

GENERAL DESCRIPTION

List: RH10-7F-1-Oct 2015

✓ 4/3- and 4/2- way directional control valves with manual operation

✓ Reliability and long life

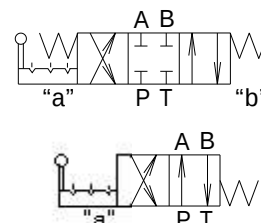
✓ Mounting surface CETOP5 (NG10)

The RH10...7F... valves consist of a spool, housing, springs and manual control unit. They are used to control the start, stop and direction of flow.

This model is designed with two-spring centered spool about 4/3- and 4/2- valves. The housing has 5-chambers. There are two possible versions of valve - with detent and without detent.

The valve location during assembly is of minor importance, but the horizontal position is generally recommended.

RH10...7F...

Symbol

ORDERING CODE

RH	10	...	7	F	...	...
Directional control valve				Backing of the housing		
Nominal size				N - normal T - tropical		
Functional symbol		see page 2/4		Detent		
Type of control:		- manual		Omit - without detent D - with detent		
				Modification		

TECHNICAL DATA

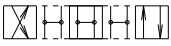
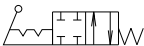
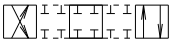
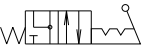
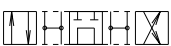
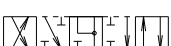
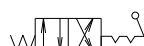
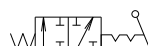
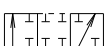
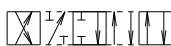
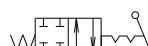
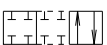
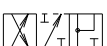
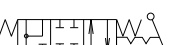
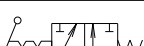
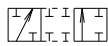
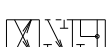
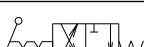
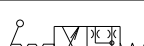
DATA	UNIT	VALUE/RANGE
Weight	kg	5,1
Max. pressure port P, A & B port T	MPa	32 2,5
Rated flow (at $D_p=0,1\text{MPa}$)	l/min	15...45
Angular movement	°	± 29
Actuating force	N	30

We reserve the right to change specifications without notice.

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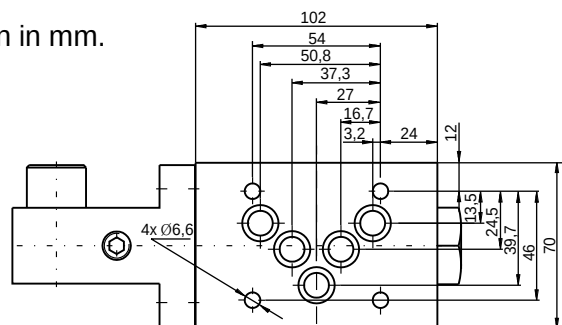
FUNCTIONAL SYMBOLS

DESIG- NATION	SYMBOL	INTERMEDIATE	DESIG- NATION	SYMBOL	INTERMEDIATE
00			27		
01			28		
02			32		
04			33		
05			35		
06			36		
10			39		
<u>11</u>			40		
12			41		
13			42		
14			45		
16			61		
17			62		
18			64		
21			68		
24			70		
26			83		

Other symbols on request.

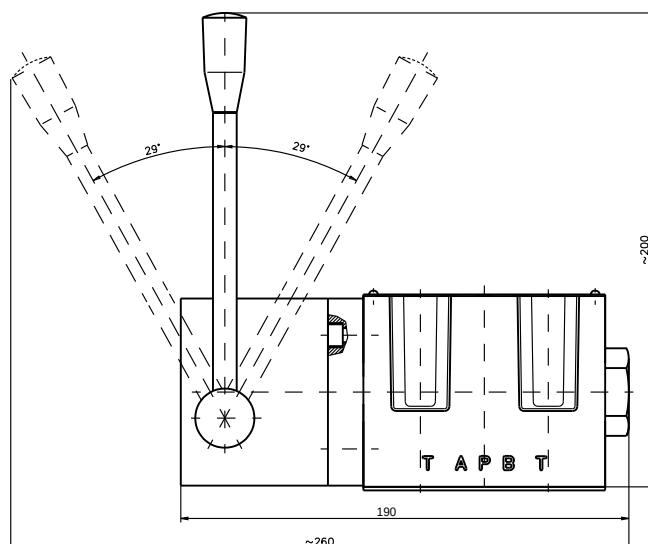
DIMENSIONS

All dimensions are shown in mm.

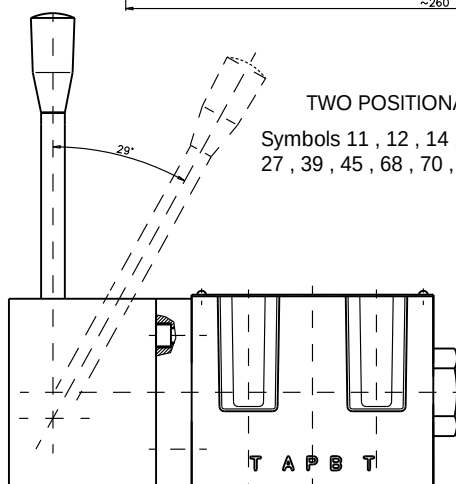
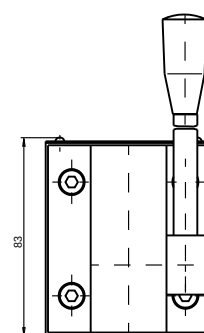


THREE POSITIONAL

Symbols 00, 01, 02, 04, 05, 06, 11, 12, 14, 17, 18, 21, 24, 26, 27, 39, 40, 41, 45, 68, 70, 83(except 61 & 62)



For three positional valves symbols 61 and 62 the operator is at side "b".

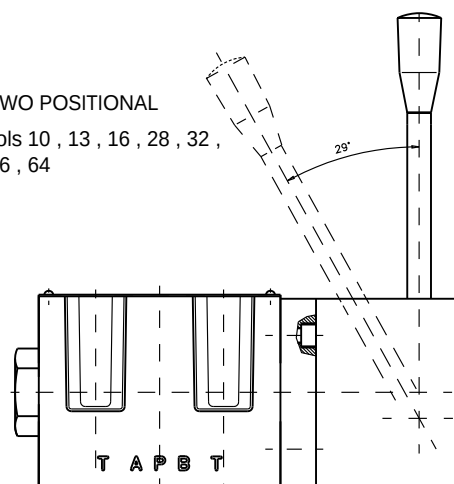


TWO POSITIONAL

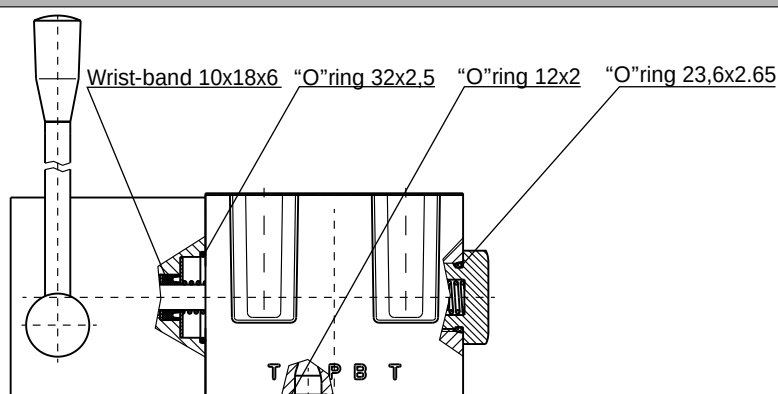
Symbols 11, 12, 14, 17, 24, 27, 39, 45, 68, 70, 83

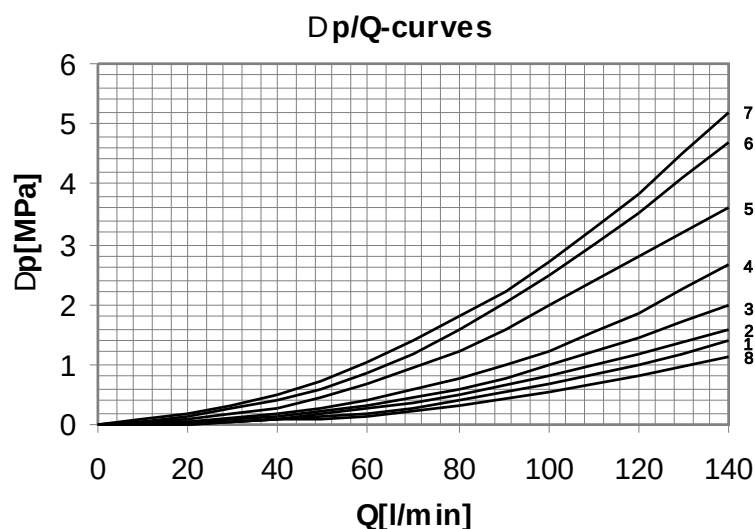
TWO POSITIONAL

Symbols 10, 13, 16, 28, 32, 33, 36, 64



SEALS

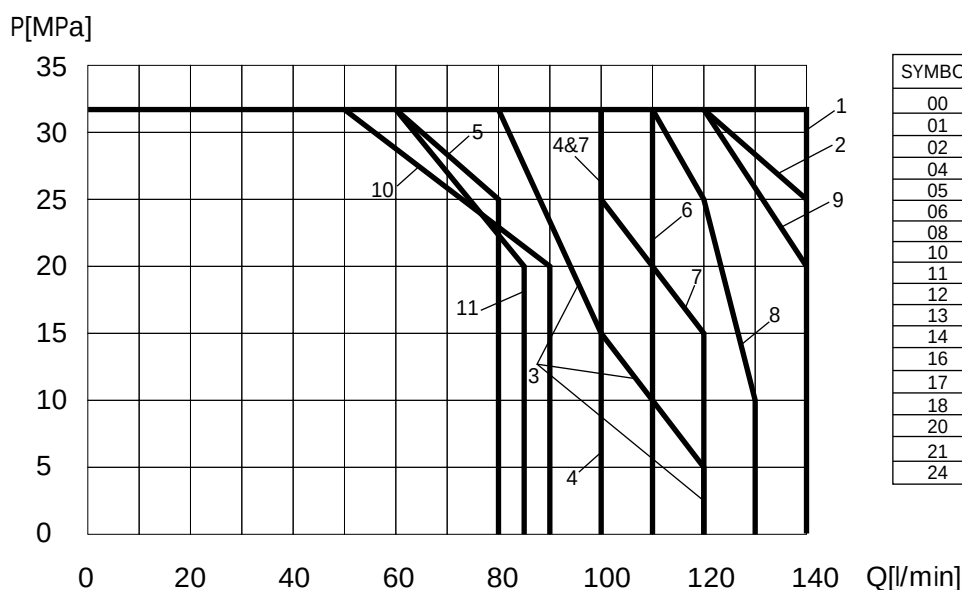


CHARACTERISTICS
Dp / Q


SYMBOL	CURVE				
	P>A	P>B	A>T	B>T	P>T
00	3	3	8	8	4
01	3	3	1	1	
02	6	6	5	5	4
04	3	3	2	2	
05	1	1	1	8	
06	2	2	7	5	2
08	2	2	1	1	
10	2	2	1	1	
11	2	2	1	1	
12	2	2	1	1	
13	2	2			
14	6			5	4
16	2			1	
17		1	1		
18	2	2	1	1	
20	3	3	2	2	
21	2	2	1	1	
24	3	3	2	2	
26	3	3	2	1	
27	3			1	
28	3	3	2	2	
32	4	4			
33		3	8		4
36	4	4	2	2	
39	4	4	2	2	
40		4	1		
41		4	8		
42	3	3	2	1	
45		2	1		
61	4			8	
62	4			1	
64	2			1	
68	4	4			
70	3	3	2	1	
83		2	1		

p / Q

The operating limit of hydraulic power shown here is for applications with two directions of flow (e.g. from P to B and simultaneously from A to T). If the valve is with one direction passage only (e.g. from P to B and with blocked port A), the operating limit may considerably be reduced. The performance limits are measured with hydraulic oil 35 ± 5 cSt, temperature 50°C and supply voltage $0,9U_N$.



SYMBOL	CURVE	SYMBOL	CURVE
00	1	26	8
01	2	27	1
02	11	28	9
04	9	32	3
05	1	33	1
06	2	36	5
08	2	39	5
10	1	40	6
11	1	41	7
12	1	42	8
13	2	45	2
14	11	61	7
16	2	62	6
17	1	64	2
18	2	68	3
20	2	70	8
21	4	83	2
24	9		