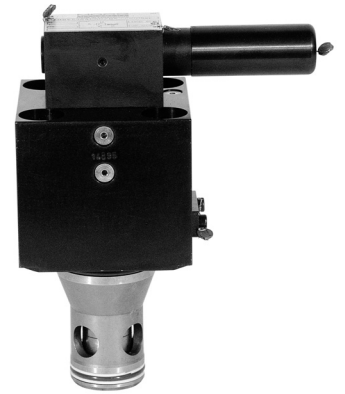


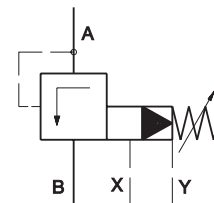
**Pilot Operated Pressure Relief Valve DBV Series**  
according to the  
"European Pressure Directive 97/23/EG, Module B+F",  
Size ISO 7368-NB25, 32 and MOOG Hydrolux NB30



### DESCRIPTION

Pressure relief valve are used both as safety valves avoiding unacceptable high pressure as well as for adjusting the required pressure in a hydraulic system.

### SYMBOL



## SPECIFICATIONS

General data	Value	Unit	Specifications
Mode of construction	–	–	2/2-way-cartridge valve, seat valve. Hydraulically operated with pressure relief pilot valve
Mounting position	–	–	any
Ambient temperature range	min. max.	°C °C	+ 0 + 80
<b>Hydraulic</b>			
Operating pressure ports A, B A-port B-port	max. max.	bar bar	dynamic 350 for all sizes dynamic 350 for all sizes
Operating pressure ports X, Y X-port Y-port	max. max.	bar bar	dynamic 350 for all sizes; any backpressure on the Y-port has to be added to the setup-pressure. It is recommended to keep this pressure as low as possible, e.g. direct connected to drain-line (≈0bar). Setup Pressure + Tank Pressure = Cracking Pressure
Pressure fluid temperature range	min. max.	°C °C	- 10 + 80
Flow direction	–	–	A => B
Hydraulic Fluids	–	–	Hydraulic Oil (HL, HLP) according to DIN 51524; other fluids on request
Viscosity recommended max admissible		mm <sup>2</sup> /s mm <sup>2</sup> /s	15 ... 45 3 ... 380

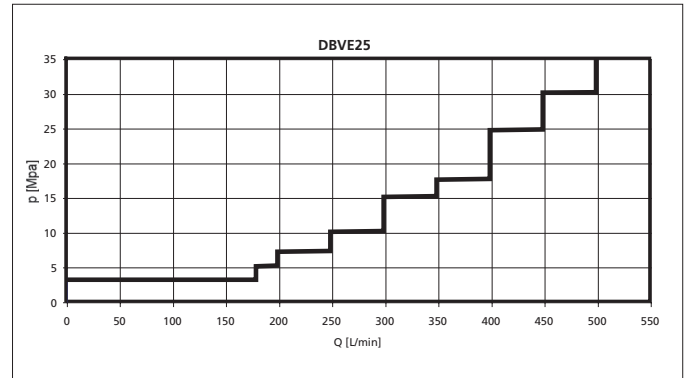
Filtration of the pressure fluid	Pilot valve	Cartridge
Recommended cleanliness class for normal operation	ISO 4406 < 17 / 14	ISO 4406 < 17 / 14
Filter rating recommended for normal operation	β <sub>10</sub> ≥ 75 (10 μm absolute)	β <sub>10</sub> ≥ 75 (10 μm absolute)

Nominal size			NB25	NB32		NB30	
max. permissible flow	Q <sub>max.</sub>	L/min	500	750		500	
Pilot valve:			DBDP06				
Nominal flow at Δp = 5 bar	Q <sub>N</sub>	L/min	1,5				
Weight	–	kg	7.4	8.0		5.2	

## FLOW RANGES

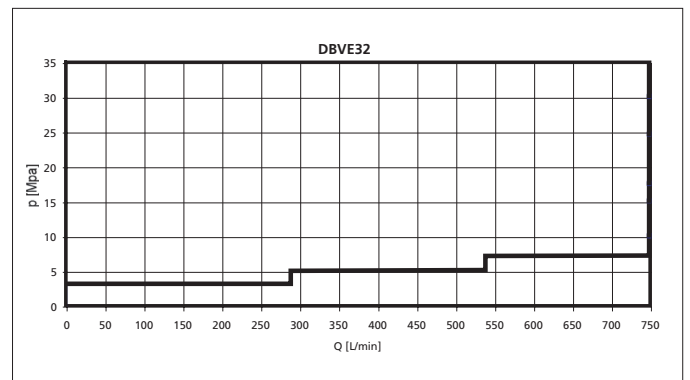
### DBVE25

Pressure Range (p) [MPa]	Flow (Q) [L/min]
3.0...4.9	180
5.0...7.0	200
7.1...9.9	250
10.0...14.9	300
15.0...17.4	350
17.5...24.5	400
24.6...29.9	450
30.0...35.0	500



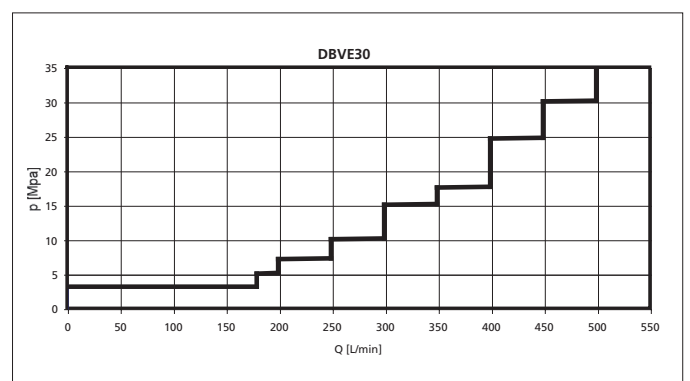
### DBVE32

Pressure Range (p) [MPa]	Flow (Q) [L/min]
3.0...4.9	290
5.0...7.0	540
7.1...9.9	750
10.0...14.9	750
15.0...17.4	750
17.5...24.5	750
24.6...29.9	750
30.0...35.0	750



### DBVE30

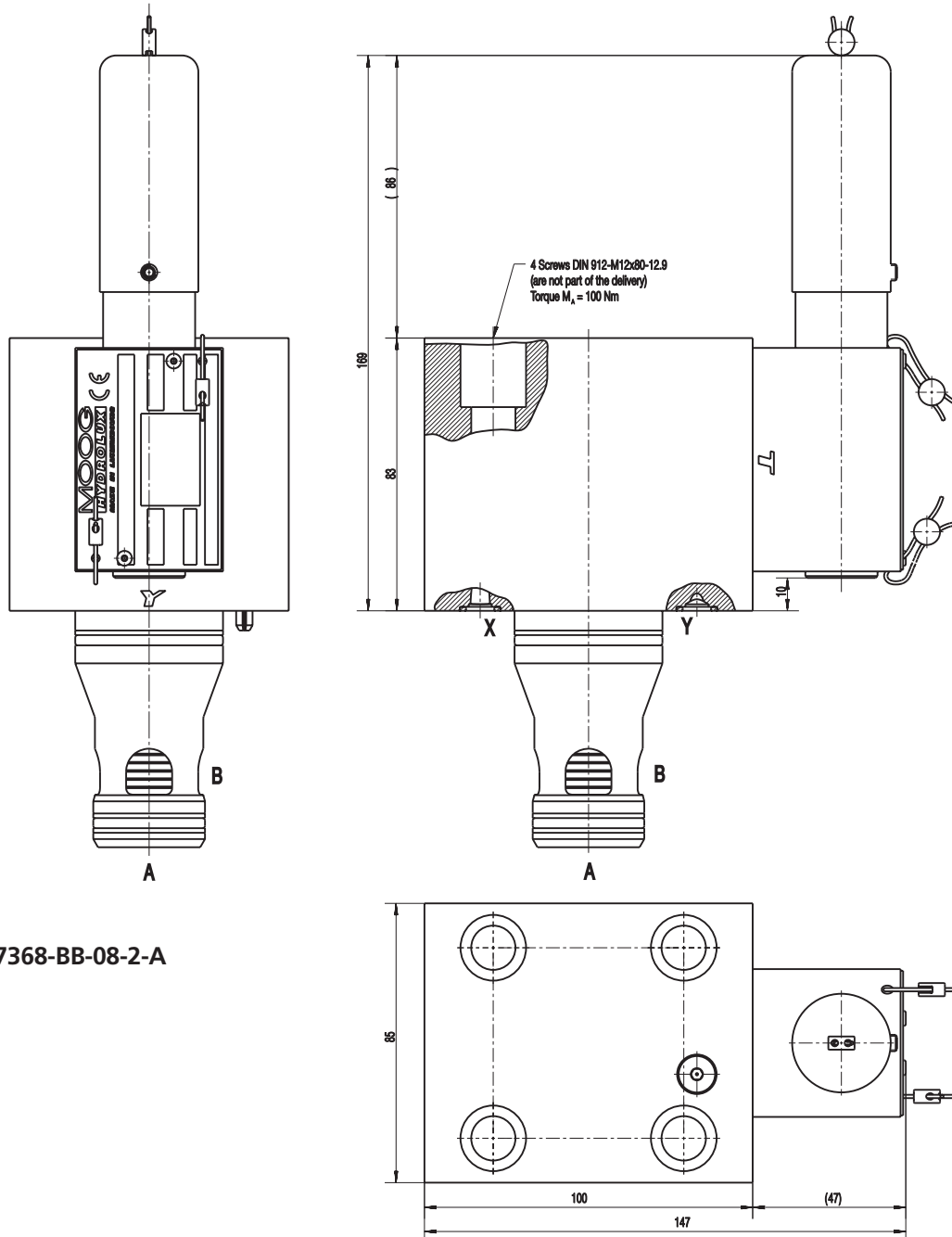
Pressure Range (p) [MPa]	Flow (Q) [L/min]
3.0...4.9	180
5.0...7.0	200
7.1...9.9	250
10.0...14.9	300
15.0...17.4	350
17.5...24.5	400
24.6...29.9	450
30.0...35.0	500



Values below the bold line can not be realized with the valves !

INSTALLATION DRAWINGS NB25, NB32, NB30

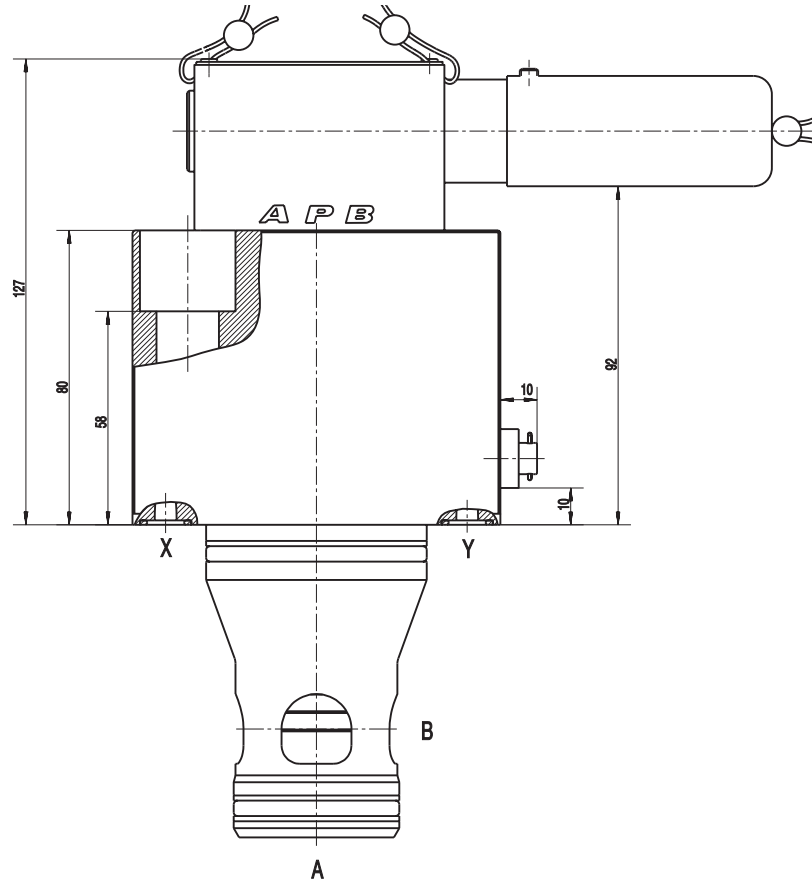
DBVE25



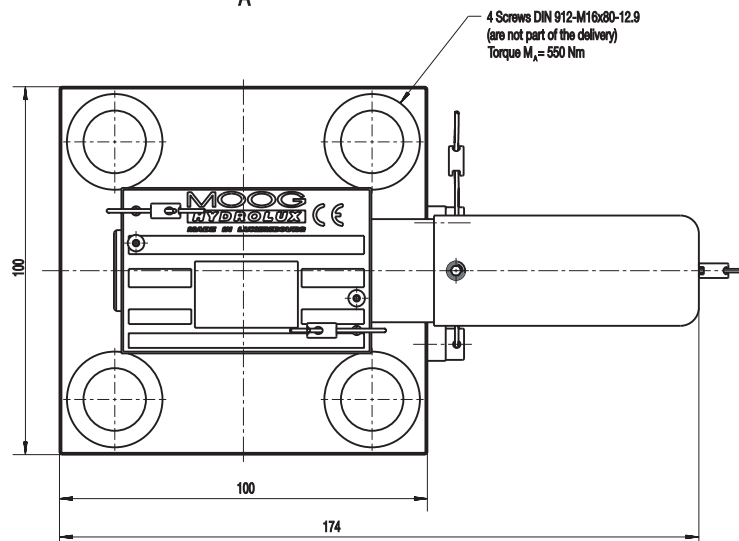
CAVITY: ISO 7368-BB-08-2-A

INSTALLATION DRAWINGS NB25, NB32, NB30

DBVE32

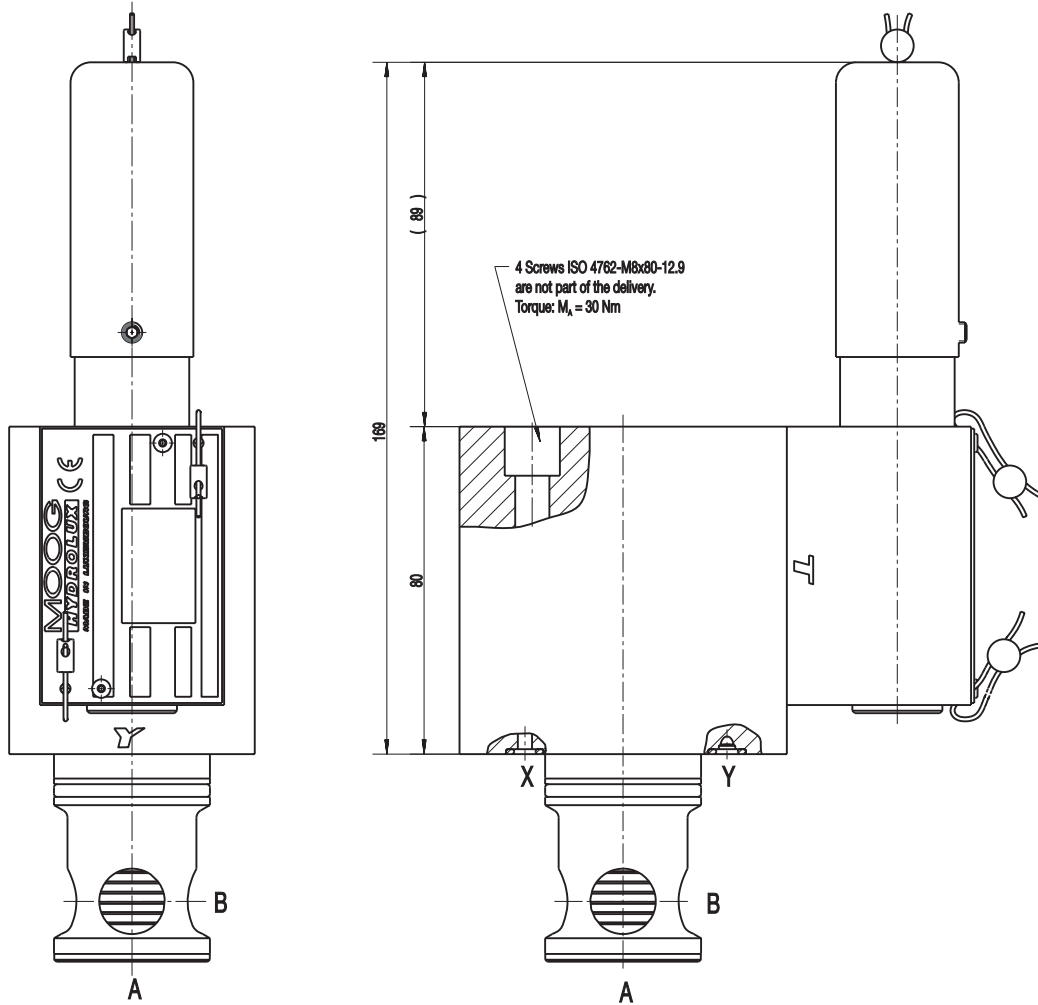


CAVITY: ISO 7368-BC-09-2-A

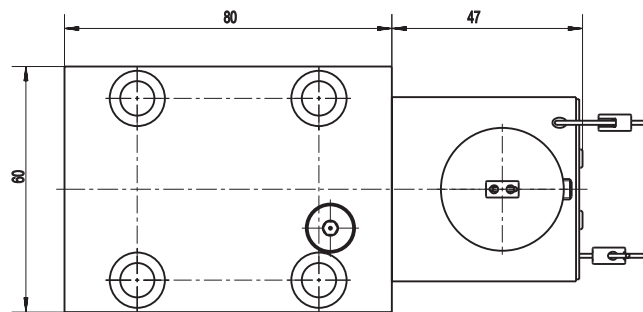


**INSTALLATION DRAWINGS NB25, NB32, NB30**

**DBVE30**

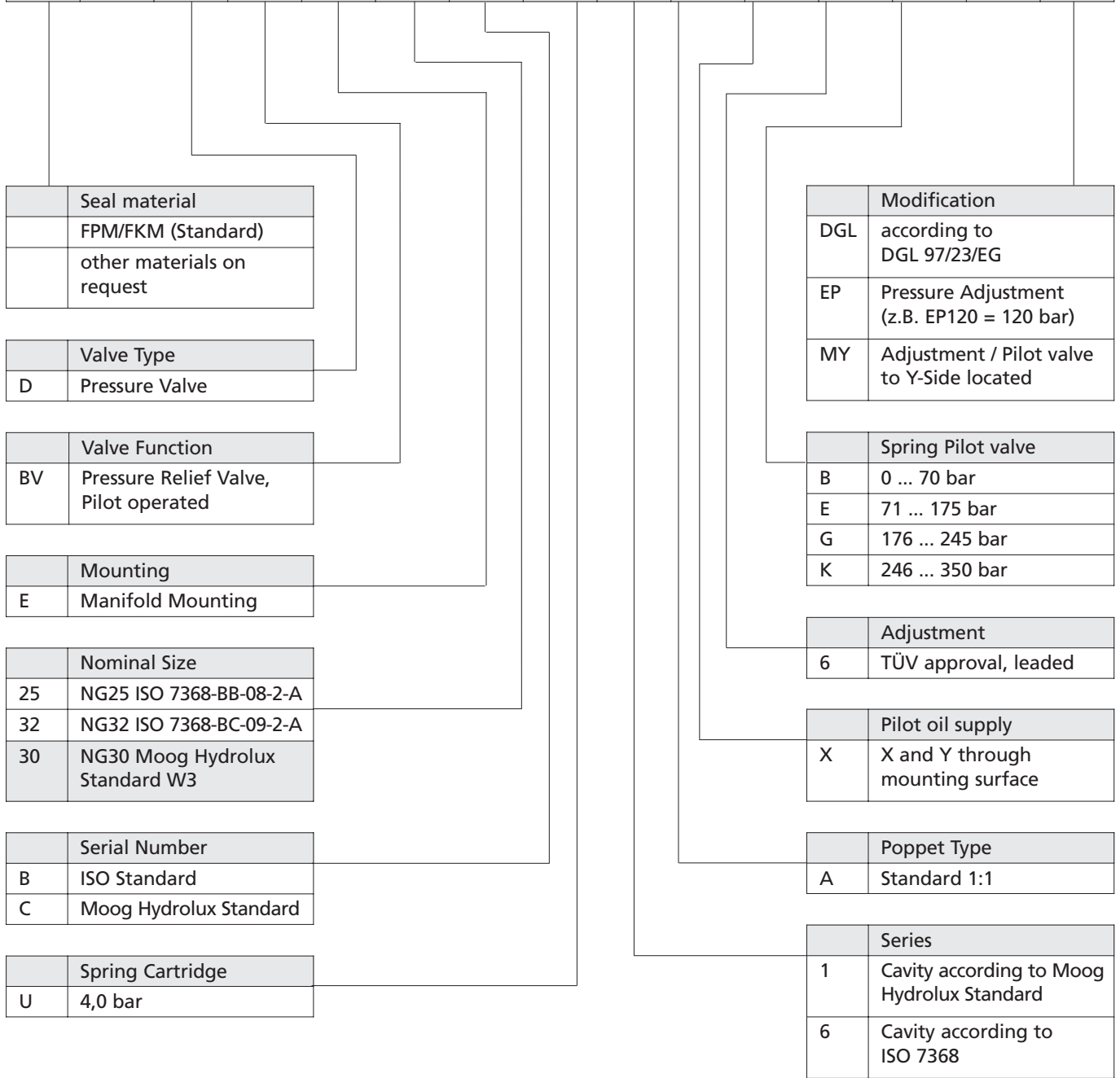


**CAVITY:  
MOOG HYDROLUX STANDARD W3**



**ORDERING INFORMATION**

	-	D	BV	E	32	B	U	6	A	X	6	K	/	...
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Seal material
FPM/FKM (Standard)
other materials on request

Valve Type
D Pressure Valve

Valve Function
BV Pressure Relief Valve, Pilot operated

Mounting
E Manifold Mounting

Nominal Size
25 NG25 ISO 7368-BB-08-2-A
32 NG32 ISO 7368-BC-09-2-A
30 NG30 Moog Hydrolux Standard W3

Serial Number
B ISO Standard
C Moog Hydrolux Standard

Spring Cartridge
U 4,0 bar

Modification
DGL according to DGL 97/23/EG
EP Pressure Adjustment (z.B. EP120 = 120 bar)
MY Adjustment / Pilot valve to Y-Side located

Spring Pilot valve
B 0 ... 70 bar
E 71 ... 175 bar
G 176 ... 245 bar
K 246 ... 350 bar

Adjustment
6 TÜV approval, leaded

Pilot oil supply
X X and Y through mounting surface

Poppet Type
A Standard 1:1

Series
1 Cavity according to Moog Hydrolux Standard
6 Cavity according to ISO 7368

