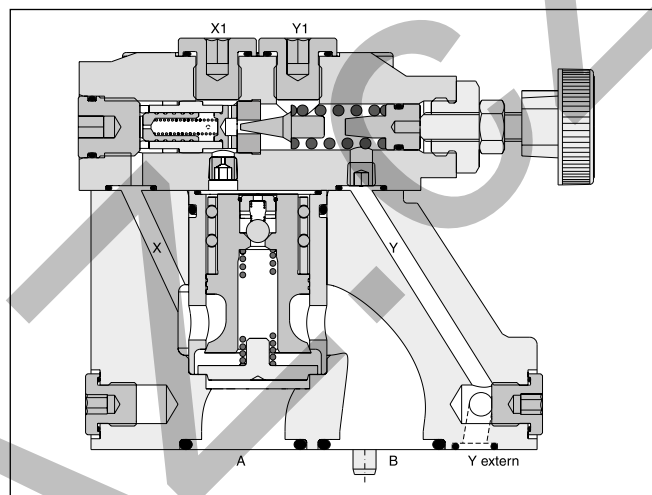
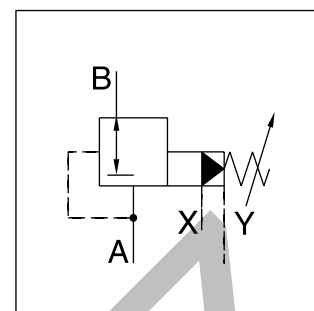


Features

- Pilot operated with manual adjustment
- Subplate mounting acc. to ISO 5781
- Normally closed to avoid unintended motion
- 3 pressure stages
- 3 adjustment modes:
 - hand knob
 - acorn nut with lead seal
 - cylinder lock



R **4** **R** **-** **5** **9** **B**

Pressure valve **Interface** **Reducing function** **Nominal size** **Max. pressure (350 bar)** **Pilot ports G1/4"** **Pressure stages** **Adjustment** **Pilot oil** **Design series** **Seals** **Modifications**

Code	Interface
4	Subplate mounting ISO 5781

Code	Nominal size
03	NG10
06	NG25
10	NG32

Code	Pressure stages ¹⁾
1	up to 105 bar
3	up to 210 bar
5	up to 350 bar

Code	Pilot oil
1	Internal
2	External

Code	Seals
1	NBR
5	FPM

R4R UK.indd 13.10.22

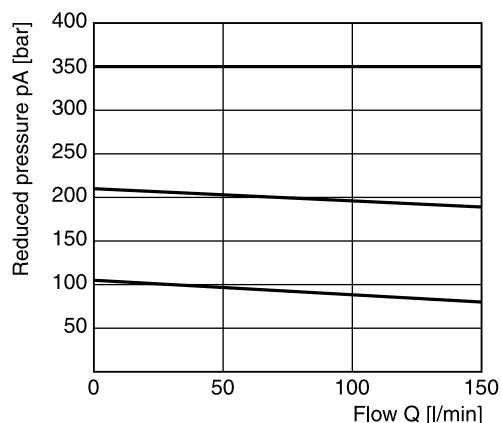
Technical Data

General				
Nominal size		NG10	NG25	NG32
Interface		Subplate mounting acc. ISO 5781		
Mounting position		Unrestricted, horizontal mounting preferred		
Ambient temperature [°C]		-20...+60		
MTTF _D value [years]		75		
Weight [kg]		2.7	4.5	6.0
Hydraulic				
Max. operating pressure [bar]		Ports A, B and X 350, port Y depressurized		
Pressure stages [bar]		105, 210, 350		
Nominal flow [l/min]		150	350	500
Fluid		Hydraulic oil according to DIN 51524		
Viscosity, permitted recommended	[cSt] / [mm²/s]	20 ... 400		
	[cSt] / [mm²/s]	30 ... 80		
Fluid temperature [°C]		-20...+70 (NBR: -25...+70)		
Filtration		ISO 4406; 18/16/13		

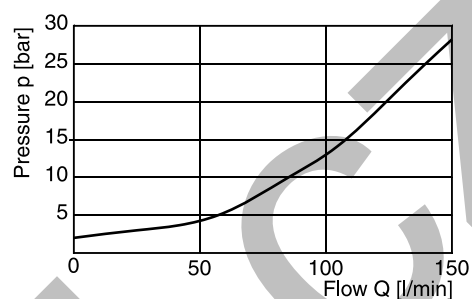
4

Reduced pressure pA versus flow Q

R4R03 ¹⁾

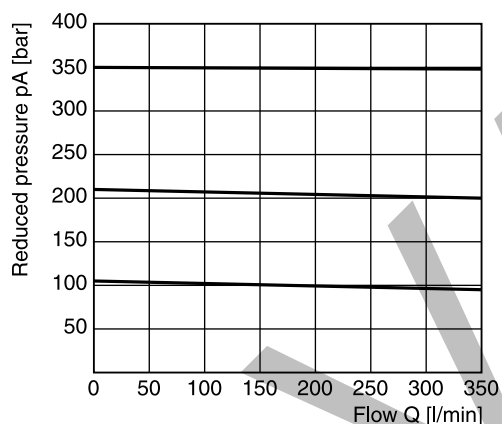


Minimum pressure curve

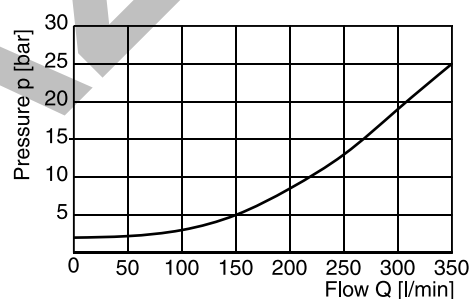


Reduced pressure pA versus flow Q

R4R06 ¹⁾

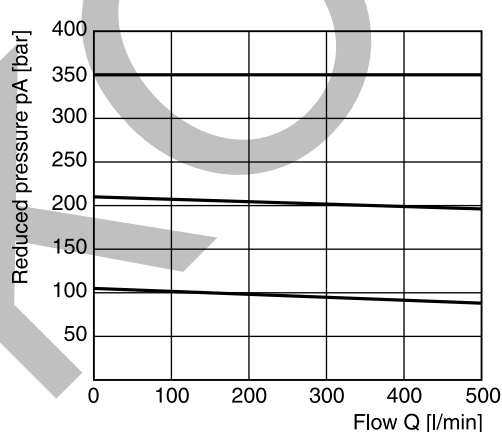


Minimum pressure curve

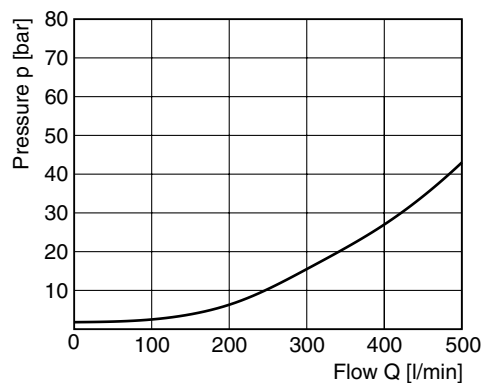


Reduced pressure pA versus flow Q

R4R10 ¹⁾

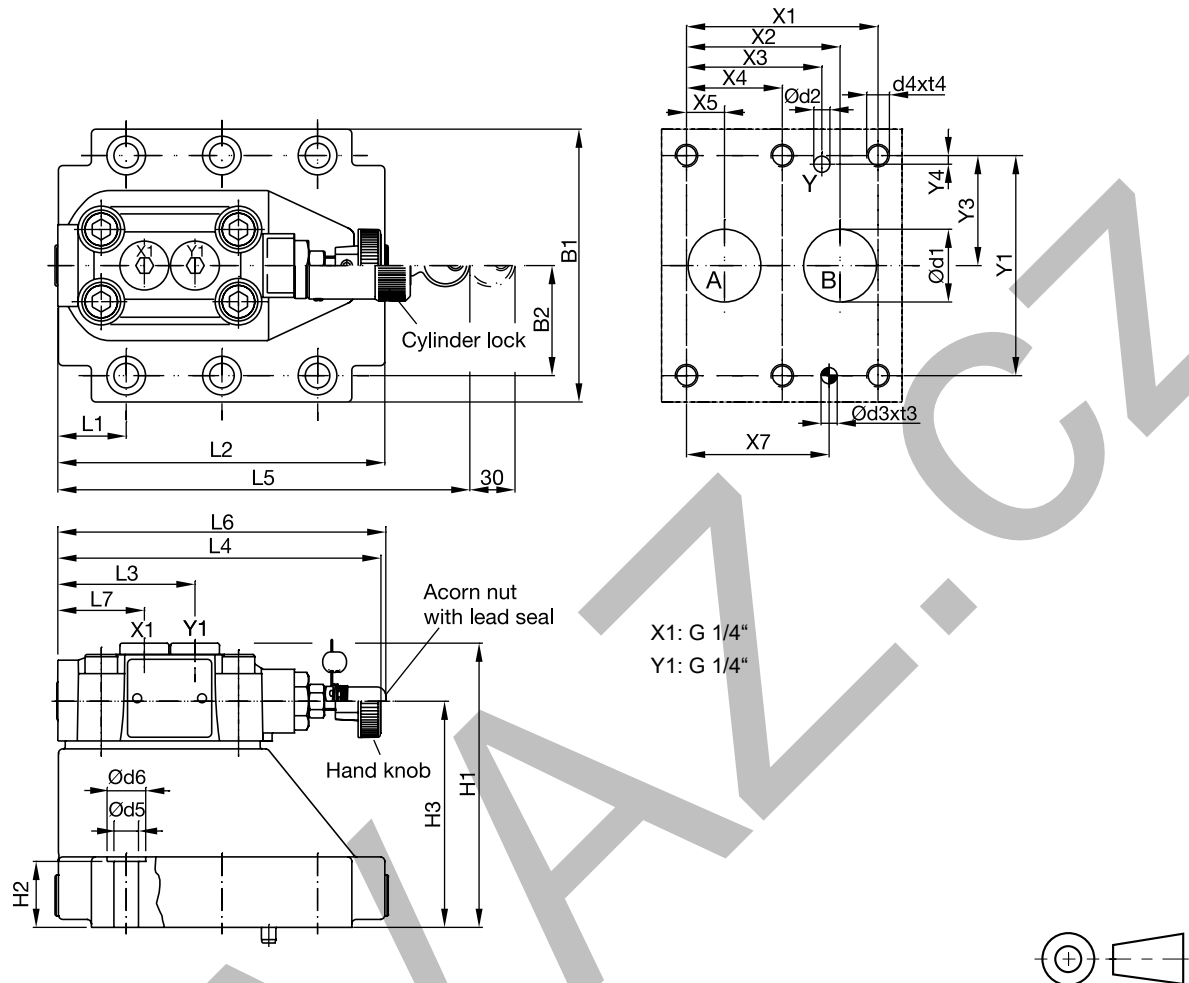


Minimum pressure curve



All characteristic curves measured with HLP46 at 50 °C.

¹⁾ Measured at 350 bar primary pressure pB.



NG	ISO-code	x1	x2	x3	x4	x5	x6	x7	y1	y2	y3	y4	y5	y6
10	5781-06-07-0-00	42.9	35.8	21.5	—	7.2	—	31.8	66.7	—	33.4	7.9	—	—
25	5781-08-10-0-00	60.3	49.2	39.7	—	11.1	—	44.5	79.4	—	39.7	6.4	—	—
32	5781-10-13-0-00	84.2	67.5	59.5	42.1	16.7	—	62.7	96.8	—	48.4	3.8	—	—

Tolerance for all dimensions ± 0.2

NG	ISO-code	B1	B2	H1	H2	H3	H4	H5	H6	L1	L2	L3	L4	L5	L6	L7
10	5781-06-07-0-00	87.3	33.35	87	21	62.5	—	—	—	25	90.8	60.8	143	181	144.8	38.6
25	5781-08-10-0-00	105	39.7	111.5	29	87	—	—	—	30.9	123	60.8	143	181	144.8	38.6
32	5781-10-13-0-00	120	48.4	124	30	99.5	—	—	—	29.8	143.5	60.8	143	181	144.8	38.6

NG	ISO-code	d1max	d2max	d3	t3	d4	t4	d5	d6	Subplate ¹⁾
10	5781-06-07-0-00	15	7	7.1	8	M10	16	10.8	17	SPP 3M6B 910
25	5781-08-10-0-00	23.4	7.1	7.1	8	M10	18	10.8	17	SPP 6M8B 910
32	5781-10-13-0-00	32	7.1	7.1	8	M10	20	10.8	17	SPP 10M12B 910

NG	Bolt kit			Kit		Surface finish
				NBR	FPM	
10	BK505	4x M10x35 ISO 4762-12.9	63 Nm ± 15 %	S26-58507-0	S26-58507-5	
25	BK485	4x M10x45 ISO 4762-12.9	63 Nm ± 15 %	S26-58475-0	S26-58475-5	
32	BK506	6x M10x45 ISO 4762-12.9	63 Nm ± 15 %	S26-58508-0	S26-58508-5	

¹⁾ Details see chapter 12, series SPP.