Catalogue HY11-3500/UK Characteristics

The proportional pressure relief valve series RE*E*W consists of a proportional pilot stage and a slip-in cartridge main stage. A mechanical maximum pressure stage is optionally available. For sizes NG25, NG32 and NG40 a screw-in cartridge is used, for sizes NG50 and NG63 an additional sandwich unit.

The RE*W model code embraces the pilot valves, covers and cartridges that are also offered as separate items. See combination examples for details.

In combination with the digital power amplifier PC-D00A-400 the valve parameters can be saved, changed and duplicated.

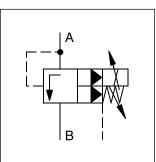
Features

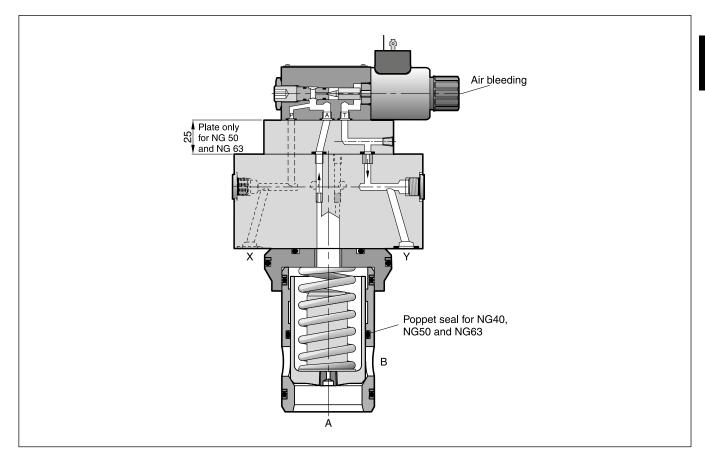
- · Pilot operated with proportional solenoid
- Continuous adjustment by proportional solenoid
- Optional mechanical max. pressure stage
- · Cavity and mounting pattern according to ISO 7368
- 4 pressure stages
- 6 sizes, NG16 to NG63

Note

Port X only usable for remote control.







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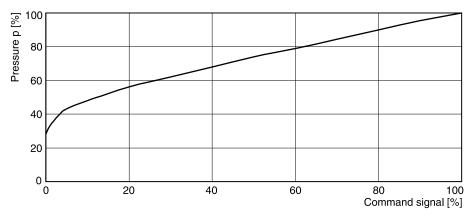
RE E W 1 S 1 W	Ordering code											
16 NG16 25 NG25 32 NG32 40 ¹) NG40 50 ¹) NG50 63 ¹) NG63 Code Pressure stages 10 up to 105 bar 17 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar	Prop pressu relief	. Nominal Slip ire size mou f ISO	p-in Press	sure Off-board	(pilot int.,	Poppet	Seal	-	lenoid	Without Op	otions	• •
25 NG25 32 NG32 40 1) NG40 50 1) NG50 63 1) NG63 Code Pressure stages 10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar	Code	Nominal size									Code	e Spool type
32 NG32 40 1) NG40 50 1) NG50 63 1) NG63 Code 0 up to 105 bar 10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar	16	NG16									omit	t Standard
32 NG32 40 ¹⁾ NG40 50 ¹⁾ NG50 63 ¹⁾ NG63 Code Pressure stages 10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar	25	NG25									507	with poppet
50 1) NG50 63 1) NG63 Code Pressure stages 10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar Code Code Code Code Code Code Solenoid K 12 V, 2.1 A X 16 V, 1.3 A Code Seal N NBR N NBR	32	NG32									007	seals
50 17 NG50 63 1) NG63 Code Pressure stages 10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar Code Solenoid K 12 V, 2.1 A X 16 V, 1.3 A Code Seal N NBR M TDN1	40 ¹⁾	NG40									Codo	Ontiona
63 ¹) NG63 Code Pressure stages 10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar Code Solenoid K 12 V, 2.1 A X 16 V, 1.3 A Code Seal N NBR		NG50										
Code Pressure stages 10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar Code Seal N NBR	63 ¹⁾	NG63									omit	
10 up to 105 bar 17 up to 175 bar 25 up to 250 bar 35 up to 350 bar Code Solenoid K 12 V, 2.1 A X 16 V, 1.3 A Code Seal N NBR	Code	Pressure stanes									М	
17 up to 175 bar 25 up to 250 bar 35 up to 350 bar Code Solenoid K 12 V, 2.1 A X 16 V, 1.3 A Code Seal N NBR M TENT											Carla	Colonaid
25 up to 250 bar 35 up to 350 bar Code Seal N NBR V TDV												
35 up to 350 bar Code Seal N NBR		•										
Code Seal N NBR V TENT		•										10 V, 1.5 A
		•									Code	Seal
¹⁾ With poppet seal.											Ν	NBR
	¹⁾ With p	oppet seal.									V	FPM

Technical data

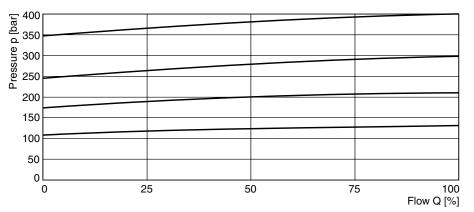
General										
Nominal size			NG16	NG25	NG32	NG40	NG50	NG63		
Interface			Slip-in mounting acc. ISO 7368							
Mounting p	osition		as desired, h	orizontal mour	ting preferred					
Ambient ter	nperature	[°C]	-20+60							
MTTF _D valu	Ie	[years]	75	75						
Weight		[kg]	2.7	5.2	6.4	9.5	15.2	24.3		
Hydraulic										
Max. operating pressure [bar]			Ports A and X 350, ports B and Y 30							
Pressure stages [bar]			105, 175, 250, 350							
Nominal flow [l/min]			220	500	950	1400	2300	4000		
Fluid			Hydraulic oil according to DIN 51524							
Fluid temperature [°C]			-20+70 (NBR: -25+70)							
Viscosity,	permitted	[cSt] / [mm²/s]								
	recommended	[cSt] / [mm ² /s]								
Filtration			ISO 4406 (19	999); 18/16/13						
Electrical (proportional solenoid)										
Duty ratio			100 % ED; CAUTION: coil temperature up to 150 °C possible							
Protection class			IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)							
Code			К			X				
Supply voltage [V]			12 V =			16 V =				
Max. current [A]				2.1			1.3			
Coil resistance at 20 °C [Ohm]										
Solenoid connection			Connector as per EN 175301-803							
Power amp	lifier, recommended		PCD00A-400							

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Signal/pressure curve



p/Q performance curve

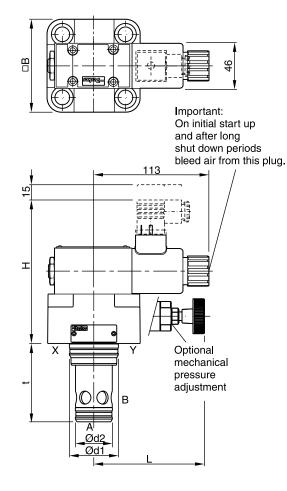


All characteristic curves measured with HLP46 at 50 $^\circ\text{C}.$

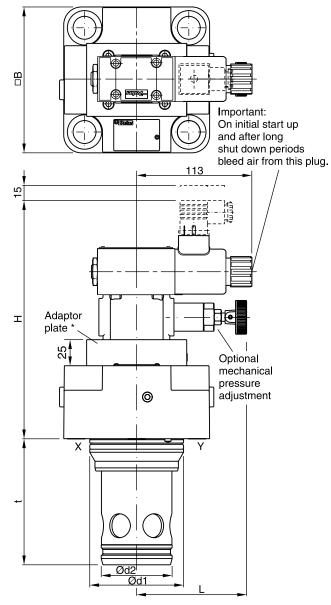
The performance curves are measured with external drain. For internal drain the tank pressure has to be added to curve.



NG16 - NG32



NG40 - NG63 *)





NG	H	В	d,	d,	t	L
16	135	79 ¹⁾	32	25	56	114
25	140	85	45	34	72	102
32	145	102	60	45	85	95
40	137 (180.2) ²⁾	125	75	55	105	106
50	172 (215.2) ²⁾	140	90	68	122	106
63	187 (230.2) ²⁾	180	120	90	155	106

NG	Kit	即予 ISO 4762-12.9	5-7	🔘 Kit		
			[Nm]	NBR	FPM	
16	BK414	4 x M8x40	31.8	SK-RE16EN	SK-RE16EV	
25	BK391	4 x M12x50	108	SK-RE25EN	SK-RE25EV	
32	BK415	4 x M16x55	264	SK-RE32EN	SK-RE32EV	
40	BK416	4 x M20x70	517	SK-RE40EN	SK-RE40EV	
50	BK417	4 x M20x75	517	SK-RE50EN	SK-RE50EV	
63	BK418	4 x M30x100	1775	SK-RE63EN	SK-RE63EV	

* NG40 without adaptor plate.

¹⁾ Width 65 mm.

²⁾ With mechanical pressure adjustment.

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