



412 - 1412
CONTROL VALVES

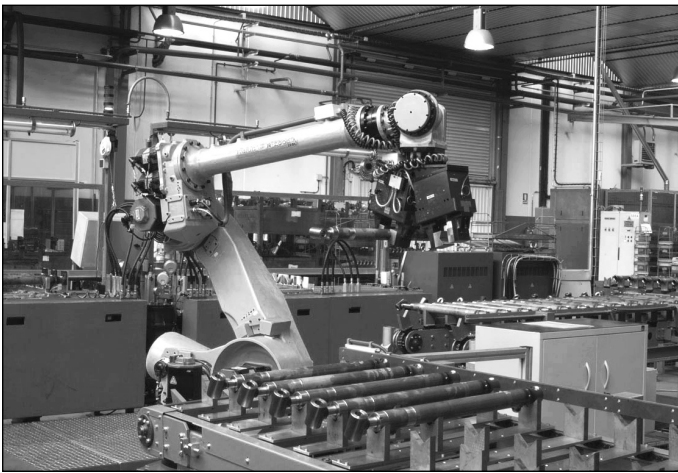
Roquet
making moves

HISTORY Over fifty years experience in fluid power. Supplier to international manufactures of agricultural, construction, mining, mechanical handling, machine-tool and food machinery. Main supplier to the Spanish market with rapidly increasing presence in European and world markets.

TECHNOLOGY Roquet has a large design and development department with substantial fatigue, noise, corrosion-resistance, cleanliness and testing facilities, backed by a well-equipped metallurgical laboratory.

RELIABILITY A broad range of robust products: designed to perform, built to last. All products ranges life-tested under realistic conditions during development to ensure their suitability for use in applications such as tractors, fork-lift trucks, loaders, excavators, cranes, dumpers, dock-levellers... Each and every product tested to a stringent test specification prior to shipment.

CAPABILITY 400 well trained employees. Four factories with a total floor area of 30.000m² Current production 180.000 pumps, 300.000 control valve bodies, 500.000 cylinders and 30.000 power packs per year. Distribution network in over 35 countries.



This range of directional control valves is primarily intended for applications such as construction, material handling and agricultural machinery etc.

The valves are actuated by hand-levers, pneumatic operated, cable operated, etc.

Auxiliary valves can be fitted in each port.

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This Catalogue shows the product in the most standard configuration; customized or special designs are also available, please contact to PEDRO ROQUET S.A. The specifications and data in this catalogue are not open to any interpretation, please contact with PEDRO ROQUET S.A. in case of doubt.

PEDRO ROQUET S.A. reserves the right to modify, update or revise this catalogue without prior notice.

PEDRO ROQUET S.A. IS NOT RESPONSABLE FOR ANY DAMAGE CAUSED BY AN INCORRECT USE OF THE PRODUCT.

412

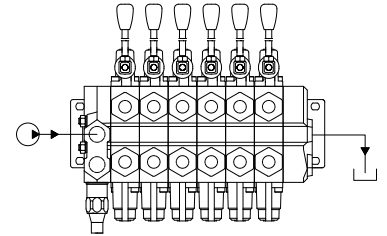
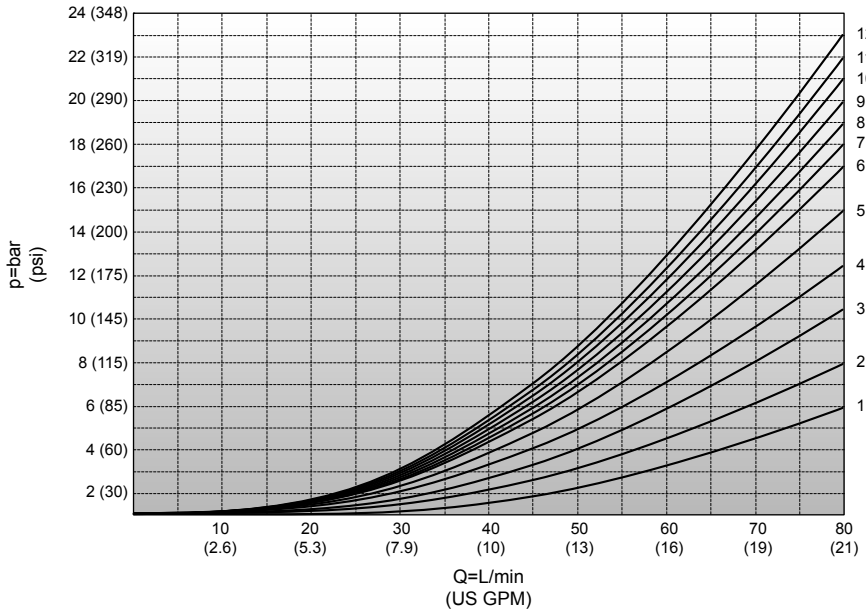


Technical data

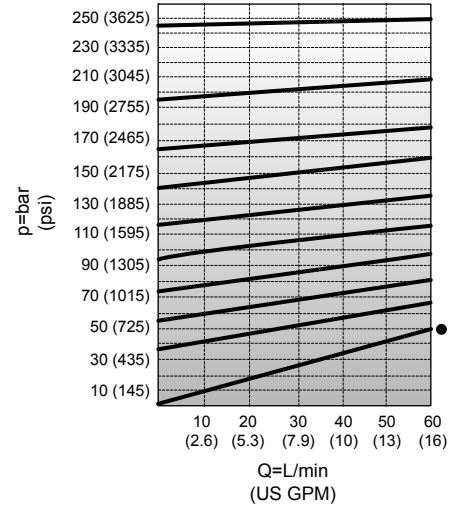
CONTROL VALVES TYPE		412	1412
Ports A and B		3/8" G.	1/2" G.
Ports P and T		1/2" G.	1/2" G.
Maximum spool quantity		12	
Spool diameter (mm)		15	
Spool stroke (mm)		5	
Type		Parallel	
Nominal flow		50 (l/min.) / 13 (US GPM)	
Working max. pressure		350 bar / 5075 psi	
Return max. pressure T port	Static spool	80 bar / 1160 psi	
	During spool positioning	20 bar / 290 psi	
Spool force		18 Kg / 40 Lb	
Fluid to be used		ISO 6742 mineral-oil-based hydraulic fluid	
Temperature range (NBR)		-20°C...+80°C (-4° F...+176° F)	
Viscosity range		ISO 3448 CAT. VG22-VG68	
Recommended fluid cleanliness		16/13 s./ ISO 4406 - NAS 10	

Diagrams

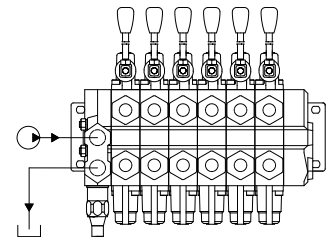
P→T



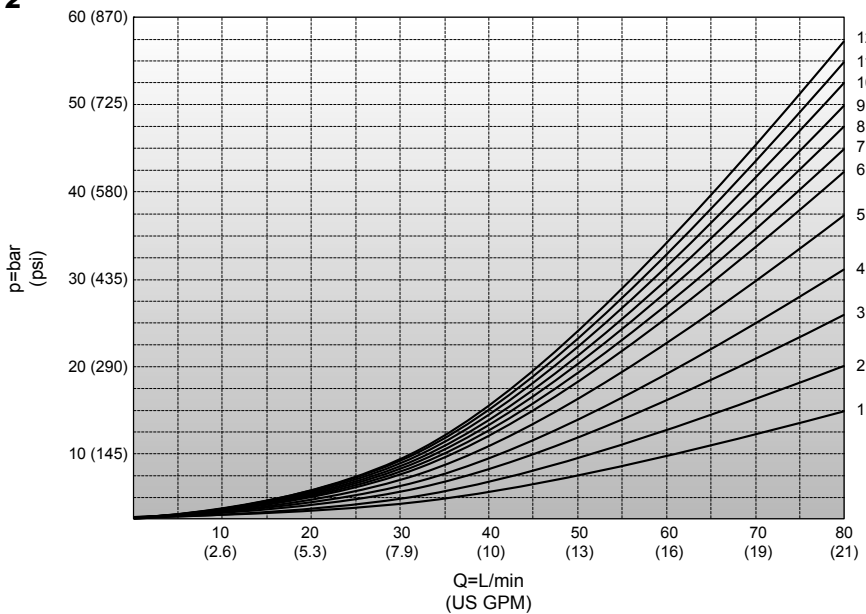
Relief valve



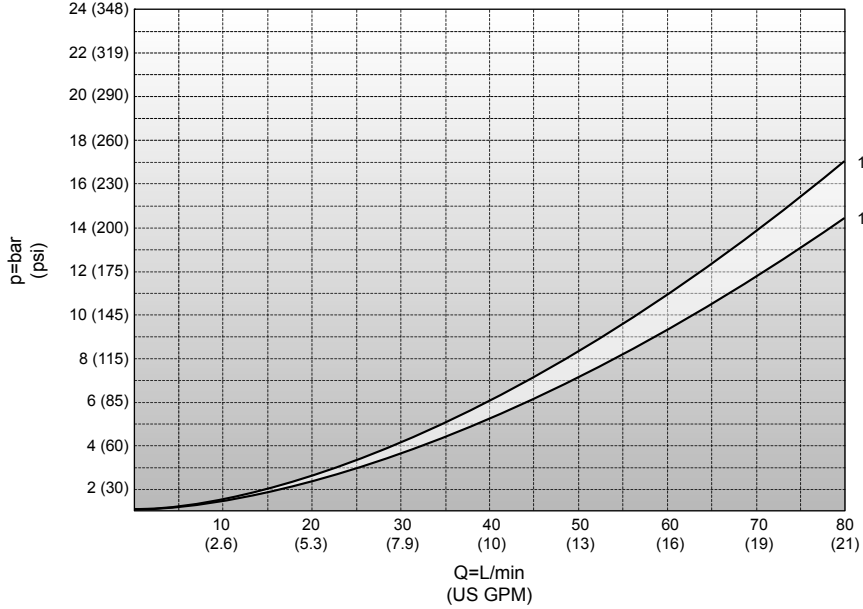
● Minimal pressure curve



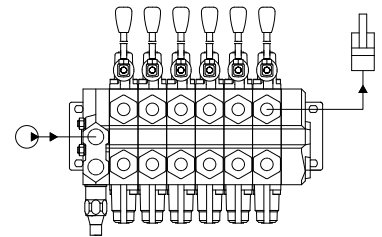
P→T2



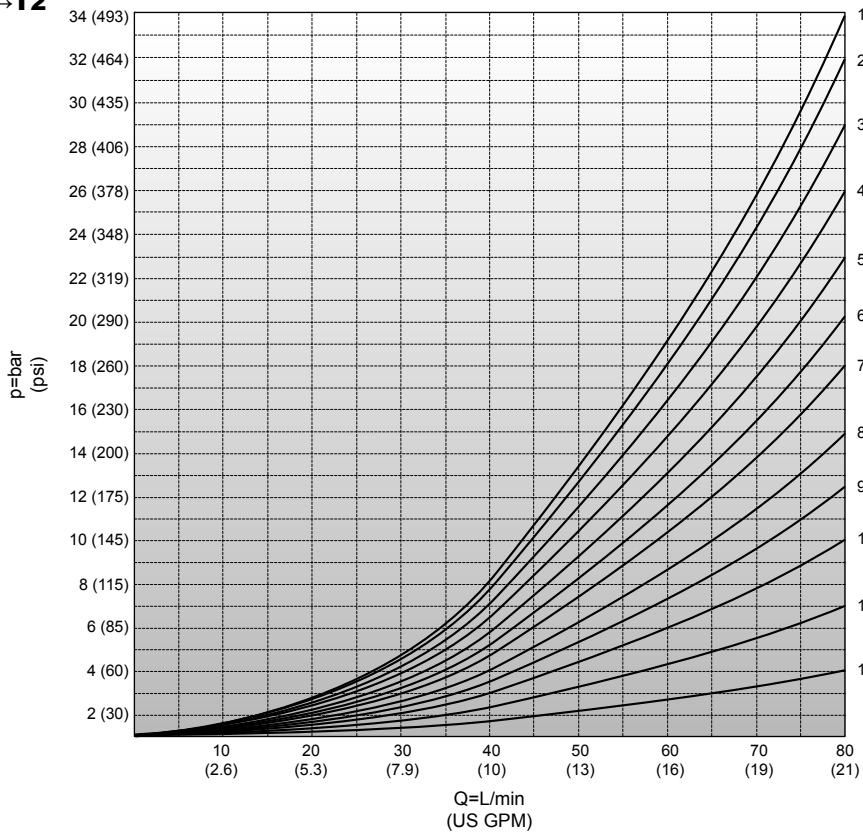
P→A or B



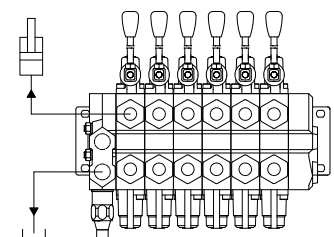
From 1 to 12 elements

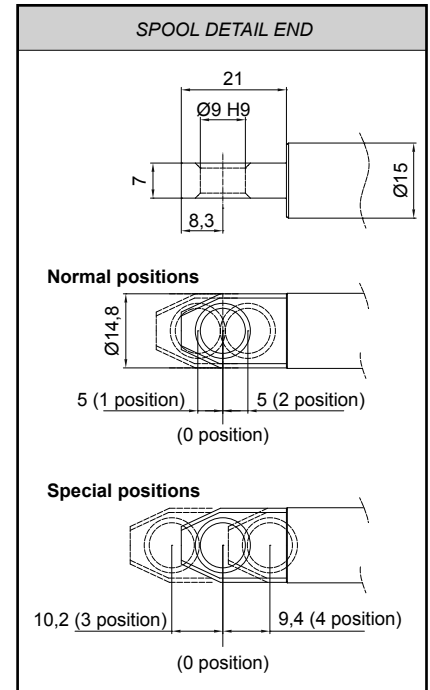
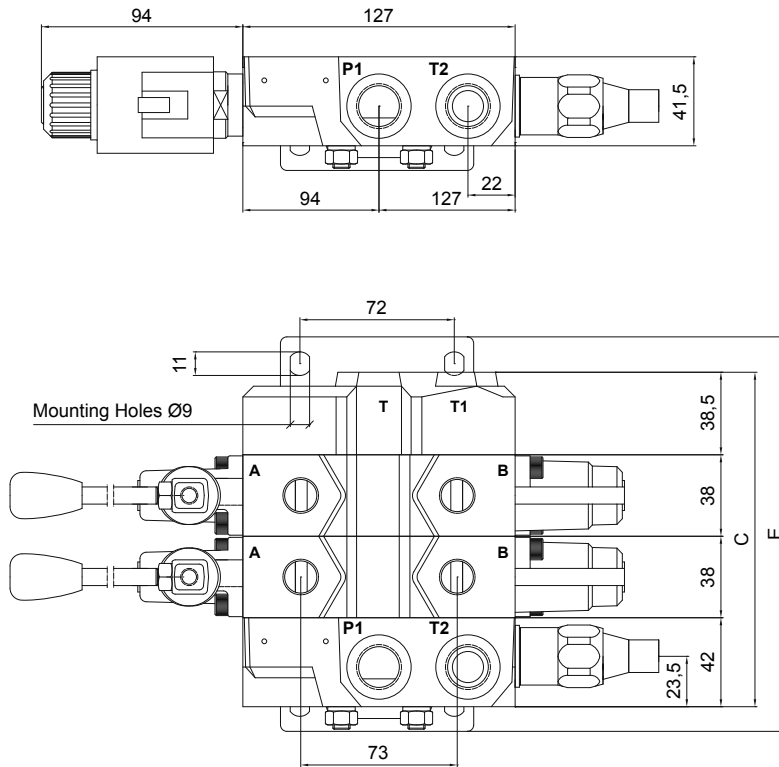
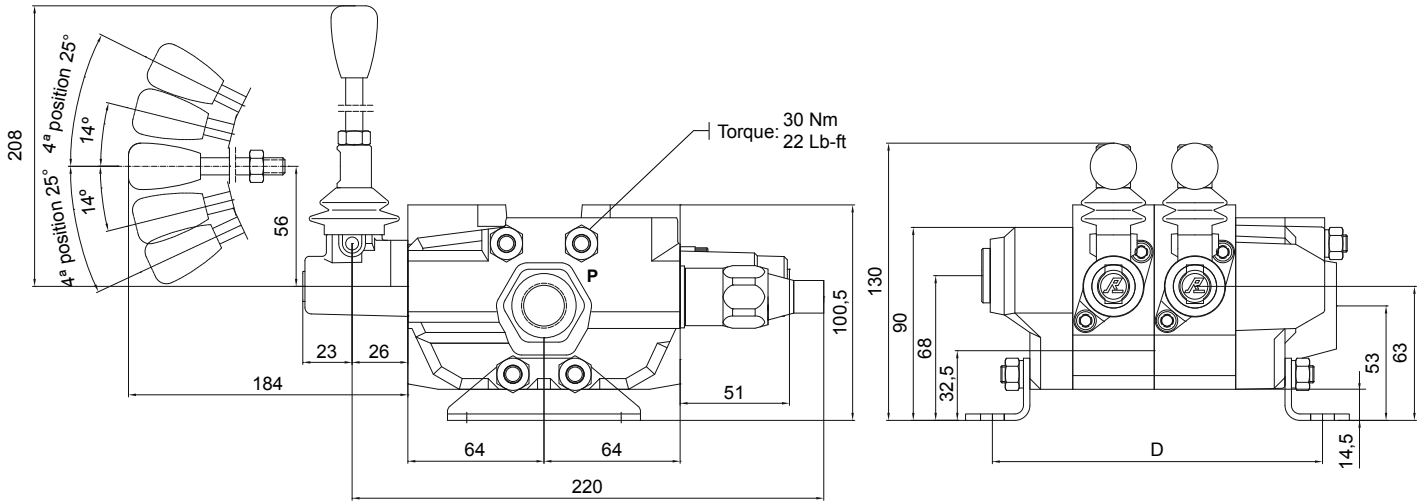


A or B→T2



Final section





P-P1	Pressure ports
A-B	Work ports

FREE FLOW

T-T1-T2	All are tank ports
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POWER BEYOND

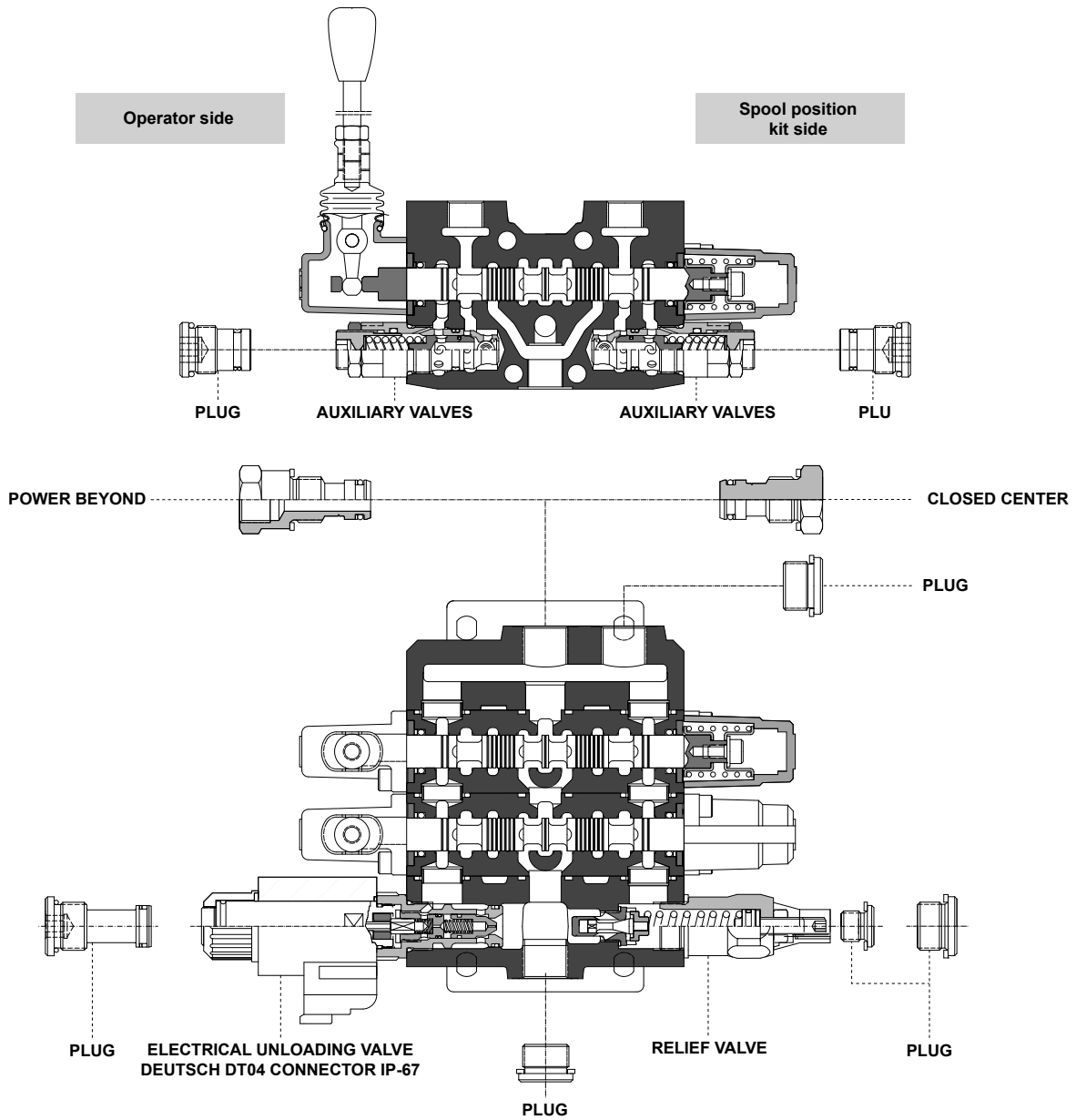
T	Power
T1-T2	Tank port

CLOSED CENTER

T	Closed
T1-T2	Tank port

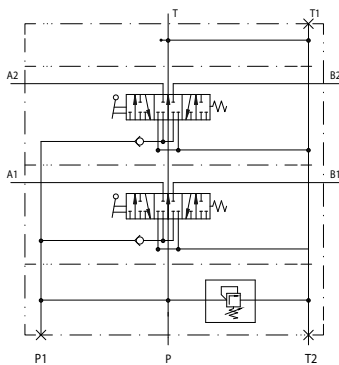
NOTE:
Port A is always next to operator side even if the section is assembled with levers on the other side.

Spool count	1	2	3	4	5	6	7	8	9	10	11	12
C (mm)	118	156	194	232	270	308	346	384	422	460	498	536
D (mm)	116	154	192	230	268	306	345	382	420	458	496	534
E (mm)	146	184	222	260	298	336	374	412	450	488	526	564
Weight in kg	5	8	11	14	17	20	23	26	29	32	35	38
Weight in Lb	11	17,5	24,3	31	37,5	44,3	51	57,5	64,3	71	77,5	84,3

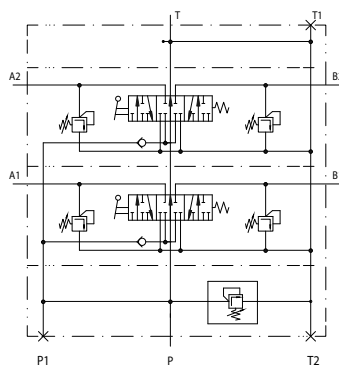


Hydraulic circuit

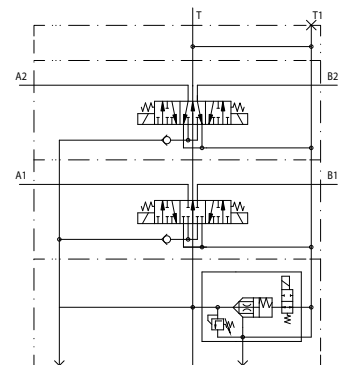
Hydraulic scheme with main relief valve.

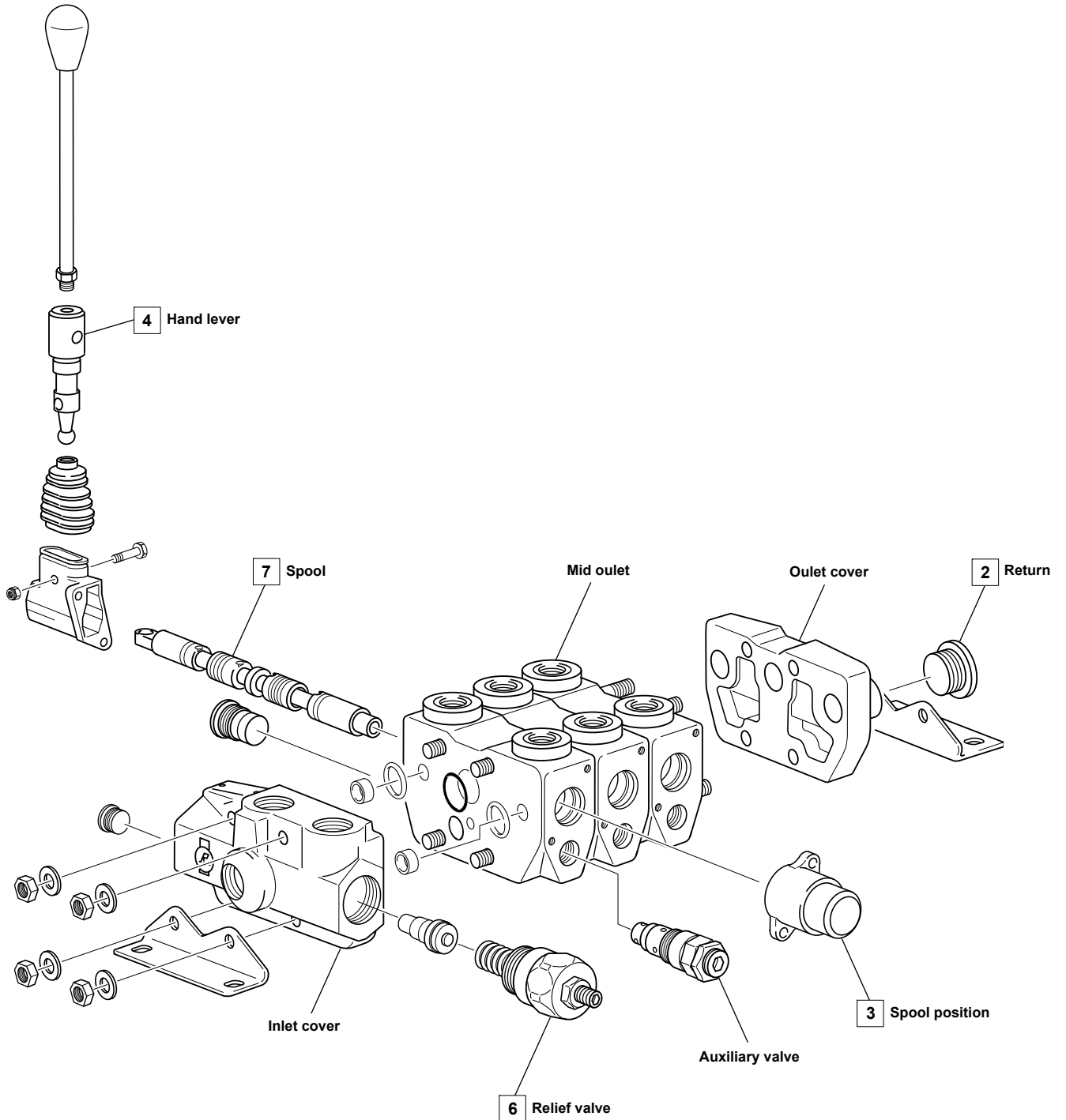


Hydraulic scheme with main relief valve and auxiliary valves.

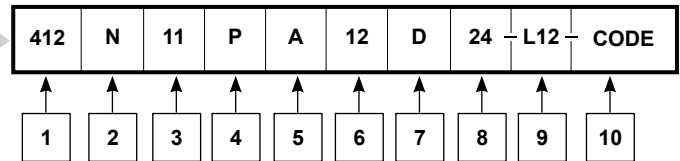


Hydraulic scheme with main relief valve and unloading valve.





OPERATING SECTIONS



1	Control valve type
412	Port A - B 3/8" G.
1412	Port A - B 1/2" G.

2	Return configuration
N	Open center both valves.
Z	Power beyond both valves.
C	Closed center both valves.

3	Spool position kits
2	Three positions with detent.
7	Two positions with detent, third position return by spring.
9	Two ends positions with detent.
11	Three positions return to neutral by spring.
14	Two positions, neutral and end position by detent, action pushing spool.
20	Four positions three return by spring the fourth detented, pulling spool.
22	Three positions pneumatic pilot (see more inf. page 25).
24	Two positions, neutral and end position by detent, action pulling spool.
29	Three positions. Central by spring and two end positions with detent.
35	Three positions. Rotative device with detent in neutral position.
36	One end position and neutral position with detents, action pushing spool; and other end position by spring, action pulling spool.
71	Three positions hydraulic piloted (see more inf. page 24).
74	One end position with detent, action pulling spool; Neutral and other end position by spring, action pushing spool.
75	One end position with detent, action pushing spool; Neutral and other end position by spring, action pulling spool.
83	Direct solenoid operated, three positions spring centered (see more inf. page 21, 22).
84	Direct solenoid operated, two positions (center + one end). Solenoid side port A. (see more inf. page 21, 22).

4	Operators
X	Mechanical joystick or special options.
Y	Hydraulic pilot (see more inf. page 24).
P2	Lever box with lever and rubber boot.
D2	Lever box with rubber boot, inverted 180°.
Z2	Lever box with rubber boot and without lever.
PI	Extension lever box with rubber boot inverted 180°.
T	Spool end cap.
S	Open spool end (no lever box).
I	Cable control.
E	Electrical control with DEUTSCH connector without diode, only for 83, 84 spool position kit.
ME	Emergency operator with DEUTSCH connector without diode, only for 83, 84 spool position kit.
R	Rotative operator.

5	Main relief valve position
Standard	

6	Auxiliary valve pressure range (pressure set at 22l/min.)		
Adjustment			
Adjustable	Tamper-proof	Pressure range bar	Pressure range psi
11	41	5-80 (80)	70-1100 (1100)
12	42	85-175 (160)	1200-2500 (2200)
13	43	180-250 (200)	2600-3600 (2900)
14	44	255-350 (315)	3700-5000 (4600)
00		Without cavity for valve.	

7	Spool types
D	3 position, 4-way, double acting, A and B ports blocked in 0 position.
I	3 position, 4-way, double acting, A and B ports open to tank in 0 position.
U	3 position, 4-way, double acting, A and B ports restricted to tank in 0 position.
S	3 position, 3-way, single acting, A port blocked in position 0, B port plugged.
V	3 position, 3-way, single acting, B port blocked in position 0, A port plugged.
L	4 position, 4-way, double acting, A and B port blocked in position 0, 4th position float.

8	D.C. VOLTAGE (Only for spool position kits 83, 84)
12	12 V
24	24 V

9	With electrical unloading valve
E12	DEUTSCH connector 12 V.
E24	DEUTSCH connector 24 V.
L12	HIRSCHMANN connector 12 V.
L24	HIRSCHMANN connector 24 V.
L0	Plug.
HP	Hydraulic piloted.

10	CODE
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INLET SECTION

412 / CV - 11 - 24 - S - CODE

Control valve type	
412	

Front cover type	
CV	Front cover with relief valve.
SV	Front cover without relief valve.

Main relief valve pressure range standard (pressure set at 22l/min)			
Adjustment		Pressure range bar	Pressure range psi
Adjustable	Tamper-proof		
11	41	5-80 (80)	70-1100 (1100)
12	42	85-175 (160)	1200-2500 (2200)
13	43	180-250 (200)	2600-3600 (2900)
14	44	255-350 (315)	3700-5000 (4600)
00		Without main relief valve (for SV front cover type)	

Code	
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Operative pressure port	
S	Side port (P1 plugged).
T	Top port (P plugged).

With electrical unloading valve	
E12	DEUTSCH connector 12 V.
E24	DEUTSCH connector 24 V.
L12	HIRSCHMANN connector 12 V.
L24	HIRSCHMANN connector 24 V.
L0	Plug.
HP	Hydraulic piloted.
00	Without cavity for unloading valve.

OUTLET SECTION

412 / CF - N - S - CODE

Control valve type	
412	

Outlet	
CF	Outlet cover.

Code	
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Operative tank port	
S	Side port (T1 plugged).
A	Turn around port (T plugged).

Return configuration	
N	Open center.
Z	Power beyond.
C	Closed center.

MID-OUTLET SECTION

412 / CIA - N - S - CODE

Control valve type	
412	

Control valve type	
CIA	Side port in A side.
CIB	Side port in B side.

Code	
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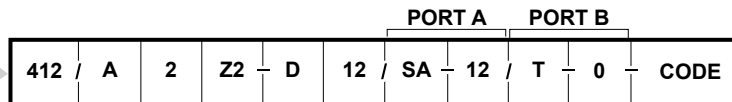
Operative tank port	
S	Side port (T plugged).
A	Turn around port (T and T1 plugged).
T	Top port (T1 plugged).
00	For closed center or power beyond.

Return configuration	
N	Open center both valves.
Z	Power beyond both valves.
C	Closed center both valves.
K	Closed center-Open center.

NOTE 1:
CIA and CIB its the same components, just rotated 180° when is assembled a complete control valve.

NOTE 2:
406 and 1406 control valves; inlet, outlet and mid-outlet sections are the same

OPERATING SECTIONS



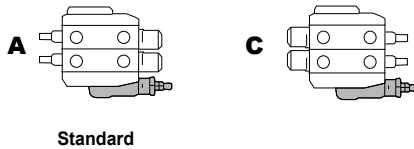
Code

Microswitch
(page: 29)

Control valve type

412	Port A - B 3/8" G.
1412	Port A - B 1/2" G.
422	Pilot operated check valve A - B 3/8" G.

Main relief valve position



Auxiliary valve pressure range (pressure set at 22l/min.)

Adjustment		Pressure range bar	Pressure range psi
Adjustable	Tamper-proof		
11	41	5-80 (80)	70-1100 (1100)
12	42	85-175 (160)	1200-2500 (2200)
13	43	180-250 (200)	2600-3600 (2900)
14	44	255-350 (315)	3700-5000 (4600)
0		Without valve.	

Auxiliary valves

VA	Port relief and anticavitation valve.
SA	Port relief valve.
A	Anticavitation.
T	Plug.
0	Section without cavity for valves.

D.C. VOLTAGE (Only for spool position kits 83, 84)

12	12 V
24	24 V
00	When spool position kit is different to 83 or 84.

Spool position kits

02	Three positions with detent.
07	Two positions with detent, third position return by spring.
09	Two ends positions with detent.
11	Three positions return to neutral by spring.
14	Two positions, neutral and end position by detent, action pushing spool.
20	Four positions three return by spring the fourth detented, pulling spool.
22	Three positions pneumatic pilot (see more inf. page 25).
24	Two positions, neutral and end position by detent, action pulling spool.
29	Three positions. Central by spring and two end positions with detent.
35	Three positions. Rotative device with detent in neutral position.
36	One end position and neutral position with detents, action pushing spool; and other end position by spring, action pulling spool.
71	Three positions hydraulic piloted (see more inf. page 24).
74	One end position with detent, action pulling spool; Neutral and other end position by spring, action pushing spool.
75	One end position with detent, action pushing spool; Neutral and other end position by spring, action pulling spool.
83	Direct solenoid operated, three positions spring centered (see more inf. page 21, 22).
84	Direct solenoid operated, two positions (center + one end). Solenoid side port A. (see more inf. page 21, 22).

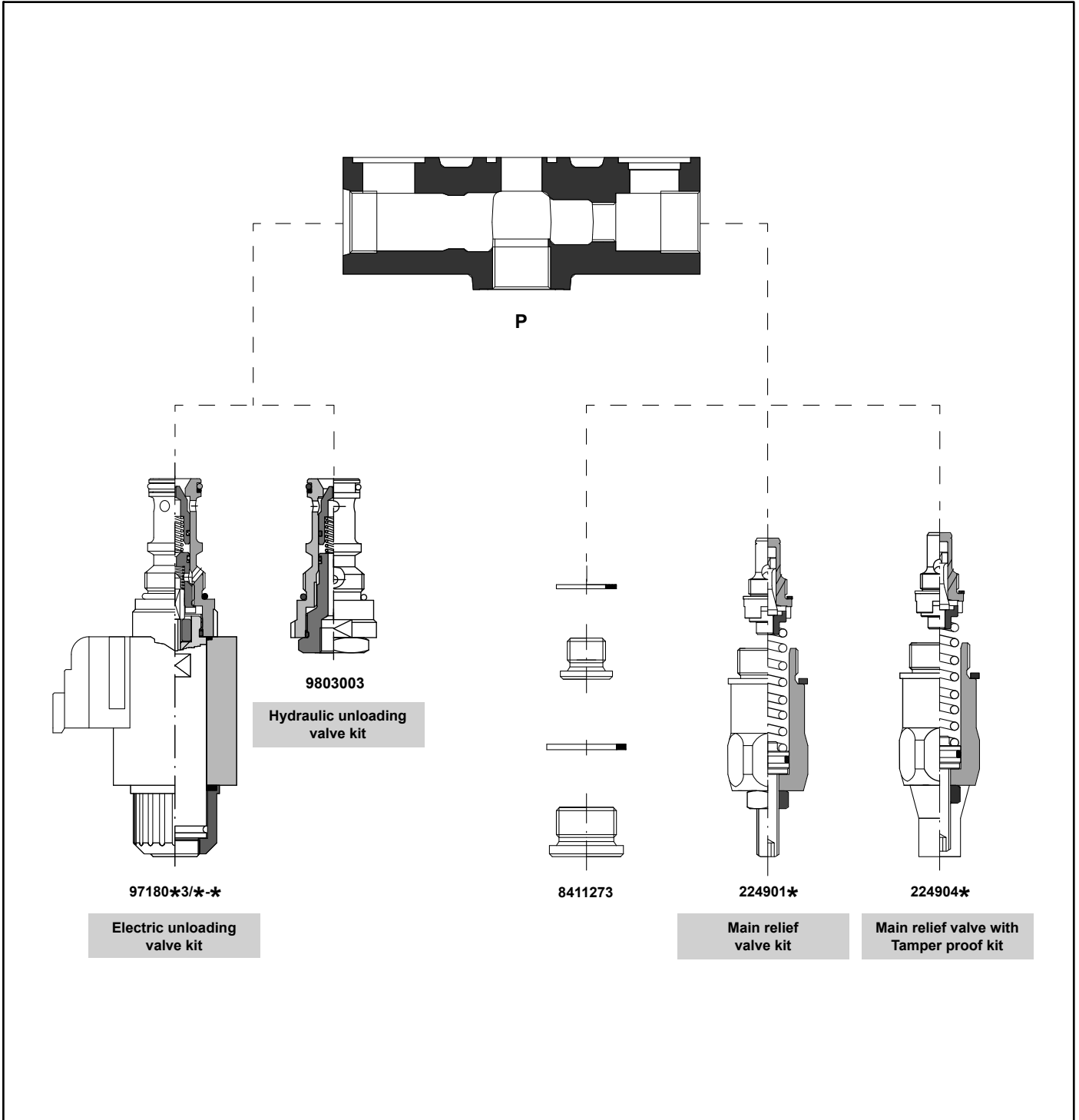
Spool types

D	3 position, 4-way, double acting, A and B ports blocked in 0 position.
I	3 position, 4-way, double acting, A and B ports open to tank in 0 position.
U	3 position, 4-way, double acting, A and B ports restricted to tank in 0 position.
S	3 position, 3-way, single acting, A port blocked in position 0, B port plugged.
V	3 position, 3-way, single acting, B port blocked in position 0, A port plugged.
L	4 position, 4-way, double acting, A and B port blocked in position 0, 4th position float.

Operators

X	Mechanical joystick or special options.
Y	Hydraulic pilot (see more inf. page 24).
P2	Lever box with lever and rubber boot.
D2	Lever box with rubber boot, inverted 180°.
Z2	Lever box with rubber boot and without lever.
PI	Extension lever box with rubber boot inverted 180°.
T	Spool end cap.
S	Open spool end (no lever box).
I	Cable control.
E	Electrical control with DEUTSCH connector without diode, only for 83, 84 spool position kit.
ME	Emergency operator with DEUTSCH connector without diode, only for 83, 84 spool position kit.
R	Rotative operator.

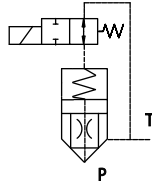
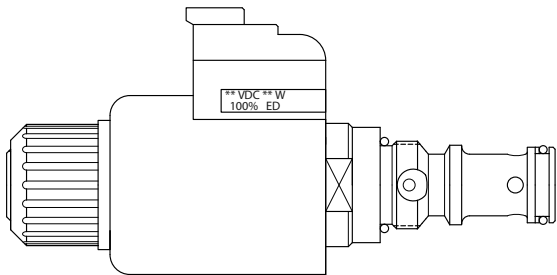
Main relief valve and unloading valve



Main relief valve (pressure set at 22l/min)						
Pressure range		Adjustable	Tamper-proof	Tamper-proof P.N.	Hat P.N.	Spring P.N.
5-80 (80) bar	70-1100 (1100) psi	11	41	6420/28	Estándar	714/8/1
85-175 (160) bar	1200-2500 (2200) psi	12	42			1671/23
180-250 (200) bar	2600-3600 (2900) psi	13	43			Estándar
255-350 (315) bar	3700-5000 (4600) psi	14	44		2249/29	1670/234

Unloading valve

ELECTRIC



Part number

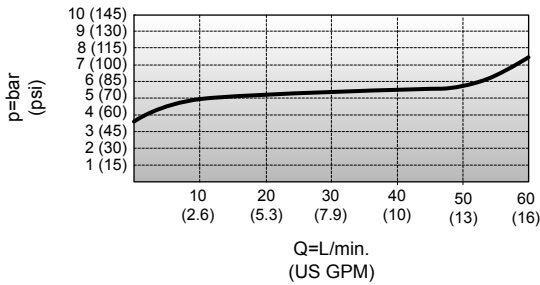
97180*3/*-*

Connector type	
0	HIRSCHMANN
2	DEUTSCH

Power (W)	
30	30 W

Voltage (DC)	
D12	12 V
D24	24 V

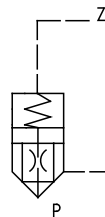
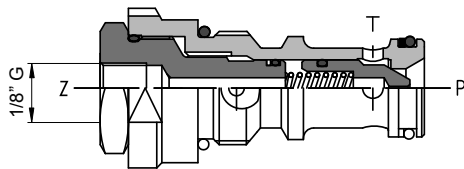
Unloading electric valve



Technical data	
Opening pressure	4-5 bar / 58-72 psi
Nominal flow	50 L./min. / 13 (US GPM)
Max. work pressure	350 bar / 5075 psi
Max. return pressure	80 bar / 1160 psi
Min. pressure form P to T	6 bar / 87 psi
Viscosity range	ISO 3448 cat. VG22-VG68
Hydraulic fluid temperature range	-20°C a +80°C / -4°F a +176°F)
Control voltage	DC 12V - 24V
Duty cicle	100%
Protection DIN 40050	DEUTSCH IP-67 HIRSCHMANN IP-65

HYDRAULIC

Part number 9803003

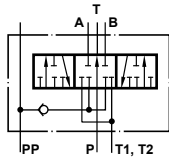


Technical data	
Opening pressure	4-5 bar / 58-72 psi
Nominal flow	50 L./min. / 13 (US GPM)
Max. work pressure	350 bar / 5075 psi
Max. return pressure	80 bar / 1160 psi
Min. pressure form P to T	6 bar / 87 psi
Viscosity range	ISO 3448 cat. VG22-VG68
Hydraulic fluid temperature range	-20°C...+80°C / -4°F...+176°F)

Spool types

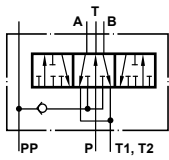
D

3 position, 4-way, double acting, A and B ports blocked in 0 position.



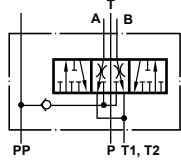
I

3 position, 4-way, double acting, A and B ports open to tank in 0 position.



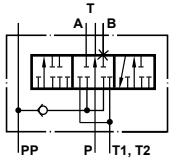
U

3 position, 4 -way, double acting, A and B ports restricted to tank in 0 position.



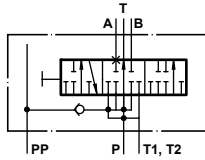
S

3 position, 3 -way, single acting, A port blocked in position 0, B port plugged.



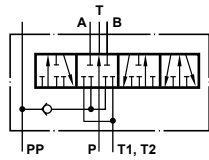
V

3 position, 3-way, single acting, B port blocked in position 0, A port plugged.



L

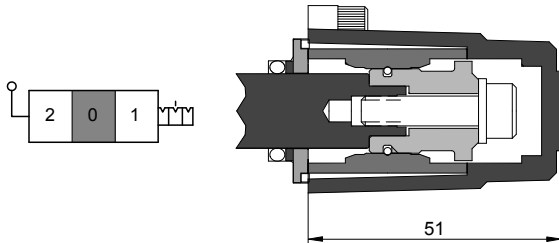
4 position, 4-way, double acting, A and B port blocked in position 0, 4th position float.



Spool position kits

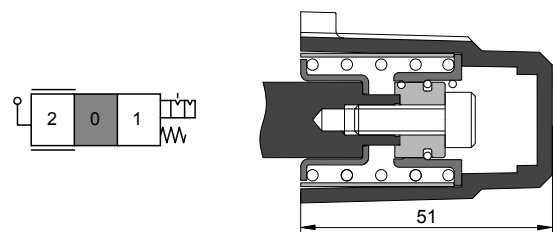
2 P.N. M7799/5/2

Three positions with detent.



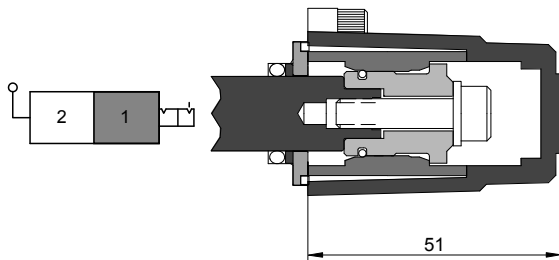
7 P.N. M7799/5/7

Two positions with detent, third position return by spring.



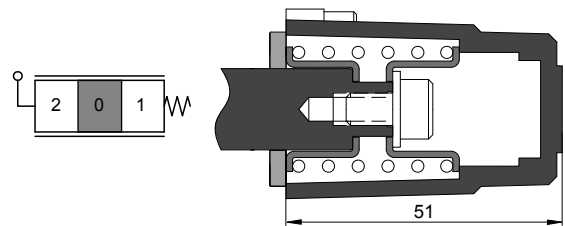
9 P.N. M7799/5/9

Two ends positions with detent.



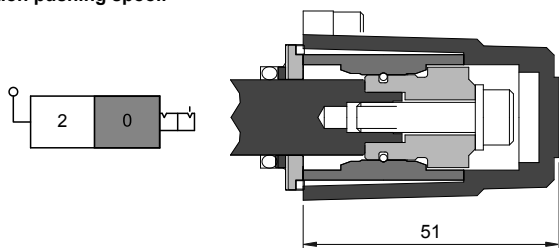
11 M7799/5/11

Three positions return to neutral by spring.



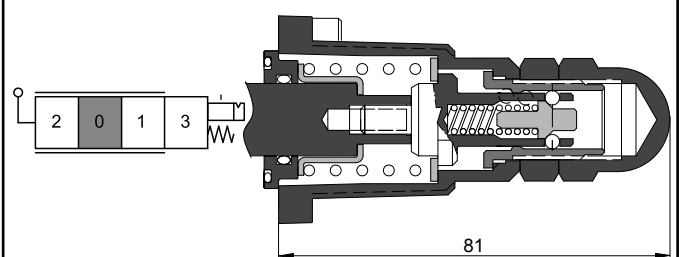
14 P.N. M8412/221

Two positions, neutral and end position by detent, action pushing spool.



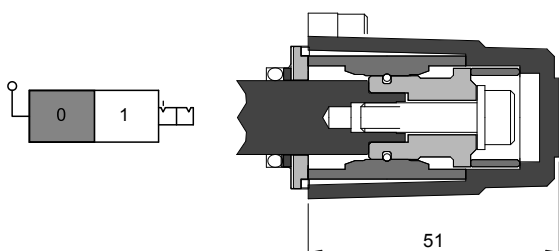
20 P.N. M8412/176

Four positions three return by spring the fourth detented pulling spool.



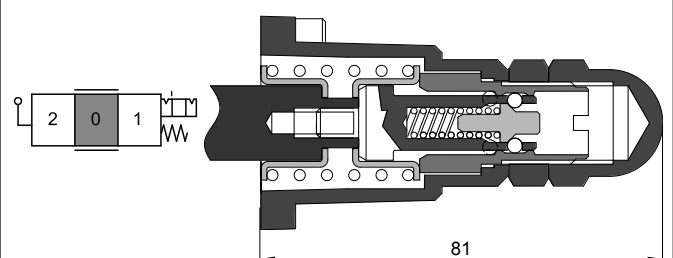
24 P.N. M7799/183

Two positions, neutral and end position by detent, action pulling spool.



29 P.N. M7799/5/29

Three positions. Central by spring and two end positions with detent.

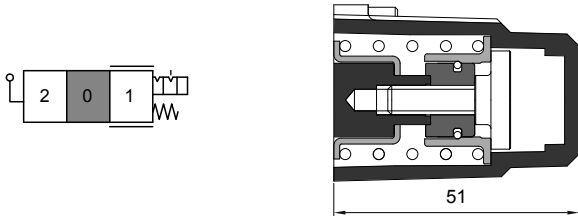


Spool position kits

36

P.N. M7799/5/36

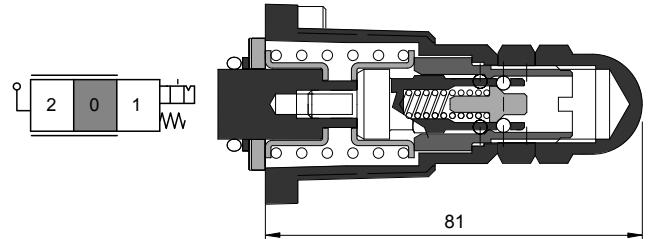
One end position and neutral position with detents, action pushing spool; and other end position by spring, action pulling spool.



74

P.N. M8412/226

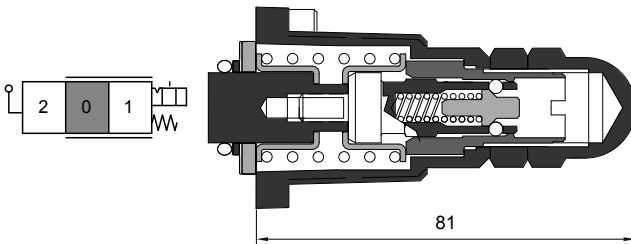
One end position with detent, action pulling spool; Neutral and other end position by spring, action pushing spool.



75

P.N. M8412/227

One end position with detent, action pushing spool; Neutral and other end position by spring, action pulling spool.



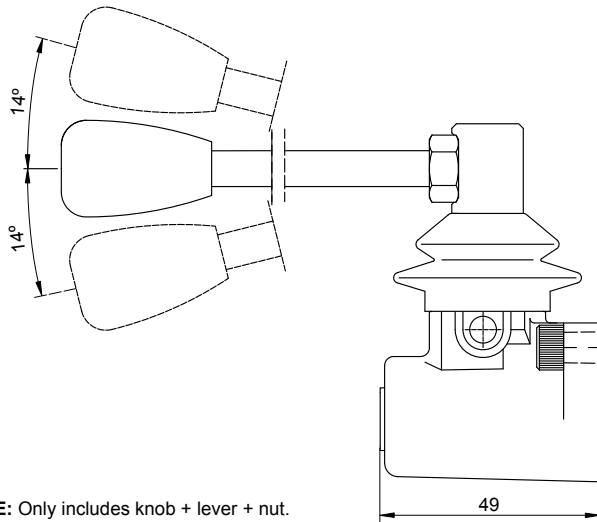
Operators

Lever box with lever

P.N. 8412267

P2

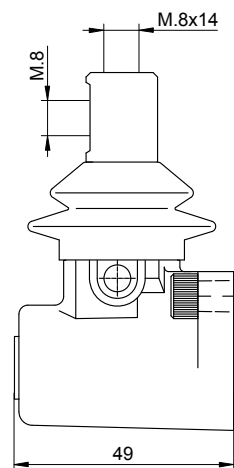
D2 Is the same operator rotated 180° but de not allow port vales options



NOTE: Only includes knob + lever + nut.

Lever box without lever
(Standard)

Z2

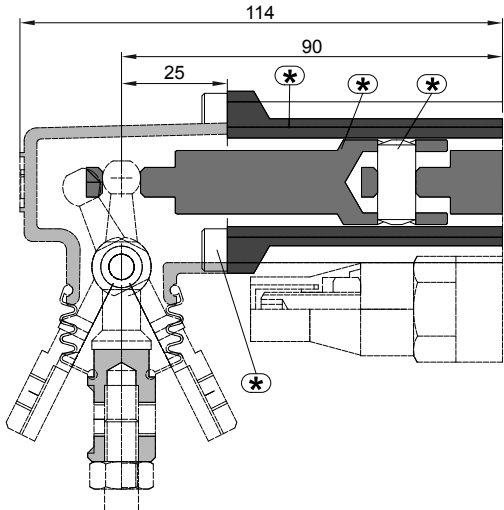


Operators

Extension lever box with rubber boot rotated 180°

P.N. 7799/166

PI

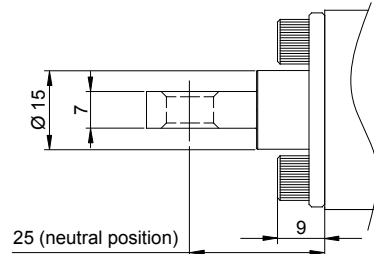


NOTE:
Only includes pieces with mark *

Open spool end (no lever box)

P.N. M7799/6/4

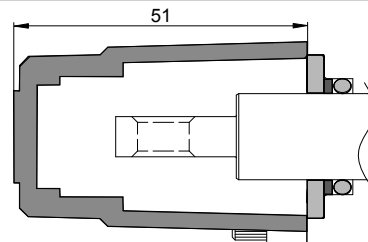
S



Spool end cap

P.N. M7799/6/5

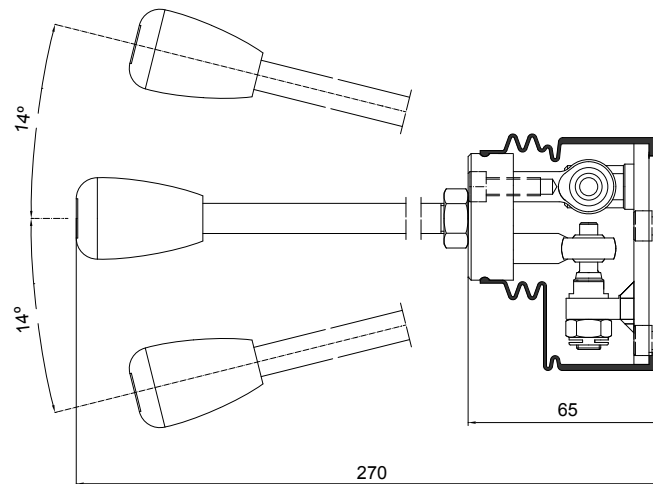
T



Mechanical joystick

P.N. M7799/123

X

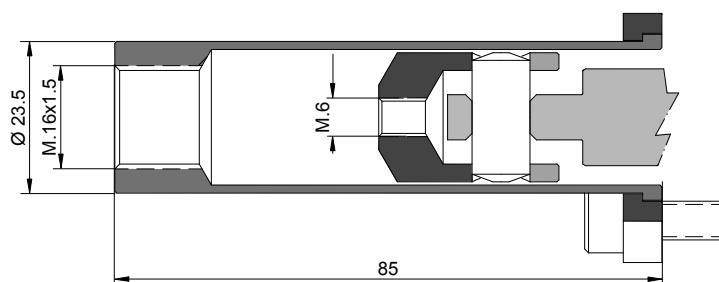


NOTE:
14° degree at all directions.

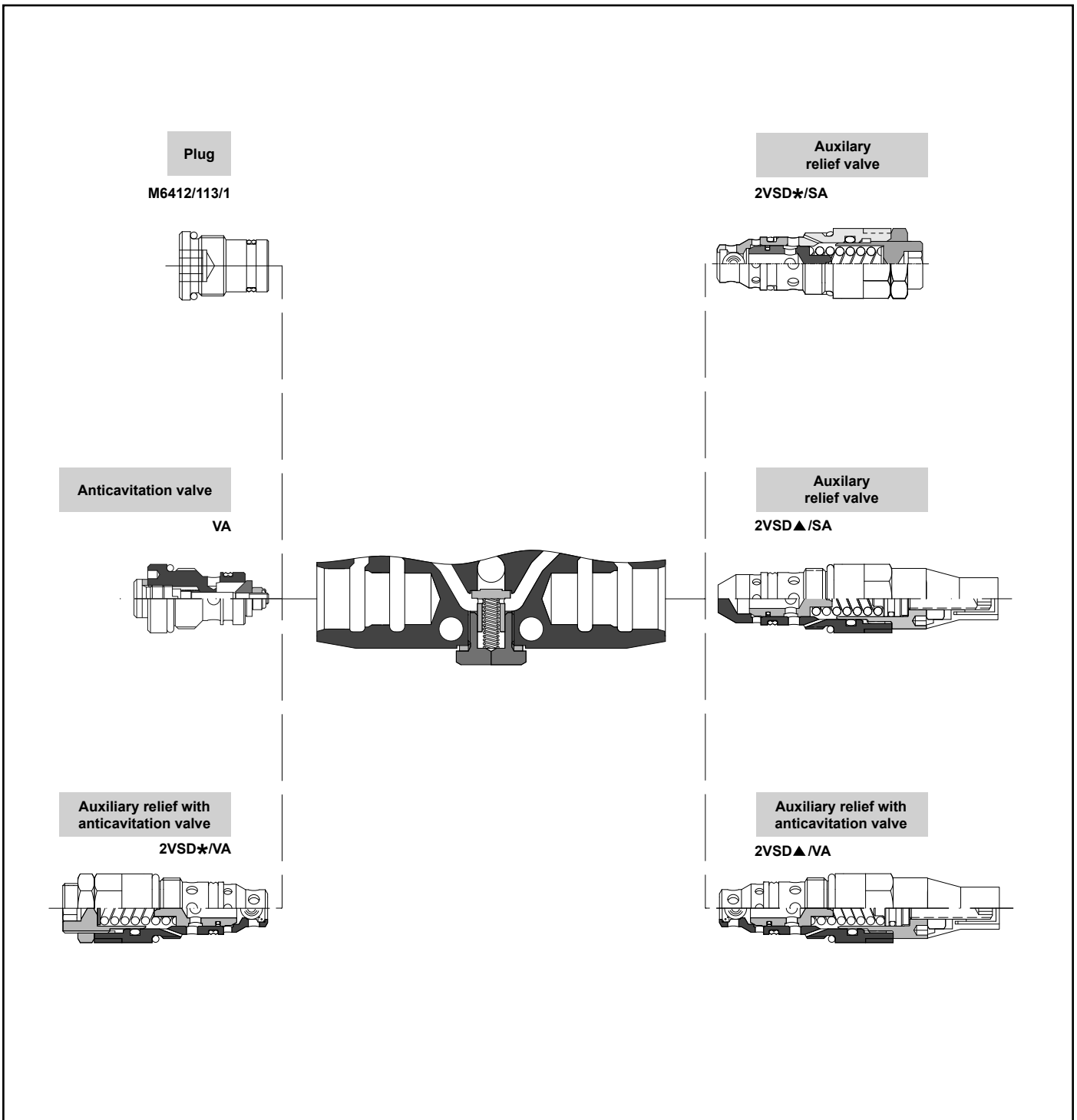
Cable control

P.N. M7799/6/1

I



Auxiliary valves



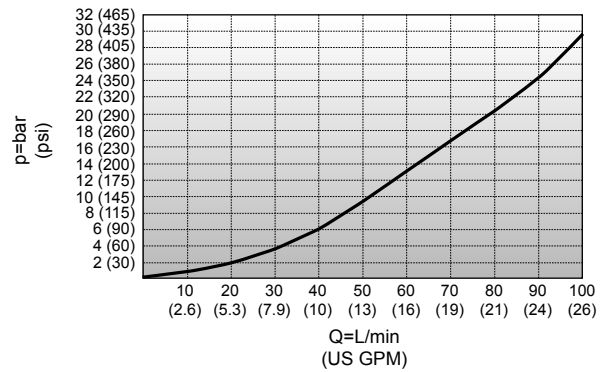
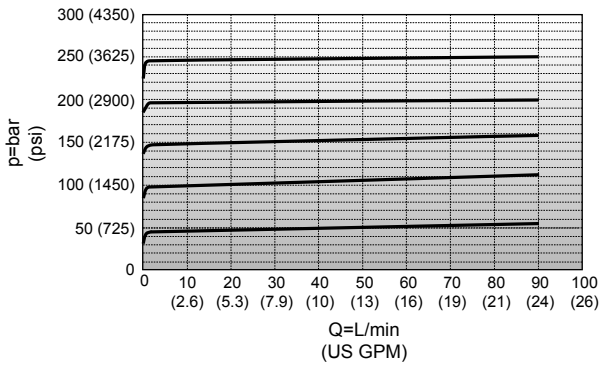
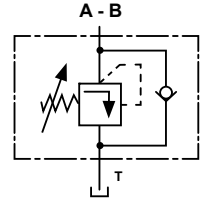
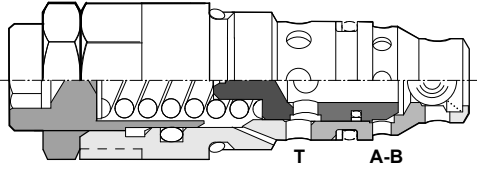
Port relief pressure setting (pressure set at 12l. min)			
Adjustable *	Tamper-proof ▲	Pressure ranges	
11	41	5-80 (80) bar	70-1100 (1100) psi
12	42	85-175 (160) bar	1200-2500 (2200) psi
13	43	190-250 (200) bar	2600-3600 (2900) psi
14	44	255-350 (315) bar	3700-5000 (4600) psi

Replaced * and ▲ for the setting pressure (see table).

Auxiliary valves

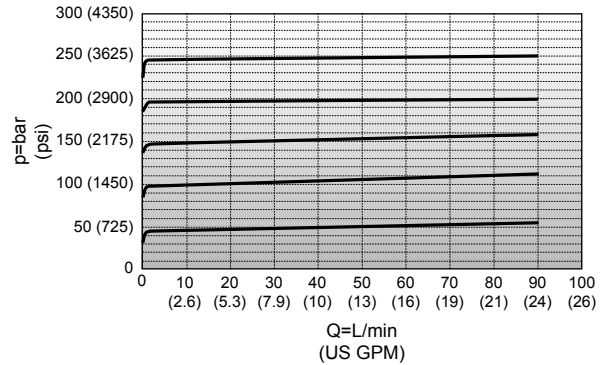
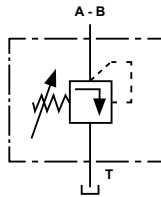
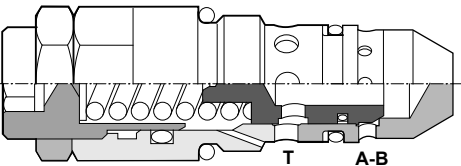
Port relief and anticavitation valve

Adjustable P.N. 2VSD*/VA
Tamper-proof P.N. 2VSD▲/VA



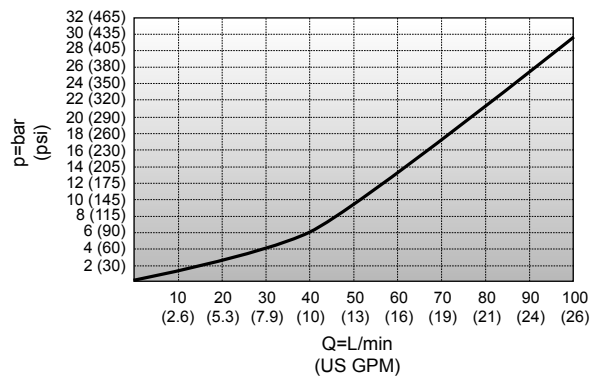
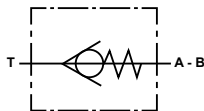
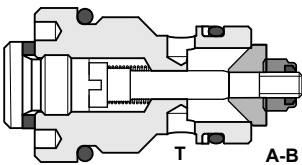
Port relief valve

Adjustable P.N. 2VSD*/SA
Tamper-proof P.N. 2VSD▲/SA



Anticavitation

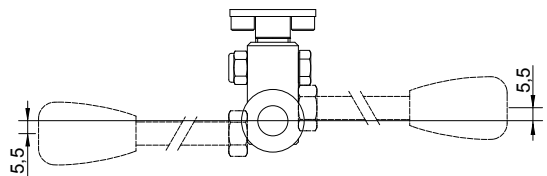
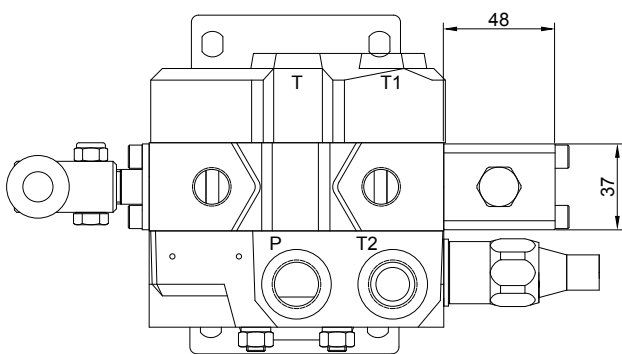
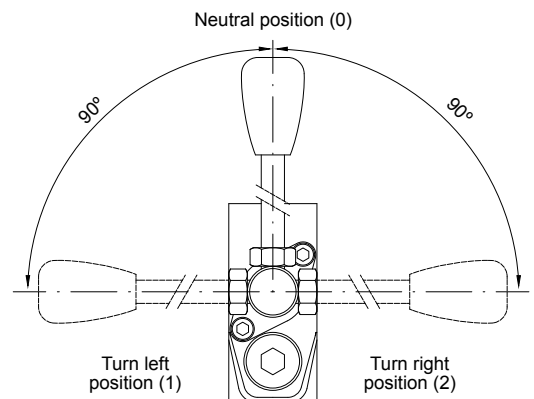
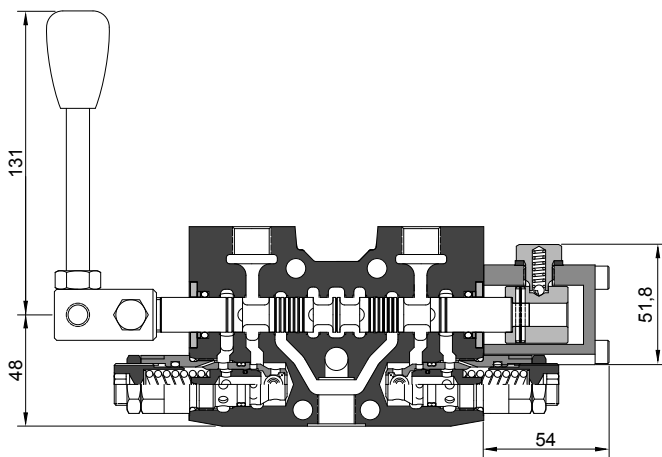
P.N. VA



Rotative operator

Operator (R)

Spool position
kit (35)



NOTE: Rotative pilot normally use a stainless steel spool.

Spool position type 35 and operator type R standard

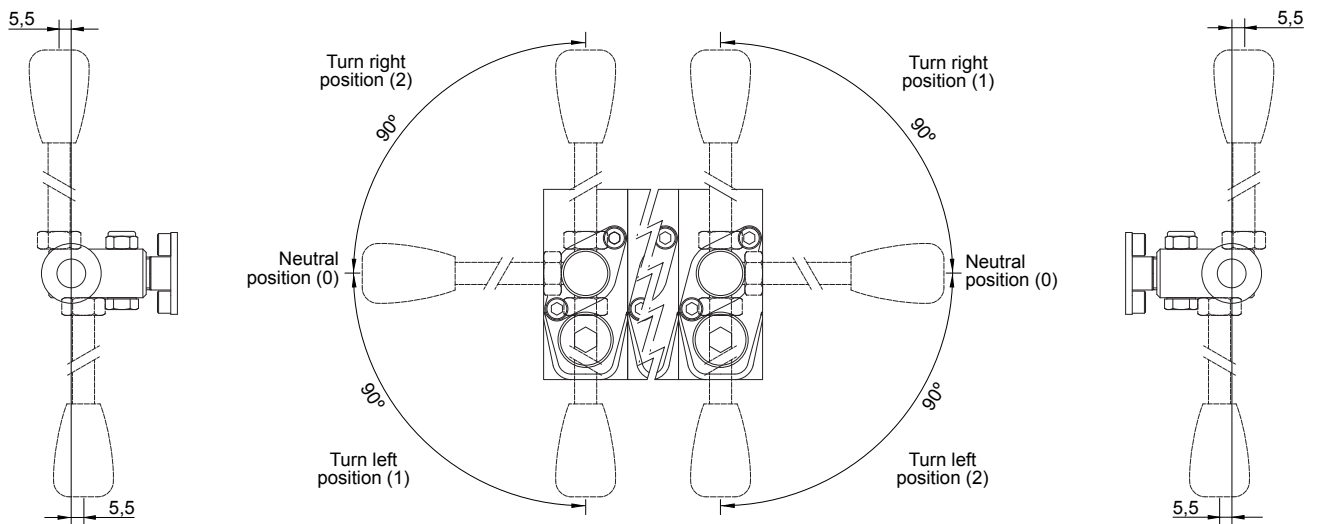
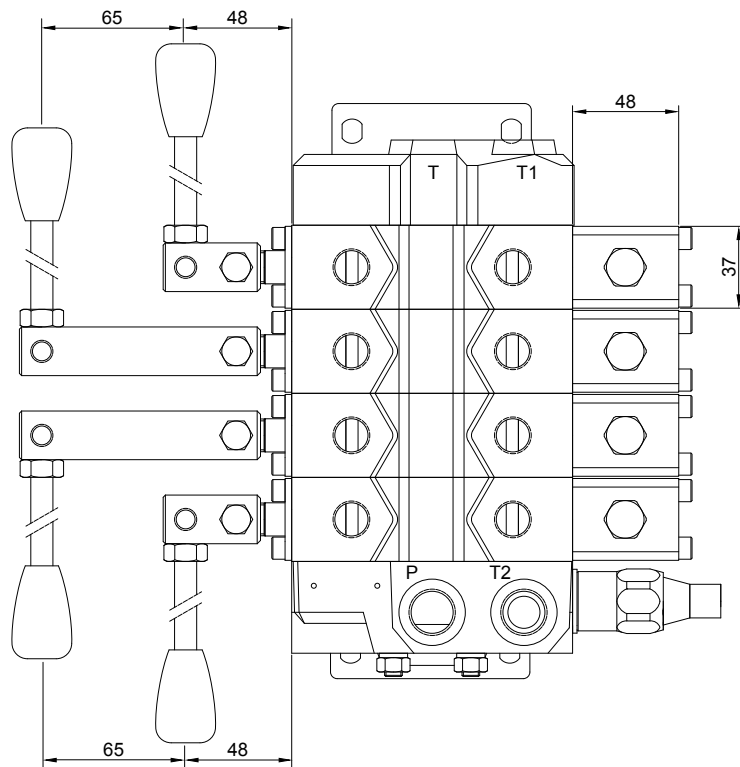
P.N. 8412283001

Operator	Spool position Kit	Function	Description
R	35		Rotary device with detent in neutral position.

Multiple rotative operator

Operator (R)

Spool position
kit (35)



Spool position type 35 and operator type R standard

P.N. 8412283001

Spool position type 35 and operator type R extended

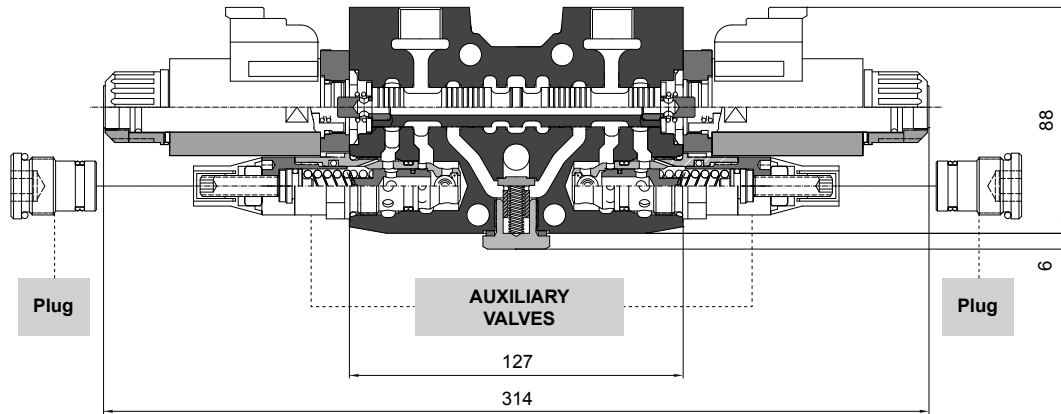
P.N. 8412283002

NOTE: Rotative pilot normally use a stainless steel spool.

Operator	Spool position Kit	Function	Description
R	35		Rotary device with detent in neutral position.

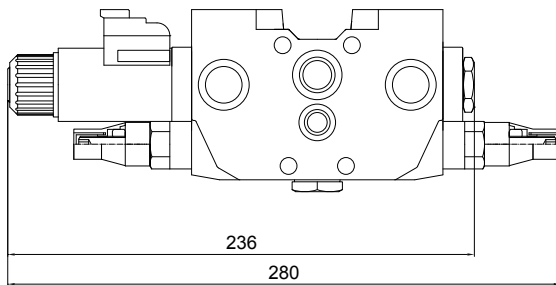
Direct solenoid operated section

Spool position kit 83



NOTE:
When ordering spool position kit 83 "A" main relief valve position must be used.

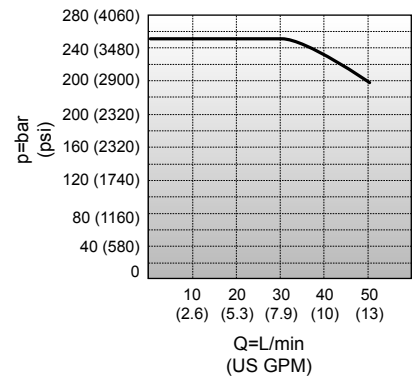
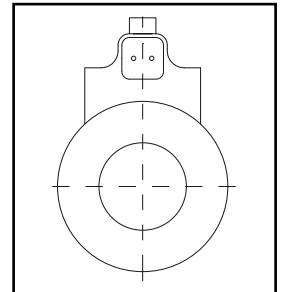
Spool position kit 84, according main relief valve in A (Standard) position



NOTE:
In spool position kit 84, solenoid side is considered operator side.

Kit converter to spool kit type 84.
P.N.: M7799/5/84/85

Connection



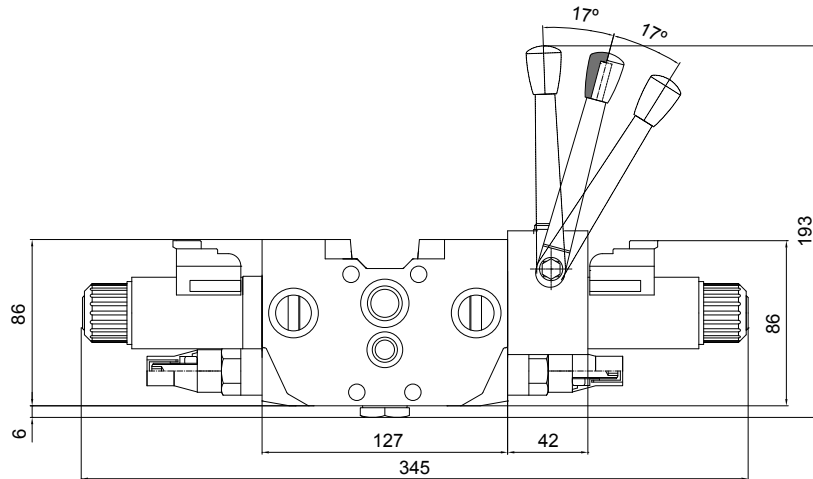
Operator	Hand lever	Coil connector (Female)	Required connector (Male)	IP-Protector
E	without	DEUTSCH DT04-2P	DEUTSCH DT06-2S	67

Main relief Valve position	Spool position Kit	Function	Description
A	83	2 0 1	Three positions; end positions by direct solenoid, neutral position by spring.
A-C	84	2 0	Two positions; neutral position and end position. Position 0 by spring and end position by solenoid in side A port.

Coil voltage	Coil wattage	Coil resistance	Duty	Ambient operating Temperature (Coil)	Coil insulation
12 V DC	42 W	3,25 Ohm	continuous (100%)	-54°C (-65°F) / +60°C (+140°F)	CLASS H
24 V DC	42 W	13,7 Ohm	continuous (100%)	-54°C (-65°F) / +60°C (+140°F)	CLASS H

Direct solenoid operated section with emergency operator

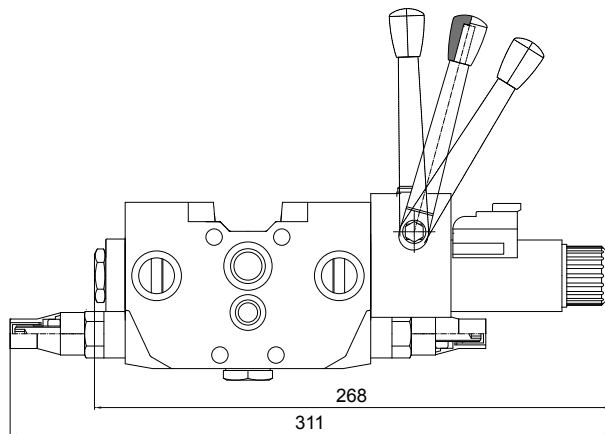
Spool position kit 83



NOTE:

When ordering spool position kit 83 with emergency operator "A" main relief position valve must be used.

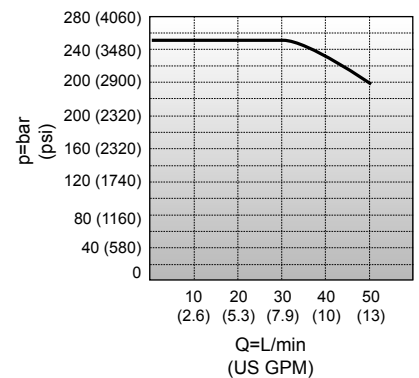
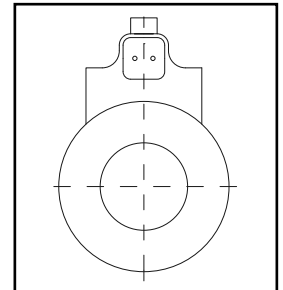
Spool position kit 84, according main relief valve in C position



NOTE:

In spool position kit 84, with emergency operator, solenoid side is considered operator side.

Connection



Operator	Hand lever	Coil connector (Female)	Required connector (Male)	IP-Protector
ME	with	DEUTSCH DT04-2P	DEUTSCH DT06-2S	67

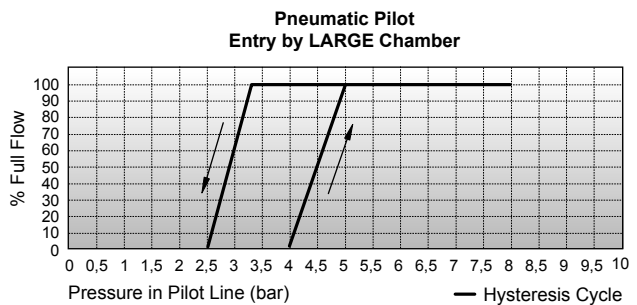
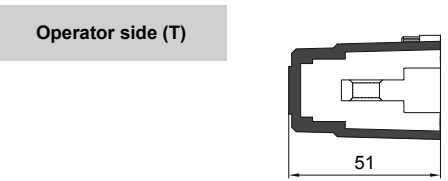
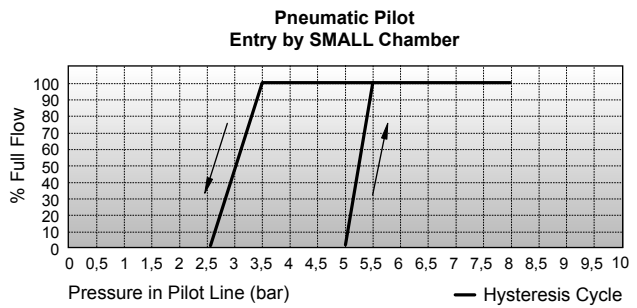
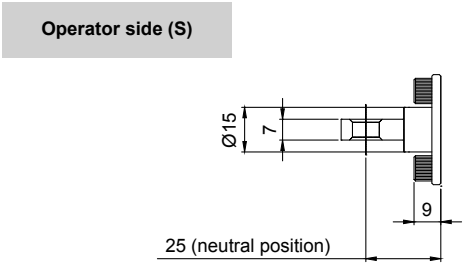
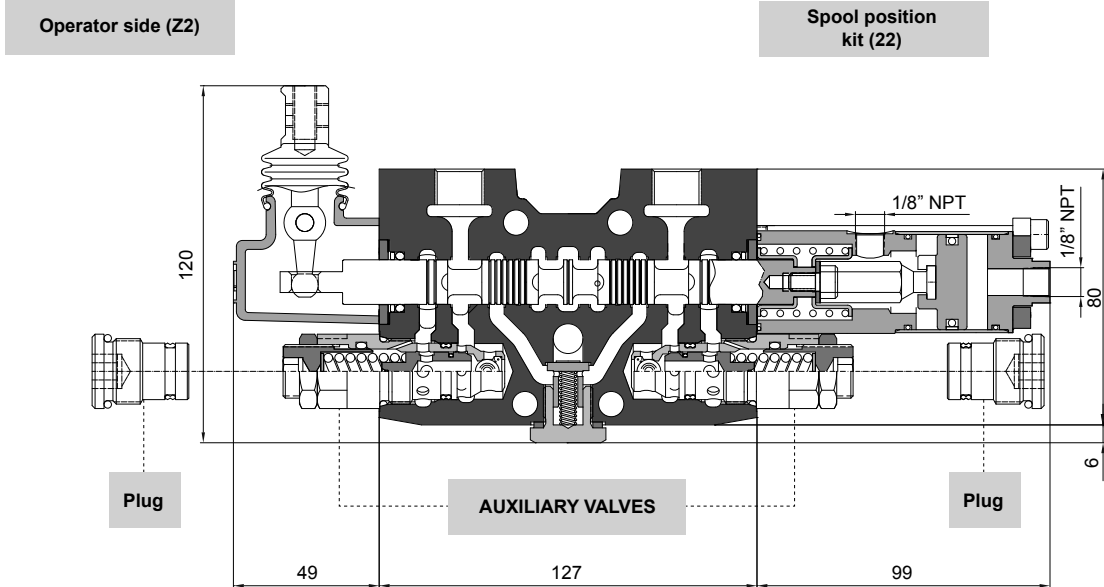
Main relief Valve position	Spool position Kit	Function	Description
A	83		Three positions; end positions by direct solenoid, neutral position by spring.
A-C	84		Two positions; neutral position and end position. Position 0 by spring and end position by solenoid in side A port.

Coil voltage	Coil wattage	Coil resistance	Duty	Ambient operating Temperature (Coil)	Coil insulation
12 V DC	42 W	3,25 Ohm	continuous (100%)	-54°C (-65°F) / +60°C (+140°F)	CLASS H
24 V DC	42 W	13,7 Ohm	continuous (100%)	-54°C (-65°F) / +60°C (+140°F)	CLASS H

Pneumatic pilot

NOTE:

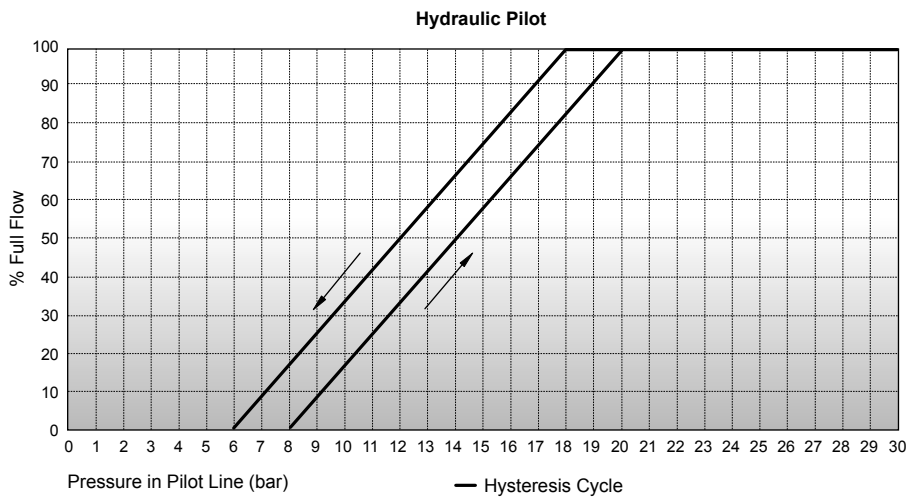
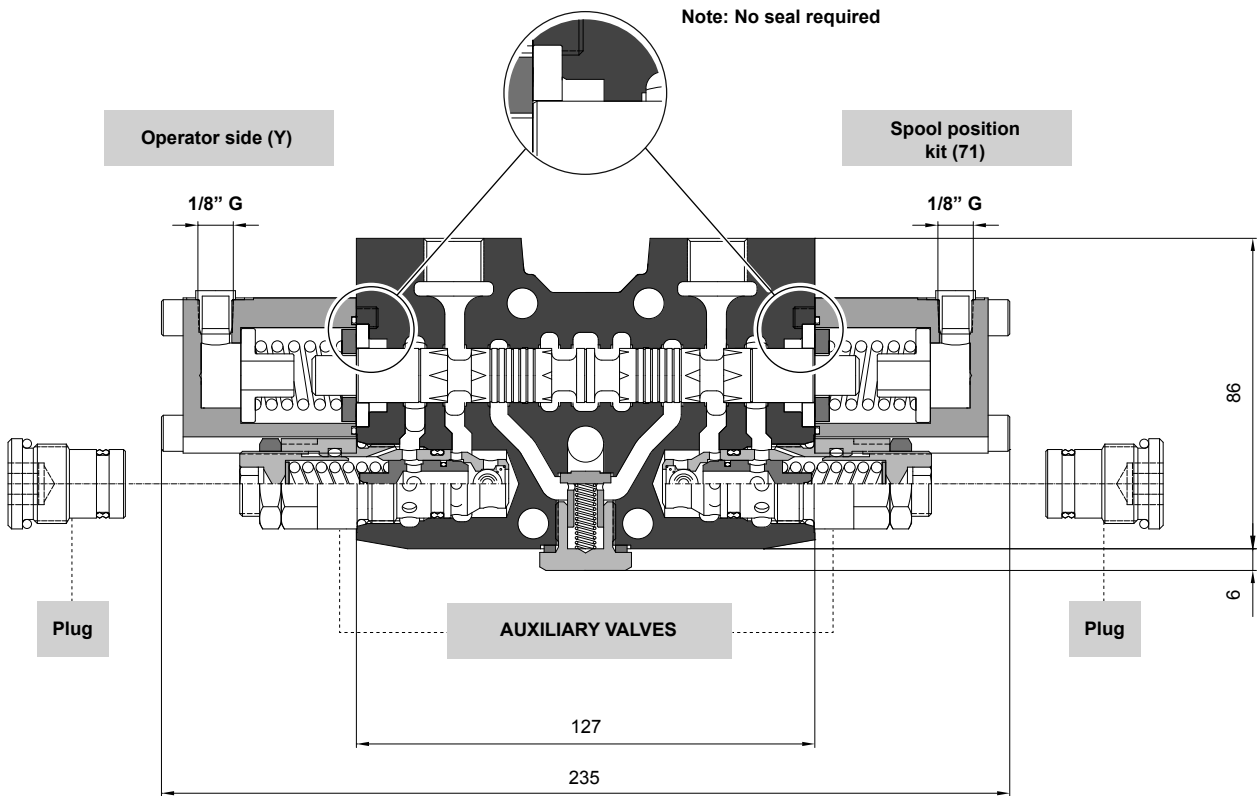
Pneumatic pilot normally use an operator type Z2 (standard), S or T. If you want use another type of operator for this pneumatic pilot, please contact.

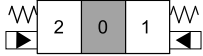


Operator	Spool position Kit	Function	Description
S	22		Three positions pneumatic piloted.
Z2			
T			

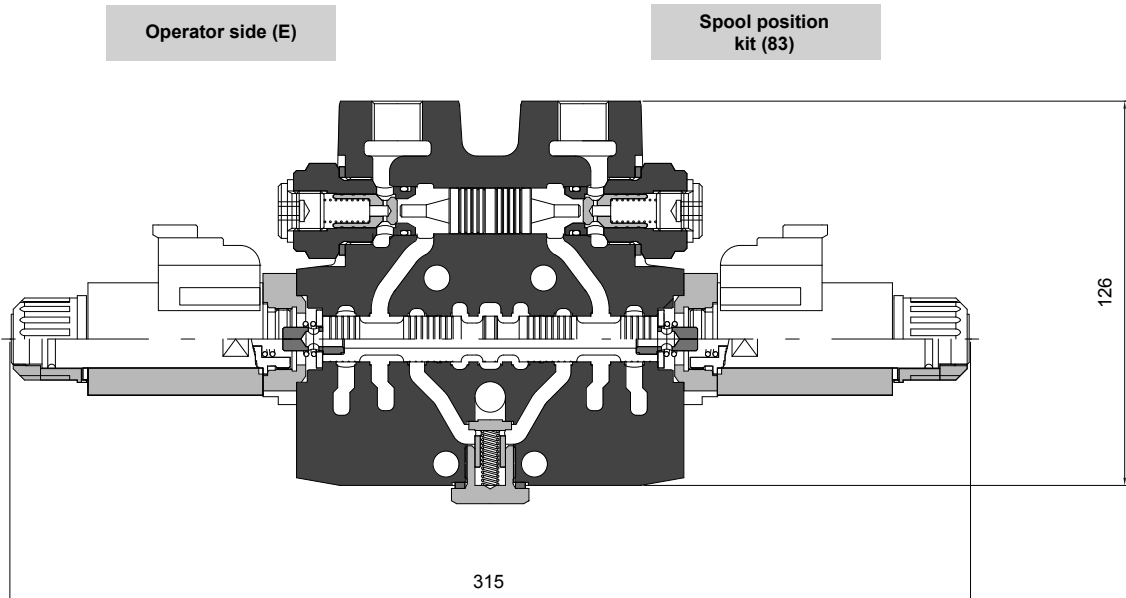
Hydraulic pilot

NOTE:
Hydraulic pilot only use spool position kit 71 and operator Y.

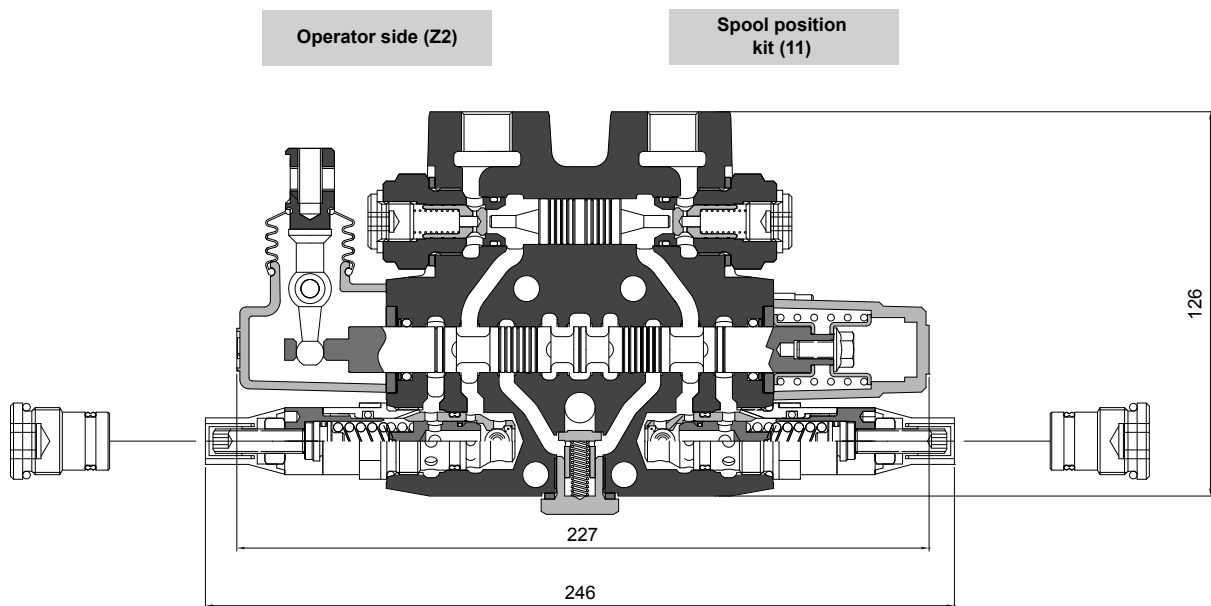


Operator	Spool position Kit	Function	Description
Y	71		Three positions pneumatic piloted.

Pilot operated check valve



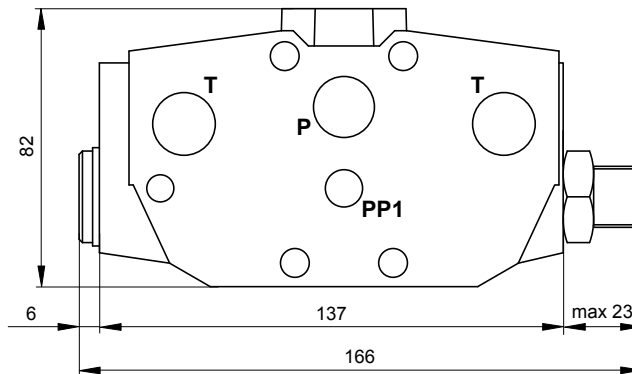
CODING SYSTEM EXAMPLE: 422/A83E-I24/0-0/0-0



CODING SYSTEM EXAMPLE: 422/A11Z2-I00/VA-13/VA-13

3 way flow control for directional control valves

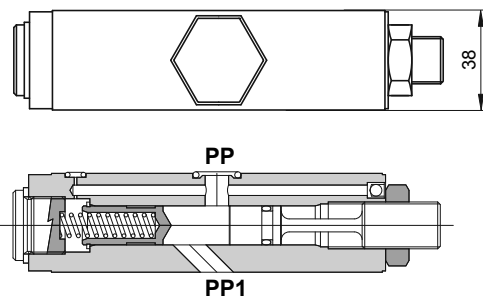
This flow control section can be fitted at any position in valve assembly except final section, according to which sections are required with a reduced flow rate.
All sections downstream of this valve can only operated at this reduced flow rate.



NOTE:
Not possible reduce flow on final section.

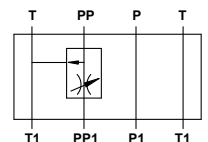
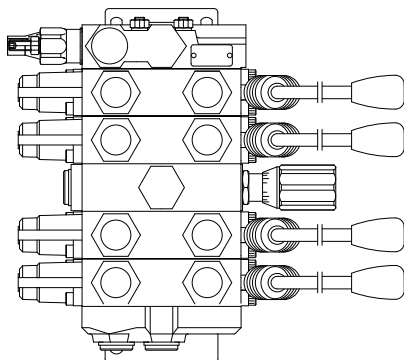
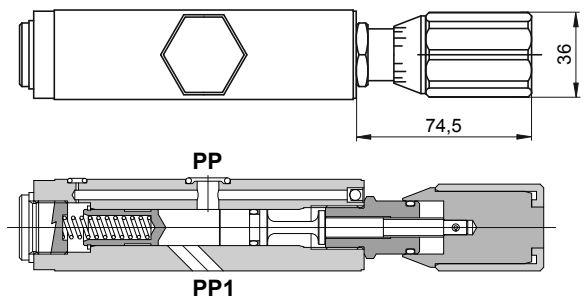
3 way flow control ajustable

P.N. M7792002



3 way flow control with knob

P.N. M7792003

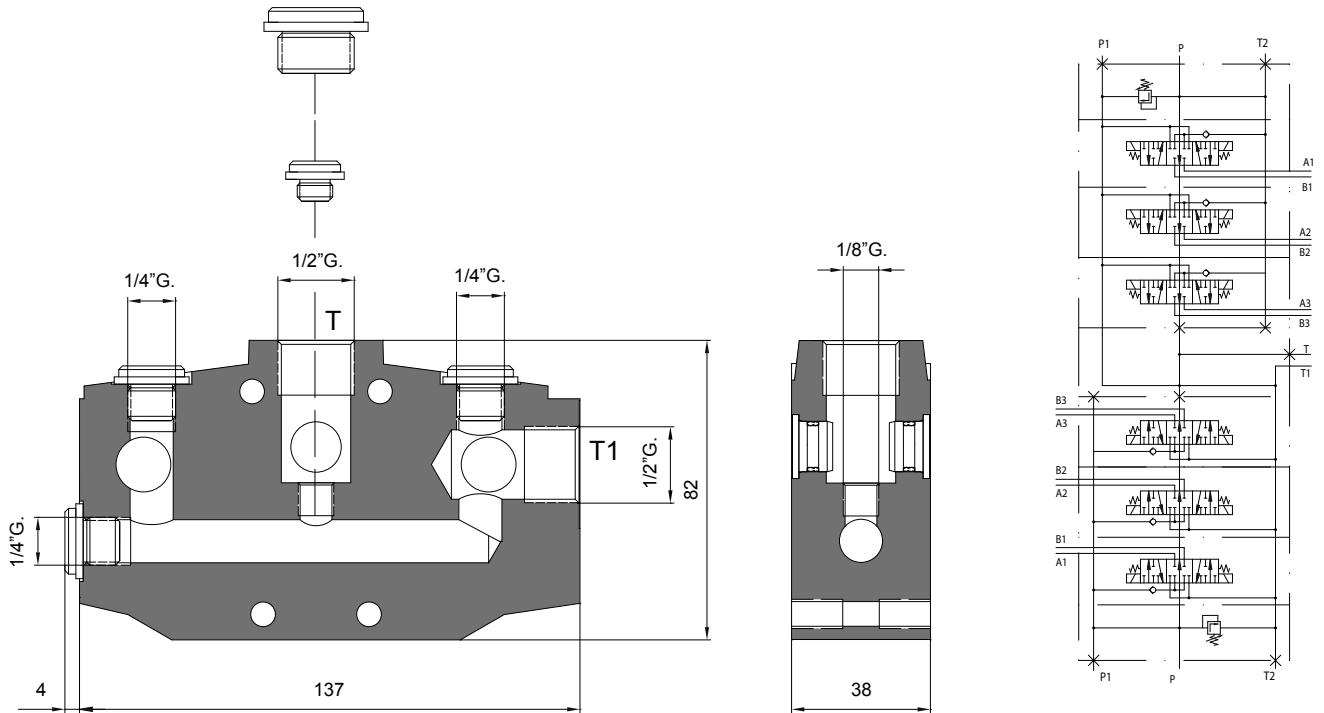


Technical data

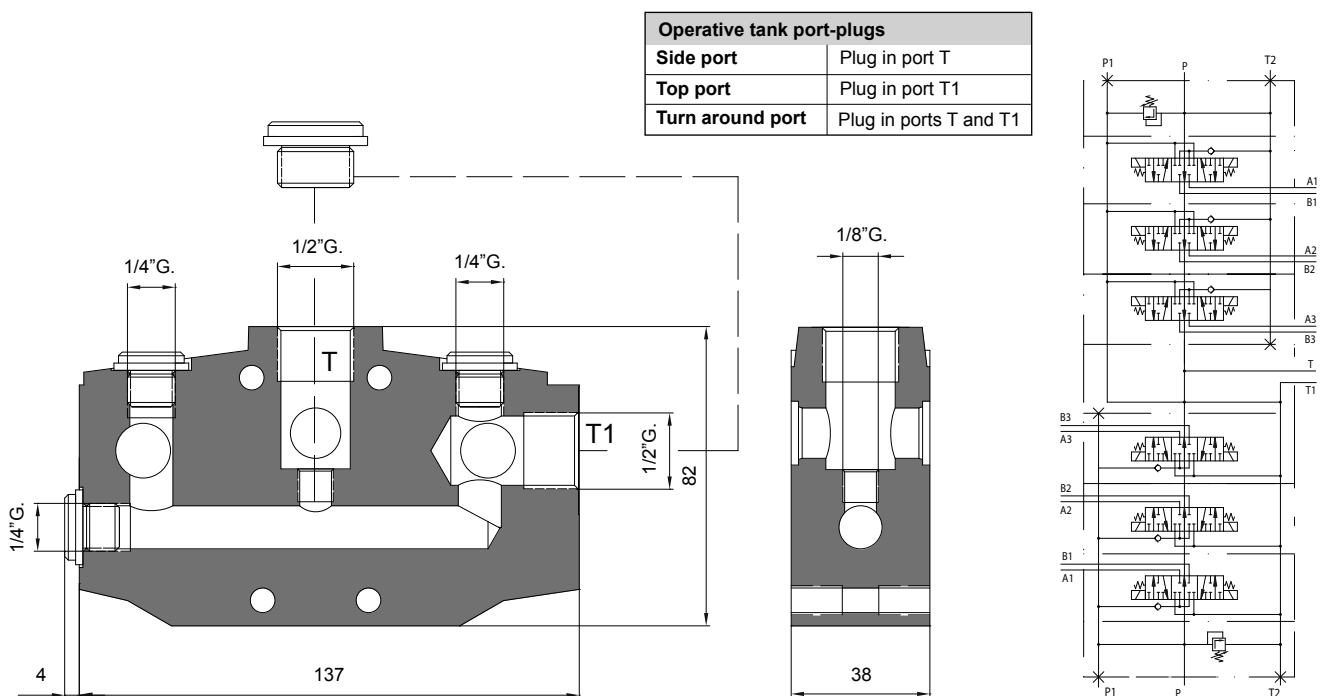
Nominal flow rate	50 l/min / 13 (US GPM)
Min. flow rate	5 l/min / 1 (US GPM)
Max. work pressure	350 bar / 5075 psi

Mid-outlet scheme

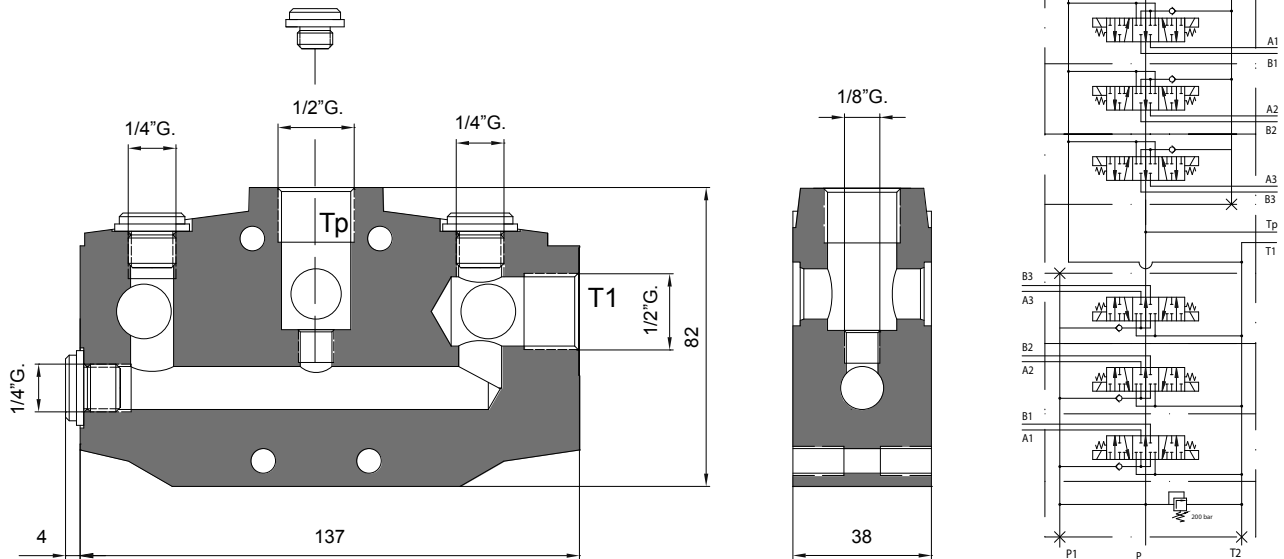
Closed center (return C)



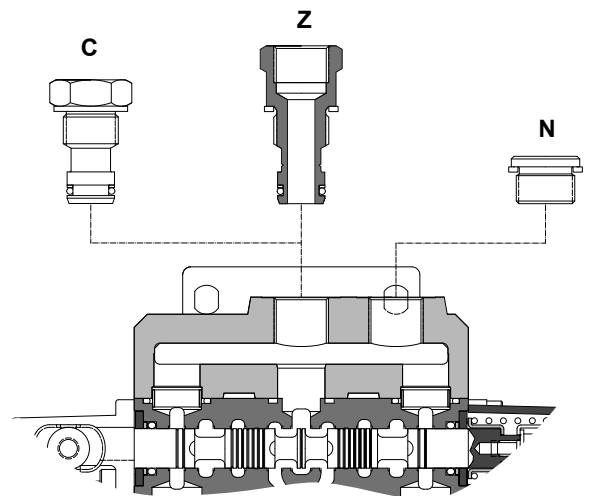
Free flow (return N)



Power beyond (return Z)



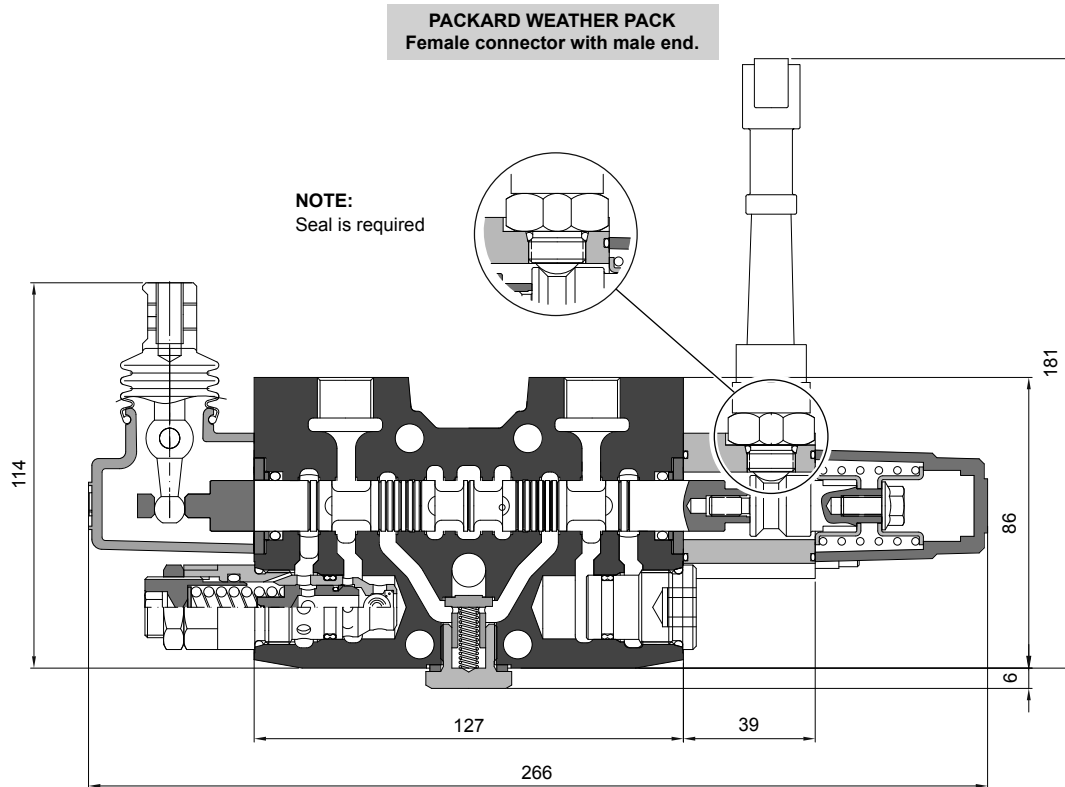
Return configuration



Return type		Ports	Part number
		T	
N	Open center	1/2" G.	Standard
Z	Power beyond	1/2" G.	N8412/177
C	Closed center	Plug	N8412/178

Position microswitch *

PRECISION BALL SWITCHES TECHNICAL DATA				
Current range	Voltage range	Connector	Temperature range	Type
0,01-5,0 Amp	5-24 V	Packard weather pack	-40 °C to 120 °C	Normally open
				Normally close



* Subject to minimum order quantities

POSITION MICROSWITCH NORMALLY OPEN		
CODE FOR CONTROL VALVE SECTIONS PART NUMBER	PART NUMBER KIT	FUNCTION
NO1	M8412/217/1	
NO3	M8412/217/3	
NO2	M8412/217/2	

POSITION MICROSWITCH NORMALLY CLOSE		
CODE FOR CONTROL VALVE SECTIONS PART NUMBER	PART NUMBER KIT	FUNCTION
NC1	M8412/218/1	
NC3	M8412/218/3	
NC2	M8412/218/2	

CODING SYSTEM EXAMPLE: 412/A11Z2-D00/VA-13/T-0-**NO3**

CODING SYSTEM EXAMPLE: 412/A11Z2-D00/VA-13/T-0-**NC3**

Specification sheet for special control valve with code

		Return type	End cover		Code (additional data, paint, etc.):
		<input type="checkbox"/> C Closed center <input type="checkbox"/> N Free flow <input type="checkbox"/> Z H.P.C.O.	Operative port: Top port <input type="checkbox"/> Front port <input type="checkbox"/>		
Elements	9	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	8	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	7	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	6	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	5	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	4	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	3	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	2	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
	1	Spool position:	Auxiliary valve:	Section: Without valve <input type="checkbox"/> Section: With valve <input type="checkbox"/> Corredera:	Auxiliary valve: <input type="checkbox"/> Hand lever: <input type="checkbox"/>
Type:		<input type="checkbox"/> 406 <input type="checkbox"/> 1406	Unloading valve:	Inlet cover: Operative port: Top port <input type="checkbox"/> Front port <input type="checkbox"/>	Main relief valve:

ROQUET part number											
Main relief valve											
Type	Return	S. p. device	Hand lever	Position	Setting	Spools	Voltage	Unloading valve	Code		

Maximum number of characters as 25 by part number.

Note: Part number must be checked by PEDRO ROQUET S.A., It is reserved the right to change it. The code is provided only by PEDRO ROQUET S.A.

A large rectangular area filled with a grid of small, evenly spaced dotted lines, intended for writing notes.

Roquet

making **moves**

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