

Proportional pressure relief valves series R4V*P2 are based on the mechanically adjusted series R4V. The additional proportional unit between the mechanical pilot valve and the main stage allows continuous pressure adjustment.

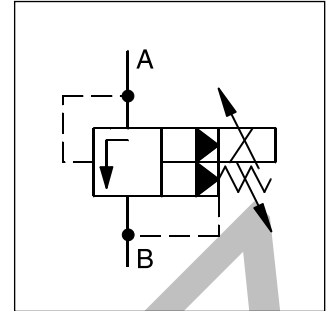
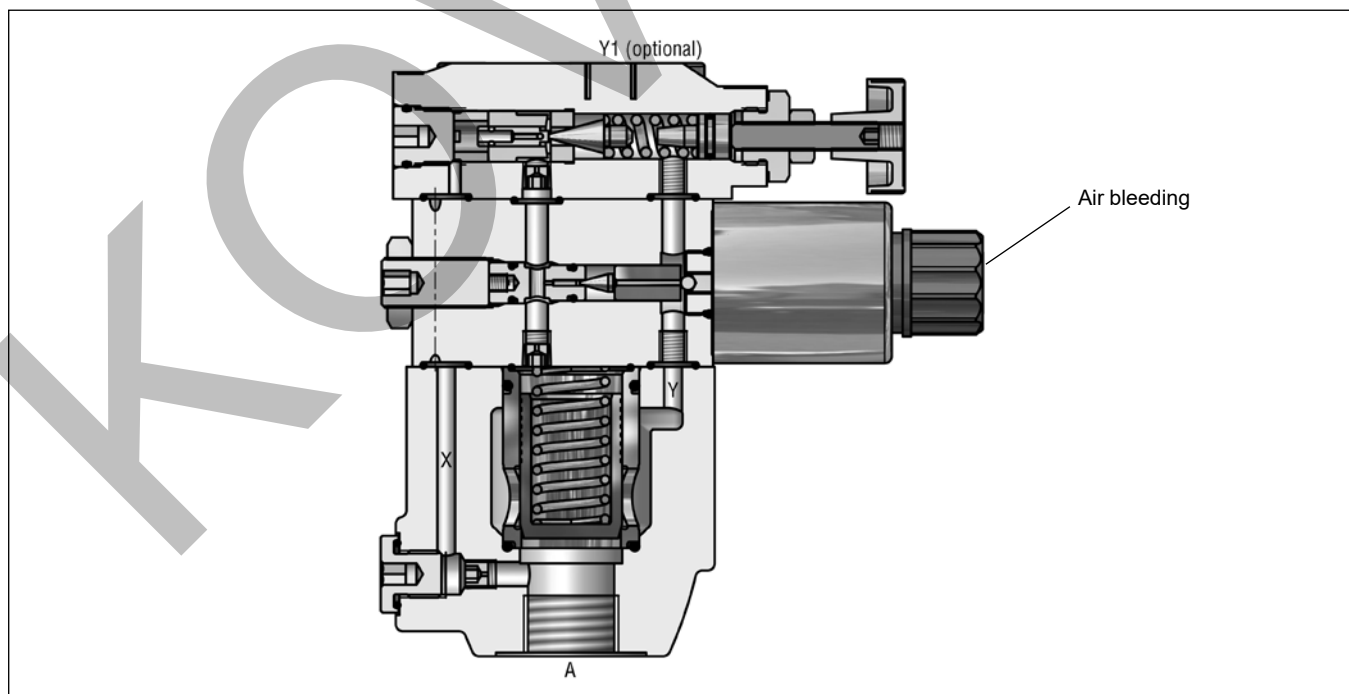
The optimum performance can be achieved in combination with the digital amplifier module PCD00A-400.

Features

- Continuous adjustment by proportional solenoid
- 2 interfaces
 - L-body (R4V06-G $\frac{3}{4}$ ", R4V10-G1 $\frac{1}{4}$ ")
 - T-body (R4V03-G $\frac{1}{2}$ ", R4V06-G1")
- 3 pressure stages
- With mechanical maximum pressure adjustment



R4V10*P2 L-body

**R4V06*P2 L-body**

Ordering code

R4V		5					P2	G0R	A			
Proportional pressure relief valve	Size	Max. pressure 350 bar	Body	Pressure stages	Adjustment	Drain line	Proportional pressure control	Solenoid voltage 12 V= ¹⁾	Design	Seal	Design series (not required for ordering)	Options

Code	Nominal size
03	NG10 (G½")
06	NG25 (G1" - T-body, G¾" - L-body)
10	NG32 (G1¼")

Code	Body
6	R4V03 T-body R4V06 T-body
D	R4V06 L-body R4V10 L-body

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

Code	Seal
1	NBR
5	FPM

Code	Drain line
0	internal
2	external from pilot head (Y1)

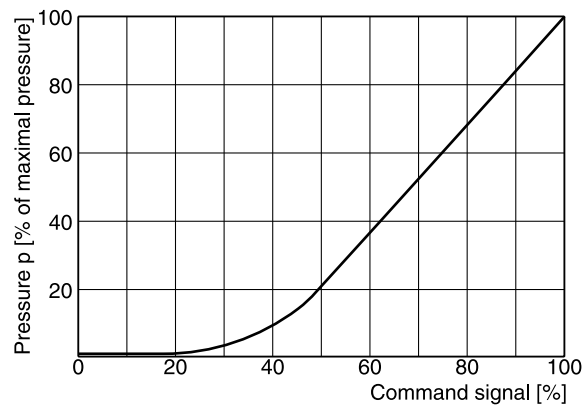
Code	Adjustment
1	Hand knob
3	Acorn nut with lead seal

¹⁾ Onboard electronics on request

Technical data R4V*P2

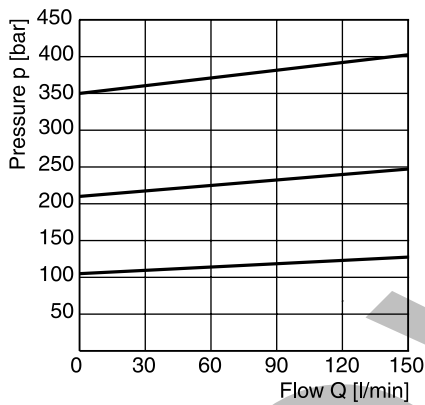
General					
Design		T-body		L-body	
Size		03 (½")	06 (1")	06 (¾")	10 (1¼")
Mounting		Threaded body			
Mounting position		unrestricted			
Ambient temperature	[°C]	-20...+60			
MTTF _D value	[years]	75			
Weight	[kg]	5.0	5.1	7.4	8.4
Hydraulic					
Max. operating pressure	[bar]	Ports A and X up to 350; Ports B and Y 30 bar			
Pressure stages	[bar]	105, 210, 350			
Nominal flow	[l/min]	60	200	200	450
Fluid		Hydraulic oil according to DIN 51524			
Fluid temperature	[°C]	-20...+70 (NBR: -25...+70)			
Viscosity permitted	[cSt] / [mm²/s]	20...400			
Viscosity recommended	[cSt] / [mm²/s]	30...80			
Filtration		ISO 4406 (1999), 18/16/13			
Electrical (prop. solenoid)					
Duty ratio	[%]	100			
Protection class		IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)			
Nominal voltage	[V]	12 =			
Max. current	[A]	2.3			
Coil resistance	[Ohm]	4 at 20 °C			
Solenoid connection		Connector as per EN175301-803			
Power amplifier		PCD00A-400			

Signal/pressure curve R4V

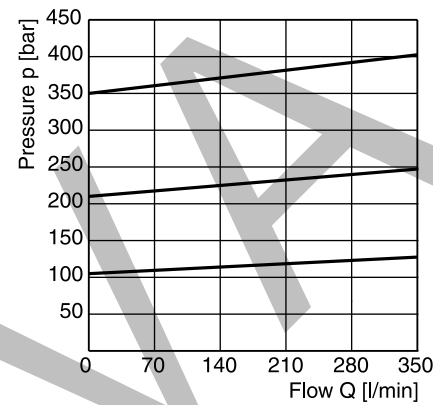


p/Q performance curves ¹⁾

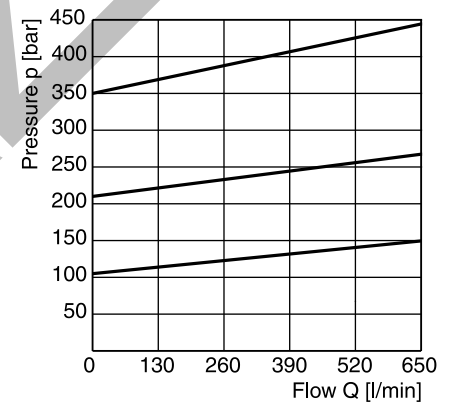
R4V03



R4V06



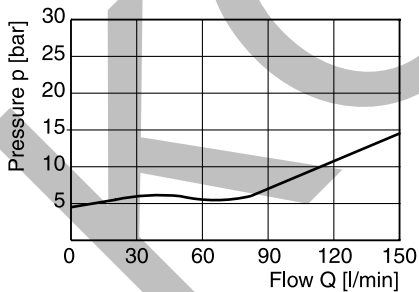
R4V10



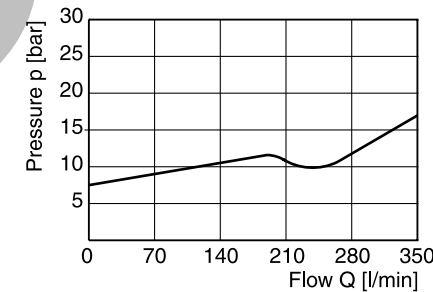
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Minimum pressure curve ¹⁾

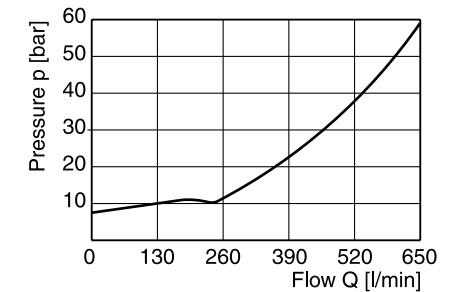
R4V03



R4V06

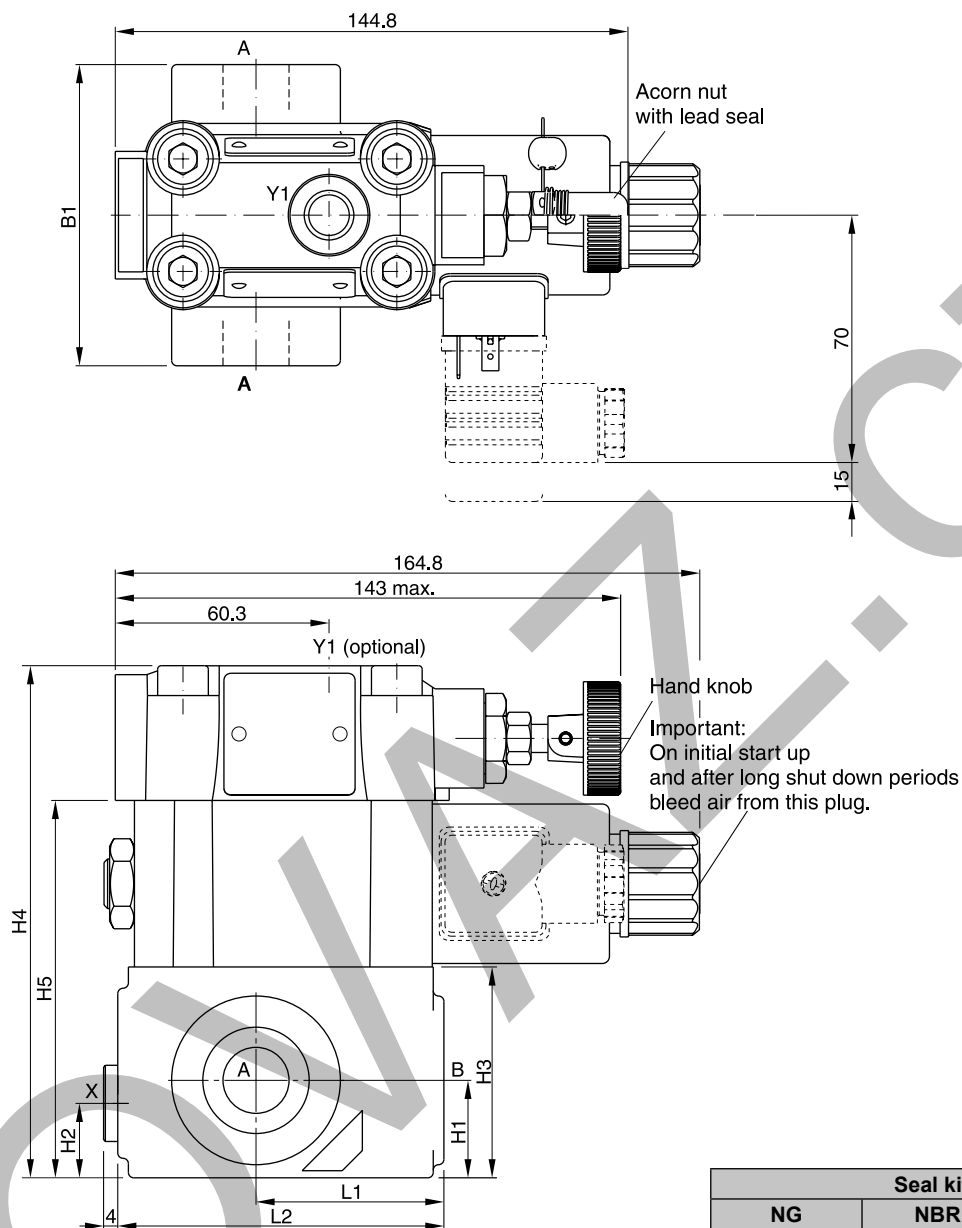


R4V10



All characteristic curves measured with HLP46 at 50 °C.

¹⁾ The performance curves are measured with external drain. For internal drain the tank pressure has to be added to curve.

Dimensions**Pilot Operated Prop. Pressure Relief Valve
Series R4V*P2****T-body**

Seal kits		
NG	NBR	FPM
03	S26-58507-0	S26-58507-5
06	S26-58475-0	S26-58475-5
Prop. section P2*	S26-58473-0	S26-58473-5

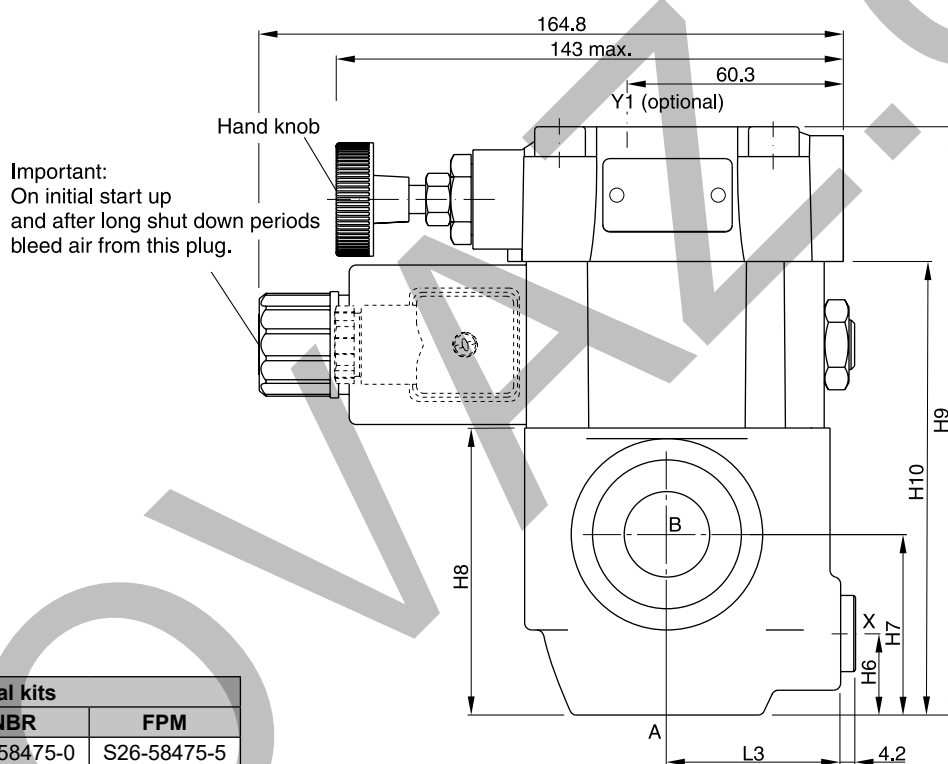
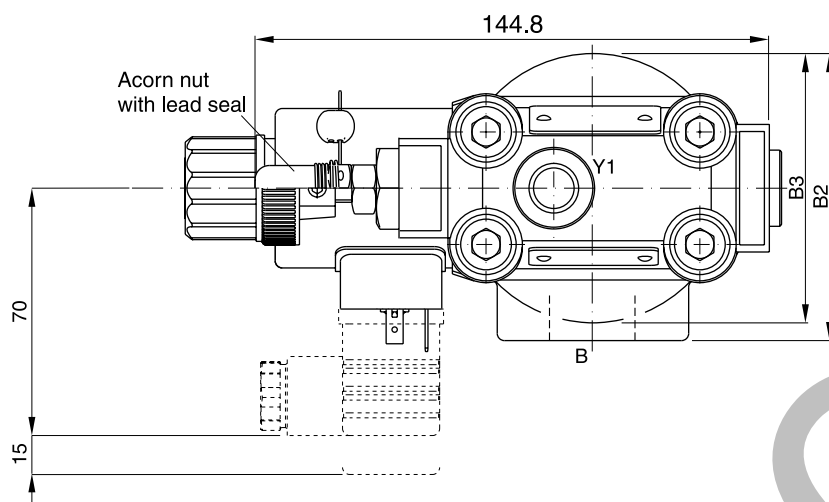
NG	Body	B1	H1	H2	H3	H4	H5	L1	L2
03	T-body	85	27.5	21	59.5	144.5	106.5	53	92
06	T-body	136	38	28	93	178	140	66.5	117.5

Ports	Function	Port size	
		R4V03*P2 T-body	R4V06*P2 T-body
A	pressure (inlet)	G½ "	G1 "
B	tank (outlet)	G½ "	G1 "
X ¹⁾	ext. remote control or vent connection	G¼ "	G¼ "
Y1 ²⁾	external drain	G¼ "	G¼ "

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

¹⁾ Closed when supplied.

²⁾ Port Y1 is only available at drain line (code 2) external from the pilot head.



NG	Body	B2	B3	H6	H7	H8	H9	H10	L3
06	L-body	81	76	23	51	81	166	128	49
10	L-body	120.7	85.8	38.1	50.8	96	181	143	49.8

Ports	Function	Port size	
		R4V06 L-body	R4V10 L-body
A	pressure (inlet)	G $\frac{3}{4}$ "	G $1\frac{1}{4}$ "
B	tank (outlet)	G $\frac{3}{4}$ "	G $1\frac{1}{4}$ "
X ¹⁾	ext. remote control or vent connection	G $\frac{1}{4}$ "	G $\frac{1}{4}$ "
Y1 ²⁾	external drain	G $\frac{1}{4}$ "	G $\frac{1}{4}$ "

²⁾ Port Y1 is only available at drain line (code 2) external from the pilot head.