIC CYLINDERS AS PER ISO 6020/2



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HYDRAULIC CYLINDERS AS PER ISO 6020/2

Presentation

The range of hydraulic double acting cylinders has been developed to meet the requirements of the industrial sector in accordance with ISO 6020/2 (1991 edition) and DIN 24554 construction standards.
The compact construction with square heads and tie rods, with carefully choosing the materials and seals used, combined with strict final testing makes these hydraulic actuators a valid choice for all types of industrial applications in which maximum reliability and repeatability is highly important.

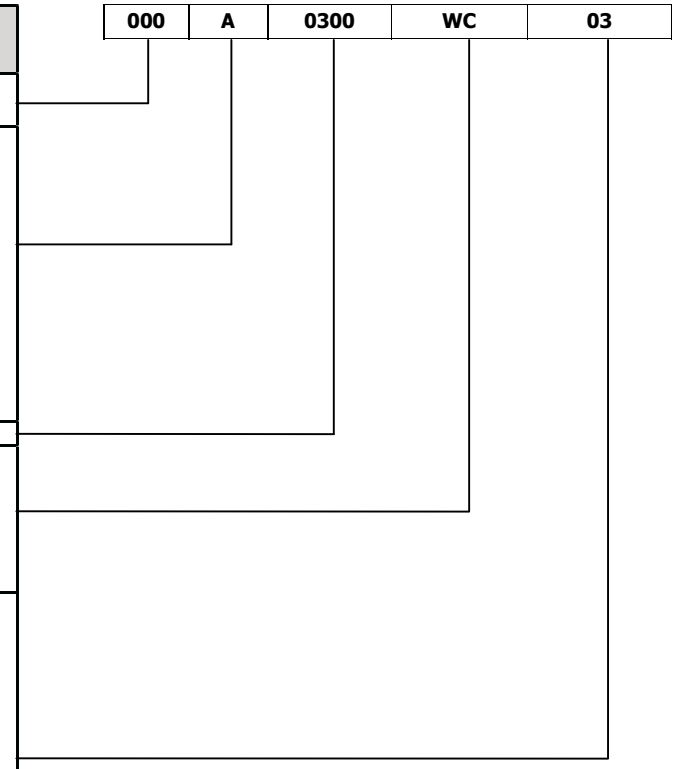
Technical features

- **Interchangeable dimensions:** in accordance with standard ISO 6020/2 (1991 edition) and DIN 24554
- **Nominal working pressure (continuous service):** 160 bar (16 MPa)
- **Maximum working pressure:** 250 bar (25 MPa)
- **Available bore sizes:** from 25 to 100 mm
- **Rod diameters:** 2 or 3 diameters depending on the bore are available from 16 to 70 mm which enable the following cross-section ratios to be obtained:
  a) 1:1.25 reduced-size rod
  b) 1:1.4 medium-sized rod
  c) 1:2 large-sized rod
- **Rod material:** high-resistance, hardened and tempered steel alloy, chromed and honed with a roughness of Ra = 0.2 µm. On request the rod can be constructed using induction tempering heat treatment, in stainless steel or with Ni-Cr surface treatment
- **Stroke:** 25 mm up to 500 mm
- **Standard maximum speed:** 0.5 m/s
- **Standard temperature:** from -20 °C to +100 °C
- **Standard hydraulic fluid:** mineral oil in accordance with ISO 6743/4 - 1982 with degree of purity in compliance with ISO 4406
- **Available mountings and accessories:** 14 different types of standard mounting compliant with ISO standards and 3 non - compliant completed by a vast range of accessories which enable any type of operational requirement to be met

HOW TO ORDER SAVI CYLINDER WITH ISO 6020/2

The SAVI series cylinders compliant with ISO 6020/2 standards are provided with an identification code which describes the construction specifications in a non-ambiguous way.
To make up the code for the order, follow the code diagram set out below and insert the letters identifying the various features of the desired cylinder in the sequence given below.

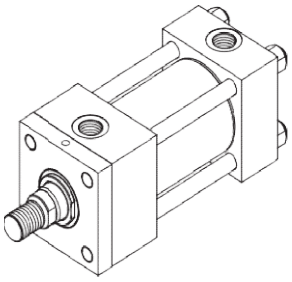
Features	Description	Code
Bore	Specify bore in mm (indicate 3 figures)	**-**
Rod	Rod diameter 12 mm (bore 25)	**A**
	Rod diameter 14 mm (bore 32)	**B**
	Rod diameter 18 mm (bores 25, 32 and 40)	**C**
	Rod diameter 22 mm (bores 32, 40 and 50)	**D**
	Rod diameter 28 mm (bores 40, 50 and 63)	**E**
	Rod diameter 36 mm (bores 50, 63 and 80)	**F**
	Rod diameter 45 mm (bores 63, 80 and 100)	**G**
	Rod diameter 56 mm (bores 80, 100)	**H**
	Rod diameter 70 mm (bores 100)	**J**
Stroke	Specify the stroke in mm (indicate 4 figures)	**-**
Rod type	Without cushion	**WC**
	cushioningFront	**FC**
	cushioning Rear	**RC**
	Cushioning on both ends	**BC**
Mounting type	Basic version (not in line to ISO 6020/2)	**01**
	Rectangular front flange (not in line to ISO 6020/2)	**02**
	Rectangular rear flange (not in line to ISO 6020/2)	**03**
	Side foot (ISO MS2)	**04**
	Head trunnion (ISO MT1)	**05**
	Cap trunnion (ISO MT2)	**06**
	Intermediate fixed trunnion (ISO MT4)	**07**
	Rear clevis (ISO MP3)	**08**
	Rear spherical bearing (ISO MP5)	**09**
	Cap fixed clevis (ISO MP1)	**10**
!	Extended front tie rods (ISO MX3)	**11**
	Extended rear tie rods (ISO MX2)	**12**
Not	Tie rods Extended on both ends (ISO MX1)	**13**
	Head flange (ISO ME5)	**14**
	Cap flange (ISO ME6)	**15**
avai	Front screwed tapped holes (ISO MX5)	**16**
l	Rear screwed tapped holes (ISO MX6)	**17**



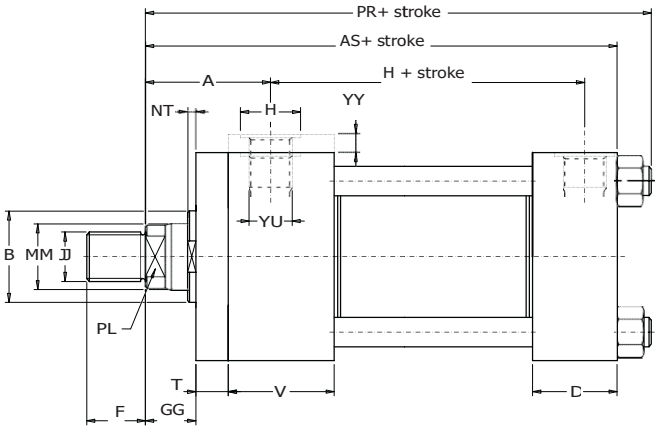
Example of cylinder code: **063G125FC03**

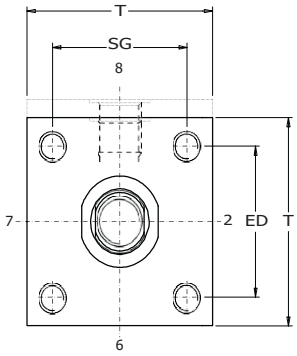
Type 01

(Not as per ISO standards)



Basic version

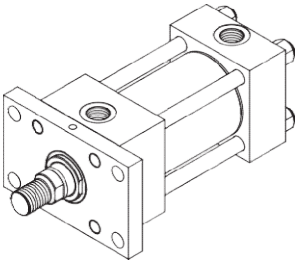




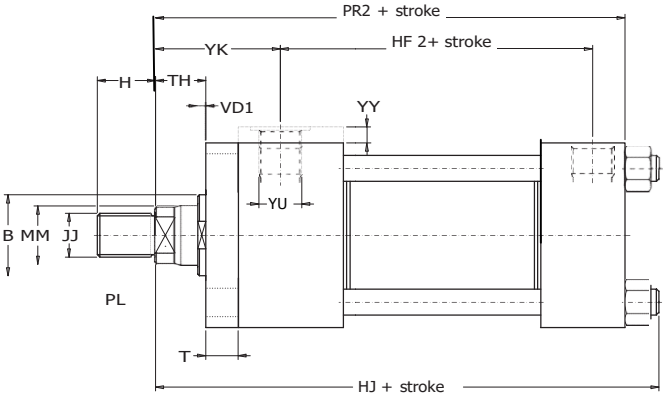
BoreØ	MMØ	F	B g9 Ø	pl	YY	T	YU (SAV)	HØ	T	V	D	JJ (Metric)	H	ED	VT	GG	A	PRmax	AS
25	12	14	24	9	5	40	1/4"	22	10	45	35	M10x1,25	54	28,3	6	15	50	121	114
	18	18	30	14								M14x1,5							
32	14	16	26	11	5	45	1/4"	22	10	45	36	M12x1,25	57	33,2	12	25	60	137	128
	18	18	30	14								M14x1,5			6				
	22	22	34	17								M16x1,5			12				
40	18	18	30	14	-	60	3/8"	25	10	55	45	M14x1,5	74	41,7	6	25	62	166	153
	22	22	34	17								M16x1,5			12				
	28	28	42	22								M20x1,5			10				
50	22	22	34	17	-	75	1/2"	30	15	55	45	M16x1,5	76	52,3	7	26	68	176	159
	28	28	42	22								M20x1,5			7				
	36	36	50	30								M27x2			10				
63	28	28	42	22	-	90	1/2"	30	15	55	45	M20x1,5	80	64,3	7	33	71	185	168
	36	36	50	30								M27x2			10				
	45	45	60	36								M33x2			14				
80	36	36	50	30	-	114	3/4"	37	20	65	52	M27x2	93	82,7	5	31	77	212	190
	45	45	60	36								M33x2			9				
	56	56	72	50								M42x2			9				
100	45	45	60	36	-	126	3/4"	37	22	69	55	M33x2	101	96,9	7	35	82	225	203
	56	56	72	50								M42x2			7				
	70	63	88	60								M48x2			10				

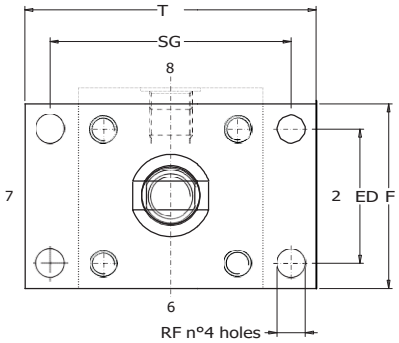
Type 02

(Not to ISO standards)



Rectangular front flange



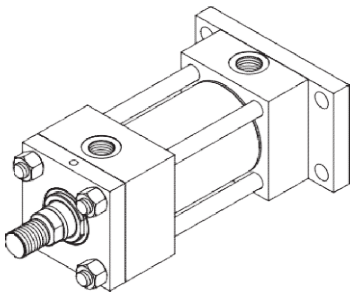


BoreØ	MMØ	H	B f8 Ø	PL	YY	F	YU (BSP)	RF Ø	JJ (Metric)	H	ED	T	SG	T	GH2	TH	YK	HF2max	PR2
25	12	14	24	9	5	40	1/4"	5,5	M10x1,25	54	27	10	51	64	6	25	60	131	124
	18	18	30	14					M14x1,5										
32	14	16	26	11	5	45	1/4"	6,6	M12x1,25	57	33	10	58	70	12	35	70	147	138
	18	18	30	14					M14x1,5						6				
	22	22	34	17					M16x1,5						12				
40	18	18	30	14	-	60	3/8"	11	M14x1,5	74	41	12	87	110	4	35	74	178	165
	22	22	34	17					M16x1,5						10				
	28	28	42	22					M20x1,5						8				
50	22	22	34	17	-	75	1/2"	13,5	M16x1,5	76	52	15	105	130	7	41	83	191	174
	28	28	42	22					M20x1,5						7				
	36	36	50	30					M27x2						10				
63	28	28	42	22	-	90	1/2"	13,5	M20x1,5	80	65	18	117	140	4	48	89	203	186
	36	36	50	30					M27x2						7				
	45	45	60	36					M33x2						11				
80	36	36	50	30	-	114	3/4"	17,5	M27x2	93	83	20	149	180	5	51	97	232	210
	45	45	60	36					M33x2						9				
	56	56	72	50					M42x2						9				
100	45	45	60	36	-	126	3/4"	17,5	M33x2	101	97	25	162	190	4	57	107	250	228
	56	56	72	50					M42x2						4				
	70	63	88	60					M48x2						7				

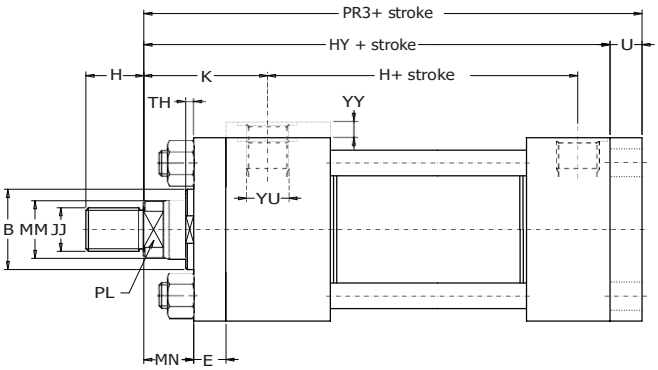
specified all dimensions are given in millimetres.

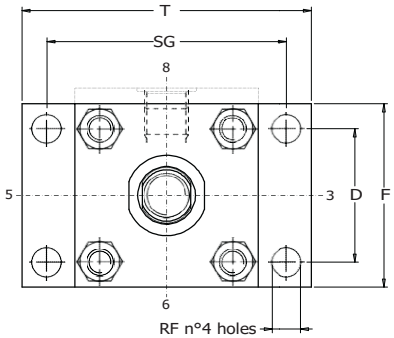
Type 03

(Not to ISO standards)



Rectangular rear flange



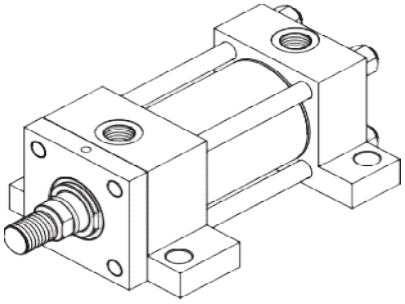


BoreØ	MM Ø	H	B f8 Ø	PL	YY	F	YU (BSP)	E	RF Ø	JJ (Metric)	H	D	U	SG	T	TH	MN	K	PR3	HY
25	12	14	24	9	5	40	1/4"	10	5,5	M10x1,25	54	27	10	51	64	6	15	50	124	114
	18	18	30	14						M14x1,5										
32	14	16	26	11	5	45	1/4"	10	6,6	M12x1,25	57	33	10	58	70	12	25	60	138	128
	18	18	30	14						M14x1,5						6				
	22	22	34	17						M16x1,5						12				
40	18	18	30	14	-	60	3/8"	10	11	M14x1,5	74	41	12	87	110	6	25	62	165	153
	22	22	34	17						M16x1,5						12				
	28	28	42	22						M20x1,5						10				
50	22	22	34	17	-	75	1/2"	15	13,5	M16x1,5	76	52	15	105	130	7	26	68	174	159
	28	28	42	22						M20x1,5						7				
	36	36	50	30						M27x2						10				
63	28	28	42	22	-	90	1/2"	15	13,5	M20x1,5	80	65	18	117	140	7	33	71	186	168
	36	36	50	30						M27x2						10				
	45	45	60	36						M33x2						14				
80	36	36	50	30	-	114	3/4"	20	17,5	M27x2	93	83	20	149	180	5	31	77	210	190
	45	45	60	36						M33x2						9				
	56	56	72	50						M42x2						9				
100	45	45	60	36	-	126	3/4"	22	17,5	M33x2	101	97	25	162	190	7	35	82	228	203
	56	56	72	50						M42x2						7				
	70	63	88	60						M48x2						10				

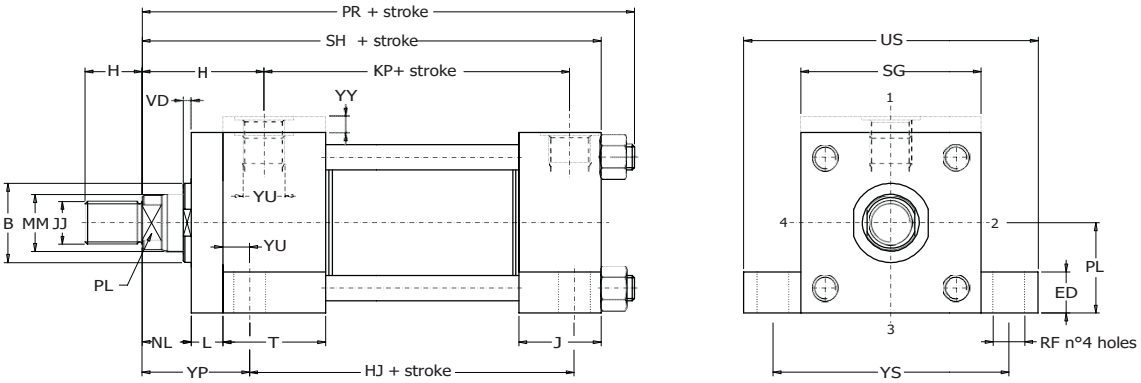
Specified, all dimensions are given in millimetres

Type 04

(ISO MS2)



Side foot



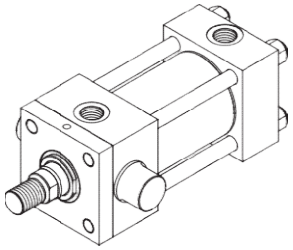
BoreØ	MMØ
25	12
	18
32	14
	18
	22
40	18
	22
	28
50	22
	28
	36
63	28
	36
	45
80	36
	45
	56
100	45
	56
	70

H	B f8 Ø	PL	YY	SG	YU (BSP)	L	T	J	JJ (Metric)	PL U10	KP	RF Ø	HJ	ED	YU	VD	YS	US	YP	NL	H	PR_{max}	SH
14	24	9	5	38	1/4"	10	45	35	M10x1,25	19	54	6,6	73	8,5	8	6	54	70	33	15	50	121	114
18	30	14							M14x1,5														
16	26	11	5	44	1/4"	10	45	36	M12x1,25	22	57	9	73	12,5	10	12	63	84	45	25	60	137	128
18	30	14							M14x1,5							6							
22	34	17							M16x1,5							12							
18	30	14	-	60	3/8"	10	55	45	M14x1,5	31	74	11	98	12,5	10	6	83	102	45	25	62	166	153
22	34	17							M16x1,5							12							
28	42	22							M20x1,5							10							
22	34	17	-	75	1/2"	15	55	45	M16x1,5	37	76	14	92	19	13	7	102	126	54	26	68	176	159
28	42	22							M20x1,5							7							
36	50	30							M27x2							10							
28	42	22	-	90	1/2"	15	55	45	M20x1,5	44	80	18	86	26	17	7	124	160	65	33	71	185	168
36	50	30							M27x2							10							
45	60	36							M33x2							14							
36	50	30	-	114	3/4"	20	65	52	M27x2	57	93	18	105	26	17	5	149	186	68	31	77	212	190
45	60	36							M33x2							9							
56	72	50							M42x2							9							
45	60	36	-	126	3/4"	22	69	55	M33x2	63	101	26	102	32	22	7	172	216	79	35	82	225	203
56	72	50							M42x2							7							
63	88	60							M48x2							10							

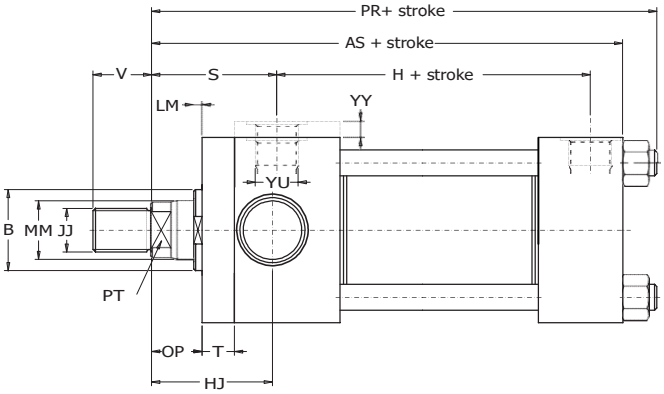
Specified all dimensions are given in millimetres.

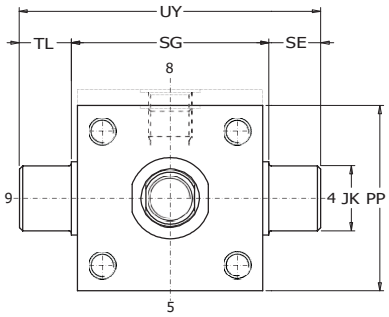
Type 05

(ISO MT1)



Head trunnion



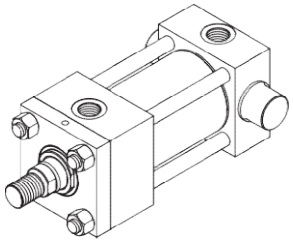


BoreØ	MMØ	V	B^{f8} Ø	PT	YY	T	YU (BSP)	JJ (Metric)	H	SG	JK^{f8} Ø	SE	PP	UV	LM	HJ	OP	S	PR$_{max}$	AS
25	12	14	24	9	5	10	1/4"	M10x1,25	54	38	12	10	38	58	6	44	15	50	121	114
	18	18	30	14				M14x1,5												
32	14	16	26	11	5	10	1/4"	M12x1,25	57	44	16	12	44	68	12	54	25	60	137	128
	18	18	30	14				M14x1,5							6					
	22	22	34	17				M16x1,5							12					
40	18	18	30	14	-	10	3/8"	M14x1,5	74	63	20	16	60	95	6	57	25	62	166	153
	22	22	34	17				M16x1,5							12					
	28	28	42	22				M20x1,5							10					
50	22	22	34	17	-	15	1/2"	M16x1,5	76	76	25	20	75	116	7	64	26	68	176	159
	28	28	42	22				M20x1,5							7					
	36	36	50	30				M27x2							10					
63	28	28	42	22	-	15	1/2"	M20x1,5	80	89	32	25	88	139	7	70	33	71	185	168
	36	36	50	30				M27x2							10					
	45	45	60	36				M33x2							14					
80	36	36	50	30	-	20	3/4"	M27x2	93	114	40	32	114	178	5	76	31	77	212	190
	45	45	60	36				M33x2							9					
	56	56	72	50				M42x2							9					
100	45	45	60	36	-	-	3/4"	M33x2	101	127	50	40	126	207	7	71	35	82	225	203
	56	56	72	50				M42x2							7					
	70	63	88	60				M48x2							10					

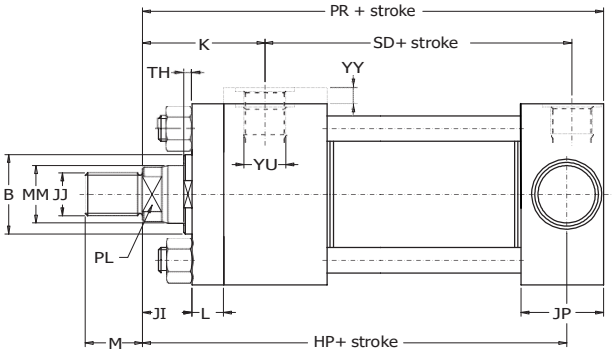
specified all dimensions are given in millimetres.

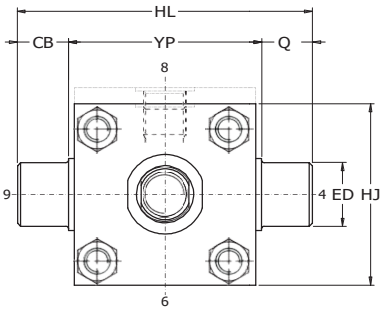
Type 06

(ISO MT2)



Cap trunnion



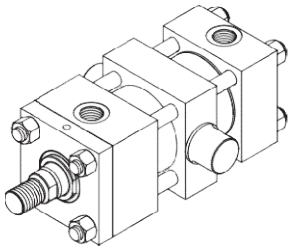


Bore Ø	MM Ø	M	B^{f8} Ø	PL	YY	L	YU (BSP)	JJ (Metric)	SD	YP	ED^{f8} Ø	Q	HJ	HL	TH	HP	JI	K	PR	JP
25	12	14	24	9	5	10	1/4"	M10x1,25	54	38	12	10	38	58	6	101	15	50	114	35
	18	18	30	14				M14x1,5												
32	14	16	26	11	5	10	1/4"	M12x1,25	57	44	16	12	44	68	12	115	25	60	128	36
	18	18	30	14				M14x1,5							6					
	22	22	34	17				M16x1,5							12					
40	18	18	30	14	-	10	3/8"	M14x1,5	74	63	20	16	60	95	6	134	25	62	153	45
	22	22	34	17				M16x1,5							12					
	28	28	42	22				M20x1,5							10					
50	22	22	34	17	-	15	1/2"	M16x1,5	76	76	25	20	75	116	7	140	26	68	159	45
	28	28	42	22				M20x1,5							7					
	36	36	50	30				M27x2							10					
63	28	28	42	22	-	15	1/2"	M20x1,5	80	89	32	25	88	139	7	149	33	71	168	45
	36	36	50	30				M27x2							10					
	45	45	60	36				M33x2							14					
80	36	36	50	30	-	20	3/4"	M27x2	93	114	40	32	114	178	5	168	31	77	190	52
	45	45	60	36				M33x2							9					
	56	56	72	50				M42x2							9					
100	45	45	60	36	-	22	3/4"	M33x2	101	127	50	40	126	207	7	187	35	82	216	68
	56	56	72	50				M42x2							7					
	70	63	88	60				M48x2							10					

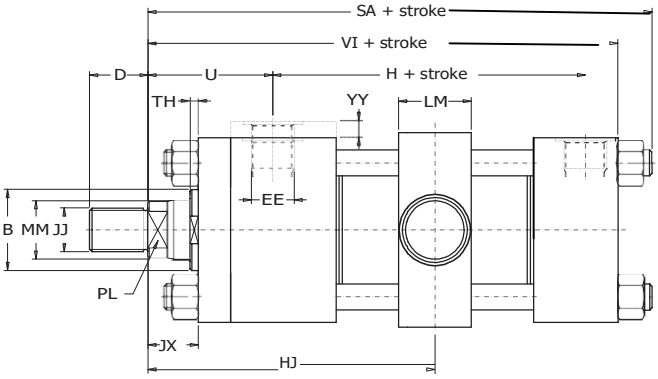
Specified all dimensions are given in millimetres.

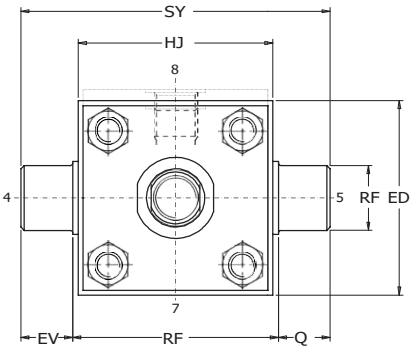
Type 07

(ISO MT4)



Intermediate fixed trunnion



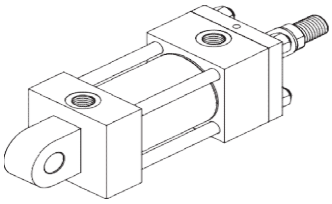


BoreØ	MM Ø	D	B^{f8} Ø	PL	YY	YU (BSP)	JJ (Metric)	H	LM	RF^{f8} Ø	EV	RF	ED	WD	TH	HJ minimum	HJ+stroke maximum	U	JX	SA_{max}	VI	Stroke minimum
25	12	14	24	9	5	1/4"	M10x1,25	54	20	12	10	48	68	45	6	80	69	50	15	121	114	11
	18	18	30	14			M14x1,5															
32	14	16	26	11	5	1/4"	M12x1,25	57	25	16	12	55	79	50	12	93	79	60	25	137	128	13
	18	18	30	14			M14x1,5								6							
	22	22	34	17			M16x1,5								12							
40	18	18	30	14	-	3/8"	M14x1,5	74	30	20	16	76	108	70	6	105	93	62	25	166	153	12
	22	22	34	17			M16x1,5								12							
	28	28	42	22			M20x1,5								10							
50	22	22	34	17	-	1/2"	M16x1,5	76	40	25	20	89	129	85	7	116	94	68	26	176	159	22
	28	28	42	22			M20x1,5								7							
	36	36	50	30			M27x2								10							
63	28	28	42	22	-	1/2"	M20x1,5	80	40	32	25	100	150	95	7	123	103	71	33	185	168	20
	36	36	50	30			M27x2								10							
	45	45	60	36			M33x2								14							
80	36	36	50	30	-	3/4"	M27x2	93	45	40	32	127	191	120	5	139	115	77	31	212	190	23
	45	45	60	36			M33x2								9							
	56	56	72	50			M42x2								9							
100	45	45	60	36	-	3/4"	M33x2	101	60	50	40	140	220	130	7	156	118	82	35	225	203	38
	56	56	72	50			M42x2								7							
	70	63	88	60			M48x2								10							

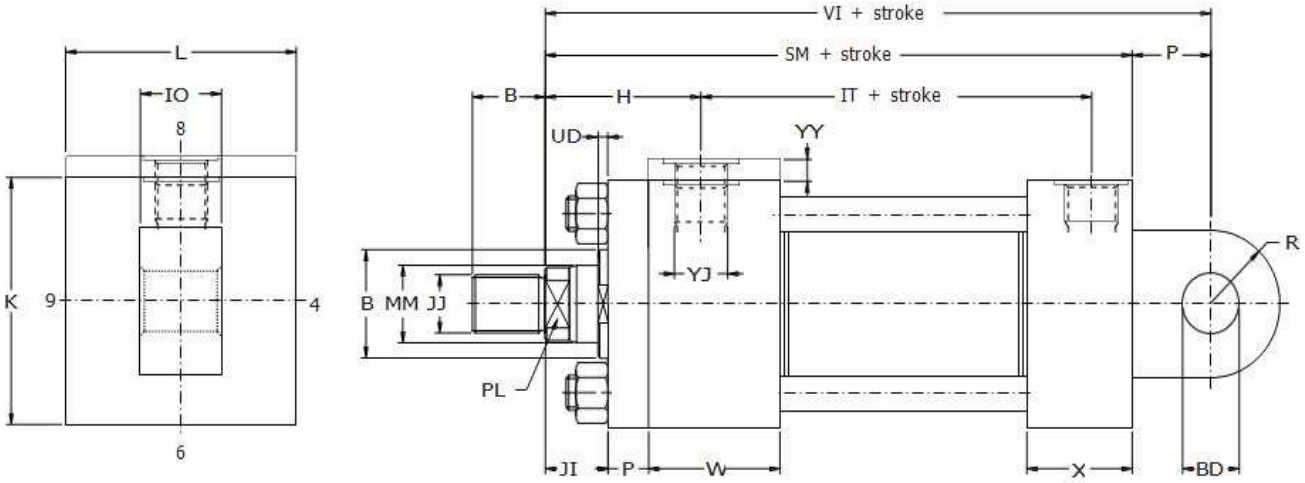
specified all dimensions are given in millimetres.

Type 08

(ISO MP3)



Rear clevis



Bore Ø	MM Ø
25	12
	18
32	14
	18
	22
40	18
	22
	28
50	22
	28
	36
63	28
	36
	45
80	36
	45
	56
100	45
	56
	70

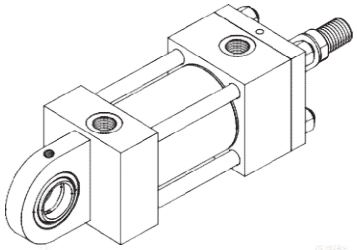
B	B^{f8} Ø	PL	YY	L	YJ (BSP)	P	W	X	JJ (Metric)	BD^{H9} Ø	IO	P	R_{max}	IT	UD	JI	H	VI	SM
14	24	9	5	40	1/4"	10	45	35	M10x1,25	10	12	13	12	54	6	15	50	127	114
18	30	14							M14x1,5										
16	26	11	5	45	1/4"	10	45	36	M12x1,25	12	16	19	17	57	12	25	60	147	128
18	30	14							M14x1,5						6				
22	34	17							M16x1,5						12				
18	30	14	-	60	3/8"	10	55	45	M14x1,5	14	20	19	17	74	6	25	62	172	153
22	34	17							M16x1,5						12				
28	42	22							M20x1,5						10				
22	34	17	-	75	1/2"	15	55	45	M16x1,5	20	30	32	29	76	7	26	68	191	159
28	42	22							M20x1,5						7				
36	50	30							M27x2						10				
28	42	22	-	90	1/2"	15	55	45	M20x1,5	20	30	32	29	80	7	33	71	200	168
36	50	30							M27x2						10				
45	60	36							M33x2						14				
36	50	30	-	114	3/4"	20	65	52	M27x2	28	40	39	34	93	5	31	77	229	190
45	60	36							M33x2						9				
56	72	50							M42x2						9				
45	60	36	-	126	3/4"	22	69	55	M33x2	36	50	54	50	101	7	35	82	257	203
56	72	50							M42x2						7				
63	88	60							M48x2						10				

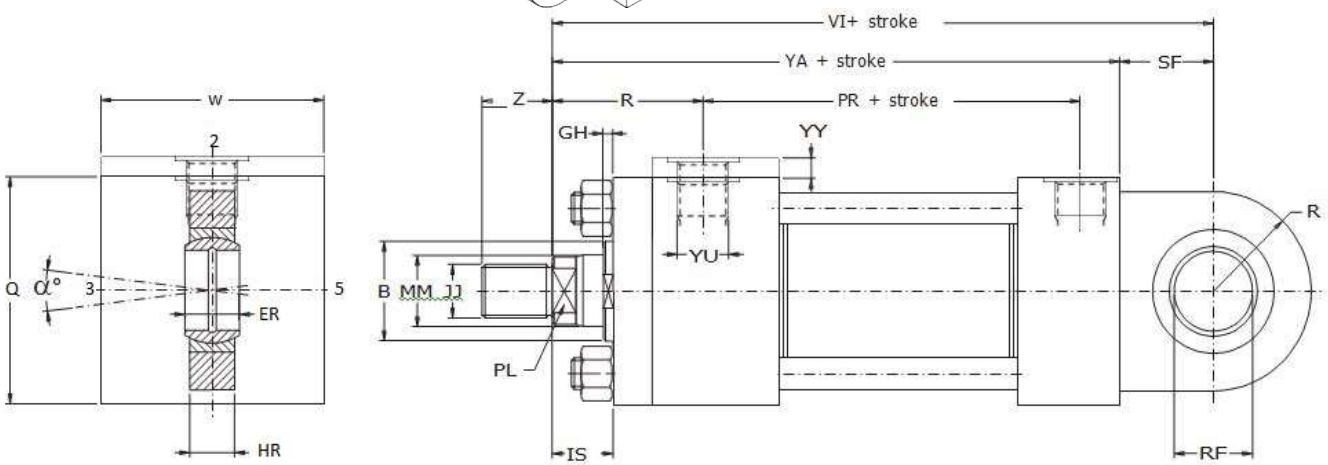
Specified all dimensions are given in millimetres.

Type 09

(ISO MP5)

Rear spherical bearing

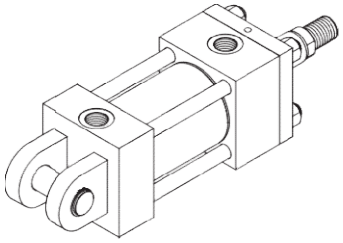




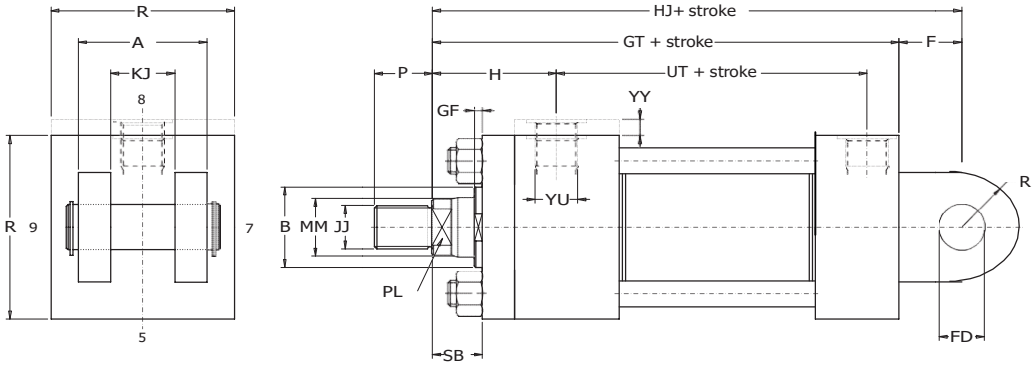
Bore Ø	MM Ø	Z	B^{f8} Ø	PL	YY	E	YU (BSP)	JJ (Metric)	RF^{H7} Ø	EP	EX	SF	R_{max}	PR	GH	VI	IS	R	YA	α°
25	12	14	24	9	5	40	1/4"	M10x1,25	12	8	10	16	20	54	6	130	15	50	114	11
	18	18	30	14				M14x1,5												
32	14	16	26	11	5	45	1/4"	M12x1,25	16	11	14	20	22	57	12	148	25	60	128	10
	18	18	30	14				M14x1,5							6					
	22	22	34	17				M16x1,5							12					
40	18	18	30	14	-	60	3/8"	M14x1,5	20	13	16	25	29	74	6	178	25	62	153	9
	22	22	34	17				M16x1,5							12					
	28	28	42	22				M20x1,5							10					
50	22	22	34	17	-	75	1/2"	M16x1,5	25	17	20	31	33	76	7	190	26	68	159	7
	28	28	42	22				M20x1,5							7					
	36	36	50	30				M27x2							10					
63	28	28	42	22	-	90	1/2"	M20x1,5	30	19	22	38	40	80	7	206	33	71	168	6
	36	36	50	30				M27x2							10					
	45	45	60	36				M33x2							14					
80	36	36	50	30	-	114	3/4"	M27x2	40	23	28	48	50	93	5	238	31	77	190	7
	45	45	60	36				M33x2							9					
	56	56	72	50				M42x2							9					
100	45	45	60	36	-	126	3/4"	M33x2	50	30	35	58	62	101	7	261	35	82	203	6
	56	56	72	50				M42x2							7					
	70	63	88	60				M48x2							10					

Type 10

(ISO MP1)



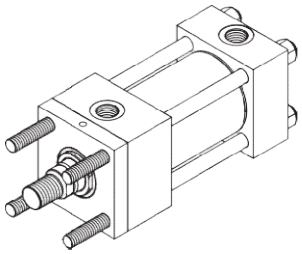
Cap fixed clevis



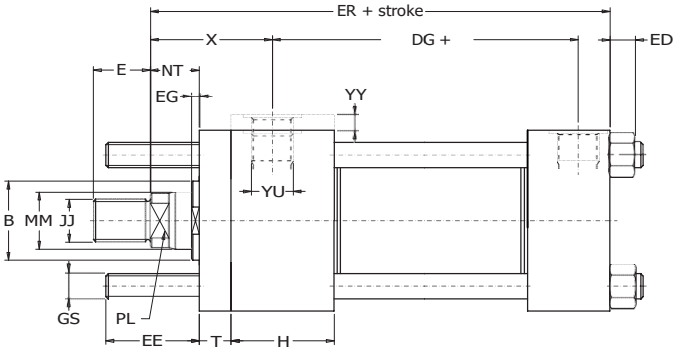
Bore Ø	MM Ø	P	B^{f8} Ø	PL	YY	YU (BSP)	JJ (Metric)	KJ	FD^{H9} Ø	A	R	F	R_{max}	UT	GF	SB	H	HJ	GT
25	12	14	24	9	5	1/4"	M10x1,25	12	10	24	40	13	12	54	6	15	50	127	114
	18	18	30	14			M14x1,5												
32	14	16	26	11	5	1/4"	M12x1,25	16	12	32	45	19	17	57	12	25	60	147	128
	18	18	30	14			M14x1,5								6				
	22	22	34	17			M16x1,5								12				
40	18	18	30	14	-	3/8"	M14x1,5	20	14	40	60	19	17	74	6	25	62	172	153
	22	22	34	17			M16x1,5								12				
	28	28	42	22			M20x1,5								10				
50	22	22	34	17	-	1/2"	M16x1,5	30	20	60	75	32	29	76	7	26	68	191	159
	28	28	42	22			M20x1,5								7				
	36	36	50	30			M27x2								10				
63	28	28	42	22	-	1/2"	M20x1,5	30	20	60	90	32	29	80	7	33	71	200	168
	36	36	50	30			M27x2								10				
	45	45	60	36			M33x2								14				
80	36	36	50	30	-	3/4"	M27x2	40	28	80	114	39	34	93	5	31	77	229	190
	45	45	60	36			M33x2								9				
	56	56	72	50			M42x2								9				
100	45	45	60	36	-	3/4"	M33x2	50	36	100	126	54	50	101	7	35	82	257	203
	56	56	72	50			M42x2								7				
	70	63	88	60			M48x2								10				

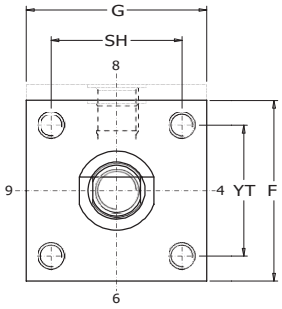
Type 11

(ISO MX3)



Extended front tie rods



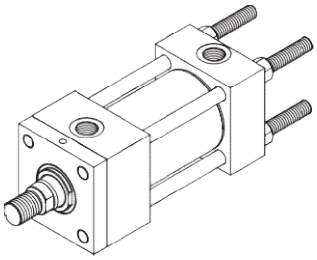


Bore Ø	MM Ø	E	B^{f8} Ø	PL	YY	YU (BSP)	JJ (Metric)	EE	GS (Metric)	F	T	H	NT	ED	DG	YT	EG	X	ER
25	12	14	24	9	5	1/4"	M10x1,25	19	M5x0,8	40	10	45	15	5	54	28,3	6	50	114
	18	18	30	14			M14x1,5												
32	14	16	26	11	5	1/4"	M12x1,25	24	M6x1	45	10	45	25	6	57	33,2	12	60	128
	18	18	30	14			M14x1,5										6		
	22	22	34	17			M16x1,5										12		
40	18	18	30	14	-	3/8"	M14x1,5	35	M8x1	60	10	55	25	8	74	41,7	6	62	153
	22	22	34	17			M16x1,5										12		
	28	28	42	22			M20x1,5										10		
50	22	22	34	17	-	1/2"	M16x1,5	46	M12x1,25	75	15	55	26	12	76	52,3	7	68	159
	28	28	42	22			M20x1,5										7		
	36	36	50	30			M27x2										10		
63	28	28	42	22	-	1/2"	M20x1,5	46	M12x1,25	90	15	55	33	12	80	64,3	7	71	168
	36	36	50	30			M27x2										10		
	45	45	60	36			M33x2										14		
80	36	36	50	30	-	3/4"	M27x2	59	M16x1,5	114	20	65	31	16	93	82,7	5	77	190
	45	45	60	36			M33x2										9		
	56	56	72	50			M42x2										9		
100	45	45	60	36	-	3/4"	M33x2	59	M16x1,5	126	22	69	35	16	101	96,9	7	82	203
	56	56	72	50			M42x2										7		
	70	63	88	60			M48x2										10		

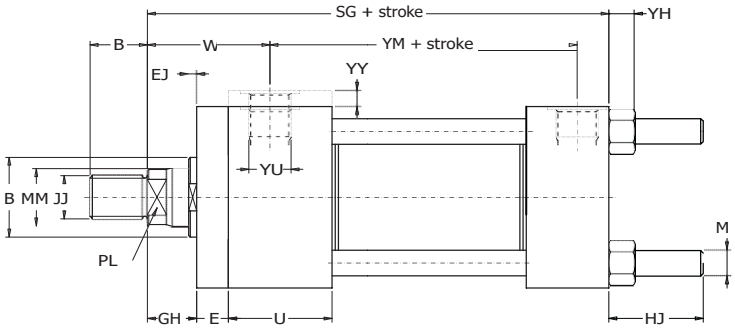
Specified, all dimensions are given in millimetres

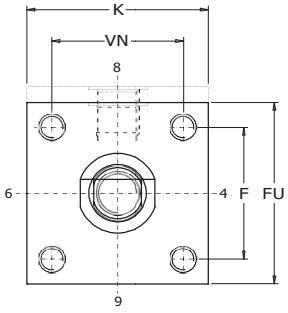
Type 12

(ISO MX2)



Extended rear tie rods



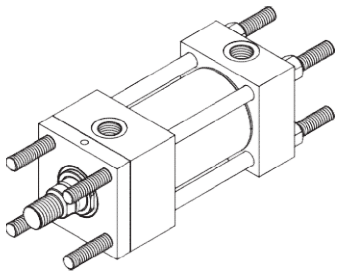


Bore Ø	MM Ø	B	B^{f8} Ø	PL	YY	YU (BSP)	JJ (Metric)	HJ	M (Metric)	K	K	U	GH	YH	YM	VN	EJ	W	SG
25	12	14	24	9	5	1/4"	M10x1,25	19	M5x0,8	40	10	45	15	5	54	28,3	6	50	114
	18	18	30	14			M14x1,5												
32	14	16	26	11	5	1/4"	M12x1,25	24	M6x1	45	10	45	25	6	57	33,2	12	60	128
	18	18	30	14			M14x1,5										6		
	22	22	34	17			M16x1,5										12		
40	18	18	30	14	-	3/8"	M14x1,5	35	M8x1	60	10	55	25	8	74	41,7	6	62	153
	22	22	34	17			M16x1,5										12		
	28	28	42	22			M20x1,5										10		
50	22	22	34	17	-	1/2"	M16x1,5	46	M12x1,25	75	15	55	26	12	76	52,3	7	68	159
	28	28	42	22			M20x1,5										7		
	36	36	50	30			M27x2										10		
63	28	28	42	22	-	1/2"	M20x1,5	46	M12x1,25	90	15	55	33	12	80	64,3	7	71	168
	36	36	50	30			M27x2										10		
	45	45	60	36			M33x2										14		
80	36	36	50	30	-	3/4"	M27x2	59	M16x1,5	114	20	65	31	16	93	82,7	5	77	190
	45	45	60	36			M33x2										9		
	56	56	72	50			M42x2										9		
100	45	45	60	36	-	3/4"	M33x2	59	M16x1,5	126	22	69	35	16	101	96,9	7	82	203
	56	56	72	50			M42x2										7		
	70	63	88	60			M48x2										10		

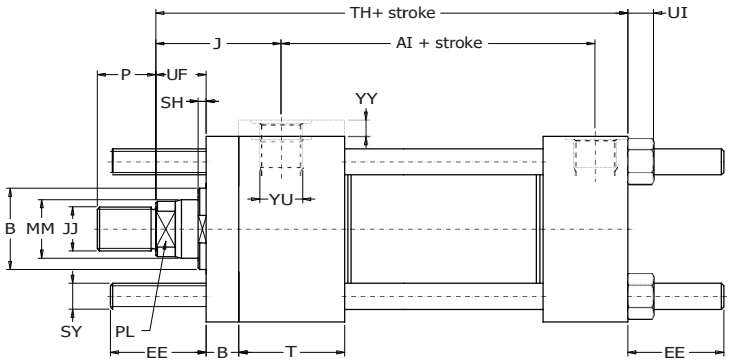
Specified all dimensions are in millimeters

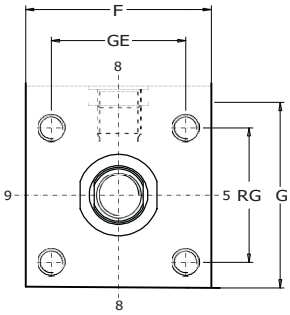
Type 13

(ISO MX1)



Tie rods extended on both ends

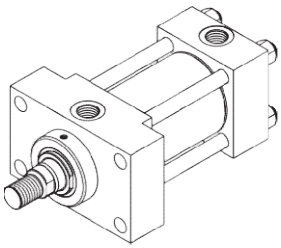




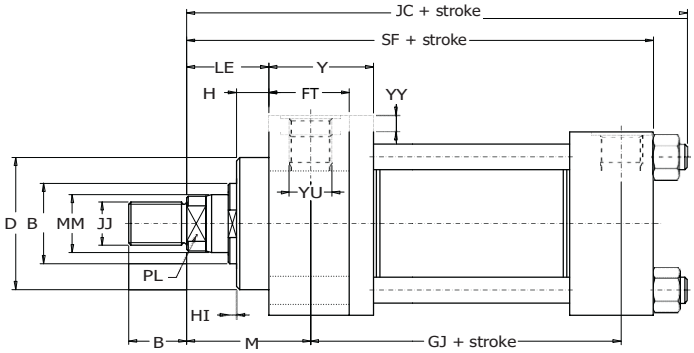
Bore Ø	MM Ø	P	B^{f8} Ø	PL	YY	YU (BSP)	JJ (Metric)	EE	SY (Metric)	F	B	T	UF	UI	AI	RG	SH	J	TH
25	12	14	24	9	5	1/4"	M10x1,25	19	M5x0,8	40	10	45	15	5	54	28,3	6	50	114
	18	18	30	14			M14x1,5												
32	14	16	26	11	5	1/4"	M12x1,25	24	M6x1	45	10	45	25	6	57	33,2	12	60	128
	18	18	30	14			M14x1,5										6		
	22	22	34	17			M16x1,5										12		
40	18	18	30	14	-	3/8"	M14x1,5	35	M8x1	60	10	55	25	8	74	41,7	6	62	153
	22	22	34	17			M16x1,5										12		
	28	28	42	22			M20x1,5										10		
50	22	22	34	17	-	1/2"	M16x1,5	46	M12x1,25	75	15	55	26	12	76	52,3	7	68	159
	28	28	42	22			M20x1,5										7		
	36	36	50	30			M27x2										10		
63	28	28	42	22	-	1/2"	M20x1,5	46	M12x1,25	90	15	55	33	12	80	64,3	7	71	168
	36	36	50	30			M27x2										10		
	45	45	60	36			M33x2										14		
80	36	36	50	30	-	3/4"	M27x2	59	M16x1,5	114	20	65	31	16	93	82,7	5	77	190
	45	45	60	36			M33x2										9		
	56	56	72	50			M42x2										9		
100	45	45	60	36	-	3/4"	M33x2	59	M16x1,5	126	22	69	35	16	101	96,9	7	82	203
	56	56	72	50			M42x2										7		
	70	63	88	60			M48x2										10		

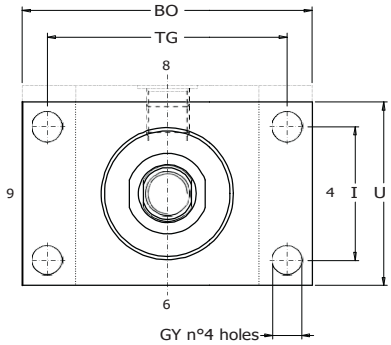
HYDRAULIC CYLINDERS AS PER ISO 6020/2

Type 14
(ISO ME5)



Head flange



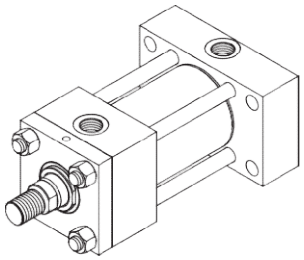


Bore Ø	MM Ø	B	B^{f8} Ø	PL	YY	U	YU (BSP)	JJ (Metric)	Y	GY	H	FT	GJ	D^{f8} Ø	I	TG	BO max	HI	LE	M	JC max	SF
25	12	14	24	9	5	40	1/4"	M10x1,25	45	5,5	10	35	54	38	27	51	64	6	25	50	121	114
	18	18	30	14				M14x1,5														
32	14	16	26	11	5	45	1/4"	M12x1,25	45	6,6	10	36	57	42	33	58	70	12	35	60	137	128
	18	18	30	14				M14x1,5										6				
	22	22	34	17				M16x1,5										12				
40	18	18	30	14	-	60	3/8"	M14x1,5	55	11	10	45	74	62	41	87	110	6	35	62	166	153
	22	22	34	17				M16x1,5										12				
	28	28	42	22				M20x1,5										10				
50	22	22	34	17	-	75	1/2"	M16x1,5	55	14	16	45	76	74	52	105	130	7	41	68	176	159
	28	28	42	22				M20x1,5										7				
	36	36	50	30				M27x2										10				
63	28	28	42	22	-	90	1/2"	M20x1,5	55	14	16	45	80	75	65	117	142	7	48	71	185	168
	36	36	50	30				M27x2						88				10				
	45	45	60	36				M33x2						88				14				
80	36	36	50	30	-	114	3/4"	M27x2	65	18	20	50	93	82	83	149	180	5	51	77	212	190
	45	45	60	36				M33x2						105				9				
	56	56	72	50				M42x2						105				9				
100	45	45	60	36	-	126	3/4"	M33x2	69	18	22	50	101	92	97	162	200	7	57	82	225	203
	56	56	72	50				M42x2						125				7				
	70	63	88	60				M48x2						125				10				

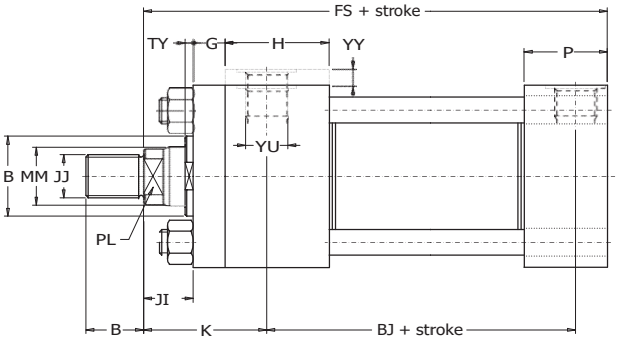
Specified, all dimensions are given in millimetres

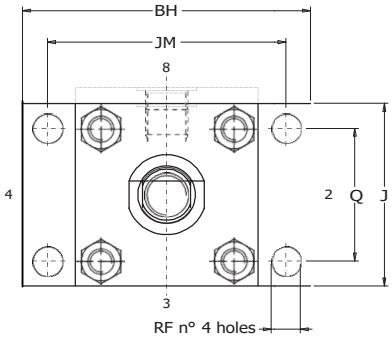
Type 15

(ISO ME6)



Cap flange





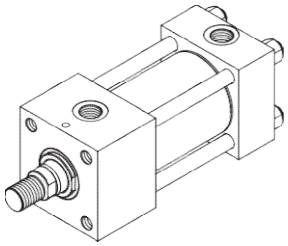
Bore Ø	MM Ø
25	12
	18
32	14
	18
	22
40	18
	22
	28
50	22
	28
	36
63	28
	36
	45
80	36
	45
	56
100	45
	56
	70

B	B^{f8} Ø	PL	Y Y	J	YU (BSP)	G	RF	H	P	JJ (Metric)	BJ	Q	JM	BH max	TY	JI	K	FS
14	24	9	5	40	1/4"	10	5,5	45	35	M10x1,25	54	27	51	64	6	15	50	114
18	30	14								M14x1,5								
16	26	11	5	45	1/4"	10	6,6	45	36	M12x1,25	57	33	58	70	12	25	60	128
18	30	14								M14x1,5					6			
22	34	17								M16x1,5					12			
18	30	14	-	60	3/8"	10	11	55	45	M14x1,5	74	41	87	110	6	25	62	153
22	34	17								M16x1,5					12			
28	42	22								M20x1,5					10			
22	34	17	-	75	1/2"	15	14	55	45	M16x1,5	76	52	105	130	7	26	68	159
28	42	22								M20x1,5					7			
36	50	30								M27x2					10			
28	42	22	-	90	1/2"	15	14	55	45	M20x1,5	80	65	117	142	7	33	71	168
36	50	30								M27x2					10			
45	60	36								M33x2					14			
36	50	30	-	114	3/4"	20	18	65	52	M27x2	93	83	149	180	5	31	77	190
45	60	36								M33x2					9			
56	72	50								M42x2					9			
45	60	36	-	126	3/4"	22	18	69	55	M33x2	101	97	162	200	7	35	82	203
56	72	50								M42x2					7			
63	88	60								M48x2					10			

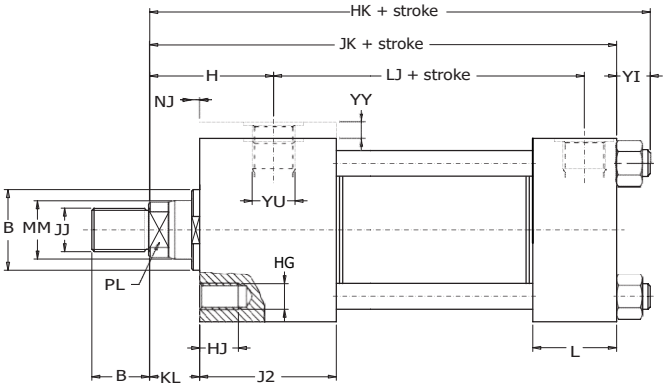
Specified all dimensions are given in millimetres.

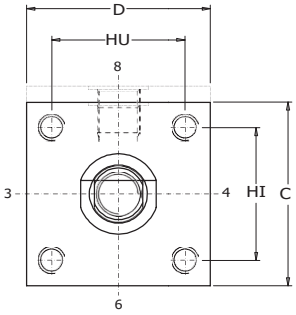
Type 16

(ISO MX5)



Front screwed tapped holes



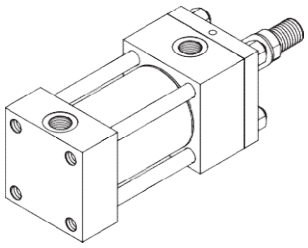


Bore Ø	MM Ø	B	B f8 Ø	PL	YY	HJ	C	YU (BSP)	J2	L	YI	JJ (Metric)	LJ	HG (Metric)	HU	NJ	KL	H	HK max	JK
25	12	14	24	9	5	8	40	1/4"	55	35	7	M10x1,25	54	M5x0,8	28,3	6	15	50	121	114
	18	18	30	14								M14x1,5								
32	14	16	26	11	5	9	45	1/4"	55	36	9	M12x1,25	57	M6x1	33,2	12	25	60	137	128
	18	18	30	14								M14x1,5				6				
	22	22	34	17								M16x1,5				12				
40	18	18	30	14	-	12	60	3/8"	65	45	13	M14x1,5	74	M8x1,25	41,7	6	25	62	166	153
	22	22	34	17								M16x1,5				12				
	28	28	42	22								M20x1,5				10				
50	22	22	34	17	-	18	75	1/2"	70	45	17	M16x1,5	76	M12x1,75	52,3	7	26	68	176	159
	28	28	42	22								M20x1,5				7				
	36	36	50	30								M27x2				10				
63	28	28	42	22	-	18	90	1/2"	70	45	17	M20x1,5	80	M12x1,75	64,3	7	33	71	185	168
	36	36	50	30								M27x2				10				
	45	45	60	36								M33x2				14				
80	36	36	50	30	-	24	114	3/4"	85	52	22	M27x2	93	M16x2	82,7	5	31	77	212	190
	45	45	60	36								M33x2				9				
	56	56	72	50								M42x2				9				
100	45	45	60	36	-	24	126	3/4"	91	55	22	M33x2	101	M16x2	96,9	7	35	82	225	203
	56	56	72	50								M42x2				7				
	70	63	88	60								M48x2				10				

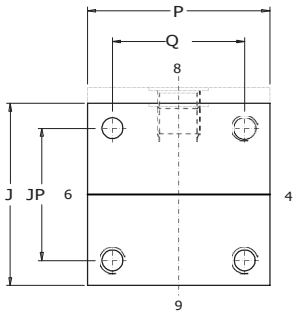
Specified all dimensions are in millimeters

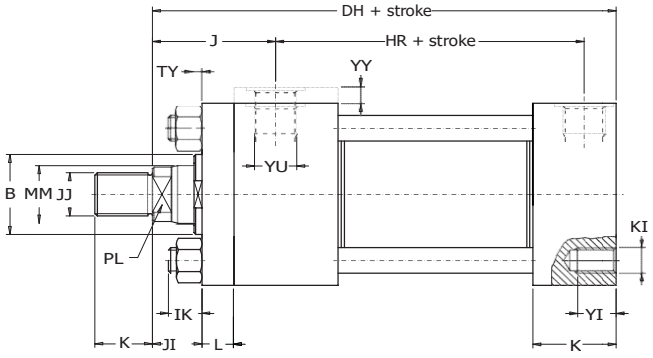
Type 17

(ISO MX6)



Rear screwed tapped holes

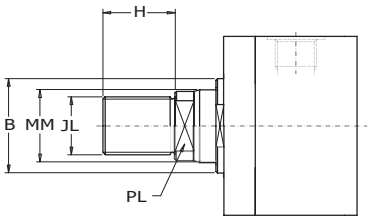




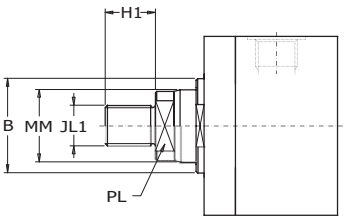
Bore Ø	MM Ø	K	B f8 Ø	PL	YY	YI	P	L	YU (BSP)	K	IK	JJ (Metric)	HR	KI (Metric)	Q	TY	JI	J	BZ_{max}	DH
25	12	14	24	9	5	8	40	10	1/4"	35	7	M10x1,25	54	M5x0,8	28,3	6	15	50	121	114
	18	18	30	14								M14x1,5								
32	14	16	26	11	5	9	45	10	1/4"	36	9	M12x1,25	57	M6x1	33,2	12	25	60	137	128
	18	18	30	14								M14x1,5				6				
	22	22	34	17								M16x1,5				12				
40	18	18	30	14	-	12	60	10	3/8"	45	13	M14x1,5	74	M8x1,25	41,7	6	25	62	166	153
	22	22	34	17								M16x1,5				12				
	28	28	42	22								M20x1,5				10				
50	22	22	34	17	-	18	75	15	1/2"	45	17	M16x1,5	76	M12x1,75	52,3	7	26	68	176	159
	28	28	42	22								M20x1,5				7				
	36	36	50	30								M27x2				10				
63	28	28	42	22	-	18	90	15	1/2"	45	17	M20x1,5	80	M12x1,75	64,3	7	33	71	185	168
	36	36	50	30								M27x2				10				
	45	45	60	36								M33x2				14				
80	36	36	50	30	-	24	114	20	3/4"	52	22	M27x2	93	M16x2	82,7	5	31	77	212	190
	45	45	60	36								M33x2				9				
	56	56	72	50								M42x2				9				
100	45	45	60	36	-	24	126	22	3/4"	55	22	M33x2	101	M16x2	96,9	7	35	82	225	203
	56	56	72	50								M42x2				7				
	70	63	88	60								M48x2				10				

DIMENSIONS OF ROD ENDS

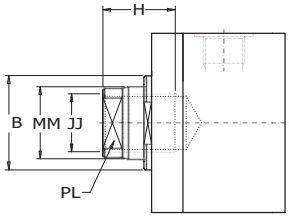
Standard thread rod end



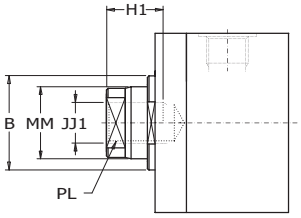
Style x: light male thread rod end



Style w: female thread rod end



Style y: Light female thread rod end



Bore Ø	MM Ø	H	H1	B f8 Ø	PL	JL (Metric)	JL1 (Metric)	JJ (Metric)	JJ1 (Metric)
25	12	14	14	24	9	M10x1,25	M10x1,25	M8x1	M8x1
	18	18	14	30	14	M14x1,5	M10x1,25	M12x1,25	M8x1
32	14	16	16	26	11	M12x1,25	M12x1,25	M10x1,25	M10x1,25
	18	18	14	30	14	M14x1,5	M10x1,25	M12x1,25	M8x1
	22	22	16	34	17	M16x1,5	M12x1,25	M16x1,5	M10x1,25
40	18	18	14	30	14	M14x1,5	M10x1,25	M12x1,25	M8x1
	22	22	16	34	17	M16x1,5	M12x1,25	M16x1,5	M10x1,25
	28	28	18	42	22	M20x1,5	M14x1,5	M20x1,5	M12x1,25
50	22	22	16	34	17	M16x1,5	M12x1,25	M16x1,5	M10x1,25
	28	28	18	42	22	M20x1,5	M14x1,5	M20x1,5	M12x1,25
	36	36	22	50	30	M27x2	M16x1,5	M27x2	M16x1,5
63	28	28	18	42	22	M20x1,5	M14x1,5	M20x1,5	M12x1,25
	36	36	22	50	30	M27x2	M16x1,5	M27x2	M16x1,5
	45	45	28	60	36	M33x2	M20x1,5	M33x2	M20x1,5
80	36	36	22	50	30	M27x2	M16x1,5	M27x2	M16x1,5
	45	45	28	60	36	M33x2	M20x1,5	M33x2	M20x1,5
	56	56	36	72	50	M42x2	M27x2	M42x2	M27x2
100	45	45	28	60	36	M33x2	M20x1,5	M33x2	M20x1,5
	56	56	36	72	50	M42x2	M27x2	M42x2	M27x2
	70	63	45	88	60	M48x2	M33x2	M48x2	M33x2

All dimensions are given in millimetres.

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THANK YOU