

CMD
NRP-E/11.11

Pilot operated Non Return Valve Type NRP-E

LOGO

Replaces : NRP-E 10.09

Size : 10,20 & 30

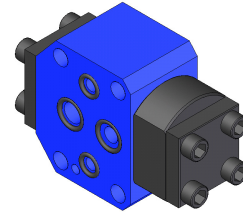
up to 315 bar

up to 350 L/min.

CM Hydro Systems Pvt Ltd

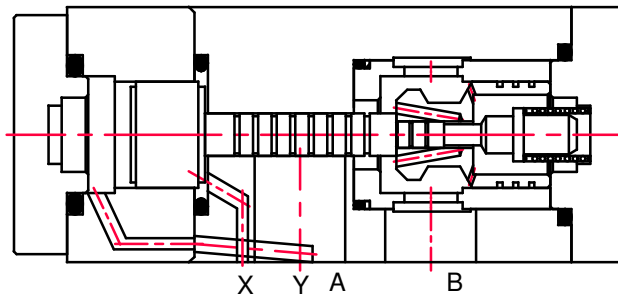
Features :

- Seat type with decompression poppet
- External drain construction
- Free flow in one direction
- Pilot flow in another direction
- Various cracking pressure, optional (see ordering code)



Symbol :

Sectional view



Ordering code

NRP-E [] [] [] [] *

Pilot operated Non Return valve
(External drain)

Nominal size 10 =10
 Nominal size 20 =20
 Nominal size 30 =30

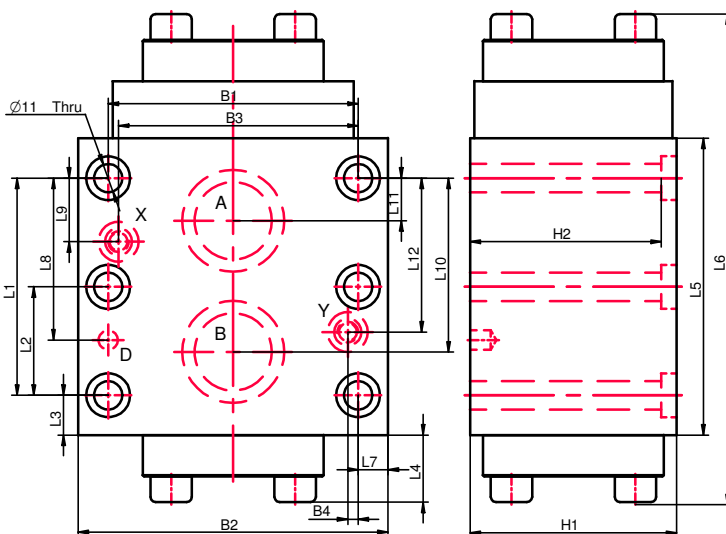
For subplate mounting =S
 For threaded connection =T

Further details to specify

Revision status index

0= Without spring
 1= Standard
 2=
 3=
 5= } Cracking pressure in bar

Subplate mounting body

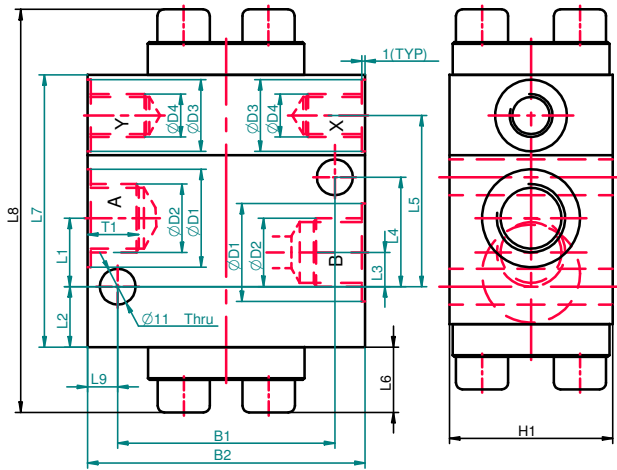


	Size 10	Size 20	Size 30
L1	42.9	60.3	84.1
L2	-	-	42.1
L3	18.5	17.2	15.4
L4	18	20	29
L5	71	88	111
L6	131	154	203
L7	9.15	10.3	11.6
L8	31.8	44.5	62.7
L9	21.5	20.6	24.6

	Size 10	Size 20	Size 30
L10	35.8	49.2	67.5
L11	7.2	11.1	16.7
L12	21.5	39.5	59.5
H1	47	58	75
H2	47	45	65
B1	66.7	79.4	96.8
B2	85	100	120
B3	58.8	73	92.8
B4	7.9	6.4	3.8

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Threaded port body



Size	L1	L2	L3	L4	L5	L6	L7	L8	L9
10	27.5	18.5	10.5	33.5	64.5	18	95	131	9.25
20	36.7	17.3	13.5	50.5	83.7	20	114	154	10.3
30	54.5	15.5	20.5	73.5	112.5	29	145	203	11.3

Size	B1	B2	ØD1	ØD2	ØD3	ØD4	H1	T1
10	66.5	85	30	G 1/2	G 1/4	22	47	14
20	79.5	100	44	G 1	G 1/4	22	57	18
30	97	120	60	G 1 1/2	G 1/4	22	80	22

Technical data (for other sizes and special application, please contact mktg@cmhydraulics.com)

Mounting style		Threaded port or subplate		
Mounting position		optional		
Cracking pressure		bar	0,1,2,3 & 5	
Maximum operating pressure		bar	315	
Flow Direction		From A to B free, from B to A through pilot		
Control Areas	Size	10	20	30
	Main Poppet	3.1 cm ²	8.0 cm ²	12.5 cm ²
	Pilot piston	0.7 cm ²	3.8 cm ²	6.1 cm ²
	Decompression Poppet	0.2 cm ²	0.5 cm ²	0.7 cm ²
Maximum flow	Size	10	20	30
	L/min.	80	200	350
Pressure fluid		Mineral oil (HL,HLP) to DIN 51 524; Fast bio-degradable pressure fluids to VDMA 24 568;HTEG (rape seed oil); HEPG (polyglycol); HEES (synthetic ester); other fluids on request		
Pressure fluid - temperature range		°C	- 30 to + 80	
Viscosity range		mm ² /s	2.8 to 500	
Degree of contamination		Maximum permissible degree of contamination of the fluid is to NAS 1638 class 9.		
Weight	Size	10	20	30
	Subplate	Kg	3.1	5.5
	Threaded body	Kg	3.1	5.5