



## Pressure Reducing Valves

### Section 2

**SECTION 2**



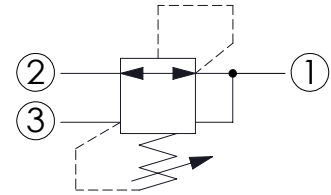
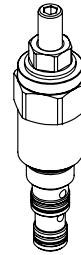
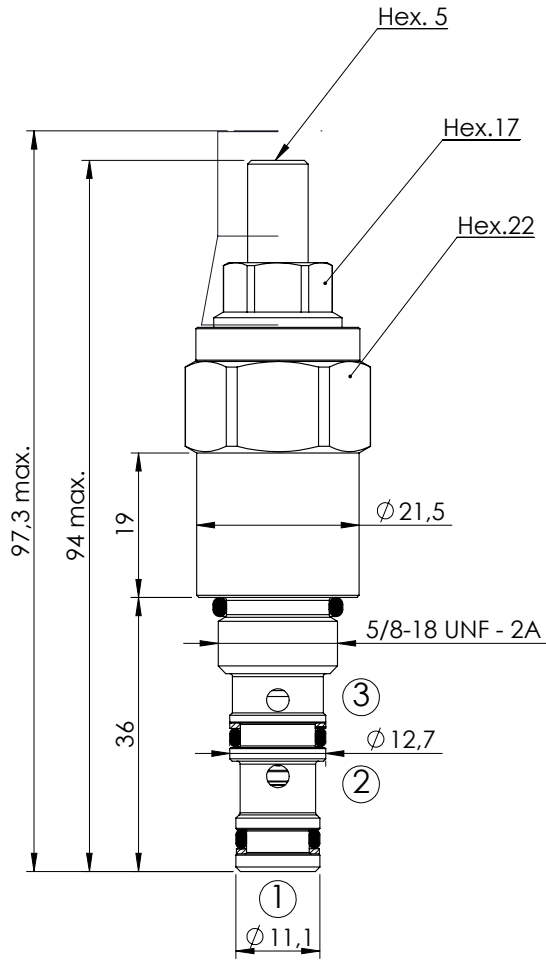
**PRESSURE REDUCING VALVES**

Hydraulic scheme	Valve description	Valve type	Rated flow (l/min)	Max. pressure (bar)	Installation	Main port size or cavity type	Page
	CPRL-007-DNNR	Direct acting, reducing and relieving	5	350	Cartridge	VP000016	2.01.010
	CPRL-030-DNNR	Direct acting, reducing and relieving	30	350	Cartridge	SAE-10-3N	2.01.020
	CPRL-030-DNSR	Direct acting, reducing and relieving	30	350	Cartridge	SAE-10-3N	2.01.030
	CPRL-030-DNSR-LN	Direct acting, reducing and relieving, panel installation	30	350	Cartridge	SAE-10-3N	2.01.040
	KPRL-030-DNSR	Direct acting, reducing and relieving, with check valve	30	210	In line	G3/8"	2.01.050
	KPRL-030-DNNR	Direct acting, reducing and relieving	30	250	In line	G3/8"	2.02.080
	CPRL-060-PNNR	Pilot operated, reducing and relieving	60	350	Cartridge	SAE-10-3N	2.02.060
	CPRL-140-PNNR	Pilot operated, reducing and relieving	140	350	Cartridge	SAE-12-3N	2.02.070
	KPRL-060-DNNR	Pilot operated, reducing and relieving	60	250	In line	G3/8"	2.02.080
	CPRR-060-PNNR	Pilot operated, reducing	60	350	Cartridge	SAE-10-3N	2.03.090
	CPRR-140-PNNR	Pilot operated, reducing	140	350	Cartridge	SAE-12-3N	2.03.100
	KPRR-140-PNNR	Pilot operated, reducing	140	350	In line	G1/2"	2.03.110

**PRESSURE REDUCING AND RELIEVING**

**CPRL-007-DNNR**

**DIRECT ACTING  
SPOOL TYPE**

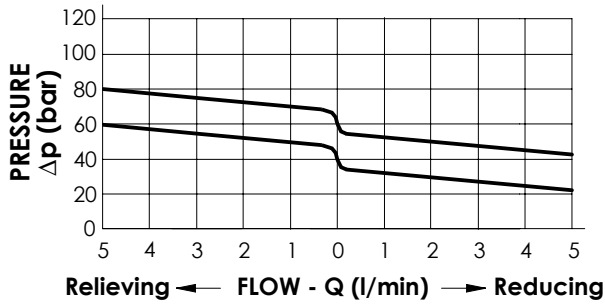


**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	5 l/min
Cavity:	VP000016
Weight:	0,14 kg
Installation torque:	25 - 30 Nm
Leakage:	35 cm <sup>3</sup> @ 50 bar
Seal kit:	RC700016

**SEALING CAP**

Ordering code:  
**AT000020**



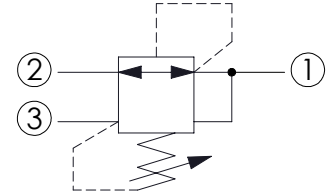
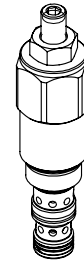
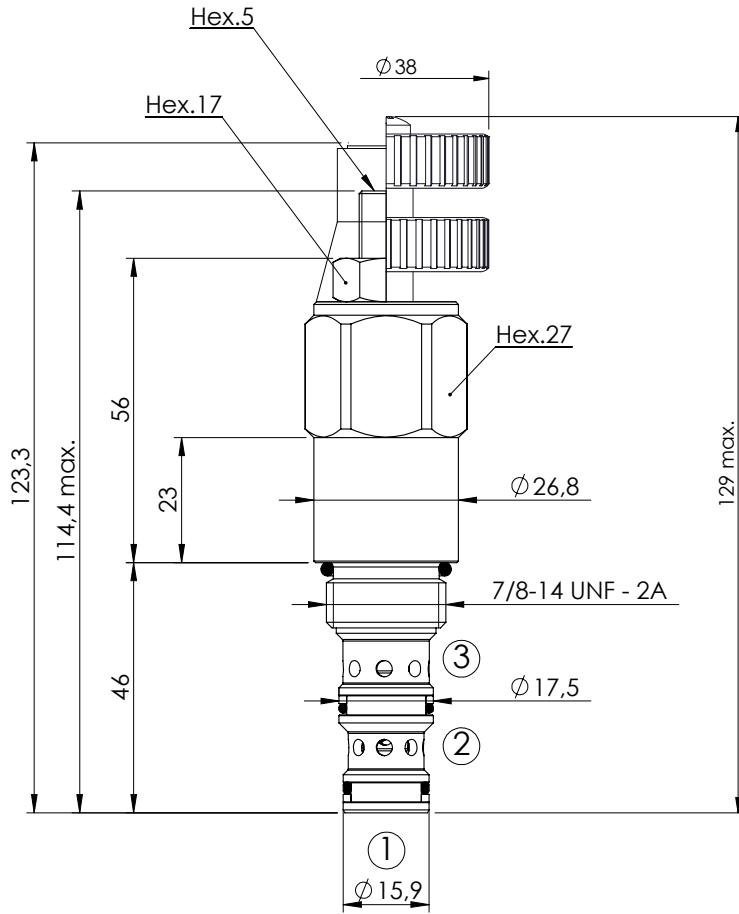
**ORDERING CODES**

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CR000001	CPRL-007-DNNR-HN-016-N060	40	10-60	6	
CR000025	CPRL-007-DNNR-HN-016-N085	60	25-85	9	

**PRESSURE REDUCING AND RELIEVING**

**CPRL-030-DNNR**

**DIRECT ACTING  
SPOOL TYPE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	SAE-10-3N
Weight:	0,28 kg
Installation torque:	55 - 62 Nm
Leakage:	50 cm <sup>3</sup> @ 50 bar
Seal kit:	RA700092

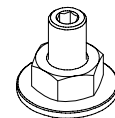
**SEALING CAP**

Ordering code:

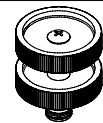
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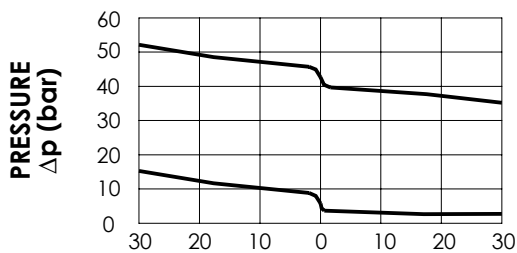
**OPTIONS**



**Adjustment  
with Screw**



**Adjustment  
with Handknob**



Relieving ← FLOW - Q (l/min) → Reducing

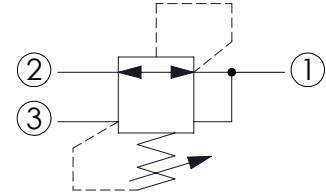
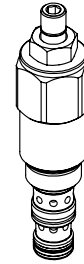
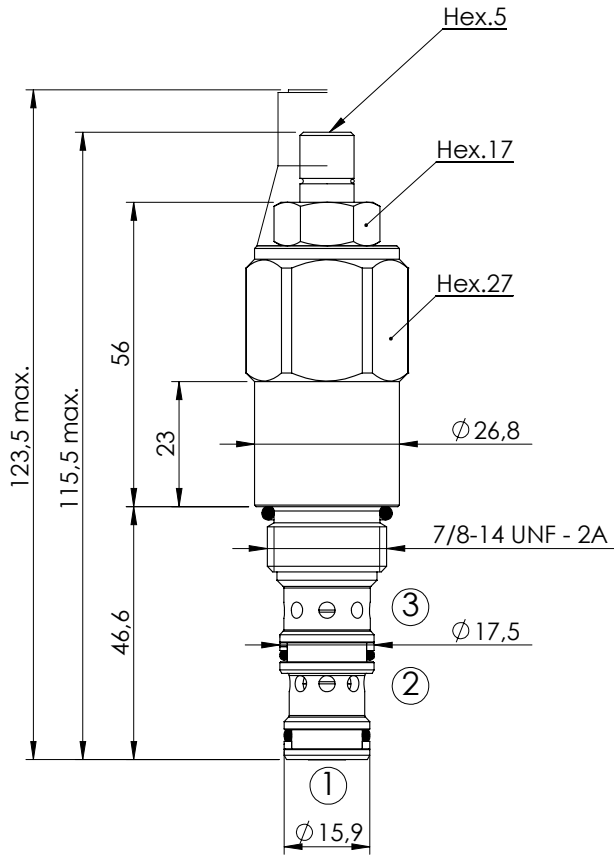
**ORDERING CODES**

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CR000002	CPRL-030-DNNR-HN-S10-N050	35	10-50	7	Adjustment with Screw
CR000008	CPRL-030-DNNR-VN-S10-N050	35	10-50	7	Adjustment with Handknob
CR000011	CPRL-030-DNNR-HN-S10-N015	5	1.5-15	1	Adjustment with Screw
CR000012	CPRL-030-DNNR-VN-S10-N015	5	1.5-15	1	Adjustment with Handknob

**PRESSURE REDUCING AND RELIEVING**

**CPRL-030-DNSR**

**DIRECT ACTING  
SPOOL TYPE**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	SAE-10-3N
Weight:	0,29 kg
Installation torque:	55 - 62 Nm
Leakage:	50 cm <sup>3</sup> @ 50 bar
Seal kit:	RA700092

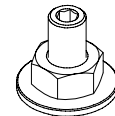
**SEALING CAP**

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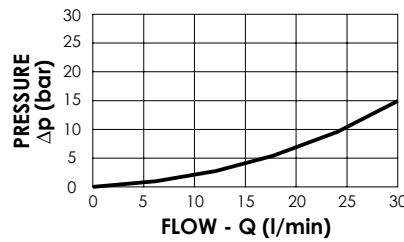
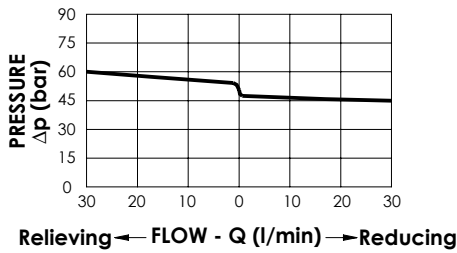
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**OPTIONS**



**Adjustment  
with Screw**



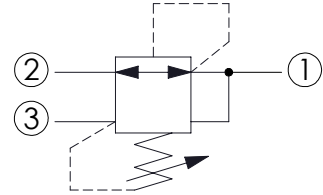
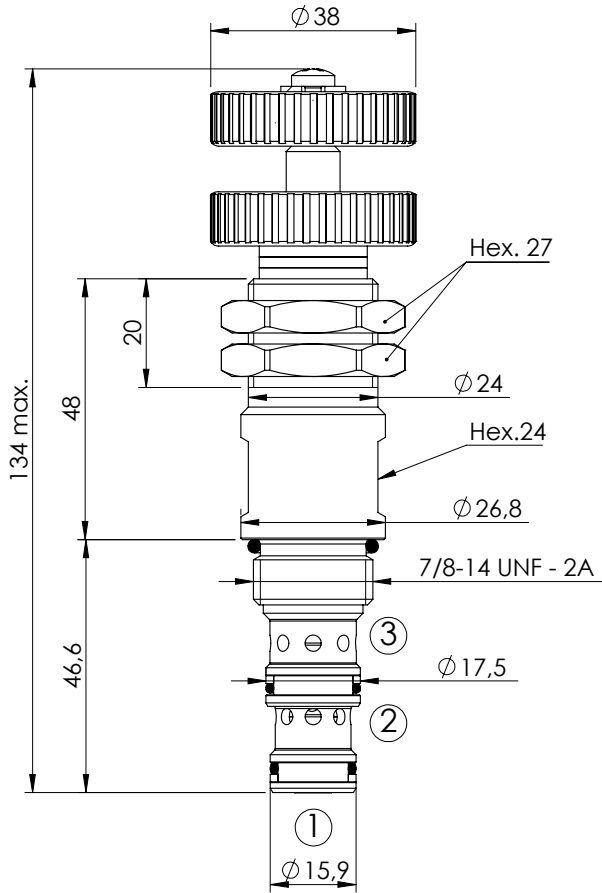
**ORDERING CODES**

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CR000038	CPRL-030-DNSR-HN-S10-N080	50	20-75	11	Adjustment with Screw
CR000056	CPRL-030-DNSR-HN-S10-N040	20	10-35	5,3	Adjustment with Screw

**PRESSURE REDUCING AND RELIEVING**

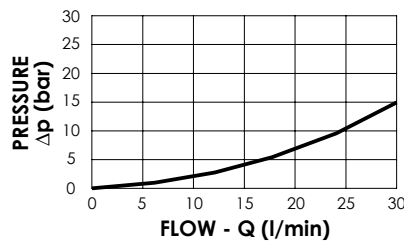
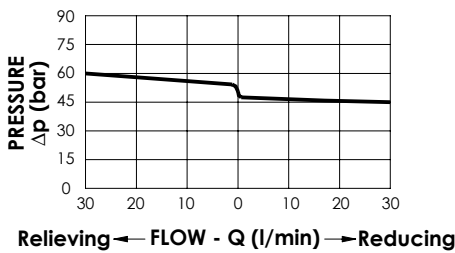
**CPRL-030-DNSR**

**DIRECT ACTING  
SPOOL TYPE  
PANEL INSTALLATION**



**SPECIFICATIONS**

Max. operating pressure:	350 bar
Rated flow:	30 l/min
Cavity:	SAE-10-3N
Weight:	0,31 kg
Installation torque:	55 - 62 Nm
Leakage:	50 cm <sup>3</sup> @ 50 bar
Seal kit:	RA700092



**OPTIONS**



**Adjustment with Handknob**

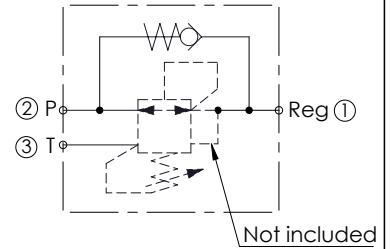
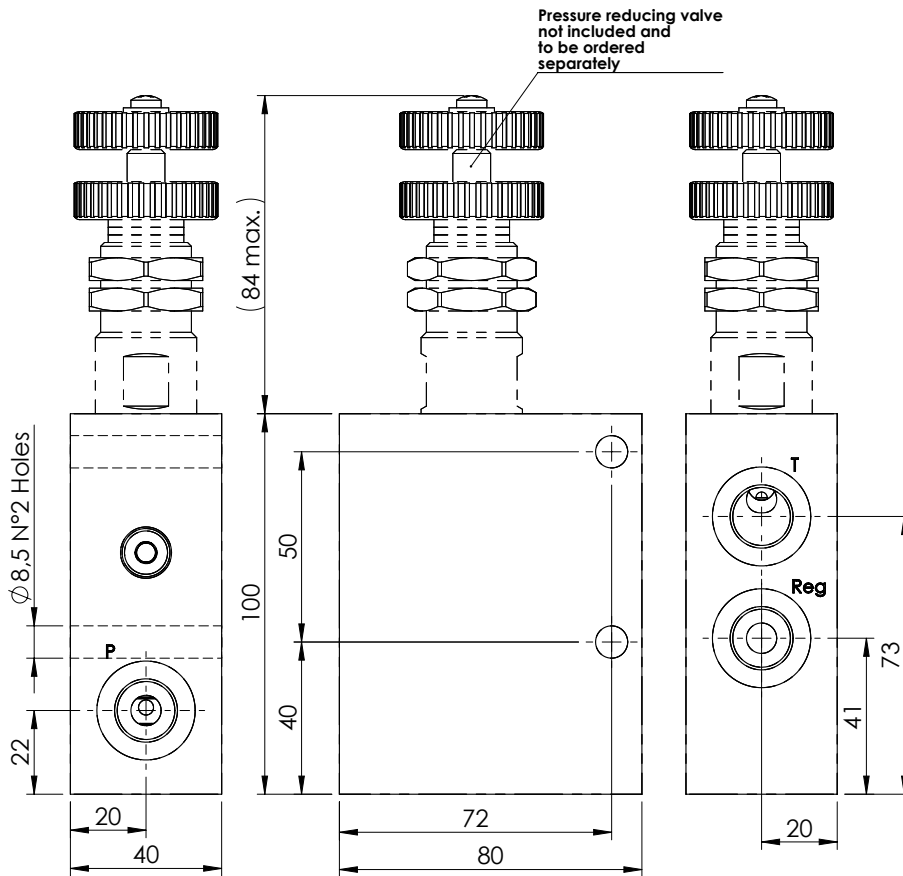
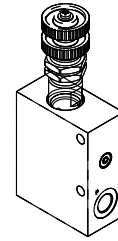
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000048	CPRL-030-DNSR-LN-S10-N045	20	10 - 45	5,3	Adjustment with Handknob

**PRESSURE REDUCING AND RELIEVING IN BODY**

**KPRL-030-DNSR**

**DIRECT ACTING  
WITH CHECK VALVE**



**SPECIFICATIONS**

Max. operating pressure:	210 bar
Rated flow:	30 l/min
Cavity type:	SAE-10-3N
Weight:	0,87 Kg
Manifold:	Aluminium

**NOTES**

-See pages 2.01.030 or 2.01.040 for pressure reducing valve info.

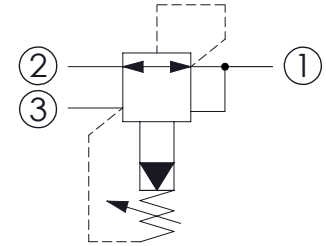
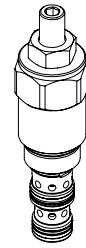
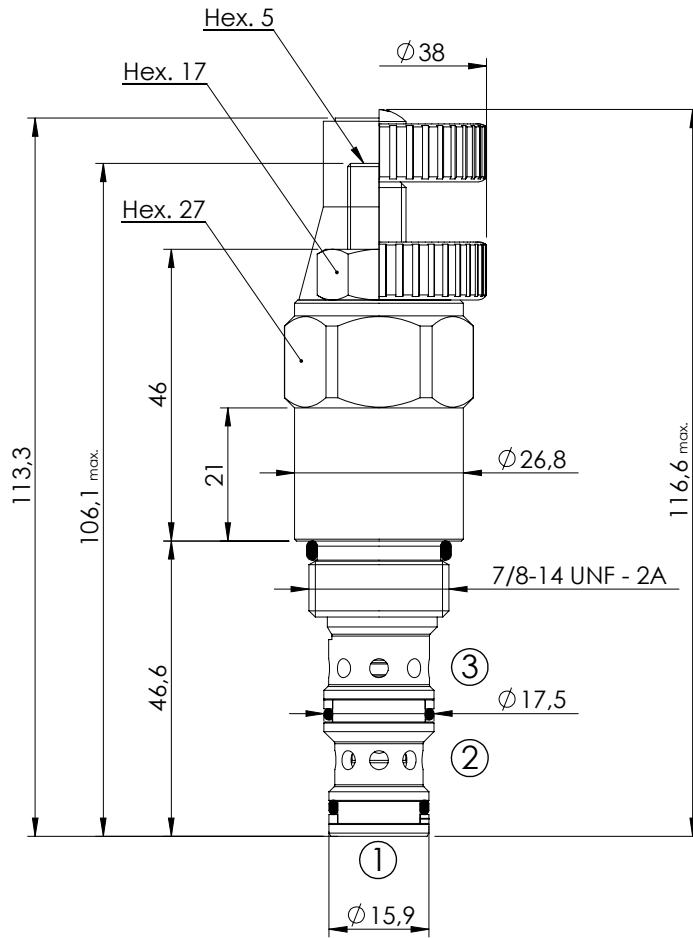
**ORDERING CODES**

Quick code	Description	Ports	
KR000043	KPRL-030-DNSR-HN-G38-N210	G 3/8"	

**PRESSURE REDUCING AND RELIEVING**

**CPRL-060-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

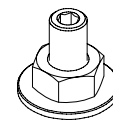
Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	SAE-10-3N
Weight:	0,26 kg
Installation torque:	55 - 62 Nm
Seal kit:	RA700092

**SEALING CAP**

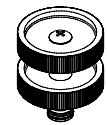
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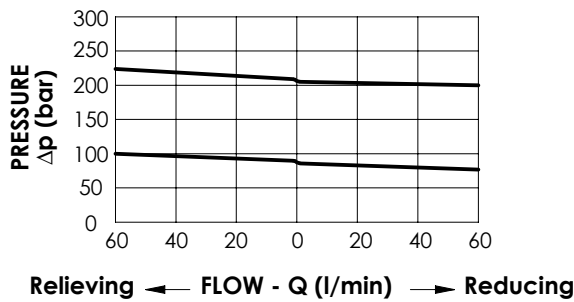
**OPTIONS**



Adjustment  
with Screw



Adjustment  
with Handknob



**ORDERING CODES**

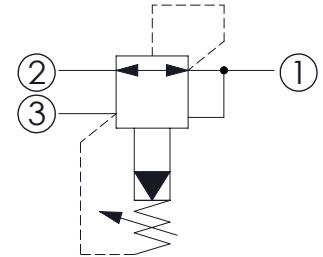
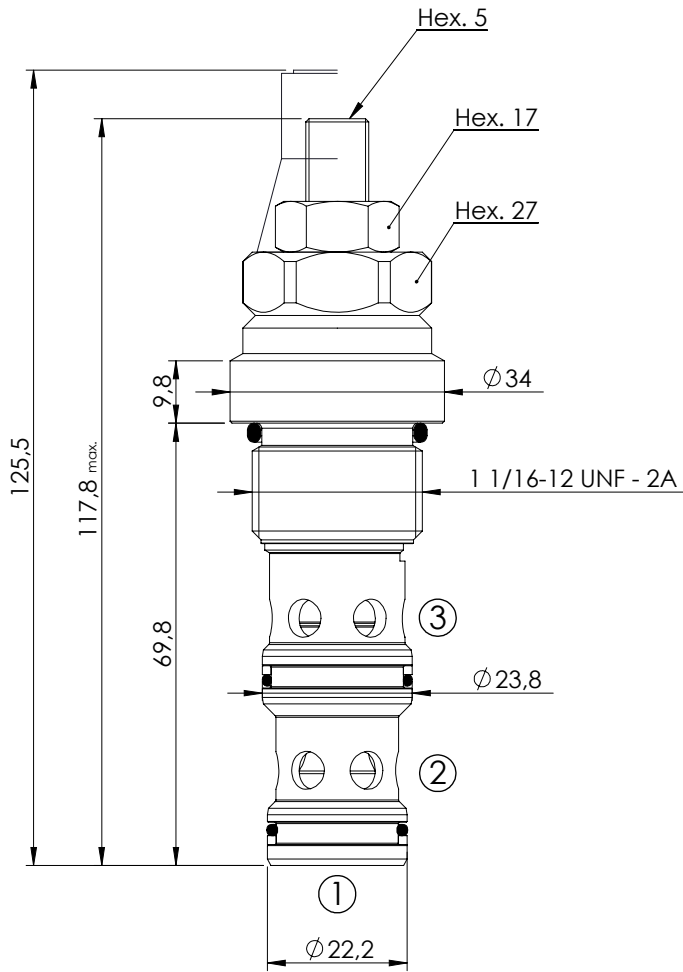
Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000006	CPRL-060-PNNR-HN-S10-N300	200	70-350	114	Adjustment with Screw
CR000007	CPRL-060-PNNR-VN-S10-N300	200	70-350	114	Adjustment with Handknob
CR000009	CPRL-060-PNNR-HN-S10-N100	80	20-110	37	Adjustment with Screw
CR000010	CPRL-060-PNNR-VN-S10-N100	80	20-110	37	Adjustment with Handknob



**PRESSURE REDUCING AND RELIEVING**

**CPRL-140-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

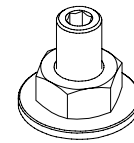
Max. operating pressure:	350 bar
Rated flow:	140 l/min
Cavity:	SAE-12-3N
Weight:	0,34 kg
Installation torque:	80 - 95 Nm
Seal kit:	RA700093

**SEALING CAP**

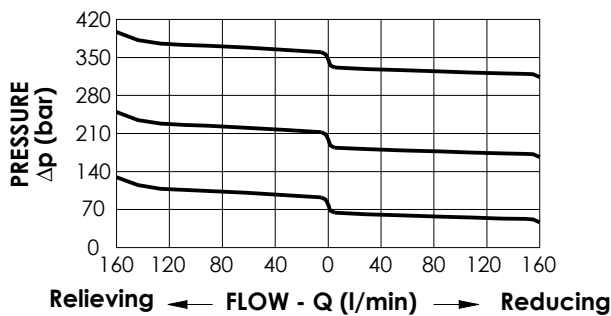
Ordering code:  
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**OPTIONS**



**Adjustment  
with Screw**



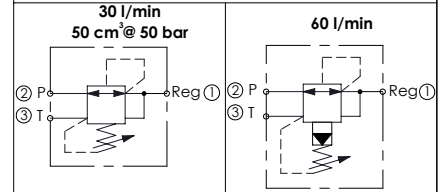
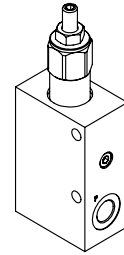
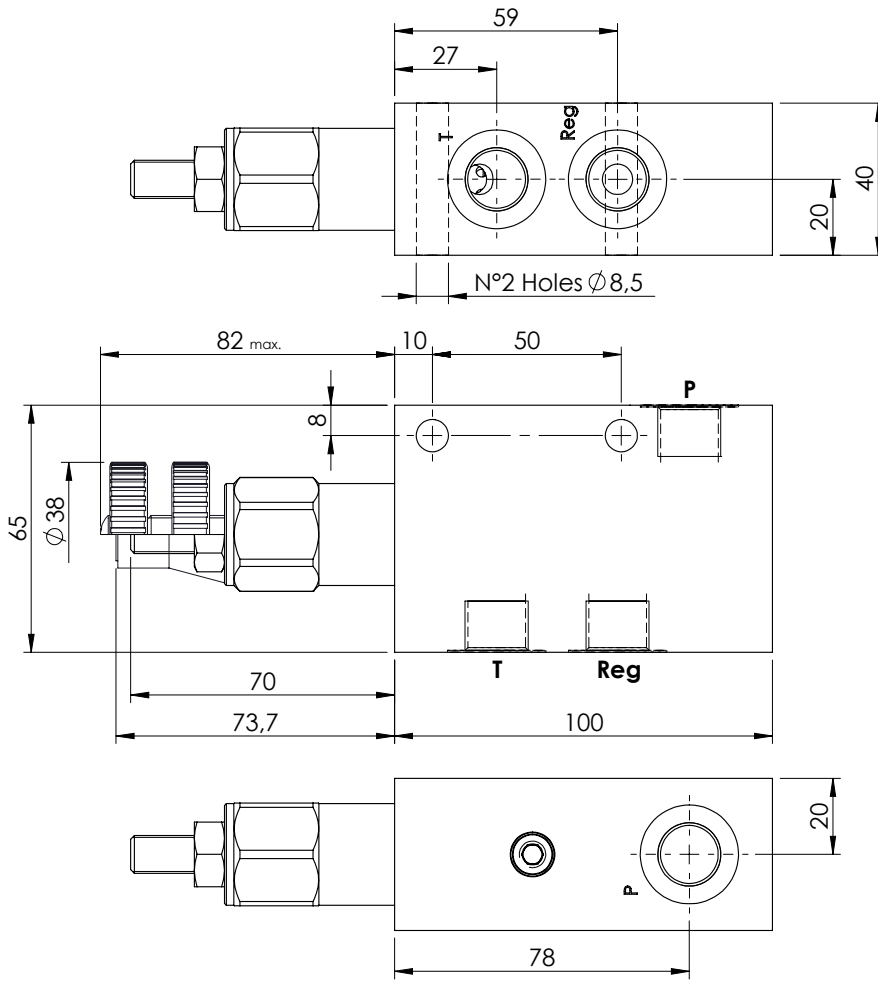
**ORDERING CODES**

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CR000020	CPRL-140-PNNR-HN-S12-N350	300	140-350	114	Adjustment with Screw
CR000019	CPRL-140-PNNR-HN-S12-N200	200	70-250	69	Adjustment with Screw
CR000018	CPRL-140-PNNR-HN-S12-N100	100	10-140	37	Adjustment with Screw

**PRESSURE REDUCING AND RELIEVING IN BODY**

**KPRL-030-DNNR**

**DIRECT/PILOT ACTING  
SPOOL TYPE**



KR00011  
KR00012  
KR00013  
KR00014

KR00015  
KR00016

**SPECIFICATIONS**

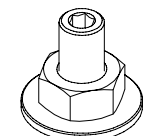
Max. operating pressure:	250 bar
Rated flow:	30 l/min - 60 l/min
Cavity:	SAE-10-3N
Weight:	0,87 Kg
Leakage direct:	50cm <sup>3</sup> @ 50 bar
Manifold:	Aluminium

**SEALING CAP**

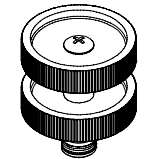
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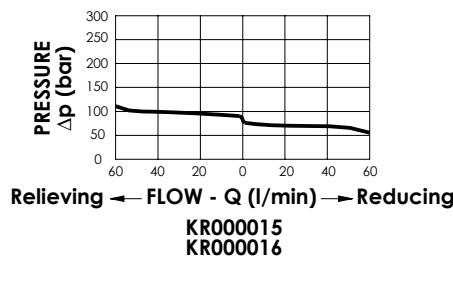
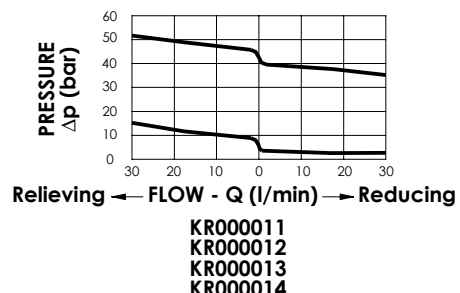
**OPTIONS**



Adjustment with Screw



Adjustment with Handknob



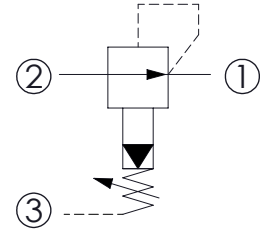
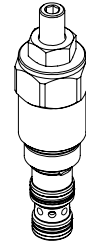
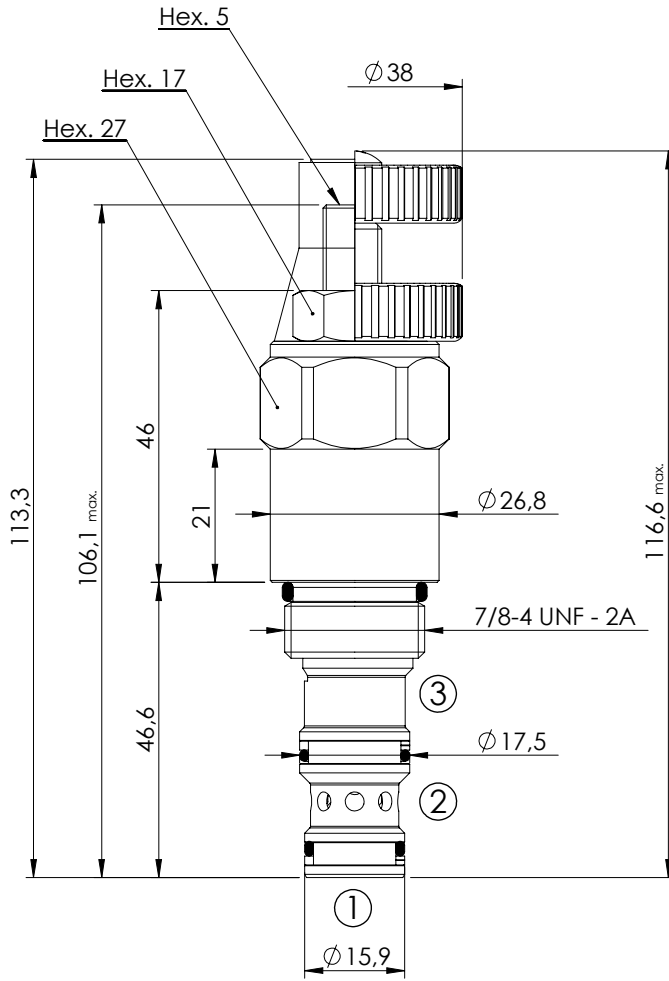
**ORDERING CODES**

Quick code	Description	Ports	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
KR00011	KPRL-030-DNNR-HN-G38-N250	G 3/8"	5	1.5-15	1.6	Adjustment with Screw
KR00012	KPRL-030-DNNR-VN-G38-N250	G 3/8"	5	1.5-15	1.6	Adjustment with Handknob
KR00013	KPRL-030-DNNR-HN-G38-N250	G 3/8"	35	10-50	7	Adjustment with Screw
KR00014	KPRL-030-DNNR-VN-G38-N250	G 3/8"	35	10-50	7	Adjustment with Handknob
KR00015	KPRL-060-PNNR-HN-G38-N250	G 3/8"	80	20-110	37	Adjustment with Screw
KR00016	KPRL-060-PNNR-VN-G38-N250	G 3/8"	80	20-110	37	Adjustment with Handknob

**PRESSURE REDUCING**

**CPRR-060-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

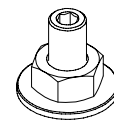
Max. operating pressure:	350 bar
Rated flow:	60 l/min
Cavity:	SAE-10-3N
Weight:	0,26 kg
Installation torque:	55 - 62 Nm
Seal kit:	RA700092

**SEALING CAP**

Ordering code:  
**AT000022**



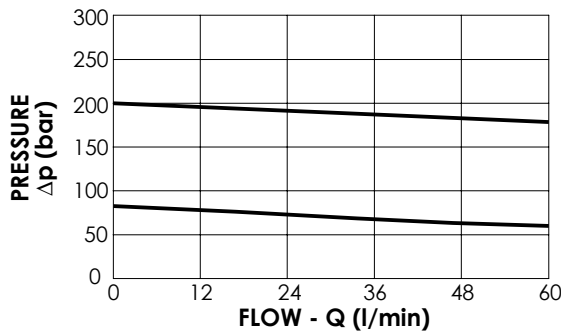
**OPTIONS**



**Adjustment  
with Screw**



**Adjustment  
with Handknob**



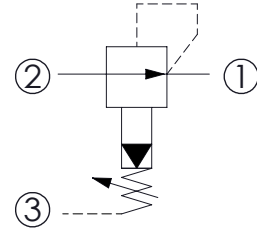
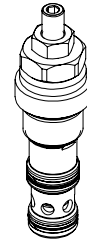
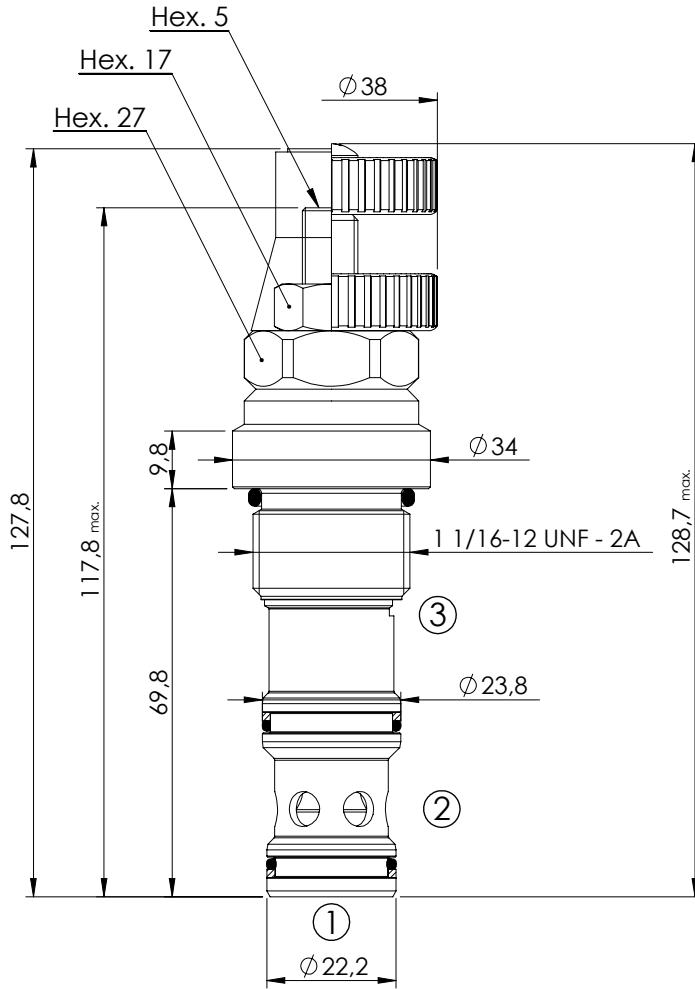
**ORDERING CODES**

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CR000022	CPRR-060-PNNR-HN-S10-N300	200	70-350	114	Adjustment with Screw
CR000023	CPRR-060-PNNR-VN-S10-N300	200	70-350	114	Adjustment with Handknob
CR000024	CPRR-060-PNNR-HN-S10-N100	80	20-110	37	Adjustment with Screw
CR000021	CPRR-060-PNNR-VN-S10-N100	80	20-110	37	Adjustment with Handknob

**PRESSURE REDUCING**

**CPRR-140-PNNR**

**PILOT OPERATED  
SPOOL TYPE**



**SPECIFICATIONS**

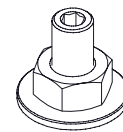
Max. operating pressure:	350 bar
Rated flow:	140 l/min
Cavity:	SAE-12-3N
Weight:	0,35 kg
Installation torque:	80 - 95 Nm
Seal kit:	RA700093

**SEALING CAP**

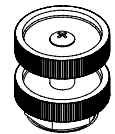
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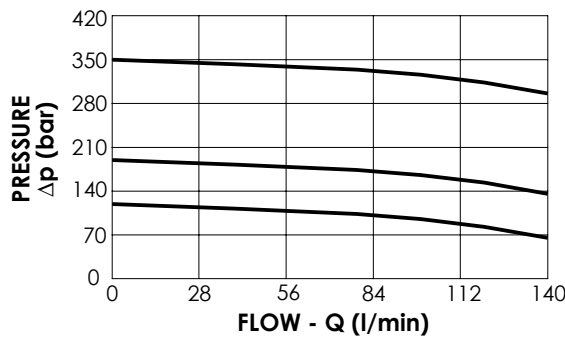
**OPTIONS**



Adjustment  
with Screw



Handknob  
and locknut



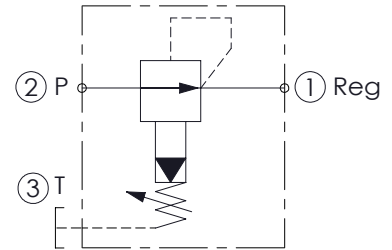
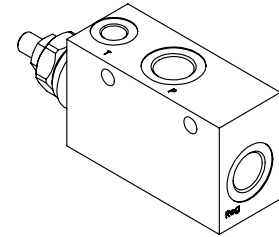
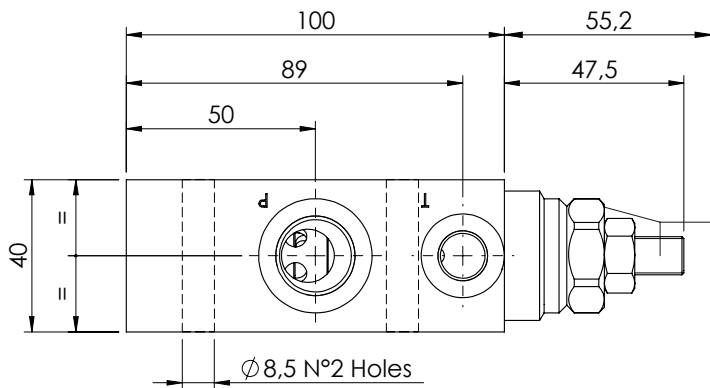
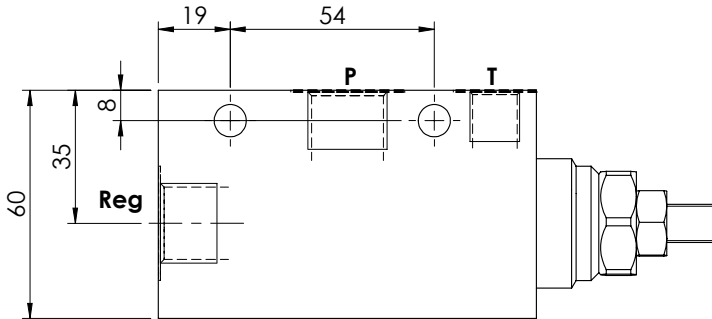
**ORDERING CODES**

Quick code	Description	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
CR000017	CPRR-140-PNNR-HN-S12-N350	300	140-350	114	Adjustment with Screw
CR000030	CPRR-140-PNNR-VN-S12-N350	300	140-350	114	Adjustment with Handknob
CR000016	CPRR-140-PNNR-HN-S12-N200	200	70-210	69	Adjustment with Screw
CR000027	CPRR-140-PNNR-VN-S12-N200	200	70-210	69	Adjustment with Handknob
CR000015	CPRR-140-PNNR-HN-S12-N100	100	10-120	37	Adjustment with Screw
CR000031	CPRR-140-PNNR-VN-S12-N100	100	10-120	37	Adjustment with Handknob

**PRESSURE REDUCING IN BODY**

**KPRR-140-PNNR**

**PILOT OPERATED  
SPOOL TYPE**

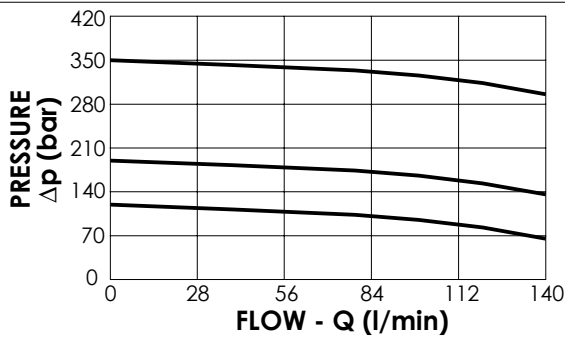
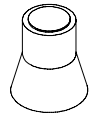


**SPECIFICATIONS**

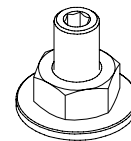
Max. operating pressure:	250 bar
Rated flow:	140 l/min
Cavity:	SAE-12-3N
Weight:	0.8 kg
Manifold:	Aluminium

**SEALING CAP**

Ordering code:  
**AT000022**



**OPTIONS**



**Adjustment  
with Screw**

**ORDERING CODES**

Quick code	Description	Ports	Standard setting (bar)	Adjust. range (bar)	Pressure increase (bar/turn)	Options
KR000017	KPRR-140-PNNR-HN-G12-N350	P-Reg : G 1/2" T : G 1/4"	300	140-350	114	Adjustment with Screw
KR000019	KPRR-140-PNNR-HN-G12-N200	P-Reg : G 1/2" T : G 1/4"	200	70-210	69	Adjustment with Screw
KR000018	KPRR-140-PNNR-HN-G12-N100	P-Reg : G 1/2" T : G 1/4"	100	10-120	37	Adjustment with Screw