

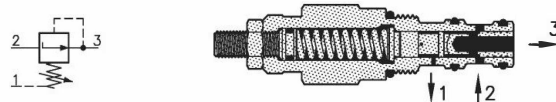
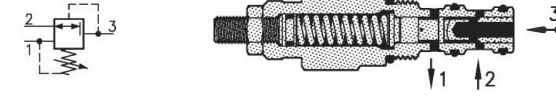
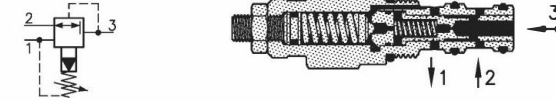
Pressure reducing valves.

They are indispensable when it's necessary to operate with different pressure in one-pump circuit.
Are divided into two execution-types: direct acting and pilot operated.

DIRECT ACTING: They are produced only in series 20 and are suitable for narrow flows and reduced maximal pressure of 105 bar. They distinguish themselves by their very low leakage and good tolerance at oil contaminations.

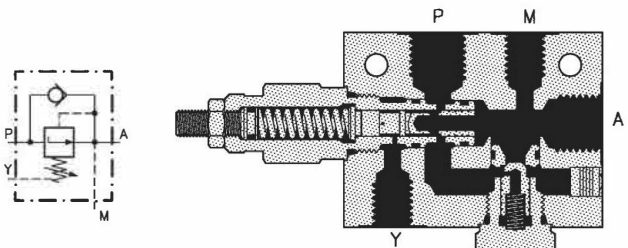
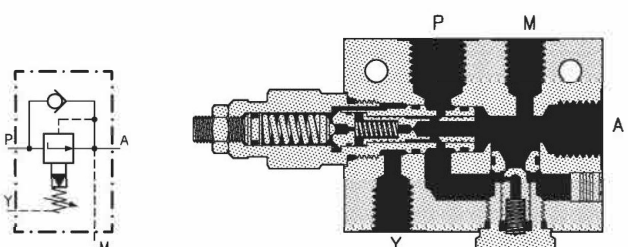
PILOT OPERATED: Are used when higher flows or high pressure are required; more sensitive at oil contaminations have constant drain flow of 0.4-0.6 l/min.

03

Main features	Type	Q max. (l/min.)	P / Pr (bar)	Technical schedule
RPA series – direct acting spool-type. Fast acting, good stability, impurity endurance, particularly suitable for narrow flows and reduced low pressure (max. 80 bar). 	RPA 20	20	420/80	03.020
RLY series – pilot operated spool-type. Very good stability, large ports for high flows and applications with wide range of reduced pressure regulation. 	RLY 30	40	420/210	03.030
	RLY 50	90	420/210	03.040
	RLY 70	160	420/210	03.050
RLD series – direct acting spool-type. Have the same features of reducing pressure valves series RPA 20, but they act as pressure relief valves with flow from 3 to 1. 	RLD 20	16	420/80	03.060
RLP series – pilot operated spool-type. Have the same features of reducing pressure valves series RLY, but they act as pressure relief valves with flow from 3 to 1. 	RLP 30	40	420/210	03.070
	RLP 50	90	420/210	03.080
	RLP 70	160	420/210	03.090

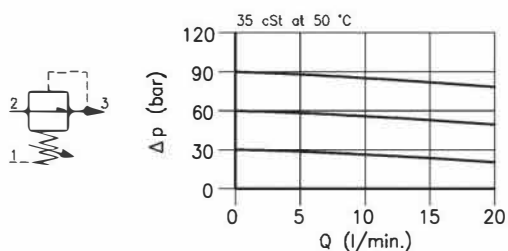
03_000

03

Main features	Type	Q max. (l/min.)	P / Pr (bar)	Technical schedule
RPA 20 series CSL 11 circuit. They are assembled in one body and combined with one check valve which allows the freflow itself to move in direction from A to P. 	RPA 20 CSL 11	20	420/90	03.100
RLY series CSL 11 circuit. They are assembled in one body and combined with one check valve which allows the free-flow itself to move in direction from A to P. 	RLY 30 CSL 11	40	420/210	03.110
	RLY 50 CSL 11	90	420/210	03.120
	RLY 70 CSL 11	160	420/210	03.130

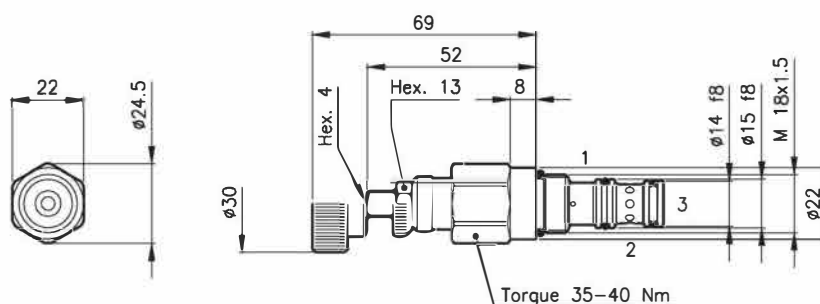
03_001

Technical features



Cavity	(For dimensions see catalogue 17.000)	S 20/3
Max. flow	(l/min.)	20
Max. inlet pressure	(bar)	420
Pressure setting range	(bar)	5 – 140
Max. drain	(l/min.)	0.05
Fluid viscosity range	(cSt)	2.8 – 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	0.160
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolutes)		
Standard seals in Polyurethane and Buna N		

Dimensions



Ordering informations

RPA 20/D-N

RPA 20 = Valve type



Standard springs

Type	Setting range	Factory set
U	5 – 30 bar	20 bar
D	14 – 60 bar	40 bar
T	35 – 90 bar	70 bar
Q	50 – 140 bar	100 bar

Adjustment type

N = Standard adjustment

V = Handknob adjustment



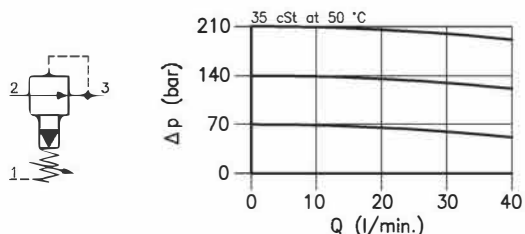
Codes:

RPA 20/U-N	21 011 113
RPA 20/D-N	21 011 114
RPA 20/T-N	21 011 115
RPA 20/Q-N	21 011 291
RPA 20/U-V	21 011 116
RPA 20/D-V	21 011 117
RPA 20/T-V	21 011 118
RPA 20/Q-V	21 011 339

External seals kit 90 620 101

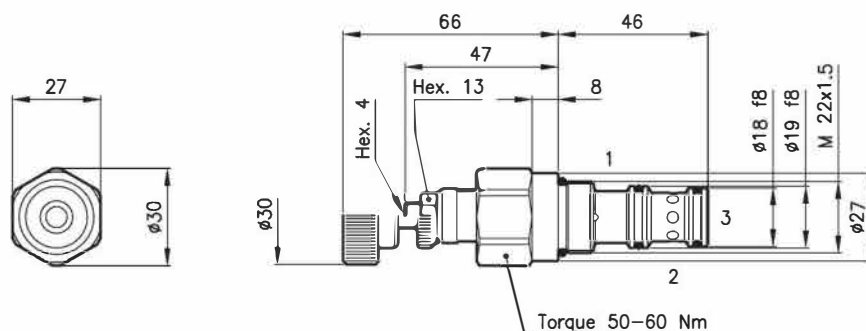
RPA 20 valves can be assembled on standard bodies 20-C3 series; for dimensions see catalogue 16.010

Technical features



Cavity	(For dimensions see catalogue 17.000)	S 30/3
Max. flow	(l/min.)	40
Max. inlet pressure	(bar)	420
Pressure setting range	(bar)	10 – 210
Max. drain	(l/min.)	0.4 – 0.6
Fluid viscosity range	(cSt)	2.8 – 380
Fluid temperature range	(°C)	–20 +80
Mass	(kg)	0.200
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolutes)		
Standard seals in Polyurethane and Buna N		

Dimensions



Ordering informations

RLY 30/D-N

RLY 30 = Valve type



Standard spring

Type	Setting range	Factory set
D	10 – 210 bar	140 bar

Adjustment type

N = Standard adjustment

V = Handknob adjustment

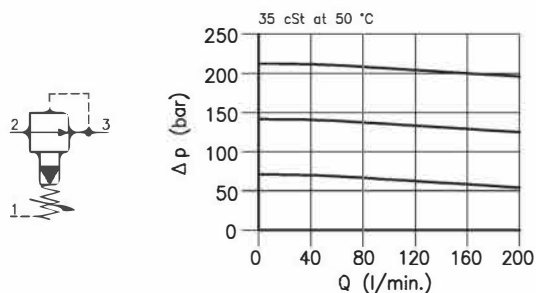


Codes:

RLY 30/D-N	31 011 120
RLY 30/D-V	31 011 129
External seals kit	90 620 104

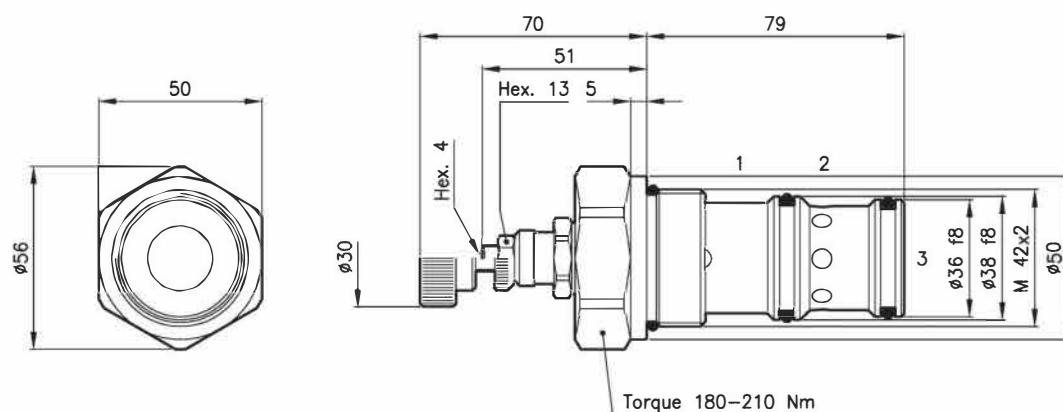
RLY 30 valves can be assembled on standard bodies 30-C3 series; for dimensions see catalogue 16.010

Technical features



Cavity	(For dimensions see catalogue 17.000)	S 70/3
Max. flow	(l/min.)	160
Max. inlet pressure	(bar)	420
Pressure setting range	(bar)	10 – 210
Max. drain	(l/min.)	0.4 – 0.6
Fluid viscosity range	(cSt)	2.8 – 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	0.700
Standard setting obtains with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolutes)		
Standard seals in Polyurethane and Buna N		

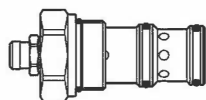
Dimensions



Ordering informations

RLY 70/D-N

RLY 70 = Valve type



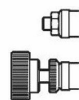
Standard springs

Type	Setting range	Factory set
D	= 10 – 210 bar	140 bar

Adjustment type

N = Standard adjustment

V = Handknob adjustment

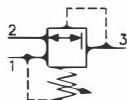
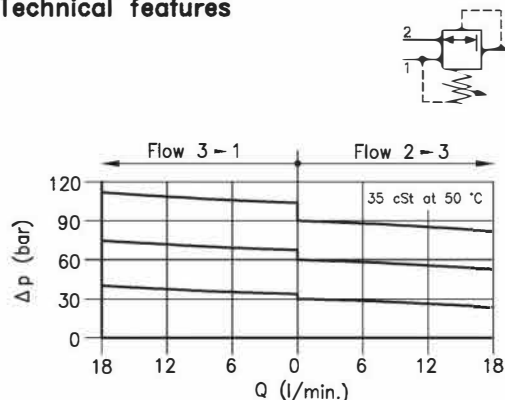


Codes:

RLY 70/D-N	71 011 106
RLY 70/D-V	71 011 107
External seals kit	90 620 120

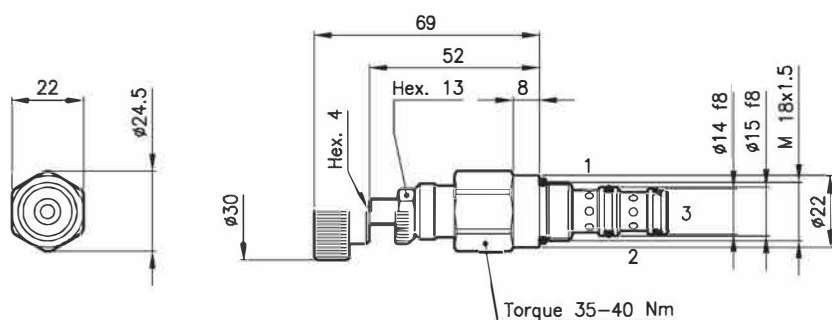
RLY 70 valves can be assembled on standard bodies 70-C3 series; for dimensions see catalogue 16.010

Technical features



Cavity	(For dimensions see catalogue 17.000)	S 20/3
Max. flow	(l/min.)	16
Max. inlet pressure	(bar)	420
Pressure setting range	(bar)	5 - 90
Max. drain	(l/min.)	0.1
Fluid viscosity range	(cSt)	2.8 - 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	0.160
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolute)		
Standard seals in Polyurethane and Buna N		

Dimensions



Ordering informations

RLD 20/D-N

RLD 20 = Valve type



Standard springs

Type	Setting range	Factory set
U	5 - 30 bar	20 bar
D	14 - 60 bar	40 bar
T	35 - 90 bar	70 bar

Adjustment type

N = Standard adjustment

V = Handknob adjustment



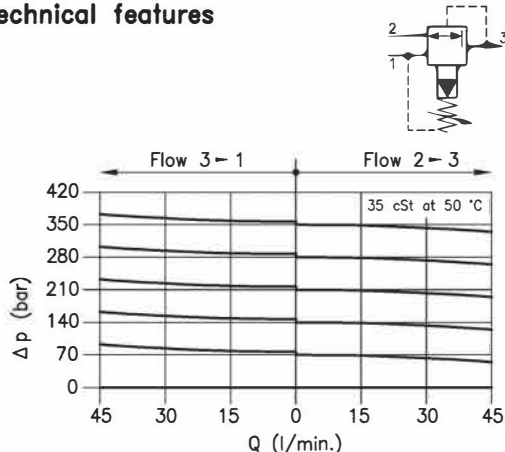
Codes:

RLD 20/U-N	21 011 148
RLD 20/D-N	21 011 149
RLD 20/T-N	21 011 150
RLD 20/U-V	21 011 151
RLD 20/D-V	21 011 152
RLD 20/T-V	21 011 153

External seals kit 90 620 101

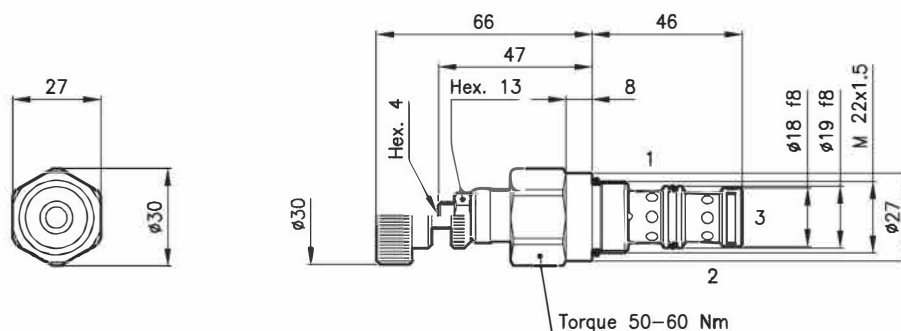
RLD 20 valves can be assembled on standard bodies 20-C3 series; for dimensions see catalogue 16.010

Technical features



Cavity	(For dimensions see catalogue 17.000)	S 30/3
Max. flow	(l/min.)	40
Max. inlet pressure	(bar)	420
Pressure setting range	(bar)	10 – 420
Max. drain	(l/min.)	0.4 – 0.6
Fluid viscosity range	(cSt)	2.8 – 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	0.200
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolutes)		
Standard seals in Polyurethane and Buna N		

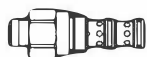
Dimensions



Ordering informations

RLP 30/D-N

RLP 30 = Valve type



Standard spring

Type	Setting range	Factory set
D	10 – 210 bar	140 bar
Q	105 – 420 bar	315 bar

Adjustment type

- N** = Standard adjustment
V = Handknob adjustment



Codes:

RLP 30/D-N	31 011 115
RLP 30/Q-N	31 011 239
RLP 30/D-V	31 011 116
RLP 30/Q-V	31 011 244
External seals kit	90 620 104

RLP 30 valves can be assembled on standard bodies 30-C3 series; for dimensions see catalogue 16.010

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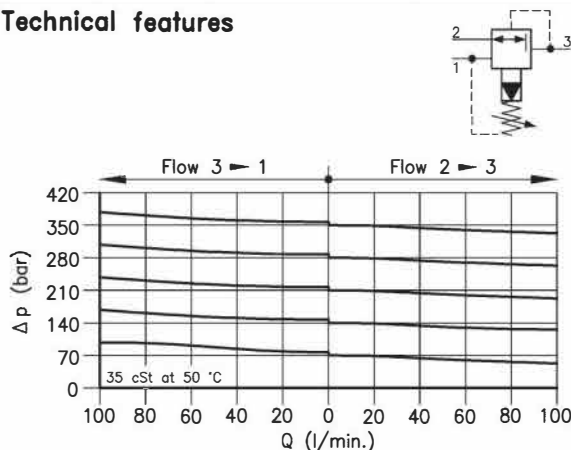
PRESSURE REDUCING AND RELIEVING VALVES
RLP 50

PILOT OPERATED

03.080

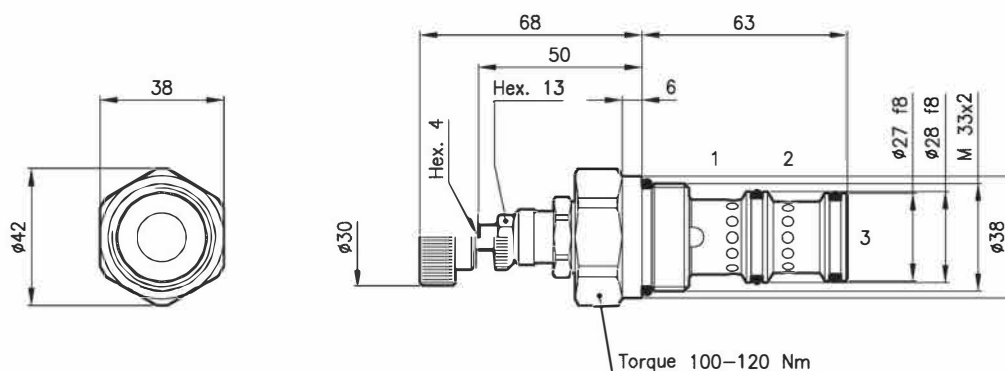
01.02

Technical features



Cavity	(For dimensions see catalogue 17.000)	S 50/3
Max. flow	(l/min.)	90
Max. inlet pressure	(bar)	420
Pressure setting range	(bar)	14 – 420
Max. drain	(l/min.)	0.4 – 0.6
Fluid viscosity range	(cSt)	2.8 – 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	0.400
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolutes)		
Standard seals in Polyurethane and Buna N		

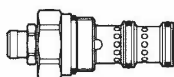
Dimensions



Ordering informations

RLP 50/D-N

RLP 50 = Valve type



Standard spring

Type	Setting range	Factory set
D	= 14 – 210 bar	140 bar
Q	= 105 – 420 bar	315 bar

Adjustment type

N = Standard adjustment

V = Handknob adjustment

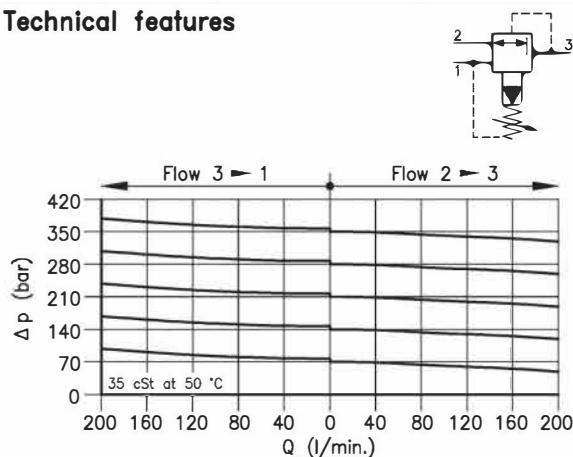


Codes:

RLP 50/D-N	51 011 109
RLP 50/Q-N	51 011 159
RLP 50/D-V	51 011 110
RLP 50/Q-V	51 011 160
External seals kit	90 620 107

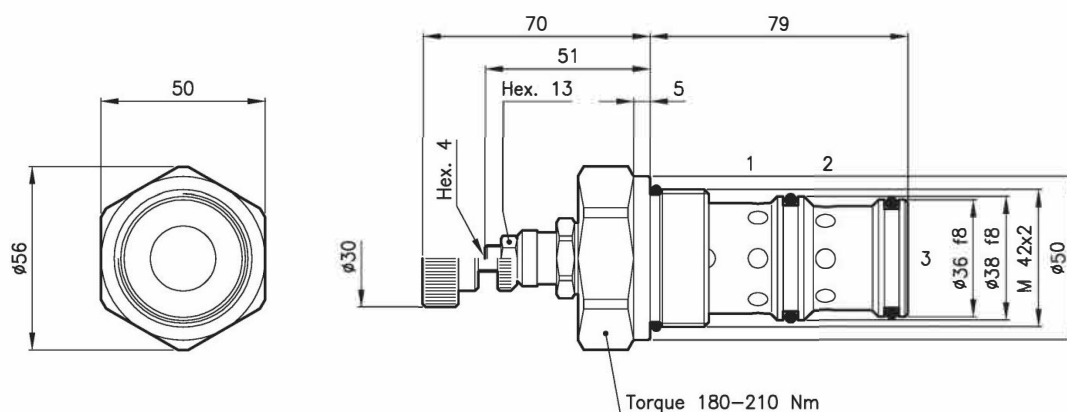
RLP 50 valves can be assembled
on standard bodies 50-C3 series;
for dimensions see catalogue 16.010

Technical features



Cavity	(For dimensions see catalogue 17.000)	S 70/3
Max. flow	(l/min.)	160
Max. inlet pressure	(bar)	420
Pressure setting range	(bar)	14 – 420
Max. drain	(l/min.)	0.4 – 0.6
Fluid viscosity range	(cSt)	2.8 – 380
Fluid temperature range	(°C)	–20 +80
Mass	(kg)	0.700
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolutes)		
Standard seals in Polyurethane and Buna N		

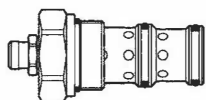
Dimensions



Ordering informations

RLP 70/D-N

RLP 70 = Valve type



Standard spring

Type	Setting range	Factory set
D	14 – 210 bar	140 bar
Q	105 – 420 bar	315 bar

Adjustment type

N = Standard adjustment

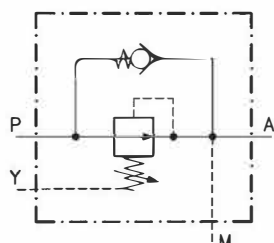
V = Handknob adjustment



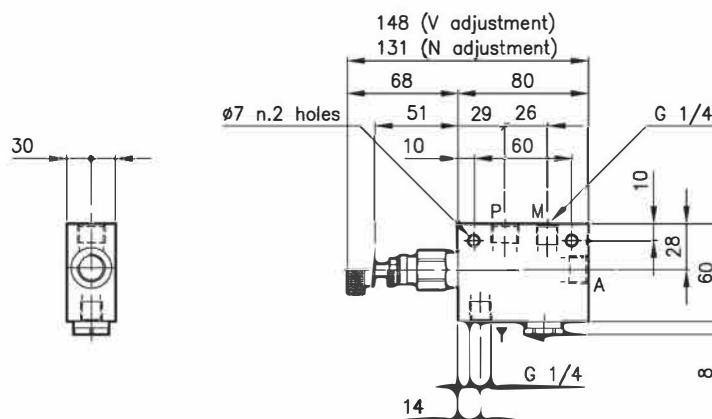
Codes:

RLP 70/D-N	71 011 108
RLP 70/Q-N	71 011 160
RLP 70/D-V	71 011 109
RLP 70/Q-V	71 011 161
External seals kit	90 620 120

RLP 70 valves can be assembled on standard bodies 70-C3 series; for dimensions see catalogue 11.010

Technical features


Valves	(For features see catalogue 03.020)	RPA 20
	(For features see catalogue 05.050)	CAE 20/P
Max. flow	(l/min.)	20
Max. pressure in P	(bar)	420
Pressure setting range	(bar)	5 - 90
Fluid viscosity range	(cSt)	2.8 - 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	0.620
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM e HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 µm absolutes)		
Standard seals in Polyurethane and Buna N		

Dimensions

Ordering informations
RPA 20/D-N-CSL 11-B06

Valve type

Standard springs

Type Setting range

U = 5 - 30 bar

D = 14 - 60 bar

T = 35 - 90 bar

Adjustment type

N = Standard adjustment

V = Handknob adjustment

Version

Standard ports (P-A)

B05 = G 1/4 ISO 228

B06 = G 3/8 ISO 228

Codes:

RPA 20/U-N-CSL 11-B05 21 011 159

RPA 20/D-N-CSL 11-B05 21 011 160

RPA 20/T-N-CSL 11-B05 21 011 161

RPA 20/U-V-CSL 11-B05 21 011 162

RPA 20/D-V-CSL 11-B05 21 011 163

RPA 20/T-V-CSL 11-B05 21 011 164

RPA 20/U-N-CSL 11-B06 21 011 165

RPA 20/D-N-CSL 11-B06 21 011 166

RPA 20/T-N-CSL 11-B06 21 011 167

RPA 20/U-V-CSL 11-B06 21 011 168

RPA 20/D-V-CSL 11-B06 21 011 169

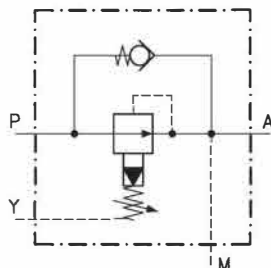
RPA 20/T-V-CSL 11-B06 21 011 170

Only body codes:

Body type 20-CSL 11-B05 28 144 114

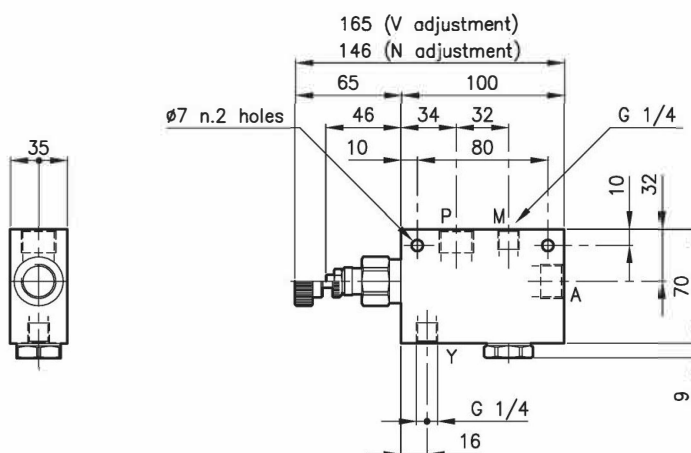
Body type 20-CSL 11-B06 28 144 115

Technical features



Valves	(For features see catalogue 03.030)	RLY 30
	(For features see catalogue 05.060)	CAE 30/P
Max. flow	(l/min.)	40
Max. pressure in P	(bar)	420
Pressure setting range	(bar)	10 - 210
Fluid viscosity range	(cSt)	2.8 - 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	0.980
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 µm absolutes)		
Standard seals in Polyurethane and Buna N		

Dimensions



Ordering informations

RLY 30/D-N-CSL 11-B08

Valve type _____

Standard spring _____

Type Setting range

D = 10 - 210 bar _____

Adjustment type

N = Standard adjustment 

V = Handknob adjustment 

Version _____

Standard ports (P-A)

B06 = G 3/8 ISO 228 _____

B08 = G 1/2 ISO 228 _____

Codes:

RLY 30/D-N-CSL 11-B06	31 011 167
RLY 30/D-V-CSL 11-B06	31 011 168
RLY 30/D-N-CSL 11-B08	31 011 169
RLY 30/D-V-CSL 11-B08	31 011 170

Only body codes:

Body type 30-CSL 11-B06	38 144 125
Body type 30-CSL 11-B08	38 144 126

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PRESSURE REDUCING VALVES

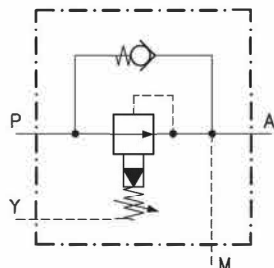
WITH BY-PASS

RLY 50/CSL 11

03.120

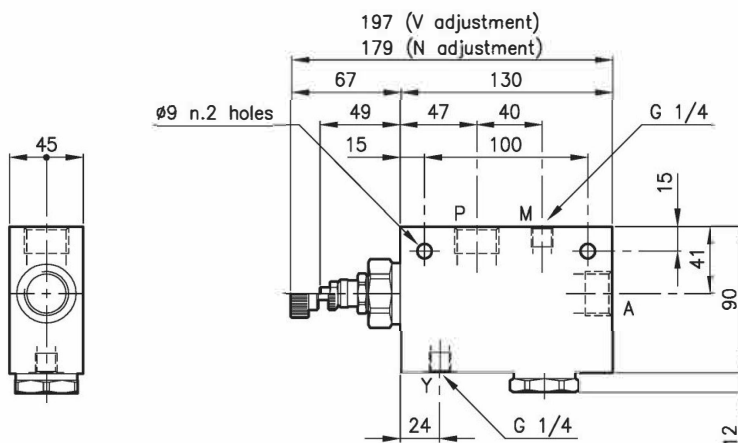
01.04

Technical features



Valves	(For features see catalogue 03.040)	RLY 50
	(For features see catalogue 05.070)	CAE 50/P
Max. flow	(l/min.)	90
Max. pressure in P	(bar)	420
Pressure setting range	(bar)	10 - 210
Fluid viscosity range	(cSt)	2.8 - 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	2.100
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 µm absolutes)		
Standard seals in Polyurethane and Buna N		

Dimensions



Ordering informations

RLY 50/D-N-CSL 11-B12

Valve type _____

Standard spring _____

Type Setting range
D = 10 - 210 bar _____

Adjustment type
N = Standard adjustment 
V = Handknob adjustment 

Version _____

Standard ports
B08 = G 1/2 ISO 228 _____
B12 = G 3/4 ISO 228 _____

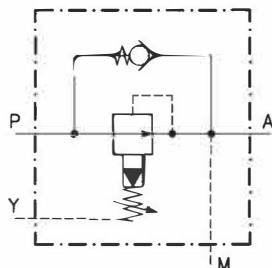
Codes:

RLY 50/D-N-CSL 11-B08	51 011 144
RLY 50/D-V-CSL 11-B08	51 011 145
RLY 50/D-N-CSL 11-B12	51 011 146
RLY 50/D-V-CSL 11-B12	51 011 147

Only body codes:

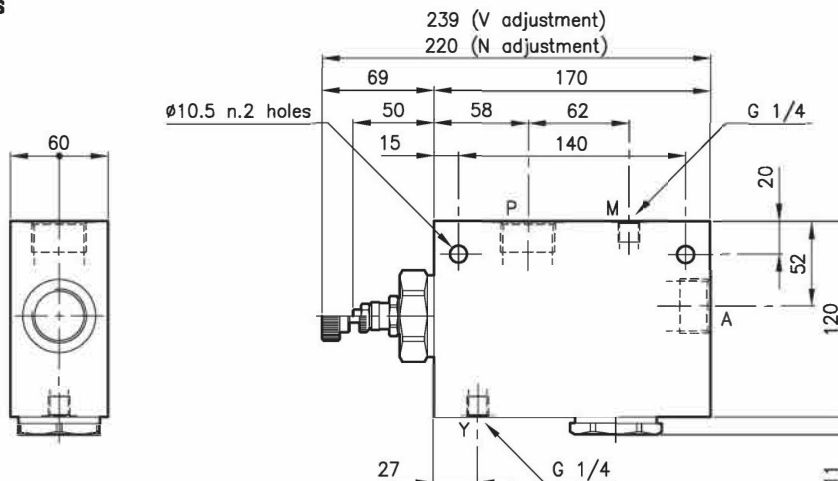
Body type 50-CSL 11-B08	58 144 117
Body type 50-CSL 11-B12	58 144 118

Technical features



Valves	(For features see catalogue 03.050)	RLY 70
	(For features see catalogue 05.080)	CAE 70/P
Max. flow	(l/min.)	160
Max. pressure in P	(bar)	420
Pressure setting range	(bar)	10 - 210
Fluid viscosity range	(cSt)	2.8 - 380
Fluid temperature range	(°C)	-20 +80
Mass	(kg)	4.600
Standard setting obtained with 1 l/min.		
Hydraulic fluid; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 µ absolutes)		
Standard seals in Polyurethane and Buna N		

Dimensions



Ordering informations

RLY 70/D-N-CSL 11-B20

Valve type

Standard spring

Type Setting range

D = 10 - 210 bar

Adjustment type

N = Standard adjustment

V = Handknob adjustment

Version

Standard ports

B16 = G 1 ISO 228

B20 = G 1.1/4 ISO 228

Codes:

RLY 70/D-N-CSL 11-B16 71 011 146

RLY 70/D-V-CSL 11-B16 71 011 147

RLY 70/D-N-CSL 11-B20 71 011 148

RLY 70/D-V-CSL 11-B20 71 011 149

Only body codes:

Body type 70-CSL 11-B16 78 144 108

Body type 70-CSL 11-B20 78 144 109