



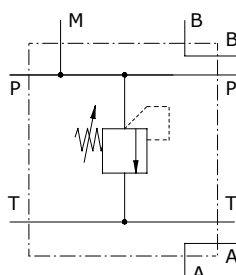
Type PBL pressure relief valves

- Subplates with pressure relief valve face mounting cetop 3 (6-38) or 5 (10-12)

Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

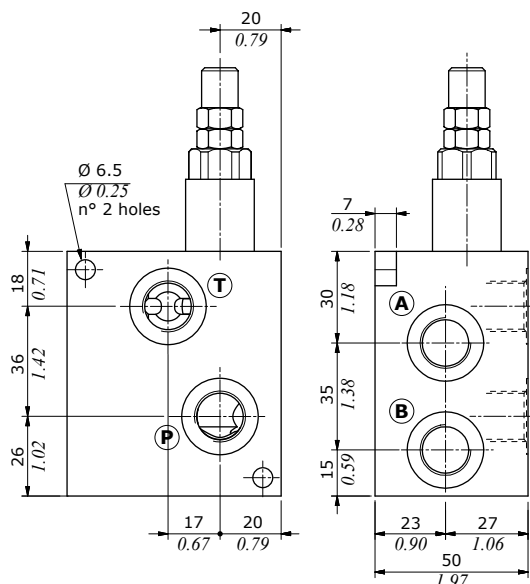
	PBL 6/VMP 38	PBL 6/VMP 38/5Y	PBL 10/VMP 12
Nominal flow	35 l/min (9.2 US gpm)	35 l/min (9.2 US gpm)	60 l/min (16 US gpm)
Max. pressure	Aluminium body = 210 bar (3050 psi) Steel body = 350 bar (5100 psi)		
Oil leakage at 80% of max. setting	3 cm ³ /min (0.18 in ³ /min)	1 cm ³ /min (0.06 in ³ /min)	5 cm ³ /min (0.30 in ³ /min)
Fluid	mineral based oil		
Viscosity	from 10 to 200 cSt		
Max. level of contamination	18/16/13 ISO4406		
Fluid temperature	with NBR seals from -20°C (-4°F) to 80°C (176°F)		
Environmental temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)		
Weight	aluminium	0.80 kg (1.76 lb)	1.70 kg (3.75 lb)
	steel	1.98 kg (4.36 lb)	4.29 kg (9.46 lb)

NOTE - For different conditions, please contact Walvoil Sales Dpt.

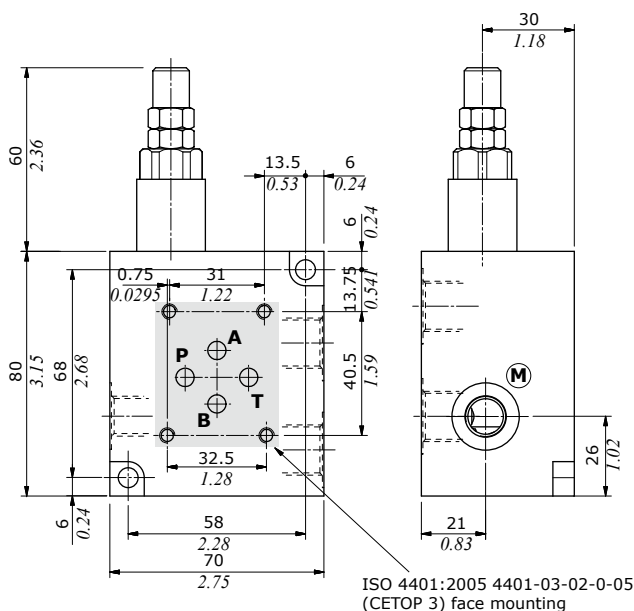


Dimensions

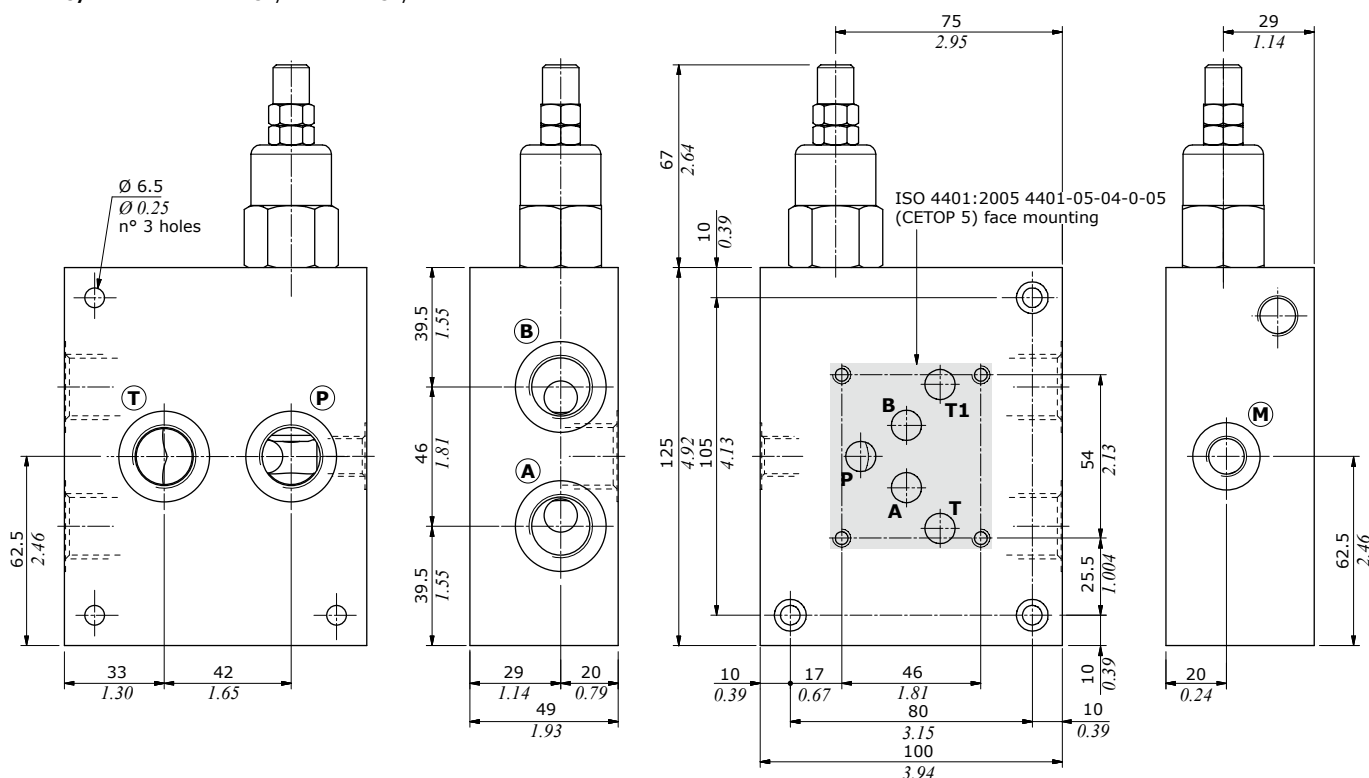
Valve type	(P) (T) (A) (B) (M)
PBL 6/VMP 38	G3/8 G1/4
PBL 6/VMP 38/5Y	G3/8 G1/4



Valve type	(P) (T) (A) (B) (M)
PBL 6/VMP 38/SAE	SAE8 SAE6

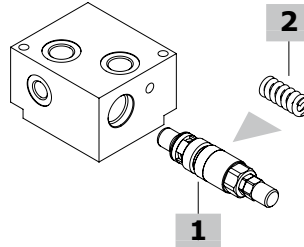


Valve type	(P) (T) (A) (B) (M)
PBL 10/VMP 12	G1/2 G1/4



Ordering codes and description composition

Port size **2**
PBL 6/VMP 38/5.TS.S
1



PBL complete valves

With direct acting valves; standard setting is referred to 5 l/min (1.32 US gpm)

Configuration with G3/8 standard thread and ISO 4401:2005 4401-03-02-0-05 (CETOP 3) face mounting

TYPE: **PBL 6/VMP 38/5.TS.S** CODE: 1114021102
DESCRIPTION: Aluminium body, range 50-220 bar (725-3200 psi).
Standard setting 160 bar (2300 psi)

TYPE: **PBL 6/VMP 38/5.TS.S/ac** CODE: 1114022101
DESCRIPTION: Steel body, as previous one
TYPE: **PBL 6/VMP 38/5Y.TS.S** CODE: 1114021123

DESCRIPTION: Aluminium body, range 140-190 bar (2030-2750 psi).
Standard setting 150 bar (2200 psi)

Configuration with G1/2 standard thread and ISO 4401:2005 4401-05-04-0-05 (CETOP 5) face mounting

TYPE: **PBL 10/VMP 12/10.TS.S** CODE: 1114031102
DESCRIPTION: Aluminium body, range 50-220 bar (725-3200 psi).
Standard setting 160 bar (2300 psi)

TYPE: **PBL 10/VMP 12/10.TS.S/ac** CODE: 1114032101
DESCRIPTION: Steel body, as previous one

Configuration with SAE8 standard thread and ISO 4401:2005 4401-03-02-0-05 (CETOP 3) face mounting

TYPE: **PBL 6/VMP 38/5.TS.S/SAE** CODE: 1114021200
DESCRIPTION: Aluminium body, range 50-220 bar (725-3200 psi).
Standard setting 160 bar (2300 psi)

For other steel body configurations, SAE thread and configurations with FPM (Viton) seals please contact our Sales Dpt.

1 Direct acting pressure relief valves

Standard setting is referred to 5 l/min (1.32 US gpm)

TYPE CODE DESCRIPTION

For G3/8 and SAE8 ports configuration

VMP 5/TS.S 1100520400 Setting range 50-220 bar (725-3200 psi)
Standard setting 160 bar (2300 psi)
VMP 5Y/TS.S 1100520406 Setting range 140-190 bar (2030-2750 psi)
Standard setting 150 bar (2200 psi)

For G1/2 ports configuration

VMP 10/TS.S 1100530400 Setting range 50-220 bar (725-3200 psi)

2 Pressure setting spring

TYPE CODE DESCRIPTION

For VMP 5 valve

TB 3MOL314311 Setting range 5-40 bar (72.5-580 psi)
TV 3MOL314330 Setting range 20-80 bar (290-1160 psi)
TS 3MOL315330 Setting range 50-220 bar (725-3200 psi)
TR 3ML1143600 Setting range 180-350 bar (2600-5100 psi)

For VMP 5Y valve

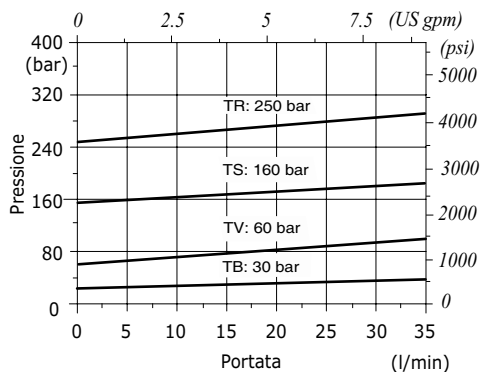
TB 3MOL314311 Setting range 5-80 bar (72.5-1160 psi)
TV 3MOL314330 Setting range 40-150 bar (580-2200 psi)
TS 3ML1143400 Setting range 140-190 bar (2600-5100 psi)
TR 3MOL315330 Setting range 180-350 bar (2600-5100 psi)

For VMP 10 valve

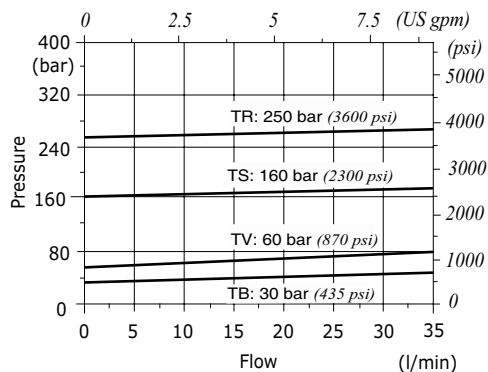
TB 3MOL316410 Setting range 5-40 bar (72.5-580 psi)
TV 3ML1154300 Setting range 20-80 bar (290-1160 psi)
TS 3MOL317420 Setting range 50-220 bar (725-3200 psi)
TR 3MOL317440 Setting range 180-350 bar (2600-5100 psi)

Rating diagrams

PBL 6/VMP 38 pressure vs. flow
Std. setting @ 5 l/min (1.32 US gpm)



PBL 6/VMP 38/5Y pressure vs. flow
Std. setting @ 5 l/min (1.32 US gpm)



PBL 10/VMP 12 pressure vs. flow
Std. setting @ 5 l/min (1.32 US gpm)

