



**ATLANTIC**  
Fluid Tech

## **SECTION 20**

Applications

# APPLICATIONS

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20. 1	<a href="#">Excavators - Mini excavators</a>	20.01. <b>000</b>
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## SECTION 20. 1

## APPLICATIONS - EXCAVATORS



Hydraulic scheme	Valve description	Valve type	Rated flow l/min (gpm)	Max. pressure bar (psi)	Installation	Main port size or cavity type	Page
	MLST-160-RLGR	Right version with oil recovery	160 (42)	420 (6000)	In line	G 3/4"	20.01.010
	MLST-250-RAUR	Right version	250 (66)	420 (6000)	Flanged	3/4" SAE 6000	20.01.020
	MLST-250-RAUL	Left version	250 (66)	420 (6000)	Flanged	3/4" SAE 6000	20.01.030
	BDEN-010-ALRV	Quick hitch	10 (3)	380 (5500)	In line	1/4" Jis	20.01.040
	BDEN-010-ALRU	Quick hitch	10 (3)	350 (5000)	In line	G 1/4"	20.01.050
	BDTF-100-ALLC	Excavator attachment function	100 (26)	350 (5000)	Flanged	G 1/2"	20.01.060
	BDTF-200-AFLC	Excavator attachment function	200 (53)	350 (5000)	Flanged	3/4" SAE 6000	20.01.070
	BDTF-300-AFLC	Excavator attachment function	300 (79)	350 (5000)	Flanged	1" SAE 6000	20.01.080
	MDRC-200-SLVN	Selector valve	200 (53)	500 (7200)	Flanged	3/4" SAE 6000	20.01.090
	BPTD-060-ALOU	Flow regulated with relief valve	60 (16)	350 (5000)	In line	G 1/2"	20.01.100

APPLICATIONS - EXCAVATORS

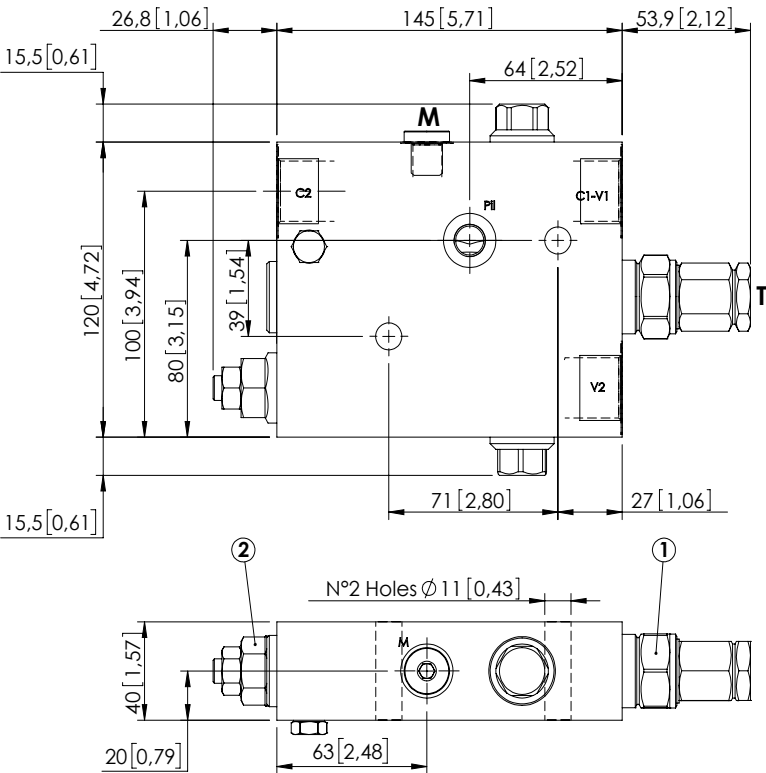


Hydraulic scheme	Valve description	Valve type	Rated flow l/min (gpm)	Max. pressure bar (psi)	Installation	Main port size or cavity type	Page
	BDEN-070-AFEJ	Solenoid activated	70 (19)	420 (6000)	Flanged	3/4" SAE 3000/6000	20.01.110
	BDEN-070-AFEJ	Solenoid activated	70 (19)	420 (6000)	Flanged	1" SAE 3000/6000	20.01.120

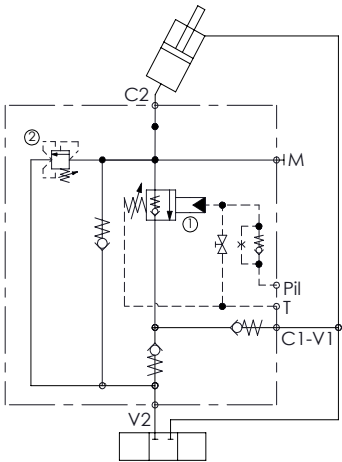
EXCAVATORS VALVE

MLST-160-RLGR

WITH OIL RECOVERY



Dimensions: mm [inches]



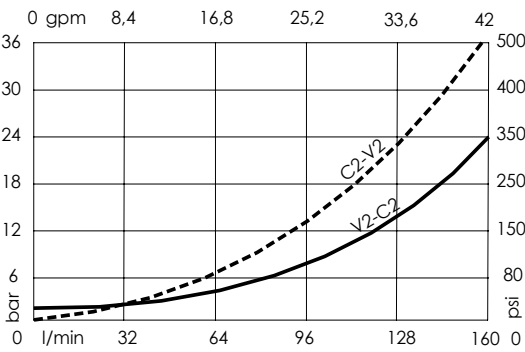
SPECIFICATIONS

Max. operating pressure:	420 bar (6000 psi)
Rated flow:	160 l/min (42 gpm)
Manifold:	Steel
Weight:	5,01 kg (11 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643.  
For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



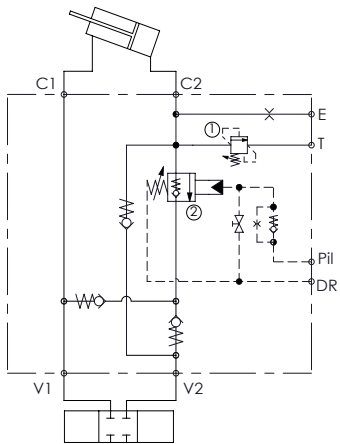
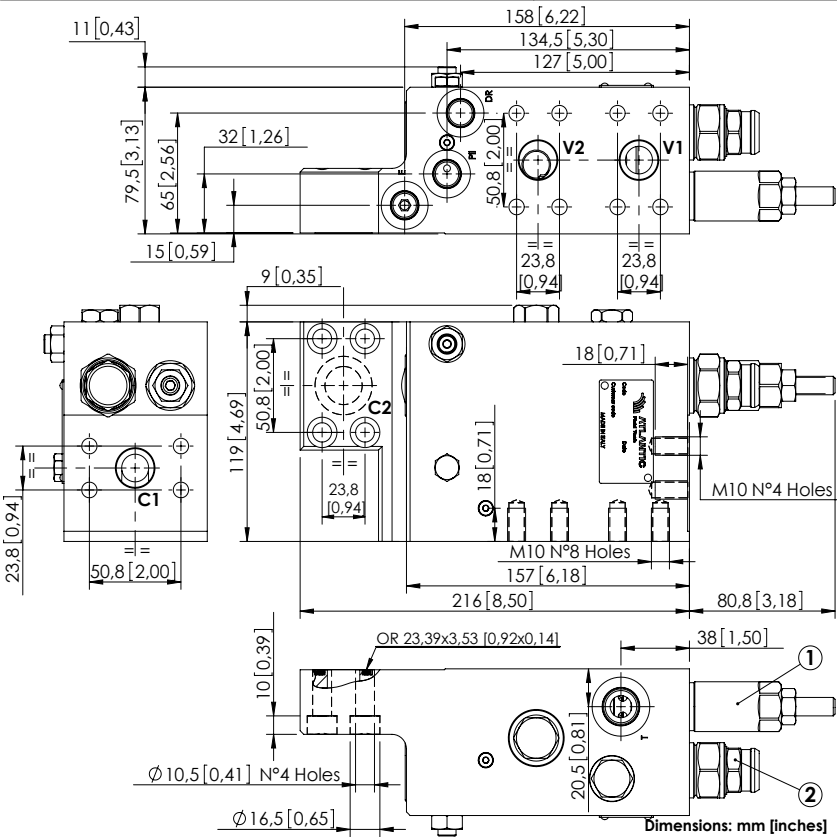
ORDERING CODES

Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase
ML000165	MLST-160-RLGR-00-G34-N420	V2,V2: G 3/4" Pil,T,M: G 1/4"	① 350 bar @ 5 l/min (5000 psi @ 1,3 gpm) ② 7,5 bar C.P. (100 psi)	① 350-400 bar (5000-5800 psi) ② 3-15 bar (50-200 psi)	① 72 bar/turn (1000 psi/turn) ② 8 bar/turn (120 psi/turn)

EXCAVATORS VALVE

# MLLT-250-RAUR

FLANGED TYPE  
3/4" SAE 6000  
WITH OIL RECOVERY



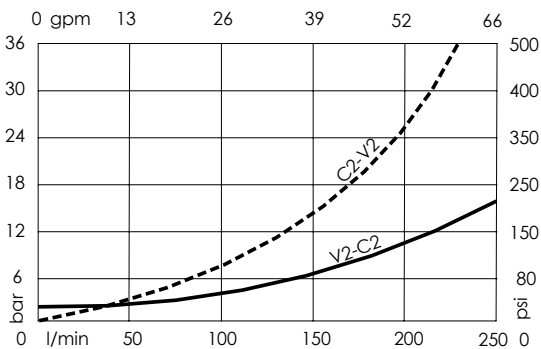
## SPECIFICATIONS

Max. operating pressure:	420 bar (6000 psi)
Rated flow:	250 l/min (66 gpm)
Manifold:	Steel
Weight:	11,7 kg (25,7 lbs)
Contamination class to ISO 4406:	See technical spec.
MTFa:	150 - 1200 years: See technical spec.

## NOTES

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643.  
For other configurations/quick codes not available in this catalogue page please consult factory

## CURVES

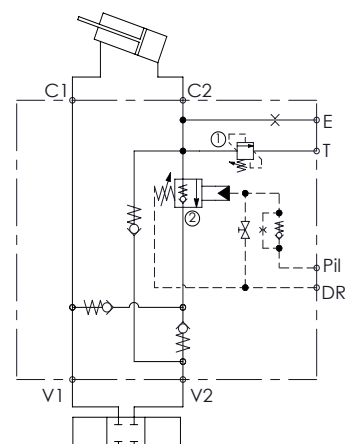


## ORDERING CODES

Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
ML000265	MLLT-250-RAUR-00-S34-N420	V2,V2,C1,C2: 3/4" SAE 6000 E,Pil,Dr: 9/16-18 UNF T: 3/4-16 UNF	① 395 bar @ 5 l/min (5700 psi @ 1,3 gpm) ② 7,9 bar C.P. (120 psi)	① 150-420 bar (2200-6000 psi) ② 3-15 bar (50-200 psi)	① 53 (700) ② 6 (90)

Revision A1

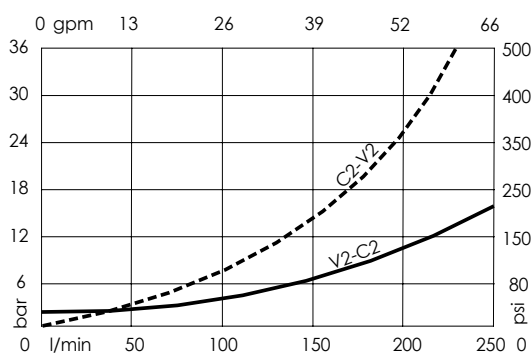
**FLANGED TYPE  
3/4" SAE 6000  
WITH OIL RECOVERY**



<b>Max. operating pressure:</b>	<b>420 bar (6000 psi)</b>
<b>Rated flow:</b>	<b>250 l/min (66 gpm)</b>
<b>Manifold:</b>	<b>Steel</b>
<b>Weight:</b>	<b>11,72 kg (25,7 lbs)</b>
<b>Contamination class to ISO 4406:</b> See technical spec.	
<b>MTTF<sub>d</sub>:</b> 150 - 1200 years: See technical spec.	

**For other configurations/quick codes not available in this catalogue page please consult factory**

## CURVES



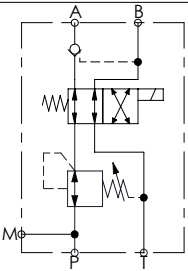
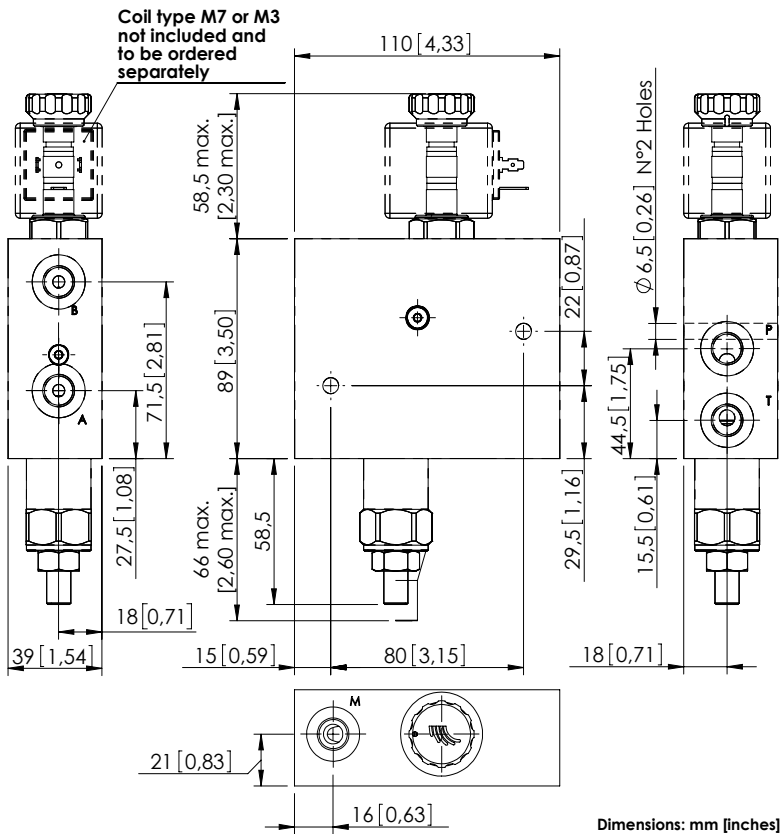
Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
ML000266	MLLT-250-RAUL-00-S34-N420	V2,V2,C1,C2: 3/4" SAE 6000 E,Pil,Dr: 9/16-18 UNF T: 3/4-16 UNF	① 395 bar @ 5 l/min (5700 psi @ 1,3 gpm) ② 7,9 bar C.P. (120 psi)	① 150-420 bar (2200-6000 psi) ② 3-15 bar (50-200 psi)	① 53 (700) ② 6 (90)



EXCAVATORS VALVE

BDEF-010-ALRV

AUXILIARY  
QUICK HITCH



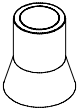
SPECIFICATIONS

Max. operating pressure:	380 bar (5500 psi)
Rated flow:	10 l/min (3 gpm)
Manifold:	Steel
Weight:	3 kg (6,8 lbs)
Coil type:	M7 or M3 type
Contamination class to ISO 4406:	See technical spec.
MTF <sub>a</sub> :	150 - 1200 years: See technical spec.

NOTES

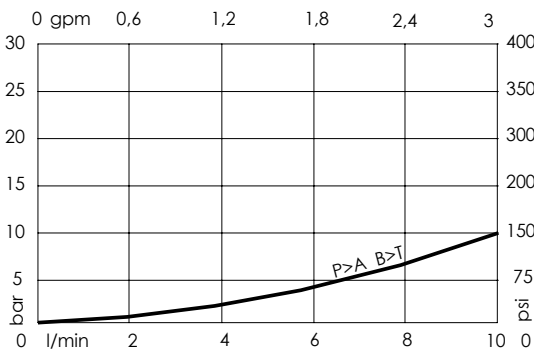
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP



Ordering code:  
AT000022

CURVES



ORDERING CODES

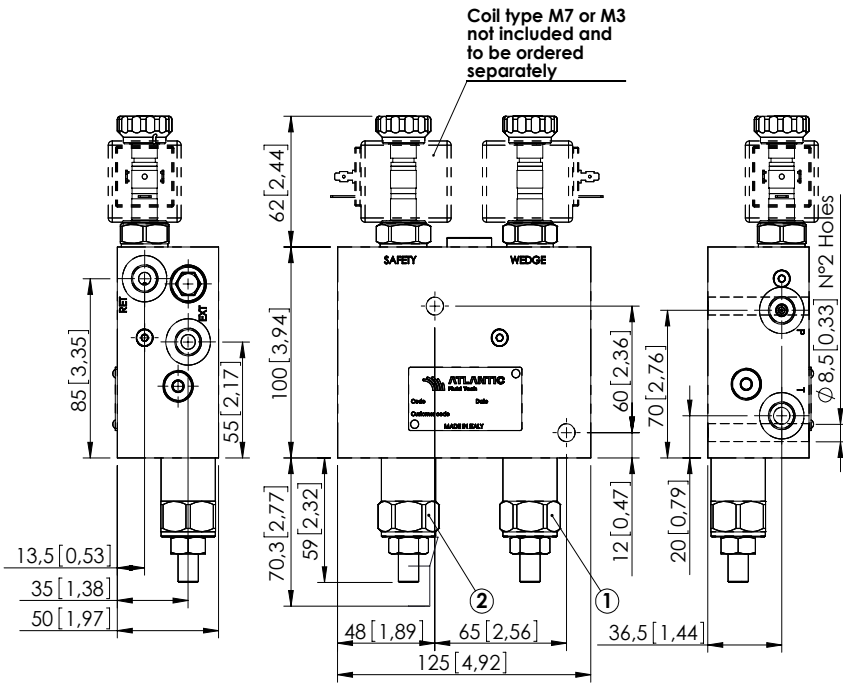
Quick code	Description	Ports	Standard setting Q=5 l/min (1.3 gpm)	Adjustment range	Pressure increase
BD000095	BDEN-010-ALRV-NP-G14-V380	P,T,A,B,M: G 1/4"	340 bar (4900 psi)	70-350 bar (1000-5000 psi)	114 bar/turn (1600 psi/turn)

Revision B

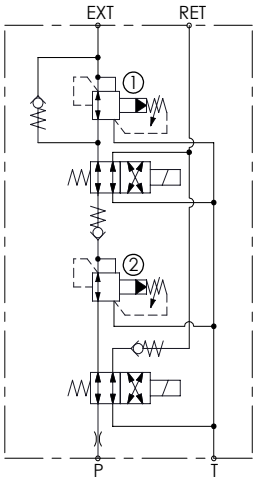
EXCAVATORS VALVE

BDEN-010-ALRU

AUXILIARY  
QUICK HITCH



Dimensions: mm [inches]



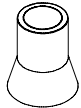
SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	10 l/min (3 gpm)
Manifold:	Steel
Weight:	4,9 kg (10,8 lbs)
Coil type:	M7 or M3 type
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

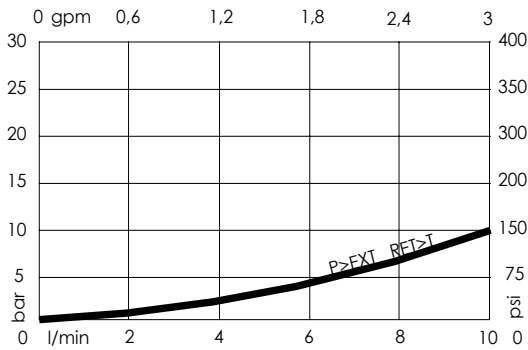
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP



Ordering code:  
AT000022

CURVES



ORDERING CODES

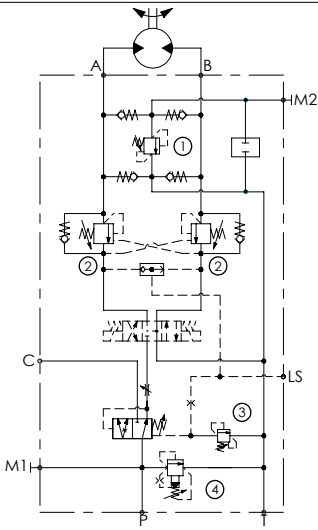
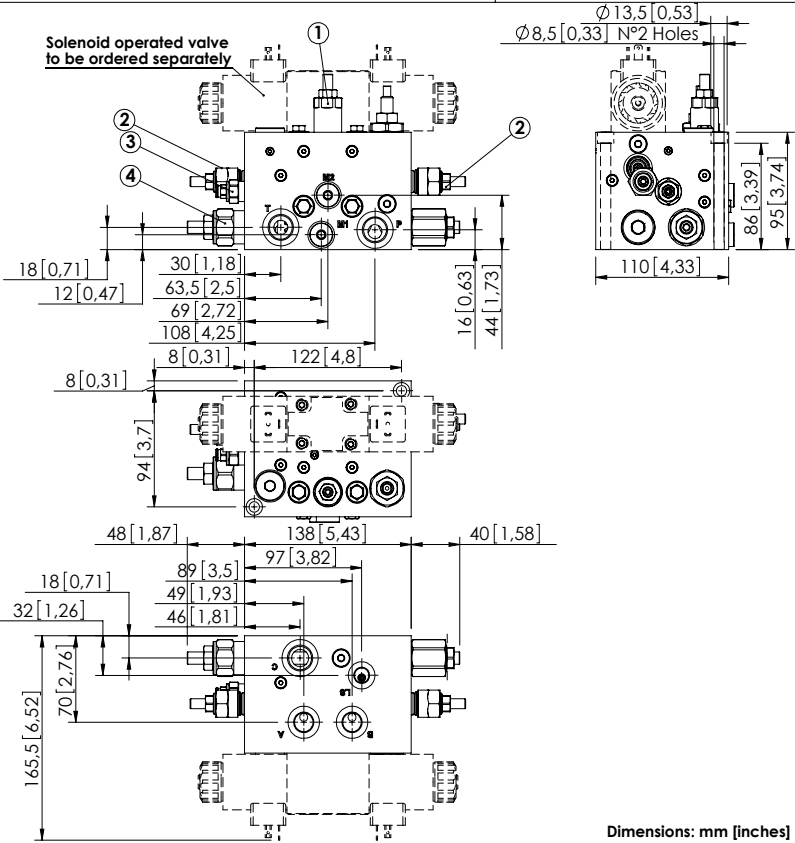
Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase
BD000207	BDEN-010-ALRU-NP-G14-N350	P,T,A,B,M: G 1/4"	①:120 bar (1700 psi) ②:240 bar (3500 psi)	70-350 bar (1000-5000 psi)	114 bar/turn (1600 psi/turn)

Revision A1

EXCAVATORS VALVE

BDTF-100-ALLC

EXCAVATOR ATTACHMENT  
FUNCTION - G 1/2"



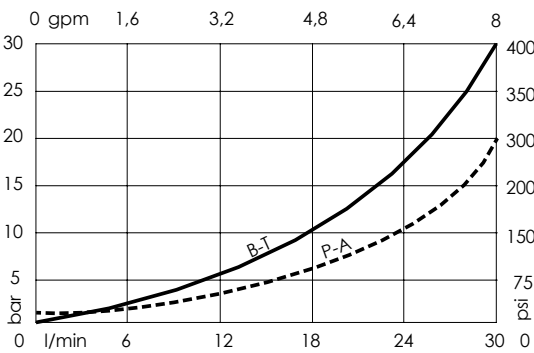
SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Max. rated flow:	100 l/min (26 gpm)
Rated flow in A-B:	30 l/min (8 gpm)
Manifold:	Steel
Weight:	10,96 kg (24,2 lbs)
Contamination class to ISO 4406:	See technical spec.
MTF <sub>a</sub> :	150 - 1200 years: See technical spec.

NOTES

Our spring on the compensator is adjustable from 5 to 15 bar (75-200 psi), the max flow in A and B depend on the Δp curve of the electrical valve.  
For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



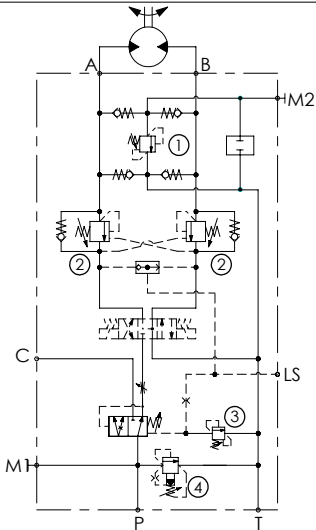
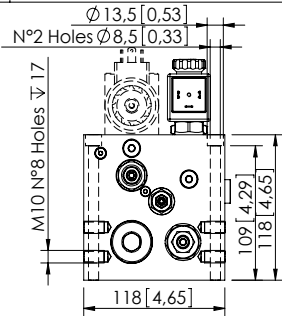
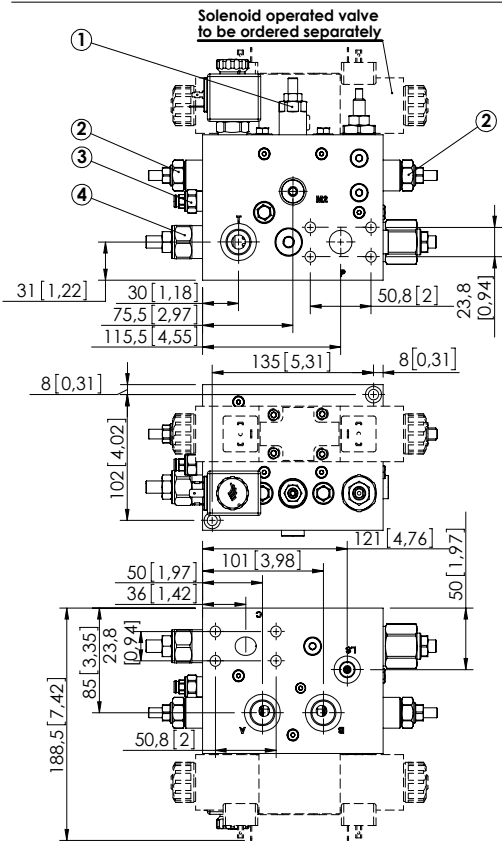
ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min-bar (1,3 gpm-psi)	Adjustment range bar (psi)	Pressure increase bar/turn (psi/turn)
BD000081	BDTF-100-ALLC-04-G12-N350	4:1	P,T,C: G 1/2" A,B: G 3/8" M,LS: G 1/4"	①:220 (3200) ③:200 (2900) ②:260 (3700) ④:250 (3600)	①②:100-350 (1500-5000) ③:120-350 (1700-5000) ④:140-350 (2000-5000)	①:91 (1300) ③:165 (2400) ②:184 (2600) ④:114 (1600)

EXCAVATORS VALVE

BDTF-200-AFLC

EXCAVATOR ATTACHMENT  
FUNCTION - 3/4" SAE 6000



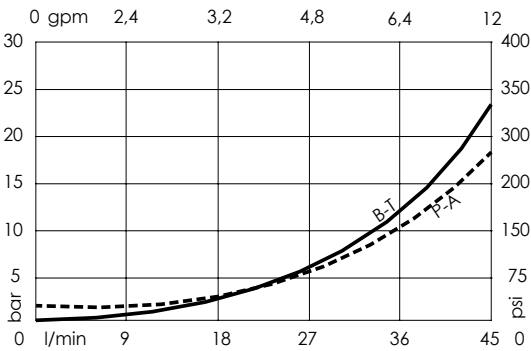
SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Max. rated flow:	200 l/min (53 gpm)
Rated flow in A-B:	45 l/min (12 gpm)
Manifold:	Steel
Weight:	16,02 kg (35,2 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

Our spring on the compensator is adjustable from 5 to 15 bar (75-200 psi), the max flow in A and B depend on the  $\Delta p$  curve of the electrical valve.  
For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



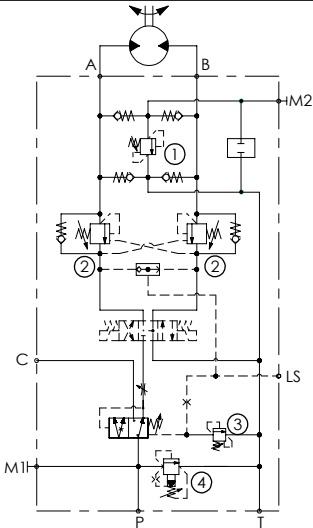
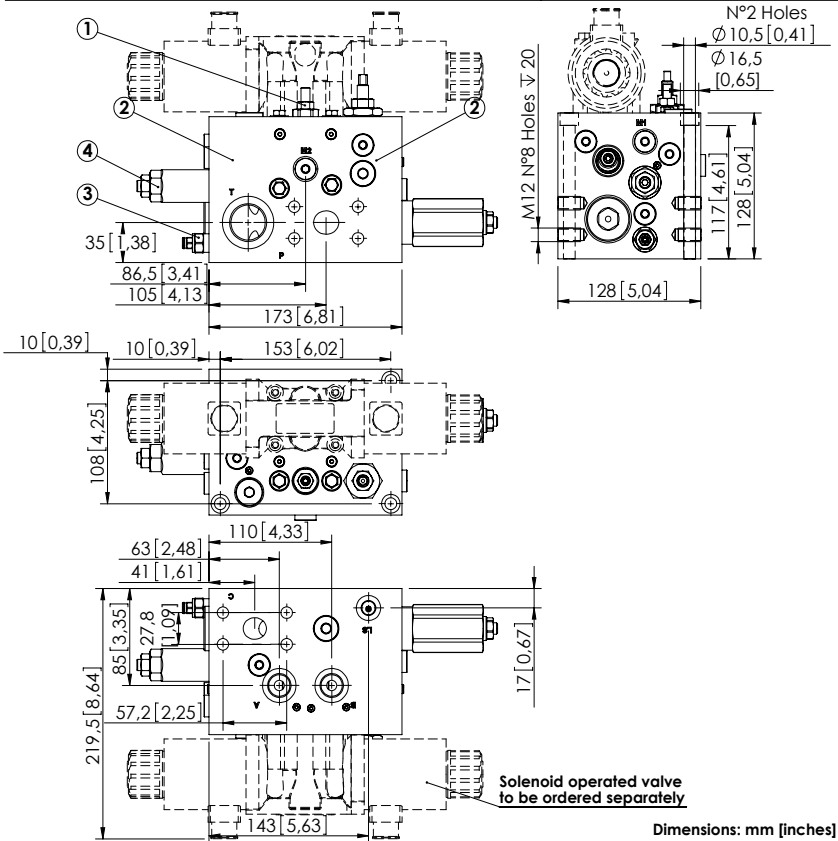
ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min-bar (1,3 gpm-psi)	Adjustment range bar (psi)	Pressure increase bar/turn (psi/turn)
BD000082	BDTF-200-AFLC-04-S34-N350	4:1	P,C: 3/4" SAE 6000 A,B,T: G 3/4" M,LS: G 1/4"	①:220 (3200) ③:200 (2900) ②:260 (3700) ④:250 (3600)	①②:100-350 (1500-5000) ③:120-350 (1700-5000) ④:140-350 (2000-5000)	①:91 (1300) ③:165 (2400) ②:138 (2000) ④:114 (1600)

EXCAVATORS VALVE

BDTF-300-AFLC

EXCAVATOR ATTACHMENT  
FUNCTION - 1" SAE 6000



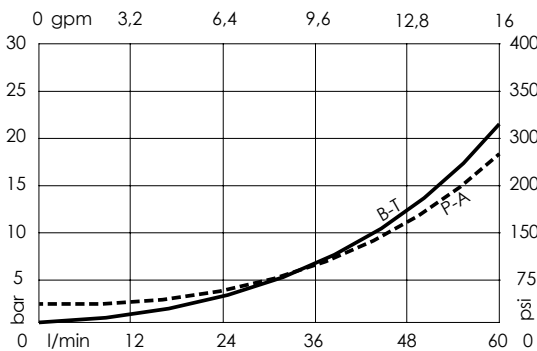
SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Max. rated flow:	300 l/min (79 gpm)
Rated flow in A-B:	60 l/min (16 gpm)
Manifold:	Steel
Weight:	26,75 kg (58,9 lbs)
Contamination class to ISO 4406:	See technical spec.
MTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

Our spring on the compensator is adjustable from 5 to 15 bar (75-200 psi), the max flow in A and B depend on the  $\Delta p$  curve of the electrical valve.  
For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



ORDERING CODES

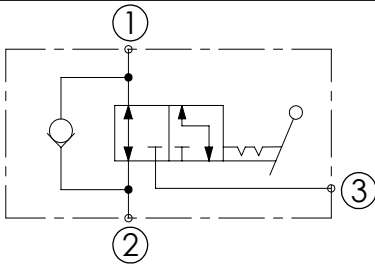
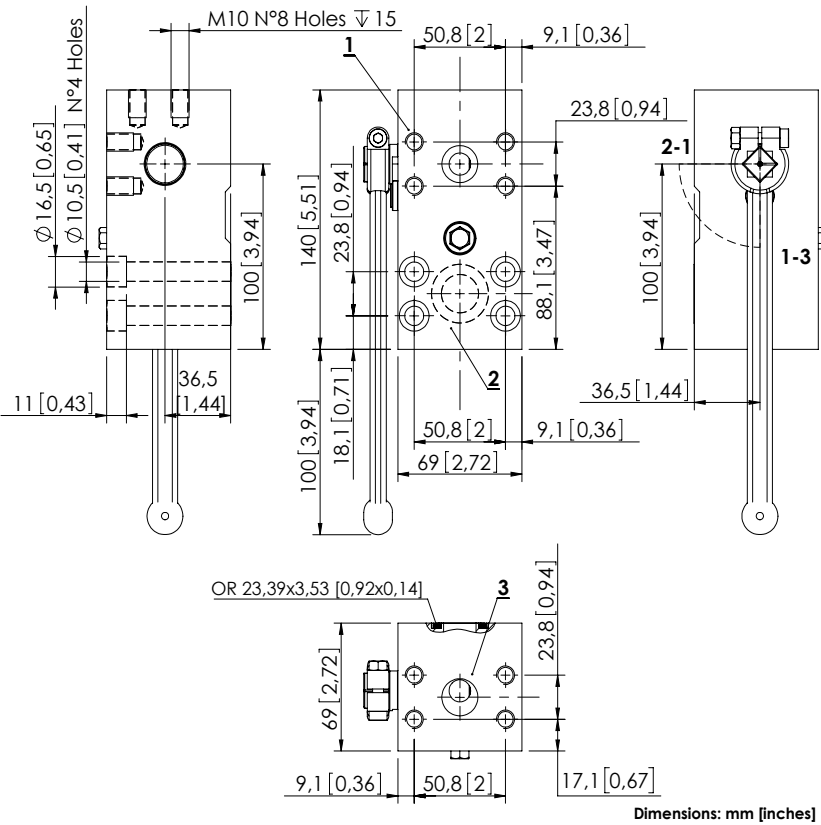
Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min-bar (1,3 gpm-psi)	Adjustment range bar (psi)	Pressure increase bar/turn (psi/turn)
BD000083	BDTF-300-AFLC-04-S01-N350	4:1	P,C: 1" SAE 6000 A,B,T: G 1/2" M,LS: G 1/4"	①:220 (3200) ③:200 (2900) ②:260 (3700) ④:250 (3600)	①②:100-350 (1500-5000) ③:120-350 (1700-5000) ④:140-270 (2000-3900)	①:91 (1300) ③:165 (2400) ②:138 (2000) ④:49 (700)

Revision A1

EXCAVATORS VALVE

MDRC-200-SLVN

AUXILIARY  
SELECTOR VALVE



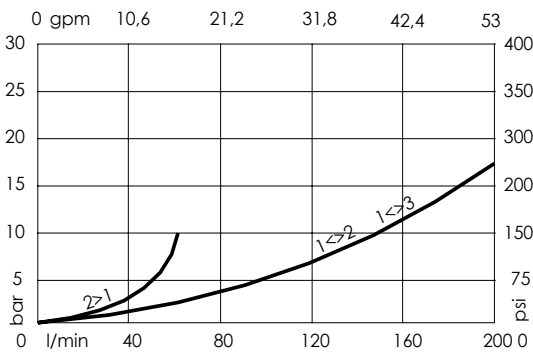
SPECIFICATIONS

Max. operating pressure:	500 bar (7200 psi)
Rated flow:	200 l/min (53 gpm)
Weight:	4,86 kg (10,7 lbs)
Manifold:	Steel
Contamination class to ISO 4406:	See technical spec.
MTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

1 to 2, leakage in 3: 20 cm<sup>3</sup> @ 100 bar (1,22 in<sup>3</sup> @ 1500 psi)  
1 to 3, leakage in 2: 20 cm<sup>3</sup> @ 100 bar (1,22 in<sup>3</sup> @ 1500 psi)  
Oil specification: 46 cSt  
Oil temperature: 35°C (1,66 °F)  
Handle supplied separately, not attached to the block.  
For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



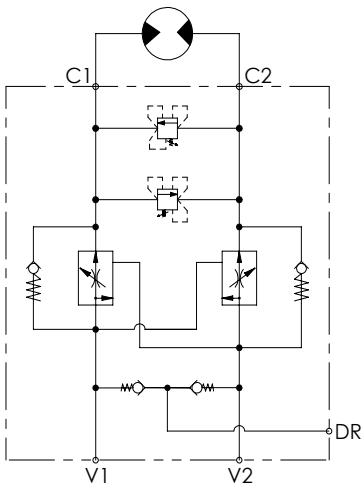
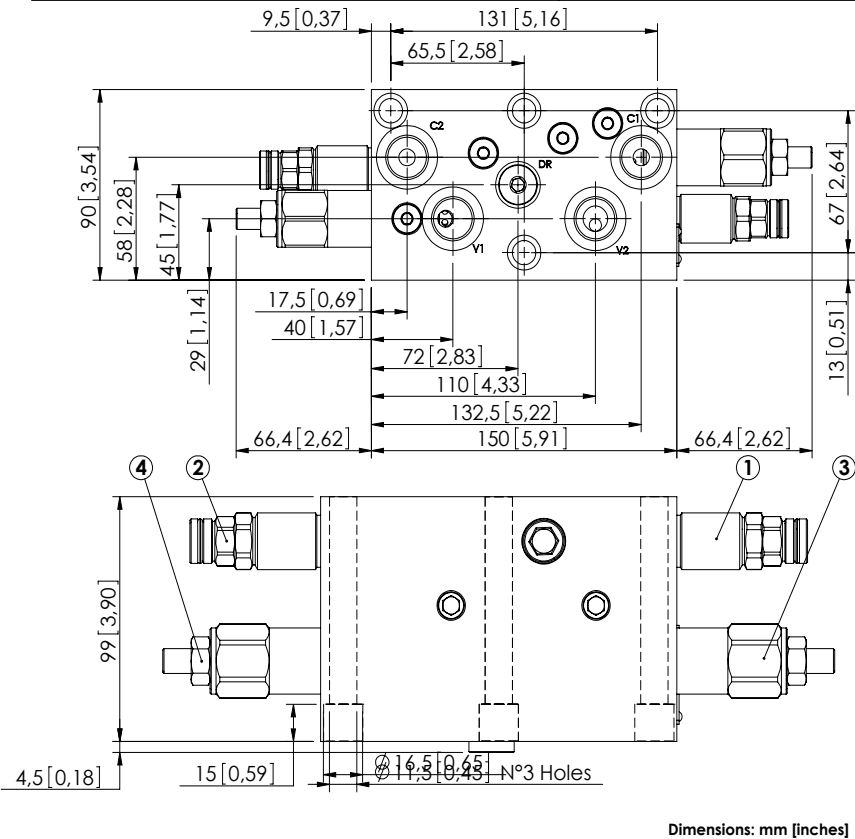
ORDERING CODES

Quick code	Description	Ports
MD000072	MDRC-200-SLVN-NP-S34-N500	1,2,3: 3/4" SAE 6000

EXCAVATORS VALVE

BPTD-060-ALOU

FLOW REGULATOR  
WITH RELIEF VALVE



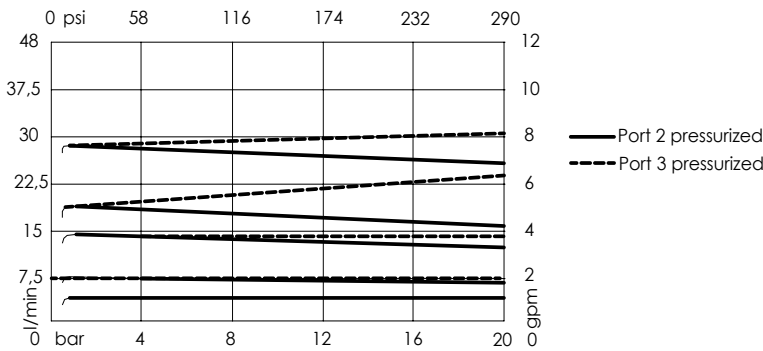
SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	60 l/min (16 gpm)
Regulated flow:	30 l/min (8 gpm)
Manifold:	Steel
Weight:	9,79 kg (21,5 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



ORDERING CODES

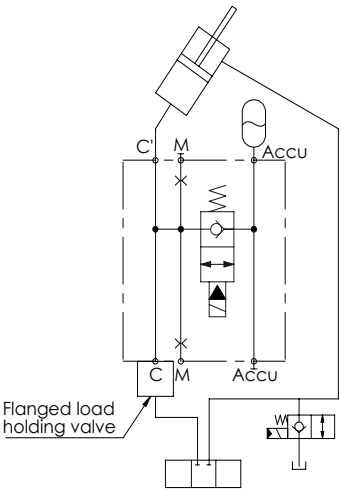
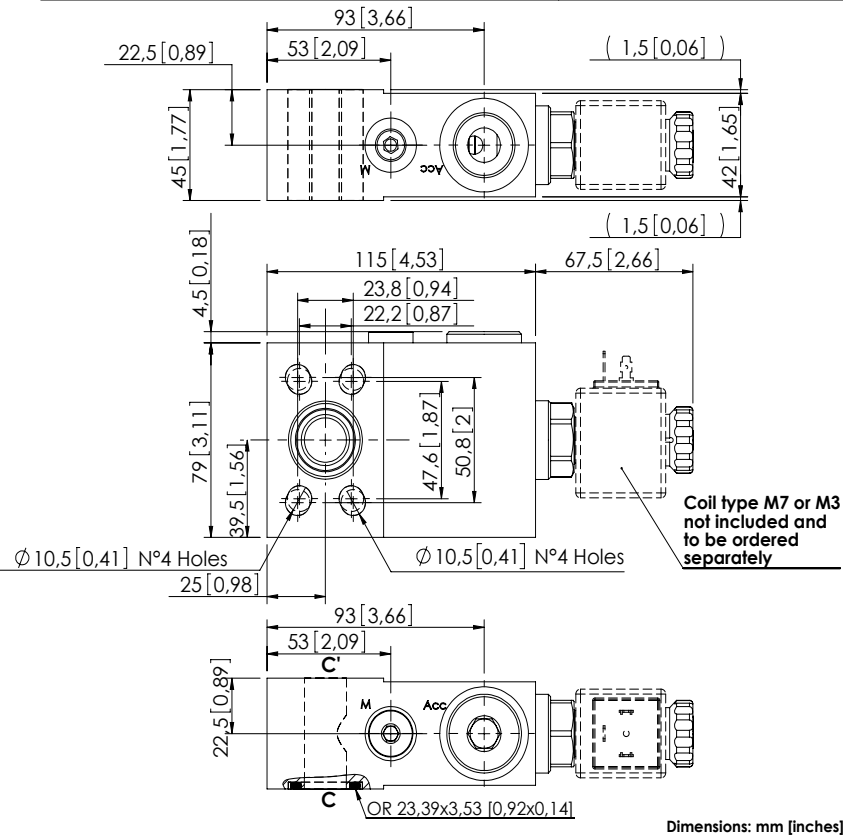
Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase
BP000039	BPTD-060-ALOU-NP-G12-N350	V1,V2,C1,C2: G 1/2" DR: G 1/4"	90 bar (1300 psi)	30-100 bar (400-1500 psi)	20 bar/turn (300 psi/turn)

Revision B1

EXCAVATORS VALVE

BDEN-070-AFEJ

SOLENOID ACTIVATED  
FLANGED



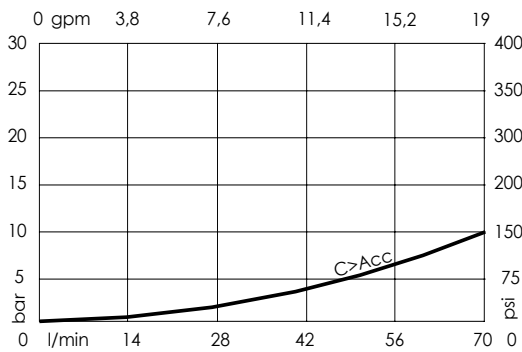
SPECIFICATIONS

Max. operating pressure:	420 bar (6000 psi)
Rated flow:	70 l/min (19 gpm)
Weight:	2,97 kg (6,5 lbs)
Manifold:	Steel
Coil type:	M7 or M3 type
Contamination class to ISO 4406:	See technical spec.
MTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



ORDERING CODES

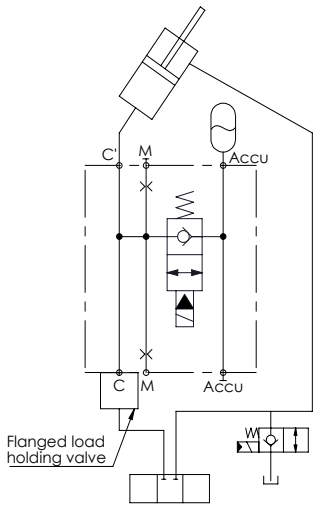
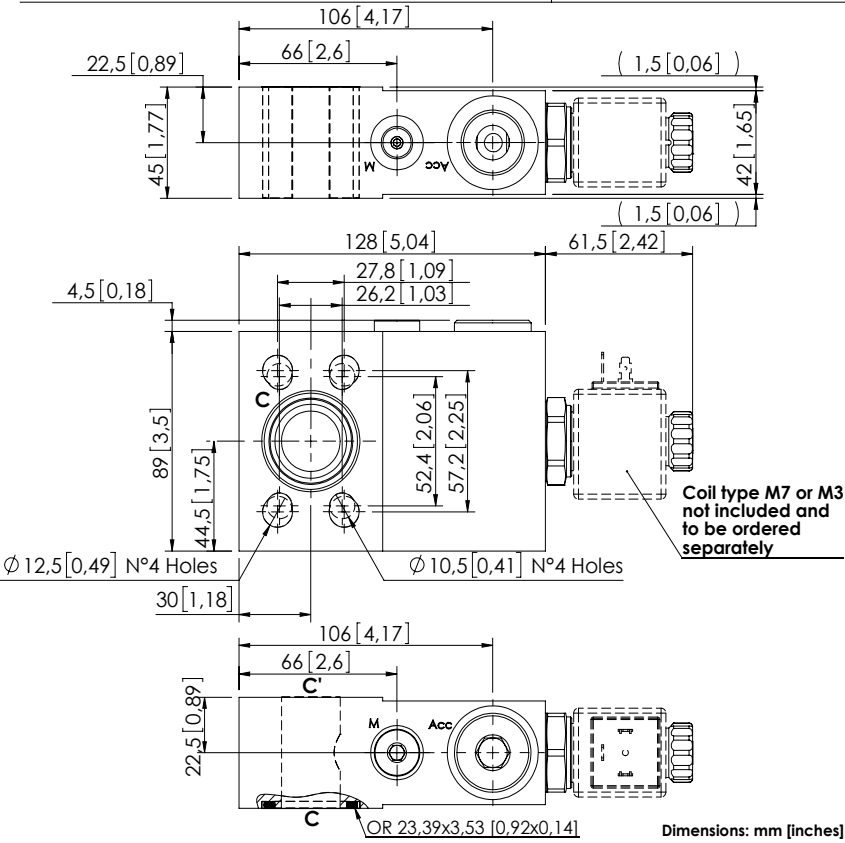
Quick code	Description	Ports
BD000065	BDEN-070-AFEJ-NP-S34-N350	C, C': 3/4" SAE 3000/6000 Acc: G 3/4" M: G 1/4"



EXCAVATORS VALVE

BDEN-070-AFEJ

SOLENOID ACTIVATED  
FLANGED



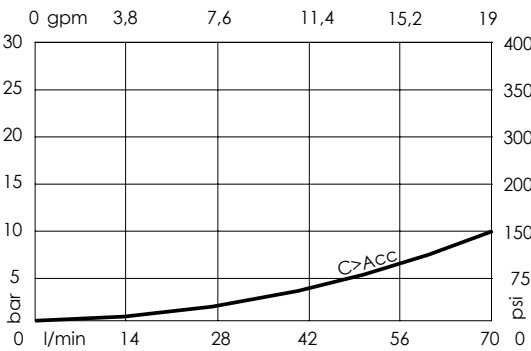
SPECIFICATIONS

Max. operating pressure:	420 bar (6000 psi)
Rated flow:	70 l/min (19 gpm)
Weight:	3,53 kg (7,78 lbs)
Manifold:	Steel
Coil type:	M7 or M3 type
Contamination class to ISO 4406:	See technical spec.
MTTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

For other configurations/quick codes not available in this catalogue page please consult factory

CURVES

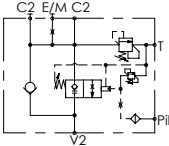


ORDERING CODES

Quick code	Description	Ports
BD000066	BDEN-070-AFEJ-NP-S10-N350	C, C': 1" SAE 3000/6000 Acc: G 3/4" M: G 1/4"

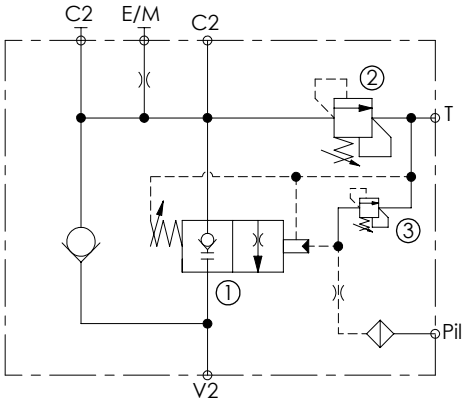
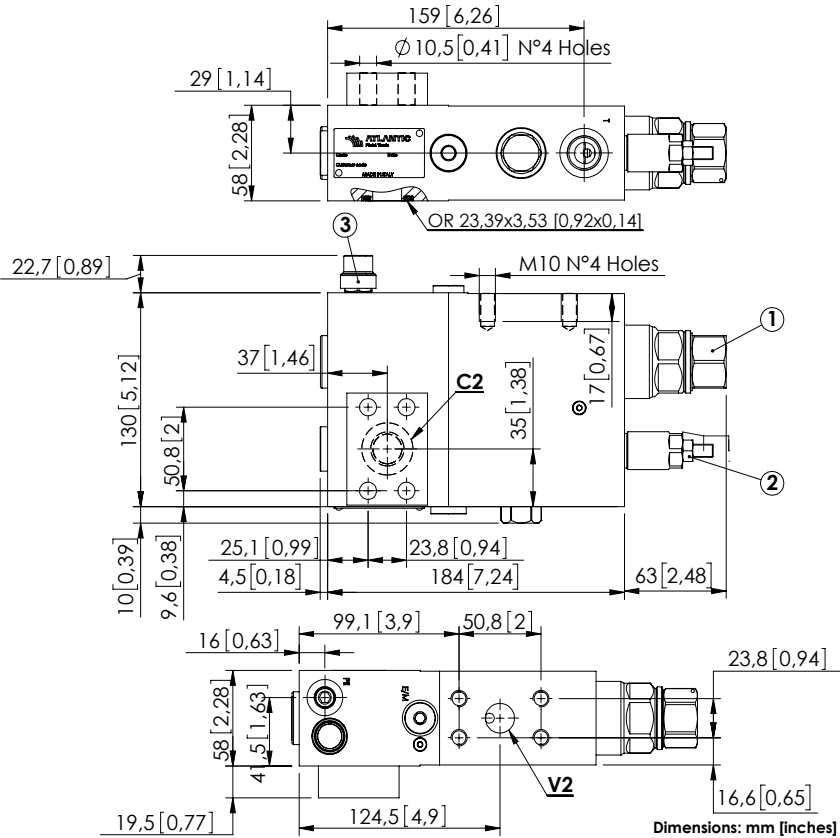
APPLICATIONS - ALL TERRAIN CRANES



Hydraulic scheme	Valve description	Valve type	Rated flow l/min (gpm)	Max. pressure bar (psi)	Installation	Main port size or cavity type	Page
	MLST-250-AAGN	-	250 (66)	350 (5000)	In line	3/4" SAE 6000	20.02.010

EXCAVATORS VALVE

MLST-250-AAGN



SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	250 l/min (66 gpm)
Manifold:	Steel
Weight:	10,56 kg (23,3 lbs)
Contamination class to ISO 4406:	See technical spec.
MTF <sub>d</sub> :	150 - 1200 years: See technical spec.

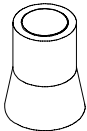
NOTES

When correctly adjusted for the specific excavator installation, these valves meet the requirement of ISO 8643.

Piston with grooves.

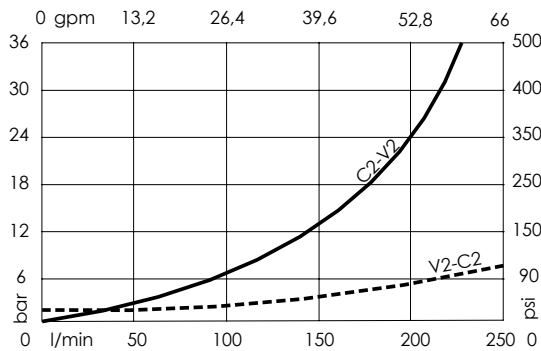
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP



Ordering code:  
AT000020

CURVES



ORDERING CODES

Quick code	Description	Ports	Standard setting Q=5 l/min (1.3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
ML000212	MLST-250-AAGN-00-S34-N350	V2,C2: 3/4" SAE 6000 Pil,E/M: G 1/4" T: G 1/2"	① 9 bar (130 psi) ② 350 bar (5000 psi) ③ 20 bar C.P. (100 psi)	① 2-15 bar (30-200 psi) ② 100-350 bar (1500-5000 psi) ③ 10-40 bar (150-600 psi)	① 1,6 (20) ② 91 bar (1300) ③ 22 bar (300)

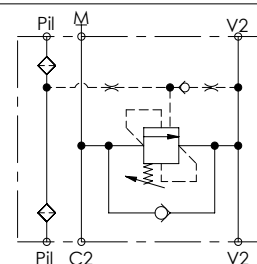
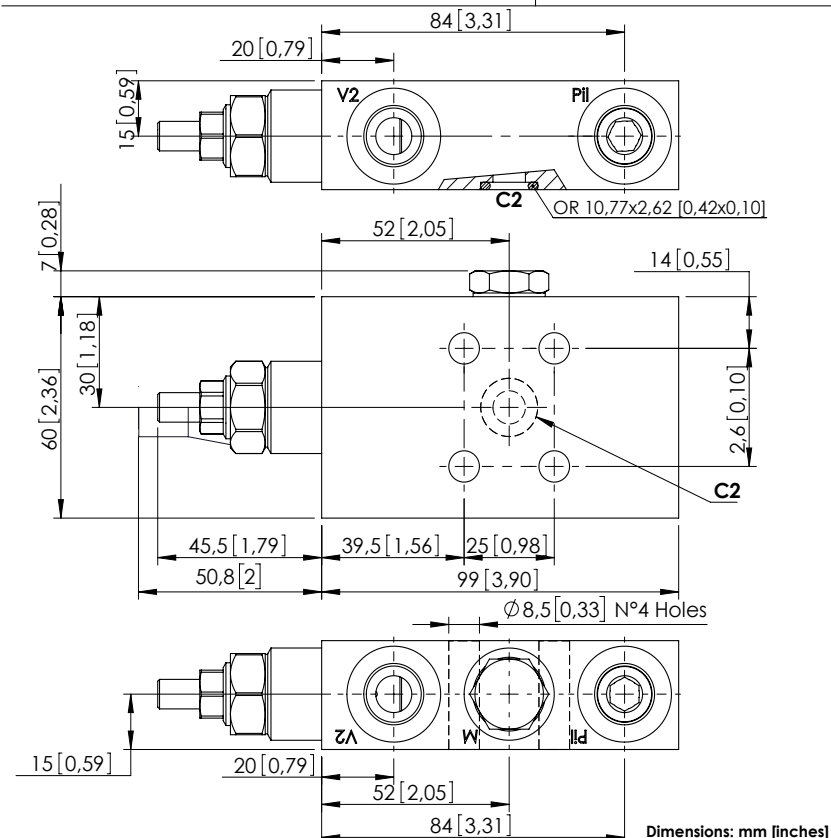
## SECTION 20. 3

## APPLICATIONS - CONCRETE PUMP CRANES



Hydraulic scheme	Valve description	Valve type	Rated flow l/min (gpm)	Max. pressure bar (psi)	Installation	Main port size or cavity type	Page
	MBSN-060-ZAPF	-	60 (16)	350 (5000)	Flanged	G 3/8"	20.03.010
	MBSN-060-AAST	-	60 (16)	350 (5000)	Flanged	Ø9	20.03.020
	MBSN-060-AASA	-	60 (16)	500 (7200)	Flanged	Ø9	20.03.030
	MBSN-060-APST	-	60 (16)	420 (6000)	Flanged	M22x1,5	20.03.040
	MBSN-080-APST	-	80 (21)	500 (7200)	Flanged	M22x1,5	20.03.050
	MBSN-060-ZENV	-	60 (16)	500 (7200)	Flanged	Ø9	20.03.060

## CONCRETE PUMP CRANES

**MBSN-060-ZAPF**SINGLE ACTING  
FLANGED**SPECIFICATIONS**

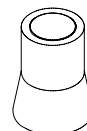
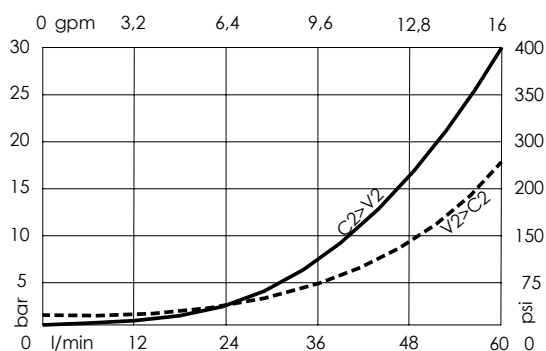
Max. operating pressure:	350 bar (5000 psi)
Rated flow:	60 l/min (16 gpm)
Manifold:	Steel
Weight:	0,56 kg (1,23 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFa:	150 - 1200 years: See technical spec.

**NOTES**

Setting: at least 1.3 times the load induced pressure.

Operative pilot ratio: 2,1:1

For other configurations/quick codes not available in this catalogue page please consult factory

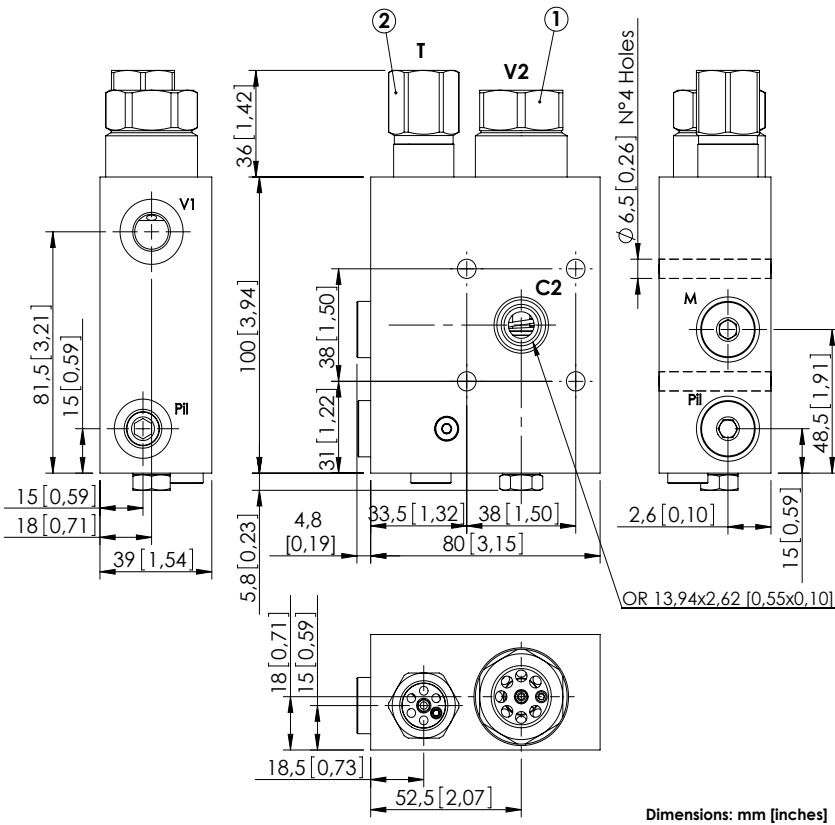
**SEALING CAP**Ordering code:  
AT000020**CURVES****ORDERING CODES**

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase
MB000461	MBSN-060-ZAPF-02-G38-N350	4:1	V2, Pil: G 3/8" M: M12x1,5 C2: Ø9	340 bar (4900 psi)	100-350 bar (1500-5000 psi)	138 bar/turn (2000 psi/turn)

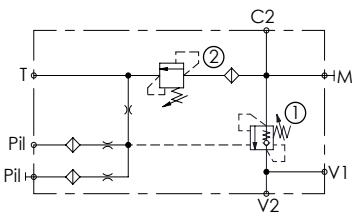
Revision B

CONCRETE PUMP CRANES

MBSN-060-AAST



Dimensions: mm [inches]



SPECIFICATIONS

Max. operating pressure:	500 bar (7200 psi)
Rated flow:	60 l/min (16 gpm)
Manifold:	Steel
Weight:	2.42 kg (5.3 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

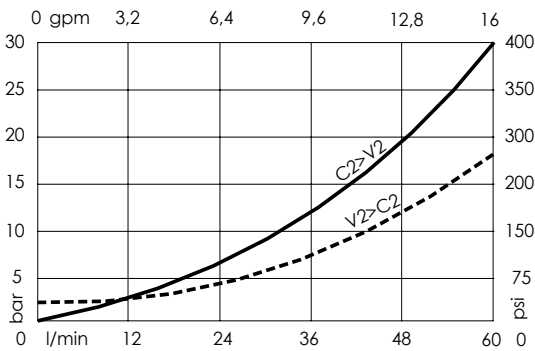
NOTES

Setting: at least 1.3 times the load induced pressure.

Operative pilot ratio: 3,6:1

For other configurations/quick codes not available in this catalogue page please consult factory

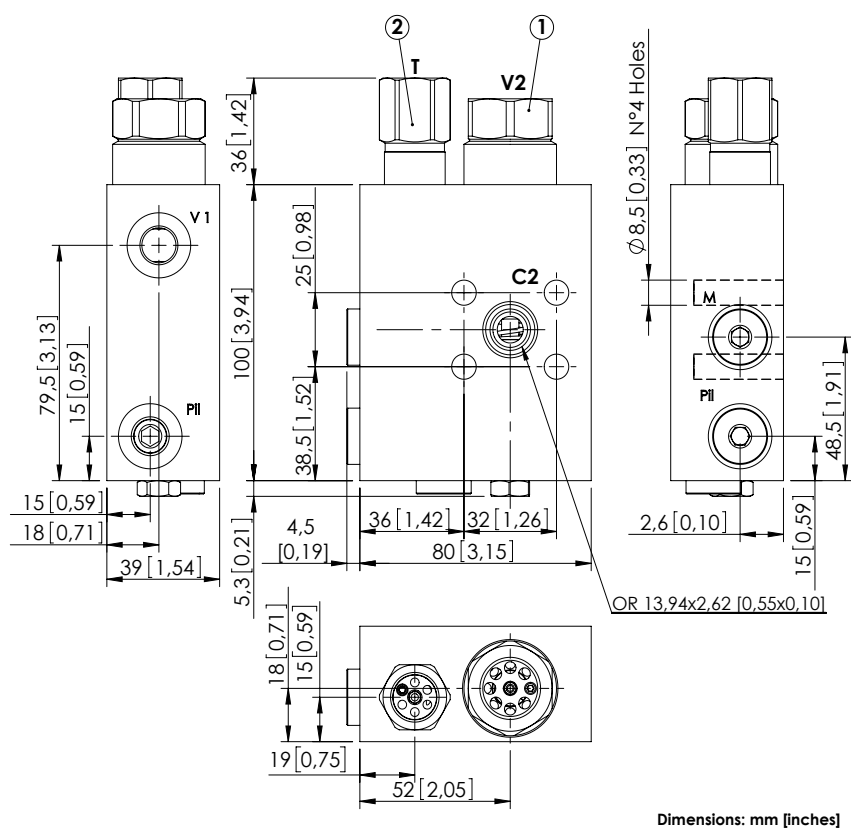
CURVES



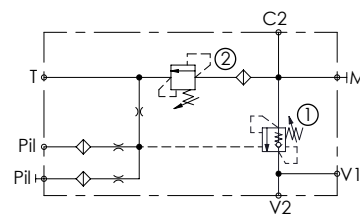
ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1.3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
MB000101	MBSN-060-AAST-07-G12-N500	7:1	V1,Pil,M: G 1/4" C2: Ø9 T: G3/8" V2: G1/2"	① 450 bar (6500 psi) ② 450 bar (6500 psi)	① 200-450 bar (2900-6500 psi) ② 250-450 bar (3600-6500 psi)	① 366 (5300) ② 167 (2400)

## CONCRETE PUMP CRANES

**MBSN-060-AASV**

Dimensions: mm [inches]

**SPECIFICATIONS**

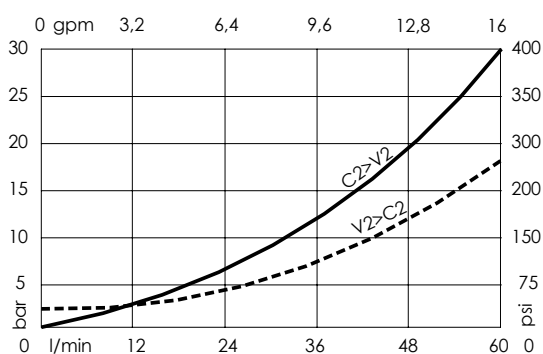
Max. operating pressure:	500 bar (7200 psi)
Rated flow:	60 l/min (16 gpm)
Manifold:	Steel
Weight:	2.38 kg (5.3 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTF <sub>d</sub> :	150 - 1200 years: See technical spec.

**NOTES**

Setting: at least 1.3 times the load induced pressure.

Operative pilot ratio: 2.5:1

For other configurations/quick codes not available in this catalogue page please consult factory

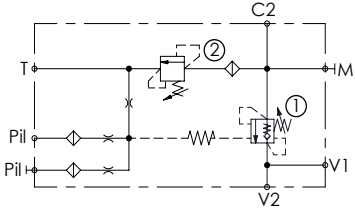
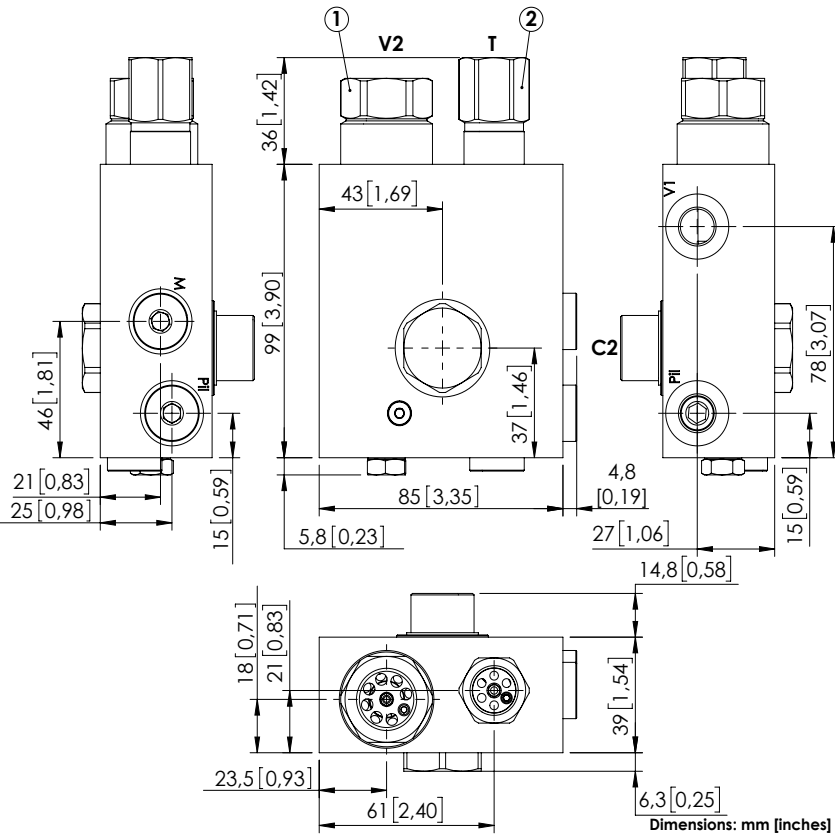
**CURVES****ORDERING CODES**

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1.3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
MB000088	MBSN-060-AASV-02-G12-N500	7:1	V1, P1: G 1/4" C2: Ø9 T: G 3/8" V2: G 1/2" M: G 1/8"	① 420 bar (6000 psi) ② 280 bar (4000 psi)	① 200-450 bar (2900-6500 psi) ② 100-450 bar (1500-6500 psi)	① 366 (5300) ② 102 (1500)

Revision B

CONCRETE PUMP CRANES

MBSN-060-APST



SPECIFICATIONS

Max. operating pressure:	420 bar (6000 psi)
Rated flow:	60 l/min (16 gpm)
Manifold:	Steel
Weight:	2.61 kg (5.7 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

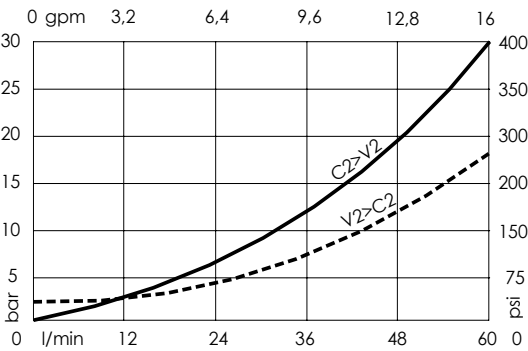
NOTES

Setting: at least 1.3 times the load induced pressure.

Pilot ratio: 7:1

For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



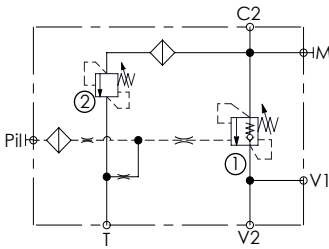
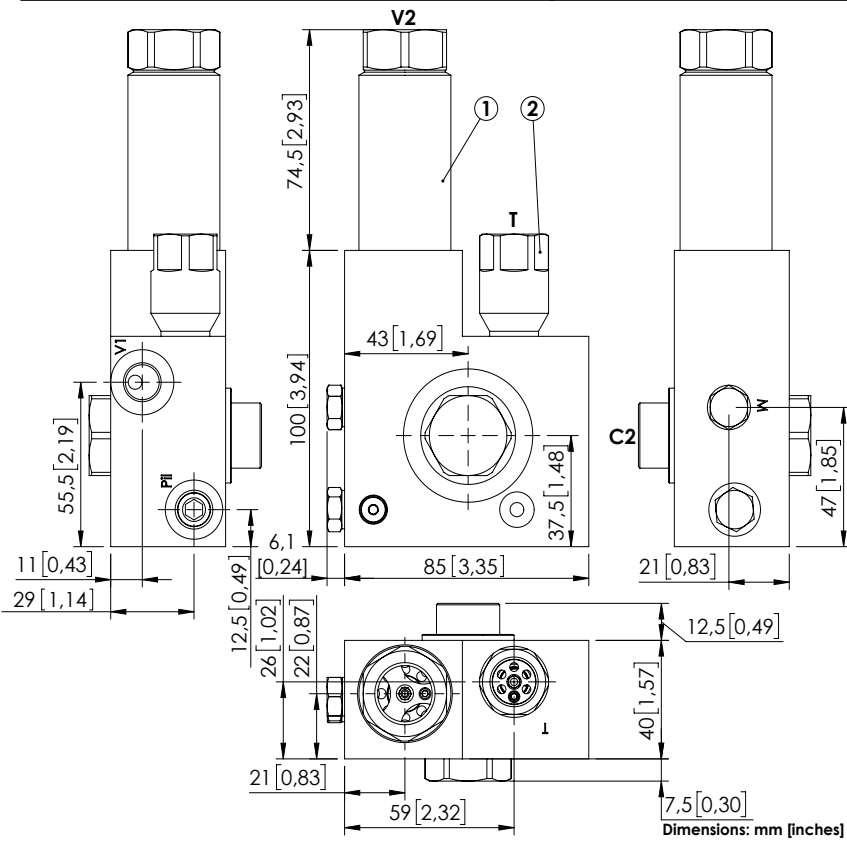
ORDERING CODES

Quick code	Description	Oper. pilot ratio	Ports	Standard setting Q=5 l/min (1.3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
MB000823	MBSN-060-APST-01-M22-N420	1,5:1	V1,Pil,M: G 1/4" V2: G 1/2" T: G3/8" C2: M22x1,5	① 380 bar (5500 psi) ② 400 bar (5800 psi)	① 200-420 bar (2900-6000 psi) ② 250-450 bar (3600-6500 psi)	① 366 (5300) ② 167 (2400)
MB000824	MBSN-060-APST-02-M22-N420	2,3:1	V1,Pil,M: G 1/4" V2: G 1/2" T: G3/8" C2: M22x1,5	① 210 bar (3000 psi) ② 230 bar (3300 psi)	① 200-420 bar (2900-6000 psi) ② 250-450 bar (3600-6500 psi)	① 366 (5300) ② 167 (2400)



CONCRETE PUMP CRANES

MBSN-080-APST



SPECIFICATIONS

Max. operating pressure:	500 bar (7200 psi)
Rated flow:	80 l/min (21 gpm)
Manifold:	Steel
Weight:	2.50 kg (5.3 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

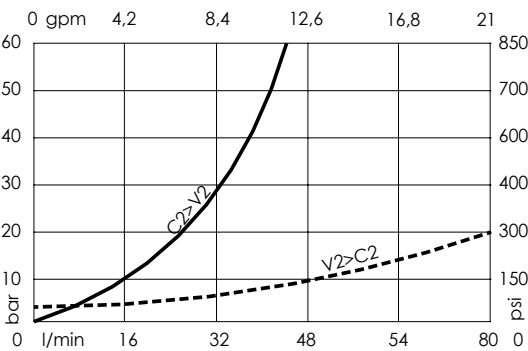
NOTES

Setting: at least 1.3 times the load induced pressure.

Operative pilot ratio: 2,3:1

For other configurations/quick codes not available in this catalogue page please consult factory

CURVES



ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1.3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
MB000913	MBSN-080-APST-02-M22-N500	7:1	V1, Pil: G 1/4" V2: G 1/2" T: G 3/8" C2: M22x1.5 M: M8x1	① 380 bar (5500 psi) ② 400 bar (5800 psi)	① 200-450 bar (2900-6500 psi) ② 250-450 bar (3600-6500 psi)	① 366 (5300) ② 195 (2800)

Revision C





APPLICATIONS - SALT SPRAYERS

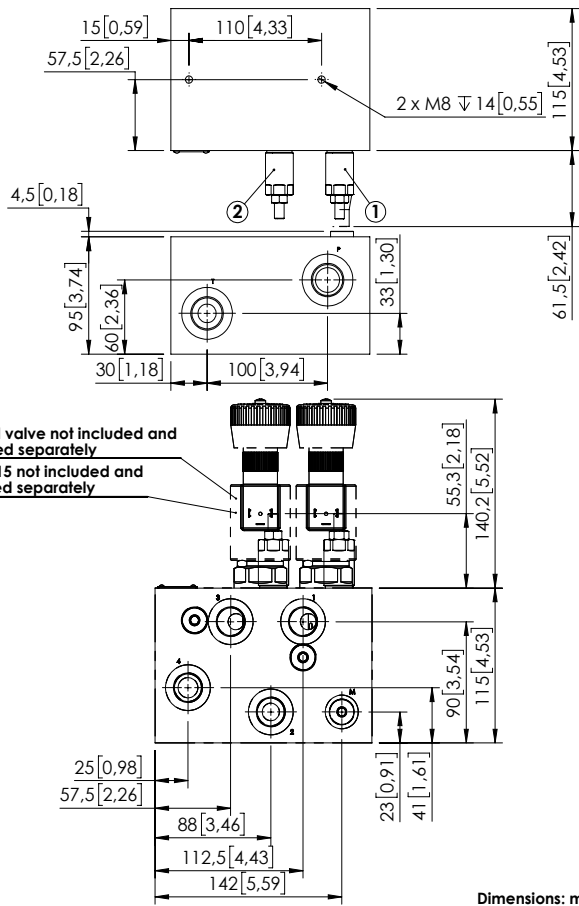


Hydraulic scheme	Valve description	Valve type	Rated flow l/min (gpm)	Max. pressure bar (psi)	Installation	Main port size or cavity type	Page
	BFRM-140-LLLO-02	Proportional valve	140 (37)	250 (3600)	In line	M26x1,5	20.04.010
	BFRM-140-LLLO-03	Proportional valve	140 (37)	250 (3600)	In line	M27x1,5	20.04.020
	Directional valve	Directional valve	40 (11)	210 (3000)	In line	G 3/8"	20.04.030
	Directional valve	Directional valve	40 (11)	210 (3000)	In line	G 3/8"	20.04.040

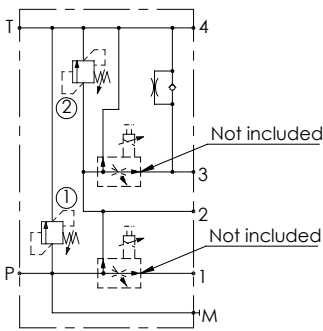
SALT SPRAYER VALVE

BFRM-140-LLLO

PROPORTIONAL VALVE



Dimensions: mm [inches]



SPECIFICATIONS

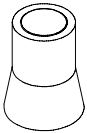
Max. operating pressure:	250 bar (3600 psi)
Rated flow:	140 l/min (37 gpm)
Max. regulated flow:	0-80 l/min (0-21 gpm)
Manifold:	Aluminium
Weight:	4,4 kg (9,7 lbs)
Coil type:	M15
Cavity type:	SAE-16-3N
Contamination class to ISO 4406:	See technical spec.
MTTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

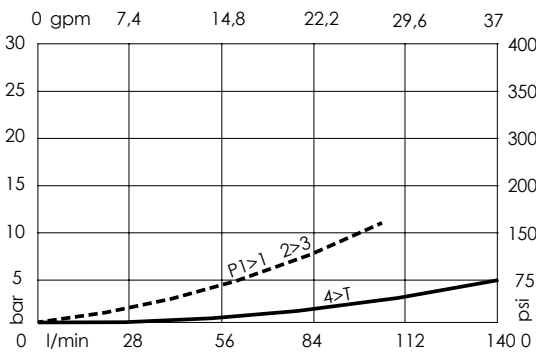
See chapter 21.00.000 for coils info.  
See chapter 16.00.000 for proportional valves info.  
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP

Ordering code:  
AT000020



CURVES



ORDERING CODES

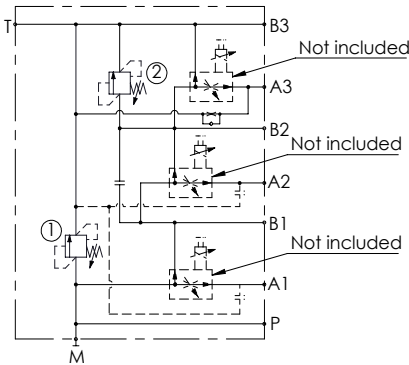
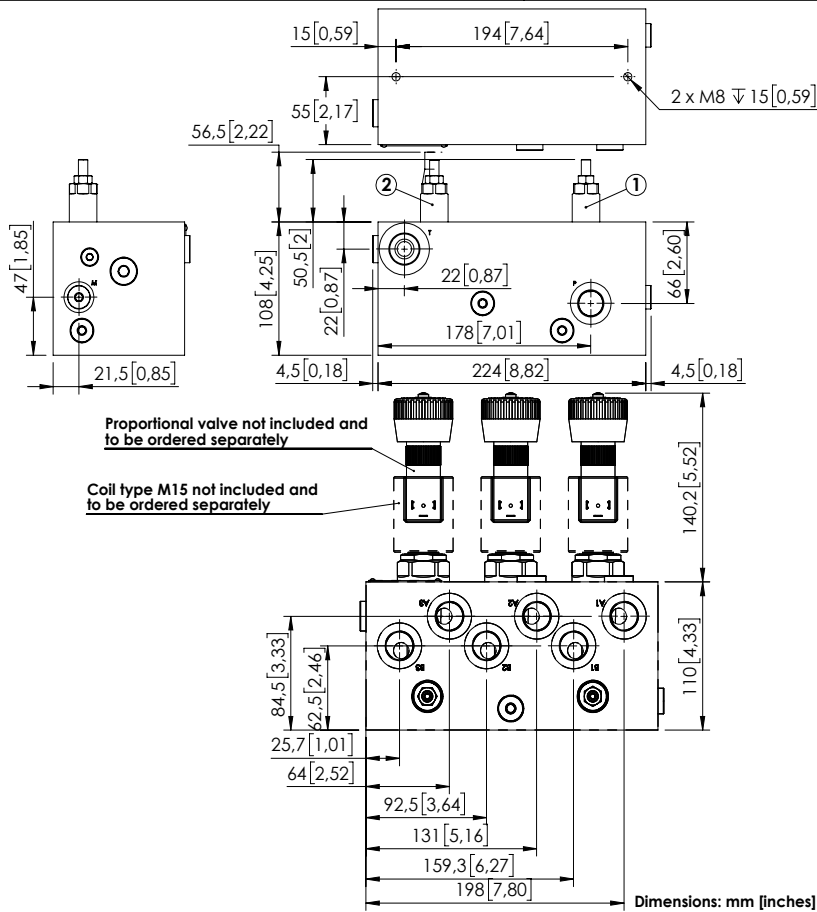
Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
BF000020	BFRM-140-LLLO-02-M27-N250	1,2,3,4: M22x1,5 P,T: M27x2 M: M14x1,5	① 200 bar (2900 psi) ② 100 bar (1500 psi)	① 50-210 bar (700-3000 psi) ② 30-100 bar (400-1500 psi)	① 42 (600) ② 22 (300)

Revision A1

SALT SPRAYER VALVE

BFRM-140-LLLO

PROPORTIONAL VALVE



SPECIFICATIONS

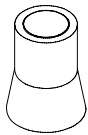
Max. operating pressure:	250 bar (3600 psi)
Rated flow:	140 l/min (37 gpm)
Max. regulated flow:	0-80 l/min (0-21 gpm)
Manifold:	Aluminium
Weight:	6,4 kg (14,1 lbs)
Coil type:	M15
Cavity type:	SAE-16-3N
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

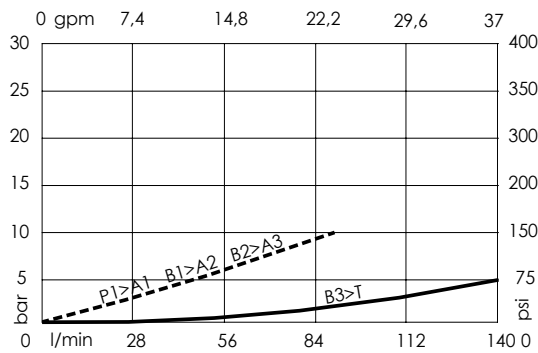
See chapter 21.00.000 for coils info.  
See chapter 16.00.000 for proportional valves info.  
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP

Ordering code:  
AT000020



CURVES



ORDERING CODES

Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
BF000019	BFRM-140-LLLO-03-M26-N250	A, B, P: M22x1,5 T: M26x2 M: M14x1,5	① 200 bar (2900 psi) ② 100 bar (1500 psi)	① 50-210 bar (700-3000 psi) ② 30-100 bar (400-1500 psi)	① 42 (600) ② 22 (300)

SALT SPRAYER VALVE

EBLE-040-CCSM

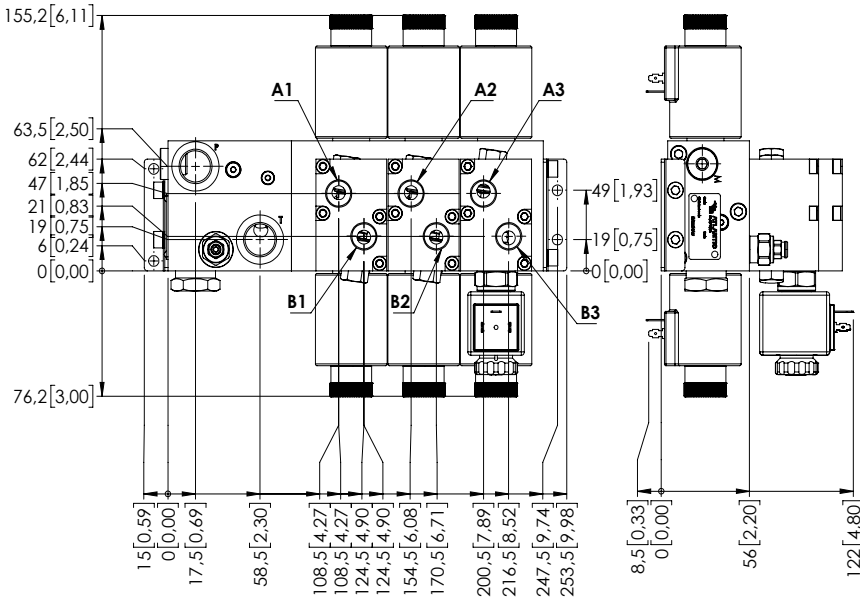


SPECIFICATIONS

Max. operating pressure:	210 bar (3000 psi)
Rated flow:	40 l/min (11 gpm)
Manifold:	Cast-Iron
Weight:	12,1 kg (26 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTF <sub>d</sub> :	150 - 1200 years: See technical spec.

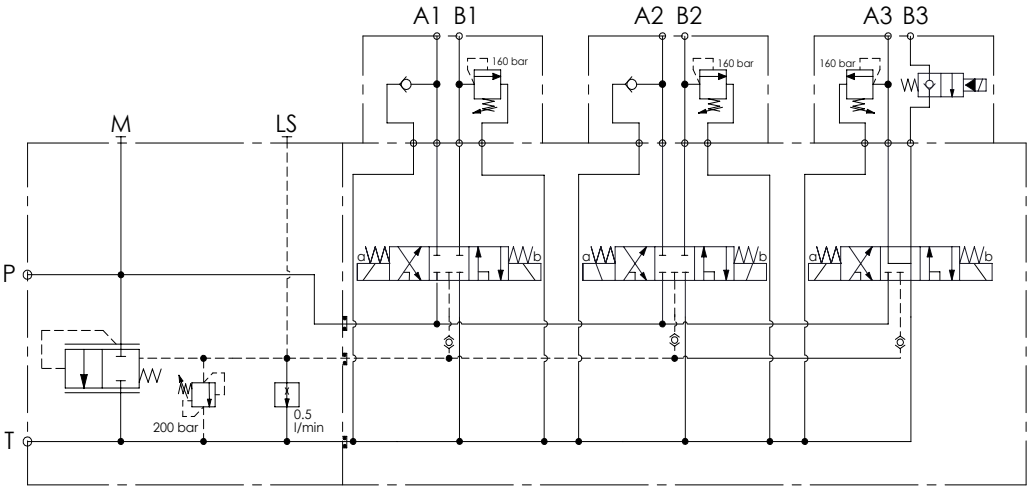
NOTES

For other configurations/quick codes not available in this catalogue page please consult factory



Dimensions: mm [inches]

SCHEME



ORDERING CODES

Quick code	Description	Ports	Voltage	Connector type:	
EB000041	EBLE-040-CCSM-MX-G12-BHRN	A,B: G3/8" P,T: G1/2" M: G1/4"	24V DC	DIN 43650	

Revision A1

SALT SPRAYER VALVE

EBLE-040-CCLM

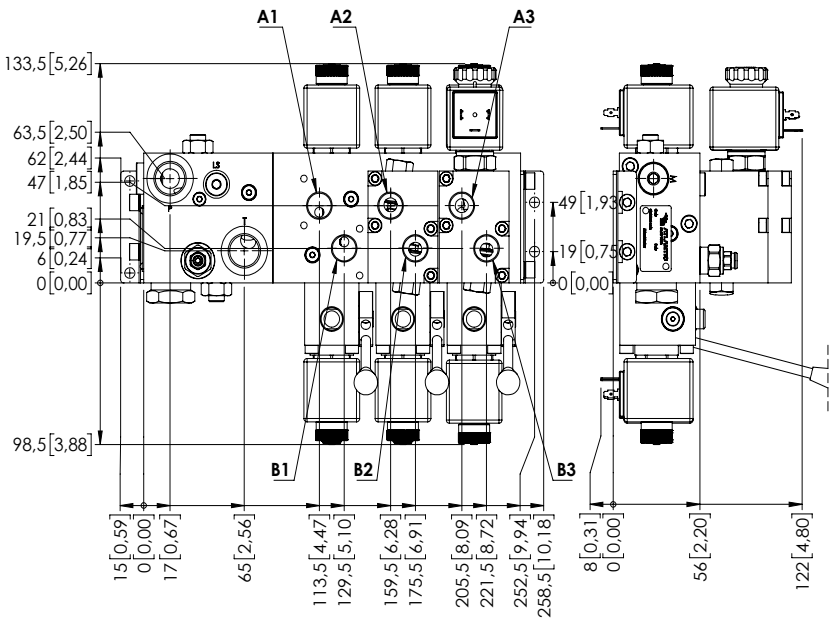


SPECIFICATIONS

Max. operating pressure:	210 bar (3000 psi)
Rated flow:	40 l/min (11 gpm)
Manifold:	Cast-Iron
Weight:	10,6 kg (23,3 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

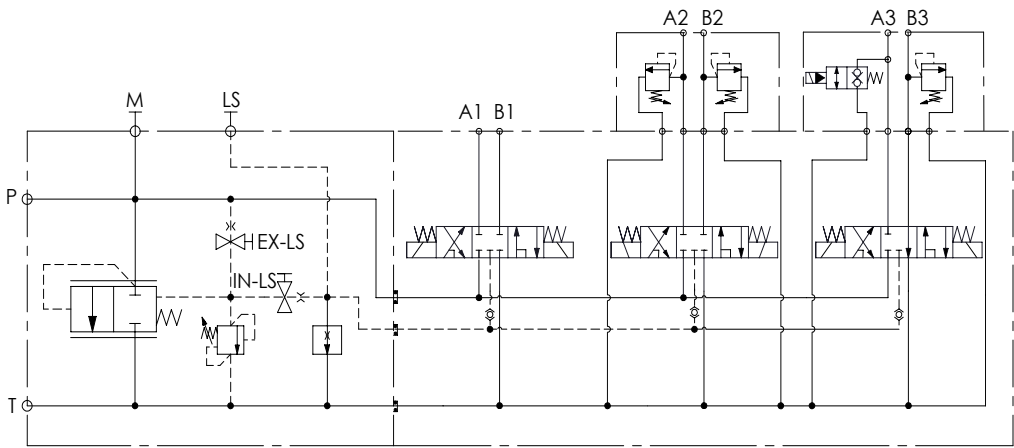
NOTES

For other configurations/quick codes not available in this catalogue page please consult factory



Dimensions: mm [inches]

SCHEME



ORDERING CODES

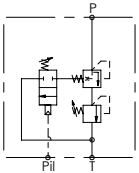
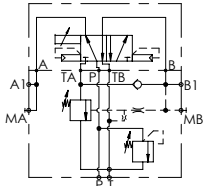
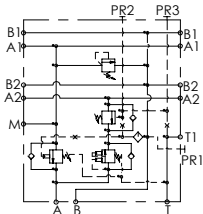
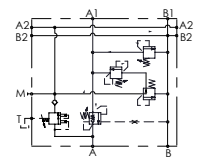
Quick code	Description	Ports	Voltage	Connector type:	
EB000042	EBLE-040-CCLM-MX-G12-BHRN	A,B: G3/8" P,T: G1/2" M: G1/4" LS: G1/8"	24V DC	DIN 43650	





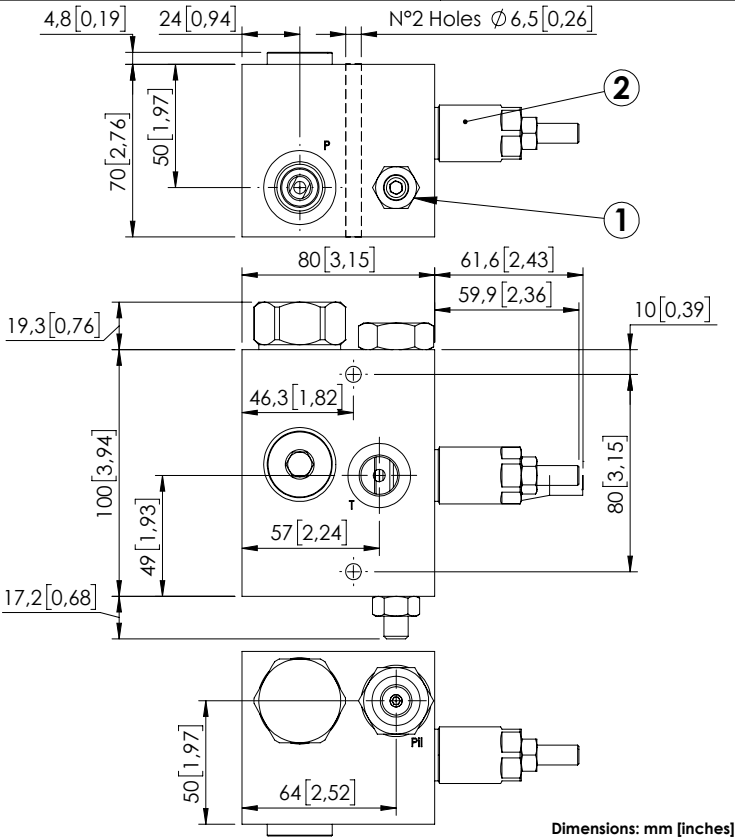
## APPLICATIONS - GARBAGE COMPACTORS



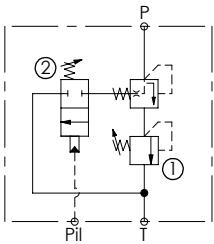
Hydraulic scheme	Valve description	Valve type	Rated flow l/min (gpm)	Max. pressure bar (psi)	Installation	Main port size or cavity type	Page
	MTLN-030-TLSL	-	30 (8)	210 (3000)	In line	G 1/2"	20.05.010
	MDAF-080-BRNR	-	80 (21)	210 (3000)	In line	G 1/2"	20.05.020
	MRDN-150-ZLNP	-	150 (40)	350 (5000)	In line	G 3/4"	20.05.030
	BDMN-150-NLBL	-	150 (40)	350 (5000)	In line	G 3/4"	20.05.040

GARBAGE COMPACTORS

MTLN-030-TLSL



Dimensions: mm [inches]



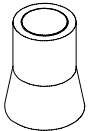
SPECIFICATIONS

Max. operating pressure:	210 bar (3000 psi)
Rated flow:	30 l/min (8 gpm)
Manifold:	Aluminium
Weight:	1,91 kg (4.1 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

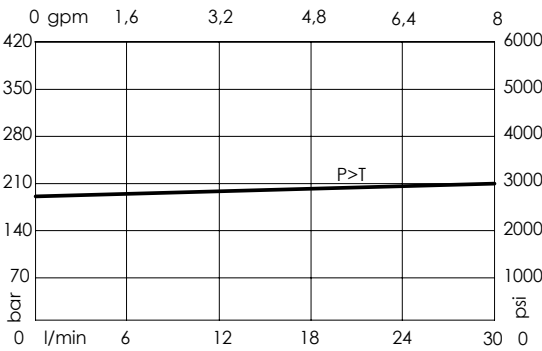
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP



Ordering code:  
AT000020

CURVES



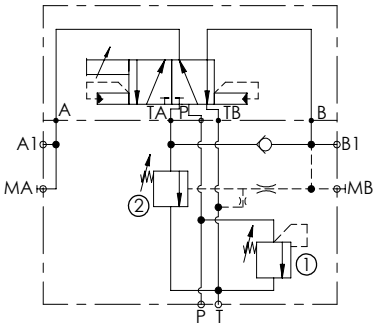
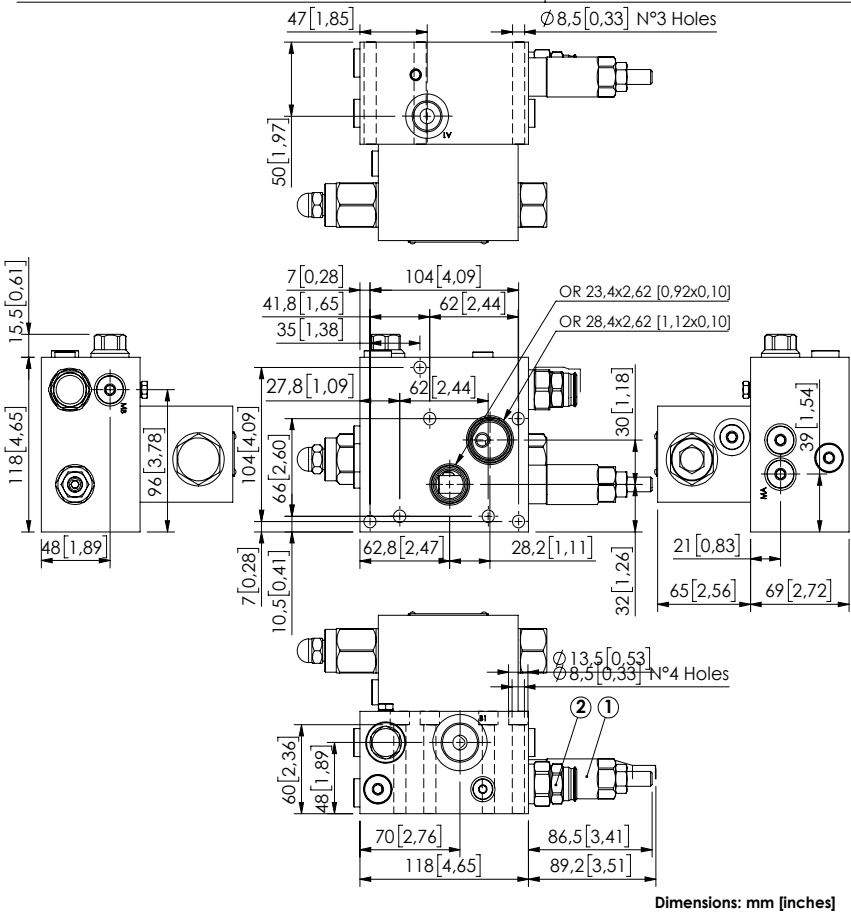
ORDERING CODES

Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
MT000008	MTLN-030-TLSL-NP-G12-N180	P,T: G 1/2" M: G1/4"	① 180 bar (2600 psi) ② 40 bar (600 psi)	① 40-200 bar (600-2900 psi) ② 10-50 bar (150-700 psi)	① 49 (700) ② 10 (150)

GARBAGE COMPACTORS

MDAF-080-BRNR

REGENERATIVE FUNCTION



SPECIFICATIONS

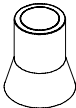
Max. operating pressure:	210 bar (3000 psi)
Rated flow:	80 l/min (21 gpm)
Manifold:	Aluminium
Weight:	5,99 kg (13,2 lbs)
Contamination class to ISO 4406:	See technical spec.
MTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP

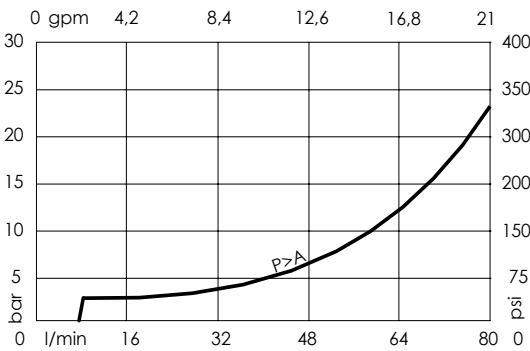
Ordering code:  
AT000021  
(Valve n°1)



Ordering code:  
PT000243  
(Valve n°2)



CURVES

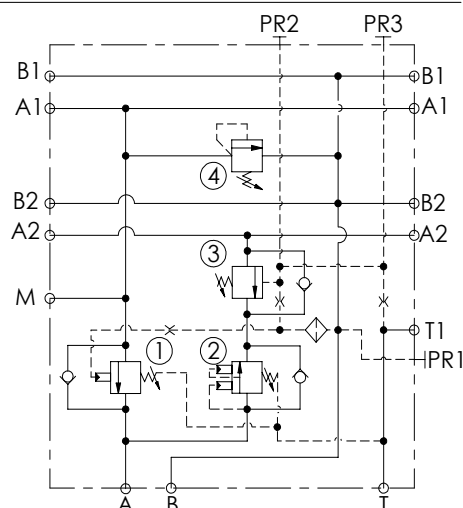
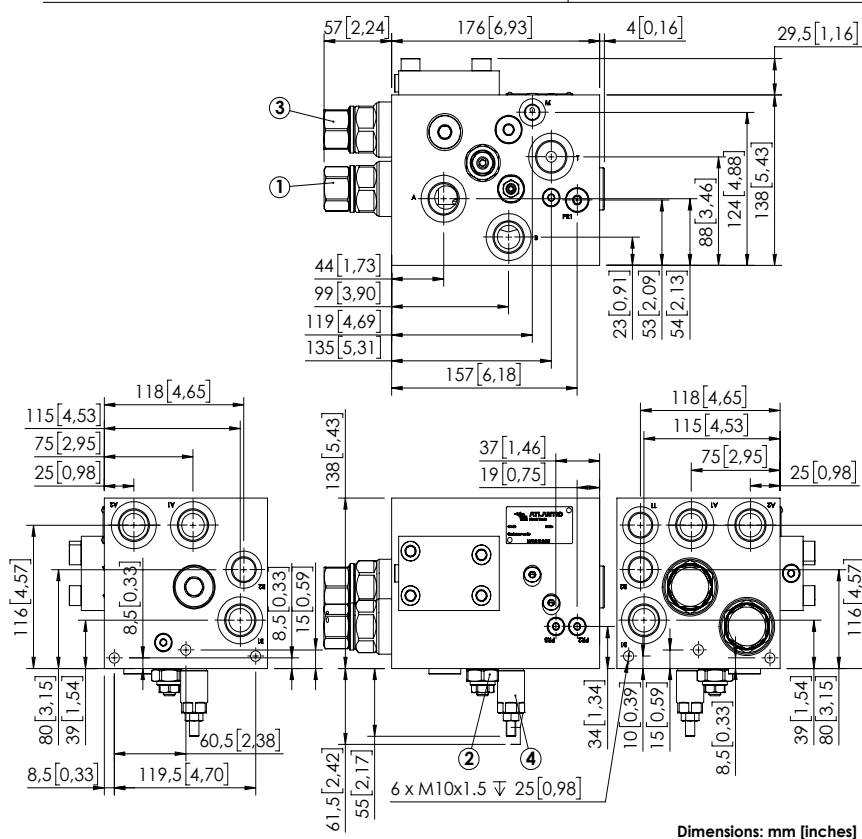


ORDERING CODES

Quick code	Description	Ports	Standard setting Q=5 l/min (1,3 gpm)	Setting range	Pressure increase bar/turn (psi/turn)
MD000023	MDAF-080-BRNR-NP-N10-N210	P,A1: G 1/2" T,B1: G 3/4" MA,MB: G 1/4"	① 180 bar (2600 psi) ② 130 bar (1800 psi)	① 100-350 bar (1500-5000 psi) ② 70-140 bar (1000-2000 psi)	① 42 (600) ② -

## GARBAGE COMPACTORS

## MRDN-150-ZLNP



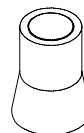
## SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	150 l/min (40 gpm)
Manifold:	Aluminium
Weight:	10,18 kg (22,4 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

## NOTES

For other configurations/quick codes not available in this catalogue page please consult factory

## SEALING CAP



Ordering code:  
AT000020

## CURVES

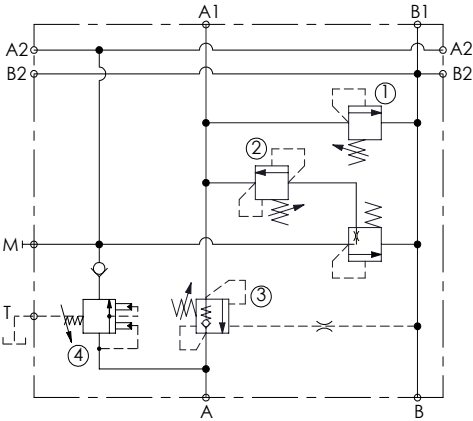
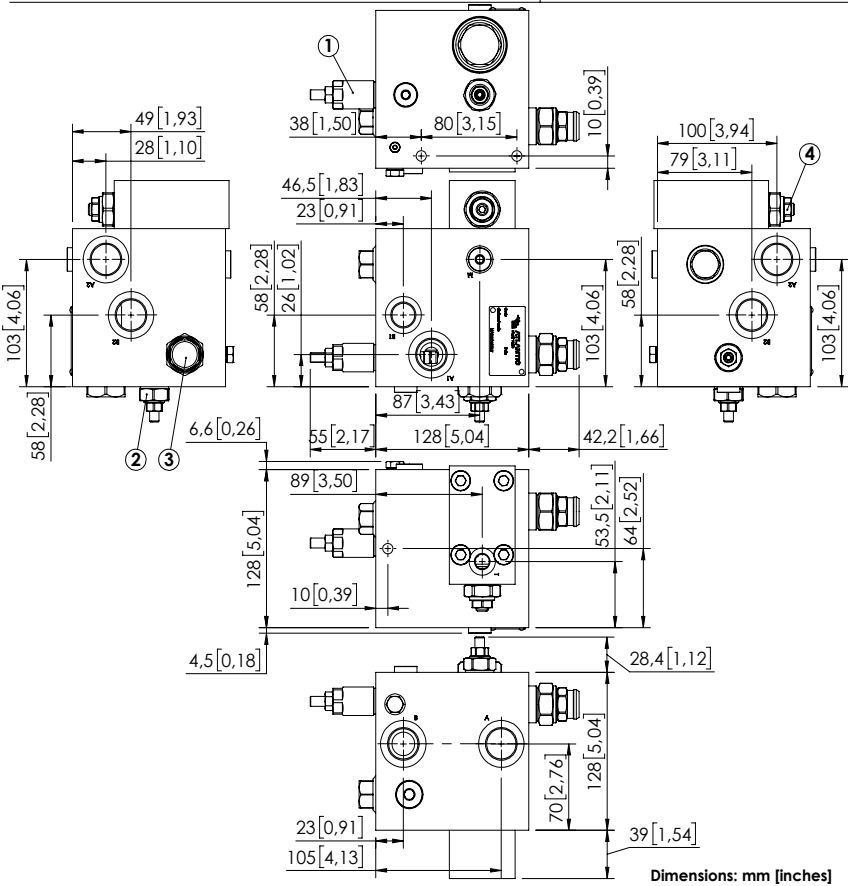
## ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
MB000700	MRDN-150-ZLNP-06-G34-N350	4:1	A, A1, A2, B, B1, T: G3/4" B2, T1: G1/2" T2, M1, T3: G1/4"	① 300 bar (4300 psi) ② 175 bar (2500 psi) ③ 350 bar (5000 psi) ④ 280 bar (4000 psi)	① 100-350 bar (1500-5000 psi) ② 140-350 bar (2000-5000 psi) ③ 60-210 bar (850-3000 psi) ④ 100-350 bar (1500-5000 psi)	① 105 (1500) ② 70,5 (1000) ③ 62 (850) ④ 91 (1300)

Revision A1

GARBAGE COMPACTORS

BDMN-150-NLBL



SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	150 l/min (40 gpm)
Manifold:	Aluminium
Weight:	6,5 kg (14,3 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP

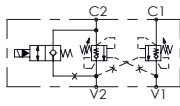
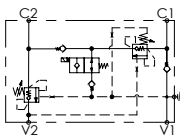
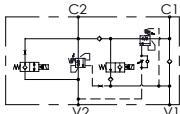
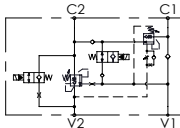
Ordering code: AT000022 (Valves n°1,2)		Ordering code: ST000012 (Valve n°3)	
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CURVES

ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase bar/turn (psi/turn)
BD000131	BDMN-150-NLBL-NP-G34-N350	4:1	A,A1,A2,B,B1,T: G3/4" B1: G1/2" T,M: G1/4"	① 280 bar (4000 psi) ② 50 bar (700 psi) ③ 230 bar (3300 psi) ④ 175 bar (2500 psi)	① 100-350 bar (1500-5000 psi) ② 90-210 bar (1300-3000 psi) ③ 60-210 bar (850-3000 psi) ④ 140-350 bar (2000-5000 psi)	① 91 (1300) ② 87 (1200) ③ 70 (700) ④ 70,5 (1000)

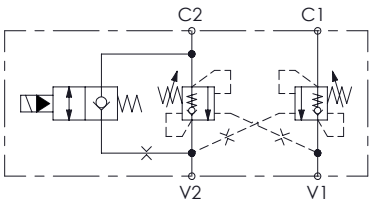
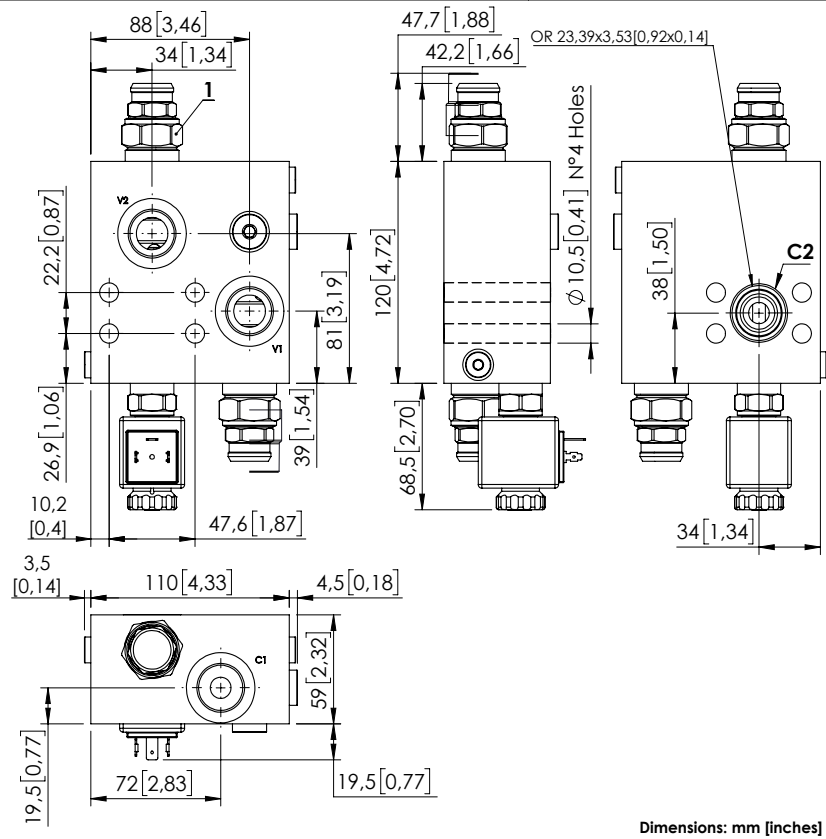
# APPLICATIONS - HOOK LOADERS

Hydraulic scheme	Valve description	Valve type	Rated flow l/min (gpm)	Max. pressure bar (psi)	Installation	Main port size or cavity type	Page
	<a href="#">MBDN-150-ZABE</a>	Double acting with electric by-pass	150 (40)	350 (5000)	In line	G 3/4"	20.06.010
	<a href="#">MBPN-150-ZLNR</a>	Regenerative with electric by-pass	150 (40)	350 (5000)	In line	G 3/4"	20.06.020
	<a href="#">MRSN-150-ALBE</a>	Regenerative with electric by-pass	150 (40)	350 (5000)	In line	G 3/4"	20.06.030
	<a href="#">MRLN-150-ZABE</a>	Regenerative with electric by-pass	150 (40)	350 (5000)	In line	G 3/4"	20.06.040

HOOK LOADERS

MBDN-150-ZABE

DOUBLE ACTING  
WITH ELECTRIC BY-PASS



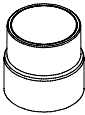
SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	150 l/min (40 gpm)
Manifold:	Steel
Coil type:	M7
Voltage:	26V
Weight:	2,76 kg (6 lbs)
Contamination class to ISO 4406:	See technical spec.
MTF <sub>d</sub> :	150 - 1200 years: See technical spec.

NOTES

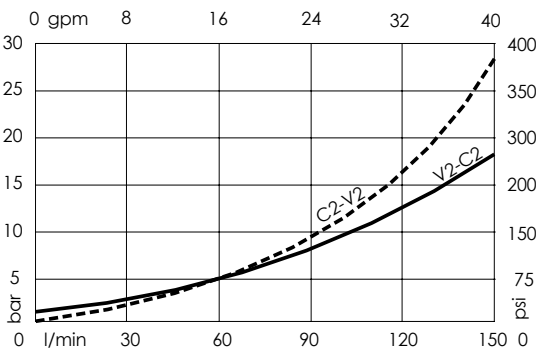
Setting: at least 1.3 times the load induced pressure.  
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP



Ordering code:  
ST000012

CURVES



ORDERING CODES

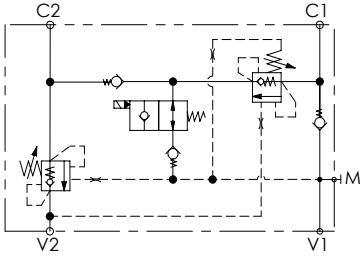
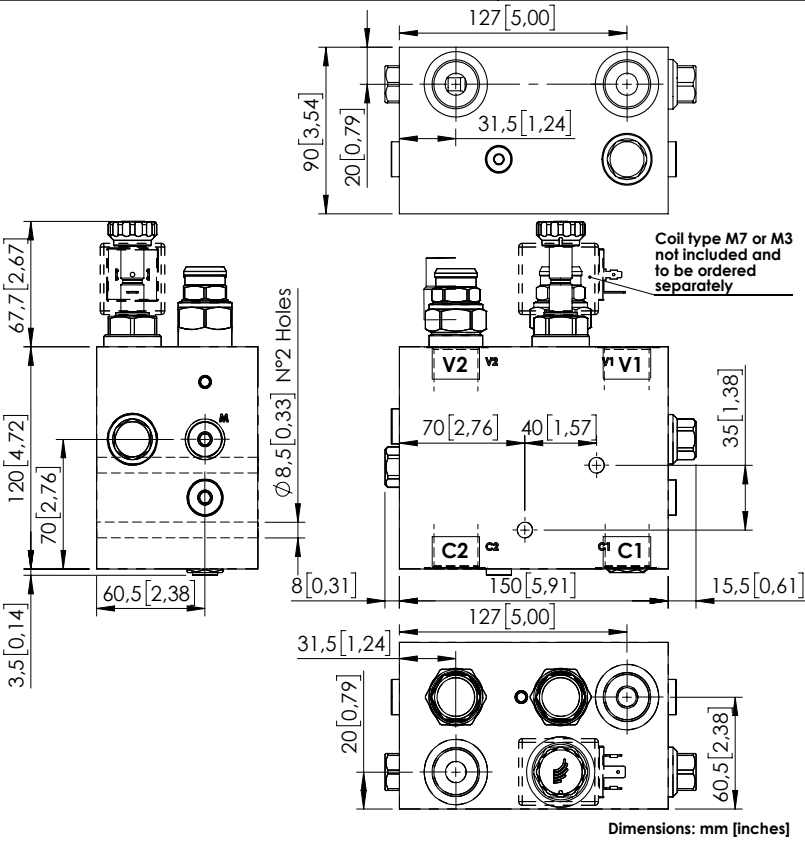
Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase
MB000915	MBDN-150-ZABE-04-G34-N350	4:1	V1,V2,C1: G 3/4" C2: 3/4" SAE 6000	350 bar (5000 psi)	100-350 bar (1500-5000 psi)	104 bar/turn (1500 psi/turn)



HOOK LOADERS

MBPN-150-ZLNR

REGENERATIVE  
WITH ELECTRIC BY-PASS



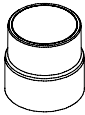
SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	150 l/min (40 gpm)
Manifold:	Aluminium
Weight:	4,92 kg (10,8 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

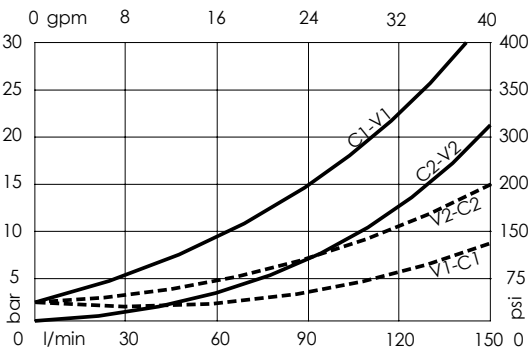
Setting: at least 1.3 times the load induced pressure.  
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP



Ordering code:  
ST000012

CURVES



ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase
MB000919	MBSN-150-ZLNR-04-G34-N210	4:1	V1,V2,C1,C2: G 3/4" M: G 1/4"	350 bar (5000 psi)	100-350 bar (1500-5000 psi)	104 bar/turn (1500 psi/turn)

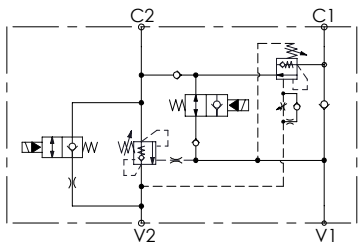
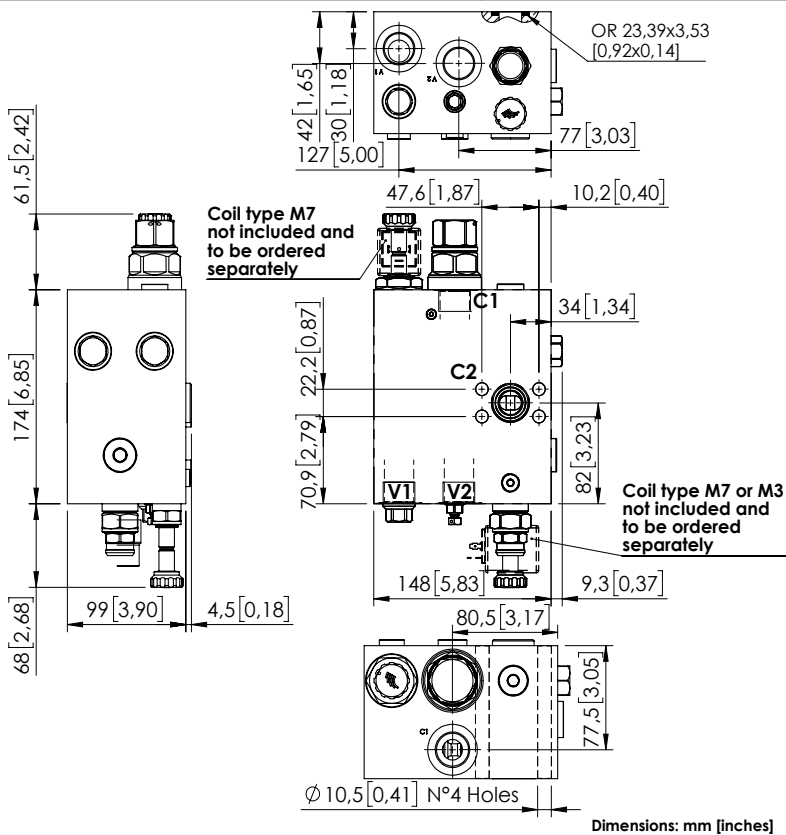


HOOK LOADERS



MRLN-150-ZABE

REGENERATIVE  
WITH ELECTRIC BY-PASS



SPECIFICATIONS

Max. operating pressure:	350 bar (5000 psi)
Rated flow:	150 l/min (40 gpm)
Manifold:	Aluminium
Coil type:	M7 or M3 type
Weight:	7,59 kg (16,7 lbs)
Contamination class to ISO 4406:	See technical spec.
MTTFd:	150 - 1200 years: See technical spec.

NOTES

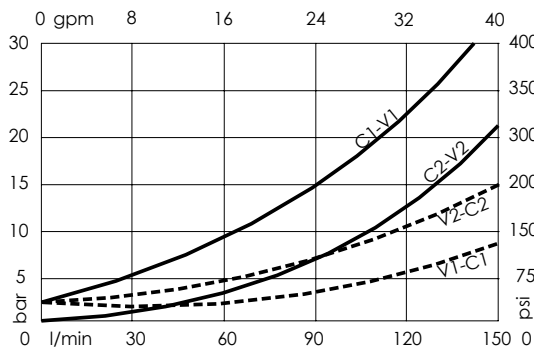
Setting: at least 1.3 times the load induced pressure.  
For other configurations/quick codes not available in this catalogue page please consult factory

SEALING CAP



Ordering code:  
ST000012

CURVES



ORDERING CODES

Quick code	Description	Pilot ratio	Ports	Standard setting Q=5 l/min (1,3 gpm)	Adjustment range	Pressure increase
MB000119	MRLN-150-ZABE-04-G34-N350	4:1	V1,V2,C1: G 3/4" C2: Ø22	350 bar (5000 psi)	100-350 bar (1500-5000 psi)	104 bar/turn (1500 psi/turn)