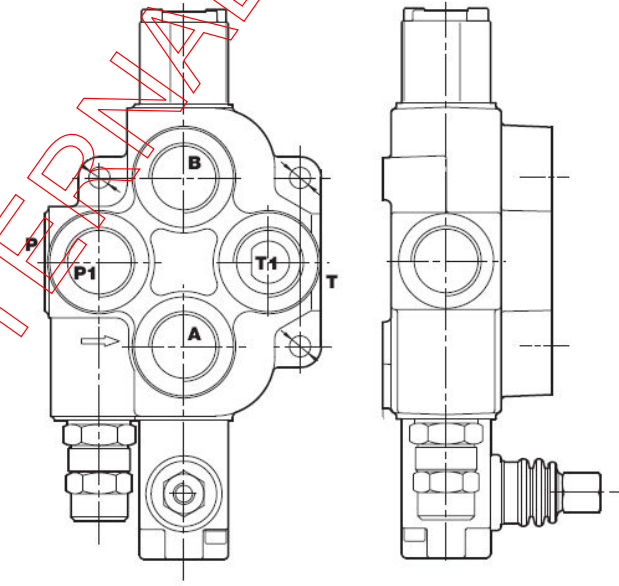


PRODUCT DATA SHEET  
REV.4

Product: (DO6DM1---)

**GENERAL INDEX**

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Hydraulic circuits	page 5
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*This document has been drawn up with the greatest attention to precision and accuracy of all data herein contained.*

*Nevertheless, Bondioli & Pavesi denies liability for any possible mistake or omission.*

**General features**

Number of sections	1	
Spool diameter	22 mm	0.87 in
Spool O-Ring hardness	70 sh	
Port auxiliary valves	Not available	
Carry Over prearrangement (power beyond)	Standard equipment	

**Working features**

Following characteristics are influenced by testing conditions. Values are obtained with oil at viscosity of 21 cSt, temperature of 50°C and pressure of 100 bar , double acting spool (circuit 1) and are valid only for standard threads.

Nominal flow rate	140 l/min	37.0 US gpm
Maximum flow rate	150 l/min	39.6 US gpm
Maximum pressure	180 bar	2600 psi
Maximum tank pressure	50 bar	730 psi
Max. internal leakage (A or B => P and T)	Max 60 cm <sup>3</sup> /min	Max 3.7 in <sup>3</sup> /min

**Fluid working range**

Fluid	Mineral based oil
Working temperature (*)	-20°C +80°C with NBR seals
Working oil viscosity	From 10 cSt to 100 cSt

(\*) For different working temperature, fluid or viscosity, please contact our sales department.

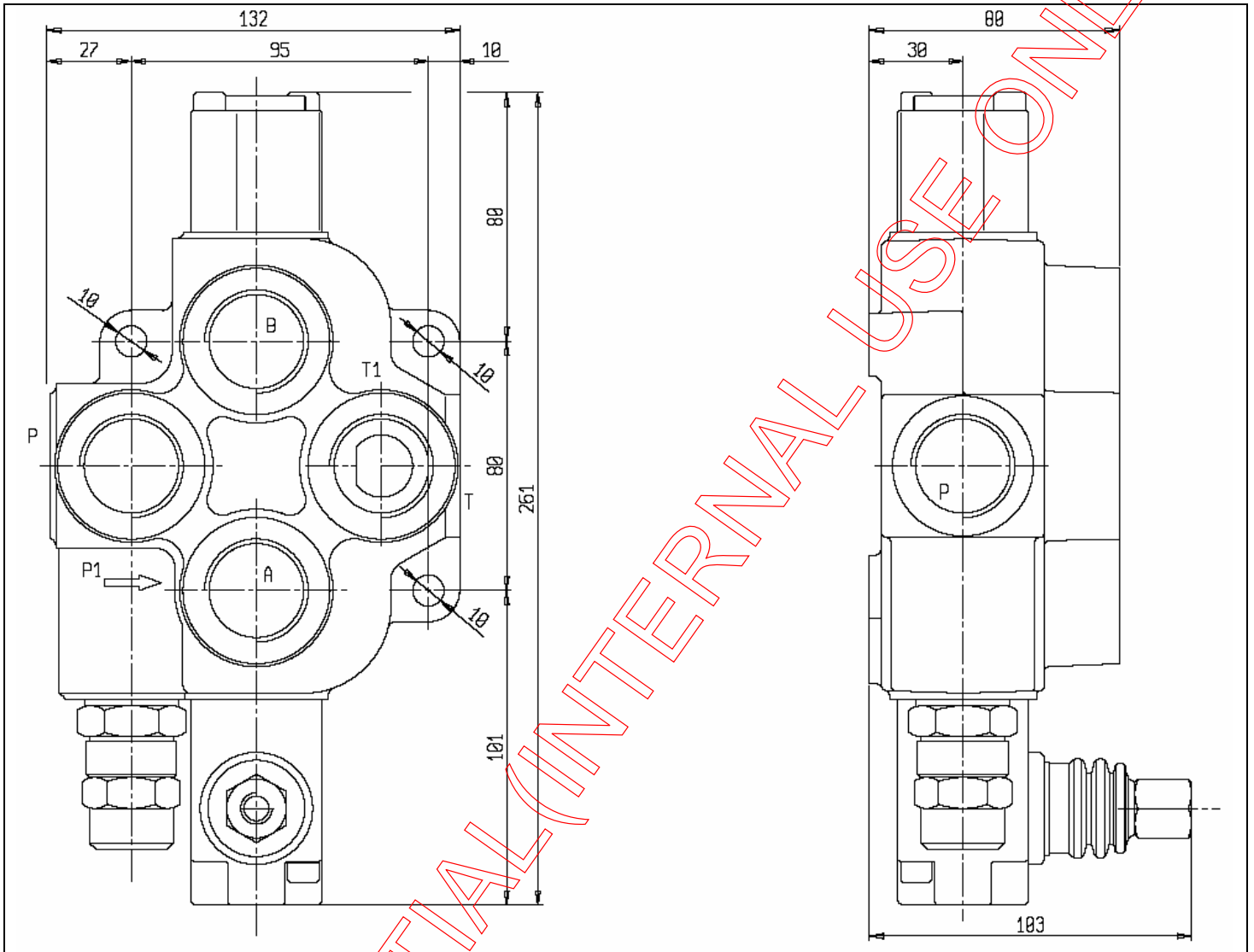
NOTE: do not wash valve with direct water jet.

**Units of measure – conversion factors**

	METRIC	BSP
Length	1 mm = 0,0394 in	1 in = 25,4 mm
Mass	1 kg = 2,205 lb	1 lb = 0,454 kg
Force	1 Nm = 0,102 kgf	1 kgf = 9,807 Nm
Volume	1 l = 0,2200 gal UK	1 gal UK = 4,546 l
	1 l = 0,2642 gal US	1 gal US = 3,785 l
Pressure	1 bar = 100000 Pa	1 Pa = 0,00001 bar
	1 bar = 14,5 psi	1 psi = 0,0689 bar



**Overall dimensions**



**Weights**

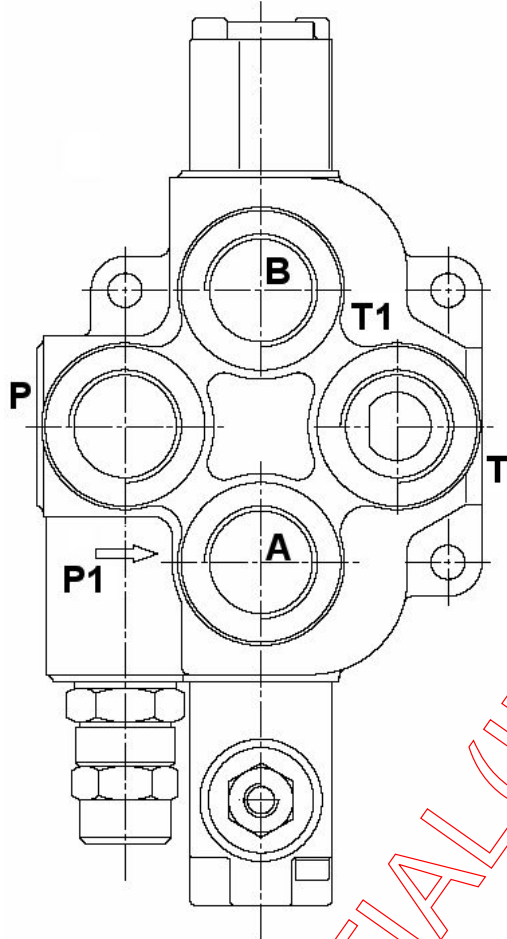
MOD.	L. mm (inch)	Weight Kg (lb)
DL/1	95 (3.7)	6.5 (14.3)



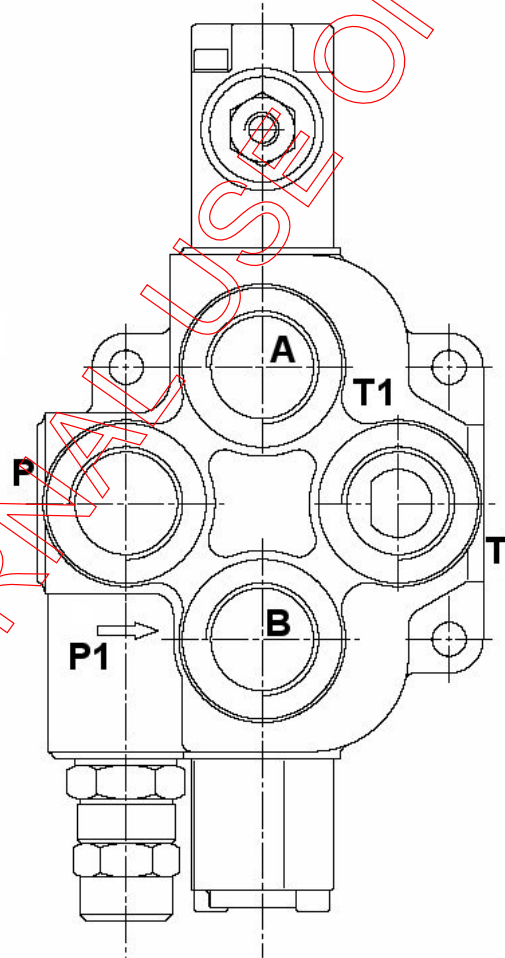
**Inlet side – definition of port A - B**

Port A is defined by the lever side. When valve is right inlet the position of the letter associated to the port is inverted.

Left inlet



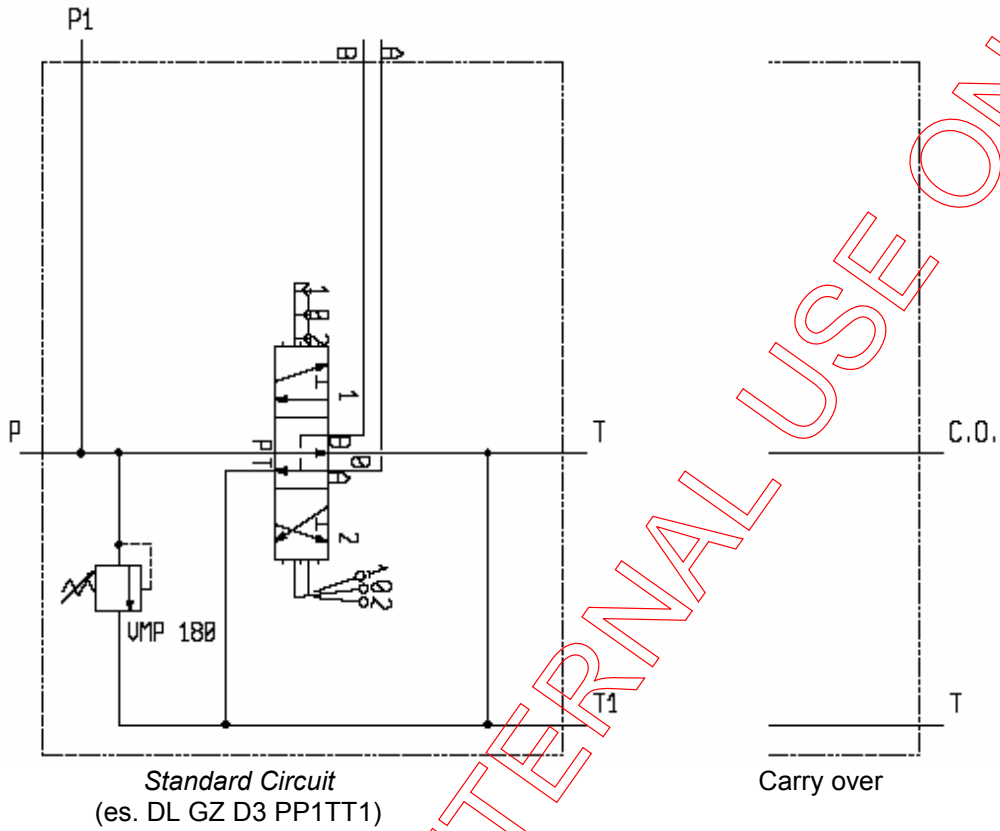
Right inlet



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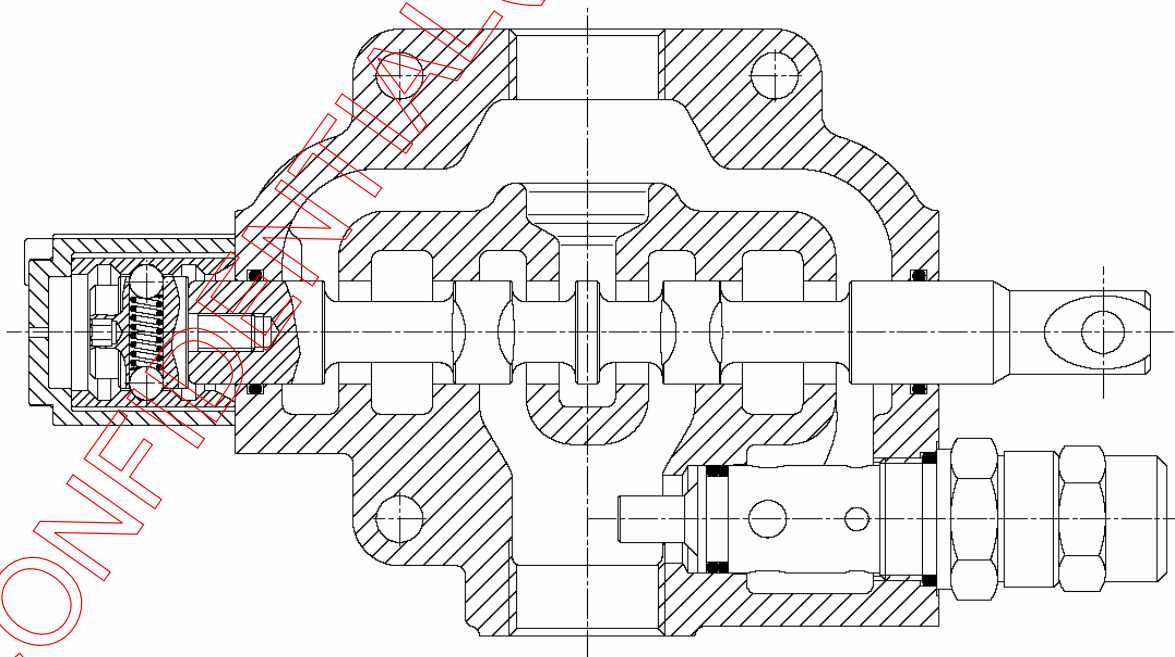


Hydraulic circuits



Note: the check valve on P line is NOT available.

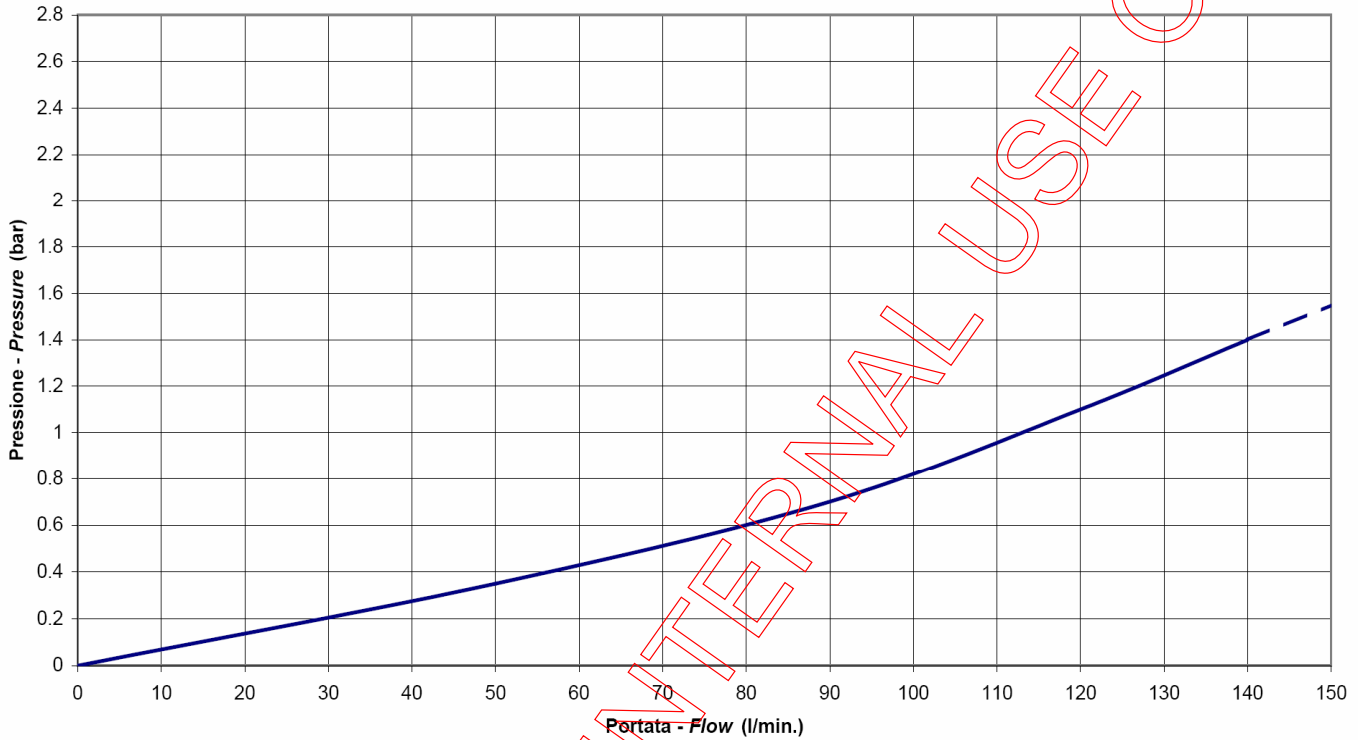
Section



**Pressure drop curves**

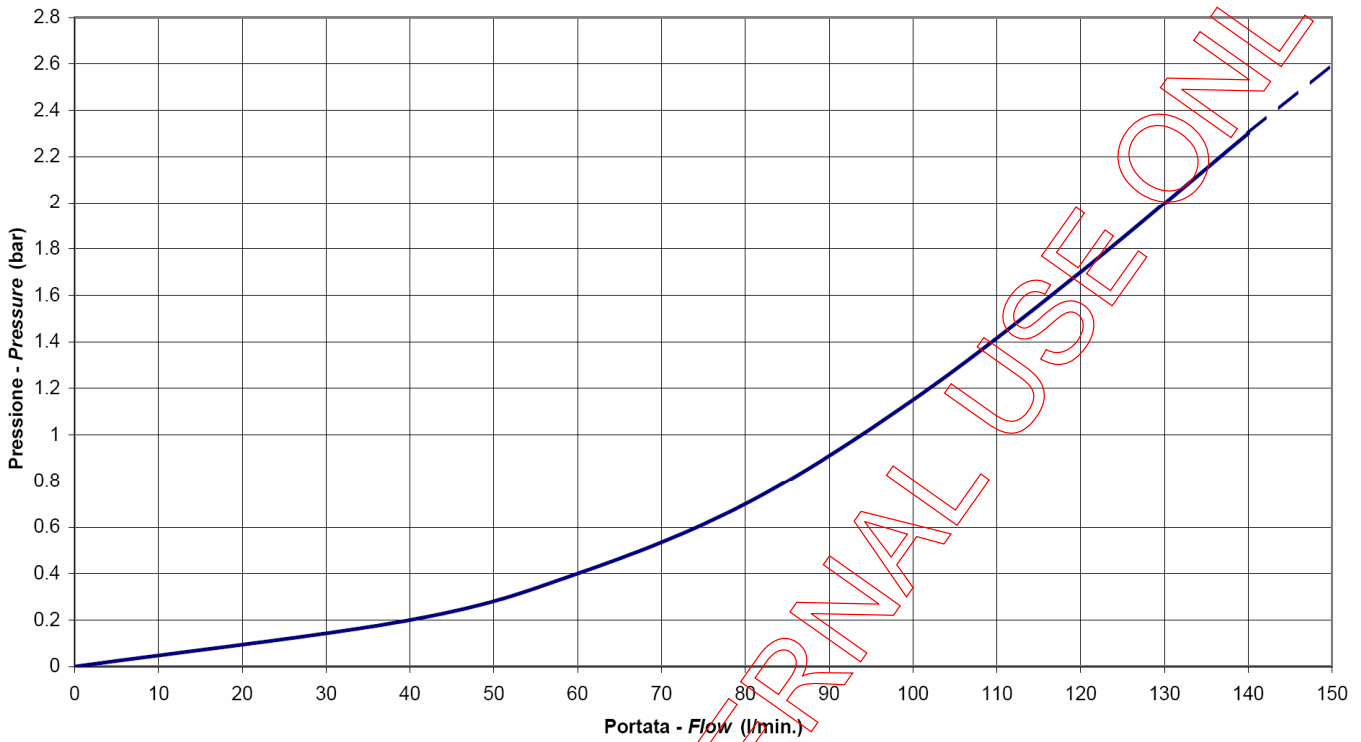
All curves are obtained with oil at 21 cSt of viscosity (50°C) and with double acting spool (See test norm DSP01000B).

P-T DL Spola - Spool 2921HH03000 - 21 cSt

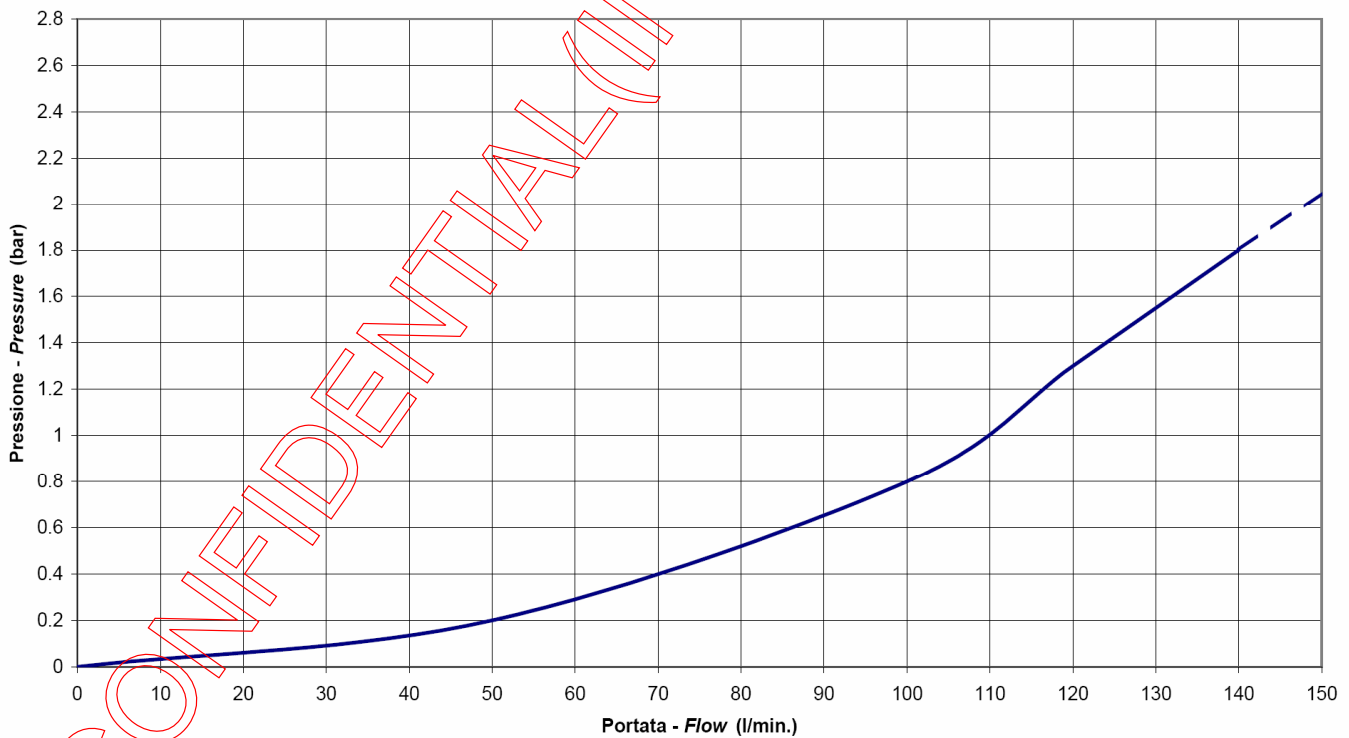




P-A DL Spola - Spool 2921HH03000 - 21 cSt



A-T DL Spola - Spool 2921HH03000 - 21 cSt



**Ordering instructions**

I	II	III	IV	V	VI	VII	VIII	IX	X
---	----	-----	----	---	----	-----	------	----	---

I.	<b>Model / Number of sections</b>	_____	<b>page 9</b>
II.	<b>Threads</b>	_____	<b>page 10</b>
III.	<b>Main relief valve</b>	_____	<b>page 11</b>
IV.	<b>Spool control</b>	_____	<b>page 13</b>
V.	<b>Spools (circuits)</b>	_____	<b>page 16</b>
VI.	<b>Actuators on lever side</b>	_____	<b>page 21</b>
VII.	<b>Actuators on spool control side</b>	_____	<b>page 23</b>
VIII.	<b>Following section</b>	_____	<b>page 24</b>
IX.	<b>Options on T</b>	_____	<b>page 25</b>
X.	<b>Type of inlet/outlet port</b>	_____	<b>page 26</b>

**IMPORTANT NOTE:** grey colour codes are special configurations





**I**

**Number of sections**

**Ordering instructions**

<b>DL1</b>										
I	II	III	IV	V	VI	VII	VIII	IX	X	

<b>Ordering code</b>	<b>Description</b>
DL1	1 section

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**II**
**Threads**
**Ordering instructions**

<b>DL1</b>	<b>G</b>								
I	II	III	IV	V	VI	VII	VIII	IX	X

**Threads admitted**

Ports thread	Identification for code creation	P – P1	A – B	T
BSP ( "G" )	<b>G</b>	1 G	1 G	1 G
BSP ( "F" )	<b>F</b>	3/4 G	3/4 G	1 G
SAE ( "V" )	<b>V</b>	1" 1/16-12 SAE	1" 1/16-12 SAE	1" 1/16-12 SAE
SAE ( "S" )	<b>S</b>	1" 5/16-12 SAE	1" 5/16-12 SAE	1" 5/16-12 SAE

**Recommended torques**
**Fittings**

<b>BSP thread</b>	<b>1" G</b>	<b>3/4" G</b>
Torque [Nm] ± 5%	200	140
<b>SAE thread</b>	<b>1" 1/16-12 UNF</b>	<b>1" 5/16-12 UNF</b>
Torque [Nm] ± 5%	125	270

Note: With 35SMnPb10 (PR80) fittings the values of torque increase of about 50%.

**Lever and spool controls screws**

<b>Metric thread</b>	<b>M6</b>
Torque [Nm] ± 1	6

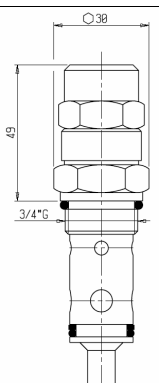
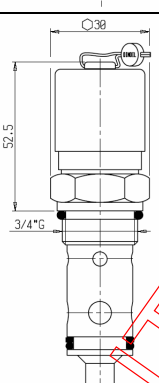
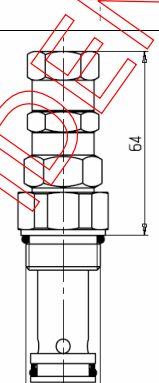
III

Main relief valve

Ordering instructions

DL1	G	Z(180)							
I	II	III	IV	V	VI	VII	VIII	IX	X

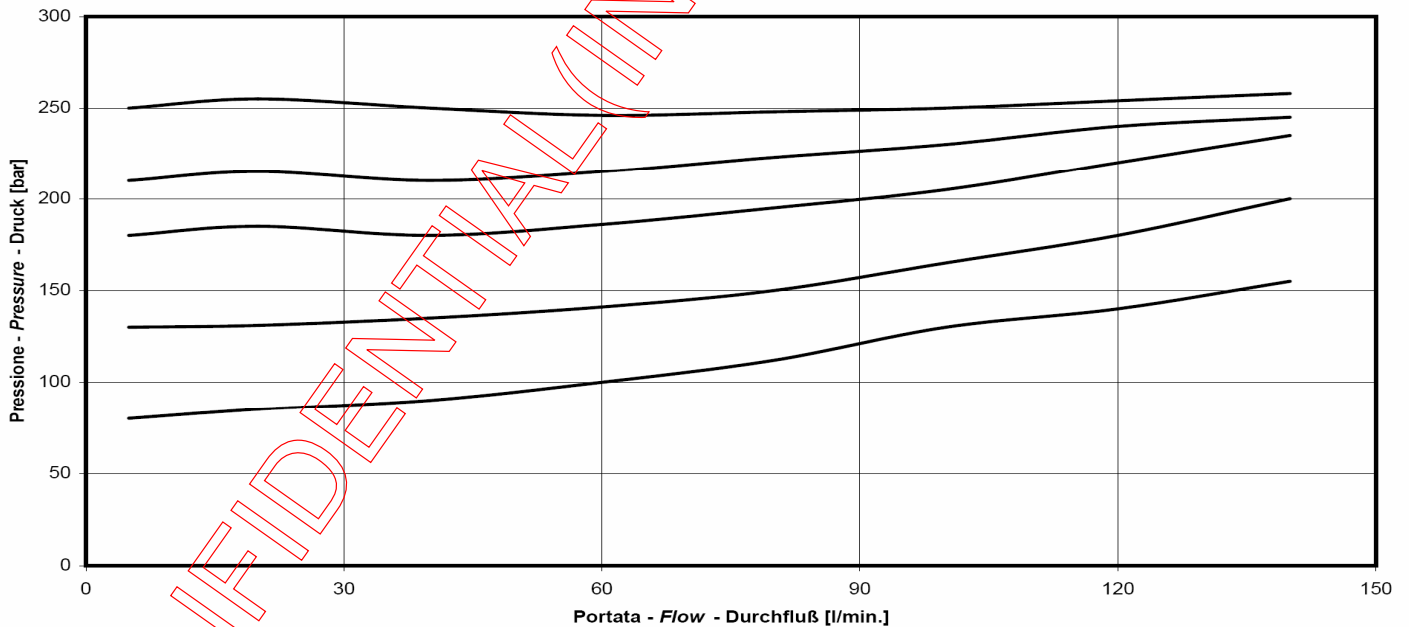
Main relief valve: Standard setting is referred to 5 l/min ±10% of flow rate, setting pressures are multiples of 10 bar

Type	Image	Ordering code		Operating pressure
		Valve type code	Pressure code	
DOWPD053-4--- <i>Main relief valve - grain</i>		05	X (80)	30–80 bar (standard setting 80 bar)
			Y (130)	85–130 bar (standard setting 130 bar)
			Z (180)	135–180 bar (standard setting 180 bar)
			V (210)	190-210 bar (standard setting 210 bar)
DOWPD203-4--- <i>Main relief valve - leaded cap</i>		20	X (80)	30–80 bar (standard setting 80 bar)
			Y (130)	85–130 bar (standard setting 130 bar)
			Z (180)	135–180 bar (standard setting 180 bar)
			V (210)	190-210 bar (standard setting 210 bar)
DOWPP003-4--- <i>Main relief valve - Piloted</i>		00	X (80)	30–80 bar (standard setting 80 bar)
			Y (130)	85–130 bar (standard setting 130 bar)
			Z (180)	135–180 bar (standard setting 180 bar)
			V (210)	190-210 bar (standard setting 210 bar)



<p>DOWPP043-4---</p> <p>Main relief valve - Piloted leaded</p>		<p>04</p>	X (80)	30–80 bar (standard setting 80 bar)
			Y (130)	85–130 bar (standard setting 130 bar)
			Z (180)	135–180 bar (standard setting 180 bar)
			V (210)	190–210 bar (standard setting 210 bar)
<p>DO5KPAC1---01</p> <p>Main relief valve - Direct high performances</p>		<p>01</p>	X (80)	30–80 bar (standard setting 80 bar)
			Y (130)	85–130 bar (standard setting 130 bar)
			Z (180)	135–180 bar (standard setting 180 bar)
			V (210)	190–210 bar (standard setting 210 bar)

Caratteristica della valvola - Valve characteristic bend (21 cSt)



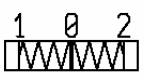
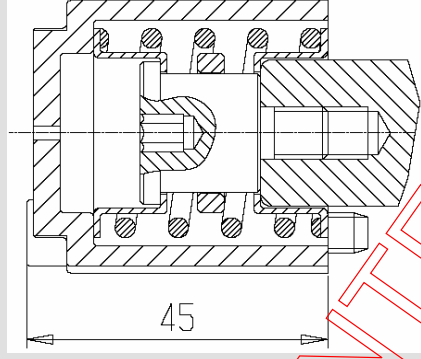
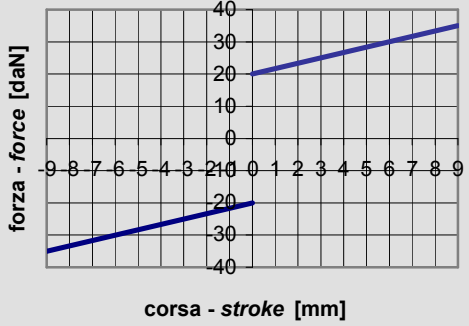
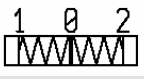
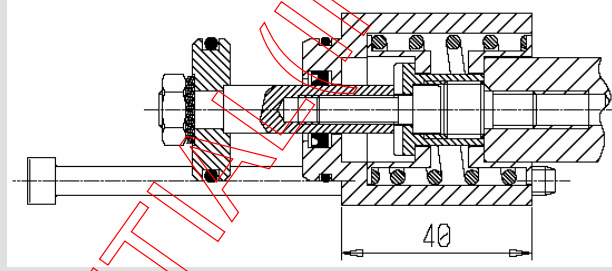
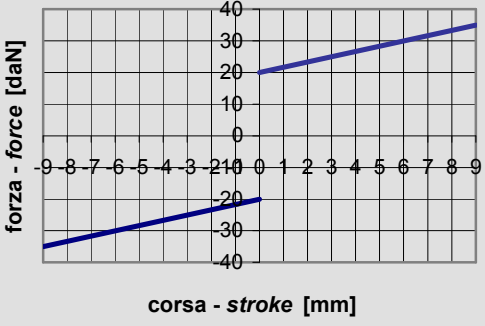
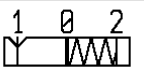
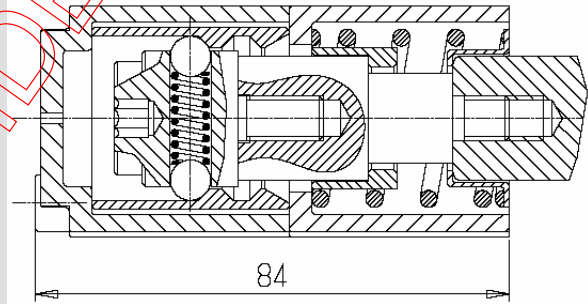
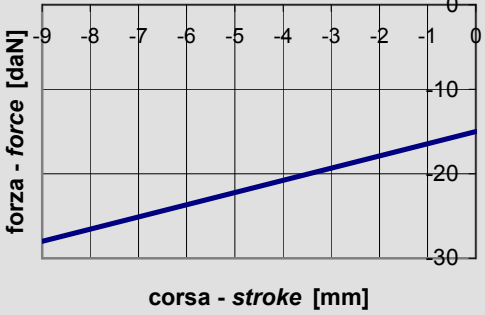
**IV**

**Spool control**

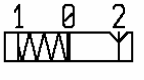
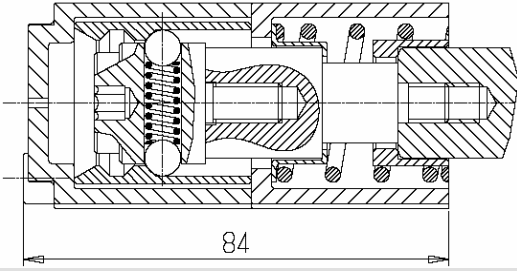
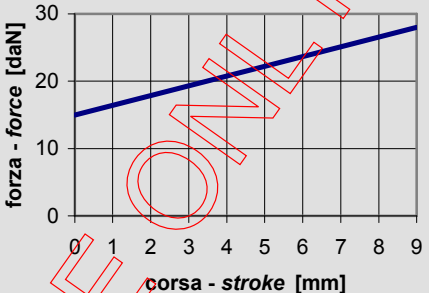
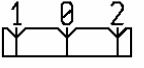
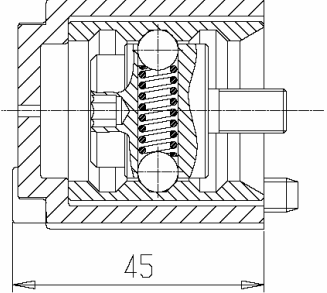
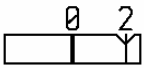
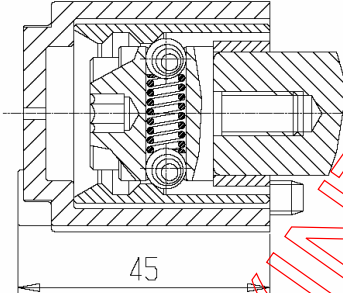
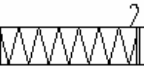
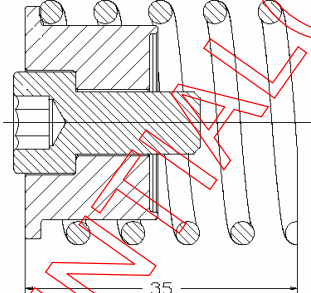
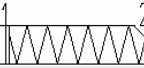
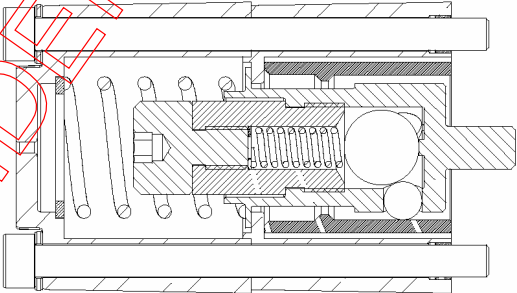
**Ordering instructions**

<b>DL1</b>	<b>G</b>	<b>Z(180)</b>	<b>A</b>						
I	II	III	IV	V	VI	VII	VIII	IX	X

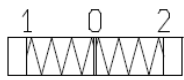
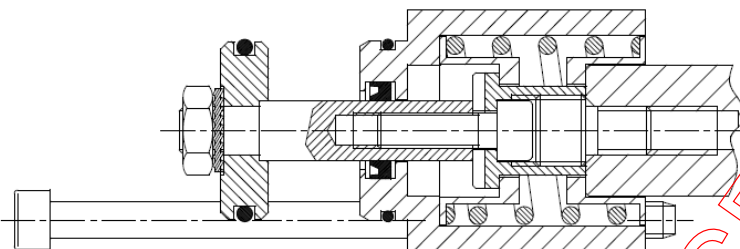
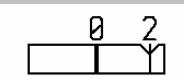
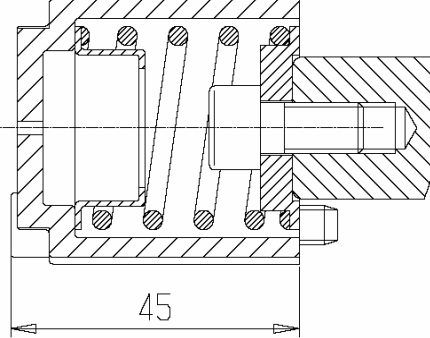
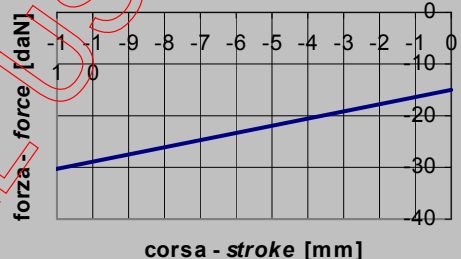
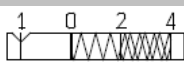
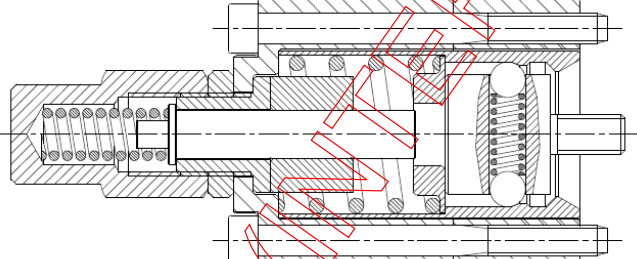
Actuator forces are measured on spool axis in working conditions, with no oil flow. Forces are inclusive of friction and have ± 10% tolerance (Test norms ref. DVCIPS09).

Scheme	code	Section drawing
DO580900A01 Standard A-type spool control. 	<b>A</b>	 
DO580900A03 For electro hydraulic control 	<b>A</b>	 
DO580900B01 	<b>B</b>	 <p>Hooking force 15 daN Unhooking force 14 daN</p> 



<p>DO580900C01</p> 	<p><b>C</b></p>	 <p>84</p> <p>Hooking force 15 daN Unhooking force 14 daN</p>	 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
<p>DO580900D01</p> 	<p><b>D</b></p>	 <p>45</p> <p>Hooking force = 12 daN Unhooking force = 11 daN</p>	
<p>DO580900H01</p> 	<p><b>H</b></p>	 <p>45</p> <p>Hooking force = 26 daN Unhooking force = 26 daN</p>	
<p>DO580900R01</p> 	<p><b>R</b></p>	 <p>35</p>	
<p>DO58090SQ02</p> 	<p><b>SQ</b></p>		

Special spool controls

<p>DO580800A31</p> <p>For electro hydraulic actuator</p> 	<p><b>A</b></p>		
<p>DO580900S01</p> 	<p><b>S</b></p>		 <p>Hooking force = 26 daN Unhooking force = 26 daN</p>
<p>DO58060TB01</p> <p>Stroke 6_0_6_6</p> 	<p><b>TB</b></p>		

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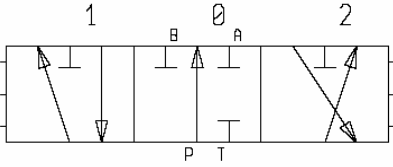
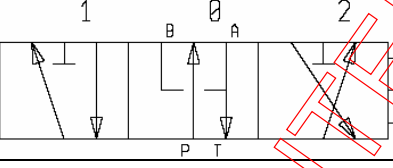
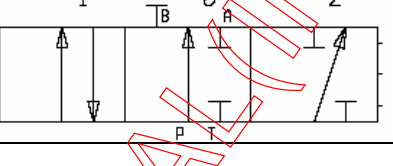
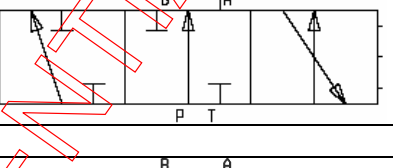
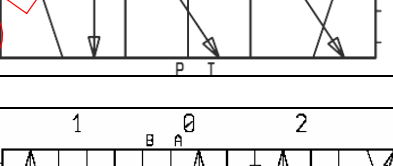
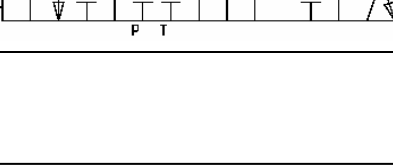
**V**

**Circuit**

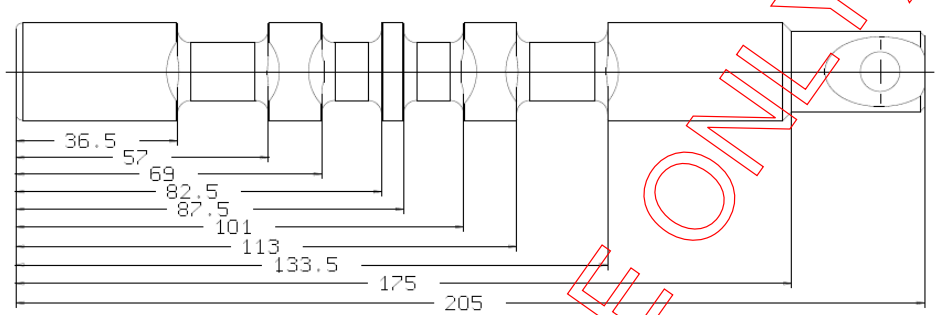
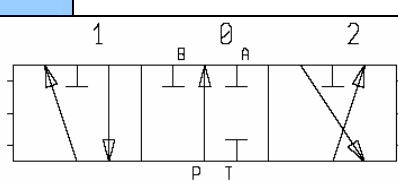
**Ordering instructions**

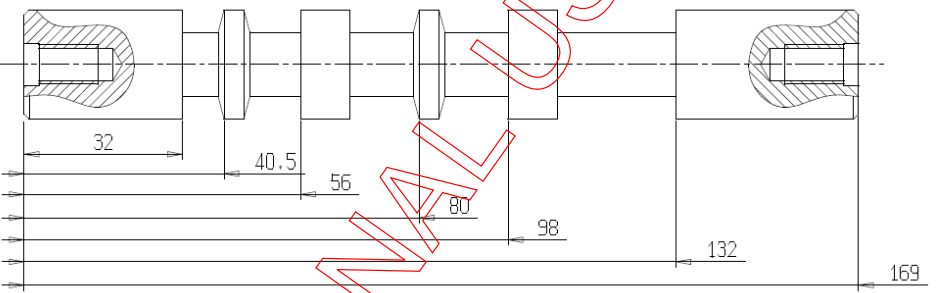
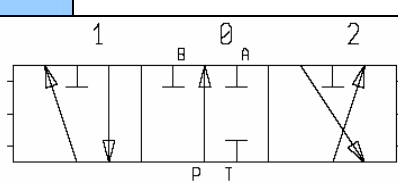
DL1	G	Z(180)	A	<b>1</b>						
I	II	III	IV	<b>V</b>	VI	VII	VIII	IX	X	XI

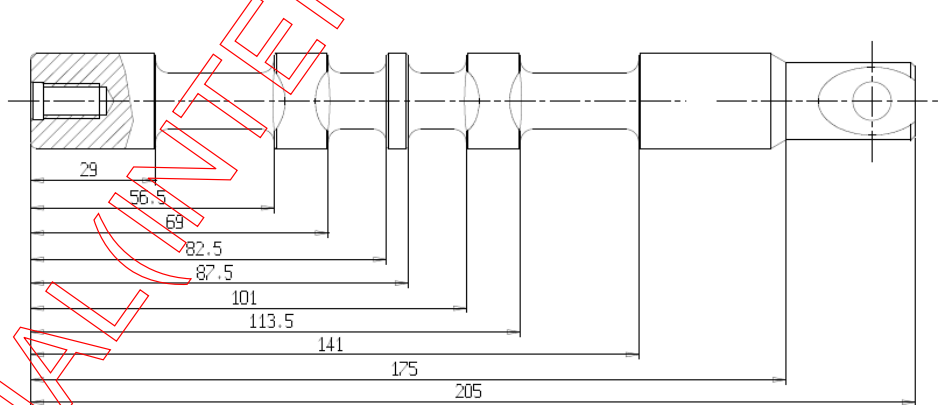
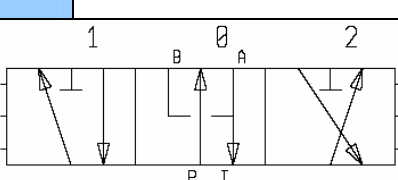
**Available circuit**

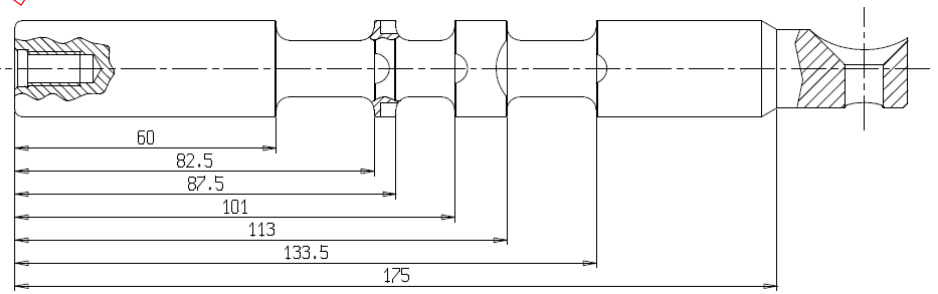
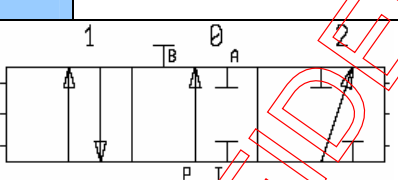
<b>CIRCUIT 1</b>		Double acting with 3 positions, A and B closed in central position.
<b>CIRCUIT 3</b>		Double acting with 3 positions, A and B connected to the tank in central position.
<b>CIRCUIT 4</b>		Simple acting in A and port B plugged.
<b>CIRCUIT 5</b>		Simple acting in B and port A plugged.
<b>CIRCUIT 10</b>		Double acting with 3 positions, B connected to the tank in neutral position.
<b>CIRCUIT 23</b>		Double acting, with positions 1, central, 2 and 4; with A and B closed in central position and regenerative position in 2.

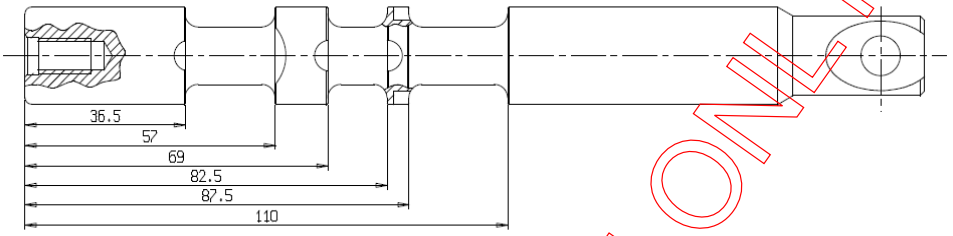
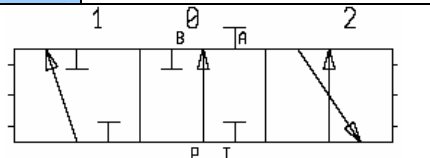


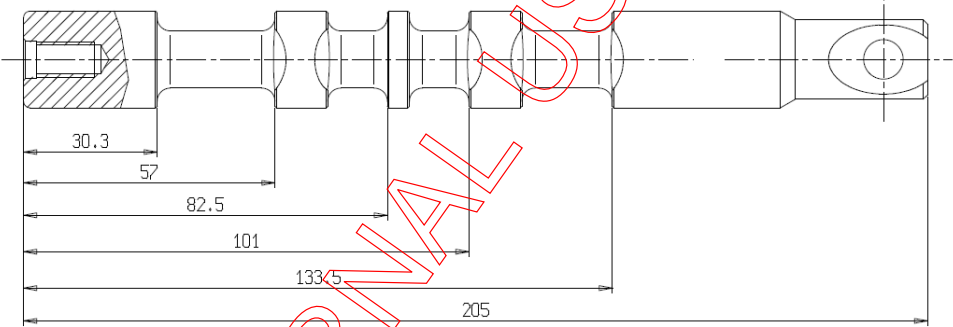
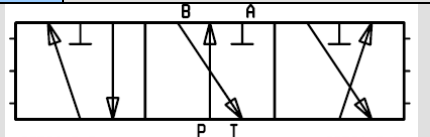
<b>1</b>	DO2921HH01000	
	 <p>Circuit 1 spool</p>	

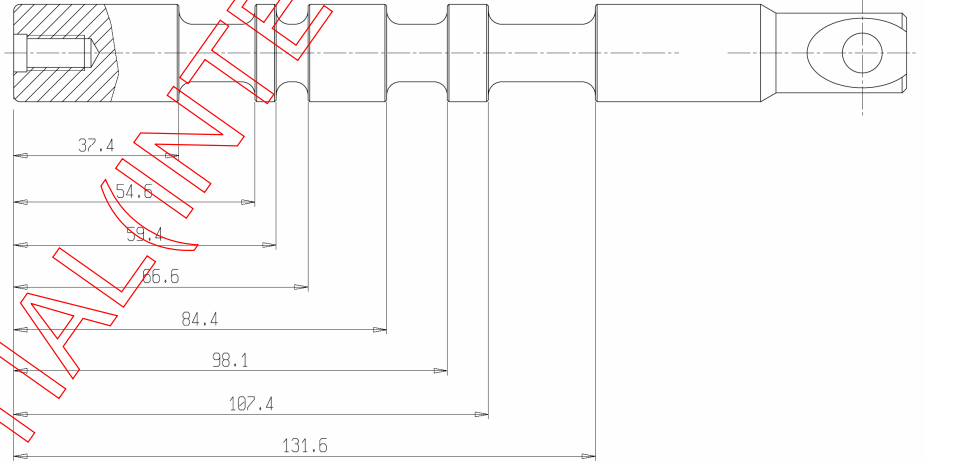
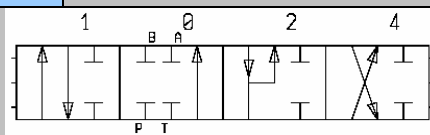
<b>1</b>	DO2921HH01005	
	 <p>Circuit 1 spool, without extension, regenerative</p>	

<b>3</b>	DO2921HH03000	
	 <p>Circuit 3 spool, with extension, stroke 8_8 mm</p>	

<b>4</b>	DO2921HH04000	
	 <p>Circuit 4 spool, with extension, stroke 9_9 mm</p>	

<b>5</b>	<b>DO2921HH05000</b>	
 <p>Circuit 5 spool, with extension, stroke 9.9 mm</p>		

<b>10</b>	<b>DO2921HH10001</b>	
 <p>Circuit 10 spool</p>		

<b>23</b>	<b>DO2921HH23000</b>	
 <p>Circuit 23 spool</p>		

**Spools**

Circuit	Code	Type of extension	Description
1	DO2921HH01000	With extension	Symmetric spool
1	DO2921HH01002	With extension	Undersized D22 diameter
1	DO2921HH01005	Without extension	Rigenerative circuit 71
3	DO2921HH03000	With extension	Symmetric spool
4-5	DO2921HH04000	With extension	Left inlet (c.4) – Right inlet (c.5)
4-5	DO2921HH05000	With extension	Left inlet (c.4) – Right inlet (c.5)
10	DO2921HH10001	With extension	-
23	DO2921HH23000	With extension	-

**Spool characteristics**

Note: characteristic bends of spools circuit 1-4-5 are the same as circuit 3.  
 Circuit 1 and 3 spools differ for neutral position. In neutral position circuit 1 has user ports closed, while circuit 3 has user ports connected to the tank line.  
 Circuits 4 and 5, called “simple acting”, work respectively only with port A (circuit 4) and port B (circuit 5).

**Spools / spool controls compatibility chart**

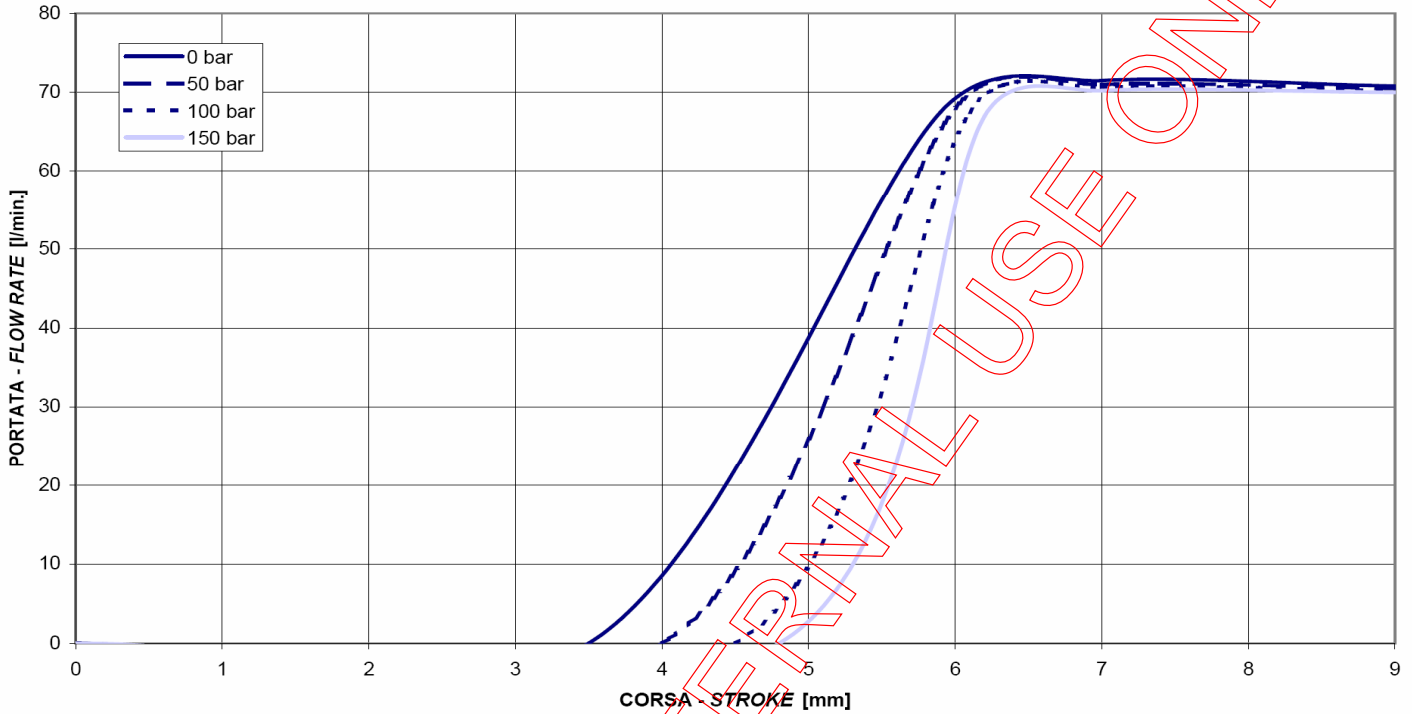
Circuito Circuit	A	B	C	D	H	S
1	■	■	■	■	□	■
3	■	■	■	■	■	
4	■	■	□	■	□	
5	■	□	■	■	□	
23	X	X	X	X	X	■

□ = not advised    X = not available    ■ = available

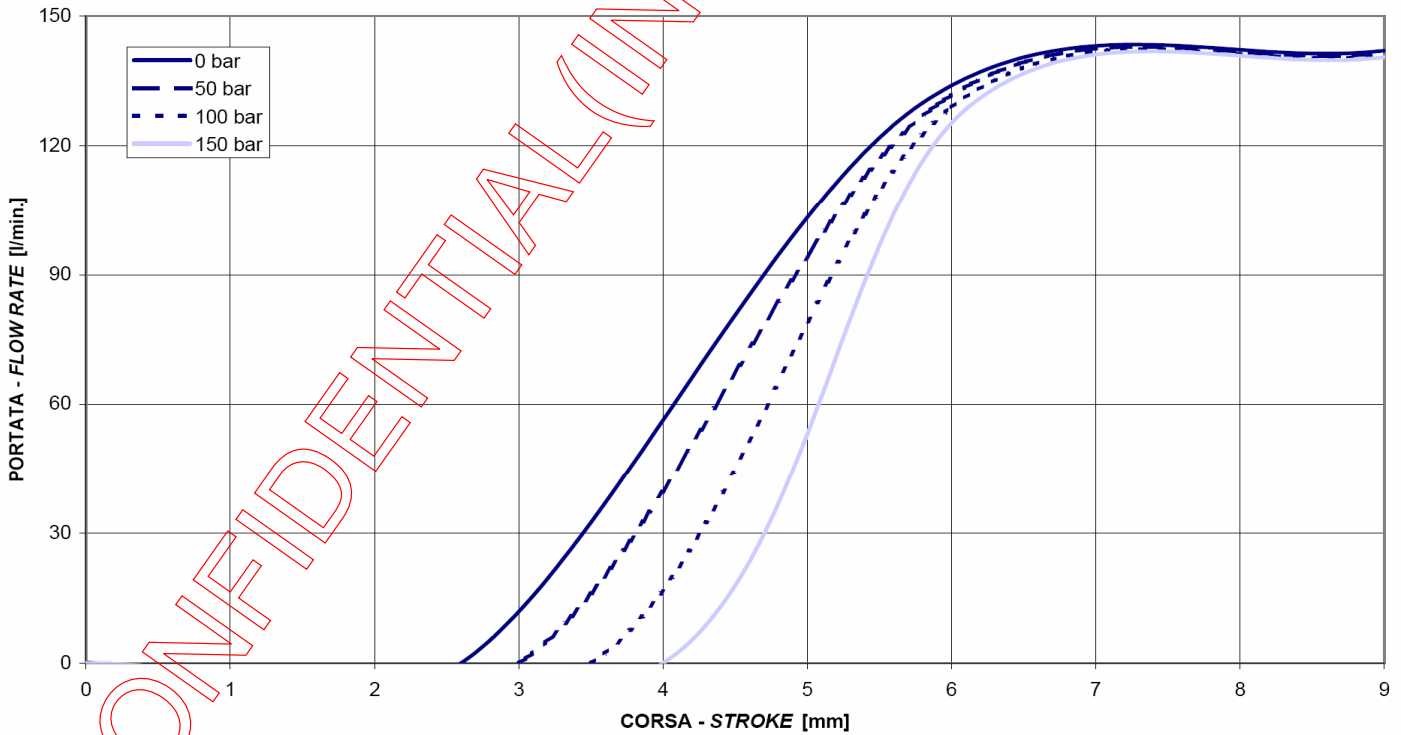


**Spool features**

CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921HH03000) 21cSt



CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921HH03000) 21cSt



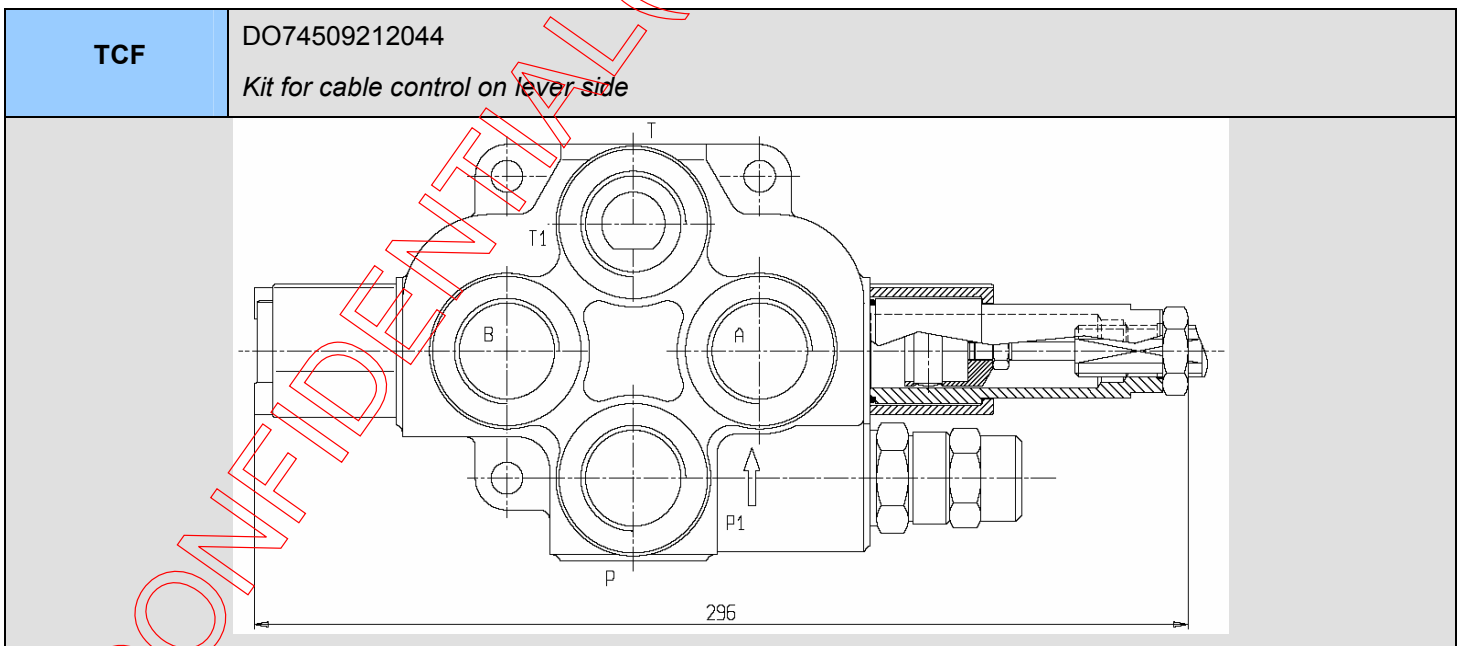
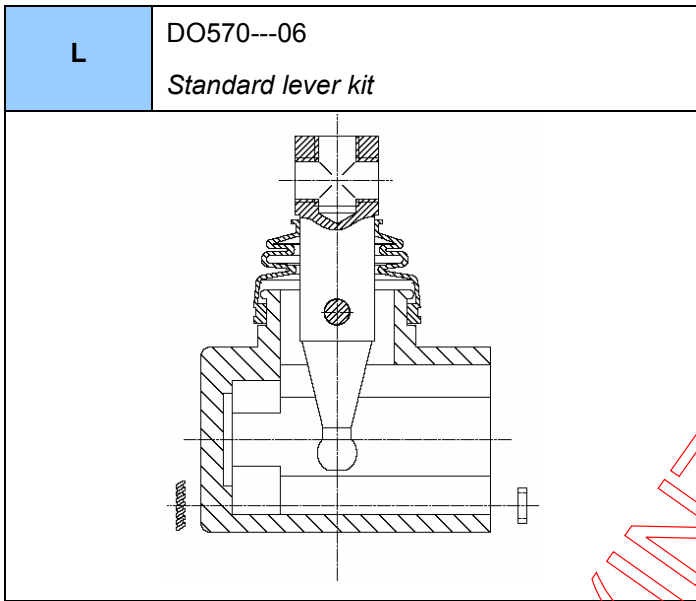


**VI**

**Actuators on lever side**

**Ordering instructions**

<b>DL1</b>	<b>G</b>	<b>Z(180)</b>	<b>A</b>	<b>1</b>	<b>L</b>				
I	II	III	IV	V	VI	VII	VIII	IX	X

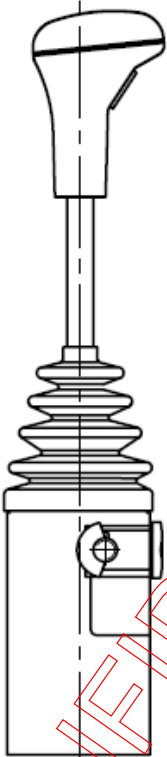


**Special actuators on lever side**

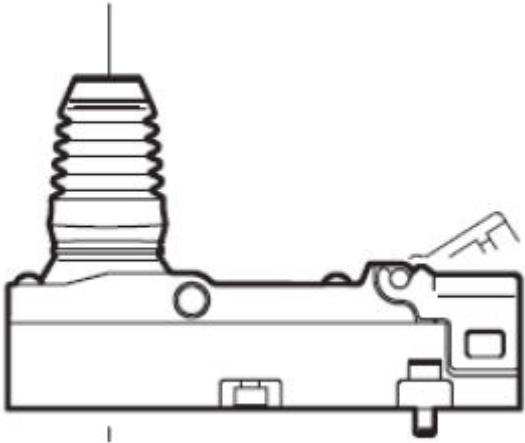
Horizontal intentional lever	LI	DO54046001
Horizontal intentional lever L.300 mm	LI	DO54046002
Vertical intentional lever	LI	DO54046005
Vertical intentional lever with horizontal plate	LIPO	DO54046004
Lever for micro predisposition		DO57013301
Lever with forward extension		DO57012103
Pneumatic actuators S.A	P	DO57012003

**Actuators for cable control**

DO775---  
Dual axis joystick for cable control



DO790---  
Single axis joystick for cable control



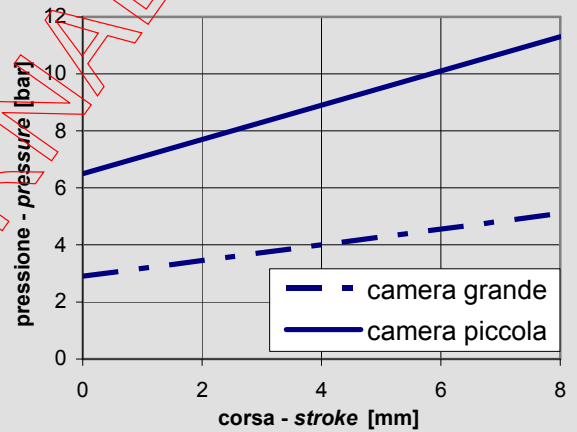
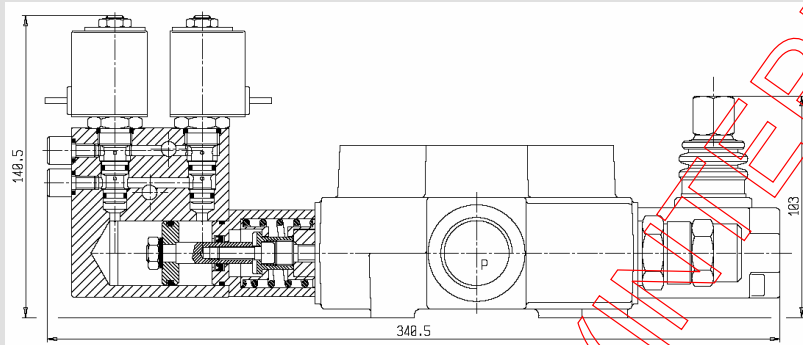
**VII**

**Actuators on spool control side**

**Ordering instructions**

DL1	G	Z(180)	A	1	L	<b>EH</b>			
I	II	III	IV	V	VI	VII	VIII	IX	X

<b>EH</b>	DO51546010-10 (with DO580900A03 spool control) Electro hydraulic actuator
-----------	--



**Special actuators on spool control side**

S.A. Pneumatic actuators	<b>P</b>	DO5754201
D.A. Pneumatic actuators	<b>EP</b>	DO5XG80462002



**VIII**

**Following section**

**Ordering instructions**

<b>DL1</b>	<b>G</b>	<b>Z(180)</b>	<b>A</b>	<b>1</b>	<b>L</b>	<b>EH</b>	<b>A1L</b>		
I	II	III	IV	V	VI	VII	VIII	IX	X

Repeat ordering instruction IV, V, VI for each section.

IV	V	VI
----	---	----



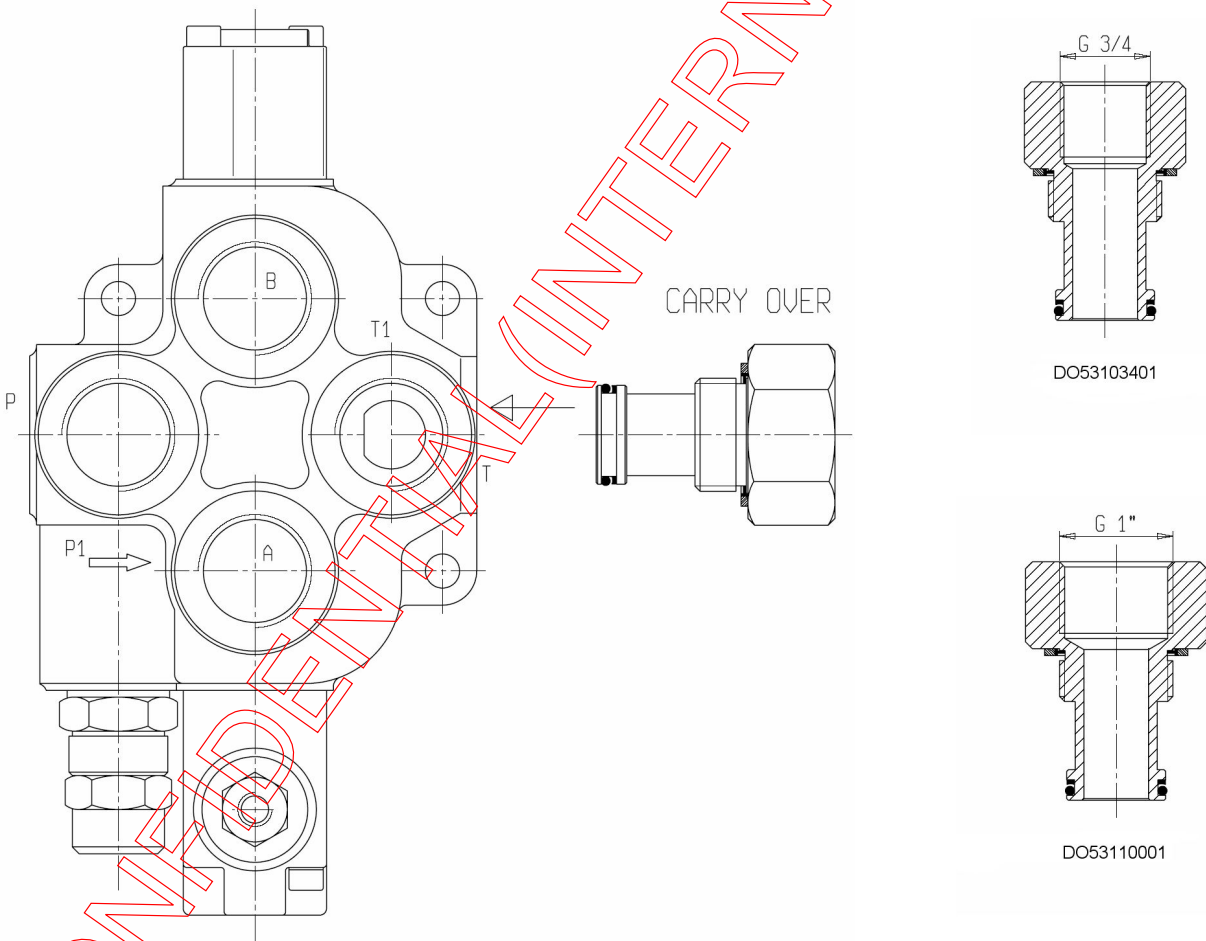
**IX**

**Options on the T line**

**Ordering instructions**

<b>DL1</b>	<b>G</b>	<b>Z(180)</b>	<b>A</b>	<b>1</b>	<b>L</b>	<b>EH</b>	<b>A1L</b>	<b>C.O.</b>	
I	II	III	IV	V	VI	VII	VIII	IX	X

<b>C.O. (power beyond)</b>	Carry over predisposition is optional.
----------------------------	--





**X**


**Type of P – T**

**Ordering instructions**

DL1	G	Z(180)	A	1	L	EH	A1L	G.O.	PT
I	II	III	IV	V	VI	VII	VIII	IX	X


<b>PT</b>	<i>Port P and T open, port P1T1 plugged</i>
<b>P1T1</b>	<i>Port P1 and T1 open, port P and T plugged</i>
<b>PP1TT1</b>	<i>Port P, P1, T, T1 open</i>

**Levers**

<p>DO5351---</p> <p><i>M10 Lever kit</i></p>		L (mm)	Lever code	254	535125002
		184	535118002	304	535130002
		84	535108002	354	535135002
		104	535110002	404	535140002
		109	535110502	454	535145002
		134	535113002	504	535150002
		154	535115002	604	535160002
		214	535121002	674	535167002


DO535199901

*Ergonomic straight lever*




DO535199912

*Ergonomic 90° rotated straight lever*




DO535199902

*Ergonomic 15° bent lever*



DO535199903

*Ergonomic 30° bent lever*



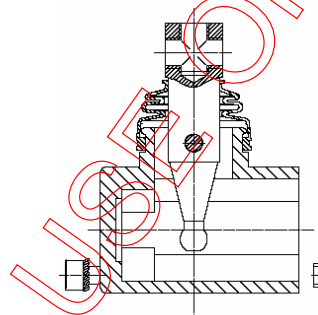

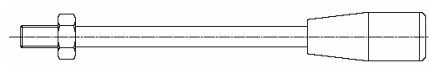

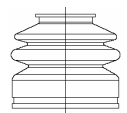
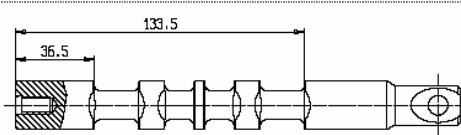
**Standard machining**

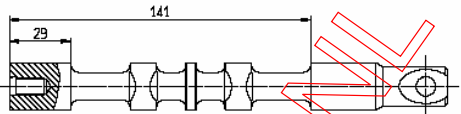
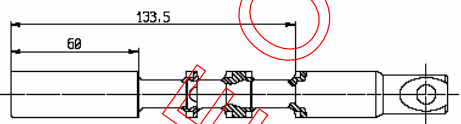
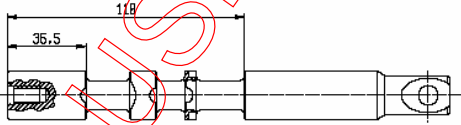
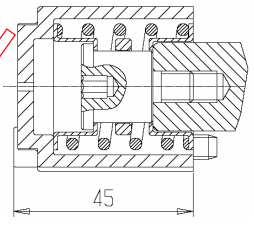
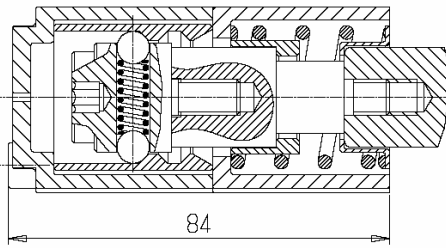
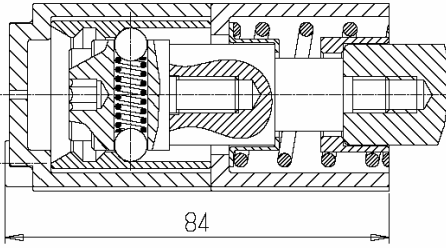
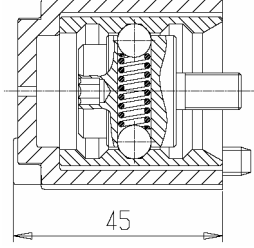
<b>Code</b>	<b>Description</b>
L0H01006	<i>Plan machining for code printing</i>
L0H01002	<i>Machining for carry over 1"G</i>
L0H01004	<i>Standard circuit machining c.23</i>

**Semi-finished products**

<b>Code</b>	<b>Description</b>
4H1---	<i>Machined DL1</i>
4H1ZZZZZ0990001	<i>DL M33x2 (UT ltd INDIA)</i>
4H1UUUUU0990001	<i>DL M27x2 (UT ltd INDIA)</i>

## Spare part list

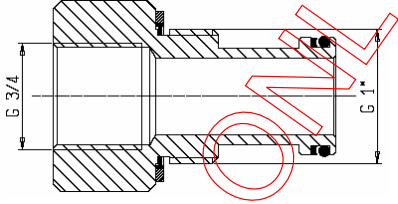
Codice Code	Descrizione Description	Disegno sezione Sectional view
DO57011108R	Kit N°1 Portaleva con viti cod. DO57011108 Kit N°1 Housing lever with screws cod. DO57011108	
DO57011108R10	Kit N°10 Portaleva con viti cod. DO57011108 Kit N°10 Housing levers with screws cod. DO57011108	
DO535118002R	N° 1 Leva M10 x 180 mm cod. DO535118002 N° 1 Lever M10 x 180 mm cod. DO535118002	
DO535118002R20	Kit N°20 Leve M10 x 180 mm cod. DO535118002 Kit N°20 Levers M10 x 180 mm cod. DO535118002	
DO535113002R	N° 1 Leva M10 x 130 mm cod. DO535113002 N° 1 Lever M10 x 130 mm cod. DO535113002	
DO535113002R20	Kit N°20 Leve M10 x 130 mm cod. DO535113002 Kit N°20 Levers M10 x 130 mm cod. DO535113002	
DO535125002R20	N° 1 Leve M10 x 250 mm cod. DO535125002 N° 1 Lever M10 x 250 mm cod. DO535125002	
DO535125002R20	Kit N°20 Leve M10 x 250 mm cod. DO535125002 Kit N°20 Levers M10 x 250 mm cod. DO535125002	
DO28602001R	N° 1 Soffietto per leva standard N° 1 Hood for standard lever	
DO28602001R20	Kit N° 20 Soffietti per leva standard Kit N° 20 Hoods for standard lever	
DO2921HH01000R	N° 1 Spola d. 22 mm DL c.1 N° 1 Spool d. 22 mm DL c.1	
DO2921HH01000R05	Kit N°5 Spole d. 22 mm DL c.1 Kit N°5 Spools d. 22 mm DL c.1	

DO2921HH03000R	N° 1 Spola d. 22 mm DL c.3 N° 1 Spool d. 22 mm DL c.3	
DO2921HH03000R05	Kit N°5 Spole d. 22 mm DL c.3 Kit N°5 Spools d. 22 mm DL c.3	
DO2921HH04000R	N° 1 Spola d. 22 mm DL c.4 N° 1 Spool d. 22 mm DL c.4	
DO2921HH04000R05	Kit N°5 Spole d. 22 mm DL c.4 Kit N°5 Spools d. 22 mm DL c.4	
DO2921HH05000R	N° 1 Spola d. 22 mm DL c.5 N° 1 Spool d. 22 mm DL c.5	
DO2921HH05000R05	Kit N°5 Spole d. 22 mm DL c.5 Kit N°5 Spools d. 22 mm DL c.5	
DO580900A01R	Kit N° 1 Posizionatore cod. DO580900A01 Kit N° 1 Spool control cod. DO580900A01	
DO580900A01R10	Kit N°10 Posizionatori cod. DO580900A01 Kit N°10 Spool controls cod. DO580900A01	
DO580900B01R	Kit N° 1 Posizionatore cod. DO580900B01 Kit N°1 Spool control cod. DO580900B01	
DO580900B01R10	Kit N°10 Posizionatori cod. DO580900B01 Kit N°10 Spool controls cod. DO580900B01	
DO580900C01R	Kit N° 1 Posizionatore cod. DO580900C01 Kit N° 1 Spool control cod. DO580900C01	
DO580900C01R10	Kit N°10 Posizionatori cod. DO580900C01 Kit N°10 Spool controls cod. DO580900C01	
DO580900D01R10	Kit N°1 Posizionatore cod. DO580900D01 Kit N°1 Spool control cod. DO580900D01	
DO580900D01R10	Kit N°10 Posizionatori cod. DO580900D01 Kit N°10 Spool controls cod. DO580900D01	



DOWPD053/4080R	N° 1 Cartuccia VMP dir. X 80 bar N° 1 Dir. Cartridge VMP X 80 bar	
DOWPD053/4080R05	Kit N°5 Cartucce VMP dir. X 80 bar Kit N°5 Dir. Cartridges VMP X 80 bar	
DOWPD053/4130R	N° 1 Cartuccia VMP dir. Y 130 bar N° 1 Dir. Cartridge VMP Y 130 bar	
DOWPD053/4130R05	Kit N°5 Cartucce VMP dir. Y 130 bar Kit N°5 Dir. Cartridges VMP Y 130 bar	
DOWPD053/4180R	N° 1 Cartuccia VMP dir. Z 180 bar N° 1 Dir. Cartridge VMP Z 180 bar	
DOWPD053/4180R05	Kit N°5 Cartucce VMP dir. Z 180 bar Kit N°5 Dir. Cartridges VMP Z 180 bar	
DO526A05NN002R	Kit N°50 OR DO350B23081NBR70 (rif. A) + Kit N°50 OR DO350B17086NBR70 (rif. B) per VMP Kit N°50 OR DO350B23081NBR70 (ref. A) + Kit N°50 OR DO350B17086NBR70 (ref. B) for VMP	
DO526B05NN001R	Kit N°50 BR cod. DO315617 per VMP Kit N°50 BR cod. DO315617 for VMP	
DO526C11NN002R	Kit N°50 OR DO350B23047NBR70 (rif. A) + N°50 BR DO315119 (rif. B) per kit C.O. DL-DN120 Kit N°50 OR DO350B23047NBR70 (ref. A) + N°50 BR DO315119 (ref. B) for DL-DN120 C.O. kit	
DO53110001R	N° 1 Kit C.O. DO53110001 N° 1 C.O. kit DO53110001	
DO53110001R05	Kit N°5 Kit C.O. DO53110001 Kit N°5 C.O. kit DO53110001	



DO53103401R	N° 1 Kit C.O. DO53103401 N° 1 C.O. kit DO53103401	
DO53103401R05	Kit N°5 Kit C.O. DO53103401 Kit N°5 C.O. kit DO53103401	
DO526A04NN001R	Kit N°50 OR cod. DO350B22022NBR70 per spole D. 22 mm Kit N°50 OR cod. DO350B22022NBR70 for D. 22 mm spools	

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