FLUCOM ITALY

DIFFERENTIAL AREA UNLOADING RELIEF VALVES

DIRECT ACTING

LCS 20

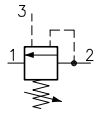
04.075

01.04

Technical features

LCS 20 valve are mainly used to charge accumulators or for pump unloading in hight–low pressure circuits.
They allow the automatic pump's by–pass as the circuit pressure reaches the setting value. The valve closes when this value drops at 88% and pump starts charging the accumulator. LCS 20 valve also act as pressure relieving on main circuit and alweys must be combined with logical elements:

– version ELP .. P1 (hight–low pressure)
– version ELP 30/D3–1.23 (accumulators)



Calculation of Pr value

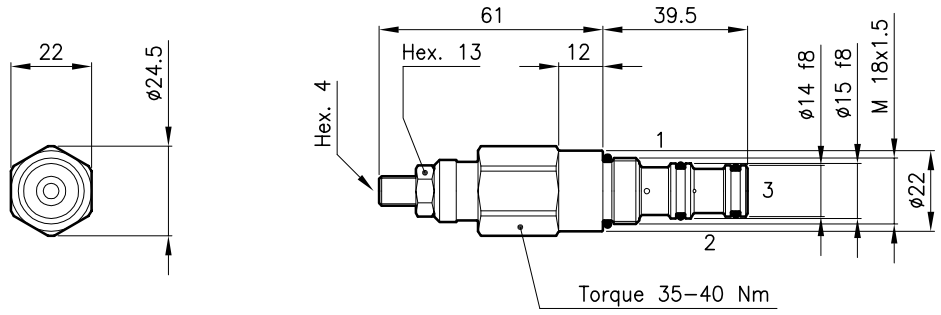
$$Pr = \frac{P\ d}{100}$$

Where:

Pr = Reseat pressure (bar)
P = Setting pressure (bar)
d = Differential area

Cavity (For dimensions see catalogue 17.000)		S 20/3
Max. flow	(l/min.)	1.5
Max. pressure	(bar)	350
Adjustment range	(bar)	10 – 315
Differential area (d)	%	88 ± 1.5%
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 flow; mineral oil HM and HV ISO 6074		
Recommended filtration; 19/15 ISO 4466 (25 μ absolutes)		
Standard seals in Polyurethane and Buna N		

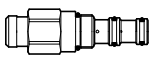
Dimensions



Ordering informations

LCS 20/D–N

LCS 20 = Valve type



Standard springs

Type	Setting range	Factory set
D =	10 – 210 bar	140 bar
Q =	70 – 315 bar	210 bar

Adjustment type

N = Standard adjustment

Codes:

LCS 20/D–N	21 011 268
LCS 20/Q–N	21 011 269
External seals kit	90 620 101

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