

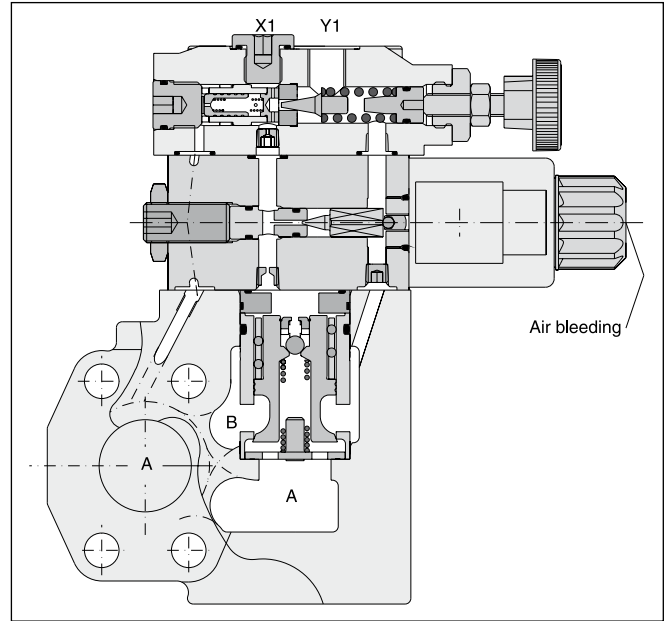
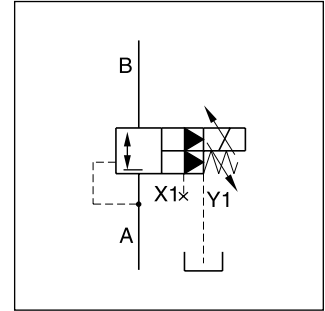
Characteristics / Ordering Code

Proportional pressure reducing valves series R5R*P2 are based on the mechanically adjusted series R5R. The additional proportional unit between the mechanical pilot valve and the main stage allows continuous pressure adjustment.

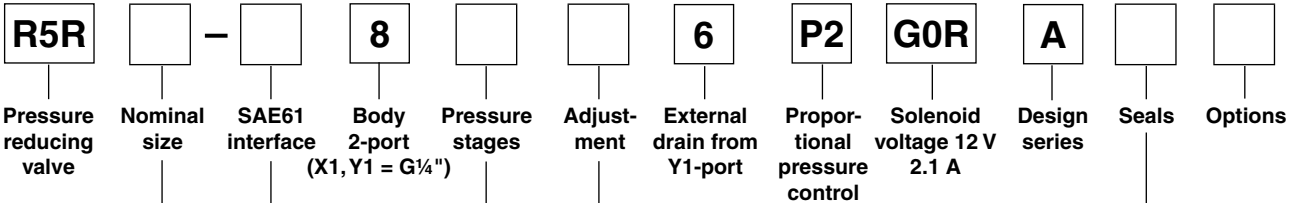
The optimum performance can be achieved in combination with the digital amplifier module PCD00A-400.

Features

- Continuous adjustment by proportional solenoid
- 2-port body with SAE61 flange
- 3 sizes (SAE ¾", 1", 1¼")
- 3 pressure stages
- With mechanical maximum pressure adjustment



Ordering code



Code	Port size
06	SAE ¾"
08	SAE 1"
10	SAE 1¼"

SAE61		
Code	Size	Max. pressure [bar]
4	10	280
5	06/08	350

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

Code	Seals
1	NBR
5	FPM

Code	Adjustment
1	Hand knob
3	Acorn nut with lead seal

Further options on request

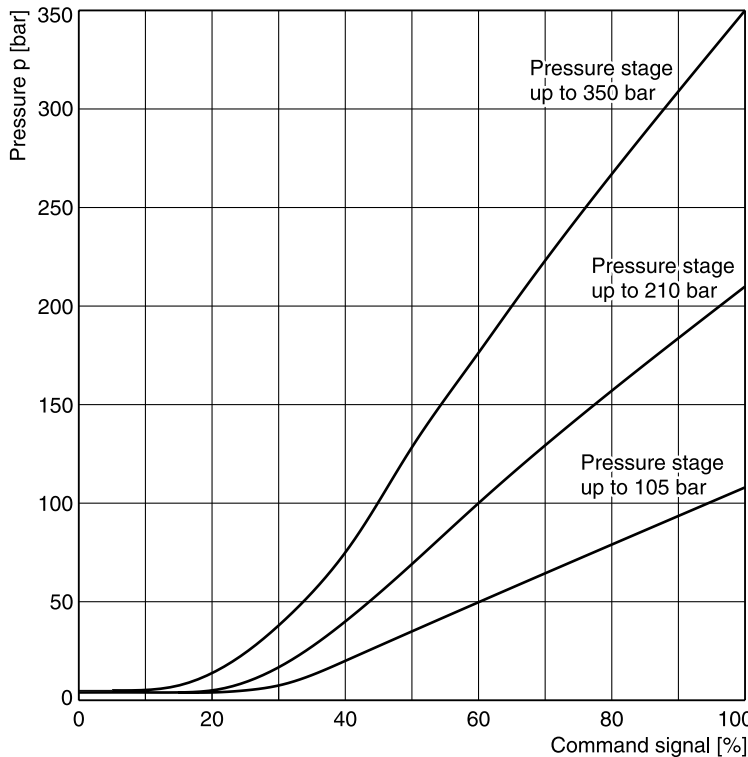
¹⁾ R5R10-485 up to 280 bar.

Technical Data / Characteristic Curves

Technical data

General			
Size			06 (3/4") 08 (1") 10 (1 1/4")
Mounting	Flanged according to SAE61		
Mounting position	unrestricted		
Ambient temperature	[°C]	-20...+60	
MTTF _D value	[years]	75	
Weight	[kg]	5.8	6.4 7.7
Hydraulic			
Max. operating pressure	Ports A, B, X1	[bar]	350
	Port Y1	[bar]	30
Pressure stages	[bar]	105, 210, 350	
Nominal flow	[l/min]	90	300 500
Fluid	Hydraulic oil according to DIN 51524		
Fluid temperature	[°C]	-20...+70 (NBR: -25...+70)	
Viscosity	permitted	[cSt] / [mm ² /s]	20...400
	recommended	[cSt] / [mm ² /s]	30...80
Filtration	ISO 4406 (1999); 18/16/13		
Electrical (proportional solenoid)			
Duty ratio	100 % ED; CAUTION: coil temperature up to 150 °C possible		
Protection class	IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)		
Code	GOR		
Supply voltage	[V]	12 V =	
Max. current	[A]	2.1	
Coil resistance at 20 °C	[Ohm]	4.28	
Solenoid connection	Connector as per EN 175301-803		
Power amplifier, recommended	PCD00A-400		

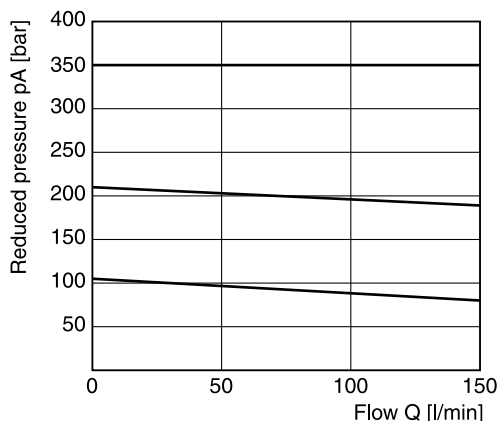
Command / pressure curve



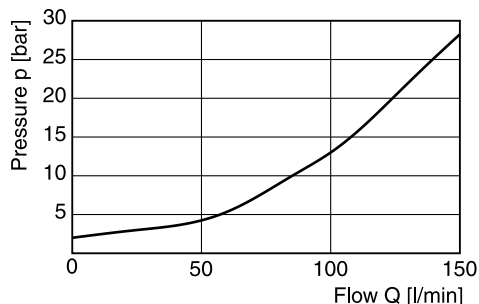
All characteristic curves measured with HLP46 at 50 °C.

Characteristics Curves

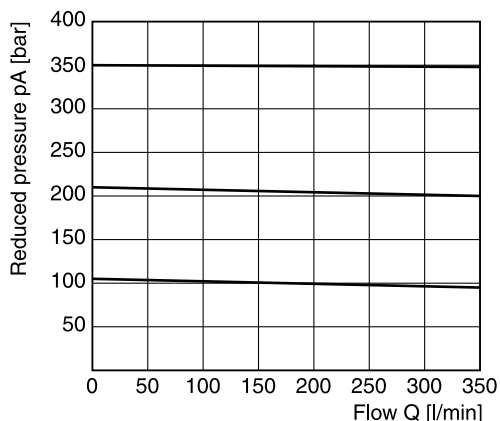
**Reduced pressure pA vs. flow Q
R5R06*P2 1)**



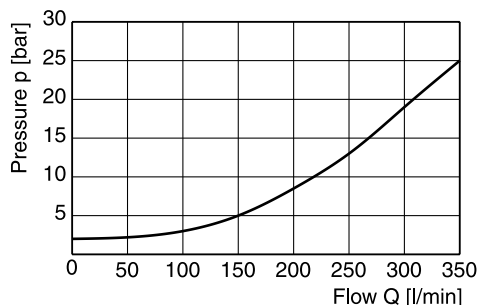
Minimum pressure curve



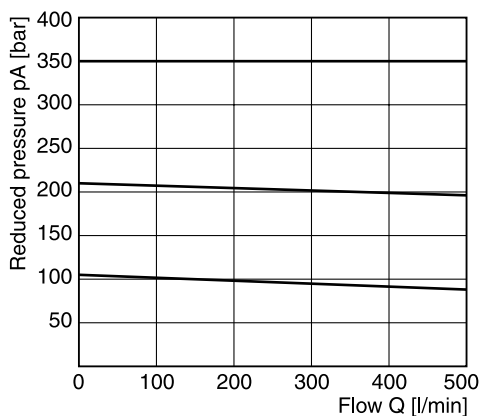
**Reduced pressure pA vs. flow Q
R5R08*P2 1)**



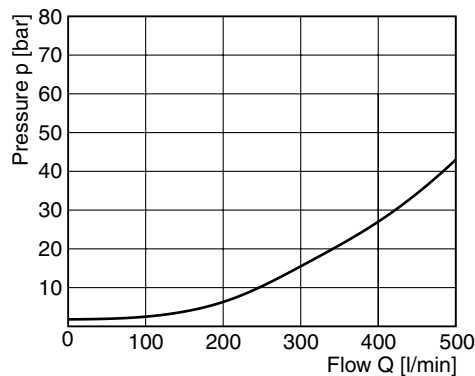
Minimum pressure curve



**Reduced pressure pA vs. flow Q
R5R10*P2 1)**



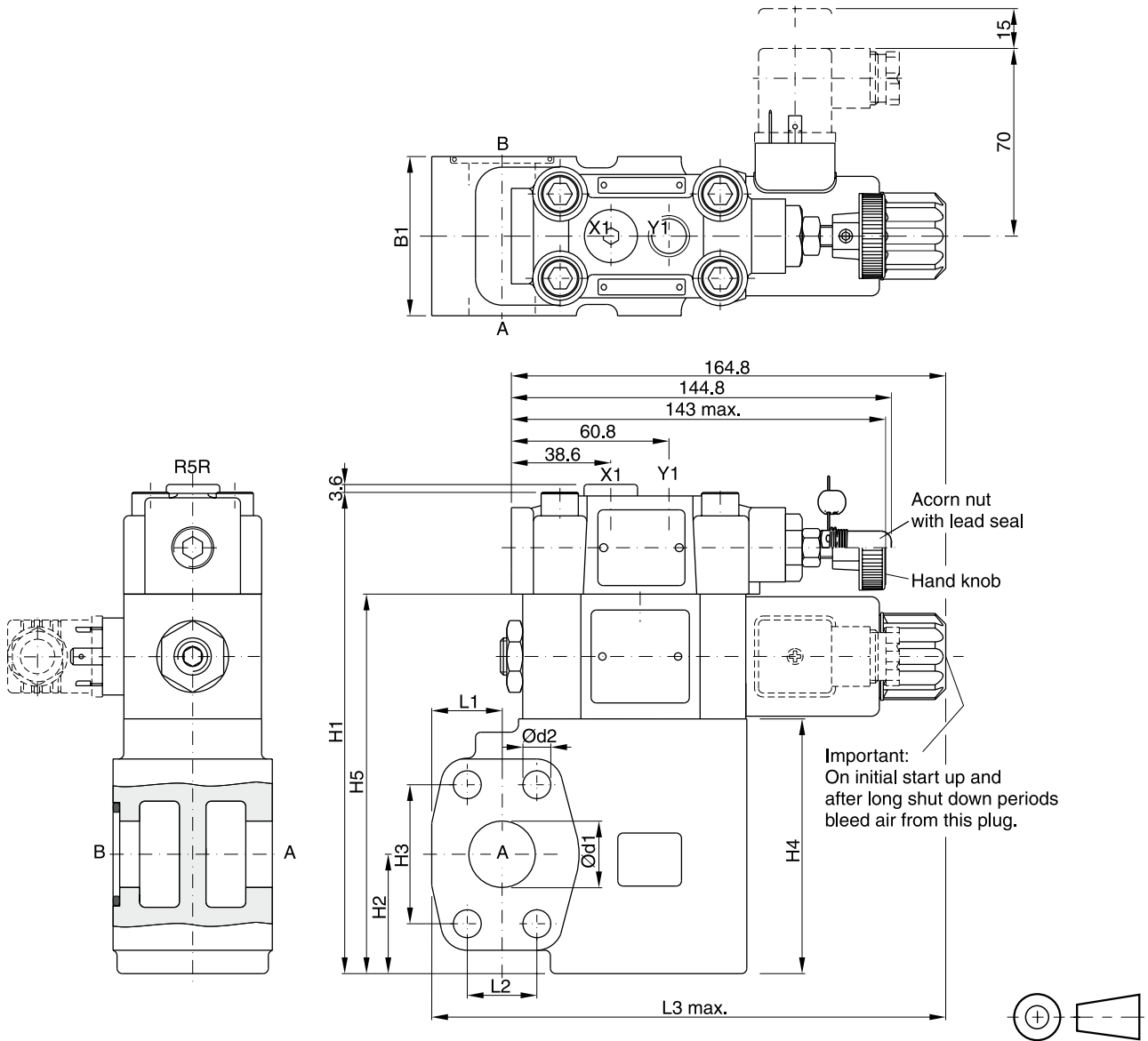
Minimum pressure curve



All characteristic curves measured with HLP46 at 50 °C.

1) Measured at 350 bar primary pressure pB.

Dimensions



9

Seal kits		
NG	NBR	FPM
06	S16-91850-0	S16-91850-5
08	S16-91851-0	S16-91851-5
10	S16-91852-0	S16-91852-5
Prop. section P2 *	S26-58473-0	S26-58473-5

NG	B1	H1	H2	H3	H4	H5	L1	L2	L3	d1	d2
06	60	175	37	47.6	90	137	24.6	22.2	174	19	10.5
08	60	181	45	52.4	96	143	26.5	26.2	193.6	25	10.5
10	75	194	48	58.7	109	156	34.0	30.2	201	32	12.5

Port	Function	Port size		
		R5R06	R5R08	R5R10
B	Inlet pressure	¾" SAE61	1" SAE61	1¼" SAE61
A	Reduced outlet pressure	¾" SAE61	1" SAE61	1¼" SAE61
Y1	External drain	G¼"	G¼"	G¼"
X1	Pressure gauge	G¼"	G¼"	G¼"

* Please combine seal kit of one size with seal kit of Prop. section P2 for complete seal kit.