



SCREW PUMPS RELIEF VALVES FOR





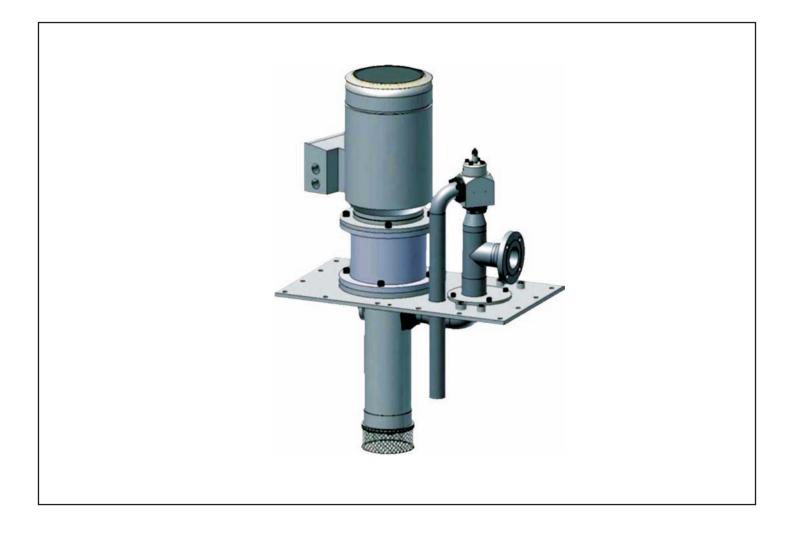


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Relief and pressure controlled valves available from jbj Techniques are the natural complement to Screw Pumps. A wide range of flow and operating ranges available, two or three ways, also for direct mounting on pump also available, as described in the following pages:

VMPI

• Piloted pressure relief valve page 2
VCP • Air piloted pressure control valve page 5
EV3 • 3 way valve with pressure limiting, air piloted
VVP • Two way safety valve • Description • Two way safety valve
BVP • Pressure relief valve block – direct mounting page 10

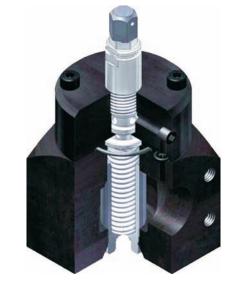


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Pilot Operated VMPI Series

SEIM

Pressure relief valve VMPI (pilot – operated) For hydraulic oils, lubricating oils, fuel and cooling lubricants oils.



030, 042 &060 Series made in Cast Iron G25 Steel



095 & 155 Series made in Stainless Steel

Standard performances for standard versions

Delivery flow	from 30 to 10000 I/min (from 7,9 to 2640 USGPM)
Maximum pressure	See dimensional chart*
Kinematic viscosity	from 3 to 400 cSt*
Admissible temperature	from 0 to 100 °C (32 to 212 °F)
Recommended filtration	60 micron max, (not abrasive contaminant) ISO4406 19 / 16 - NAS 10

* For every model standard characteristics see specific charts.

For different values contact jbj Techniques Limited technical office, telephone: 01737 767493 or email: info@jbj.co.uk

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Pilot Operated VMPI Series

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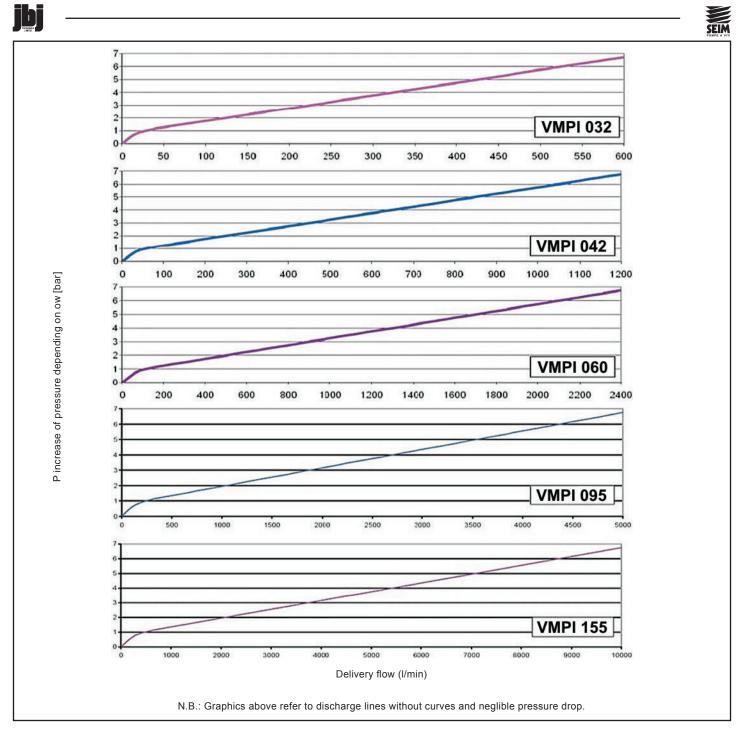
Pressure relief valve VMPI (pilot - operated) For hydraulic oils, lubricating oils, fuel and cooling lubricants oils. OUT IN B -14 L3 L2 0 0 C 0 IN 0 030, 042 &060 Series made in Cast Iron G25 Steel 095 & 155 Series made in Stainless Steel

C i= a	Delivery flow	Pressure*	IN - OUT		L1	L2	L3	L4
Size	(l/min)	(bar)	Standard ref.	Size	(mm)	(mm)	(mm)	(mm)
VMPI 030	30 - 600	2 - 50	SAE J 516 – 518 3000 psi	1"1/2	90	50	90	185
VMPI 042	60 - 1200	2 - 50	SAE J 516 – 518	2 "	110	55	150	205
VMPI 060	120 - 2400	2 - 50	SAE J 516 – 518	3"	140	90	155	205
VMPI 095	250 - 5000	2 - 16	DN – PN 16 ANSI– ASA -150	150 6"	230	230	366	440
VMPI 155	500 - 10000	2 - 16	DN – PN 16 ANS⊢ ASA -150	200 8"	300	300	480	610

* Setting range special versions: up to 150 bar for VMPI 030 and VMPI 042, 100 bar for VMPI 060.

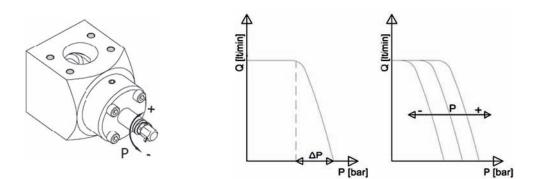
Pilot Operated VMPI Series

Pressure Relief & Control Valves



Pressure setting

Setting the pressure increases by turning the adjusting knob clockwise



SEIM



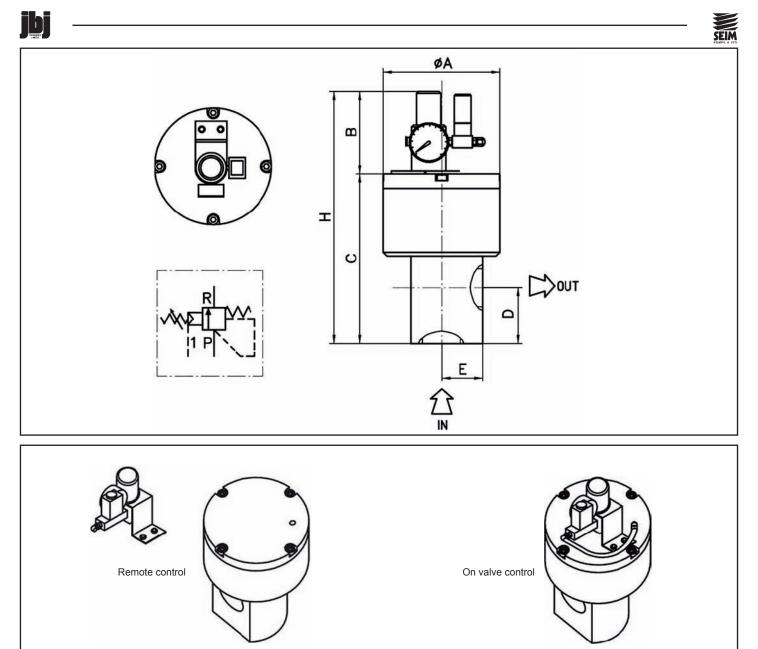
For hydraulic oils, lubricating oils, fuel oils and cooling lubricants emulsions.

Control is via pneumatic circuit :

- ON / OFF function changes from free discharge to regulated pressure
- Max pressure is controlled by setting the pneumatic pressure (also refer to page 7)
- Pneumatic control-setting group can also be remotely mounted from valve (also refer to page 7) (suggested max 1 m tube).

Standard version characteristics							
Size	VCP22		VCP32				
Delivery flow	120 l/min		250 I/min				
Maximum pressure	5 - 100 bar		5 - 80 bar				
Ratio regulated pressure / air pressure	20/1 (5 bar air = 100 bar regulation)		10/1 (8 bar air = 80 bar regulation)				
Electrovalve specs	24 V DC (or 48 AC), duty 100%, norma	lly oper	n (no supply = valve in discharge), power 2 W DC, IP 65, Actuator port G1/8".				
Fluid temperature	0 -	60 °C					
Ambient temperature	0 -	50 °C					
Weight	4.5 Kg		5.0 Kg				

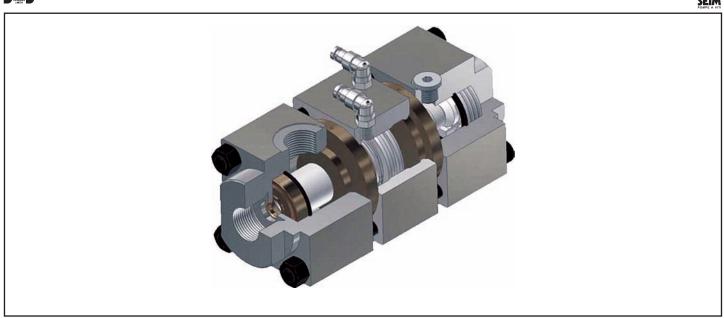
* Reduced pressure limits apply due to fluid viscosity and driving speed - Consult the performance charts for the individual pump size. For different functional characteristics, please contact our sales department.



Size	ØA	В	Gas		C	D	Е	н
3120			In	Out	U U	U	E	п
VCP 22	120	95	1"	1"	175	60	40	270
VCP 32	120	95	1 ¹ /4"	1 ¹ /4"	180	63	40	275

EV3 Series 3-Way Valve

jbi



EV3: 3 way valve with pressure control

For hydraulic oils, lubricating oils, fuel oils and cooling lubricants emulsions. Control is with pneumatic circuit:

ON / OFF function changes from free discharge to regulated pressure

- max pressure is controlled setting the pneumatic pressure
- pneumatic control-setting group can be also remote mounted from valve (suggested max 1 m tube).
- option: proportional control valve pressure and on-off fuctions controlled by PLC or external control

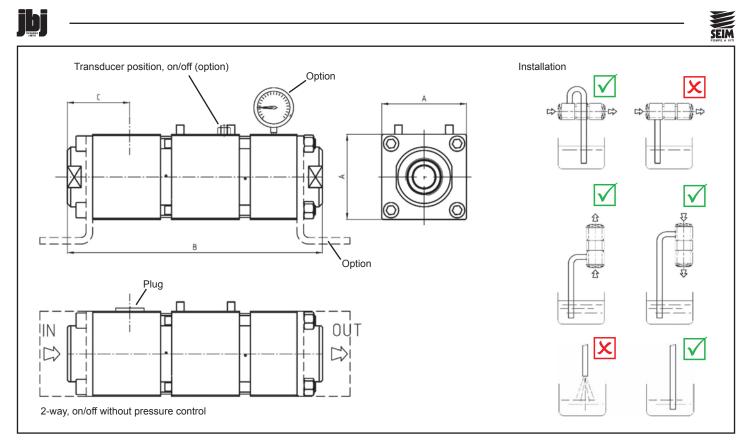
Standard version characteristics

Size	EV3 - ³ /4"	EV3 - 1" ¹ / ₄	EV3 - 2"	EV3 - 3"			
Oil flow (3-20 cSt) **	Oil flow (3-20 cSt) ** 120 l/min		700 / min	1500 l/min			
Emulsion flow **	170 l/min	350 I /min	1000 l/min	2000 l/min			
Pressure setting	Pressure setting 15 to 100 bar		5 to 40 bar	5 to 16 bar			
Ratio regulated pressure / air pressure	15:1 (6.6 bar air = 100 bar regulation)	15:1 (6.6 bar air = 100 bar regulation)	7:1 (5 bar air = 35 bar regulation)	7:1 (2 bar air = 14 bar regulation)			
Electrovalve specs	24 V DC (or 48 AC), duty 1	00%, normally open (no supply = va	alve in discharge), power 2 W. DC	, IP 65, Actuator port G1/8".			
Fluid temperature	0 - 60°C						
Ambient temperature	0 - 50°C						
Weight 4 kg		9 kg	20 kg	50 kg			

Emulsion oil min 5%

** ΔP IN-OUT 1-1,5 bar. - For different functional characteristics, please contact jbj Techniques Limited technical office, telephone: 01737 767493 or email: info@jbj.co.uk.

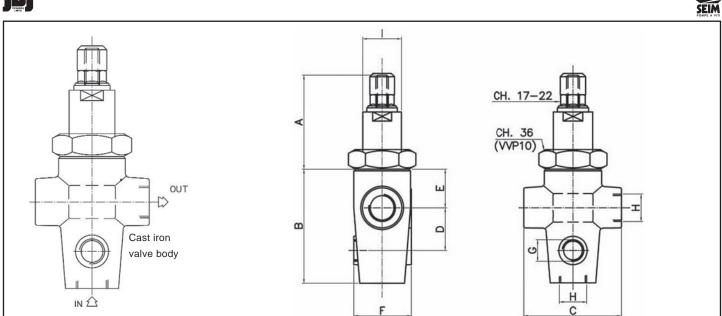
EV3 Series Dimensions



Size	А	В	BSPP In	BSPP (Out discharge)	BSPP Out	с
EV3- ³ / ₄	80	210	3/4"	3/4"	3/4"	48
EV3-1 ¹ / ₄	100	310	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ¹ / ₄ "	75
EV3-2	130	390	2"	2"	2"	100
EV3-3	180	540	3"	3"	3"	135

VVP Series Valve





VVP series valve

For hydraulic oils, lubricating oils, fuel oils and cooling lubricants emulsions.

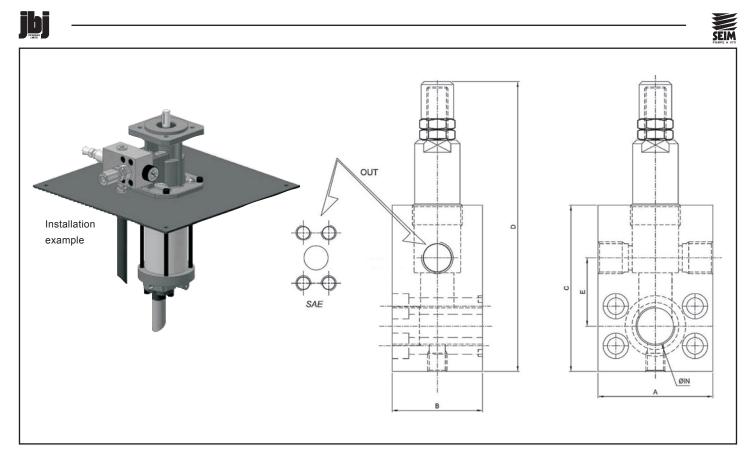
Standard version characteristics

	VVP 10	VVP 20				
Delivery flow	0 – 40 l/min	0 – 80 <i>V</i> min				
Max pressure*	up to 320 bar*	up to 250 bar *				
Kinematics viscosity	10 to 500 cSt					
Admissible temperature	-25° to 75 °C					
Recommended filtration	75 micron max, suction side (not abrasive contaminant) - NAS 1638					

* Reduced pressure limits apply due to fluid viscosity and driving speed - Consult the performance charts for the individual pump size For different functional characteristics, please contact jbj Techniques Limited technical office, telephone: 01737 767493 or email: info@jbj.co.uk.

Size	А	В	С	D	E	F	G	Н	I
VVP 10	58,5	70	60	26	24	35	1/4" GAS	3/8" GAS	21.5
VVP 20	91	99,5	81	41	34	45	1/4" GAS	¹ / ₂ "GAS	30

BVPA Series Pressure Relief Block Valves



BVPA series relief block valve.

High pressure cooling and lubricating circuits for machine tools and deep hole drilling. Control is with pneumatic circuit:

Standard version characteristics

Size	BVPA 03	BVPA 04	BVPA 05					
Maximum delivery flow	250 l/min							
Media temperature		30 to 60°C						
Recommended filtration	NAS1638, class 10 ISO4406 19 / 16 – NAS 10							
Adjustable setting valves								
bar	10 - 120							
'O' rings	Viton							

For different functional characteristics, please contact jbj Techniques Limited technical office, telephone: 01737 767493 or email: info@jbj.co.uk.

Size	А	В	с	D	E	In	Out
BVP 03	76.0	59.7	110	191.5	45.0	SAE 1" + ³ / ₄ " GAS	1/2" GAS
BVP 04	79.5	79.5	150	215.0	59.0	SAE 1 ¹ / ₄ " + 1 GAS	SAE 1"
BVP 04	98.0	79.5	170	235.0	74.5	SAE 1 ¹ / ₂ " + 1 ¹ / ₄ " GAS	SAE 1 ¹ / ₂ "



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