Power Steering Units

EL-H1 / EL-H1LR / EL-H8

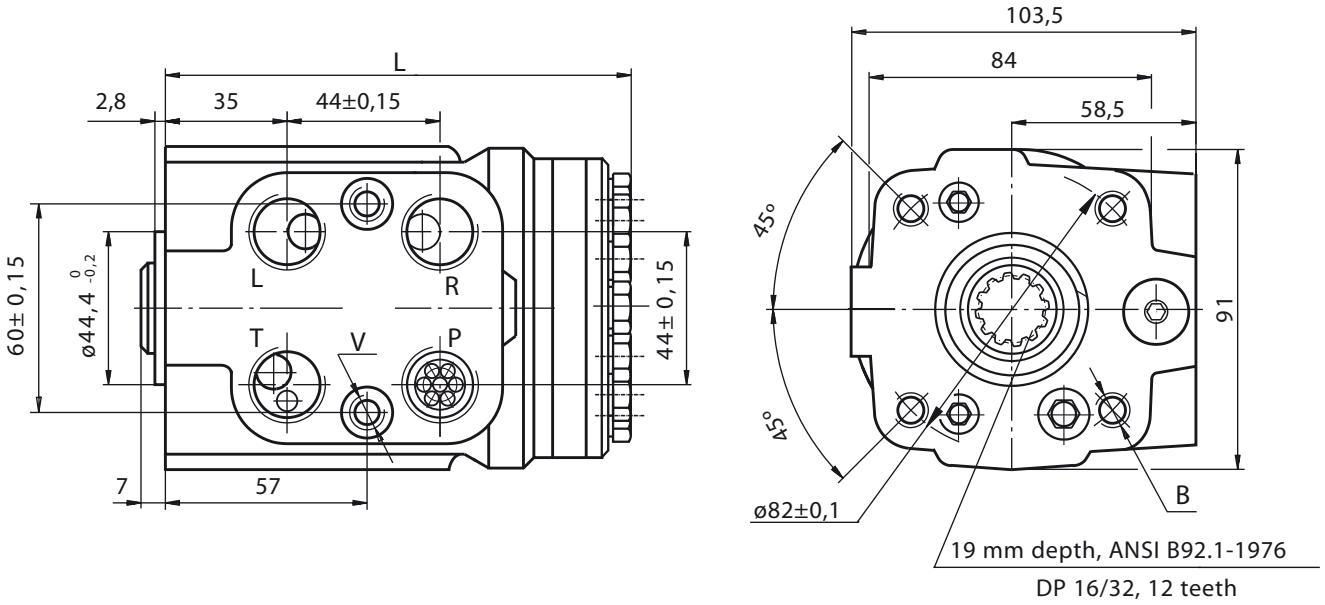
TECHNICAL SPECIFICATION

Open center, non load reaction (EL-H1 and EL-H8) / load reaction (EL-H1LR)

		Model										
	EL-H1 EL-H1LR EL-H8	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**	**320**	**400**
Displacement	$cm^3\ rev^{-1}$	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8	396
Rated flow	$L\ min^{-1}$	4	5	6	9	9	12	12	17	24	30	40
Rated pressure	bar	160										
Pressure settings **• relief valve** **• shock valves**	bar	80, 100, 125, 150 140, 160, 180, 200										
Maximum continuous pressure in line T - P_T	bar	25 (50 for EL-H/8)										
Maximum torque **• with servoamplifying** **• w/o servoamplifying**	Nm	6 (by P_T max) 120										
Dimensions L	mm	130,8	132,2	133,9	136,2	138,8	142,2	146,8	152,2	158,8	168,2	178,8
Weight	kg	5,3	5,5	5,6	5,7	5,8	5,9	6,2	6,5	6,6	7,2	7,8

EL-H1 / EL-H1LR / EL-H8

DRAWINGS



THREADED PORTS

code	Ports*-P,T,R,L Thread	Column Mounting Thread - B	Valve Mounting Thread - V
-	G1/2 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth
A	3/4 - 16 UNF O-ring 17 mm depth	4x 3/8 - 16 UNC 15,7 mm depth	2 x 3/8 - 24 UNF 14,2 mm depth
M	M22x1,5 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth

*Threaded Port P min 16 mm depth.

EL-H3 / EL-H4

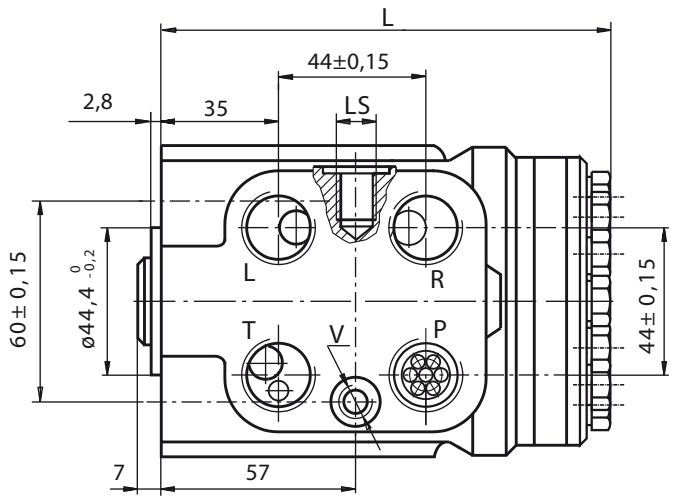
TECHNICAL SPECIFICATION

Closed center, non load reaction and load sensing outlet, pipe mounting (EL-H3) / modulary mounting (EL-H4)

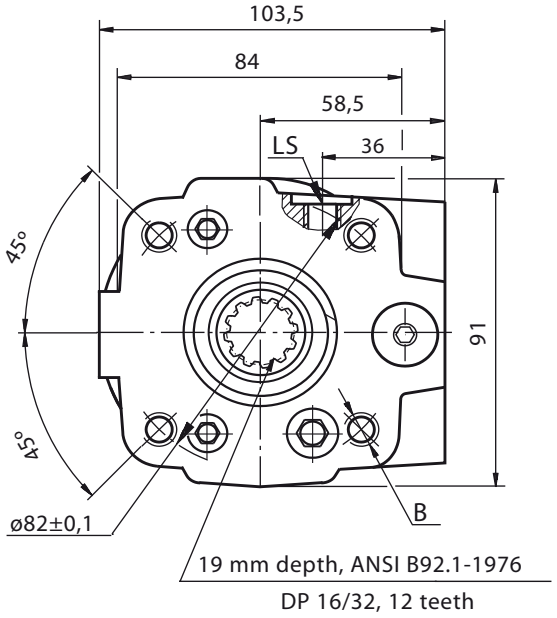
		Model									
	EL-H3 EL-H4	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**	**320**
Displacement	$cm^3\ rev^{-1}$	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8
Rated flow	$L\ min^{-1}$	4	5	6	9	9	12	9	17	24	30
Rated pressure	bar	125	150	175	175	175	175	175	175	175	175
Pressure settings **• relief valve** **• shock valves**	bar	80, 100, 125, 150, 175 140, 160, 180, 200, 240									
Maximum continuous pressure in line T - P_T	bar	20									
Maximum torque **• with servoamplifying** **• w/o servoamplifying**	Nm	6 (by P_T max) 120									
Dimensions L	mm	130,8	132,2	133,9	136,2	138,8	142,2	146,8	152,2	158,8	168,2
Weight	kg	5,4	5,5	5,6	5,7	5,8	5,9	6,2	6,5	6,6	7,2

DRAWINGS (EL-H3)

Without electric signal connection



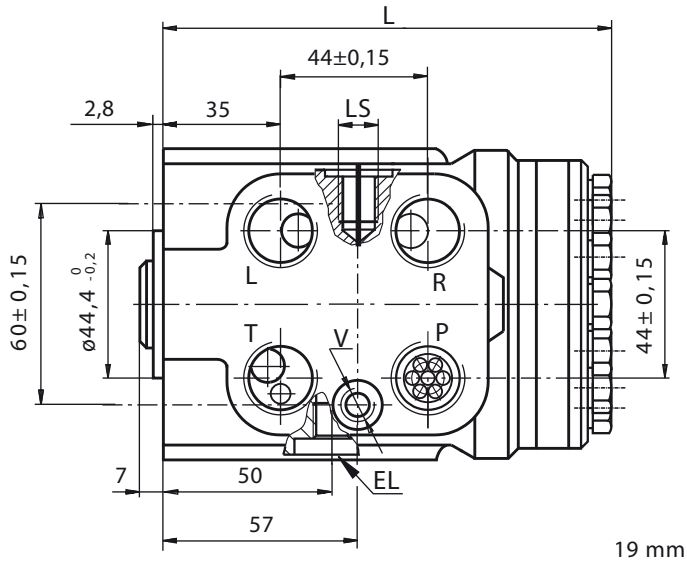
With electric signal connection



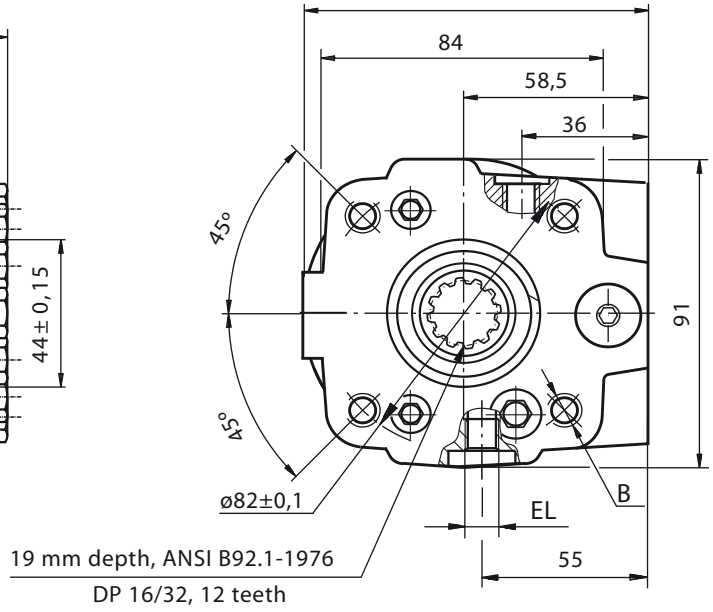
EL-H3 / EL-H4

DRAWINGS (EL-H3E)

Without electric signal connection

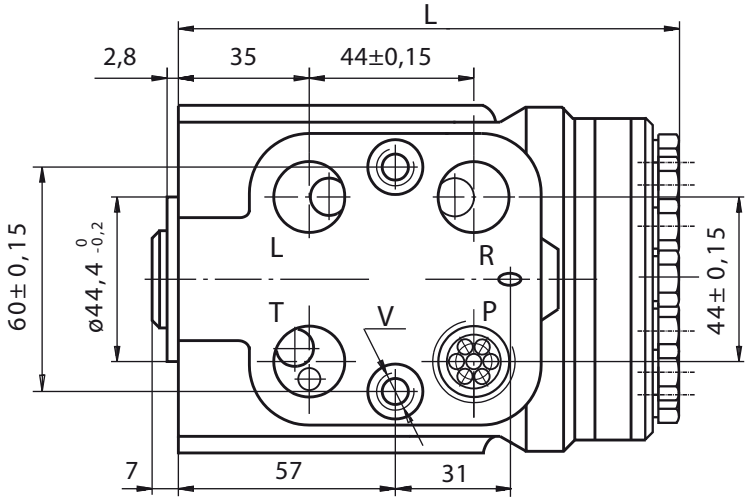


With electric signal connection

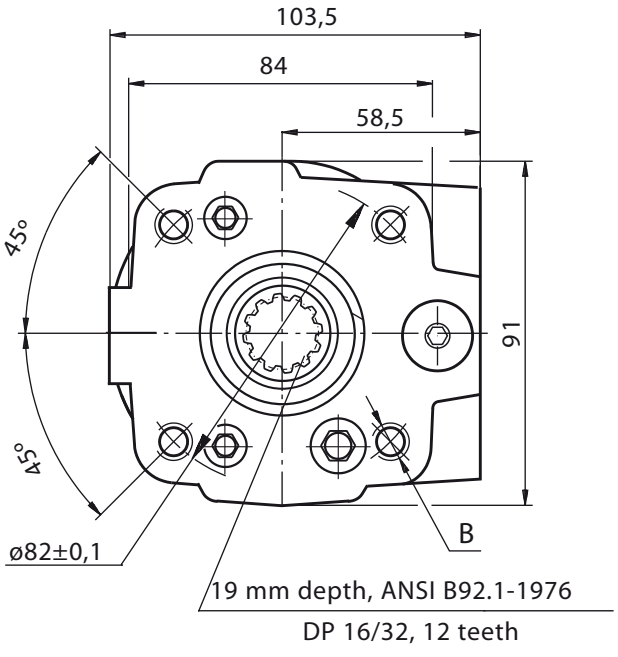


DRAWINGS (EL-H4)

Without electric signal connection



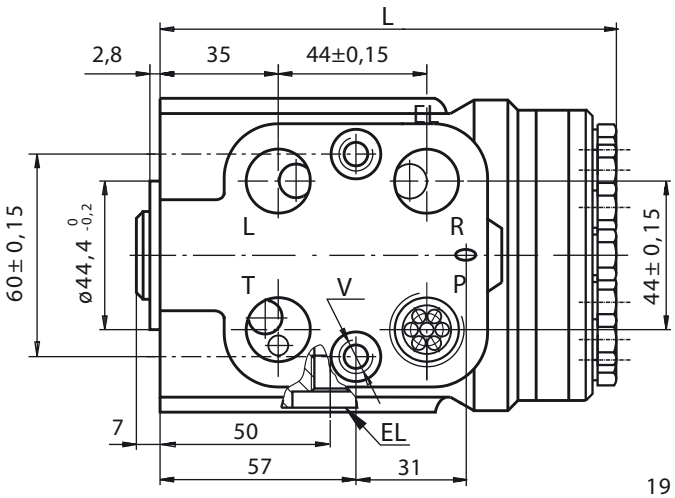
With electric signal connection



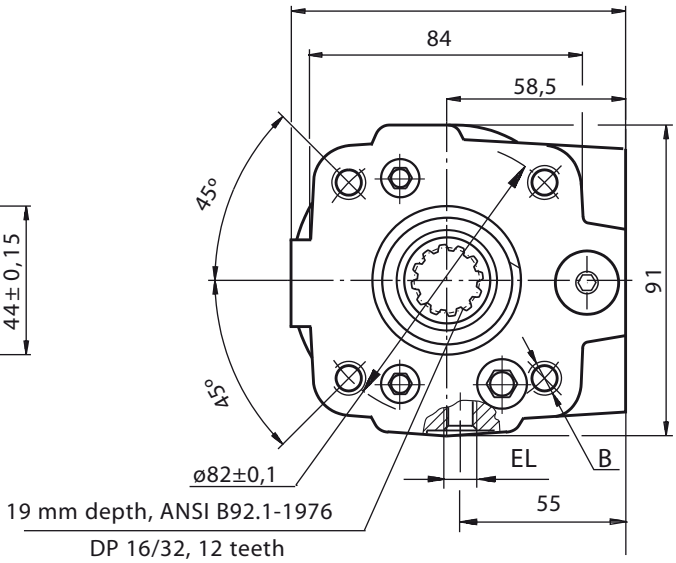
EL-H3 / EL-H4

DRAWINGS (EL-H4E)

Without electric signal connection



With electric signal connection



THREADED PORTS

code	Ports - *P, T, R, L Thread	Column Mounting Thread - B	Valve Mounting Thread- V	LS - Port	EL - Port
-	G1/2 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth	G1/4 14 mm depth	M10x1 10 mm depth
A	3/4 - 16 UNF O-ring 17 mm depth	4 x 3/8 - 16 UNC 15,7 mm depth	2 x 3/8 - 24 UNF 14,2 mm depth	7/16 - 20 UNF O-ring 12,7 mm depth	7/16 - 20 UNF O-ring 12,7 mm depth
M	M22x1,5 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth	G1/4 14 mm depth	M10x1 10 mm depth

*Threaded Port P min 16 mm.

EL-H0

TECHNICAL SPECIFICATION

Open center, non load reaction (EL-H0) / load reaction (EL-H0LR)

		Model														
	EL-H0	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**	**320**	**400**	**500**	**630**	**800**	**1000**
	EL-H0LR	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**	**320**	**400**				
Displacement	$cm^3\ rev^{-1}$	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8	396	495	618,7	793	990
Rated flow	$L\ min^{-1}$	4	5	6	9	9	12	12	17	24	30	40	50	63	80	80
Rated pressure	bar	160	160	160	160	160	160	160	160	160	160	160	160	140	140	100
Maximum continuous pressure in line T - P_T	bar	25														
Maximum torque																
• with servoamplifying	Nm	6 (by P_T max)														
• w/o servoamplifying		120														
Dimensions L	mm	130,8	132,2	133,9	136,2	138,8	142,2	146,8	152,2	158,8	168,2	178,8	192	209,3	232,2	258,6
Weight	kg	5,3	5,4	5,5	5,6	5,7	5,8	6,0	6,3	6,5	7,0	7,4	8,0	8,7	9,6	10,6

Closed center, non load reaction (EL-H0C)

		Model													
	EL-H0C	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**	**320**	**400**	**500**	**630**	**800**
Displacement	$cm^3\ rev^{-1}$	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8	396	495	618,7	793
Rated flow	$L\ min^{-1}$	4	5	6	9	9	12	12	17	24	30	40	50	63	80
Rated pressure	bar	175													
Maximum continuous pressure in line T - P_T	bar	20													
Maximum torque															
• with servoamplifying	Nm	6 (by P_T max)													
• w/o servoamplifying		120													
Dimensions L	mm	130,8	132,2	133,9	136,2	138,8	142,2	146,8	152,2	158,8	168,2	178,8	192	209,3	232,2
Weight	kg	5,3	5,4	5,5	5,6	5,7	5,8	6,0	6,3	6,5	7,0	7,4	8,0	8,7	9,6

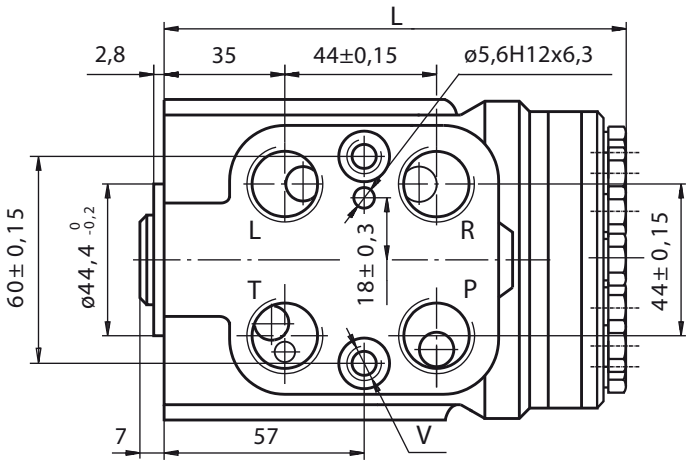
EL-H0

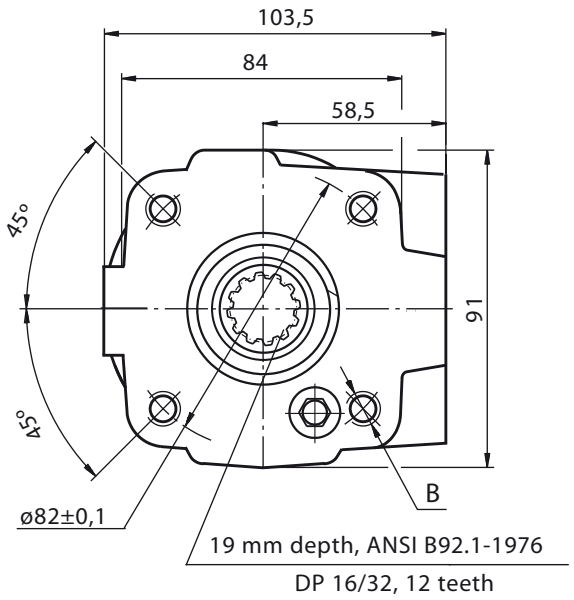
TECHNICAL SPECIFICATION

Closed center, non load reaction, load sensing outlet (EL-H0CLS)

		Model												
	EL-H0CLS	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**	**320**	**400**	**500**	**630**
Displacement	$cm^3\ rev^{-1}$	39,6	49,5	65,6	79,2	99,0	123,8	158,4	198	247,5	316,8	396	495	618,7
Rated flow	$L\ min^{-1}$	4	5	6	9	9	12	12	17	24	30	40	50	63
Rated pressure	bar	125	150	175	175	175	175	175	175	175	175	175	175	175
Pressure settings														
• relief valve	bar	80, 100, 125, 150, 175												
• shock valves	bar	140, 160, 180, 200, 240												
Maximum continuous pressure in line T - P_T	bar	20												
Maximum torque														
• with servoamplifying	Nm	6 (by P_T max)												
• w/o servoamplifying	Nm	120												
Dimensions L	mm	130,8	132,2	133,9	136,2	138,8	142,2	146,8	152,2	158,8	168,2	178,8	192	209,3
Weight	kg	5,4	5,5	5,6	5,7	5,8	5,9	6,2	6,5	6,6	7,2	7,8	8	8,7

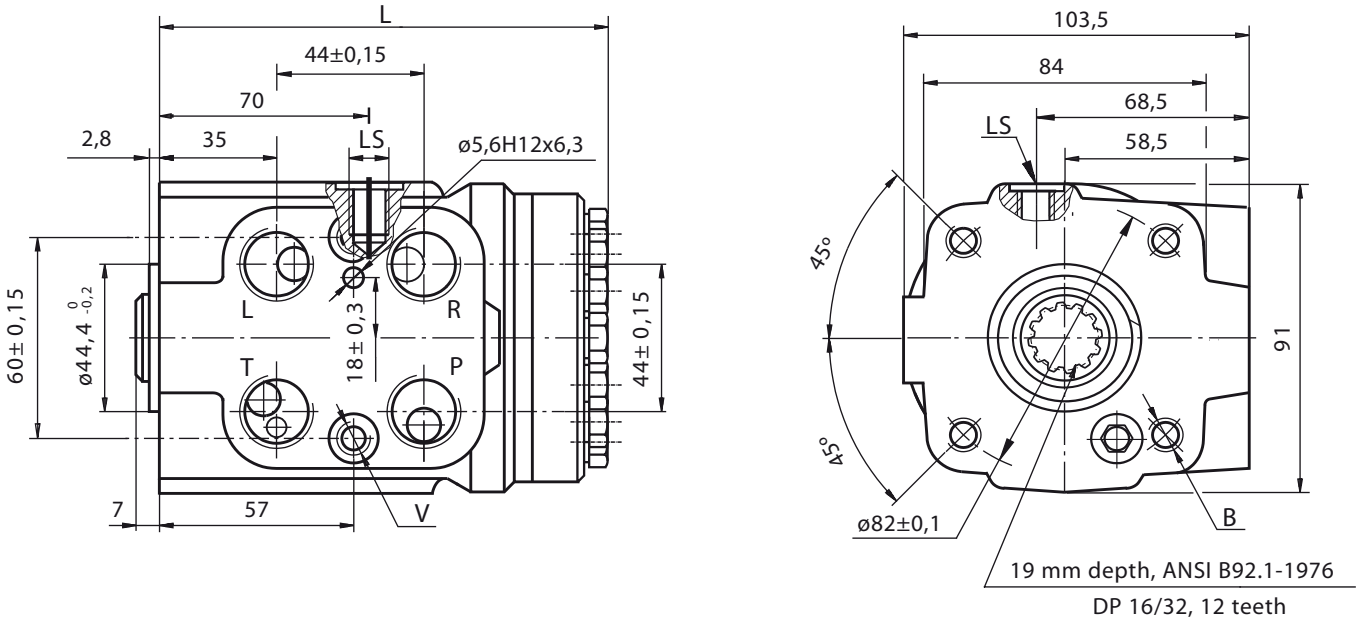
DRAWINGS (EL-H0 / EL-H0C)





EL-H0

DRAWINGS (EL-H0CLS)



THREADED PORTS (EL-H0 / EL-H0C)

code	Ports-P,T,R,L Thread	Column Mounting Thread - B	Valve Mounting Thread - V
-	G1/2 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth
A	3/4 - 16 UNF O-ring 17 mm depth	4x 3/8 - 16 UNC 15,7 mm depth	2 x 3/8 - 24 UNF 14,2 mm depth
M	M22x1,5 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth

EL-H0

THREADED PORTS (EL-H0CLS)

code	Ports - *P, T, R, L Thread	Column Mounting Thread - B	Valve Mounting Thread- V	LS - Port	EL - Port
-	G1/2 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth	G1/4 14 mm depth	M10x1 10 mm depth
A	3/4 - 16 UNF O-ring 17 mm depth	4 x 3/8 - 16 UNC 15,7 mm depth	2 x 3/8 - 24 UNF 14,2 mm depth	7/16 - 20 UNF O-ring 12,7 mm depth	7/16 - 20 UNF O-ring 12,7 mm depth
M	M22x1,5 17 mm depth	4 x M10 18 mm depth	2 x M10x1 16 mm depth	G1/4 14 mm depth	M10x1 10 mm depth

*Threaded Port P min 16 mm.

STEERING COLUMNS FSC

TECHNICAL SPECIFICATION

		Model				
	FSC	**75**	**150**	**400**	**715**	**775**
Dimensions L	mm	75	150	400	715	775
Weight	kg	0,7	1,0	1,5	2,3	2,5

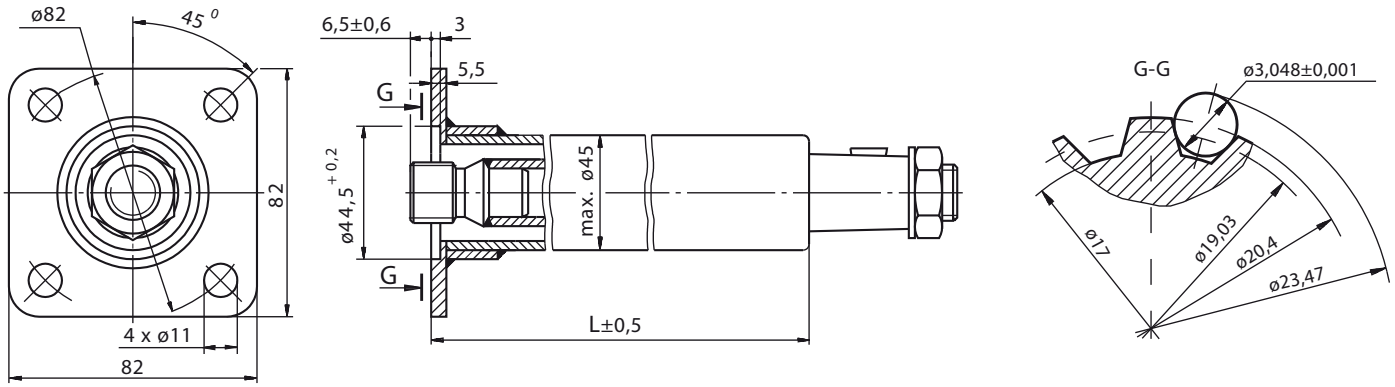
Other lengths available on request.

Permissible loads on the steering column

Max. torque applied to the steering wheel	Nm	240
Max. bending moment		200
Max. axial load	N	1000

The steering column must be additionally supported when the length L exceeds 150 mm.

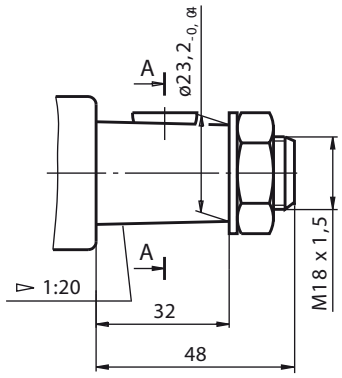
DRAWINGS

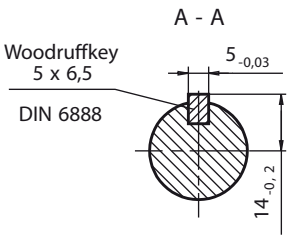


STEERING COLUMNS FSC

SHAFT ENDS

1





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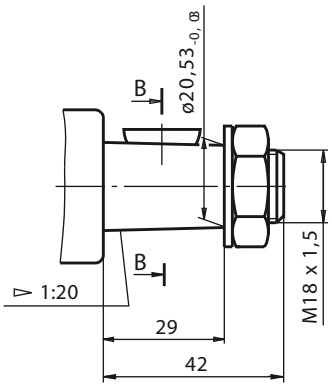

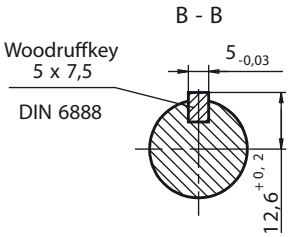

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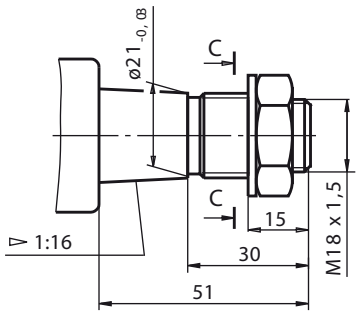

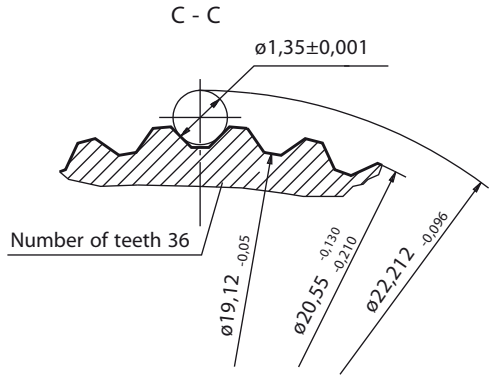

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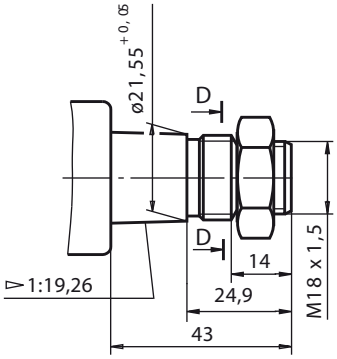
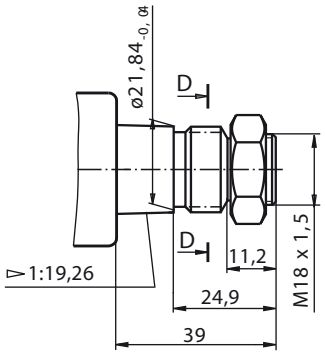
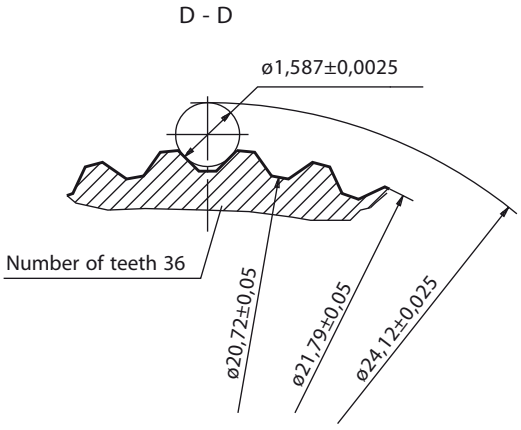


STEERING COLUMNS FSC

SHAFT ENDS

5





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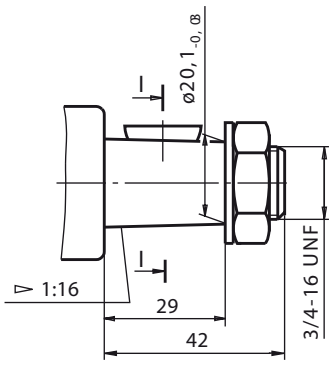

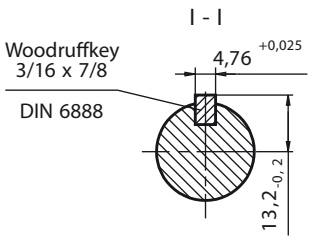

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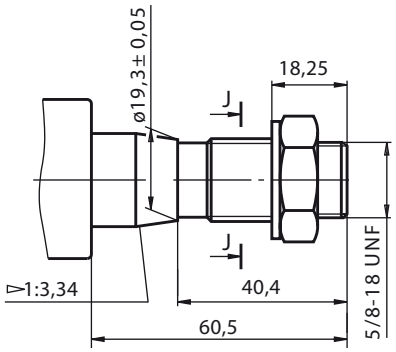

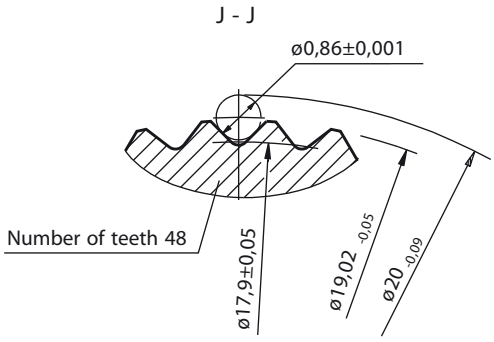

Information contained in this catalogue is accurate as of the publication date and is subject to change without notice.
Performance values are typical values. Customers are responsible for selecting products for their applications using normal engineering methods.

S/PSU/16009

SMIT Hydraulics
Via Pietro Giardini, 318
41100 Modena - ITALY

info@smithydraulics.it
www.smithydraulics.it

PHONE
+39 059 596 77 44 **(Domestic market)**
+39 059 596 77 45 **(International market)**

FAX
+39 059 596 08 80 **(Domestic market)**
+39 059 596 08 88 **(International market)**