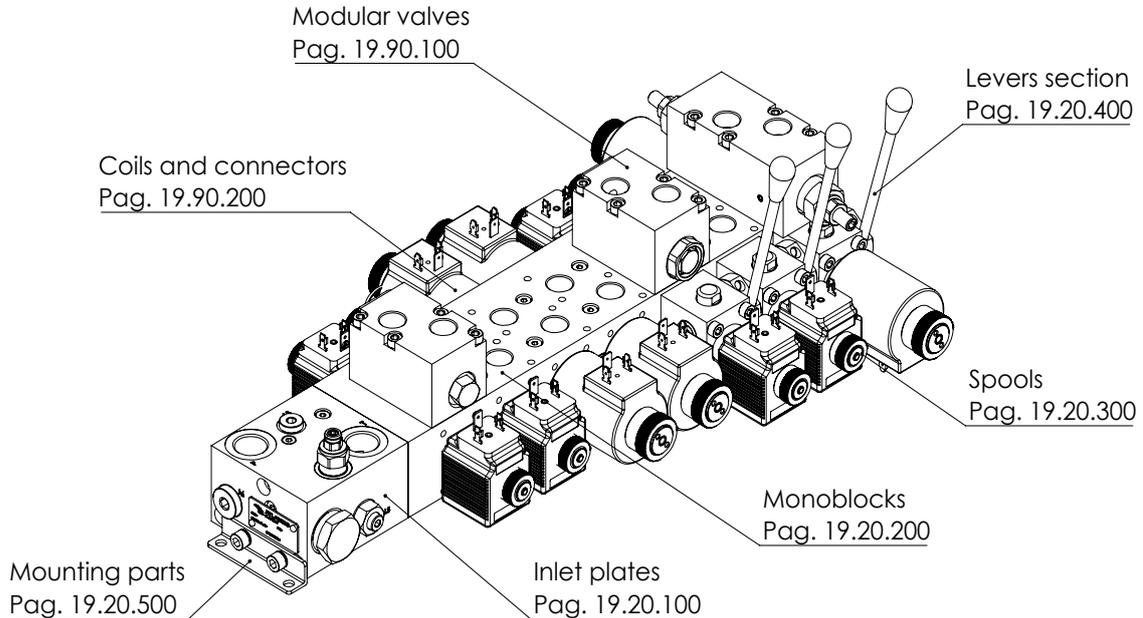


EBL series

MONOBLOCK LOAD SENSING VALVE ON-OFF OR PROPORTIONAL



FEATURES

- Compact dimensions
- Low weight
- Custom spools
- Custom inlet blocks
- LS line on each spool section
- Sandwich valves for extra functions
- Cast iron monoblock and aluminum inlet block for standard applications
- High resistance cast iron monoblock and steel inlet block for high pressure systems
- Optional levers for manual operation
- No leak risk between sections
- Spools not under rod tension
- Zinc plated/anodized components for corrosion resistance

SPECIFICATION \ DESCRIPTION

MAXIMUM OPERATING PRESSURE	Steel inlet block: 320 bar (4600 PSI) Aluminium inlet block: 210 bar (3045 PSI)
MAXIMUM TANK PRESSURE	20 bar (290 PSI)
RATED FLOW	030 series: 30 l/min (7.9 GPM) 060 series: 60 l/min (15.8 GPM)
COIL POWER	030 series: 26 W 060 series: 33 W
VOLTAGE	12 Vdc, 24 V DC, others on request
COIL CONNECTOR	DIN43650, AMP Junior, Deutsch DT04-2P
PORTS	Inlet: G1/2", 1/2 JIS, 7/8-14 UNF-2B (SAE#10) Outlet: G3/8", 3/8 JIS, 3/4-16 UNF-2B (SAE#8)
OPERATING TEMPERATURE	NBR (ISO 1629) seals: -30, + 80 °C FKM (ISO 1629) seals: -20, +110 °C
FILTRATION	ISO 4406:1999: class 19/17/14 NAS 1638: class 8
MOUNTING POSITION	No restrictions
MATERIAL	Spool body: cast iron Spool: Hardened and grounded steel Inlet block: Aluminium or steel
SURFACE TREATMENT	Steel: zinc plating Aluminium: anodization

EBL series is a new directional load sensing valve that has innovative features in terms of performance, dimension, manufacturing reliability and customization. The valve consists in an inlet block flanged to a monoblock with spools. This construction gives the advantages of high flexibility in inlet block schemes, combined with the reliability and simplicity of monoblock spool valve construction, eliminating the risk of spools blocking due to overtightening of tie rods or the risk of leakage between sections. The spool monoblock is a 2 or 3 position, 4 ways, direct acting solenoid operated type. All sections have threaded ports at the top and removable plugs for tank connections to allow the installation of flanged blocks with additional functions like crossover reliefs, reliefs to tank, relief and anticavitations, counterbalance valves, P.O. checks, flow restrictors and flow regulators. All sections are equipped with standard push button override and they can be equipped with lever for manual use.

HOW ORDER IT

To order the separate parts please refer to each catalogue page.

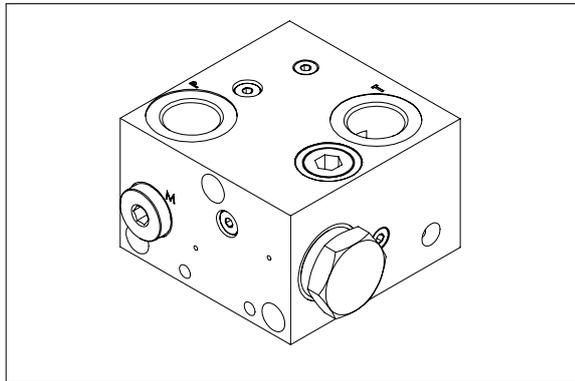
To order an assembled block, contact AFT sales network specifying the part numbers following page 19.90.900 path.

For special versions please contact AFT sales network.

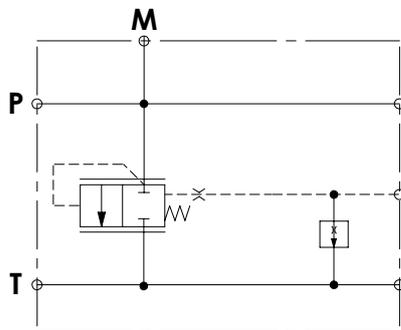
EBL series - INLET SECTION

SFLL-060-ZDNN-16

**P, T PORTS
M PORT**



HYDRAULIC SCHEME

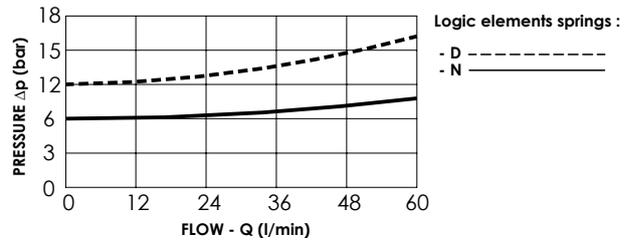


This inlet section is equipped with two thread ports (P,T) available in two different types G 1/2" or 3/4"-16 UNF plus a third threaded port M for pressure measuring available in G 1/4" or 7/16"-20. The manifold material is aluminium for applications up to 210 bar or zinc plated steel for applications up to 320 bar.

TECHNICAL DATA

Max pressure	210/320 bar
Rated flow	60 l/min
Hydraulic fluid	Mineral oil DIN 51524
Fluid viscosity	10-500 mm ² /s
Fluid temperature	-25°C/75°C
Environment temperature	-25°C/60°C
Weight	0,9 Kg

PRESSURE DROP LOGIC ELEMENT

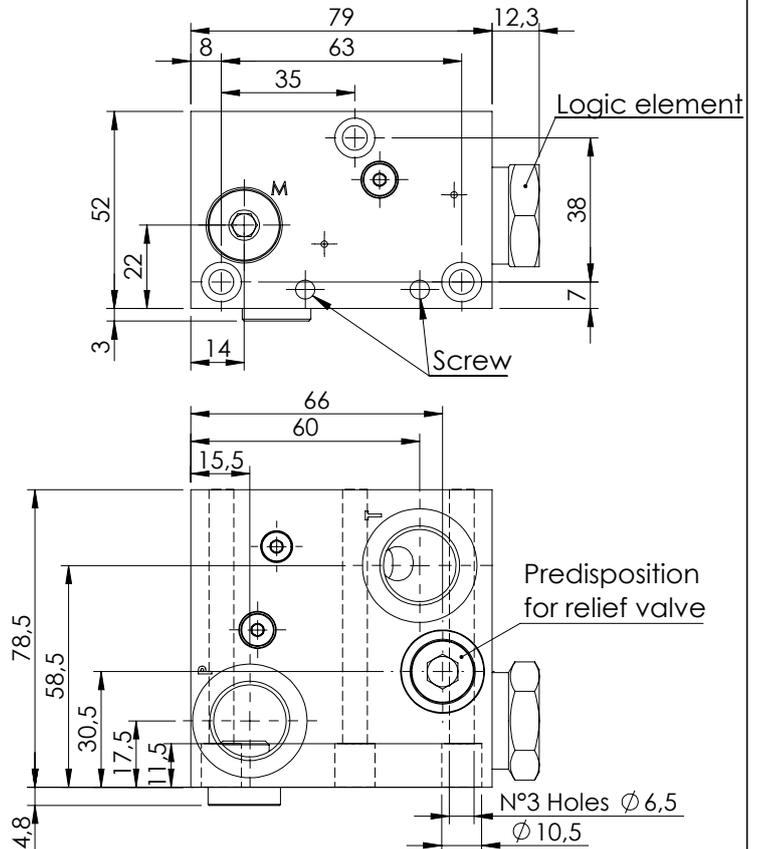


ORDERING DETAILS: SEPARATE ELEMENTS

SFLL-060- * * NN-16- * -N**

* MATERIAL TYPE	
A	Steel zinc-plated (320 bar)
Z	Aluminium anodized (210 bar)
* LOGIC ELEMENT SPRING	
D	Spring setting 12 bar (CD000103)
N	Spring setting 6 bar (CD000073)
*** PORTS	
	P line T line M
G12	G 1/2" G 1/2" G 1/4"
U34	3/4"-16 UNF 3/4"-16 UNF 7/16"-20 UNF
QUICK CODE	
DESCRIPTION	CODE
SFLL-060-ZDNN-16-G12-N	SF000045

OVERALL DIMENSIONS

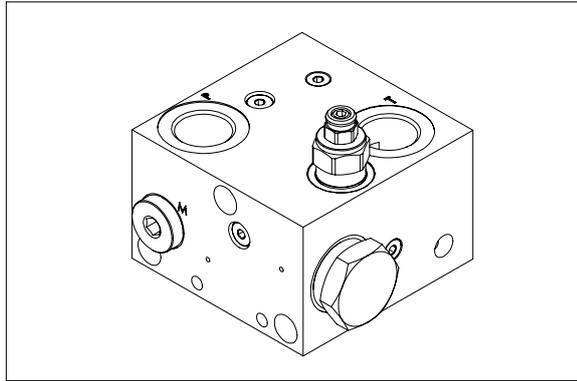


EBL series - INLET SECTION

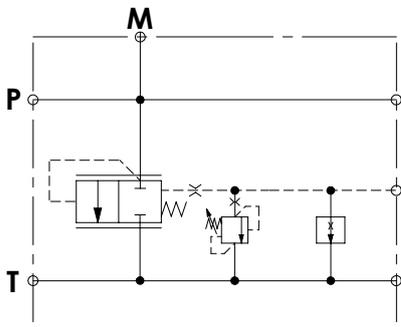


SFLL-060-ZDNN-17

**RELIEF VALVE
M PORT**



HYDRAULIC SCHEME

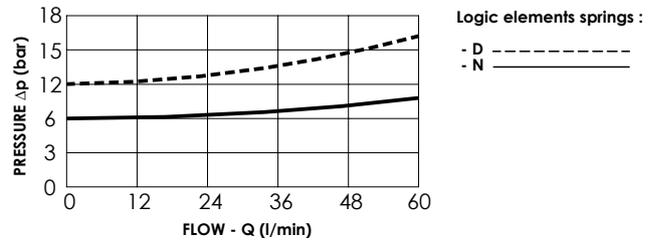


This inlet section is equipped with relief valve with adjustable setting operating on Ls signal, the adjustment is made by socket screw. This inlet section is equipped with two thread ports (P,T) available in two different types G 1/2" or 3/4"-16 UNF plus a third threaded port M for pressure measuring available in G 1/4" or 7/16"-20. The manifold material is aluminium for applications up to 210 bar or zinc plated steel for applications up to 320 bar.

TECHNICAL DATA

Max pressure	210/320 bar
Rated flow	60 l/min
Hydraulic fluid	Mineral oil DIN 51524
Fluid viscosity	10-500 mm ² /s
Fluid temperature	-25°C/75°C
Environment temperature	-25°C/60°C
Weight	0,9 Kg

PRESSURE DROP LOGIC ELEMENT



ORDERING DETAILS: SEPARATE ELEMENTS

SFLL-060-*N-17-***-N**

*	MATERIAL TYPE
A	Steel zinc-plated (320 bar)
Z	Aluminium anodized (210 bar)

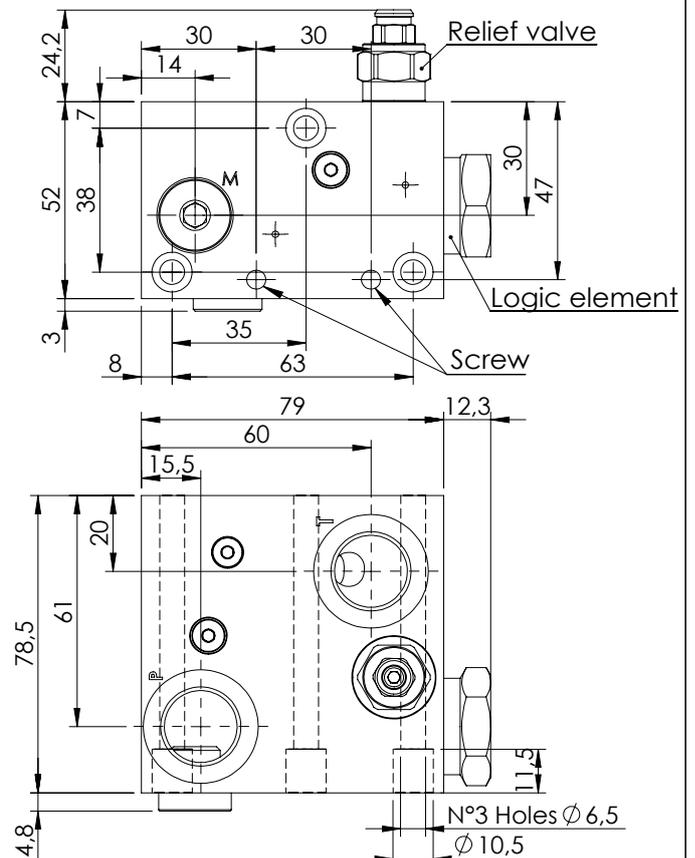
*	LOGIC ELEMENT SPRING
D	Spring setting 12 bar (CD000103)
N	Spring setting 6 bar (CD000073)

*	SETTING RANGE
N	Max setting 210 bar (CP000029)
A	Max setting 110 bar (CP000030)
B	Max setting 350 bar (CP000002)

***	PORTS
	P line T line M
G12	G 1/2" G 1/2" G 1/4"
U34	3/4"-16 UNF 3/4"-16 UNF 7/16"-20 UNF

QUICK CODE	
DESCRIPTION	CODE
SFLL-060-ZDNN-17-G12-N	SF000010
SFLL-060-ZNNN-17-G12-N	SF000032

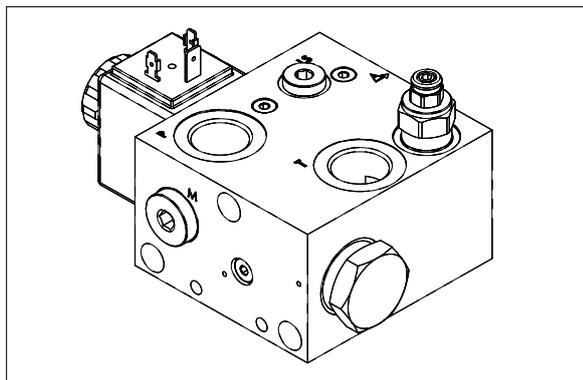
OVERALL DIMENSIONS



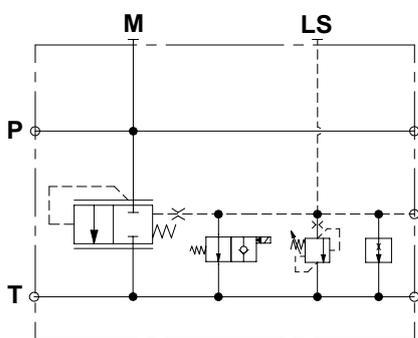
EBL series - INLET SECTION

SFLL-060-ZDNN-19

**RELIEF VALVE
UNLOADING VALVE**



HYDRAULIC SCHEME

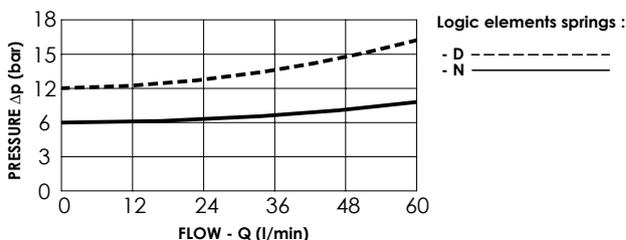


This inlet section is equipped with relief valve with adjustable setting operating on Ls signal, the adjustment is made by socket screw. It is present an unloading solenoid valve normally open with emergency operating on Ls signal. There are two thread ports (P, T) available in two different types G 1/2" or 3/4"-16 UNF plus M port available in G 1/4". Max inlet flow 60 l/min. The manifold material is aluminium for applications up to 210 bar or zinc plated steel for applications up to 320 bar.

TECHNICAL DATA

Max pressure	210/320 bar
Rated flow	60 l/min
Hydraulic fluid	Mineral oil DIN 51524
Fluid viscosity	10-500 mm ² /s
Fluid temperature	-25°C/75°C
Environment temperature	-25°C/60°C
Weight	1,05 Kg

PRESSURE DROP LOGIC ELEMENT



ORDERING DETAILS: SEPARATE ELEMENTS

SFLL-060-*N-19-***-***N**

*	MATERIAL TYPE
A	Steel zinc-plated (320 bar)
Z	Aluminium anodized (210 bar)

*	LOGIC ELEMENT SPRING
D	Spring setting 12 bar (CD000103)
N	Spring setting 6 bar (CD000073)

*	SETTING RANGE
N	Max setting 210 bar (CP000029)
A	Max setting 110 bar (CP000030)
B	Max setting 350 bar (CP000032)

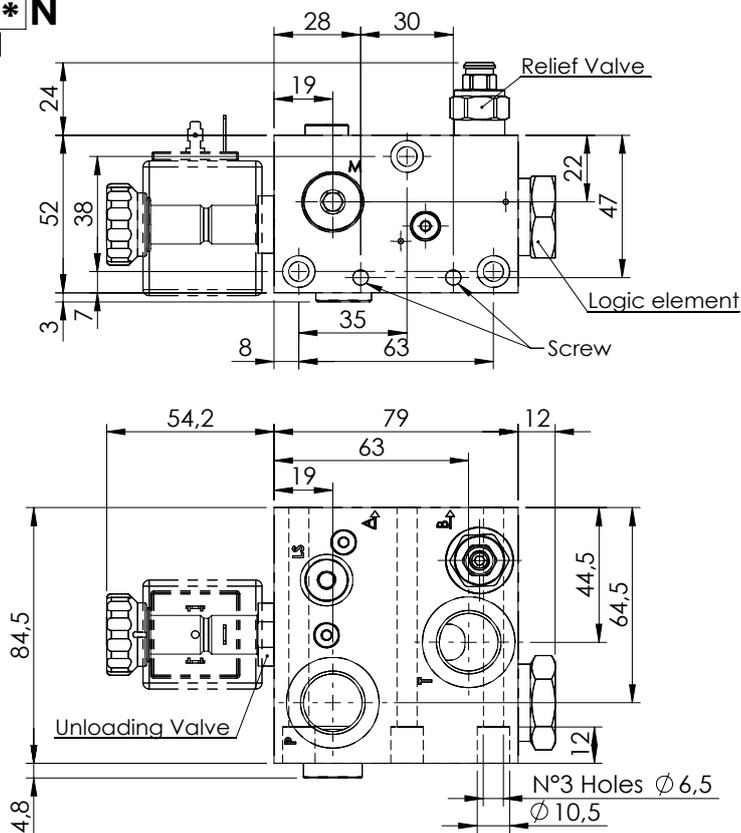
***	PORTS
	P line T line M
G12	G 1/2" G 1/2" G 1/4"
U34	3/4"-16 UNF 3/4"-16 UNF 7/16"-20 UNF

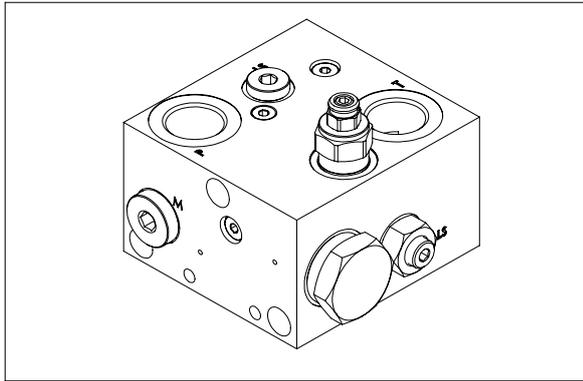
*	VOLTAGE
	no coils
A	12 V DC
B	24 V DC

**	COILS TYPE
	no coils
HR	Hirshmann (ISO 4400 DIN 43650)
DT	Deutsch (DT04-2P)
AJ	Amp junior (AJ type)

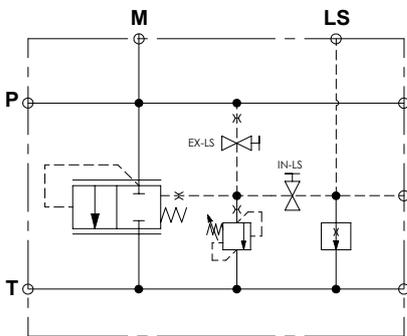
QUICK CODE	
DESCRIPTION	CODE
SFLL-060-ZDNN-19-G12-N	SF000019
Unloading Valve	CE000873

OVERALL DIMENSIONS





HYDRAULIC SCHEME

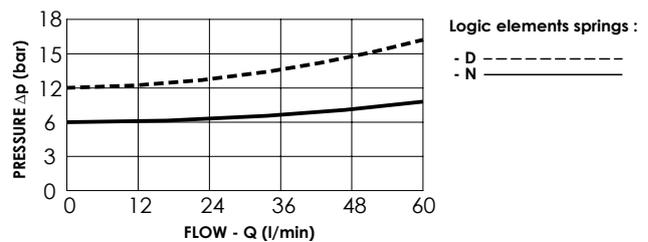


This inlet section is equipped with relief valve with adjustable setting operating on Ls signal, the adjustment is made by socket screw. It is present an unloading compensator normally closed operating with Ls signal. There are two thread ports (P, T) available in two different types G 1/2" or 3/4"-16 UNF plus M port available in G 1/4". Max inlet flow 60 l/min. The manifold material is aluminium for applications up to 210 bar or zinc plated steel for applications up to 320 bar.

TECHNICAL DATA

Max pressure	210/320 bar
Rated flow	60 l/min
Hydraulic fluid	Mineral oil DIN 51524
Fluid viscosity	10-500 mm ² /s
Fluid temperature	-25°C/75°C
Environment temperature	-25°C/60°C
Weight	1 Kg

PRESSURE DROP LOGIC ELEMENT

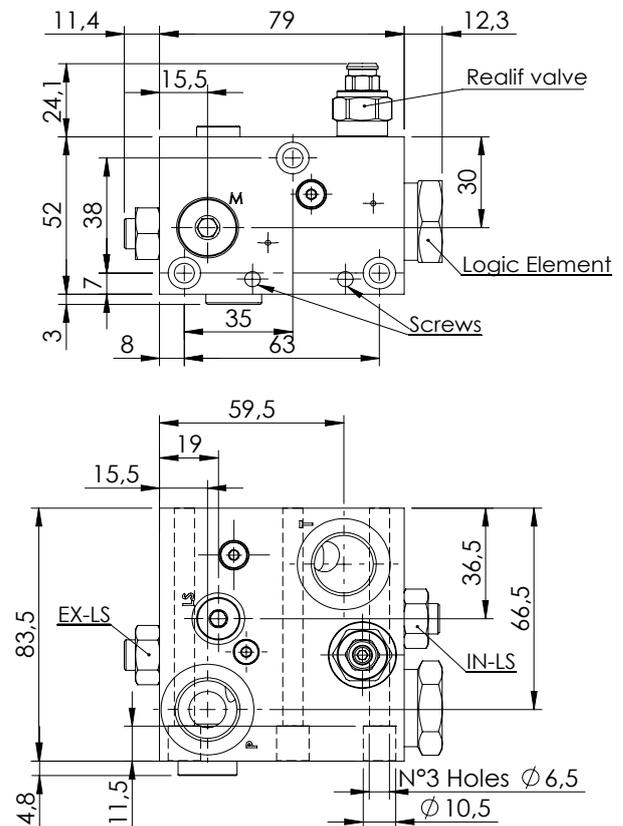


ORDERING DETAILS: SEPARATE ELEMENTS

SFLL-060-*N-18-***-N**

*	MATERIAL TYPE		
A	Steel zinc-plated (320 bar)		
Z	Aluminium anodized (210 bar)		
*	LOGIC ELEMENT SPRING		
D	Spring setting 12 bar (CD000103)		
N	Spring setting 6 bar (CD000073)		
*	SETTING RANGE		
N	Max setting 210 bar (CP000029)		
A	Max setting 110 bar (CP000030)		
B	Max setting 350 bar (CP000002)		
***	PORTS		
	P line	T line	M
G12	G 1/2"	G 1/2"	G 1/4"
U34	3/4"-16 UNF	3/4"-16 UNF	7/16"-20 UNF
	QUICK CODE		
	DESCRIPTION	CODE	
	SFLL-060-ZDNN-18-G12-N	SF000011	
	SFLL-060-ZNNN-18-G12-N	SF000031	

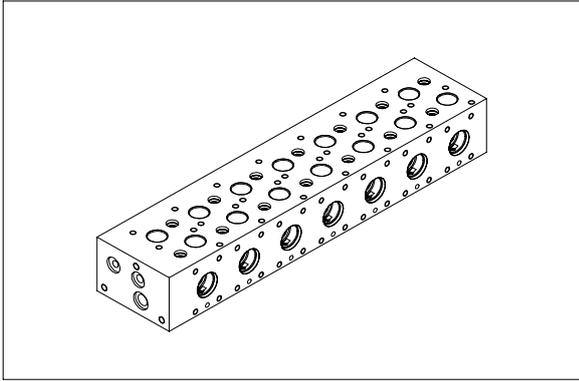
OVERALL DIMENSIONS



LDLP-060-NNNN

CAST-IRON MANIFOLD

In LDNS/P-030-C plug are included in the manifold



The monoblock valve can be ordered with a number of spool's section from 1 to 7, each section is equipped with side mounting holes for lever option and with threaded holes at the top for flangeable modular valve. There are also two removable plugs connecting to a T line to allow to flange special blocks.

The standard version has G 3/8" ports and can be supplied with top blocks with 9/16"-18 UNF (SAE6) or M16x1,5.

The manifold it is made with cast-iron and protected from corrosion with zinc-plating surface treatment.

The inlet face has 3 threaded holes to flange an inlet block that can be customized for each application, giving high flexibility to the project.

TECHNICAL DATA

Max pressure	320 bar
Rated flow	60 l/min
Material	Cast-iron
Surface treatment	Zinc-plated black
Weight for single section	1,9 kg
Wight for additional sections	+ 1,1 Kg each

ORDERING DETAILS: SEPARATE ELEMENTS

LDL * -060- NNNN - ** - ***

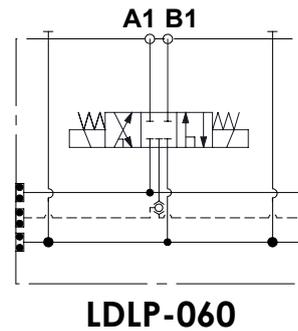
*	TYPE OF MANIFOLD
S	Series connection
P	Parallel connection

**	NUMBER OF SECTION
01	manifold with one section
02	manifold with two sections
03	manifold with three sections
04	manifold with four sections
05	manifold with five sections
06	manifold with six sections
07	manifold with seven sections

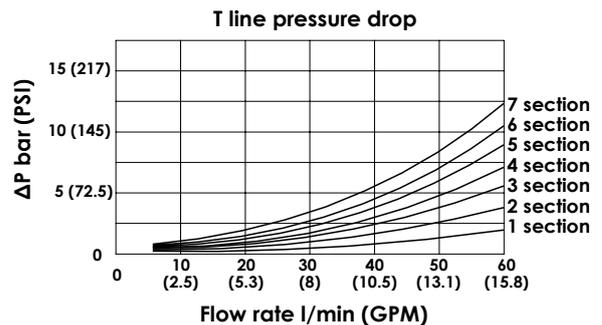
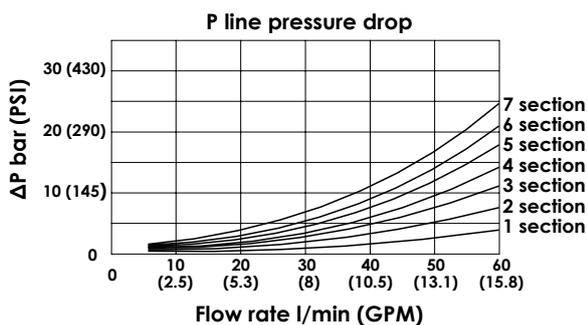
***	PORTS		
	P line	T line	M
G38	G 3/8"	G 3/8"	G 1/4"
U09	9/16"-18 UNF	9/16"-18 UNF	7/16"-20 UNF

QUICK CODE	
DESCRIPTION	CODE
LDLP-060-NNNN-01-G38	LD000183
LDLP-060-NNNN-02-G38	LD000184
LDLP-060-NNNN-03-G38	LD000185
LDLP-060-NNNN-04-G38	LD000187
LDLP-060-NNNN-05-G38	LD000188
LDLP-060-NNNN-06-G38	LD000189
LDLP-060-NNNN-07-G38	LD000190

MANIFOLD CONFIGURATIONS



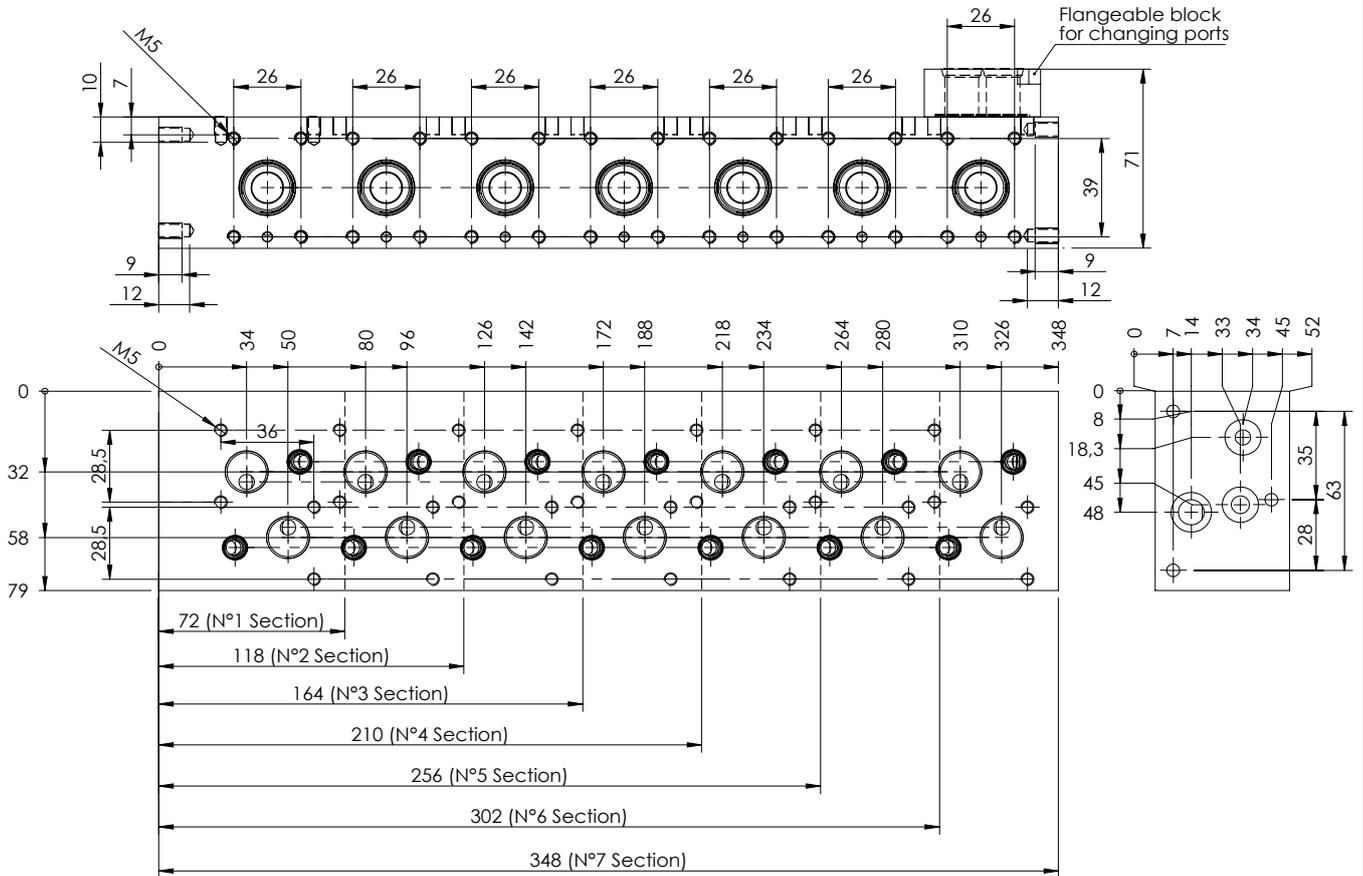
MONOBLOCK PRESSURE DROP



LDLP-060-NNNN

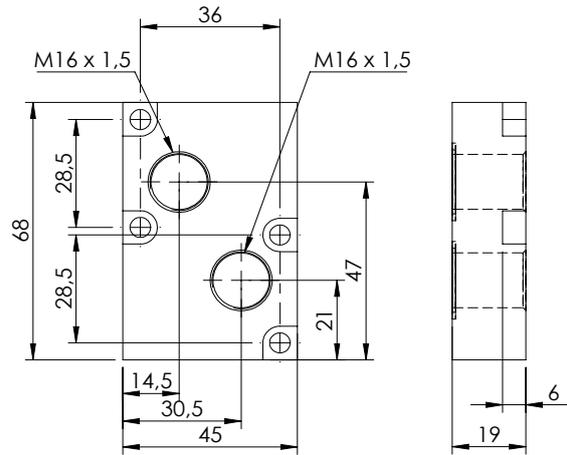
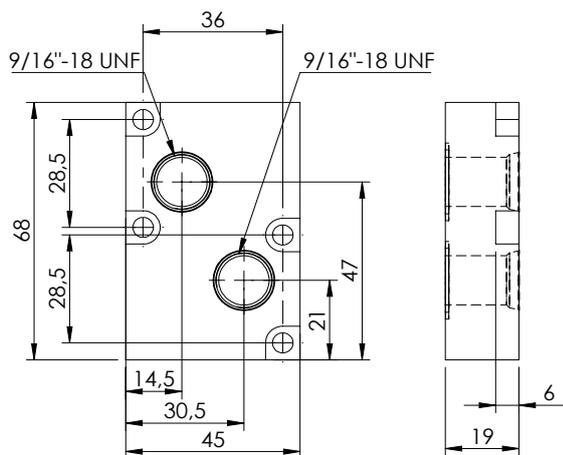
**CAST-IRON
MANIFOLD**

GAS VERSION



SAE VERSION

METRIC VERSION



This top flangeable block transform the monoblock to a UNF version.

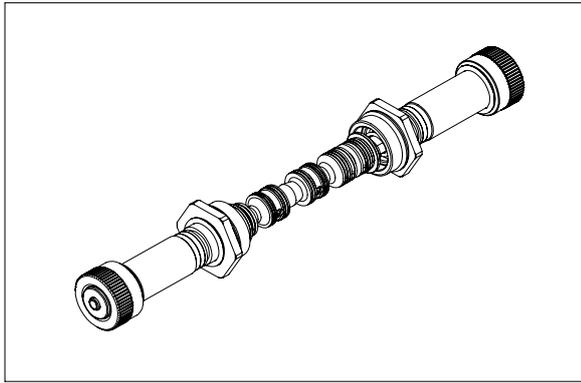
Quick code: MP000096

This top flangeable block transform the monoblock to a Metric version.

Quick code: MP000097

SHNE-030-LSON

30 L/MIN
SOLENOID VALVE



This spool group is rated for 30 lpm and for a maximum pressure of 320 bar; the spool is actuated by on off tubes and can be ordered with different hydraulic schemes. Each spools is interchangeable to give maximum flexibility and can be fit in all monoblock sections, changing spools require adequate training. The group is made by two tubes, one spool, two springs and mounting components.

TECHNICAL DATA

Max pressure	320 bar
Rated flow	30 l/min
Max excitation frequency	3 Hz
Duty cycle	100 % ED
Hydraulic fluid	Mineral oil DIN 51524
Fluid viscosity	10/500 mm ² /s
Fluid temperature	-25°C/75°C
Enviroment temperature	-25°C/60°C
Weight with one solenoid	0,12 Kg
Weight with two solenoid	0,15kg

ORDERING DETAILS: SEPARATE ELEMENTS

SH* *- 030 - LS** - ** -396 - * ** N

*	VERRIDE TYPE
N	Standard
P	Push
V	Screw

*	SECTION TYPE
E	Solenoid operated
L	Solenoid operated plus lever operated
M	Lever operated

**	ACTUATION TYPE
ON	On/Off
SS	Soft shift

**	SPOOL TYPE
...	See table n°1

*	COILS VOLTAGE
	no coils
A	12 V DC
B	24 V DC

**	COILS TYPE
	no coils
HR	Hirschmann (ISO 4400 DIN 43650)
DT	Deutshc (DT04-2P)
AJ	Amp Junior (AJ type)

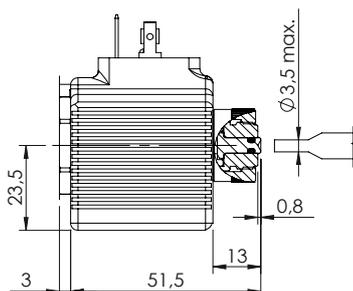
QUICK CODE	
DESCRIPTION	CODE
SHNE-030-LSON-74-396	
SHNE-030-LSON-75-396	

HYDRAULIC SYMBOLS

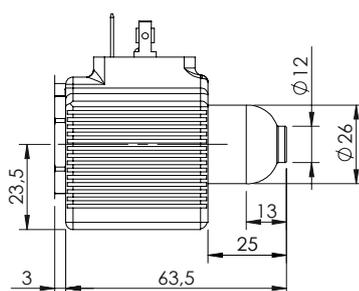
Table n°1

SPOOL CODE	HYDRAULIC SCHEME	TRANSITORY POSITION
74		
75		
SPOOL CODE	HYDRAULIC SCHEME	TRANSITORY POSITION
a	b	a
		b

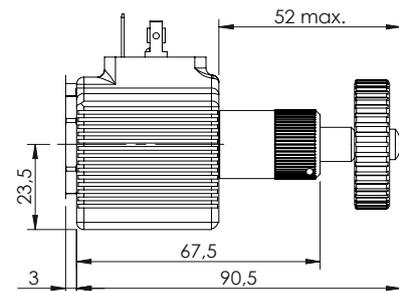
VERRIDE TYPE



VERRIDE TYPE "N"



VERRIDE TYPE "P"

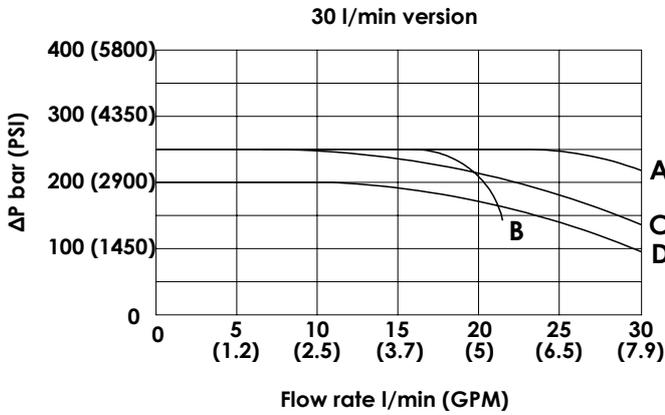


VERRIDE TYPE "V"

SHNE-030-LSON

30 L/MIN SOLENOID VALVE

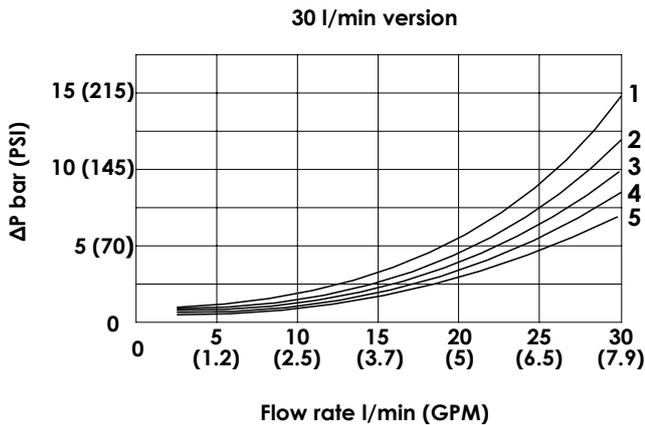
PERFORMANCE LIMITS CURVES - STANDARD SECTION



Spool type	Performance limits curve
74	A
75	A
	B
	A
	A
	A
	C
	D

The tests are carried out with hot solenoids, powered with 90 % of nominal voltage, with 50 °C fluid temperature. The fluid used is mineral oil having a viscosity of 46 mm² / s @ 40 °C. The values in the diagram refer to tests carried out with flow simultaneously in both directions (P > A, B > T). In cases of schemes 4/2 or 4/3 used with the flow in one direction only the performance can change.

PRESSURE DROP CURVES - STANDARD SECTION



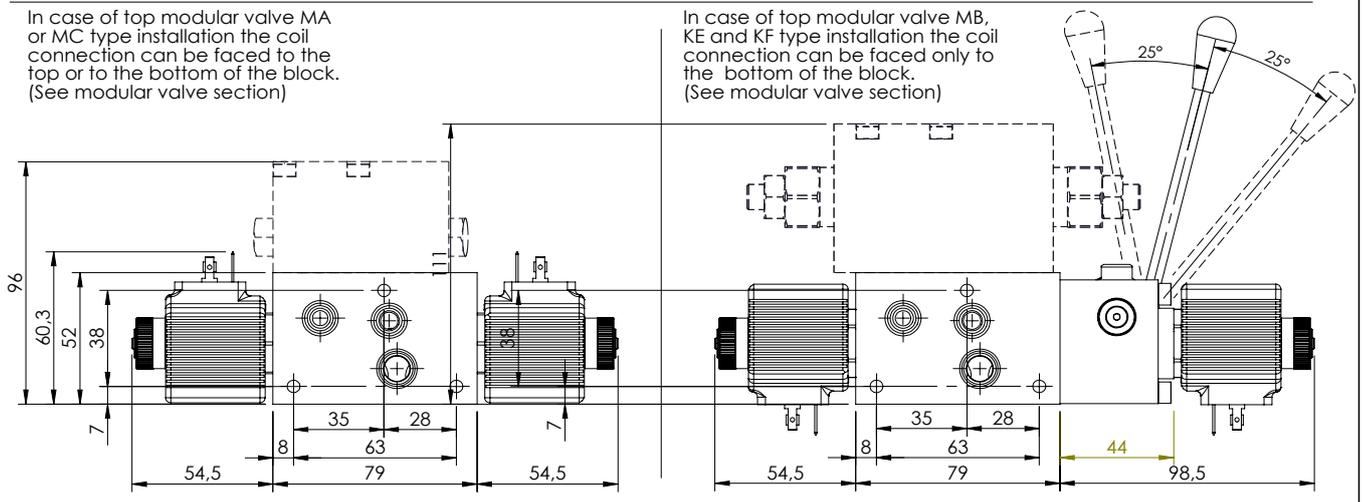
Spool type	Pressure drop curve				
	P>A	P>B	A>T	B>T	P>T
74	3	3	4	4	/
75	3	3	5	5	/
	2	2	1	1	2
	/	3	4	/	/
	/	3	5	/	/
	2	/	/	1	/
	/	3	4	/	/
	/	2	3	/	/

The diagram shows the performance limit curve of standard section. The fluid used is mineral oil viscosity 46 mm²/s at 40 °C ; the tests are performed at a 40 °C temperature

OVERALL DIMENSION - STANDARD SECTION

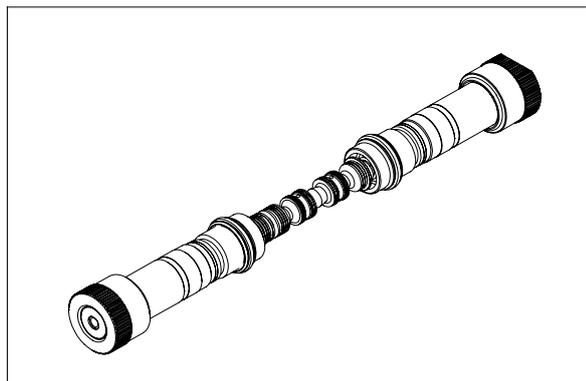
In case of top modular valve MA or MC type installation the coil connection can be faced to the top or to the bottom of the block. (See modular valve section)

In case of top modular valve MB, KE and KF type installation the coil connection can be faced only to the bottom of the block. (See modular valve section)



SHNE-060-LSON

60 L/MIN
SOLENOID VALVE



This spool group is rated for 60 lpm and for a maximum pressure of 320 bar; the spool is actuated by on off tubes and can be ordered with different hydraulic schemes. Each spools is interchangeable to give maximum flexibility and can be fit in all monoblock sections, changing spools require adequate training. The group is made by two tubes, one spool, two springs and mounting components.

TECHNICAL DATA

Max pressure	320 bar
Rated flow	60 l/min
Max excitation frequency	3 Hz
Duty cycle	100 % ED
Hydraulic fluid	Mineral oil DIN 51524
Fluid viscosity	10/500 mm ² /s
Fluid temperature	-25°C/75°C
Enviroment temperature	-25°C/60°C
Weight with one solenoid	0,2 Kg
Weight with two solenoid	0,4 kg

ORDERING DETAILS: SEPARATE ELEMENTS

SH** - 060 - LS** - ** - 396 - ** * N

*	VERRIDE TYPE
N	Standard
P	Push
V	Screw

*	SECTION TYPE
E	Solenoid operated
L	Solenoid operated plus lever operated
M	Lever operated

**	ACTUATION TYPE
ON	On/Off
SS	Soft shift

**	SPOOL TYPE
...	See table n°1

**	COILS VOLTAGE
	no coils
A	12 V DC
B	24 V DC

**	COILS TYPE
	no coils
HR	Hirschmann (ISO 4400 DIN 43650)
DT	Deutshc (DT04-2P)
AJ	Amp Junior (AJ type)

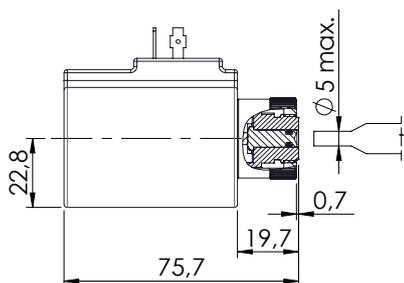
QUICK CODE	
DESCRIPTION	CODE
SHNE-060-LSON-74-396	
SHNE-060-LSON-75-396	

HYDRAULIC SYMBOLS

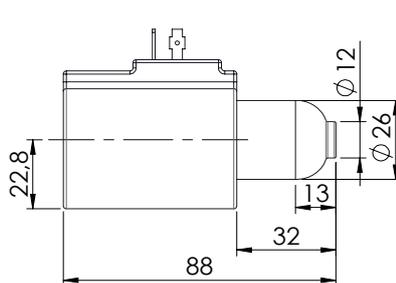
Table n°1

SPOOL CODE	HYDRAULIC SCHEME	TRANSITORY POSITION
74		
75		
SPOOL CODE	HYDRAULIC SCHEME	TRANSITORY POSITION
a b	a b	a b

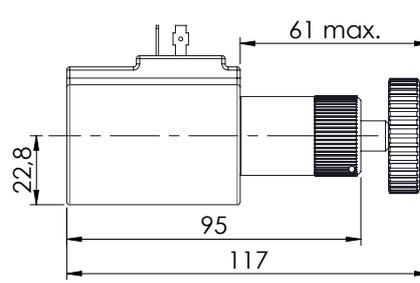
VERRIDE TYPE



VERRIDE TYPE "N"

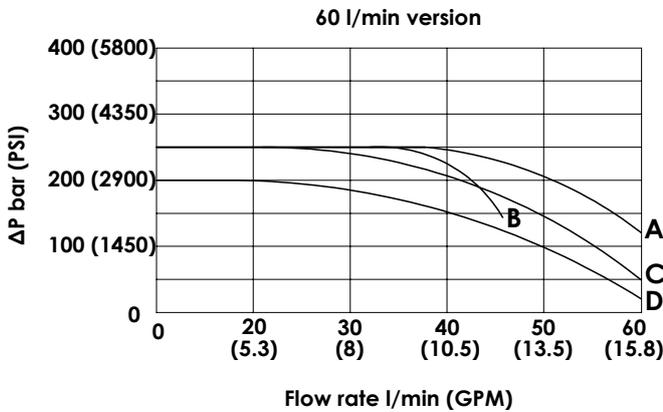


VERRIDE TYPE "P"



VERRIDE TYPE "V"

PERFORMANCE LIMIT CURVES - STANDARD SECTION



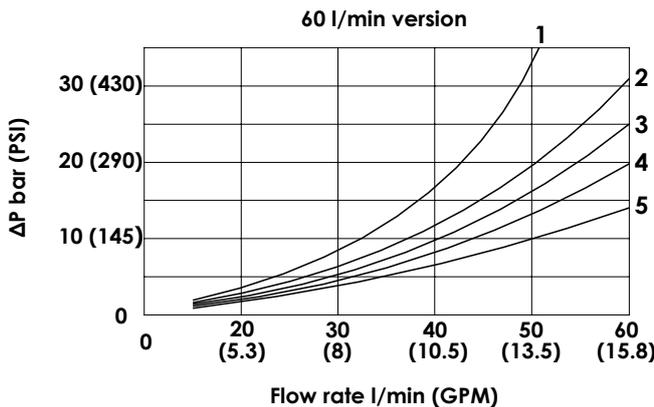
Spool type	Performance limits curve
74	A
75	A
	B
	A
	A
	A
	C
	D

The tests are carried out with hot solenoids , powered with 90 % of nominal voltage , with 50 ° C fluid temperature. The fluid used is mineral oil having a viscosity of 46 mm² / s @ 40 ° C .

The values in the diagram refer to tests carried out with flow simultaneously in both directions (P > A , B > T).

In cases of schemes 4/2 or 4/3 used with the flow in one direction only the performance can change.

PRESSURE DROP CURVES - STANDARD SECTION



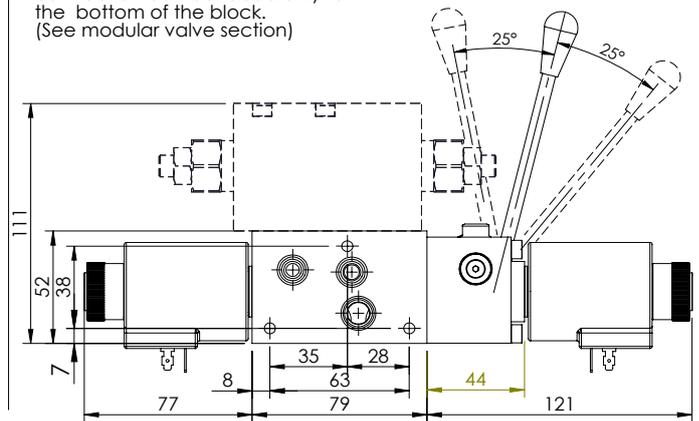
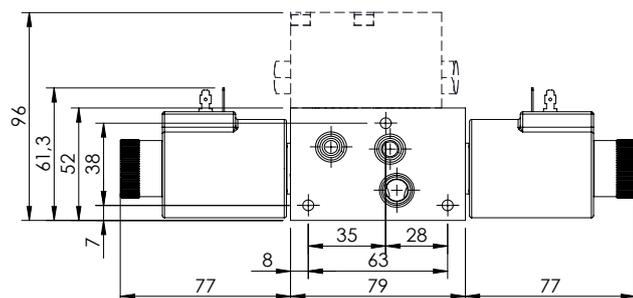
Spool type	Pressure drop curve				
	P>A	P>B	A>T	B>T	P>T
74	3	3	4	4	/
75	3	3	5	5	/
	2	2	1	1	2
	/	3	4	/	/
	/	3	5	/	/
	2	/	/	1	/
	/	3	4	/	/
	/	2	3	/	/

The diagram shows the performance limit curve of standard section. The fluid used is mineral oil viscosity 46 mm²/s at 40 ° C ; the tests are performed at a 40 ° C temperature

OVERALL DIMENSION - STANDARD SECTION

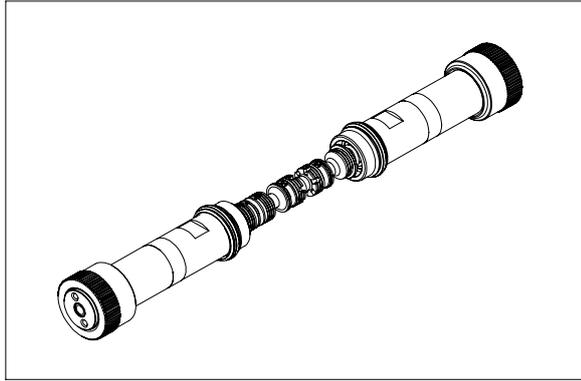
In case of top modular valve MA or MC type installation the coil connection can be faced to the top or to the bottom of the block. (See modular valve section)

In case of top modular valve MB, KE and KF type installation the coil connection can be faced only to the bottom of the block. (See modular valve section)



SHNE-050-LSPR

50 L/MIN
PROPORTIONAL
SOLENOID VALVE



This spool group is rated for 50 lpm and for a maximum pressure of 320 bar; the spool is actuated by proportional tubes and can be ordered with different hydraulic schemes. Each spools is interchangeable to give maximum flexibility and can be fit in all monoblock sections, changing spools require adequate training. The group is made by two tubes, one spool, two springs and mounting components.

TECHNICAL DATA

Max pressure	320 bar
Rated flow	50 l/min
Max excitation frequency	3 Hz
Duty cycle	100 % ED
Max current	1.76A (12 V dc) 0.88A (24 V dc)
Hydraulic fluid	Mineral oil DIN 51524
Fluid viscosity	10/500 mm ² /s
Fluid temperature	-25°C/75°C
Environment temperature	-25°C/60°C
Weight with one solenoid	0,5 Kg
Weight with two solenoid	0,7 kg

ORDERING DETAILS: SEPARATE ELEMENTS

SH** - 0** - LSPR - ** - 396 - ***N

*	VERRIDE TYPE
N	Standard
P	Push
V	Screw

*	SECTION TYPE
E	Solenoid operated
L	Solenoid operated plus lever operated
M	Lever operated

**	SPOOL FLOW
20	20 l/min at 12 bar - 10 l/min at 6 bar
35	35 l/min at 12 bar - 20 l/min at 6 bar
50	50 l/min at 12 bar - 30 l/min at 6 bar

**	ROPORTIONAL TYPE
...	See table n°1

*	COILS VOLTAGE
	no coils
A	12 V DC
B	24 V DC

**	COILS TYPE
	no coils
HR	Hirschmann (ISO 4400 DIN 43650)
DT	Deutshc (DT04-2P)
AJ	Amp Junior (AJ type)

QUICK CODE	
DESCRIPTION	CODE
SHNE-030-LSPR-77-396	
SHNE-030-LSPR-78-396	

TECHNICAL FEATURES

Proportionl type	Spool flow	Rated flow with 12 bar ΔP	Maximum flow	Max. operating pressure
All	20	15	20	320
All	35	30	35	320
All	50	45	50	320

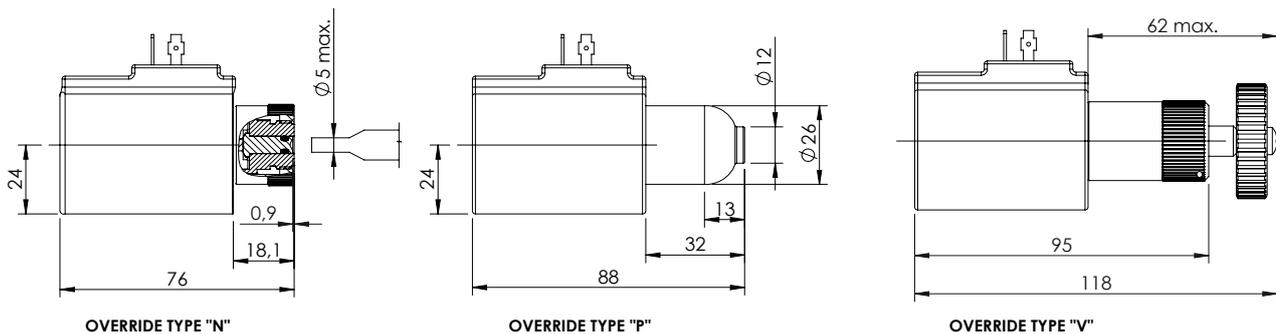
Proportionl type	Spool flow	Rated flow with 6 bar ΔP	Maximum flow	Max. operating pressure
All	20	10	15	320
All	35	20	25	320
All	50	30	35	320

HYDRAULIC SYMBOLS

Table n°1

SPOOL CODE	HYDRAULIC SCHEME	TRANSITORY POSITION
77		
78		

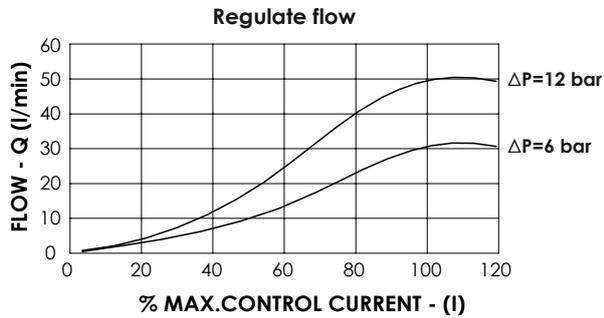
VERRIDE TYPE



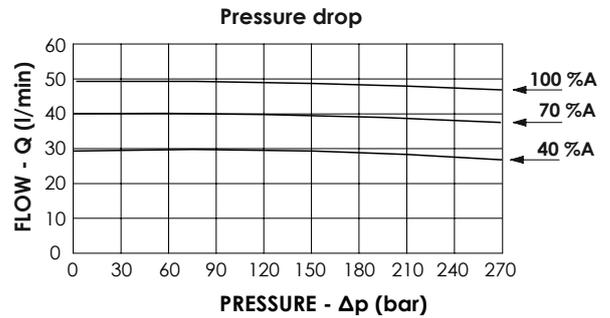
SHNE-050-LSPR

50 L/MIN
PROPORTIONAL
SOLENOID VALVE

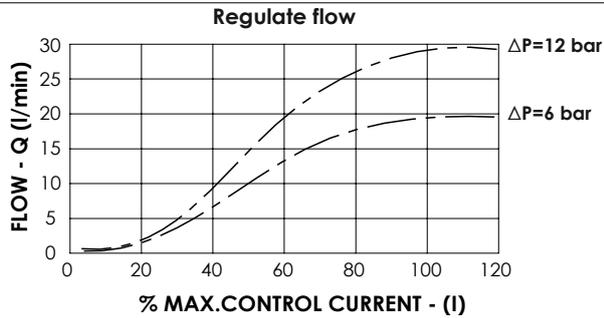
FLOW DIAGRAM - 050



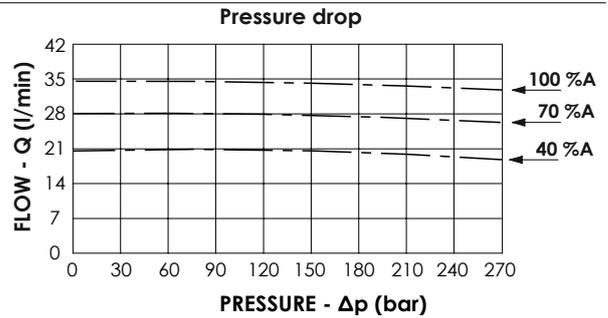
COMPESATION DIAGRAM - 050



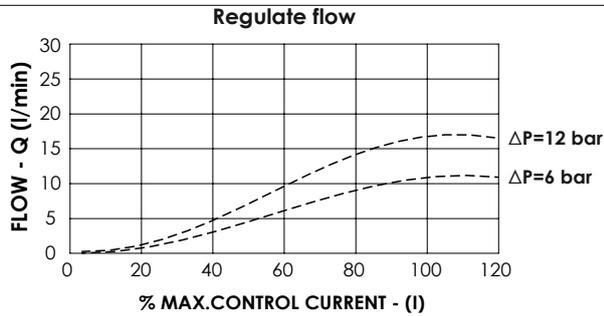
FLOW DIAGRAM - 035



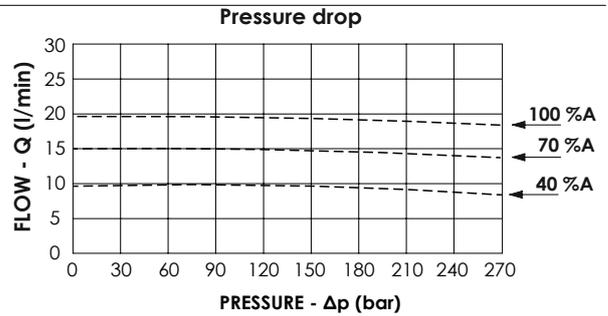
COMPENSATION DIAGRAM - 035



FLOW DIAGRAM - 020



COMPENSATION DIAGRAM - 020



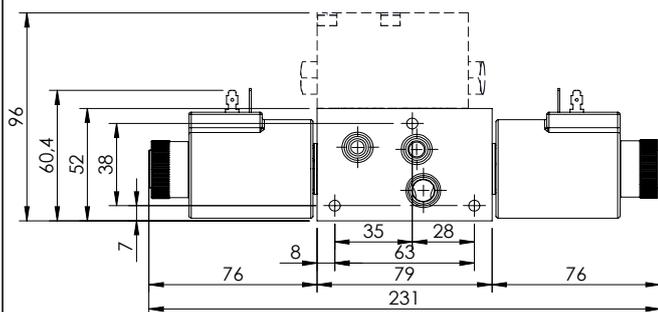
Spool type:

- 10 -----
- 20 -----
- 30 -----

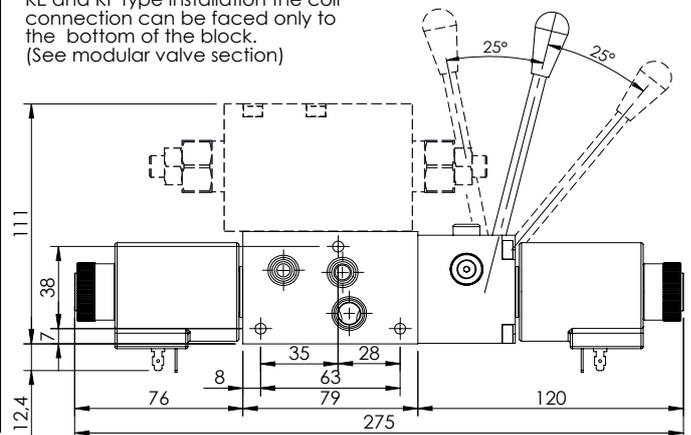
In the diagram shows the performance limits curves of standard section. The fluid used is mineral oil viscosity 46 mm²/s at 40 °C ; the tests were performed at a 40 °C temperature

OVERALL DIMENSION - STANDARD SECTION

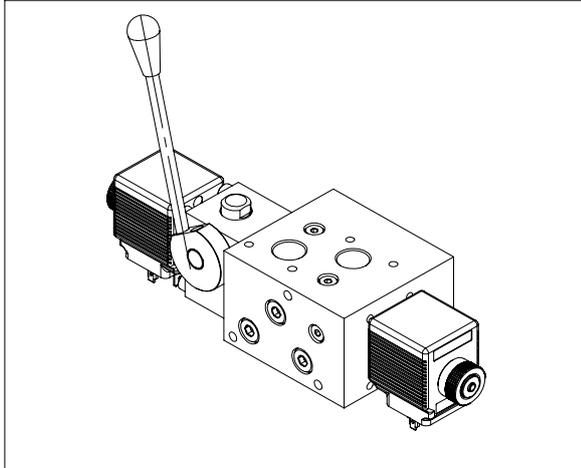
In case of top modular valve MA or MC type installation the coil connection can be faced to the top or to the bottom of the block. (See modular valve section)



In case of top modular valve MB, KE and KF type installation the coil connection can be faced only to the bottom of the block. (See modular valve section)



MANUAL LEVER



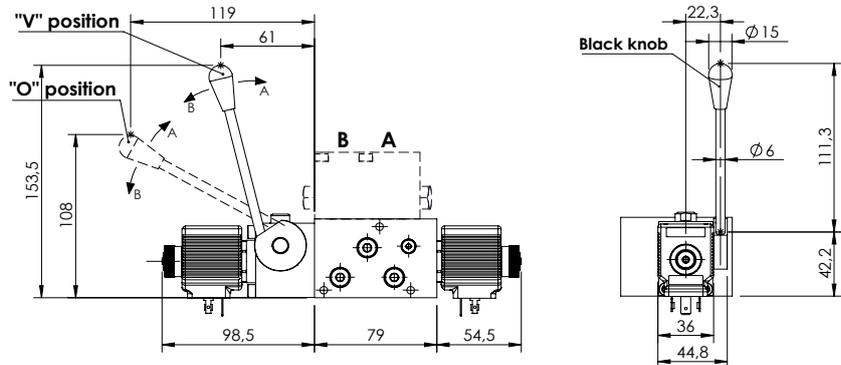
The lever option allow to operate manually the spool and can be ordered for all hydraulic schemes; in the standard version it is installed between monoblock and B port side coil. The lever is normally installed on the monoblock port side but can be installed also rotated of 180°; in each of these two positions the lever can be mounted vertical or horizontal simply removing the lever and reinstalling. The lever is not engaged during solenoid operation and doesn't move when a coil is energized.

TECHNICAL DATA

Max pressure	210/320 bar
Max pressure in line type	210 bar
Rated flow	30/60 l/min
Insertion	100 % ED
Weight more than standard	2 Kg
Weight more than standard	2,5 kg

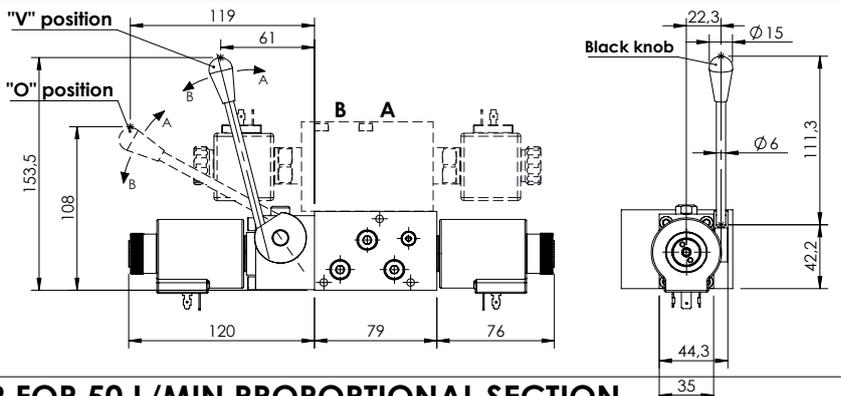
OVERALL DIMENSIONS/ LEVER FOR 30 L/MIN SECTION

The lever option is designed to activate the spool manually, when the lever is pulled the flow is delivered from the port close to the lever, when it is pushed the flow is delivered from the port opposite to the lever. The standard operation deliver full flow, in case of override operation it is possible to reduce the maximum stroke and consequently the speed, for this option contact AFT sales network. The lever can be easily positioned vertical or horizontal by unscrewing it from the rotating shaft.



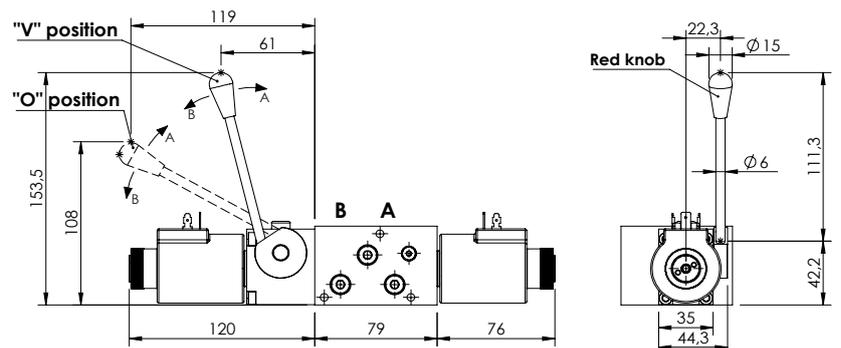
OVERALL DIMENSIONS/ LEVER FOR 60 L/MIN SECTION

The lever option is designed to activate the spool manually, when the lever is pulled the flow is delivered from the port close to the lever, when it is pushed the flow is delivered from the port opposite to the lever. The standard operation deliver full flow, in case of override operation it is possible to reduce the maximum stroke and consequently the speed, for this option contact AFT sales network. The lever can be easily positioned vertical or horizontal by unscrewing it from the rotating shaft.

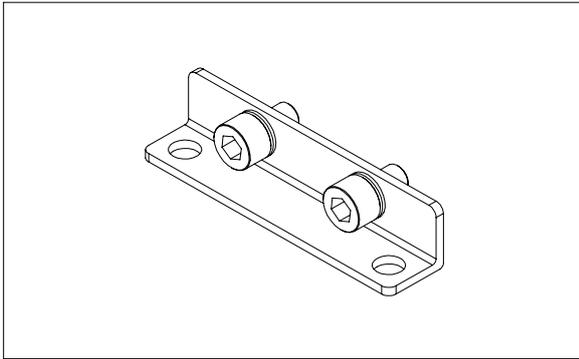


OVERALL DIMENSION/ LEVER FOR 50 L/MIN PROPORTIONAL SECTION

The lever option is designed to activate the spool manually, when the lever is pulled the flow is delivered from the port close to the lever, when it is pushed the flow is delivered from the port opposite to the lever. The standard operation deliver full flow, in case of override operation it is possible to reduce the maximum stroke and consequently the speed, for this option contact AFT sales network. The lever can be easily positioned vertical or horizontal by unscrewing it from the rotating shaft.



MOUNTING SCREW

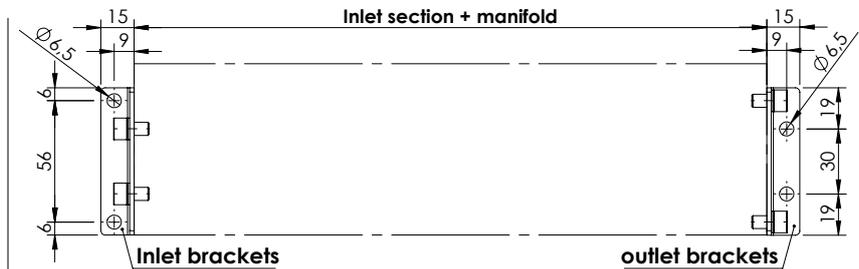
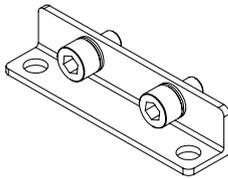


These parts are used to mount the directional valve on the application or to install modular valves and inlet section on the monoblock.

TECHNICAL DATA

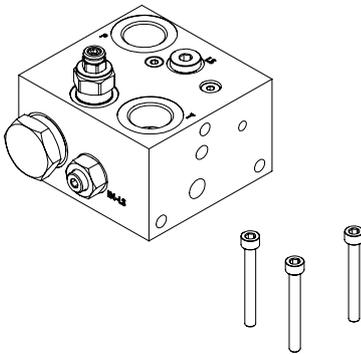
Screw type	ISO 4762
Thread type	coarse thread
Standard screw	resistance class 8.8
High resistance screw	resistance class 12.9
Standard screw treatment	zinc-plated (white)
High res. screw treatment	Anodized (black)

MOUNTING BRACKETS



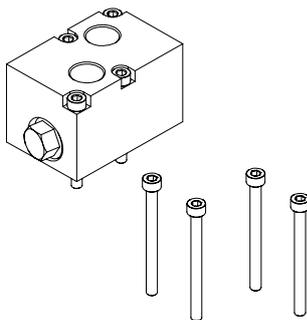
Mounting brackets	Screw length (mm)	Reference	Tightening Torque
PV000371	M6x10	AV000015 + PR000129	6 - 7 N/m

MOUNTING INLET SECTION



Inlet section	Screw length (mm)	Reference	Tightening Torque
SF000011	M6x80	AV000073	6 - 7 N/m
SF000019	M6x80	AV000073	6 - 7 N/m
SF000042	M6x75	PE000418	6 - 7 N/m
SF000045	M6x75	PE000418	6 - 7 N/m

FIXING STACKING MODULES



Flangiabile valve	Screw length (mm)	Reference	Tightening Torque
MP	M5x16	AV000035	3 - 4 N/m
MA, MC and MB	M5x45	PE000148	3 - 4 N/m
KE and MF	M5x60	AV000016	3 - 4 N/m