



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

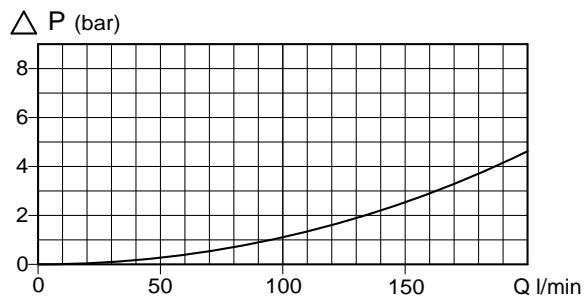
Typical applications for RV 713 are tipping gears and demontable bodies equipment vehicles.

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

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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 mm²/s(cSt). Higher viscosity allowed at start up.

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

Further data

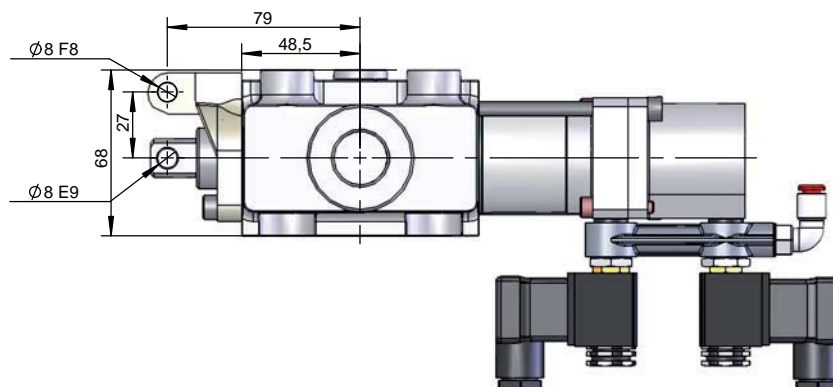
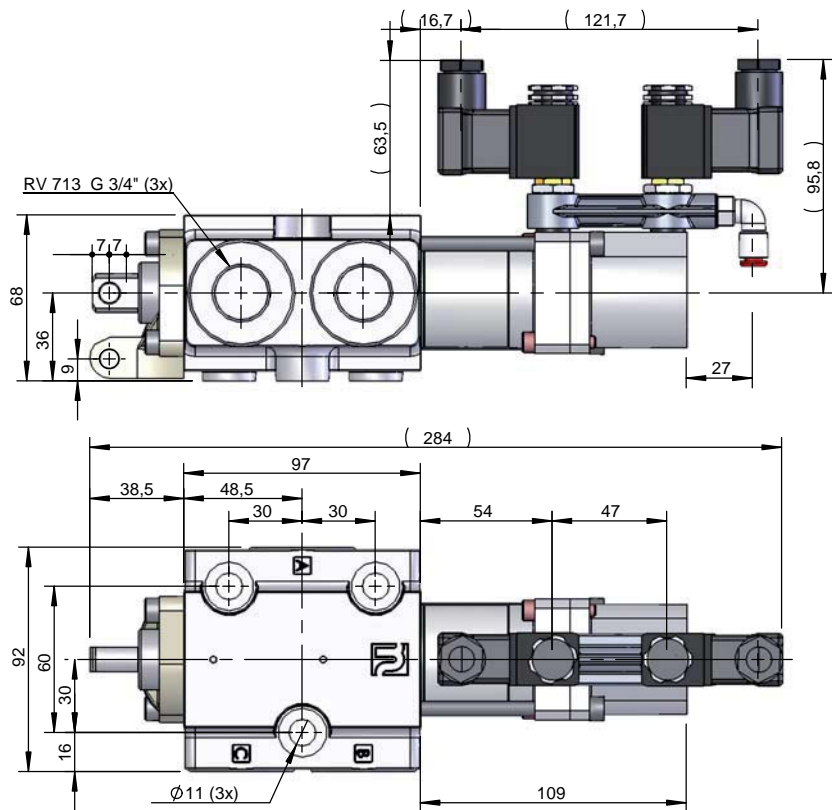
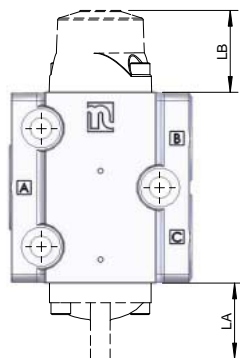
Operating force at the spool 400 N

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.

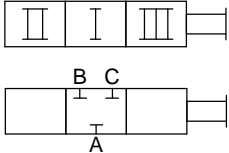
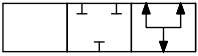
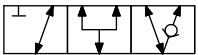


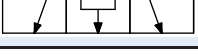



Spool leakage at 100 bar, 32 cSt and 40°C: < 40 cm³/min.

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

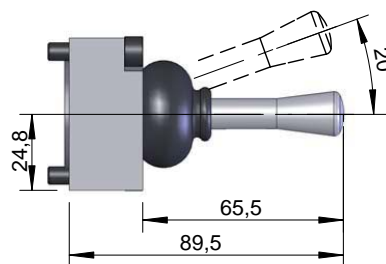
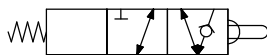
Spools

	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.



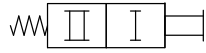
Spool control 92B

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*.



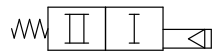
Spool control P2

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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