

Selector Valve RV 713



Key valve features

RV 713 is a 3 way selector valve designed for flows up to 42gpm (160 Lpm) and max. operating pressures up to 3,625 psi (250 bar).

Spools, both 2 and 3 position, are available in 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 demountable bodies.

The configuration with check valve spools are typical used as a limit switch on trailers.

Technical data

Pressures / Flows

Max. operating pressure per port:

A, B, C:	3625 psi	250 bar
Typical Nominal Inlet Flow:	42 gpm	160 Lpm
Fluid temperature range:	5°F up to 176°F	-15°C up to +80°C

¹ Manual operated valves with spring centered or spring returned spools are only recommended when switching to neutral always takes place during pressure unloaded conditions.

Further data

Spool control force:

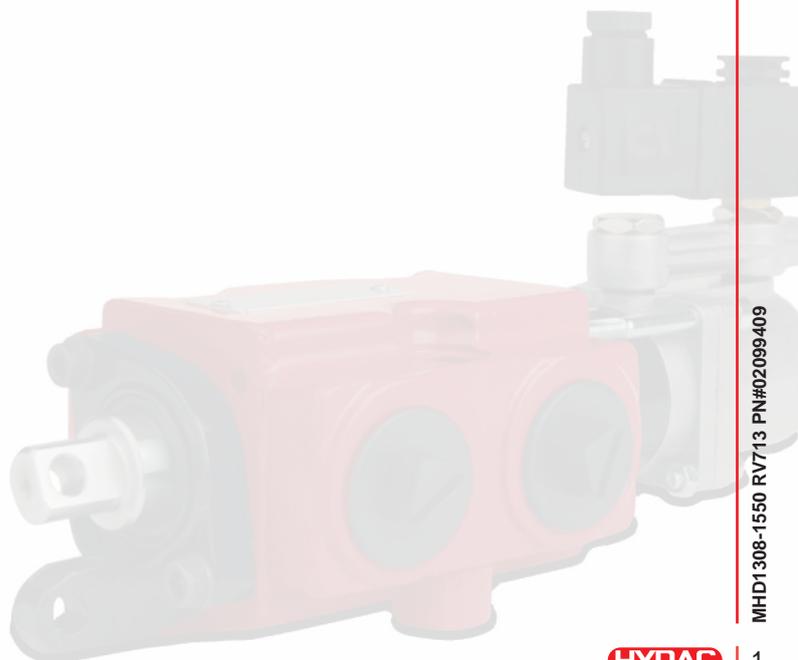
Neutral position:	63 lbs	280 N
Max spool stroke:	90 lbs	400 N
Permissible contamination level:	Equal or better than 20/18/14 as per ISO 4406	
Viscosity range:	10 – 400 cSt	Higher viscosity allowed at start up

Leakage A, B → T at 1,500 psi, 32 cSt and 104°F < 40 cc/min (100 bar, 32 cSt and 40°C)

Pressure fluid: Mineral oil and synthetic oil based on mineral oil HL, HLP according to DIN 51524

Higher values are possible, depending on application. For applications with demands that exceed stated data above, please contact us for consideration.

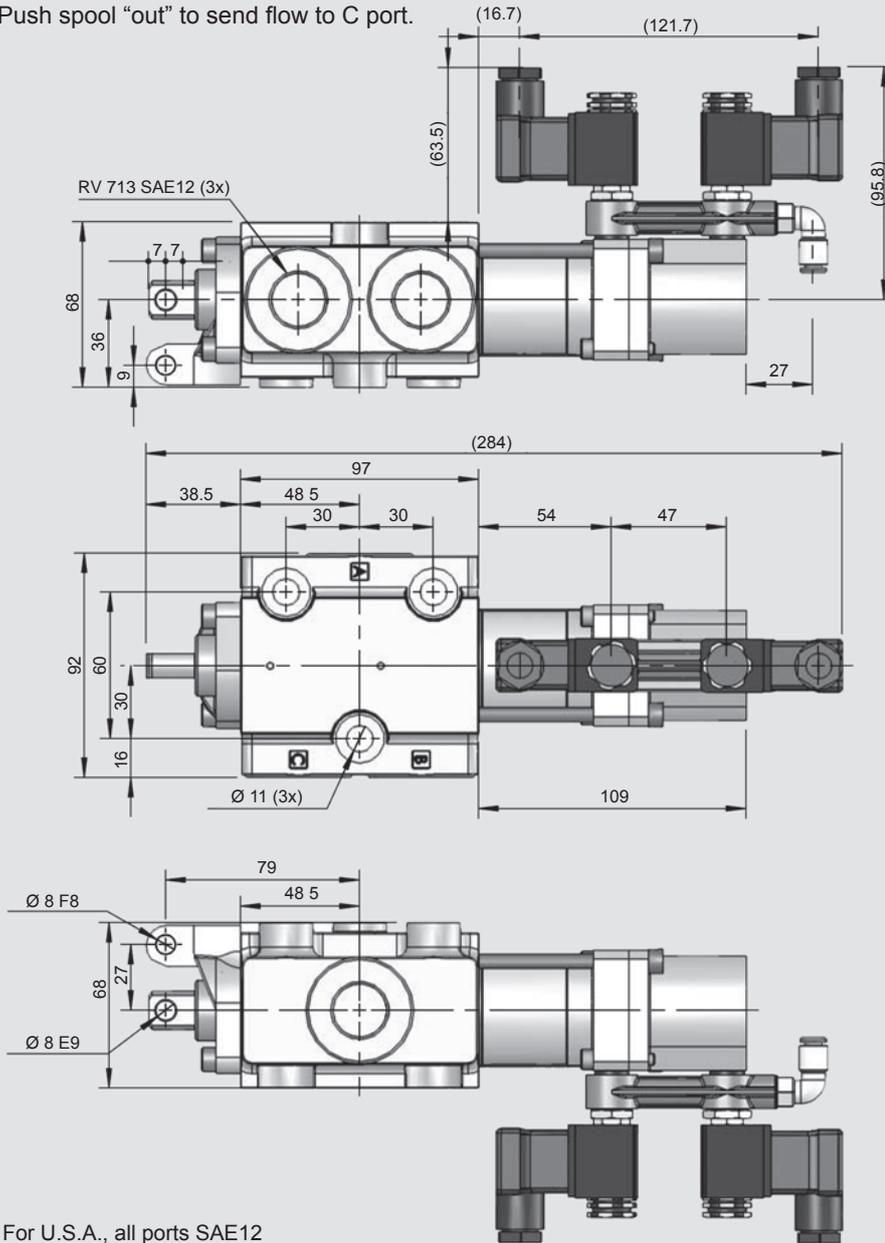
MTTFd value after consultation with HYDAC.



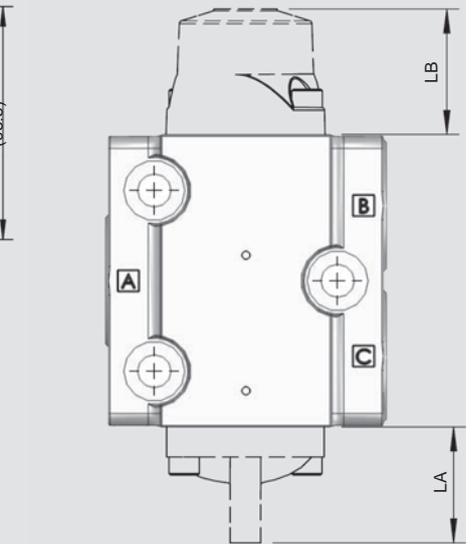
Dimensions and weight

Push spool "in" to send flow to B port.

Push spool "out" to send flow to C port.



For U.S.A., all ports SAE12

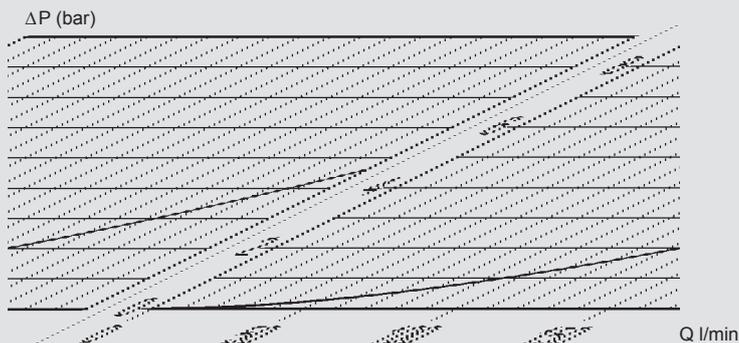


Weight 6.5 lbs 3 kg

Type	LA (in)	LA (mm)	LB (in)	LB (mm)
9	1.6	41.6		
91	1.6	41.6		
92	1.6	41.6		
93	1.6	41.6		
94	1.6	41.6		
10	1.6	41.6		
21	1.6	41.6		
22	1.6	41.6		
P-P4	4.3	109.0		
EP	5.6	142.0		
M19RV			1.5	38.5
M12			3.5	89.5

Pressure drop

Oil temperature / viscosity for all graphs: +40 °C / 32 cSt



Pressure drop A - B, A - C

Spool controls

Spool control 9 Spring centering		Spool control EP24 Electro-pneumatic on/off 24 V, spring centered**	
Spool control 91 Spring return from position II to position I		Spool control EP12 Electro-pneumatic on/off 12 V, spring centered**	
Spool control 92 Spring return from position III to position I		Spool control EP124 Electro pneumatic on/off, 24 V, spring return from position II to position I**	
Spool control 92B Spring return from position III to position I. OBS! B port must be plugged		Spool control EP112 Electro pneumatic on/off, 12 V, spring return from position II to position I**	
Spool control 93 Spring return from position I to position II		Spool control EP224 Electro pneumatic on/off, 24 V, spring return from position III to position I**	
Spool control 94 Spring return from position I to position III		Spool control EP212 Electro pneumatic on/off, 12 V, spring return from position III to position I**	
Spool control 10 Detents in positions I, II and III		Spool control EP324 Electro pneumatic on/ off, 24 V, spring return from position I to position II**	
Spool control 21 Detents in positions I and II		Spool control EP312 Electro pneumatic on/off, 12 V, spring return from position I to position II**	
Spool control 22 Detents in positions I and III		Spool control EP424 Electro pneumatic on/off, 24 V, spring return from position I to position III**	
Spool control P Pneumatic on/off spring centered*		Spool control EP412 Electro pneumatic on/off, 12 V, spring return from position I to position III**	
Spool control P1 Pneumatic on/off spring return from position II to position I*		* Connection G 1/8" BSP, max pneumatic supply pressure 150 psi (10 bar)	** 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
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*			

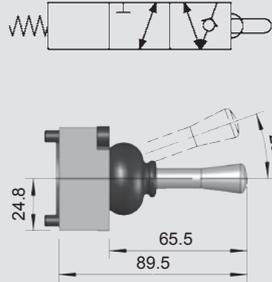
Spools

	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 housing 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 maneuver 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



Handles

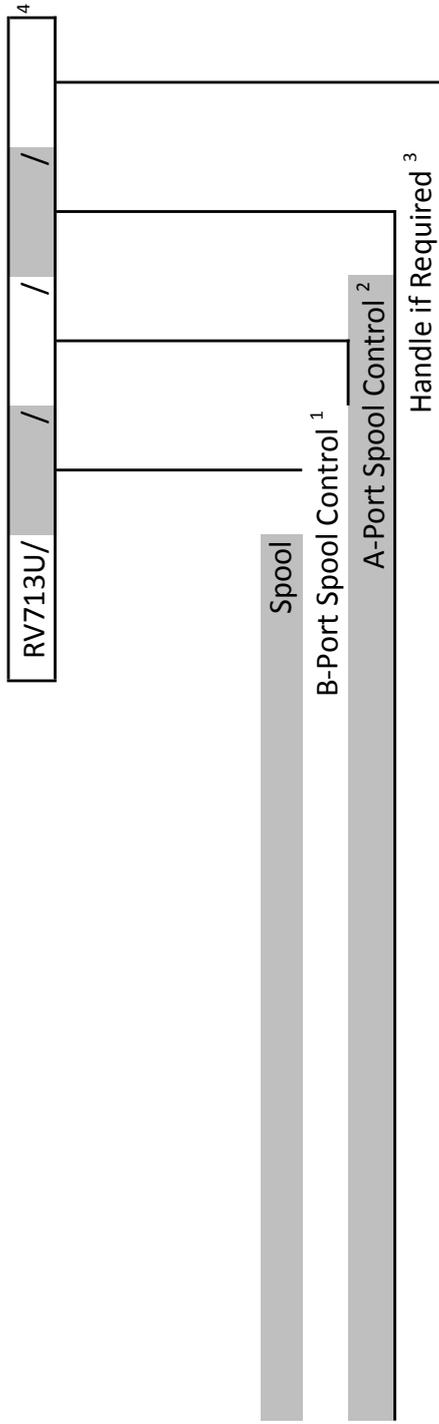
Handles

M262H - Handle mounts in a horizontal position on valve.

M200V - Handle mounts in a vertical position on valve.



Ordering Details RV713 Selector Valve



1] Typical location for centering kit

2] Typical location for handle

3] Handles shipped separately

4] Code should include the "/" as shown.
i.e. RV713/1A/22/M19RV

Application Information

OEM:

Machine Type:

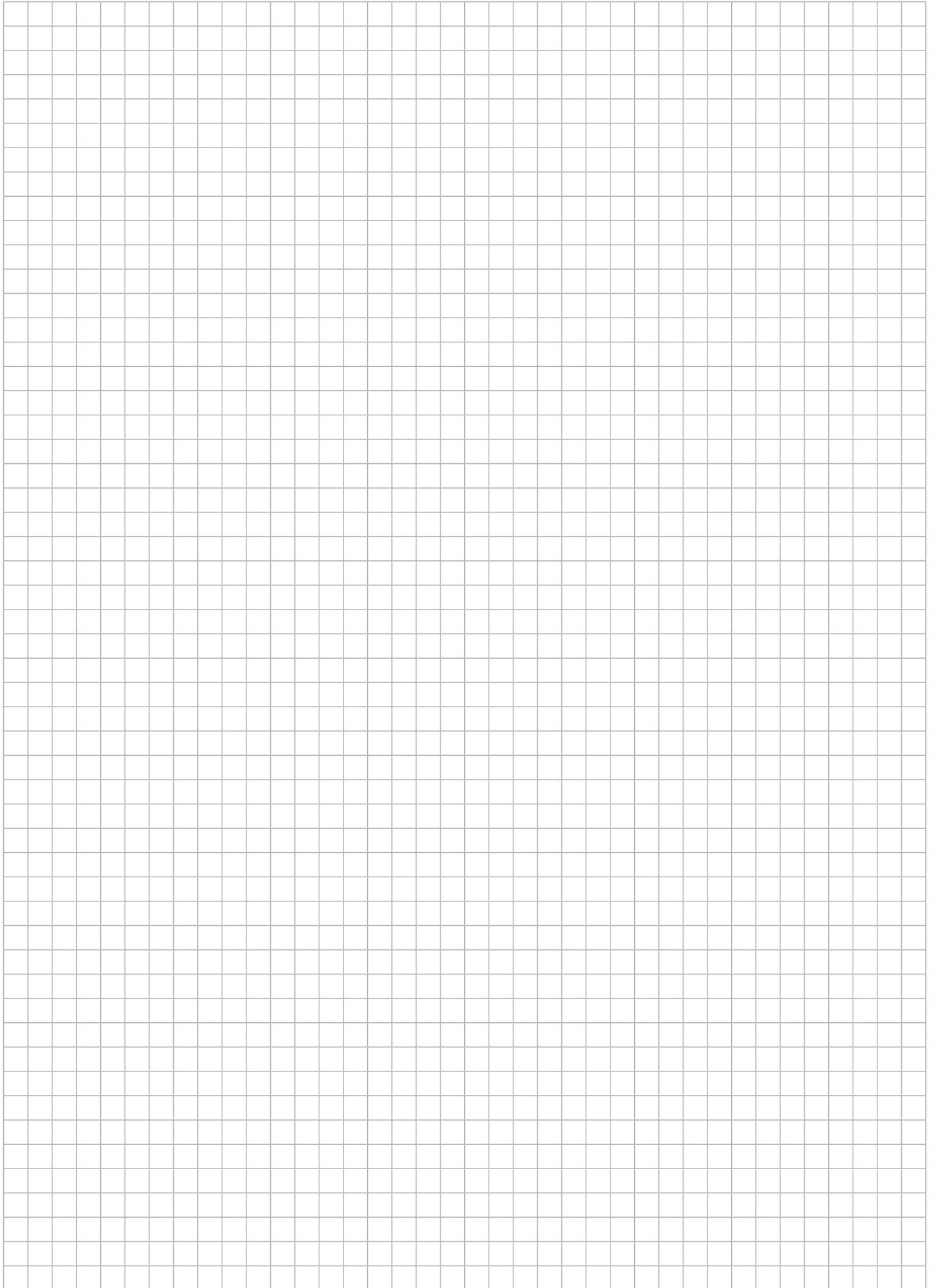
Pump Type:

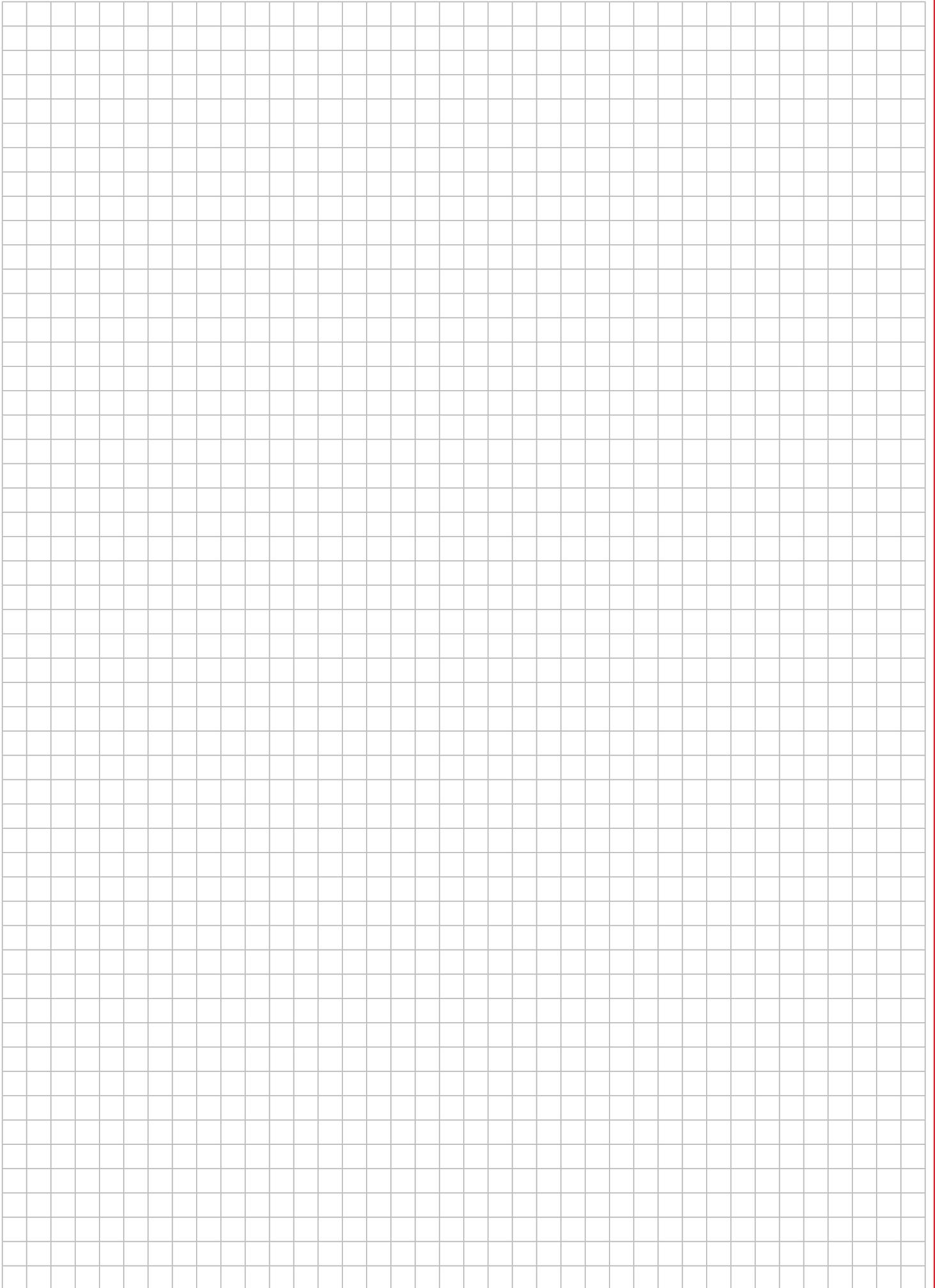
Pump Flow:

System Pressure:

EAU:

Other Information:





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Note

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.