



JS / JSSC / JP

GMS

hydraulic

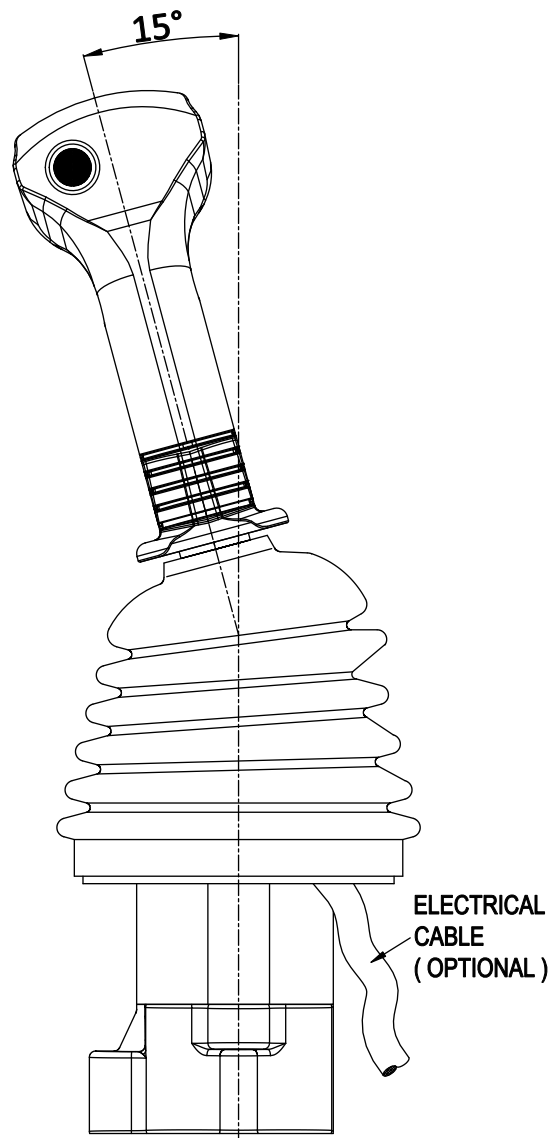
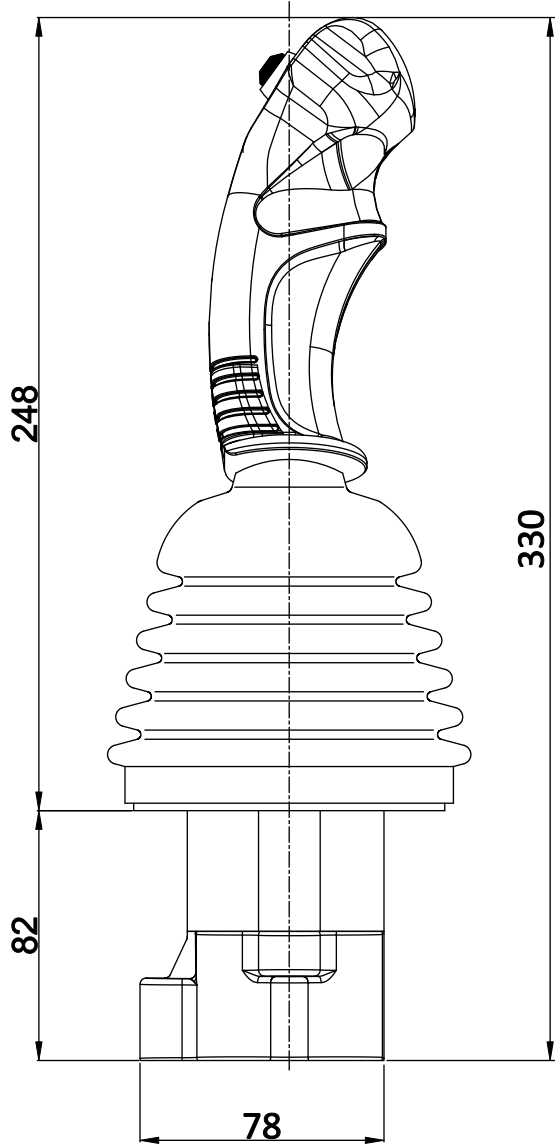
JS100: 1 Axis Cable Control Joystick

JS200: 2 Axis Cable Control Joystick

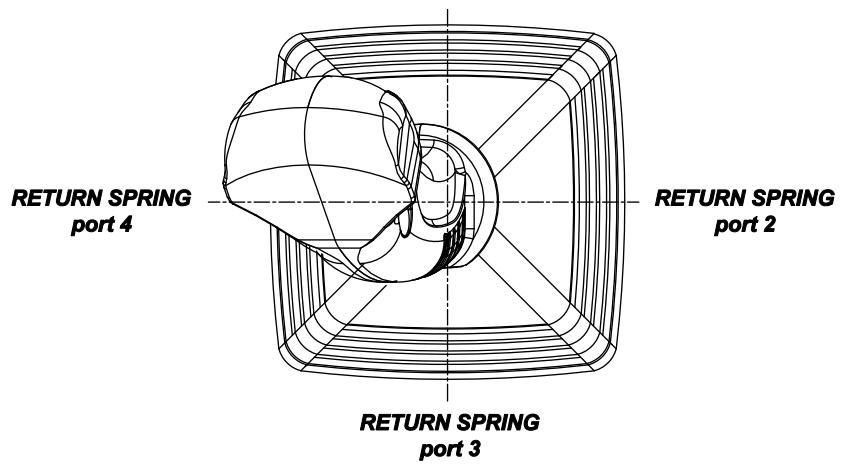
JSSC100: 1 Axis Hydraulic Pilot Valve

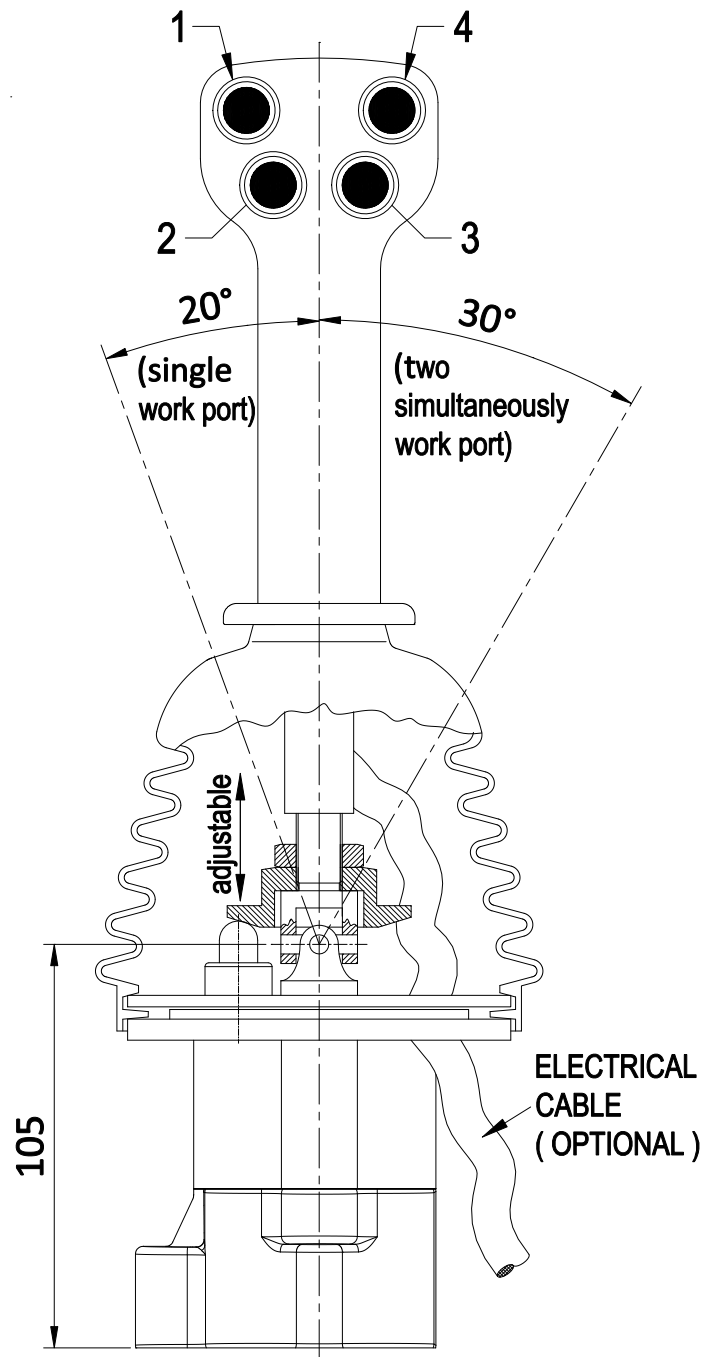
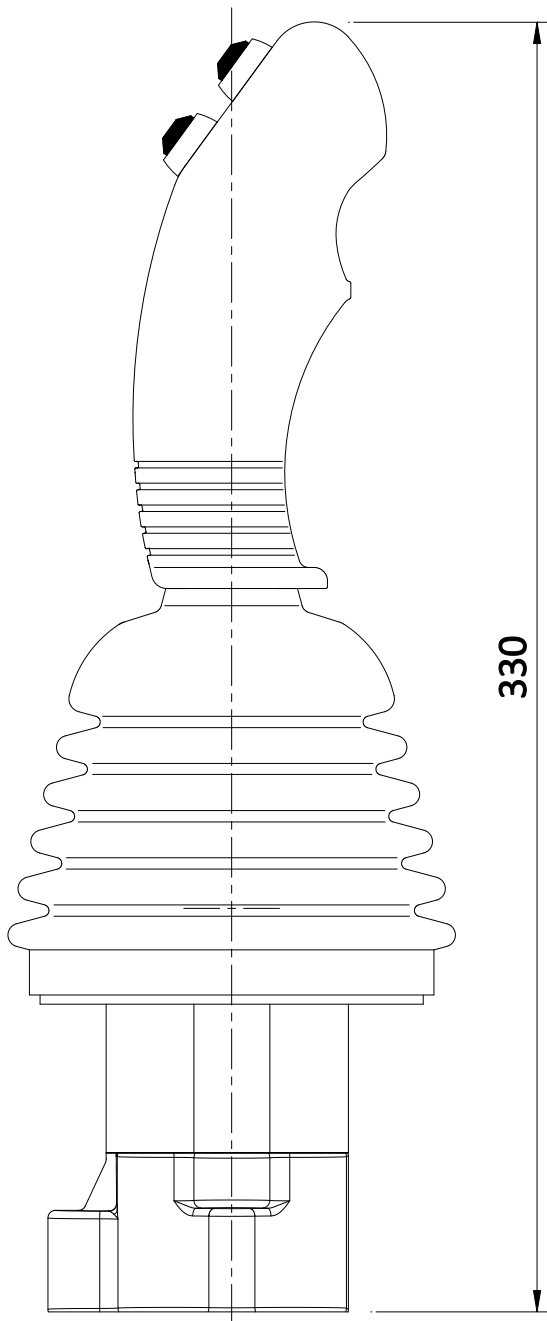
JSSC400: 2 Axis Hydraulic Pilot Valve

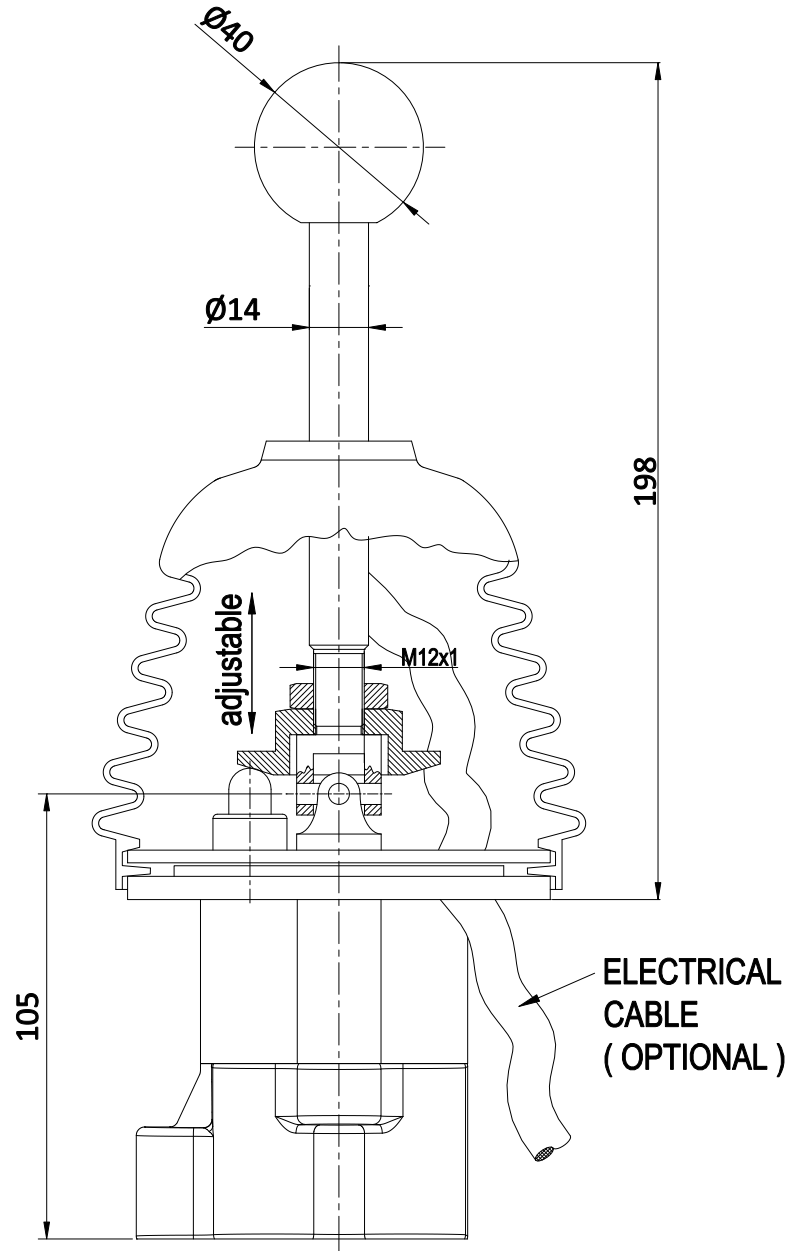
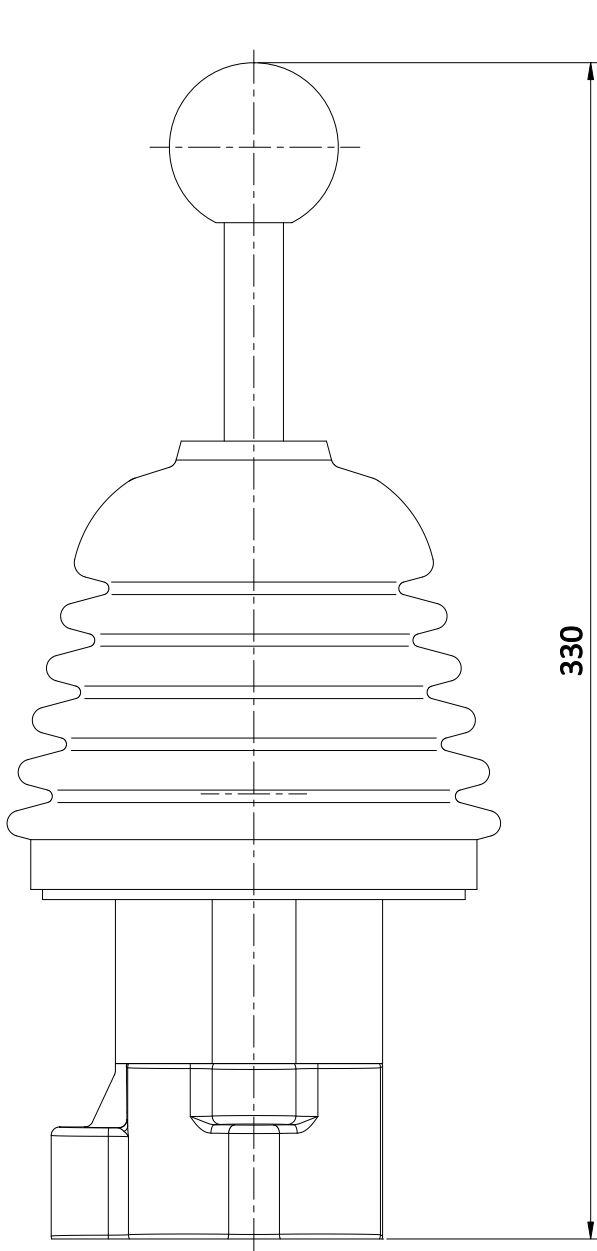
JP100: 1 Axis Pneumatic Pilot Valve

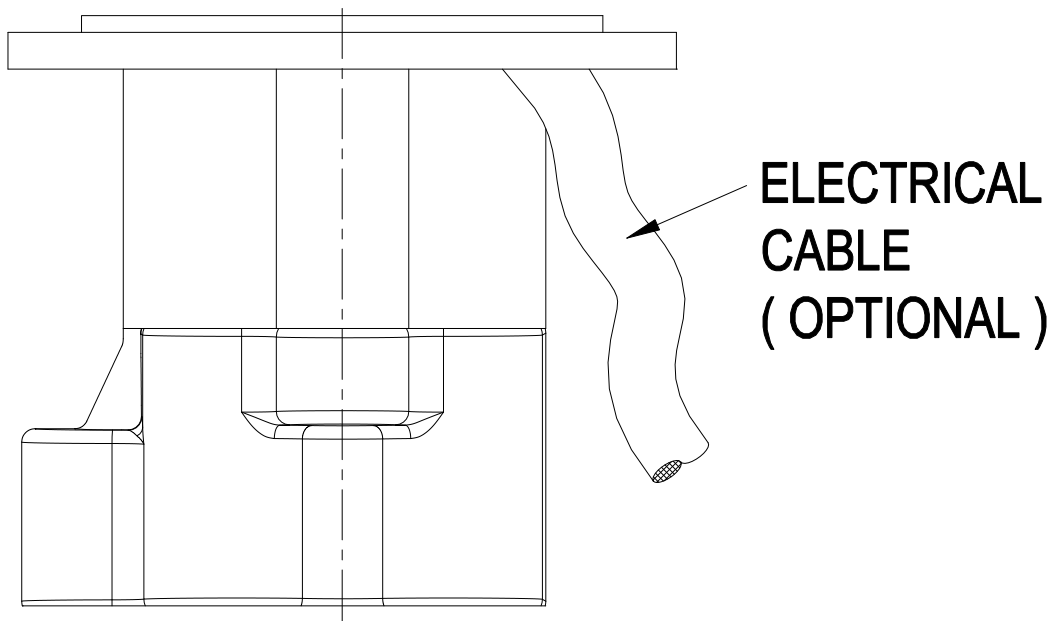
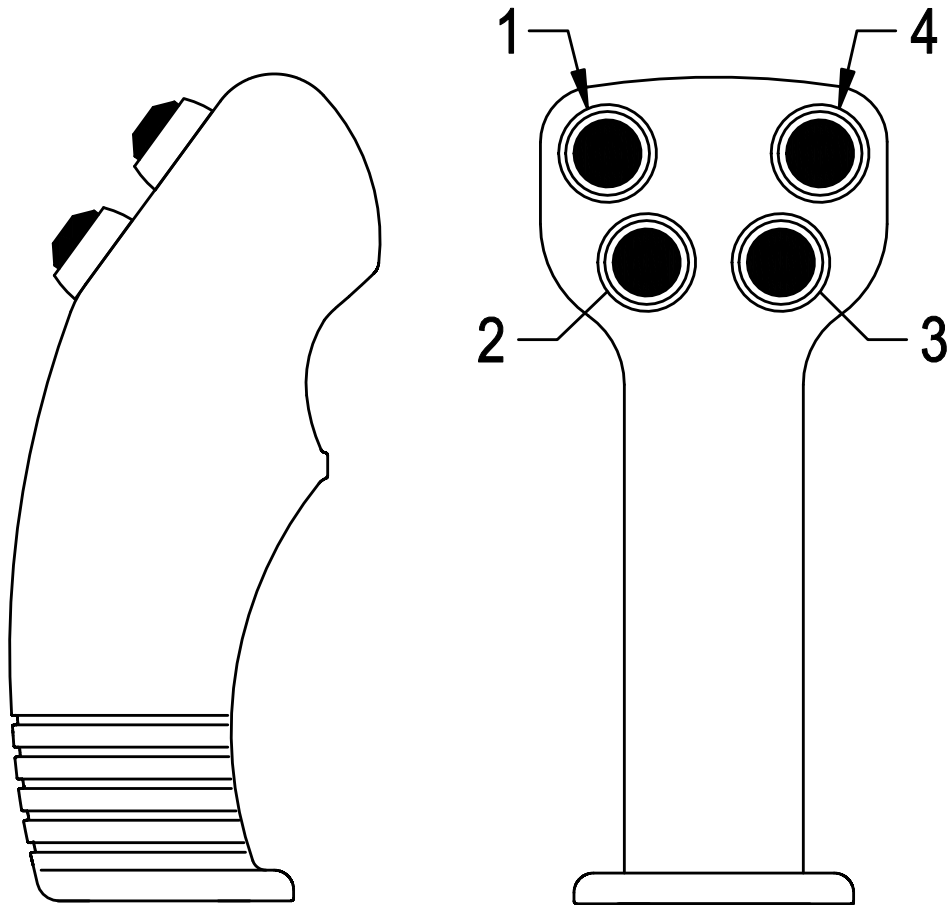


RETURN SPRING + DETENT
port 1

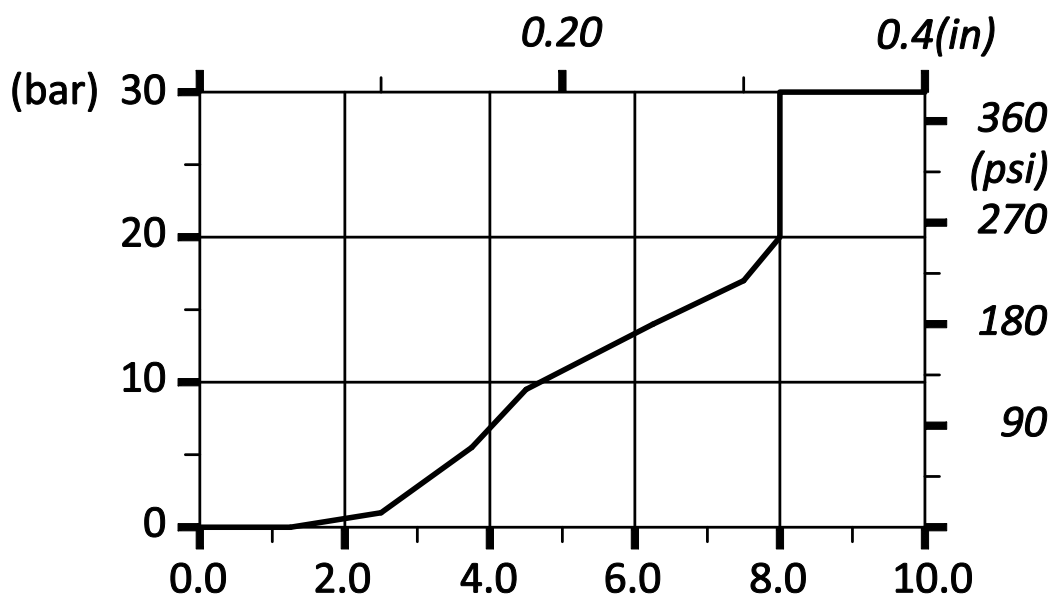




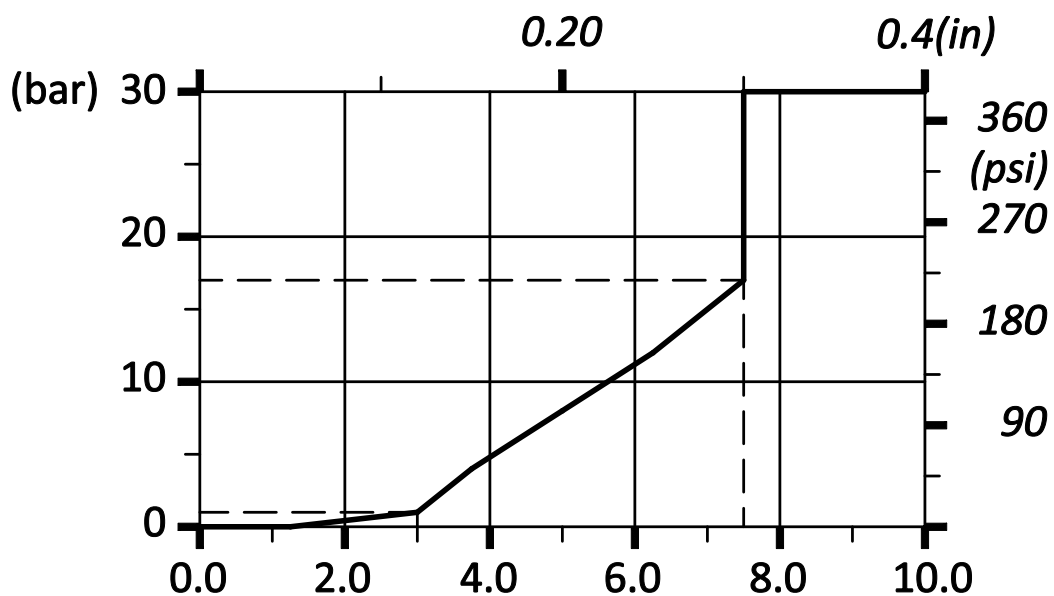


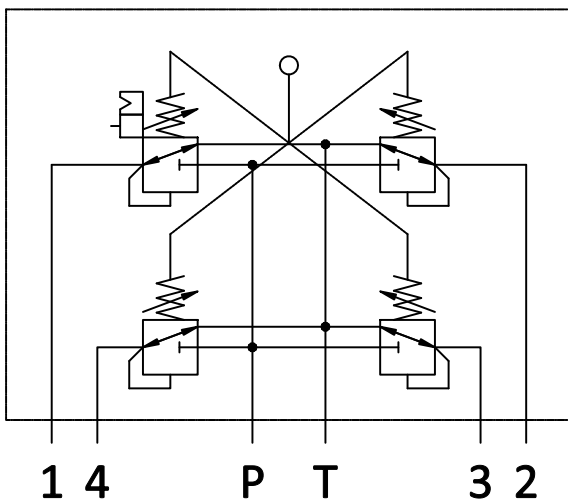
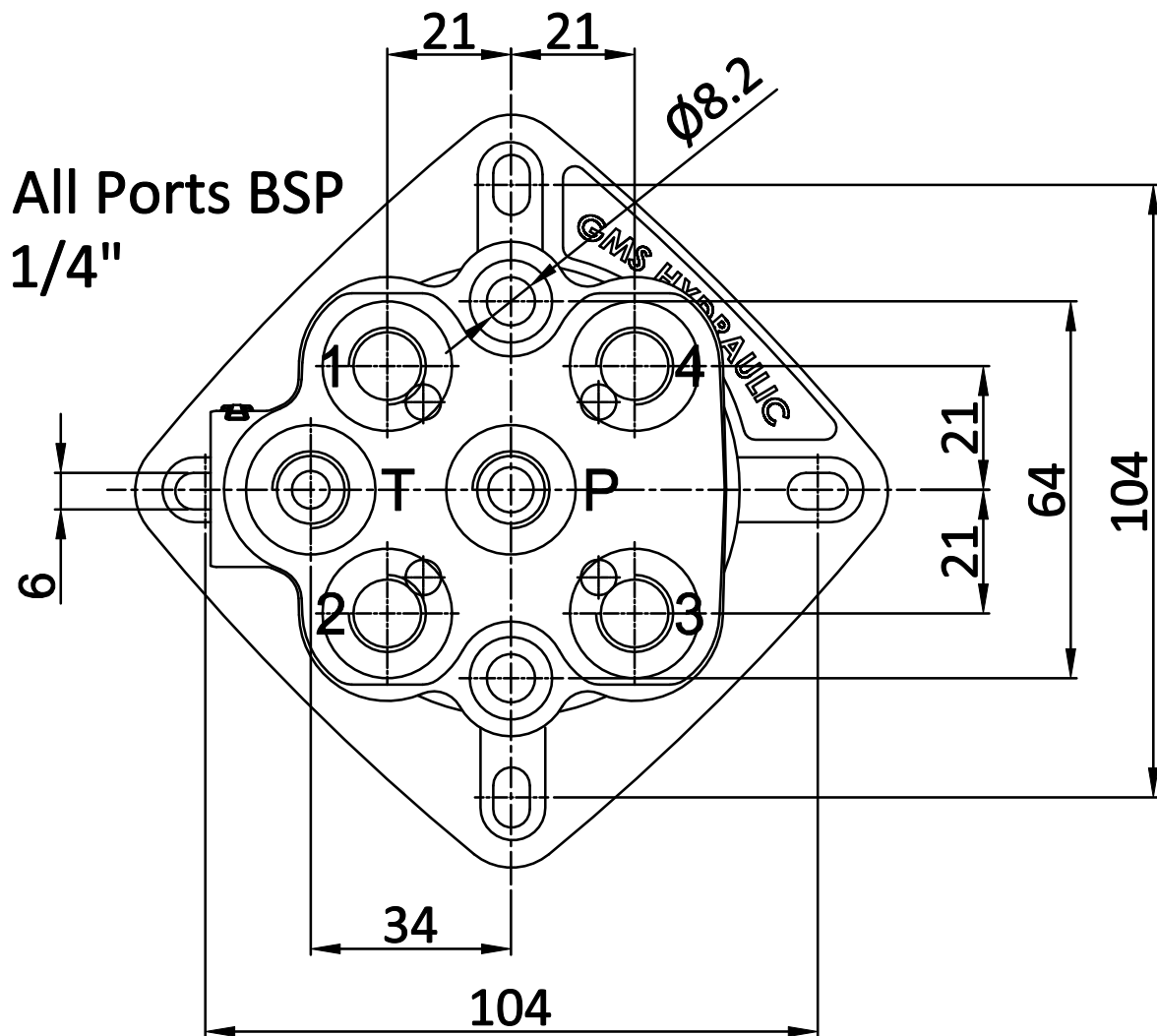


*metering curve (port 1)
return spring (YBM Y0048)*

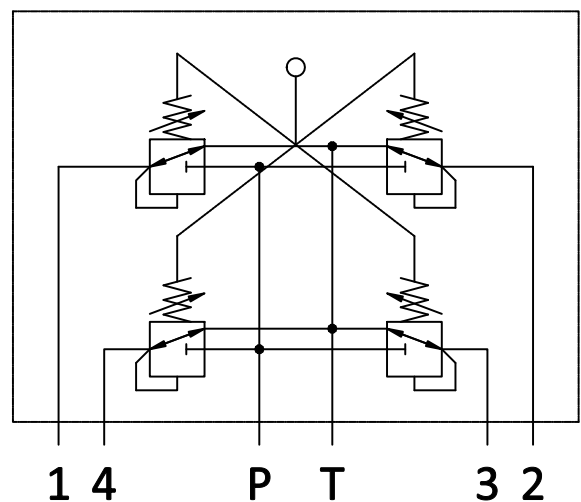


*metering curve (port 2,3,4)
return spring (YBM Y0048)*





HYDRAULIC SYMBOL



HYDRAULIC SYMBOL

JSSC 100

Working Conditions

This catalogue shows technical specifications and diagrams measured through mineral oil of 46mm²/s - 46 cSt viscosity at 40°C - 104°F temperature.

Nominal flow rating	from 5 to 20 l/min - from 1.32 to 5.28 USgpm	
Max. feeding pressure	on P inlet port	from 30 to 100 bar - from 435 to 1450 psi
Max. backpressure	3 bar - 43.5 psi	
Max. hysteresis	0.5 bar - 7.25 psi	
Internal leakage (all ports)	at 30 bar - 435 psi, P⇒T	from 5 to 8 cm ³ /min - from 0.15 to 0.27 in ³ /min
Fluid	Mineral oil	
Fluid temperature	with NBR (BUNA-N) seals	from -10°C to 80°C - from 14 °F to 176 °F
Viscosity	operating range	from 15 to 75 mm ² /s - from 15 to 75 cSt
	minimum	12 mm ² /s - 12 cSt
	maximum	400 mm ² /s - 400 cSt
Maximum contamination level	-/15/12 - ISO 4406 - NAS1638 class 6	
Ambient temperature	without electric devices	from -40°C to 60°C - from 40 °F to 140 °F
	with electric devices	from -20°C to 50°C - from -4 °F to 122 °F
Tie rod tightening torque (wrench 13)	only for JSSC 100-101	24 Nm - 17.7 lbft

REFERENCE STANDARD

		BSP	UN-UNF
THREAD ACCORDING TO		ISO 228/1	ISO 263
		BS 2779	ANSI B1.1 unified
	ISO	1179	11926
CAVITY DIMENSION ACCORDING TO	SAE		J11926
	DIN	3852-2 shape X or Y	

PORT THREADING

PORTS	Threads		Fitting tightening torque	
	UNI EN ISO 1179	UNI EN ISO 11926-2	Nm	lbft
P Inlet	G 1/4	9/16-18 (SAE 6)	30	22.13
Ports	G 1/4	9/16-18 (SAE 6)	30	22.13
T Outlet	G 1/4	9/16-18 (SAE 6)	30	22.13

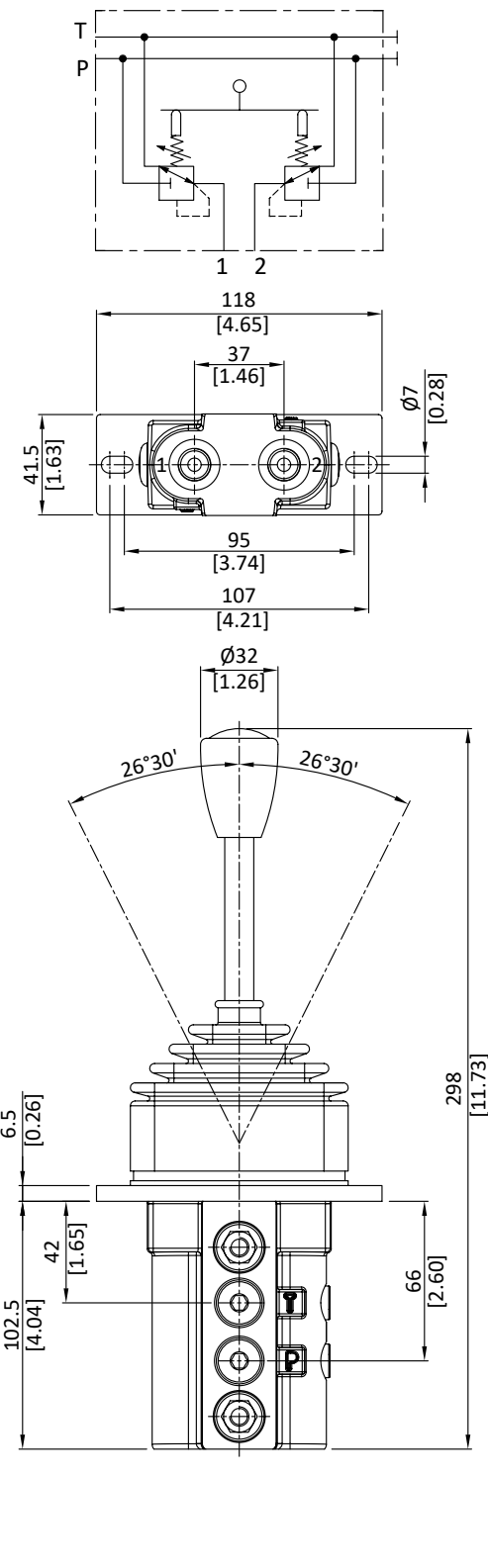
NOTE – These torques are recommended. Assembly tightening torque depends on many factors, including lubrication, coating and surface finishing. The manufacturer has to be consulted.

Dimensions and hydraulic circuit

Single acting version

Single function configuration with side P and T ports.

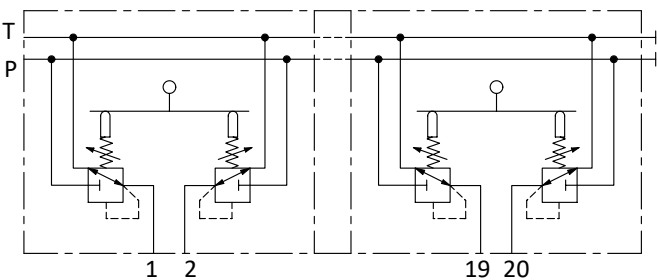
Hydraulic circuit



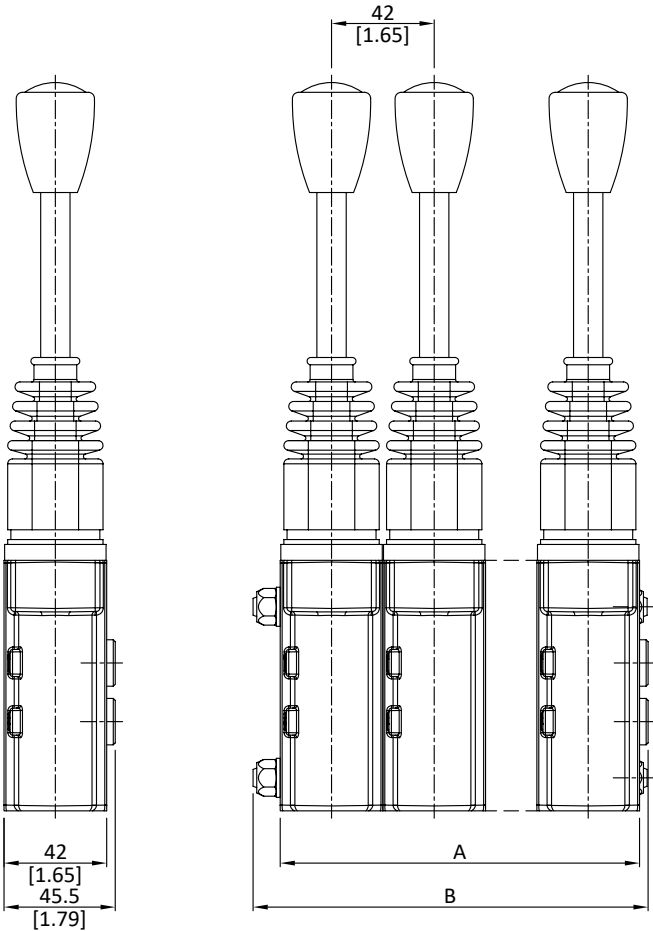
JSSC100/n version

Multiple function configuration with side P and T ports.

Hydraulic circuit



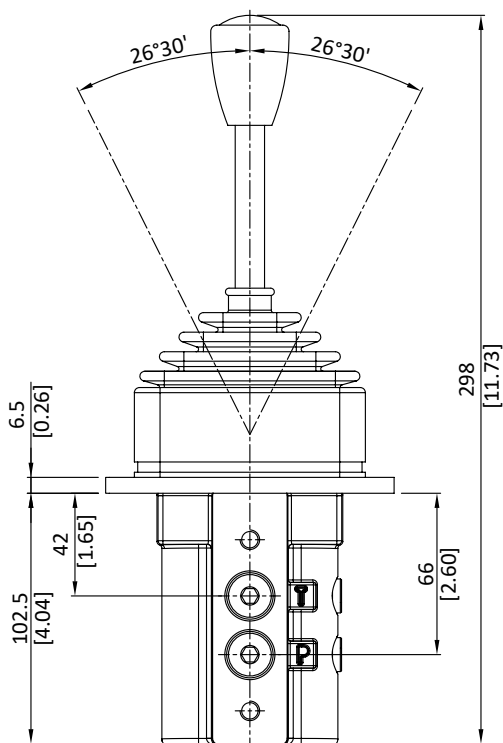
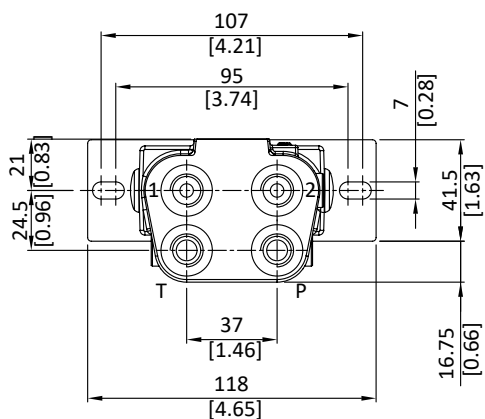
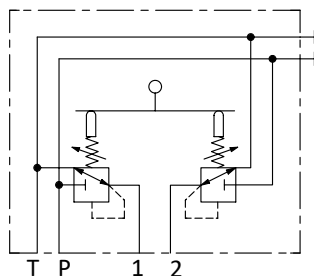
TYPE	A		B		TYPE	A		B	
	mm	in	mm	in		mm	in	mm	in
JSSC100/2	84	3.31	98	3.86	JSSC100/7	294	11.57	308	12.13
JSSC100/3	126	4.96	140	5.51	JSSC100/8	336	13.23	350	13.78
JSSC100/4	168	6.61	182	7.17	JSSC100/9	378	14.88	392	15.43
JSSC100/5	210	8.27	224	8.82	JSSC100/10	420	16.54	434	17.09
JSSC100/6	252	9.92	266	10.47					



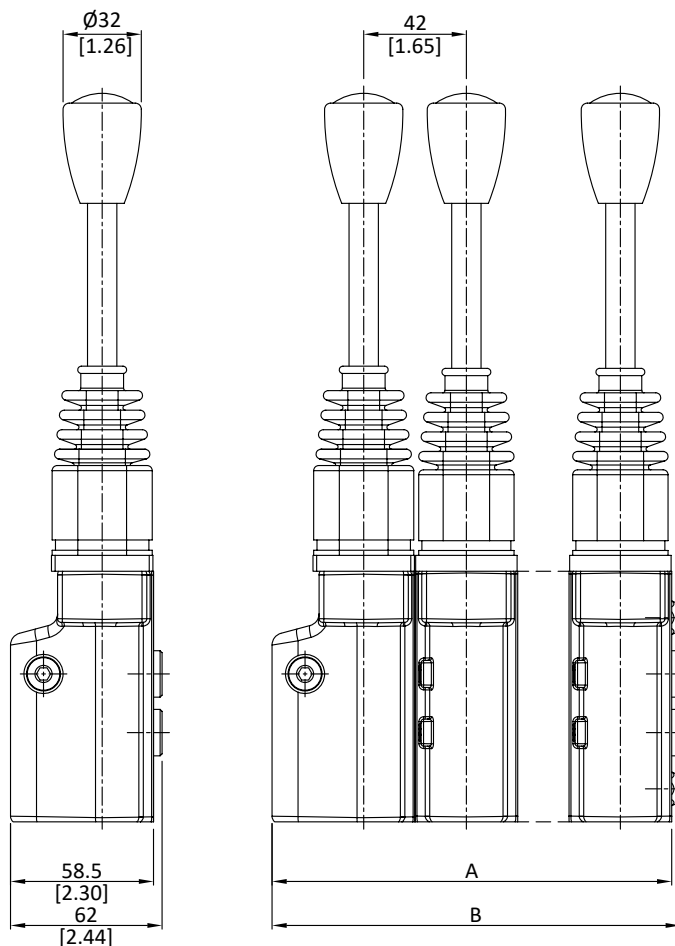
JSSC101 version

JSSC101/n version

Hydraulic circuit

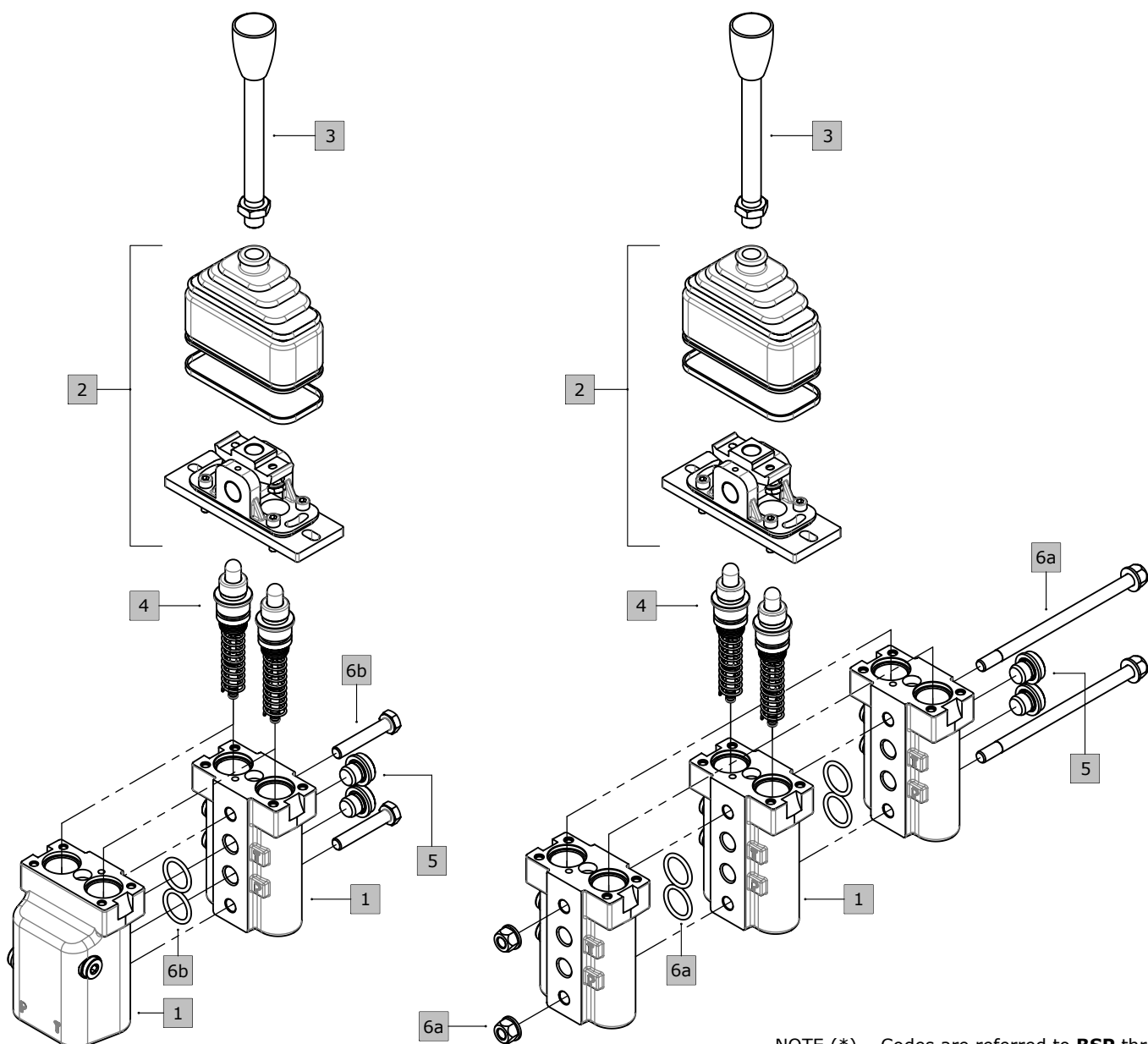
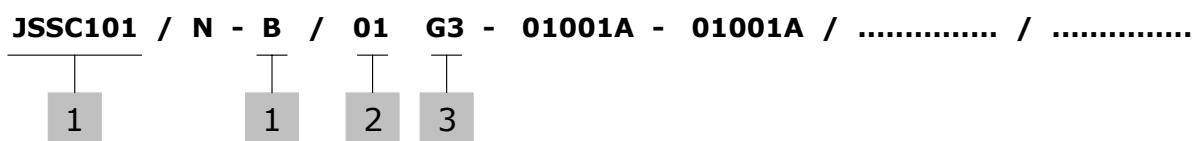
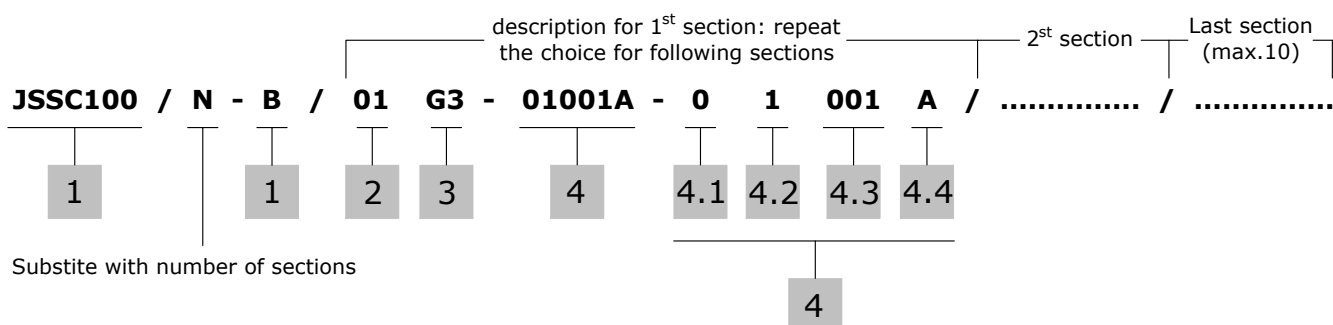


TYPE	A		B		TYPE	A		B	
	mm	in	mm	in		mm	in	mm	in
JSSC101/2	100.5	3.96	104	4.09	JSSC101/7	310.5	12.22	314	12.36
JSSC101/3	142.5	5.61	146	5.75	JSSC101/8	352.5	13.88	356	14.02
JSSC101/4	184.5	7.26	188	7.40	JSSC101/9	394.5	15.53	398	15.67
JSSC101/5	226.5	8.92	230	9.06	JSSC101/10	436.5	17.19	440	17.32
JSSC101/6	268.5	10.57	272	10.71					



JSSC100-JSSC101 series

Ordering codes



NOTE (*) – Codes are referred to **BSP** thread.

Ordering codes

1 Body Kit

TYPE	CODE	DESCRIPTION
JSSC 100	-	With side P and T port
JSSC 101	-	With bottom P and T ports

2 Control Option

Complete with rubber bellow and fixing wrapper

TYPE	CODE	DESCRIPTION
Without handlever (for standard handlever see 3)		
01	30 05 6488	Spring return to neutral position

Controls with handlevers

For assembling reasons, the under listed control kits must be supplied complete with handle. Please contact our Sales Department for use with different handles.

02G3	-	With detent in neutral position, spring return in neutral position and type G knob; can not be used on two adjacent sections
03G3	-	With friction and neutral sensing, G knob
05G3	-	With detent in pos. 1 and spring return in neutral position and type G knob;
06G3	-	With detent in pos. 2 and spring return in neutral position and type G knob;
07G3	-	With detent in pos. 1 and 2; spring return in neutral position and type G knob;
10G3	-	With friction and detent in neutral position, G knob; can not be used on two adjacent sections
11G3	-	Detent in 3 positions, G knob; can not be used on two adjacent sections
20G3	-	Detent in position 1 and 2, friction, neutral sensing, G knob

3 Standart Handlevers

The pilot control valve is fitted with G3 handlever (less switches). Here below are listed the available handlevers configurations.

TYPE	CODE	DESCRIPTION
G3	-	Oval with portlight, straight rod (Standard)
G3(15)	-	Oval with portlight, 15° bending rod
G3(30)	-	Oval with portlight, 30° bending rod

4 Pressure Control Curves

For list available see from page

4.1 Curve Type

TYPE	DESCRIPTION
0	Standart

4.2 Typology Of Curves

TYPE	DESCRIPTION
0	With step
1	Without step

4.3 Curve Identification

Progressive number, see tables from page ...

4.4 Return Springs

TYPE	DESCRIPTION
A	Operation range from 23 to 35.2 N - from 5.17 to 7.91 lbf

5 Closing Plugs *

CODE	DESCRIPTION
-	G1/4 plug upper ports (n. 2 plugs)
-	SAE 6 plug for upper ports (n. 2 plugs)

6a Assembling Kit For JSSC100

Only for JSSC100/2 or higher: this kit contains tie rods, nuts and O-ring seal.

CODE	DESCRIPTION
30 05 6133	Assembling Kit For JSSC100/2
30 05 6134	Assembling Kit For JSSC100/3
30 05 6135	Assembling Kit For JSSC100/4
30 05 6136	Assembling Kit For JSSC100/5
30 05 6137	Assembling Kit For JSSC100/6
30 05 6138	Assembling Kit For JSSC100/7
30 05 6139	Assembling Kit For JSSC100/8
30 05 6140	Assembling Kit For JSSC100/9
30 05 6141	Assembling Kit For JSSC100/10
30 05 6142	Assembling Kit For JSSC100/11
30 05 6143	Assembling Kit For JSSC100/12

6b Assembling Kit For JSSC101

Only for JSSC101/2 or higher: this kit contains tie rods, nuts and O-ring seal.

CODE	DESCRIPTION
30 05 5028	Assembling Kit For JSSC101/2
30 05 5029	Assembling Kit For JSSC101/3
30 05 5030	Assembling Kit For JSSC101/4
30 05 5031	Assembling Kit For JSSC101/5
30 05 5076	Assembling Kit For JSSC101/6
30 05 6001	Assembling Kit For JSSC101/7
30 05 6013	Assembling Kit For JSSC101/8
30 05 6145	Assembling Kit For JSSC101/9
30 05 6146	Assembling Kit For JSSC101/10
30 05 6147	Assembling Kit For JSSC101/11
30 05 6148	Assembling Kit For JSSC101/12

Configuration Option

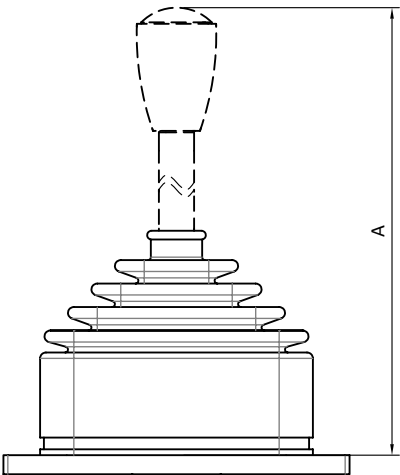
With spring return in neutral position

Control Type

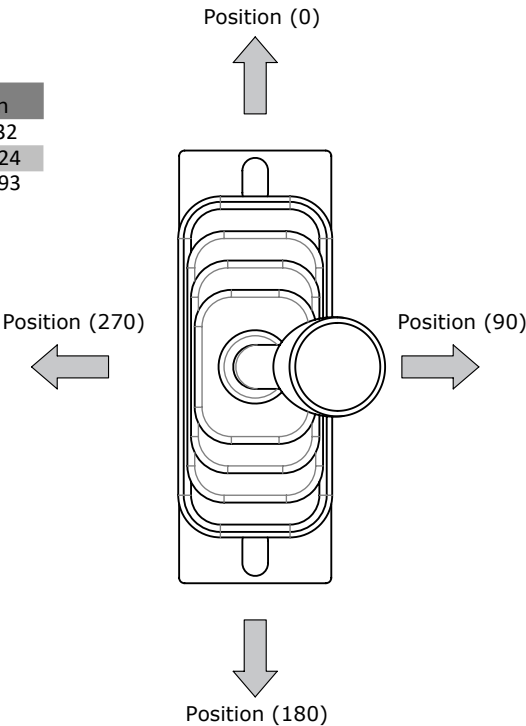
- 01: Spring return to neutral position
- 05: With detent in pos. 1 and spring return in neutral position
- 06: With detent in pos. 2 and spring return in neutral position
- 07: With detent in pos. 1 and 2; spring return in neutral position

Controls type

- 03: With friction and neutral sensing



Handlever Type	mm	A	in
G3 Straight Rod	186		7.32
G3 15° Bending Rod	184		7.24
G3 30° Bending Rod	176		6.93



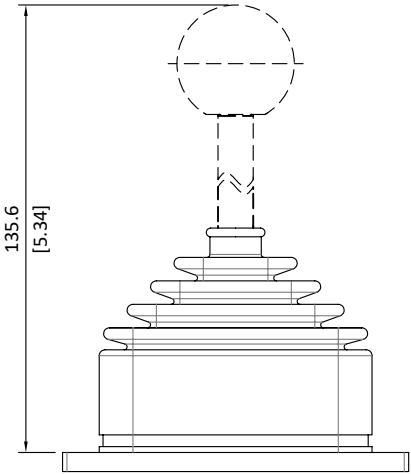
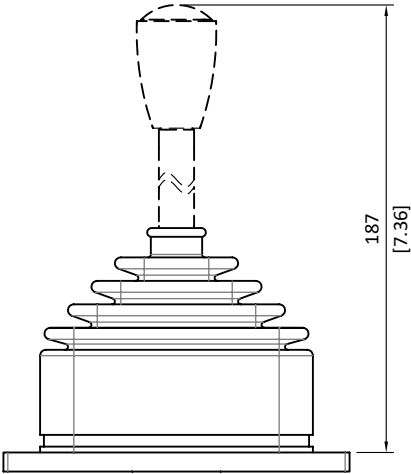
Controls with levers

Control Type

- 03G3: With friction and neutral sensing, oval with portlight, G knob
- 03E3: As 03G3 control, E knob and 15° bending rod
- 10G3: With friction and detent in neutral position, G knob;

Control Type

- 11G3: Detent in 3 positions, G knob;
- 20G3: Detent in position 1 and 2, friction, neutral sensing, G knob



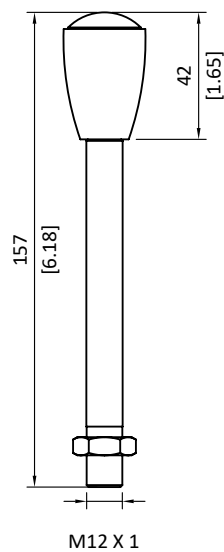
Configuration Option

Standard handlevers

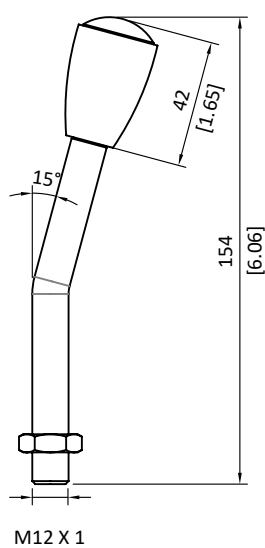
G Type

Oval handles with customizable portlight. It's possible to insert labels with specific machine functions (for example: lifting function)

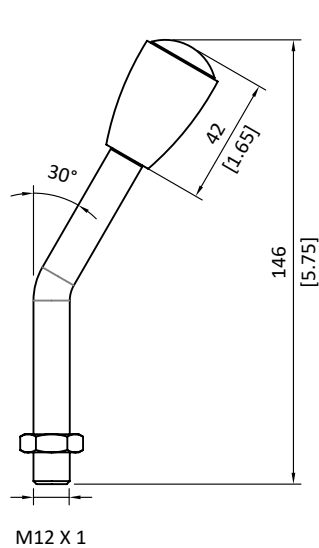
G Type
Straight Rod



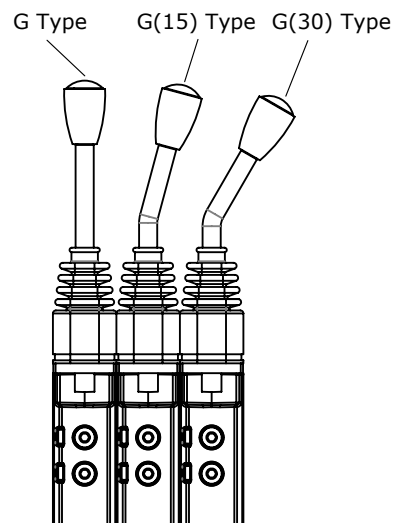
G(15) Type
15° Bedding Rod



G(30) Type
30° Bedding Rod



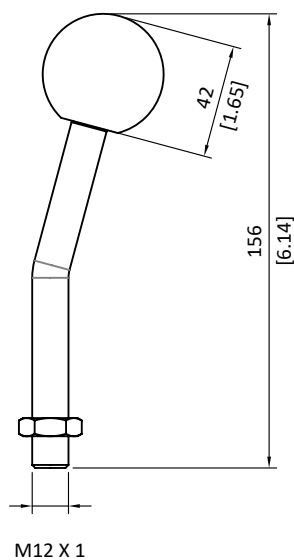
Mounting Example
Pilot Control Valve
With 3 Section



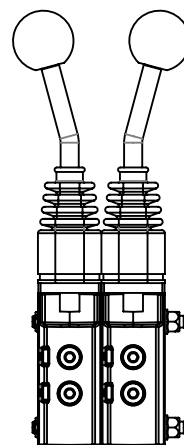
E Type

Customizable handle as type G.

E Type
15° bending rod

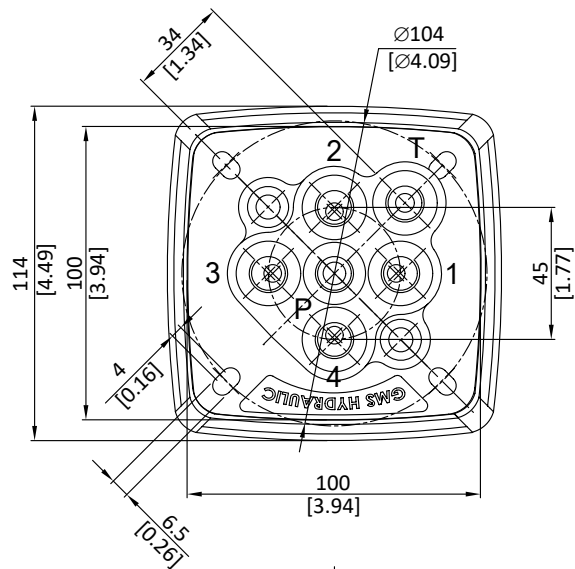


Mounting example
pilot control valve with
2 sections

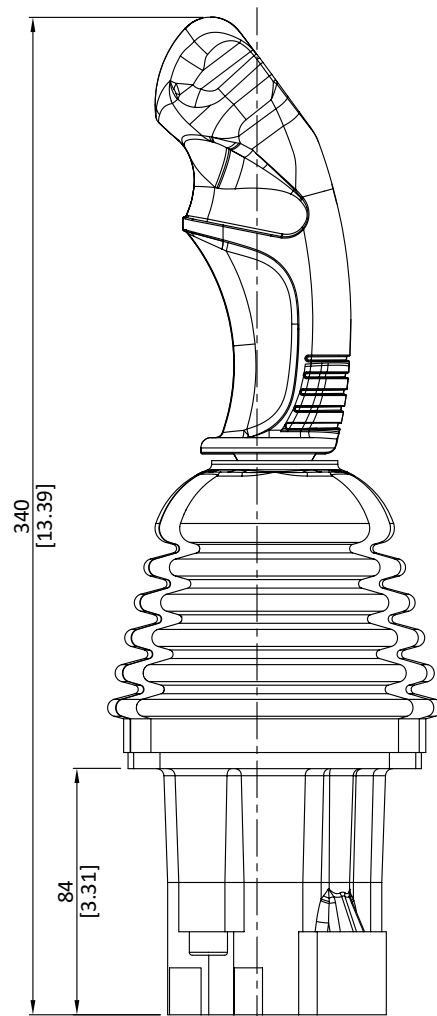
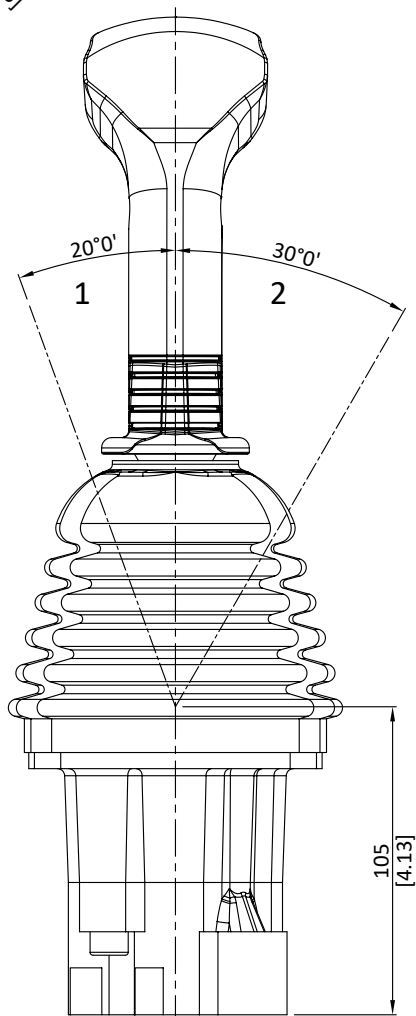
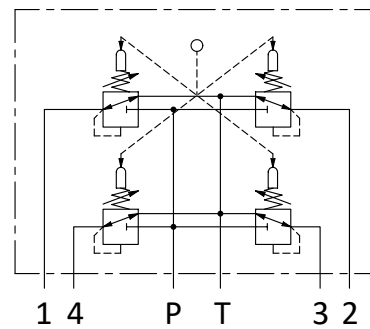


Dimensions and hydraulic circuit

JSSC400



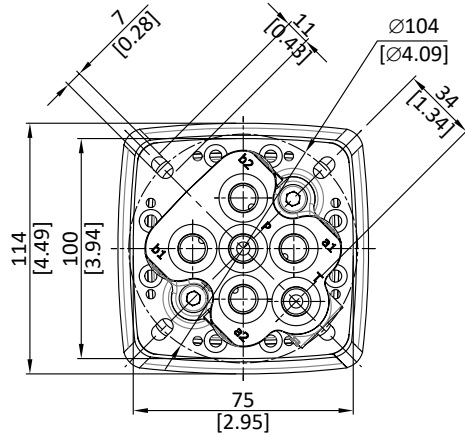
Hydraulic circuit



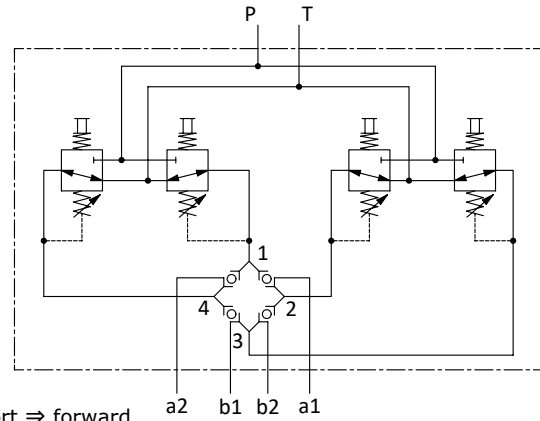
- 1 : Single work port
- 2 : Two simultaneous work ports

Dimensions and hydraulic circuit

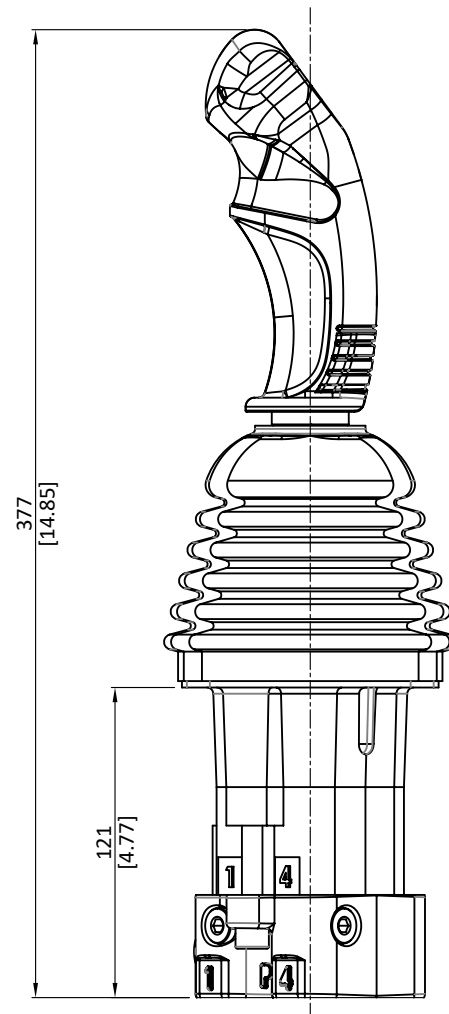
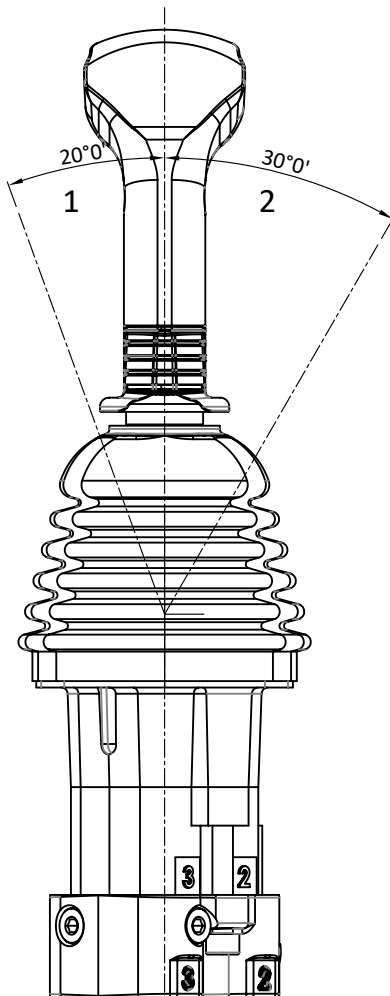
JSSC430



Hydraulic circuit



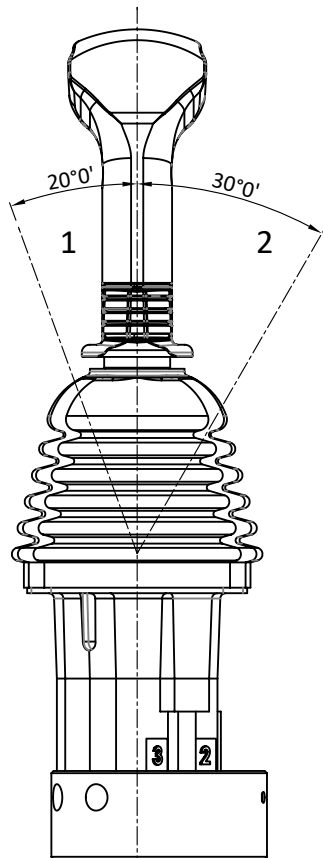
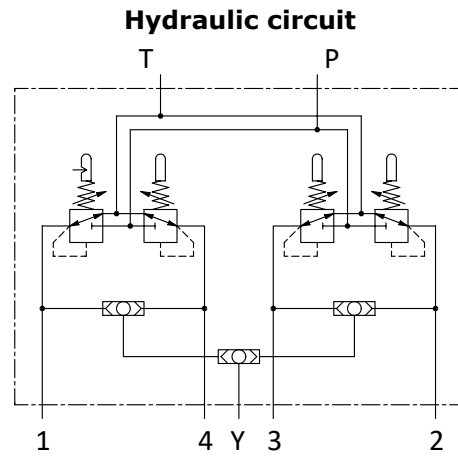
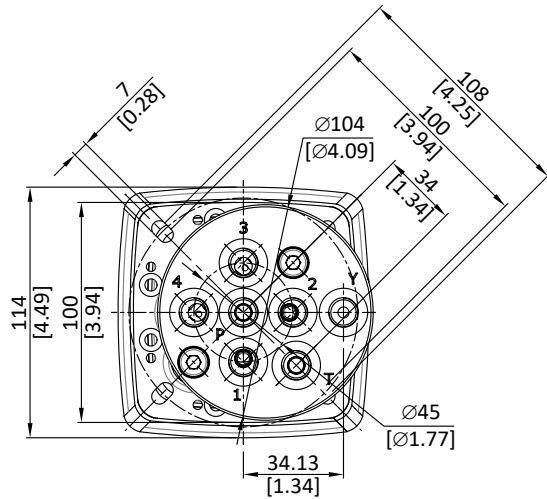
Work port 1 ⇒ a1-a2 port ⇒ forward
 Work port 2 ⇒ a1-b2 port ⇒ right
 Work port 3 ⇒ b1-b2 port ⇒ back
 Work port 4 ⇒ a2-b1 port ⇒ left



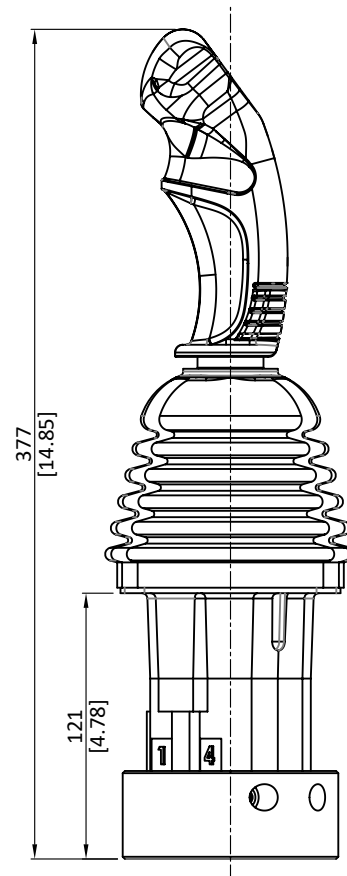
1 : Single work port
 2 : Two simultaneous work ports

Dimensions and hydraulic circuit

JSSC435

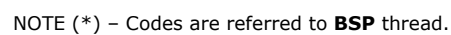


- 1 : Single work port
- 2 : Two simultaneous work ports



Ordering codes

Diagram illustrating a sequence of nodes (1, 2, 1, 3, 4, 4a, 4b, 4c, 4d, 4e, 5) connected by vertical lines to a common horizontal line above them.



JSSC430 series

Ordering codes

JSSC430 / 0 1 - B / 01 H000 - K1P - Y1P - S1P - M1P - C125 / 01001A X 4

1

2

1

3

4

4a

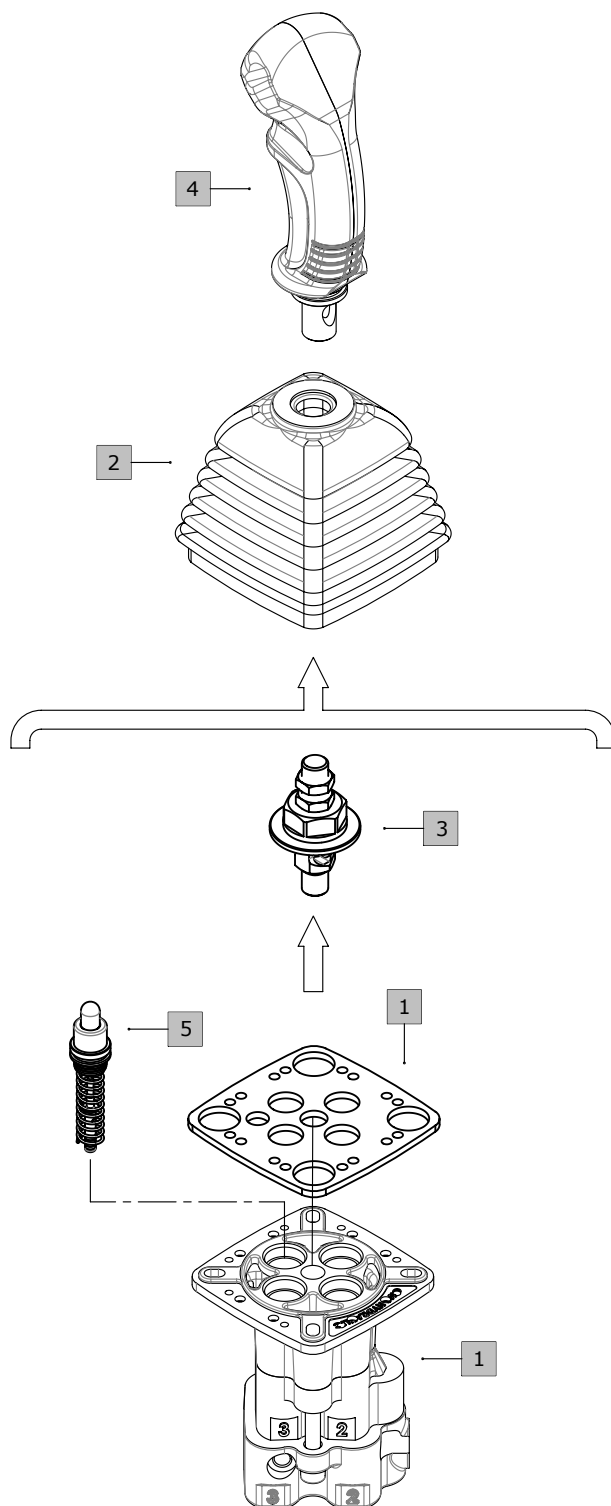
4b

4c

4d

4e

5



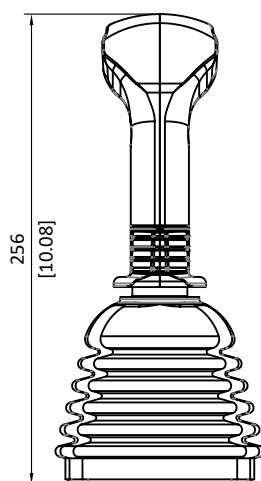
NOTE (*) – Codes are referred to **BSP** thread.

Configuration Option

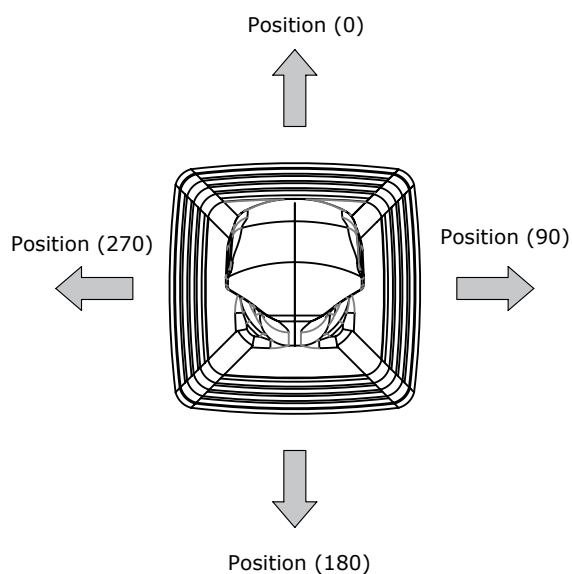
With spring return in neutral position

Control Type

01: Spring return in neutral position.



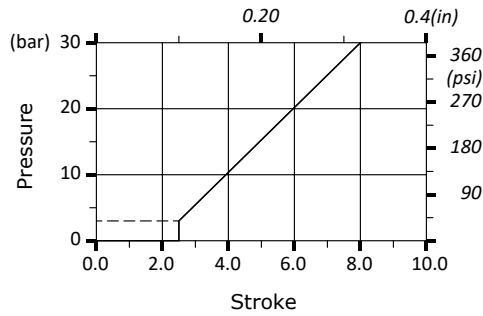
Handles positions



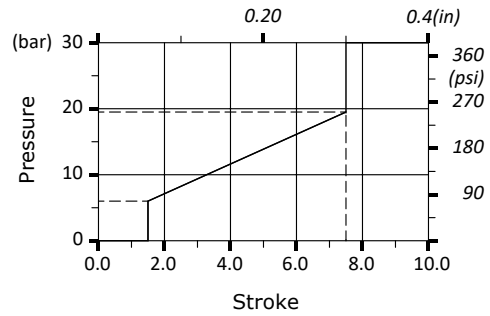
Pressure Control Curves

Control Curves With Step

01 - Without Step



02 - With Step



Control Curves Without Step

Curve Description Curve Kit Kod	Type	Nr	Pressure		Stroke		C		D	
			A Bar	A Psi	B Bar	B Psi	mm	in	mm	in
30 07 7613	01	001	3.00 (±0.5)	43.50 (±7.25)	P	P	2.50	0.09	8.00	0.31
30 07 7652	01	103	6.00 (±0.5)	87.00 (±7.25)	P	P	1.50	0.05	8.00	0.31
30 07 7653	01	110	5.80 (±0.5)	84.10 (±7.25)	19.50 (±0.5)	282.75 (±7.25)	1.50	0.05	7.50	0.29
30 07 7619	01	111	6.00 (±0.5)	87.00 (±7.25)	27.00 (±0.5)	391.50 (±7.25)	1.50	0.05	8.00	0.31
30 07 7654	01	138	2.50 (±0.5)	36.25 (±7.25)	13.00 (±0.5)	188.50 (±7.25)	1.50	0.05	8.00	0.31
30 07 7691	01	020	4.00 (±0.5)	58.00 (±7.25)	16.00 (±0.5)	232.00 (±7.25)	1.50	0.05	7.00	0.27

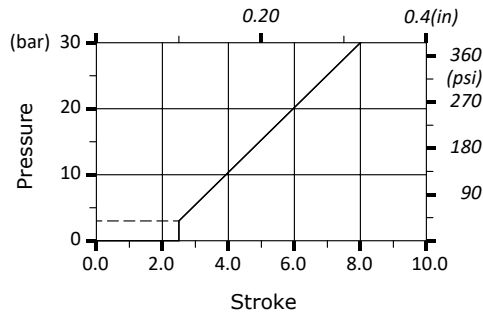
Control Curves With Step

Curve Description Curve Kit Kod	Type	Nr	Pressure		Stroke		C		D	
			A Bar	A Psi	B Bar	B Psi	mm	in	mm	in
30 07 7534	02	001	3.00 (±0.5)	43.50 (±7.25)	P	P	2.50	0.09	8.00	0.31

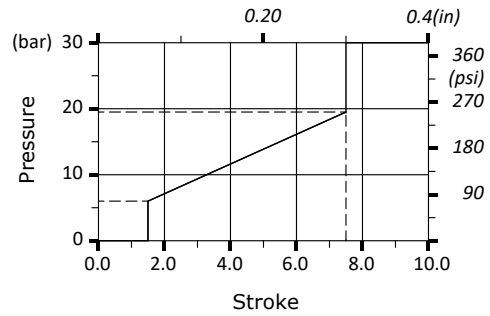
Pressure Control Curves

Control Curves With Step

01 - Without Step



02 - With Step



Control Curves Without Step

Curve Description Curve Kit Kod	Type	Nr	Pressure		Bar	Psi	Stroke		Bar	Psi	mm		mm	in
			A	B			C	D						
30 07 7532	01	001	3.00 (±0.5)	43.50 (±7.25)	P	P	2.50	0.09	8.00	0.31				
30 07 7655	01	099	6.00 (±0.5)	87.00 (±7.25)	P	P	1.50	0.05	8.00	0.31				
30 07 7650	01	110	5.80 (±0.5)	84.10 (±7.25)	19.50 (±0.5)	282.75 (±7.25)	1.50	0.05	7.50	0.29				
30 07 7618	01	111	6.00 (±0.5)	87.00 (±7.25)	27.00 (±0.5)	391.50 (±7.25)	1.50	0.05	8.00	0.31				
30 07 7651	01	138	2.50 (±0.5)	36.25 (±7.25)	13.00 (±0.5)	188.50 (±7.25)	1.50	0.05	8.00	0.31				
30 07 7656	01	143	3.00 (±0.5)	43.50 (±7.25)	25.00 (±0.5)	362.50 (±7.25)	1.50	0.05	7.00	0.27				
30 07 7678	01	00 001	5.80 (±0.5)	84.10 (±7.25)	25.00 (±0.5)	362.50 (±7.25)	1.50	0.05	7.00	0.27				

Control Curves With Step

Curve Description Curve Kit Kod	Type	Nr	Pressure		Bar	Psi	Stroke		Bar	Psi	mm		mm	in
			A	B			C	D						
30 07 7534	02	001	3.00 (±0.5)	43.50 (±7.25)	P	P	2.50	0.09	8.00	0.31				

JSSC 500

Working Conditions

This catalogue shows technical specifications and diagrams measured through mineral oil of 46mm²/s - 46 cSt viscosity at 40°C - 104°F temperature.

Nominal flow rating	from 5 to 20 l/min - from 1.32 to 5.28 USgpm	
Max. feeding pressure	on P inlet port	from 30 to 100 bar - from 435 to 1450 psi
Max. backpressure	3 bar - 43.5 psi	
Max. hysteresis	0.5 bar - 7.25 psi	
Internal leakage (all ports)	at 30 bar - 435 psi, P⇒T	from 5 to 8 cm ³ /min - from 0.15 to 0.27 in ³ /min
Fluid	Mineral oil	
Fluid temperature	with NBR (BUNA-N) seals	from -10°C to 80°C - from 14 °F to 176 °F
Viscosity	operating range	from 15 to 75 mm ² /s - from 15 to 75 cSt
	minimum	12 mm ² /s - 12 cSt
	maximum	400 mm ² /s - 400 cSt
Maximum contamination level	-/15/12 - ISO 4406 - NAS1638 class 6	
Ambient temperature	without electric devices	from -40°C to 60°C - from 40 °F to 140 °F
	with electric devices	from -20°C to 50°C - from -4 °F to 122 °F
Tie rod tightening torque (wrench 13)	only for JSSC 100-101	24 Nm - 17.7 lbft

REFERENCE STANDARD

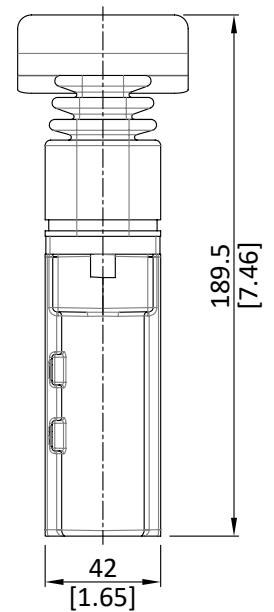
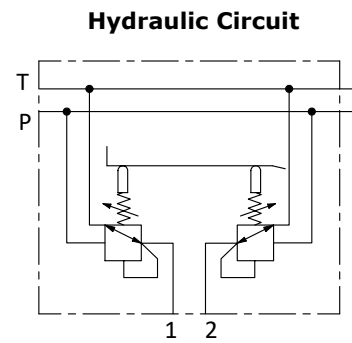
		BSP	UN-UNF
THREAD ACCORDING TO		ISO 228/1	ISO 263
		BS 2779	ANSI B1.1 unified
	ISO	1179	11926
CAVITY DIMENSION ACCORDING TO	SAE		J11926
	DIN	3852-2 shape X or Y	

PORT THREADING

PORTS	Threads		Fitting tightening torque	
	UNI EN ISO 1179	UNI EN ISO 11926-2	Nm	lbft
P Inlet	G 1/4	9/16-18 (SAE 6)	30	22.13
Ports	G 1/4	9/16-18 (SAE 6)	30	22.13
T Outlet	G 1/4	9/16-18 (SAE 6)	30	22.13

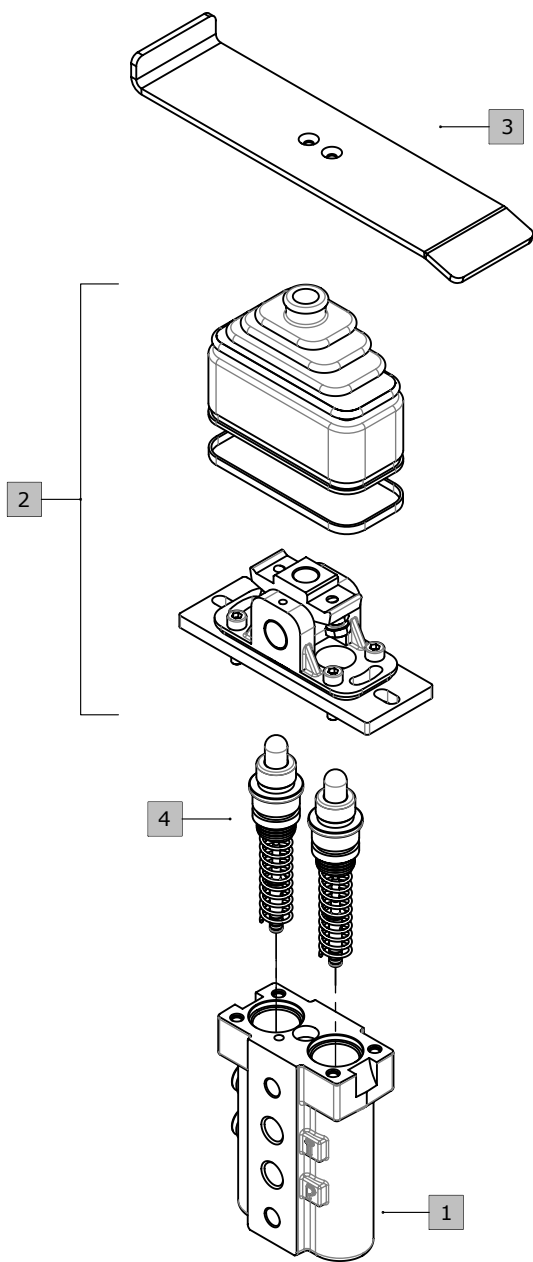
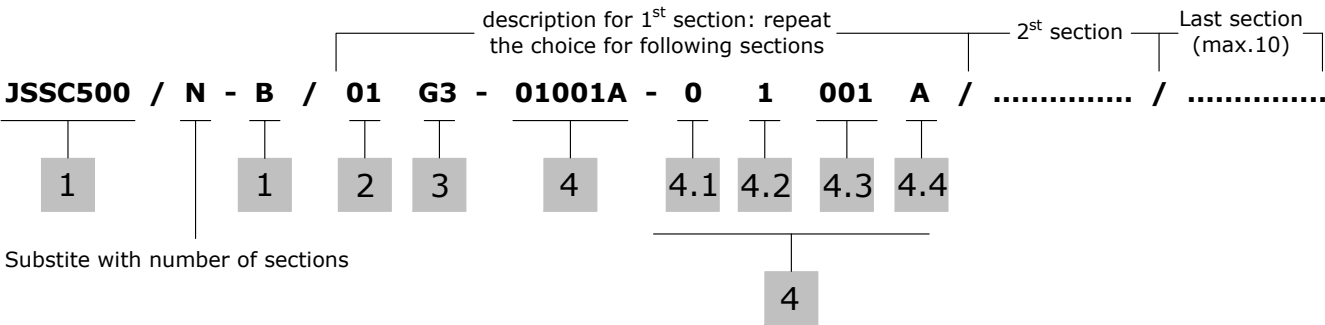
NOTE – These torques are recommended. Assembly tightening torque depends on many factors, including lubrication, coating and surface finishing. The manufacturer has to be consulted.

JSSC500



JSSC500 series

Ordering codes



NOTE (*) – Codes are referred to **BSP** thread.

Ordering codes

1 Body Kit

TYPE	CODE	DESCRIPTION
JSSC 500	-	With side P and T port
JSSC 501	-	With bottom P and T ports

2 Control Option

Complete with rubber bellow and fixing wrapper

TYPE	CODE	DESCRIPTION
01F	-	With spring return in neutral position and with rubber bellow and flat pedal
02F	-	With spring return in neutral position and with rubber bellow and adjustable pedal

3 Pressure Control Curves

For list available see from page 25

3.1 Curve Type

TYPE	DESCRIPTION
0	Standart

3.2 Typology Of Curves

TYPE	DESCRIPTION
0	With step
1	Without step

3.3 Curve Identification

Progressive number, see tables from page 25

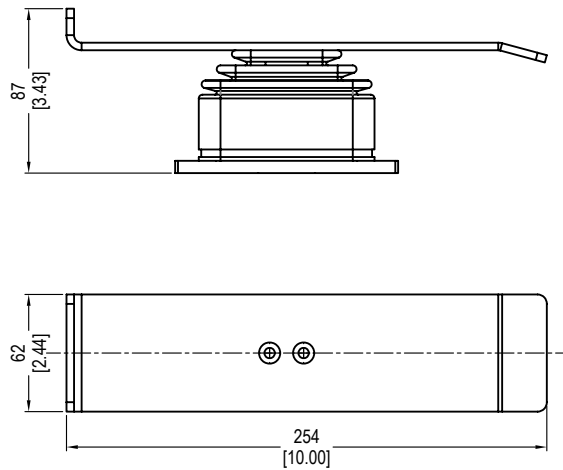
3.4 Return Springs

TYPE	DESCRIPTION
A	Operation range from 23 to 35.2 N - from 5.17 to 7.91 lbf

Control options

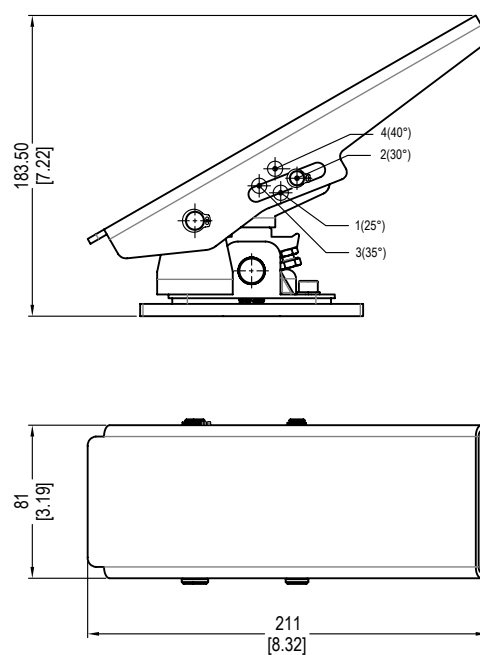
01F Type

With spring return in neutral position and with rubber bellow and flat pedal



02F Type

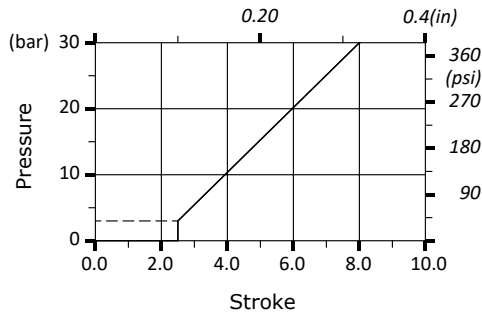
With spring return in neutral position and with rubber bellow and adjustable pedal



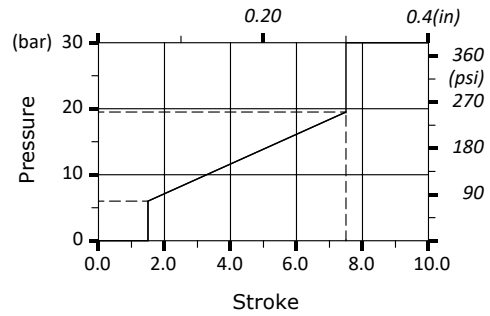
Pressure Control Curves

Control Curves With Step

01 - Without Step



02 - With Step



Control Curves Without Step

Curve Description Curve Kit Kod	Type	Nr	Pressure				Stroke			
			A Bar	A Psi	B Bar	B Psi	C mm	C in	D mm	D in
30 07 7613	01	001	3.00 (±0.5)	43.50 (±7.25)	P	P	2.50	0.09	8.00	0.31
30 07 7652	01	103	6.00 (±0.5)	87.00 (±7.25)	P	P	1.50	0.05	8.00	0.31
30 07 7653	01	110	5.80 (±0.5)	84.10 (±7.25)	19.50 (±0.5)	282.75 (±7.25)	1.50	0.05	7.50	0.29
30 07 7619	01	111	6.00 (±0.5)	87.00 (±7.25)	27.00 (±0.5)	391.50 (±7.25)	1.50	0.05	8.00	0.31
30 07 7654	01	138	2.50 (±0.5)	36.25 (±7.25)	13.00 (±0.5)	188.50 (±7.25)	1.50	0.05	8.00	0.31
30 07 7691	01	020	4.00 (±0.5)	58.00 (±7.25)	16.00 (±0.5)	232.00 (±7.25)	1.50	0.05	7.00	0.27

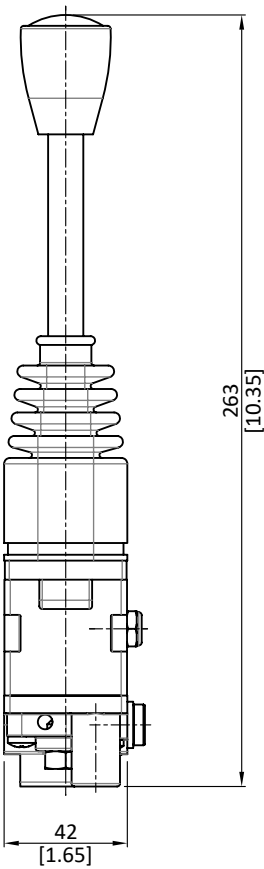
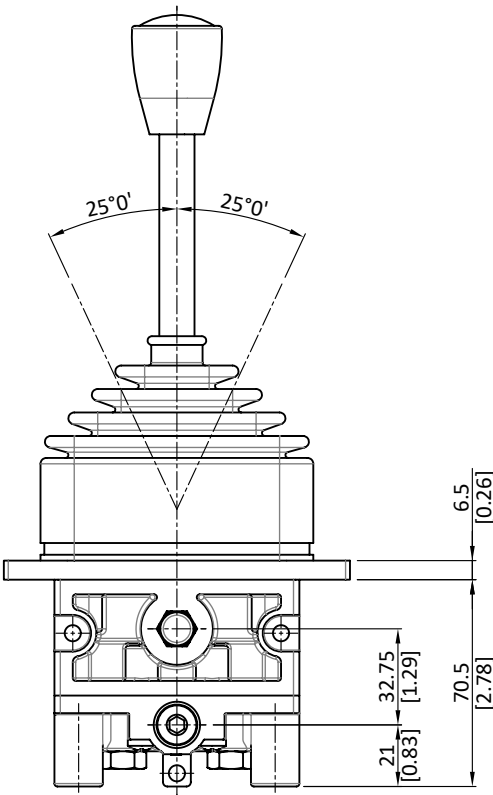
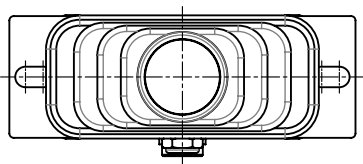
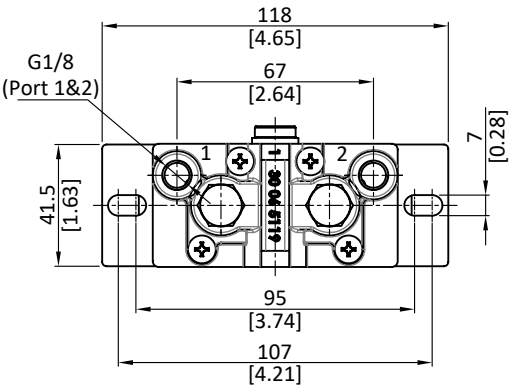
Control Curves With Step

Curve Description Curve Kit Kod	Type	Nr	Pressure				Stroke			
			A Bar	A Psi	B Bar	B Psi	C mm	C in	D mm	D in
30 07 7534	02	001	3.00 (±0.5)	43.50 (±7.25)	P	P	2.50	0.09	8.00	0.31

Dimensions

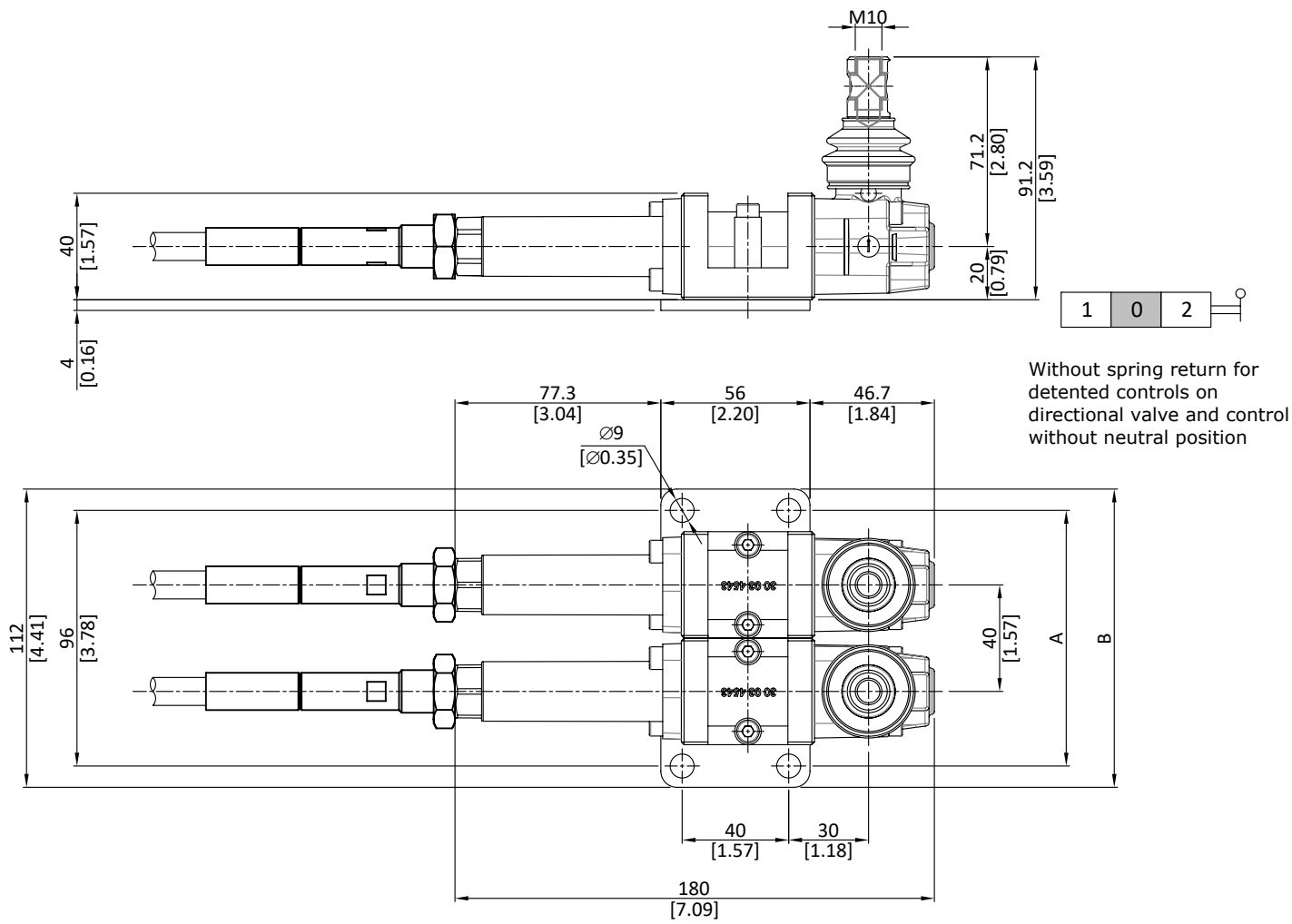
JSP100

Operation And Handle Position



Dimensions

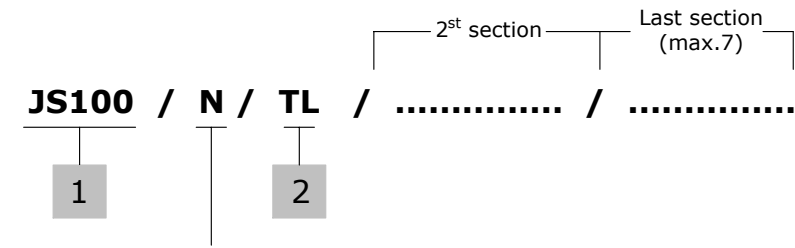
JS100



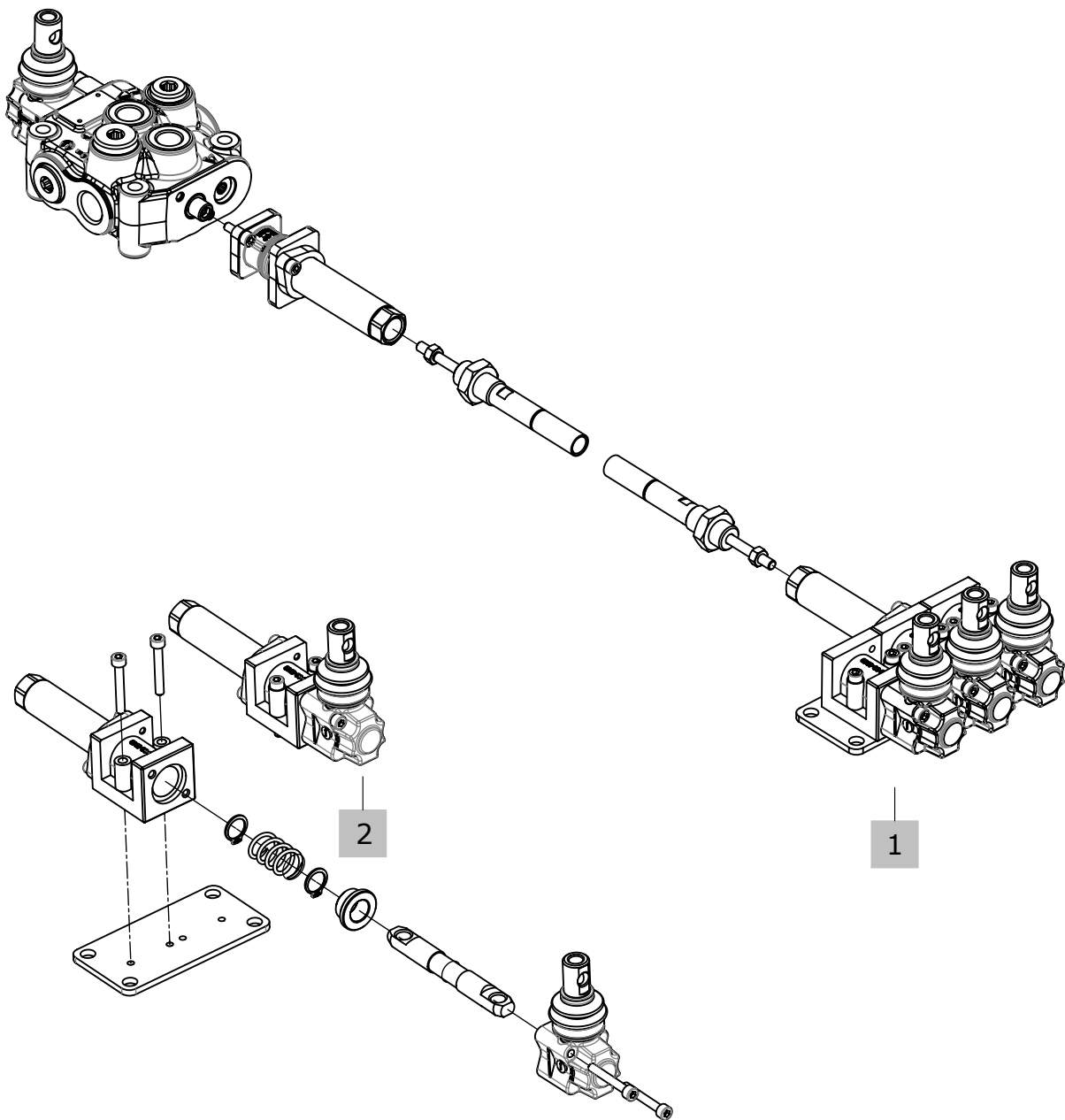
TYPE	JS100/1	JS100/2	JS100/3	JS100/4	JS100/5	JS100/6	JS100/7
	mm in	mm in	mm in	mm in	mm in	mm in	mm in
A	- -	96 3.78	136 5.35	176 6.73	216 8.50	256 10.08	296 11.65
B	- -	112 4.41	152 5.98	192 7.56	232 9.13	272 10.70	312 12.28

JS100 series

Ordering codes



Substitute with number of sections

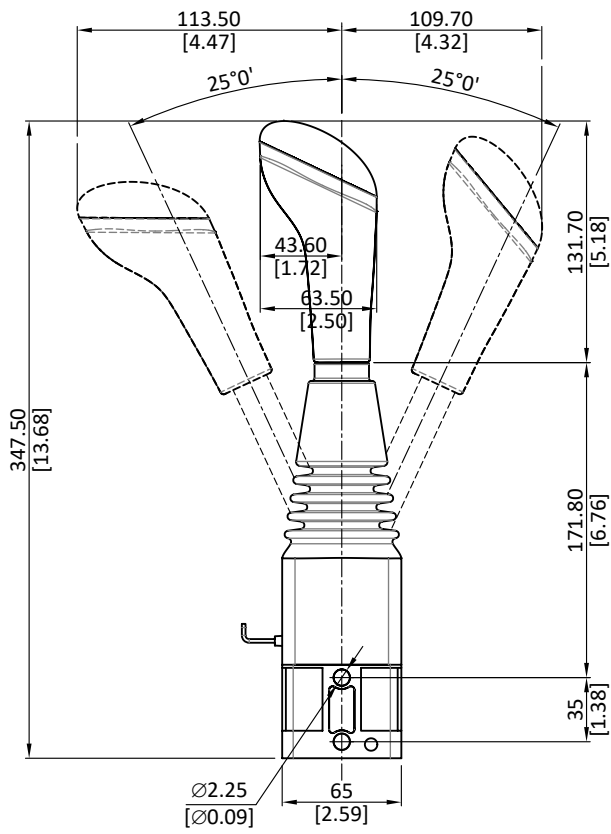
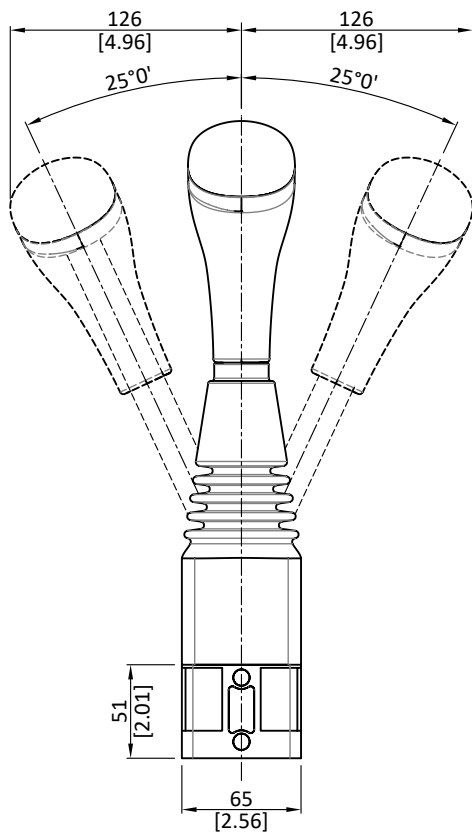


NOTE (*) – Codes are referred to **BSP** thread.

Dimensions and hydraulic circuit

JS200

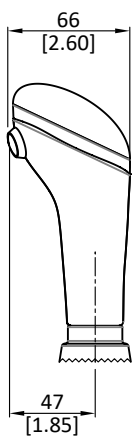
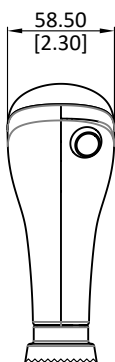
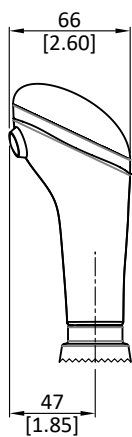
With FW type handle



With Single Button

With Double Button

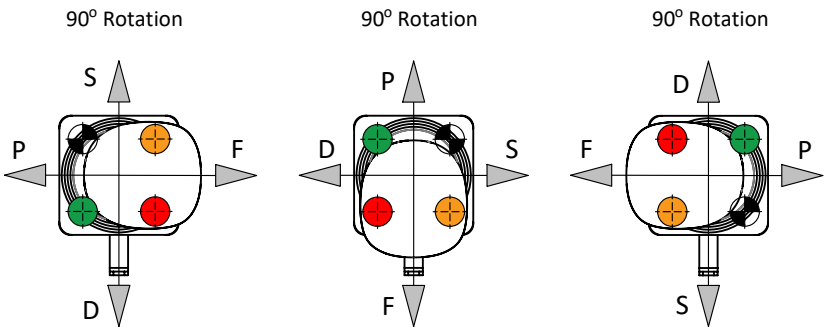
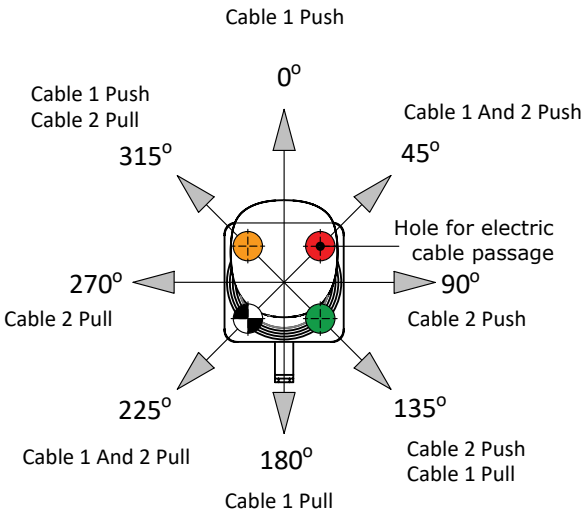
With Triple Button



JS200

Operation And Handle Position

Standart Configuration



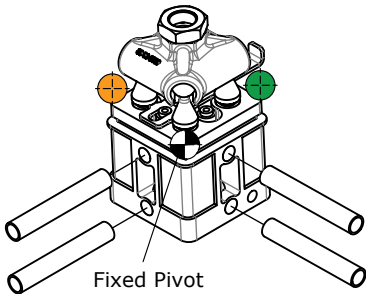
Handle Operation Direction	90°	180°	270°
F Front	Cable 2 Push	Cable 1 Pull	Cable 2 Pull
P Rear	Cable 2 Pull	Cable 1 Push	Cable 2 Push
D Right	Cable 1 Pull	Cable 2 Pull	Cable 1 Push
S Left	Cable 1 Push	Cable 2 Push	Cable 1 Pull

Legend

-  Cable 1
-  Cable 2
-  Fixed Pivot
-  Hole for electric cable passage

Body Mounting

The position of the assembly bushing can be rotated 90° in order to allow the selection of the pilot valve fixing side.

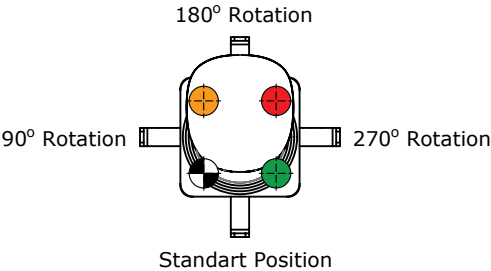


Standart Position

Rotazione 90°

Lock Position

The mechanical lock can be mounted with 90° rotation step; its position refers to pivot's and cables' one.



Standart Position

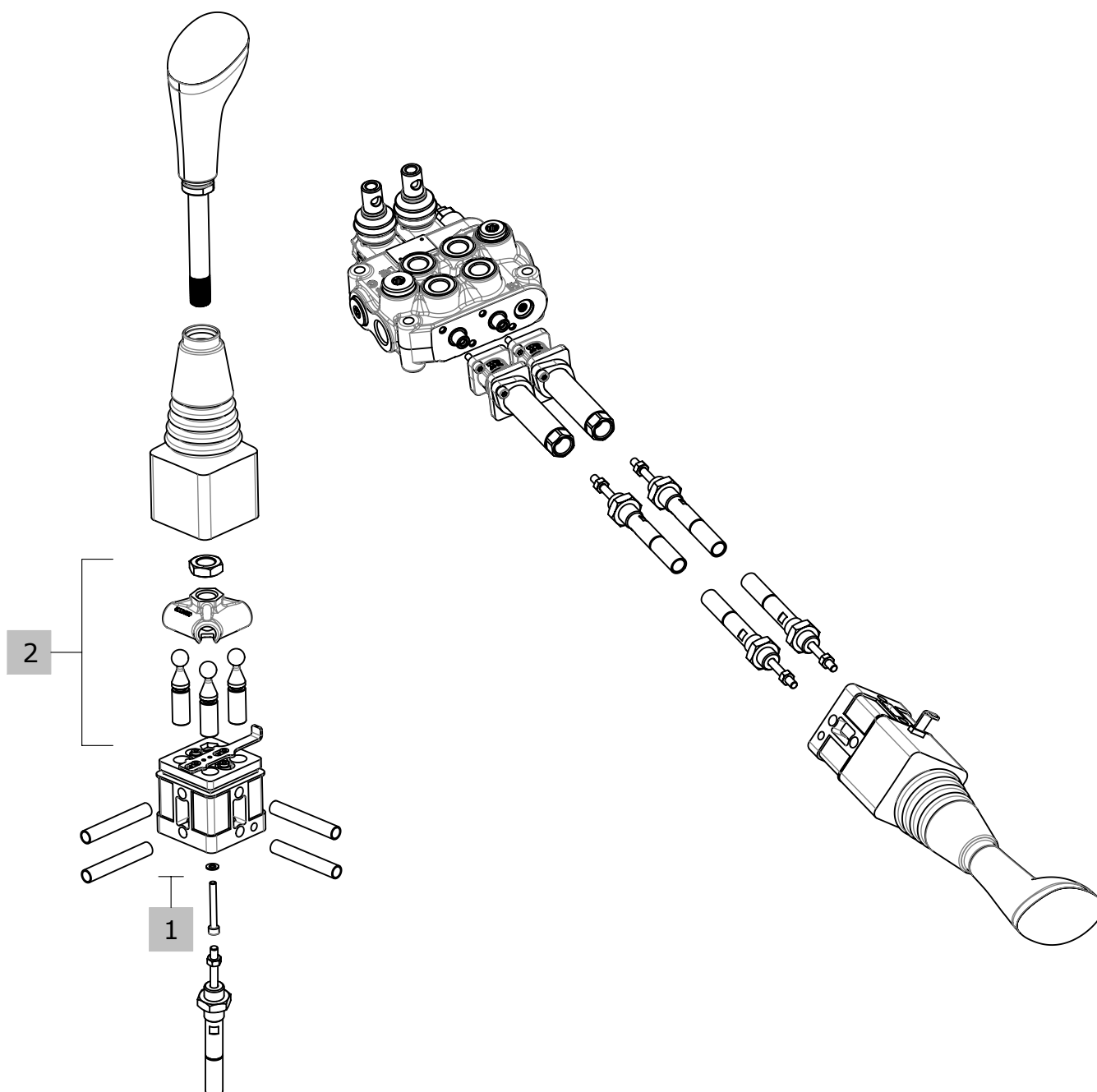
JS200 series

Ordering codes

JS200 / TL

1

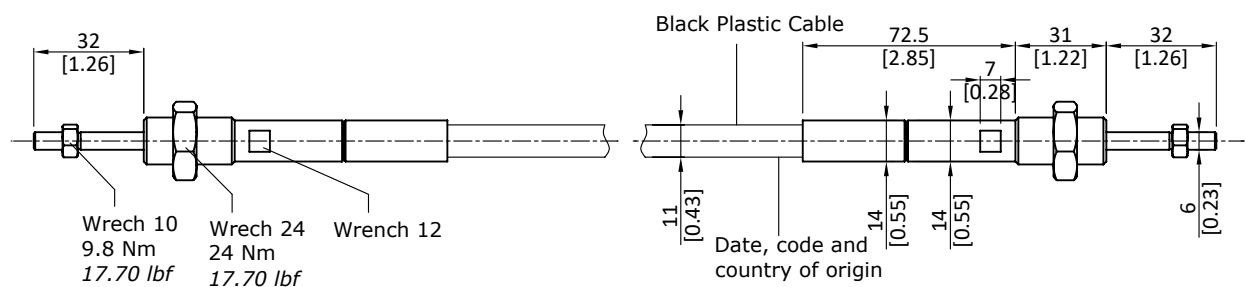
2



Flexible Cables

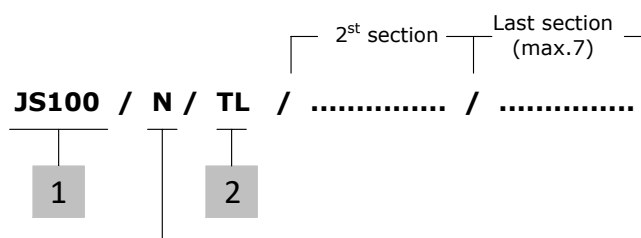
Working Conditions

Max. Load: in traction	1450 N - 340 lbf
in compression	880 N - 198 lbf
Minimum recommended bend radius	R = 150 mm - 5.9 in
Working temperature	from -20 to 80 °C - from -4°F to 176°F
Maximum recommended length	5000 mm - 157.48 in
Flexible polyurethane cable with 5 wires: 0.75 mm2 - 0.0012 in2 (Ø external 5.2 mm - 0.20 in, Ø wire 1.55 mm - 0.06 in) with both turning ends.	



Flexible Cables

Working Conditions



Substitute with number of sections

