



VALVOLE DI PRESSIONE

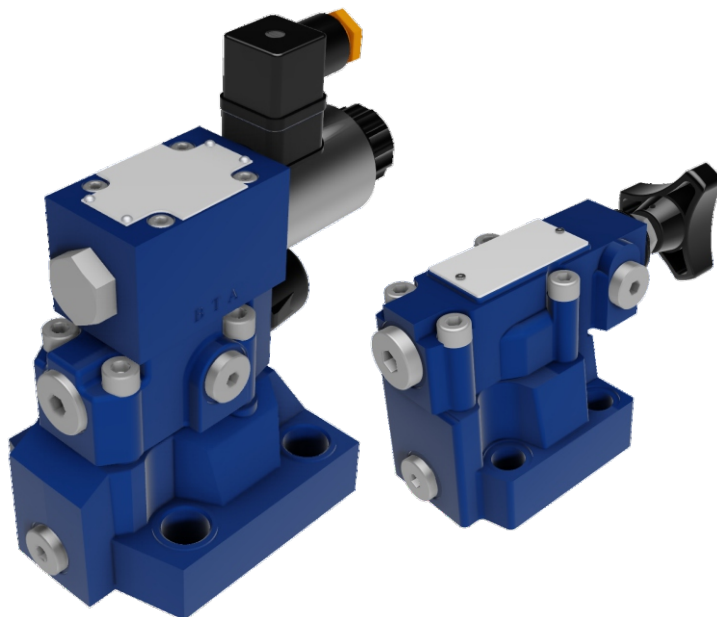
DB

PILOT OPERATED PRESSURE RELIEF VALVES

DB IS PILOT OPERATED PRESSURE RELIEF VALVE, DBW IS A PILOT OPERATED SOLENOID RELIEF VALVE AVAILABLE TO UNLOAD SYSTEM PRESSURE.

THESE VALVES ARE USED TO CONTROL THE PRESSURE OF HYDRAULIC SYSTEMS SMOOTHLY IN A WIDE RANGE.

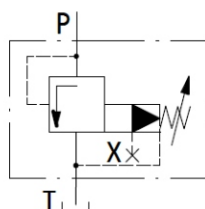
THIS TYPE IS SUITABLE FOR A HYDRAULIC SYSTEM DEMANDS HIGH FLOW RATE.



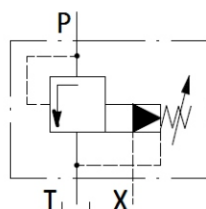
TECHNICAL DATA

SIZE		10		20		30	
SERIES		3X	5X	3X	5X	3X	5X
OPERATING PRESSURE (MPa)		31.5	35	31.5	35	31.5	35
MAX. FLOW RATE (L/MIN)		200	250	400	500	600	650
FLUID TEMPERATURE (°C)		-20 – 70					
FILTRATION ACCURACY (μm)		25					
WEIGHT (KG)	DB	3.2		4.2		5.2	
	DBW	4.7		5.5		6.8	
VALVE BODY (MATERIAL)		CASTING PHOSPHATING SURFACE					

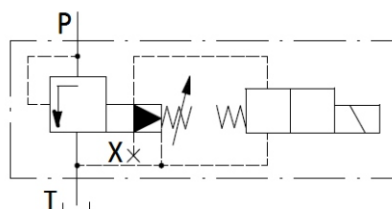
SCHEMES



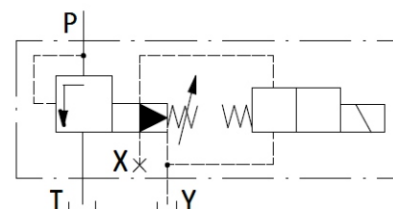
DB.../...



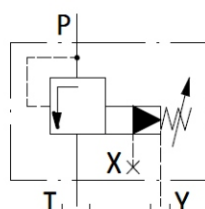
DB.../...X...



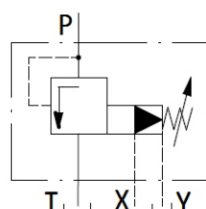
DBW.../...



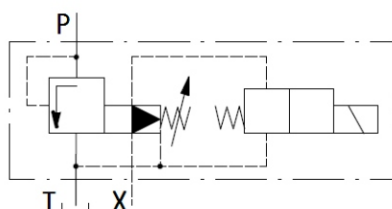
DBW.../...Y...



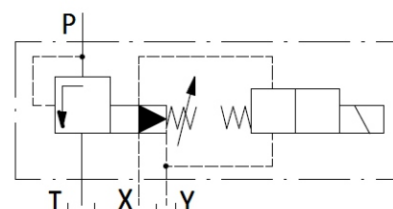
DB.../...Y...



DB.../...XY...



DBW.../...X...

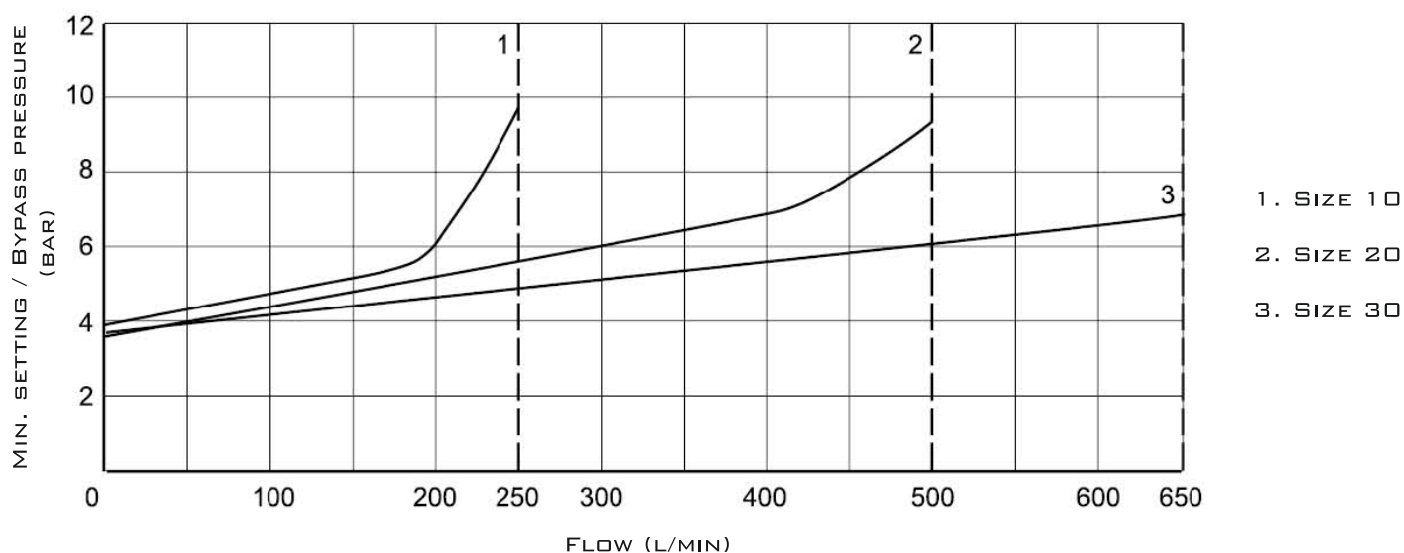


DBW.../...XY...

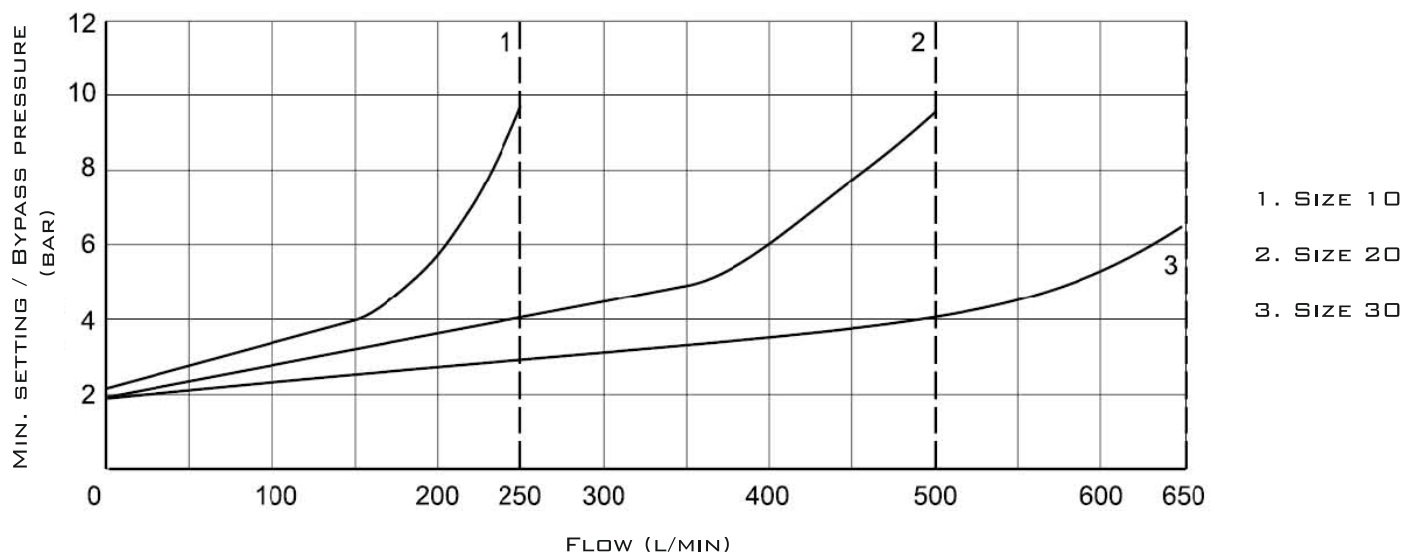
PILOT OPERATED PRESSURE
RELIEF VALVES

CHARACTERISTIC CURVES

CHARACTERISTIC OF MIN. SETTING PRESSURE BYPASS / BYPASS PRESSURE AND FLOW
STANDART



CHARACTERISTIC OF MIN. SETTING PRESSURE BYPASS / BYPASS PRESSURE AND FLOW
TYPE "U"



ATTENTION!

THE CURVES MEASURED WITHOUT PRESSURE WHEN CONTROL OIL BACK TO THE TANK.
REFERS TO THE BACK INTO HOUSING OF THE CONTROL OIL, THE PRESSURE OF "T" PORT HAS
INCREASED AGAINST THE INPUT PRESSURE.

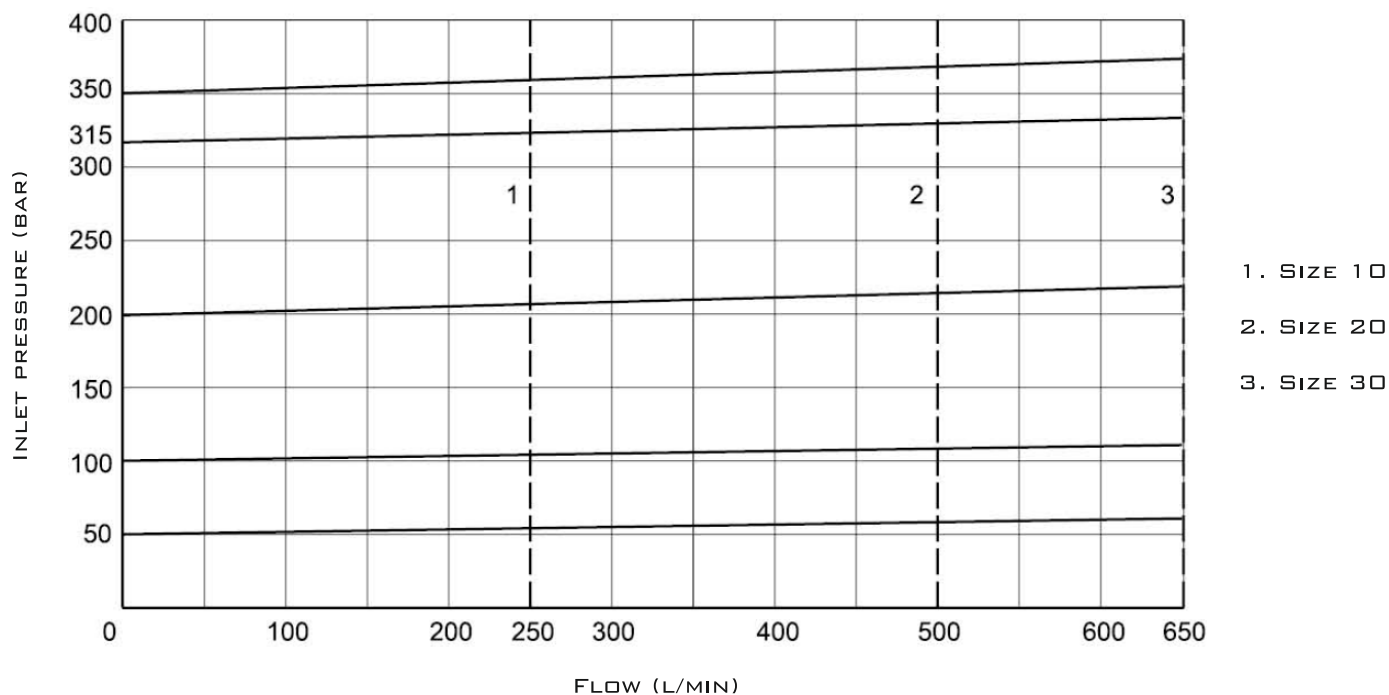
THE CURVES ARE AVAILABLE WHEN THE OUTPUT PRESSURE $P_t=0$ WITHIN THE FLOW RANGES.

SEE ALSO:
DBD, ZDB



CHARACTERISTIC CURVES

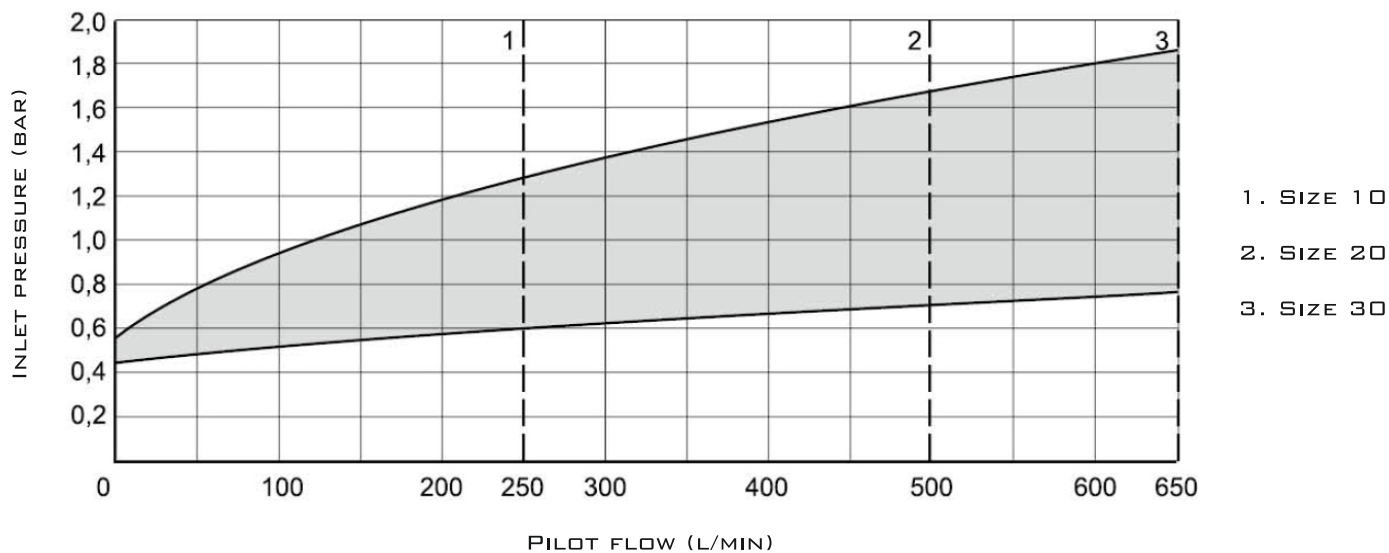
CHARACTERISTIC OF INLET PRESSURE AND FLOW



ATTENTION!

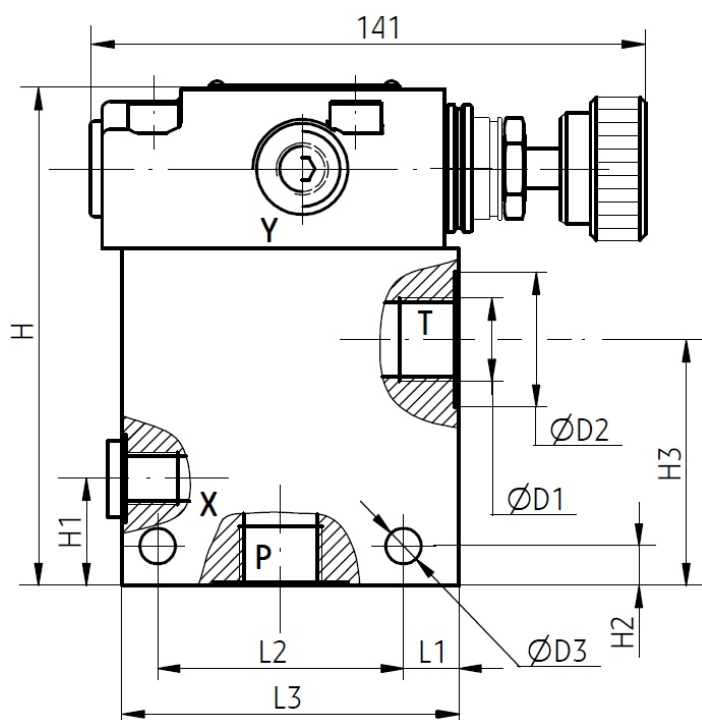
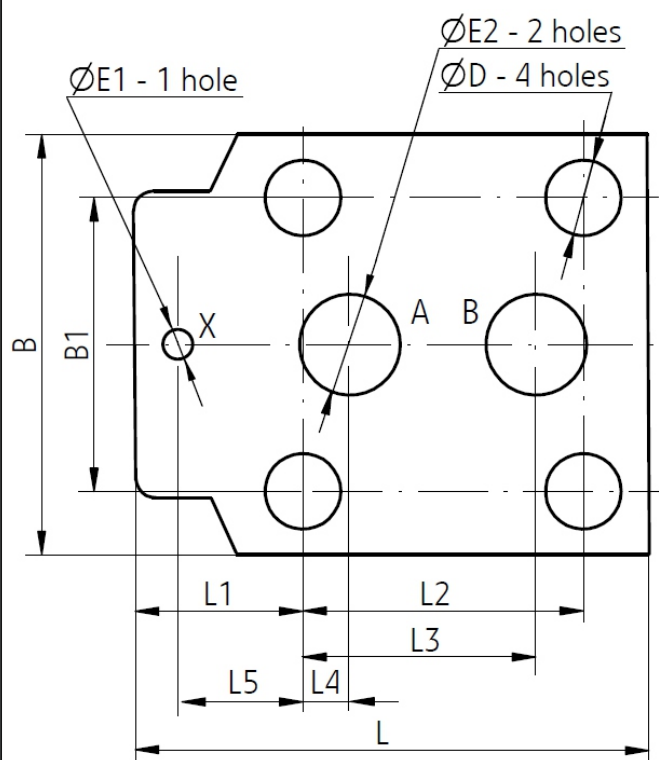
REFERS TO THE BACK INTO HOUSING OF THE CONTROL OIL, THE PRESSURE OF "T" PORT HAS INCREASED AGAINST THE INPUT PRESSURE.

PILOT FLOW



SUBPLATE MOUNTING

THREAD CONNECTION



SUBPLATE MOUNTING

MODEL	L	L1	L2	L3	L4	L5	B	B1	D	E1	E2
DB/DBW10	90	23.5	54	47.6	22.2	0	78	54	M12/26	Ø6	Ø12
DB/DBW20	117	34	66.7	55.6	11.1	23.8	100	69.8	M16/26	Ø6	Ø25
DB/DBW30	148	41.5	88.7	76.2	12.7	31.7	115	82.5	M18/26	Ø7	Ø32

THREAD CONNECTION

MODEL	D1		D2	D3	L1	L2	L3	H	H1	H2	H3
	METRIC	INCH									
DB10G	M22x1.5	G 1/2"	34	9	14	62	85	125	27	10	62
DB15G	M27x2	G 3/4"	42	9	14	62	85	125	27	10	62
DB20G	M33x2	G 1"	47	9	14	62	85	125	27	10	57
DB25G	M42x2	G 1 1/4"	56	9	18	72	100	138	40	13	66
DB30G	M48x2	G 1 1/2"	61	9	18	72	100	138	40	13	66



VALVOLE DI PRESSIONE

DBPILOT OPERATED PRESSURE
RELIEF VALVES

ORDER CODE

DB								50									
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NO CODE=
=WITHOUT
SOLENOID VALVE
W=WITH
SOLENOID VALVE

NO CODE=PILOT
OPERATED VALVE
C=PILOT OPERATED
WITHOUT MAIN
CARTRIDGE (NOT
MARKED SIZE)
C=PILOT OPERATED
WITH MAIN CARTRIDGE
(MARKED SIZE)

SUBPLATE MOUNTING
SIZE:
10, 20, 30
THREADED CONNECTION
SIZE:
10, 15, 20, 25, 30

A=NORMAL CLOSED
B=NORMAL OPENED

NO CODE=SUBPLATE MOUNTING
G=THREAD CONNECTION

1=HANDLE
2=ADJUSTING BOLT WITH
PROTECT COVER
3=KNOB WITH HANDLE

30=30 SERIES
50=50 SERIES

50=MAX. PRESSURE 5 MPA
100=MAX. PRESSURE 10 MPA
200=MAX. PRESSURE 20 MPA
315=MAX. PRESSURE 31.5 MPA
350=MAX. PRESSURE 35 MPA

NO CODE=
=NBR SEALS
V=FKM SEALS

PILOT OPERATED
DRAINAGE PORT
THREAD:
NO CODE=G1/4
2=M14x1.5

R10=DAMPING Ø1.0 IN
SOLENOID VALVE PORT B

Z5L=SQUIRE PLUG
WITH LAMP
Z4=SQUIRE PLUG

NO CODE=WITHOUT
CONCEALED HAND EMERGENCY
N=WITH HAND EMERGENCY

G12=DC12V
G24=DC24V
W230R/W110R=230/110V AC

NO CODE=STANDARD TYPE
U=MINIMUM SETTING PRESSURE IS
LOWER TYPE

NO CODE=INTERNAL SUPPLY,
INTERNAL DRAIN
X=EXTERNAL SUPPLY, INTERNAL DRAIN
Y=INTERNAL SUPPLY, EXTERNAL DRAIN
XY=EXTERNAL SUPPLY, EXTERNAL DRAIN