Type VPR/3/EP/VMP+VE/LPD

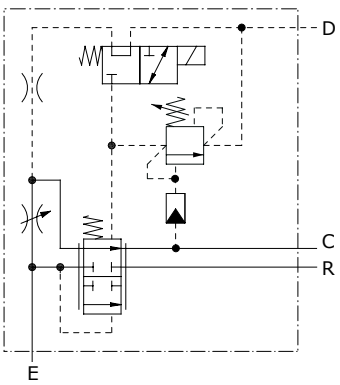
flow control pressure compensated valves

- 3 ways
- Exceeding flow to pressure
- Electric venting
- With pressure relief valve
- Low pressure drop
- Steel body

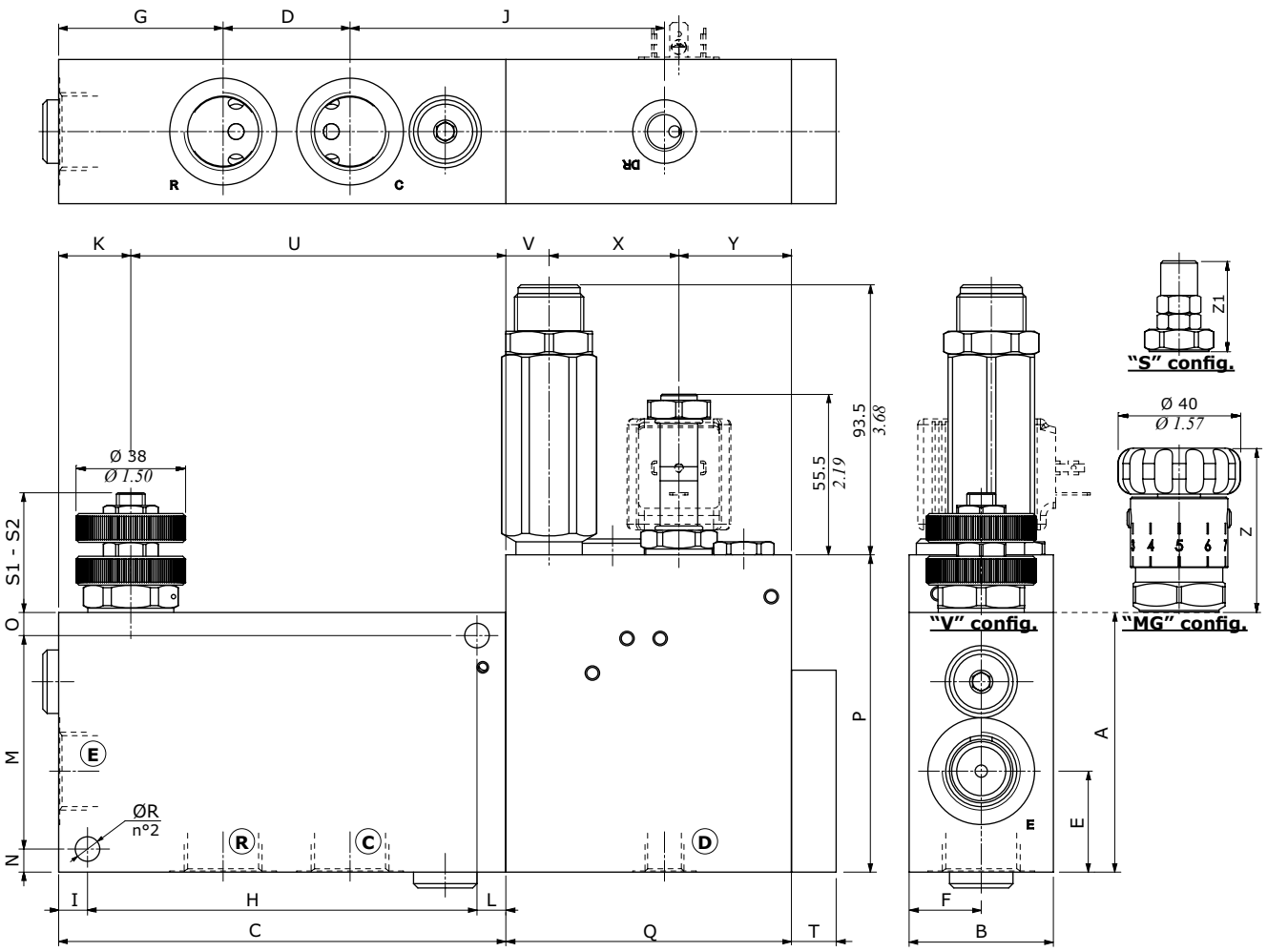
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		VPR/3/EP 34/VMP+VE/LPD	VPR/3/EP 100/VMP+VE/LPD	VPR/3/EP 114/VMP+VE/LPD
Max. inlet flow	*Line E*	150 l/min *(39.6 US gpm)*	240 l/min *(63.4 US gpm)*	450 l/min *(119 US gpm)*
Max. regulated flow	*Line C*	90 l/min *(24 US gpm)*	150 l/min *(39.6 US gpm)*	250 l/min *(66 US gpm)*
Max. pressure			350 bar *(5100 psi)*	
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 temperature for working conditions			from -40°C *(-40°F)* to 100°C *(212°F)*	
Weight	*steel*	9.15 kg *(20.17 lb)*	19 kg *(41.89 lb)*	28 kg *(61.73 lb)*

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



Dimensions



Valve type	Ⓔ	Ⓡ	Ⓒ	Ⓓ
VPR/3/EP 34/VMP+VE/LPD	G3/4	G3/4	G3/4	G1/4
VPR/3/EP 100/VMP+VE/LPD	G1"	G1"	G1"	G1/4
VPR/3/EP 114/VMP+VE/LPD	G1"1/4	G1"1/4	G1"1/4	G1/4

Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	K	J	M	N
VPR/3/EP 34/VMP+VE/LPD	90 *3.54*	50 *1.97*	155 *6.10*	44 *1.73*	35 *1.38*	25 *0.98*	57 *2.24*	135 *5.31*	10 *0.394*	10 *0.394*	25 *0.98*	109 *4.29*	74 *2.91*	8 *0.315*
VPR/3/EP 100/VMP+VE/LPD	130 *5.12*	65 *2.56*	155 *6.10*	57 *2.24*	67.5 *2.66*	32.5 *1.28*	50 *1.97*	130 *5.12*	12.5 *0.49*	12.5 *0.49*	32 *1.26*	121.5 *4.78*	109 *4.29*	10.5 *0.413*
VPR/3/EP 114/VMP+VE/LPD	160 *6.30*	75 *2.95*	184 *7.24*	70 *2.76*	83 *3.27*	37.5 *1.48*	60 *2.36*	159 *6.26*	12.5 *0.49*	12.5 *0.49*	35 *1.38*	147.5 *5.81*	135 *5.31*	12.5 *0.49*

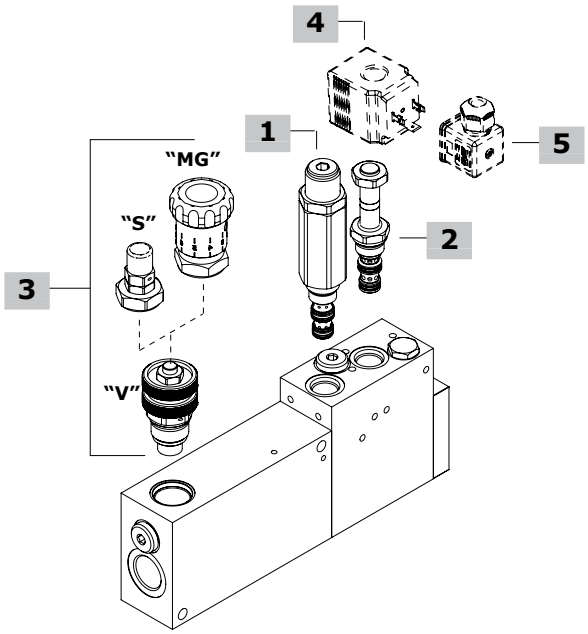
Valve type	O	P	Q	ØR	S1	S2	T	U	V	X	Y	Z	Z1
VPR/3/EP 34/VMP+VE/LPD	8 *0.315*	110 *4.33*	99 *3.90*	8.5 *0.335*	-	-	15.5 *0.61*	130 *5.12*	15 *0.59*	54 *2.13*	39 *1.54*	56.5 *2.22*	38.5 *1.52*
VPR/3/EP 100/VMP+VE/LPD	10.5 *0.413*	147.5 *5.81*	113 *4.45*	12.5 *0.49*	-	-	17.5 *0.69*	123 *4.84*	38 *1.50*	35.5 *1.40*	39.5 *1.56*	56.5 *2.22*	38.5 *1.52*
VPR/3/EP 114/VMP+VE/LPD	12.5 *0.49*	160 *6.30*	144 *5.67*	12.5 *0.49*	-	-	17.5 *0.69*	149 *5.87*	49 *1.93*	41 *1.61*	54 *2.13*	56.5 *2.22*	41.5 *1.63*

Ordering codes and description composition

Port size

VPR/3/EP 34/VMP+VE.NA/LPD/V/VDS.TS/ac

1 **2** **3** **1** **1**



VPR/3/EP/VMP+VE/LPD complete valves

Standard setting 160 bar at 5 l/min (2320 psi at 1.32 US gpm)
Adjustment kit type "V" (handwheel)
TYPE: **VPR/3/EP 34/VMP+VE.NA/LPD/V/VDS.TS/ac**
CODE: 1635042103
DESCRIPTION: steel body, G3/4 ports, setting range 150-300 bar *(2175-4350 psi)*
TYPE: **VPR/3/EP 100/VMP+VE.NA/LPD/V/VDS.TS/ac**
CODE:1635052103
DESCRIPTION: steel body, G1" ports, setting range 150-300 bar *(2175-4350 psi)*
TYPE: **VPR/3/EP 114/VMP+VE/NA/LPD/V/VDS.TS/ac**
CODE:1635062102
DESCRIPTION: steel body, G1"1/4 ports, setting range 150-300 bar *(2175-4350 psi)*
For other steel body configurations, SAE thread and configurations with FPM (Viton) seals please contact our Sales Dpt.

1 Pressure relief valve

TYPE: **VDS/3/2 x VPR/3/EP....LPD/TS** CODE: 1208010400
DESCRIPTION: direct type valve, setting range 150-300 bar *(2175-4350 psi)*, standard setting 160 bar at 5 l/min *(2320 psi at 1.32 US gpm)*

2 Solenoid valve

TYPE	CODE	DESCRIPTION
MC08A/0S2B	0EJ08002051	Normally open (NA) configuration

3 Adjustment kit

TYPE	CODE	DESCRIPTION
For VPR/3/EP 34-100+VMP+VE valves		
V	5KT6130401	"V" handwheel type
MG	5KT6200400	"MG" handknob type
S	5KT6130404	"S" screw type
For VPR/3/EP 114+VMP+VE valve		
V	5KT6340603	"V" handwheel type
MG	5KT6200605	"MG" handknob type
S	5KT6200604	"S" screw type

4 Coil (not included)

TYPE	CODE	DESCRIPTION
BER 12VDC	4SLE001200A	12VDC-ISO4400 coil

For complete coils list see from page 433

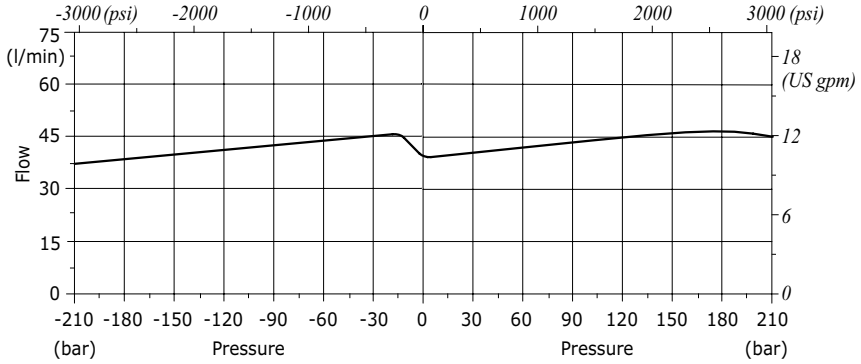
5 Connector (not included)

TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995	Connector

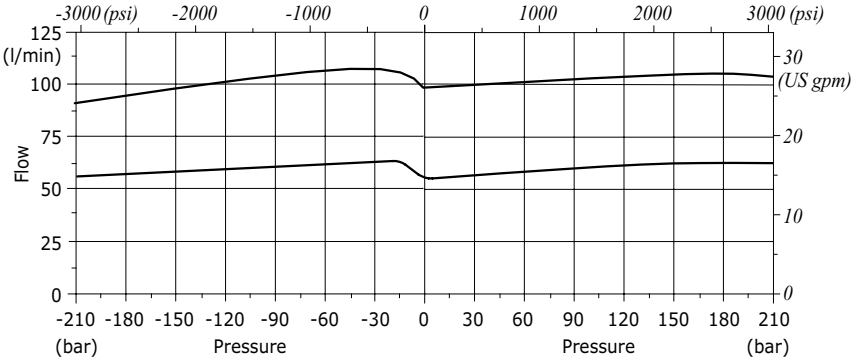
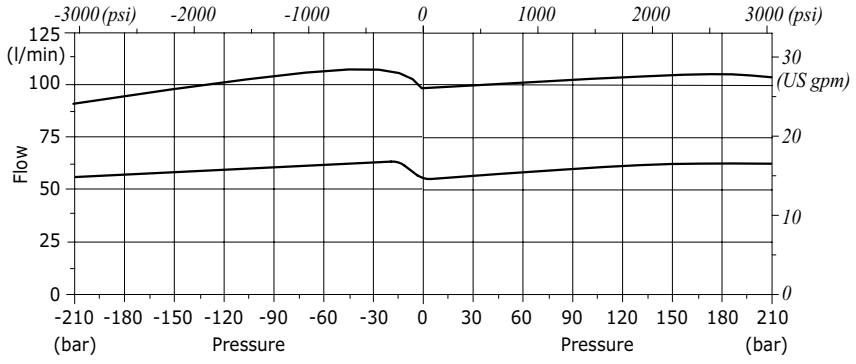
For complete connectors list see from page 433

Rating diagrams

VPR/3/EP 34/VMP+VE/LPD compensation diagram in C changing the Δp between E and R



VPR/3/EP 100/VMP+VE/LPD compensation diagram in C changing the Δp between E and R



VPR/3/EP 114/VMP+VE/LPD compensation diagram in C changing the Δp between E and R