

Open Center Spool Valves

Monoblock Directional Control Valves D-DM11P



- compact hand lever control valve
- wide range of capabilities
- perfect designed for easy control

1 Description

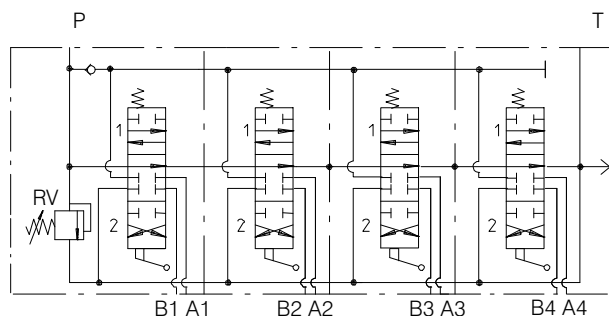
1.1 Short description

The D-DM11P is a directional control valve in a monoblock design with up to 6 spools. The valve can be used for various applications in agriculture and construction business in the power range of 220 bar and 40 l/min.

1.2 Application

- Working equipment for agriculture and construction business

2 Symbol (example)

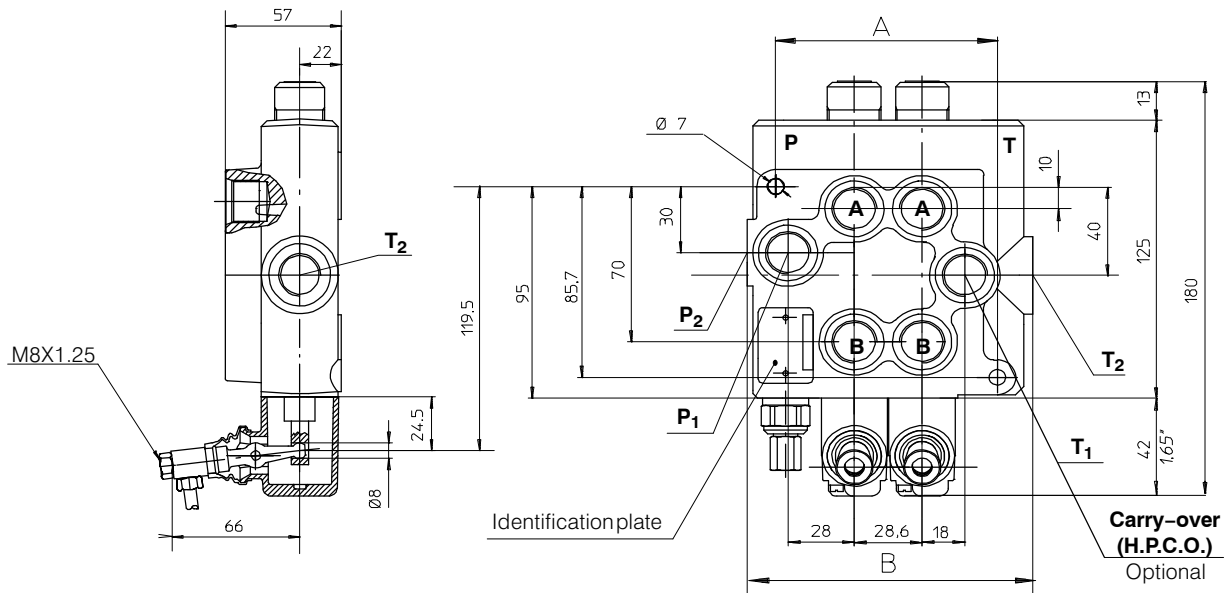


3 Technical Data

General characteristics	Unit	Description, value
Design		Monoblock design with 2, 3, 4, 5 or 6 spools
Seal material		Nitrile Butadien Rubber (NBR)
Weight	kg	D-DM11P02 = 4; D-DM11P03 = 5,2; D-DM11P04 = 6,4; D-DM11P05 = 7,6; D-DM11P06 = 8,8
Control type		Hand lever
Number of spools		2, 3, 4, 5 or 6
Adjustable direct operated relief valve	RV	integrated
Single load hold check valve	LC	integrated
Connection port P, T, A and B		3/8"

Hydraulic characteristics	Unit	Description, value
Nominal flow rate	l/min	max. 40
Maximum inlet pressure	bar	continuous 220 peak 250
Maximum tank pressure at port T	bar	25
Viscosity range	mm ² /s	16 ... 75
Oil cleanliness		class 20/18/15 of ISO 4406
Oil temperature range	°C	-10 ... +80
Spool leakage at 100 bar, 50°C and 27 mm ² /s	cm ³ /min.	12 on average

4 Dimensions



Type of trade: 3/4" BSP at P, T, A and B = Order code K04

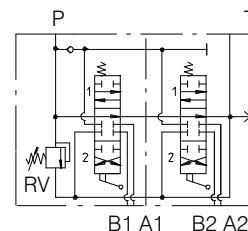
	2 sections	3 sections	4 sections	5 sections	6 sections
A in mm	93,6	122,2	150,8	179,4	208
B in mm	128,6	157,2	185,8	214,4	243

5 Preferred versions

5.1 Two spools type A,

spool positioner 01 and hand lever 100 mm

- D-DM11P2K0415AA01L100
Item number unpainted: 600112071
- D-DM11P2K0415AA01L100TC
Item number painted: 600112072

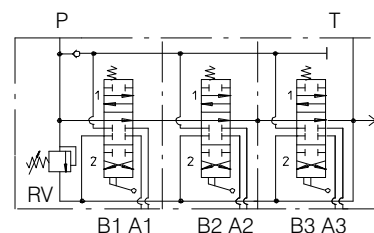


RV: Standard spring, 96-210 bar, Factory setting: 150 bar at 30 l/min

5.2 Three spools type A,

spool positioner 01 and hand lever 100 mm

- D-DM11P3K0415AAA01L100
Item number unpainted: 600112073
- D-DM11P3K0415AAA01L100TC
Item number painted: 600112074

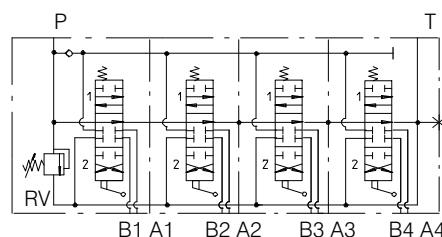


RV: Standard spring, 96-210 bar, Factory setting: 150 bar at 30 l/min

5.3 Four spools type A,

spool positioner 01 and hand lever 100 mm

- D-DM11P4K0415AAAA01L100
Item number unpainted: 600112075
- D-DM11P4K0415AAAA01L100TC
Item number painted: 600112076

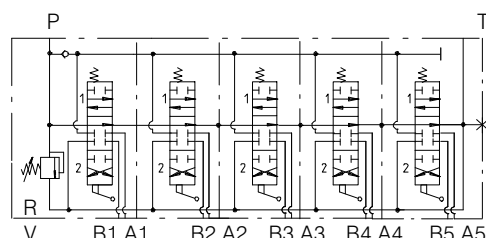


RV: Standard spring, 96-210 bar, Factory setting: 150 bar at 30 l/min

5.4 Five spools type A

spool positioner 01 and hand lever 100 mm

- D-DM11P5K0415AAAAA01L100
Item number unpainted: 600112077
- D-DM11P5K0415AAAAA01L100TC
Item number painted: 600112078

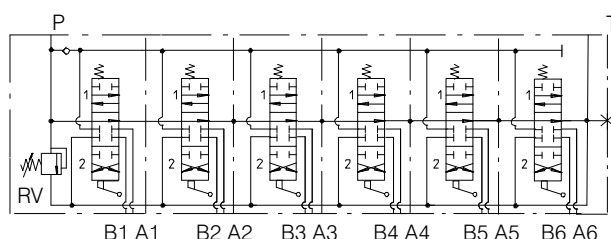


RV: Standard spring, 96-210 bar, Factory setting: 150 bar at 30 l/min

5.5 Six spools type A

spool positioner 01 and hand lever 100 mm

- D-DM11P6K0415AAAAAA01L100
Item number unpainted: 600112079
- D-DM11P6K0415AAAAAA01L100TC
Item number painted: 600112080

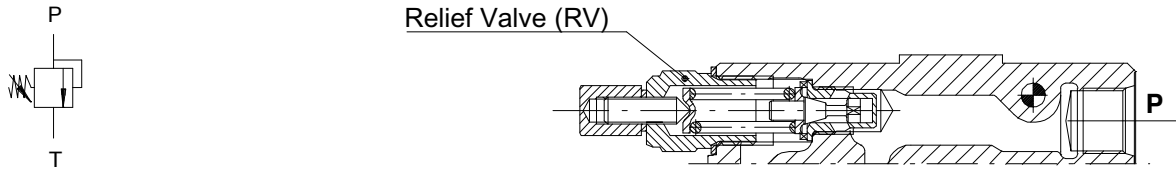


RV: Standard spring, 96-210 bar, Factory setting: 150 bar at 30 l/min

6 Options to be purchased separately

6.1 Spring for pressure relief valve (RV)

Relief valve set at 30 l/min

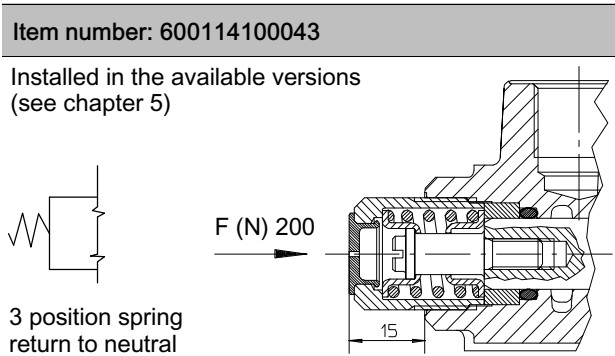


Pressure set range [bar]	Factory setting [bar]	Order code	Item number	Spring colour
30 - 95	60	06	600114300026	Yellow
96 - 210 (Standard)	150	15	600114300038	Green
211 - 300	260	26	600114300025	Blue

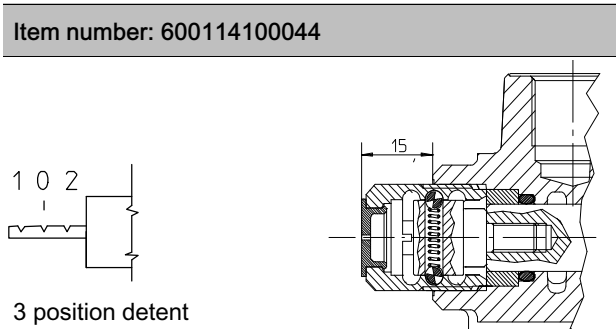
Preferred version with order code 15 = 96 - 210 bar is standard setting 150 bar

6.2 Spool positioners

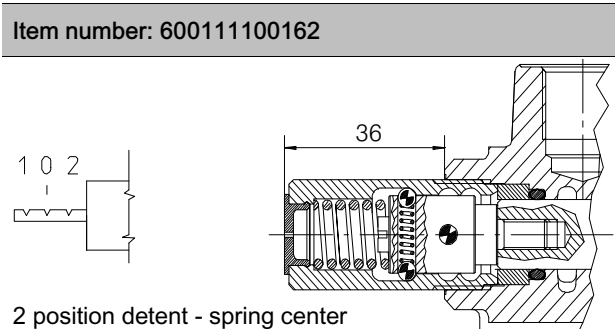
6.2.1 Type 01 (D-POS.01 DM140-DM11)



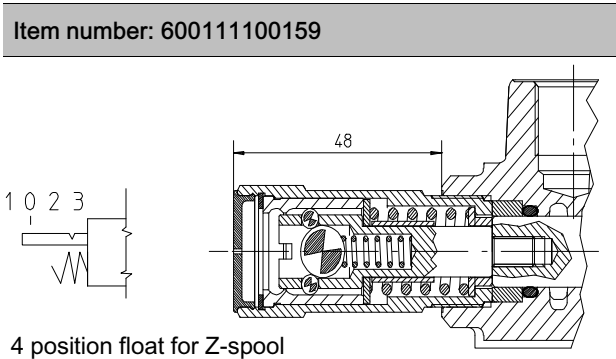
6.2.3 Type 03 (D-POS.03 DM140-DM11)



6.2.2 Type 02 (D-POS.02 DM140-DM11)

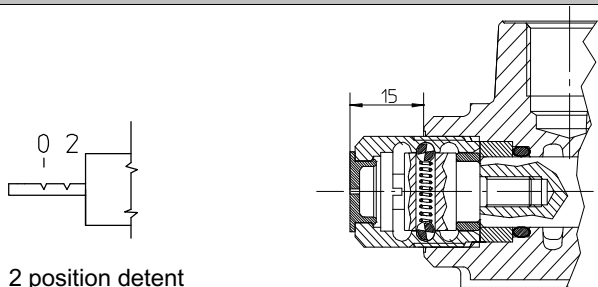


6.2.4 Type 04 (D-POS.04 DM140-DM11)



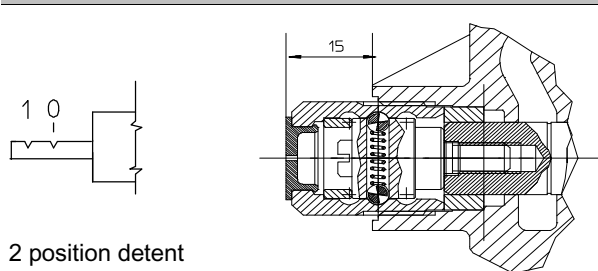
6.2.5 Type 05 (D-POS.05 DM140-DM11)

Item number: 600114100180



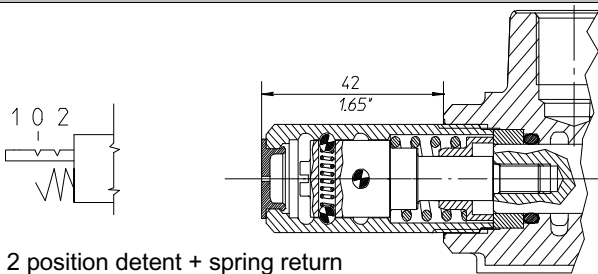
6.2.6 Type 07 (D-POS.07 DM140-DM11)

Item number: 600114100317



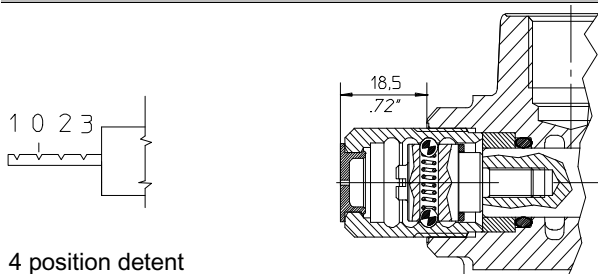
6.2.7 Type 20 (D-POS.20 DM140-DM11)

Item number: 600114100016



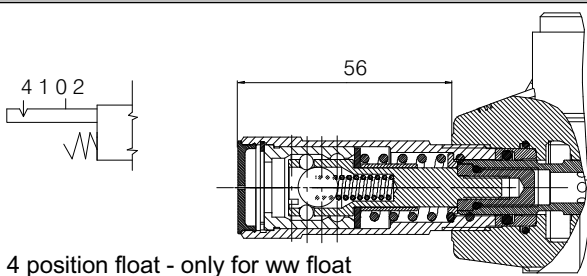
6.2.8 Type 38 (D-POS.38 DM140-DM11)

Item number: 600114100021



6.2.9 Type 240 (D-POS.240 DM140-DM11)

Item number: 600114100017



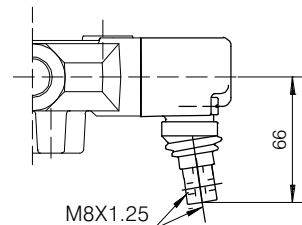
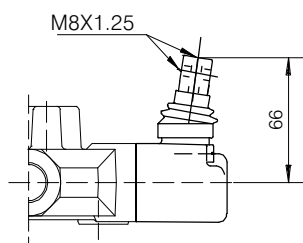
6.3 Spool types

Spool scheme	Spool features	Type	Item number
	4 way - 3 position A/B closed E open by pass	A (D-DM11P A SPOOL)	600112300007
	4 way - 3 position A/B-E closed	B (D-DM11P B SPOOL)	600112300008
	4 way - 3 position A/B to tank in neutral E open by pass	C (D-DM11P C SPOOL)	600112300009
	3 way - 3 position B closed E open by pass	G (D-DM11P G SPOOL)	600112300010
	3 way - 3 position A closed E open by pass	S (D-DM11P S SPOOL)	600112300011
	4 way - 4 position 4 th floating position spool can be used with standard body	Z (D-DM11P Z SPOOL)	600112300012
	4 way - 4 position 4 th floating position Spool requires body K04, positioner 240 and lever L192	WW (D-DM11P WW SPOOL)	600111100004

6.4 Hand lever fitting system

6.4.1 Type L100 = standard
Type L175 only vor Z spool application
Type L192 only for WW spool application

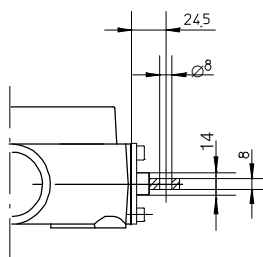
6.4.2 Type L300 = standard
Type L375 only vor Z spool application
Type L392 only for WW spool application



Order code:	D-L100-300M8	Item number:	600114100045
Order code:	D-L175-375M8	Item number:	600114100024
Order code:	D-L192-392M8	Item number:	600114100018

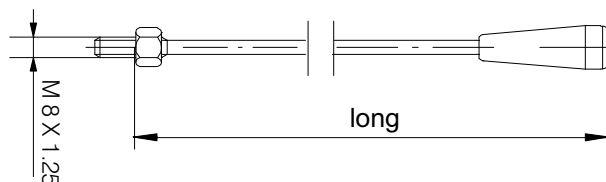
6.4.3 Type L55

Order code: D-L55D8 Item number: 600114100094



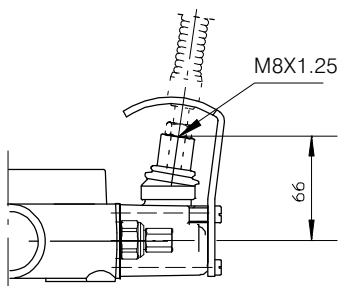
6.4.4 Available hand lever

- D-AL150M8: Item number 600909200018 (150mm)
- D-AL200M8: Item number 600909200023 (200mm)
- D-AL250M8: Item number 600909200024 (250mm)



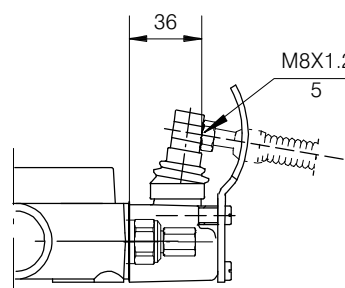
6.4.5 Type L140 safety hand lever

Order code: D-L140M8 Item number: 600114200910



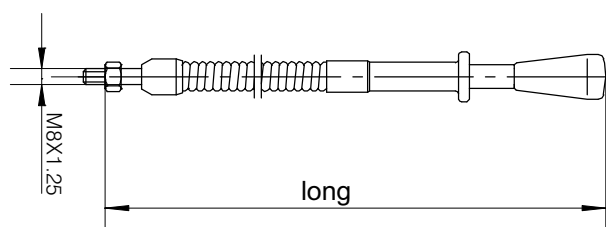
6.4.6 Type L150 safety hand lever

Order code: D-L150-350M8
Item number: 600114200019



6.4.7 Available safety hand lever

- D-AL014M8 (140mm long)
Item number 600909200025
- D-AL018M8 (180 mm long)
Item number 600909200026



7 Description of model code

	D-DM11P	2	K04	15	AAAA	01	L100	/ TC
Product type								
Number of spools								
Body type								
Pressure relief valve								
Spool type (for example AA for 2 spools and AAAAAA for 6 spools)								
Spool positioner								
Hand lever fitting system								
								Top coat finish after assembling (RAL9005)

IMPORTANT!

The hand lever must be ordered separately.

7.1 Ordering code monoblock

8 Fluid

D-DM11P directional control valves require fluid with a minimum cleanliness level of ISO 4406 code 19/17/14.

We recommend the use of fluids that contain anti-wear additives for mixed-friction operating conditions. Fluids without appropriate additives can reduce the service life of valves. The user is responsible for maintaining, and regularly checking the fluid quality.

9 Fluid cleanliness class

Cleanliness class (RK) onto ISO 4406

Code ISO 4406	Number of particles / 100 ml		
	≥ 4 µm	≥ 6 µm	≥ 14 µm
23/21/18	8000000	2000000	250000
22/20/18	4000000	1000000	250000
22/20/17	4000000	1000000	130000
22/20/16	4000000	1000000	64000
21/19/16	2000000	500000	64000
20/18/15	1000000	250000	32000
19/17/14	500000	130000	16000
18/16/13	250000	64000	8000
17/15/12	130000	32000	4000
16/14/12	64000	16000	4000
16/14/11	64000	16000	2000
15/13/10	32000	8000	1000

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Classification: 430.310...