

ELECTRICAL OPERATIONS

Design	Solenoid, wet pin push type, pressure tight
Nominal voltage	$U_N = 12 \text{ VDC}, 24 \text{ VDC}$ $U_N = 110 \text{ VAC}^*, 115 \text{ VAC}^*, 230 \text{ VAC}^*$ $AC = 50 \text{ to } 60 \text{ Hz}$ * Connector plug with integrated rectifier
Voltage tolerance	$\pm 10\%$ of nominal voltage
Protection class	IP 65 according to EN 60 529
Relative duty factor	100% ED (see data sheet 1.1-430)
Switching cycles	15'000/h
Operating life (number of switching cycles)	10^7

Connection/Power supply	Over device plug connection EN 175301-803 (DIN 43650) ISO 4400 (2 P+E), construction type A, other connections on request
Solenoid type:	– Medium SIN35V (data sheet 1.1-105)

OPERATING PRESSURE

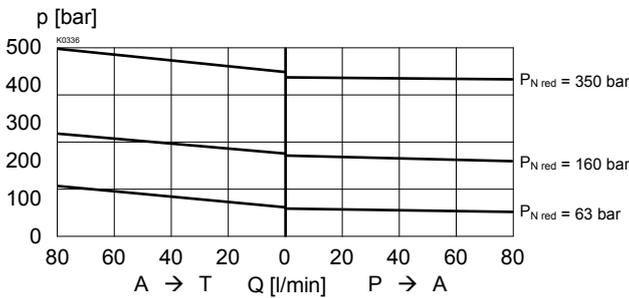
The desired operating pressure is set by means of a knob and is only reached with the solenoid activated.

Pressure adjustment:

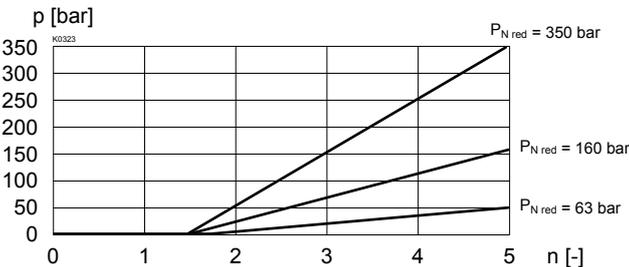
Actuation stroke	$S_b = 2,5 \text{ mm}$
Actuation angle	$\alpha_b = 1080^\circ$ (3 revolutions)

CHARACTERISTICS oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$

$p_{\text{red}} = f(Q)$ Pressure volume flow characteristics
(Maximal adjustable pressure)

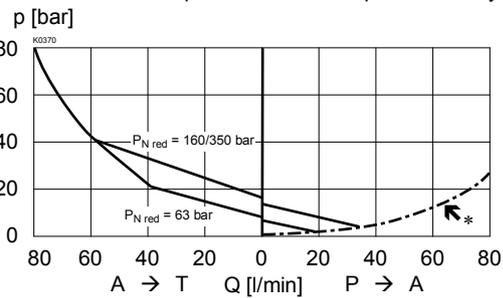


$p_{\text{red}} = f(n)$ Pressure adjustment characteristics
[at $Q = 0 \text{ l/min}$ (static)]

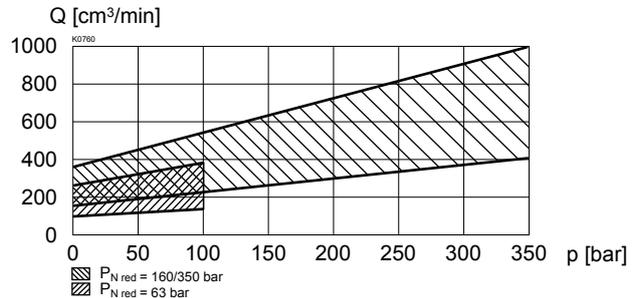


$p_{\text{red}} = f(Q)$ Pressure volume flow characteristics
(Minimal adjustable pressure)

* Consumption resistance dependent on system



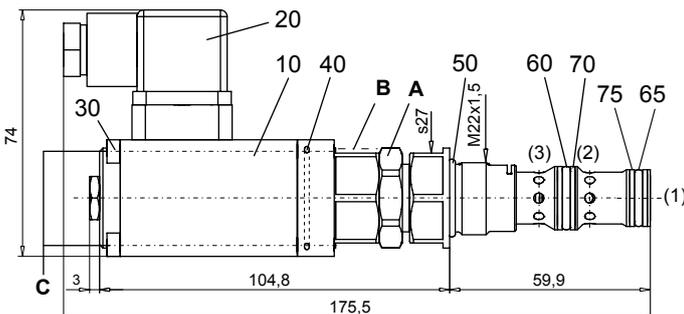
$Q_{\text{st}+L} = f(p)$ Pilot- and leakage volume flow characteristics
[A (1) → T (3)]
(Pressure in P (2) = 350 bar)


SECTIONAL DRAWING/PRESSURE ADJUSTMENT

For detailed cavity drawing ISO 7789–22–04–0–98 and cavity tools see data sheet 2.13-1004

The reduced pressure can only be adjusted with the solenoid activated.

- 1) Loose lock nut **A**
- 2) Turn knob **B** and solenoid until required system pressure is adjusted
- 3) Fix turning knob **B** with lock nut **A**
- 4) Loose screws **C** slightly, turn solenoid into required position.
(Attention: Solenoid stays under tank pressure.)
- 5) Tighten screws **C** with torque (M_b 2,8 Nm)


PARTS LIST

Position	Article	Description
10	260.4...	Solenoid SIN35V-...-L18
20	219.2002	Plug (black)
30	249.1007	Socket head cap screw M4x63
40	160.2283	O-ring ID 28,3x1,78
50	160.2188	O-ring ID 18,77x1,78
60	160.2156	O-ring ID 15,60x1,78
65	160.2140	O-ring ID 14,00x1,78
70	049.3196	Back-up ring RD 16,1x19x1,4
75	049.3176	Back-up ring RD 14,1x17x1,4

ACCESSORIES

Flange-/sandwich plate NG4-Mini	Data sheet 2.2-620
Flange-/sandwich plate NG6	Data sheet 2.2-640
Flange-/sandwich plate NG10	Data sheet 2.2-660
Line mount body	Data sheet 2.9-210

Technical explanation see data sheet 1.0-100