



**Nordhydraulic**  
HYDAC INTERNATIONAL

## Selector valve RV 713



Solutions that power your visions

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**Data sheet**  
**Selector valve / RV 713**

### Make use of the Nordhydraulic expertise

Our skilled and experienced design and application engineers are at your disposal, helping you to specify the valve configuration that meets your application requirements.

### Key valve features

RV 713 is a 3 way selector valve designed for flows up to 160 l/min and depending of application and configuration also for higher flows. The working pressure is max 350 bar.

Spools, both 2 and 3 positional, are available in many various types including spools with built in check valves. Standard spools are designed with under lap.

A wide range of spool controls, both for manual operation as well as for remote control, are available.

### Applications

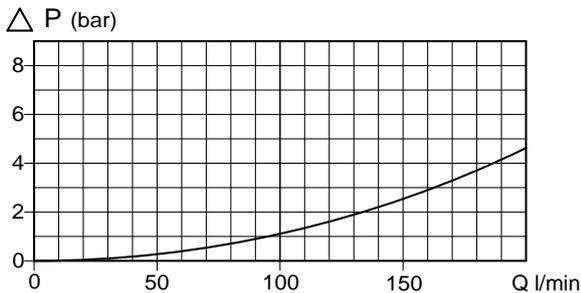
Typical applications for RV 713 are tipping gears and demontable bodies equipment vehicles.

The configuration with check valve spools are typical used as limit switch on tipping gears.

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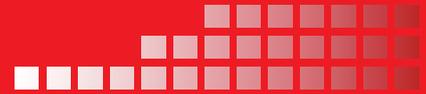
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## Technical data - Pressure drop



Oil temperature/viscosity for all graphs: + 50°C / 32 cSt

Pressure drop A - B, A - C



# Technical data - Dimensions, weight

## Pressures / flow

Max. system pressure\* ..... 350 bar (35,0 MPa)

Rated flow ..... 160 l/min

\* depending on application

Recommended contamination level at normal duty: equal to or better than 18/14 as per ISO 4406.

Hydraulic fluid viscosity range at continuous operation: 10-400 mm<sup>2</sup>/s(cSt). Higher viscosity allowed at start up.

Mineral oil and synthetic oil based on mineral oil are recommended.

## Further data

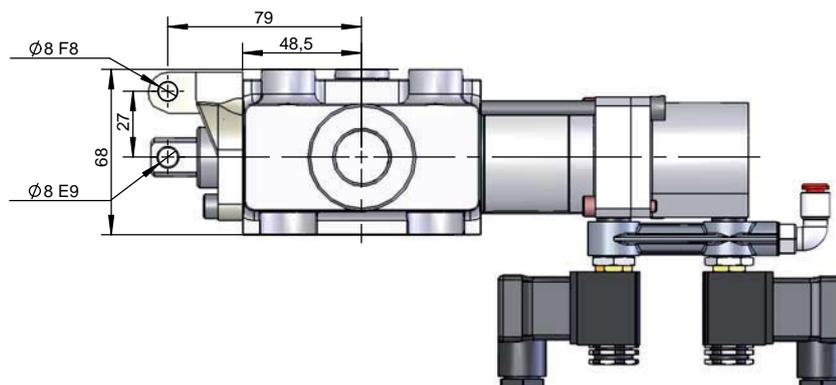
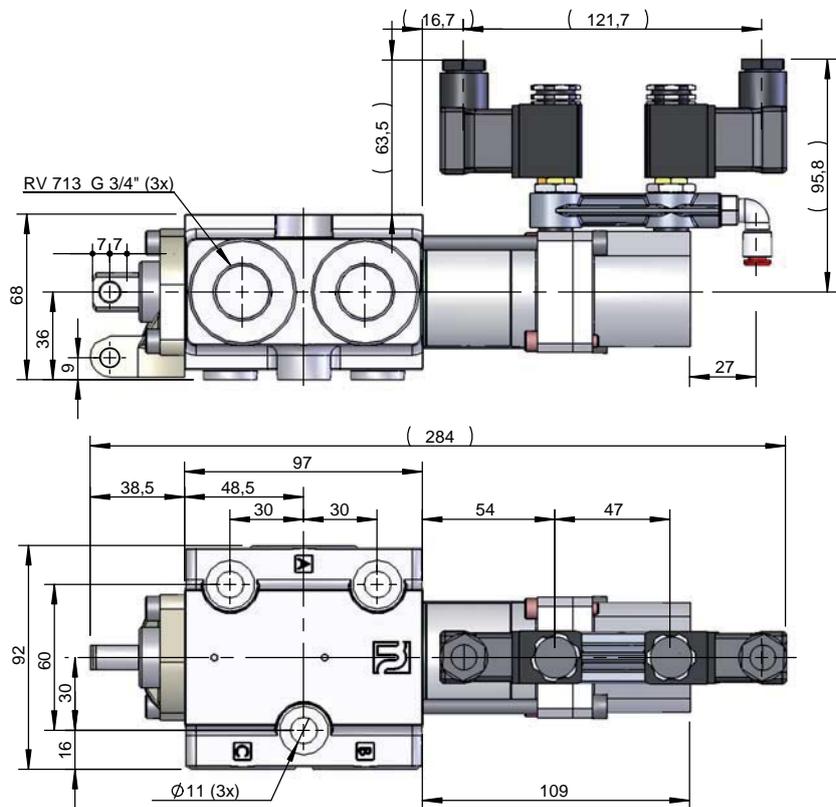
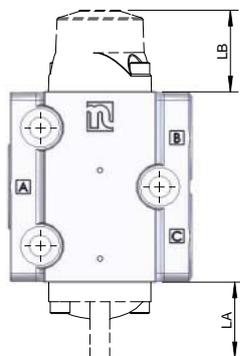
Operating force at the spool ..... 400 N

Max. hydraulic fluid temperature range for continuous operation: -15°C - + 80°C.

Manual operated valves with spring centered or spring returned spool controls are not recommended for continuous pressure above 250 bar.

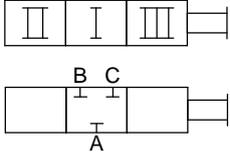
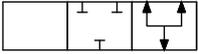
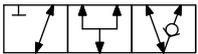
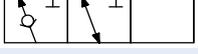
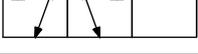
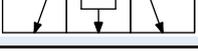
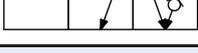
Spool leakage at 100 bar, 32 cSt and 40°C: < 40 cm<sup>3</sup>/min.

Weight: 3 kg



Type	LA mm	LB mm
9	41,6	
91	41,6	
92	41,6	
93	41,6	
94	41,6	
10	41,6	
21	41,6	
22	41,6	
P - P4	109	
EP	142	
M19RV		38,5
M12		89,5

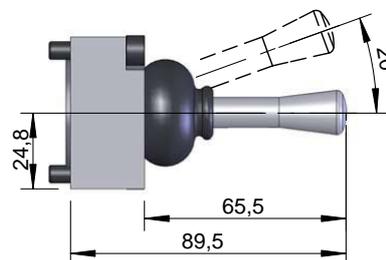
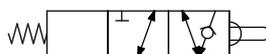
# Spools

	Function	Code
	Float spool, 2-position	1A
	Spool with built in check valve	2B
	Spool with built in check valve, shall be used with the valve houses C-port plugged	2C
	Selector spool, 2-position	3A
	Selector spool, with float function in position I, 3-position	4A
	Spool with built in check valve, normally B-port plugged. For use with bracket M12 and spool control 92B	4C
	Selector spool with float in position III	5A
	Selector spool with all ports closed in position I	7A

# Brackets

## Bracket M12

Bracket including manoeuvre pin. To be used together with Spool 4C and Spool control 92B.



## Bracket M19RV

Bracket for 2 or 3 positional spools with standard spool end.





# Spool controls

## Spool control 9

Spring centering.



## Spool control 91

Spring return from position II to position I.



## Spool control 92

Spring return from position III to position I.



## Spool control 92B

Spring return from position III to position I. OBS! B port must be plugged.



## Spool control 93

Spring return from position I to position II.



## Spool control 94

Spring return from position I to position III.



## Spool control 10

Detents in positions I, II and III.



## Spool control 21

Detents in positions I and II.



## Spool control 22

Detents in positions I and III.



## Spool control P

Pneumatic on/off spring centered\*.



## Spool control P1

Pneumatic on/off spring return from position II to position I\*.



## Spool control P2

Pneumatic on/off, spring return from position III to position I\*.



## Spool control P3

Pneumatic on/off, spring return from position I to position II\*.



## Spool control P4

Pneumatic on/off, spring return from position I to position III\*.



## Spool control EP24

Electro-pneumatic on/off 24 V, spring centered\*\*.



## Spool control EP12

Electro-pneumatic on/off 12 V, spring centered\*\*.



## Spool control EP124

Electro pneumatic on/off, 24 V, spring return from position II to position I \*\*/\*\*.



## Spool control EP112

Electro pneumatic on/off, 12 V, spring return from position II to position I \*\*/\*\*.



## Spool control EP224

Electro pneumatic on/off, 24 V, spring return from position III to position I\*\*/\*\*.



## Spool control EP212

Electro pneumatic on/off, 12 V, spring return from position III to position I\*\*/\*\*.



## Spool control EP324

Electro pneumatic on/off, 24 V, spring return from position I to position II\*\*/\*\*.



## Spool control EP312

Electro pneumatic on/off, 12 V, spring return from position I to position II\*\*/\*\*.



## Spool control EP424

Electro pneumatic on/off, 24 V, spring return from position I to position III\*\*/\*\*.



## Spool control EP412

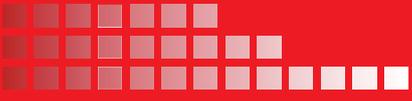
Electro pneumatic on/off, 12 V, spring return from position I to position III\*\*/\*\*.



\*\*

Power consumption.....	4,8 W
Rated voltage .....	12 and 24 V
Max voltage variation .....	+/- 10%
Duty factor .....	100%
Connection .....	according to EN175301-803/B
Protection class.....	IP65

\* Connection 1/8" BSP, max pneumatic supply pressure 10 bar.



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