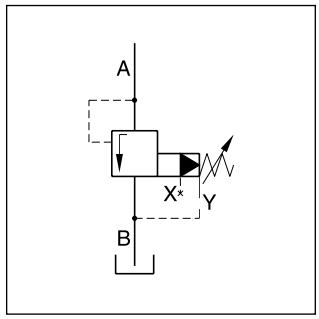
Pilot operated pressure relief valves for in-line mounting series R4V have a similar design to the subplate mounted R4V series. For single functions - where no manifold blocks are used - the valves can be directly placed in the pipework.
The R4V valves are available with 2 ports (L-body) for in-line relief function or with 3 ports (T-body) for relief functions in the bypass.

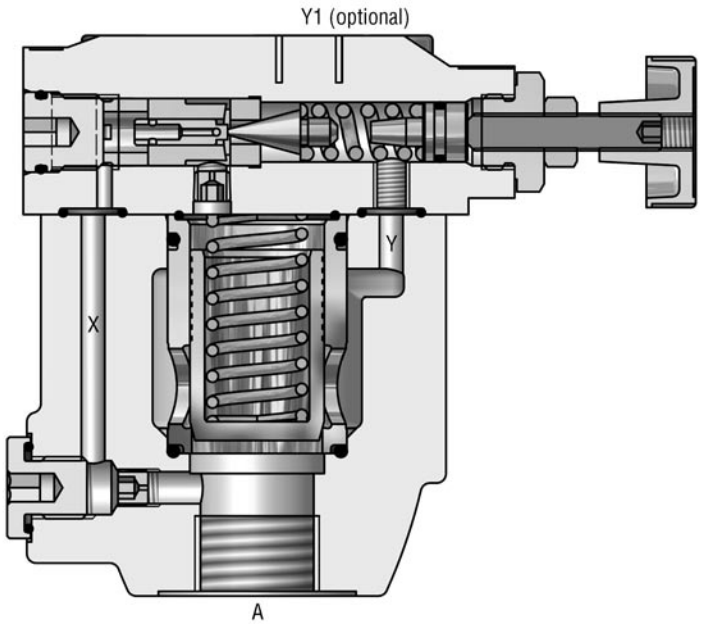


R4V10 L-body

Features

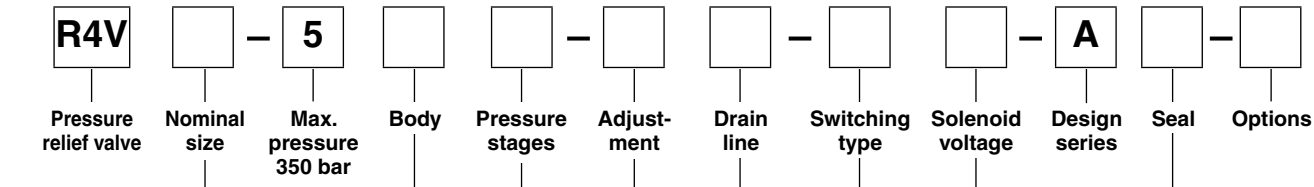
- Pilot operated with manual adjustment
- 2 interfaces
  - L-body (R4V06-G¾", R4V10-G1¼")
  - T-body (R4V03-G½", R4V06-G1")
- 3 pressure stages
- 3 adjustment modes
  - Hand knob
  - Acorn nut with lead seal
  - DIN lock
- With optional vent function

R4V06 L-body



10

Ordering code



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 105bar
3	up to 210bar
5	up to 350bar

Code	Adjustment
1	Hand knob
3	Acorn nut with lead seal
4	DIN lock

Code	Seal
1	NBR
5	FPM

Code	Solenoid voltage
omit	Standard w/o vent function
G0R	12V=
G0Q	24V=
GAR	98V=
GAG	205V=
W06	115V / 50Hz
W07	230V / 50Hz

Code	Switching type
omit	Standard w/o vent function
09 [1]	Solenoid not activ. unpress. circulation
11 [2]	Solenoid activated unpress. circulation

[1] Sol. de-energized: open to tank
Sol. energized: vent line blocked

[2] Sol. de-energized: vent line blocked
Sol. energized: open to tank

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

10

R4V

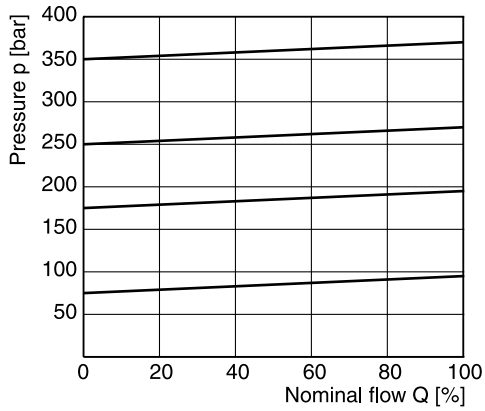
General		T-body		L-body	
Size		**03 (½")**	**06 (1")**	**06 (¾")**	**10 (1¼")**
Mounting		Threaded body			
Mounting position		unrestricted			
Ambient temperature	[°C]	-20...+50			
Weight	[kg]	3.2	6.6	3.3	5.6
Hydraulic					
Max. operating pressure	[bar]	Ports A and X up to 350; Ports B and Y 30 bar			
Pressure stages	[bar]	105, 210, 350			
Nominal flow	[l/min]	60	200	200	450
Fluid		Hydraulic oil as per DIN 51524...525			
Fluid temperature	[°C]	-20...+80			
Viscosity permitted	[cSt]/[mm²/s]	10...650			
Viscosity recommended	[cSt]/[mm²/s]	30			
Filtration		ISO 4406 (1999) 18/16/13 (acc. NAS 1638: 7)			

R4V with vent function

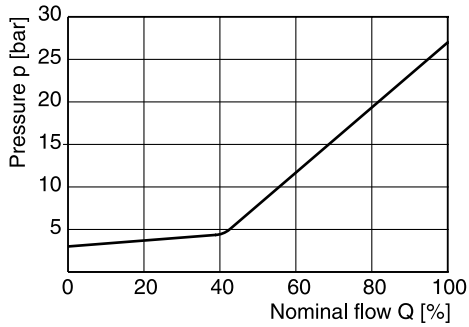
General		T-body		L-body	
Size		**03 (½")**	**06 (1")**	**06 (¾")**	**10 (1¼")**
Mounting		Threaded body			
Mounting position		unrestricted			
Ambient temperature	[°C]	-20...+50			
Weight	[kg]	4.9	8.3	5.0	7.3
Hydraulic					
Max. operating pressure	[bar]	Ports A and X up to 350; Ports B and Y 30			
Pressure stages	[bar]	105, 210, 350			
Nominal flow	[l/min]	60	200	200	450
Fluid		Hydraulic oil as per DIN 51524...525			
Fluid temperature	[°C]	-20...+80			
Viscosity permitted	[cSt]/[mm²/s]	10...650			
Viscosity recommended	[cSt]/[mm²/s]	30			
Filtration		ISO 4406 (1999) 18/16/13 (acc. NAS 1638: 7)			

Electrical (solenoid)							
Duty ratio	[%]	100					
Response time	[ms]	Energized / de-energized AC: 20/18 , DC: 46/27					
		G0R	G0Q	GAR	GAG	W06	W07
Supply voltage		12V =	24V =	98V =	205V =	150 at 50Hz	230 at 50Hz
Tolerance supply voltage	Code	+5...-10	+5...-10	+5...-10	+5...-10	+5...-10	+5...-10
Power consumption hold		31	31	31	31	78	78
in rush		31	31	31	31	264	264
Max. switching frequency		AC: up to7.200, DC: up to 16.000 switchings/hour					
Solenoid connection		Connector as per EN175301-803					
Protection class		IP65 in accordance with EN 60529 (plugged and mounted)					
Coil insulation class		H (180 °C)					

p/Q performance curve Series R4V [1)]



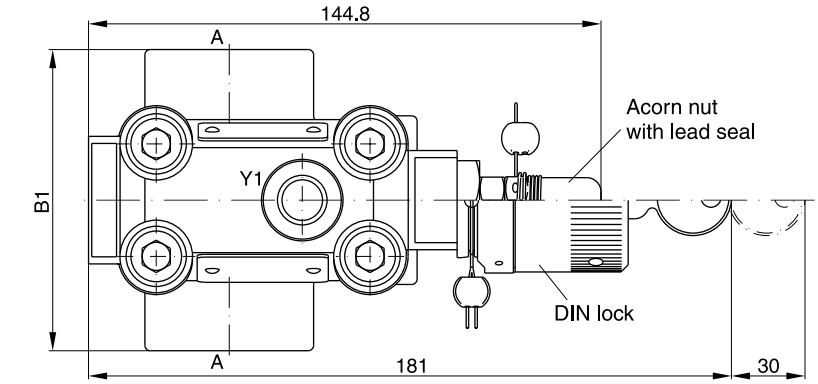
Minimum pressure curve

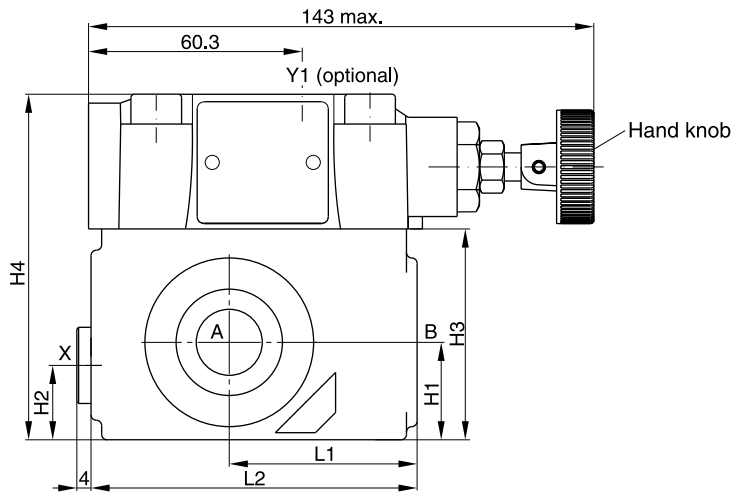


1) The performance curves are measured with external drain. For internal drain the tank pressure has to be added to curve.

Dimensions R4V*06

T-body

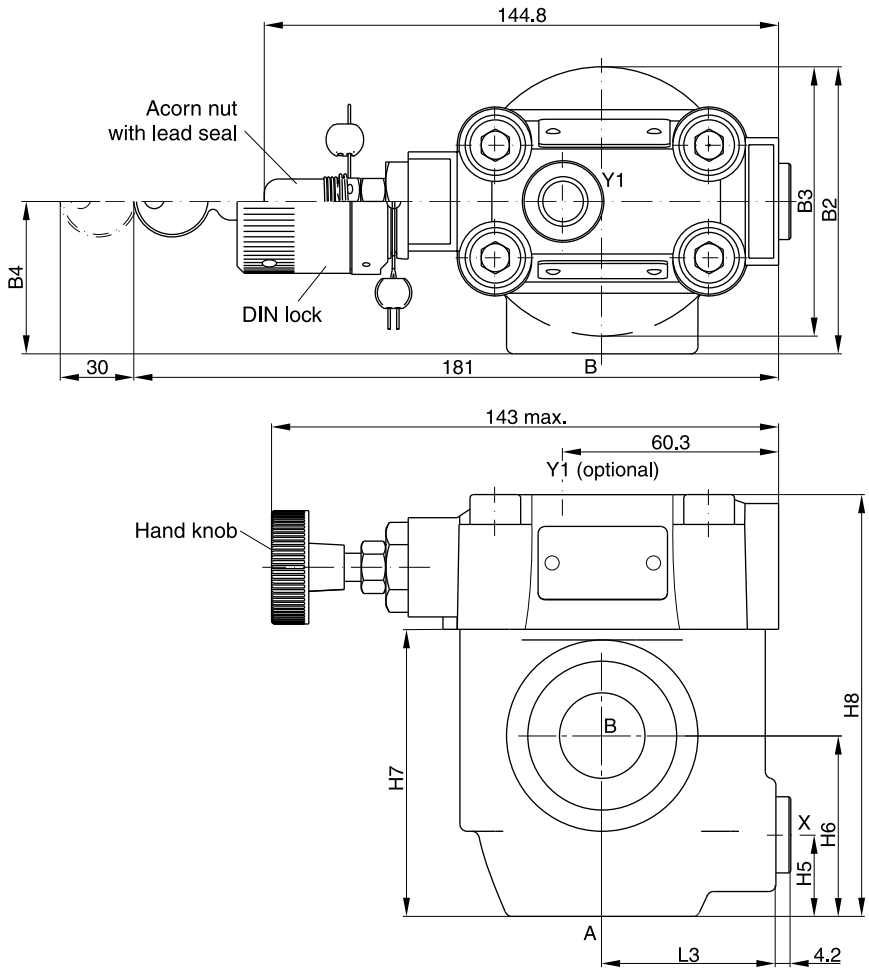




10

Dimensions R4V*06

L-body



NG	Body	B1	B2	B3	B4	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3
03	T-body	85	-	-	-	27.5	21	59.5	97.5	-	-	-	-	53	92	-
06	T-body	136	-	-	-	38	28	93	131	-	-	-	-	66.5	117.5	-
06	L-body	-	81	76	43	-	-	-	-	23	51	81	119	-	-	49
10	L-body	-	120.7	85.8	77.8	-	-	-	-	31.8	50.8	96	134	-	-	49.8

Ports	Function	Port size			
		R4V03 T-body	R4V06 L-body	R4V06 T-body	R4V10 L-body
A	pressure (inlet)	G½ "	G¾ "	G1 "	G1¼ "
B	tank (outlet)	G½ "	G¾ "	G1 "	G1¼ "
X[1)]	ext. remote control or vent connection	G¼ "			
Y1[2)]	external drain				

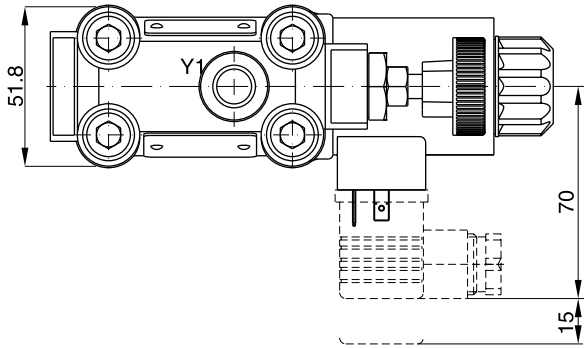
[1)] closed when supplied

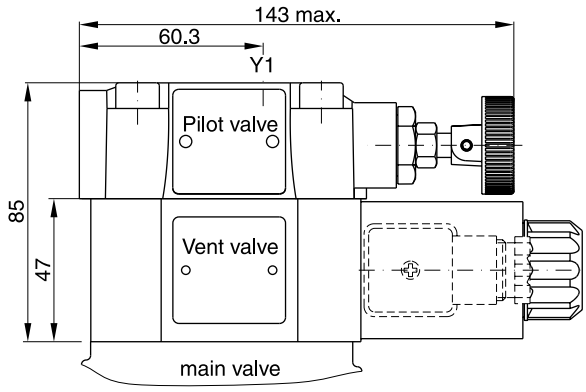
[2)] port Y1 is only available at drain line (code2) external from the pilot head

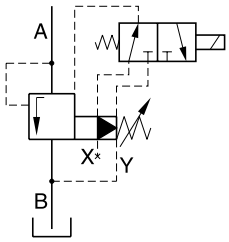
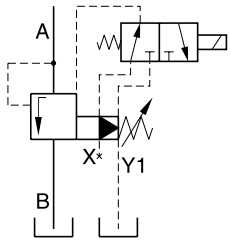
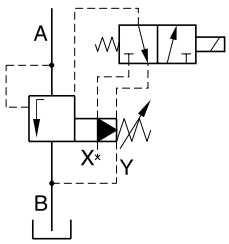
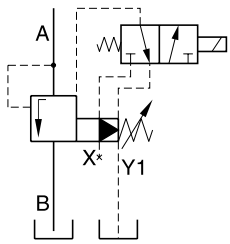
R4V_UK.INDD RH

Parker Hannifin GmbH & Co. KG
Hydraulic Controls Division
Kaarst, Germany

Dimensions R4V with vent function





Code	Internal drain	External drain
11		
09		

10