



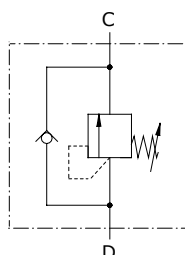
Type VDSRL sequence valves

- Direct acting

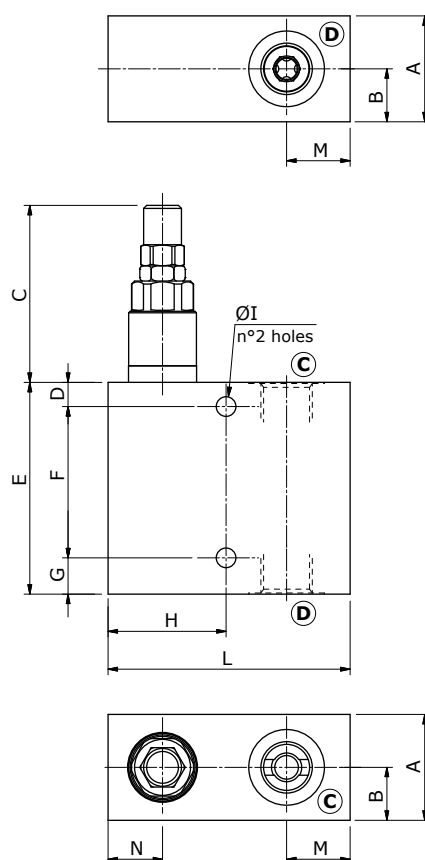
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

	VDSRL 3-14	VDSRL 5-38 VDSRL 5Y-38	VDSRL 5-12 VDSRL 5Y-12	VDSRL 10-12	VDSRL 10-34	VDSRL 20-34	
Nominal flow	10 l/min (2.6 US gpm)	25 l/min (6.6 US gpm)	35 l/min (9.2 US gpm)	50 l/min (13.2 US gpm)	70 l/min (18.5 US gpm)	120 l/min (31.7 US gpm)	
Max. pressure	Aluminium body = 210 bar (3050 psi) Steel body = 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 temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)						
Weight	alum.	0.48 kg (1.06 lb)	0.63 kg (1.39 lb)	0.67 kg (1.48 lb)	1 kg (2.20 lb)	1.10 kg (2.42 lb)	1.80 kg (3.97 lb)
	steel	1.08 kg (2.38 lb)	1.49 kg (3.28 lb)	1.54 kg (3.40 lb)	2.15 kg (4.74 lb)	2.13 kg (4.70 lb)	4 kg (8.82 lb)

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



Dimensions

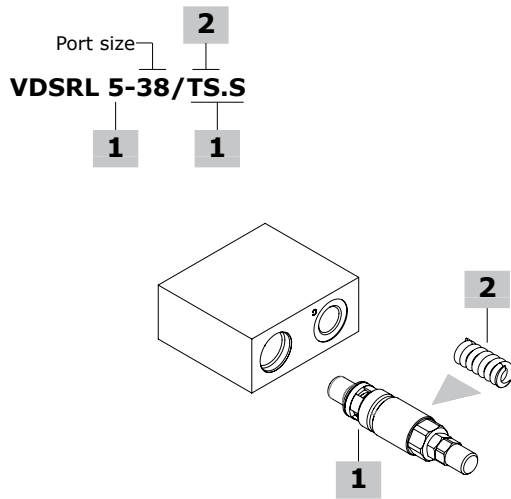


Valve type	All ports
VDSRL 3-14	G1/4
VDSRL 5-38	G3/8
VDSRL 5Y-38	
VDSRL 5-12	G1/2
VDSRL 5Y-12	
VDSRL 10-12	G1/2
VDSRL 10-34	G3/4
VDSRL 20-34	G3/4

Dimensions are in mm-in

Valve type	A	B	C	D	E	F	G	ØI	H	L	M	N
VDSRL 3-14	30-1.18	15-0.59	53-2.09	7-0.27	70-2.75	50-1.97	13-0.51	6.5-0.25	34-1.34	65-2.56	15-0.59	15-0.59
VDSRL 5-38	35-1.38	17.5-0.69	60-1.36	8-0.31	70-2.75	50-1.97	12-0.47	6.5-0.25	39-1.53	80-3.15	21-0.83	18-0.71
VDSRL 5Y-38												
VDSRL 5-12	35-1.38	17.5-0.69	60-1.36	8-0.31	75-2.95	55-2.16	12-0.47	8.5-0.33	39-1.53	80-3.15	21-0.83	18-0.71
VDSRL 5Y-12												
VDSRL 10-12	40-1.57	20-0.79	67-2.64	8-0.31	80-3.15	60-2.36	12-0.47	8.5-0.33	44-1.73	90-3.54	24-0.94	20-0.79
VDSRL 10-34	40-1.57	20-0.79	67-2.64	8-0.31	90-3.54	70-2.75	12-0.47	8.5-0.33	44-1.73	95-3.74	27-1.06	20-0.79
VDSRL 20-34	50-1.97	25-0.98	76.5-3.01	8-0.31	100-3.94	80-3.15	12-0.47	8.5-0.33	53-2.09	110-4.33	32-1.26	25-0.98

Ordering codes and description composition



VDSRL complete valves

With direct acting valve type: standard setting is referred to 5 l/min (1.32 US gpm)

TYPE	CODE	DESCRIPTION
Configuration with G1/4 ports		
VDSRL 03-14/TS.S	1200011102	Aluminium body, setting range 50-200 bar (725-2900 psi) Standard setting 160 bar (2300 psi)
VDSRL 03-14/TS.S/ac	1200012100	Steel body, as previous one
Configuration with G3/8 ports		
VDSRL 5-38/TS.S	1200021102	Aluminium body, setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VDSRL 5-38/TS.S/ac	1200022102	Steel body, as previous one
VDSRL 5Y-38/TS.S	1200021112	Aluminium body, setting range 140-190 bar (2030-2755 psi) Standard setting 150 bar (2200 psi)
Configuration with G1/2 ports		
VDSRL 5-12/TS.S	1200021152	Aluminium body, setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VDSRL 5-12/TS.S/ac	1200022150	Steel body, as previous one
VDSRL 10-12/TS.S	1200031102	Aluminium body, setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VDSRL 10-12/TS.S/ac	1200032100	Steel body, as previous one
Configuration with G3/4 ports		
VDSRL 10-34/TS.S	1200031152	Aluminium body, setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VDSRL 10-34/TS.S/ac	1200032100	Steel body, as previous one
VDSRL 20-34/TS.S	1200041102	Aluminium body, setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VDSRL 20-34/TS.S/ac	1200042100	Steel body, as previous one

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

1 Direct acting pressure relief valves

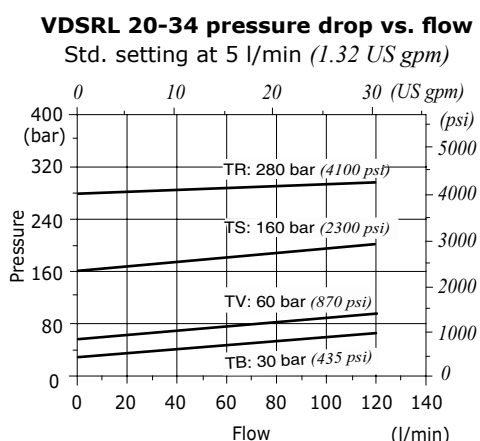
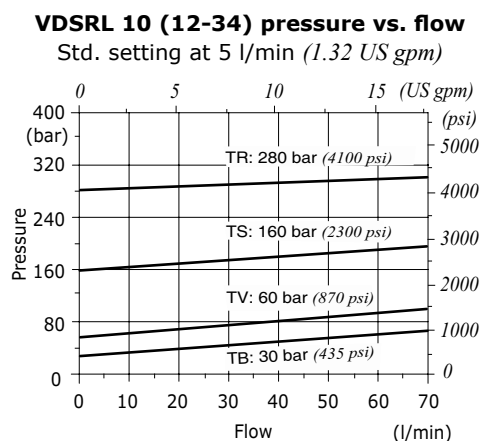
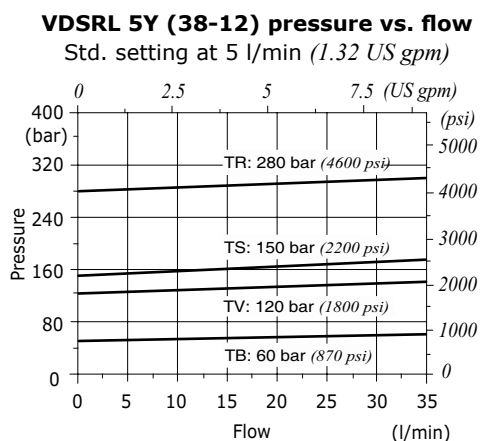
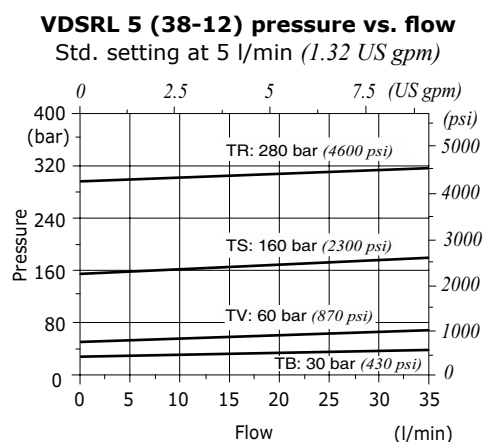
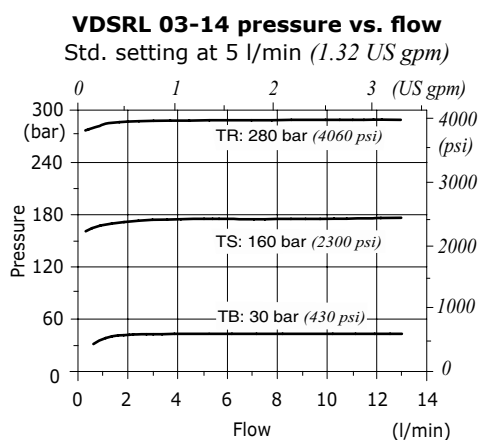
Standard setting 160 bar at 5 l/min (2300 psi at 1.32 US gpm)

TYPE	CODE	DESCRIPTION
For G1/4 ports configuration		
MC08A/0S2B	0MC08002000	Setting range 50-200 bar (725-2900 psi) Standard setting 160 bar (2300 psi)
For G3/8 ports configuration		
VMP 5/TS.S	1100520408	Setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VMP 5Y/TS.S	1100520406	Setting range 140-190 bar (2030-2755 psi) Standard setting 150 bar (2200 psi)
For G1/2 ports configuration		
VMP 5/TS.S	1100520408	Setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VMP 5Y/TS.S	1100520406	Setting range 140-190 bar (2030-2755 psi) Standard setting 150 bar (2200 psi)
VMP 10/TS.S	1100530400	Setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
For G3/4 ports configuration		
VMP 10/TS.S	1100530400	Setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)
VMP 20/TS.S	1100540400	Setting range 50-220 bar (725-3200 psi) Standard setting 160 bar (2300 psi)

2 Pressure setting springs

TYPE	CODE	DESCRIPTION
For MC08A valve		
TB	3ML1092500	Setting range 5-50 bar (72.5-725 psi)
TS	3ML1092501	Setting range 50-200 bar (725-2900 psi)
TR	3ML1092502	Setting range 150-350 bar (2175-5075 psi)
For VMP 5 valve		
TB	3MOL314311	Setting range 5-40 bar (72.5-580 psi)
TV	3MOL314330	Setting range 20-80 bar (290-1150 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 (72.5-1150 psi)
TV	3MOL314330	Setting range 40-150 bar (580-2200 psi)
TS	3ML1143400	Setting range 140-190 bar (2050-2750 psi)
TR	3MOL315330	Setting range 180-350 bar (2600-5075 psi)
For VMP 10 valve		
TB	3MOL316410	Setting range 5-40 bar (72.5-580 psi)
TV	3ML1154300	Setting range 20-80 bar (290-1150 psi)
TS	3MOL317420	Setting range 50-220 bar (725-3200 psi)
TR	3MOL317440	Setting range 180-350 bar (2600-5100 psi)
For VMP 20 valve		
TB	3ML1184300	Setting range 5-40 bar (72.5-580 psi)
TV	3ML1174500	Setting range 20-80 bar (290-1150 psi)
TS	3ML1204200	Setting range 50-220 bar (725-3200 psi)
TR	3ML1214500	Setting range 180-350 bar (2600-5100 psi)

Rating diagrams





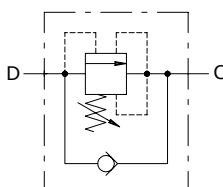
Type VDSRL/APP sequence valves

- Direct acting
- Back-pressure proof type

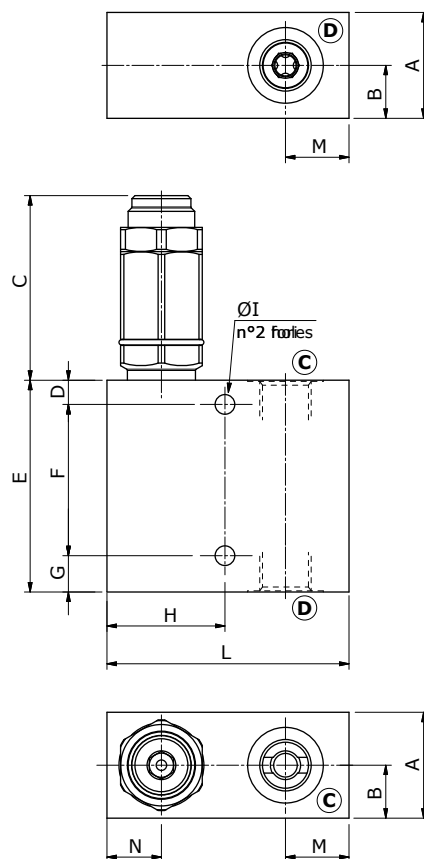
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

		VDSRL/APP 5-38	VDSRL/APP 5-12	VDSRL/APP 10-12	VDSRL/APP 10-34	VDSRL/APP 20-34
Nominal flow		25 l/min (6.6 US gpm)	35 l/min (9.2 US gpm)	50 l/min (13.2 US gpm)	70 l/min (18.5 US gpm)	120 l/min (31.7 US gpm)
Max. pressure		Aluminium body = 210 bar (3050 psi) Steel body = 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 temp. for working conditions		from -40°C (-40°F) to 100°C (212°F)				
Weight	alum.	0.75 kg (1.65 lb)	0.78 kg (1.72 lb)	1.02 kg (2.25 lb)	1.12 kg (2.47 lb)	2.03 kg (4.48 lb)
	steel	1.60 kg (3.53 lb)	1.65 kg (3.64 lb)	2.17 kg (4.78 lb)	2.46 kg (5.42 lb)	4.24 kg (9.35 lb)

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



Dimensions



Valve type	All ports
VDSRL/APP 5-38	G3/8
VDSRL/APP 5-12	G1/2
VDSRL/APP 10-12	G1/2
VDSRL/APP 10-34	G3/4
VDSRL/APP 20-34	G3/4
Valve type	All ports
VDSRL/APP 5-38/SAE	SAE8

Dimensions are in mm-in

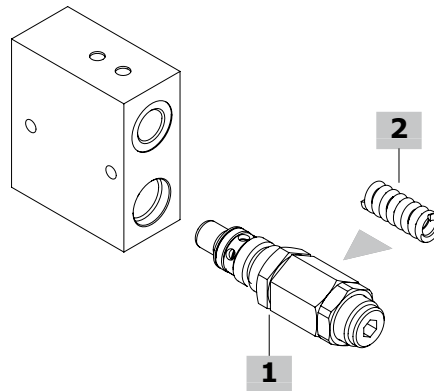
Valve type	A	B	C	D	E	F	G	H	L	M	ØI	N
VDSRL/APP 5-38	35-1.38	17.5-0.69	62-2.44	8-0.31	70-2.75	50-1.97	12-0.47	39-1.53	80-3.15	21-0.83	6.5-0.25	18-0.71
VDSRL/APP 5-38/SAE	35-1.38	17.5-0.69	62-2.44	8-0.31	75-2.95	55-2.16	12-0.47	39-1.53	80-3.15	21-0.83	8.5-0.33	18-0.71
VDSRL/APP 10-12	40-1.57	20-0.79	62-2.44	8-0.31	80-3.15	60-2.36	12-0.47	44-1.73	90-3.54	24-0.94	8.5-0.33	20-0.79
VDSRL/APP 10-34	40-1.57	20-0.79	62-2.44	8-0.31	90-3.54	70-2.75	12-0.47	44-1.73	95-3.74	27-1.10	8.5-0.33	20-0.79
VDSRL/APP 20-34	50-1.97	25-0.98	82-3.23	8-0.31	100-3.94	80-3.15	12-0.47	53-2.09	110-4.33	32-1.26	8.5-0.33	25-0.98

Ordering codes and description composition

Port size

VDSRL 5-38/APP/TS.S

1 2 1



VDSRL/APP complete valves

With direct acting valve: standard setting 160 bar at 5 l/min (2320 psi at 1.32 US gpm)

TYPE	CODE	DESCRIPTION
Configuration with G3/8 ports		
VDSRL 5-38/APP/TS.S	1201021101	Aluminium body, setting range 50-220 bar (725-3200 psi).
VDSRL 5-38/APP/TS.S/ac	1201022100	Steel body, as previous one
Configuration with G1/2 ports		
VDSRL 5-12/APP/TS.S	1201021151	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSRL 10-12/APP/TS.S	1201031100	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSRL 10-12/APP/TS.S/ac	1201032100	Steel body, as previous one
Configuration with G3/4 ports		
VDSRL 10-34/APP/TS.S	1201031150	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSRL 10-34/APP/TS.S/ac	1201031150	Steel body, as previous one
VDSRL 20-34/APP/TS.S	1201041100	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSRL 20-34/APP/TS.S/ac	1201042100	Steel body, as previous one
Configuration with SAE8 ports		
VDSRL 5-38/APP/TS.S/SAE	1201021200	Aluminium body, setting range 50-220 bar (725-3200 psi).
VDSRL 5-38/APP/TS.S/ac/SAE	1201022203	Steel body, as previous one

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

1 Direct acting pressure relief valve

Standard setting 160 bar at 5 l/min (2320 psi at 1.32 US gpm)

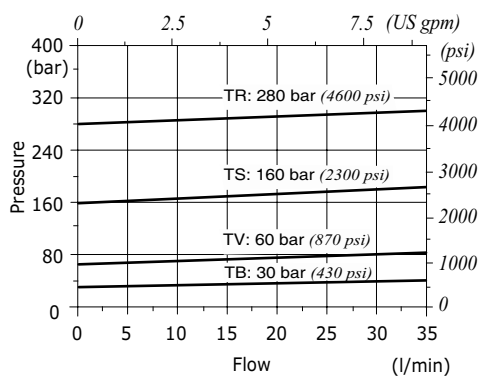
TYPE	CODE	DESCRIPTION
For G/8, G1/2 and SAE8 ports configuration		
VMP 5/APP/TS.S	1101020400	Direct acting type, setting range 50-220 bar (725-3200 psi)
For G1/2 and G3/4 ports configuration		
VMP 10/APP/TS.S	1101030400	Direct acting type, setting range 50-220 bar (725-3200 psi)
For G3/4 ports configuration		
VMP 20/APP/TS.S	1101040400	Direct acting type, setting range 50-220 bar (725-3200 psi)

2 Pressure setting springs

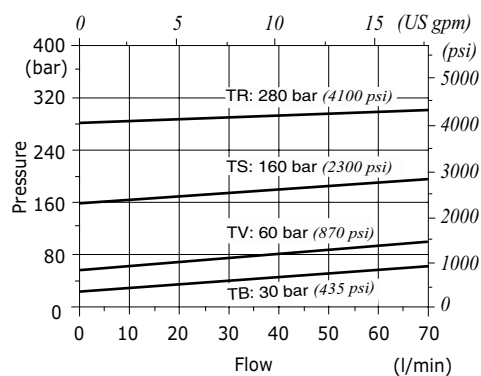
TYPE	CODE	DESCRIPTION
For VMP 5/APP and VMP 10/APP valves		
TB	3MOL314330	Setting range 5-50 bar (72.5-725 psi)
TV	3ML1144000	Setting range 20-100 bar (290-1450 psi)
TS	3ML1144001	Setting range 50-220 bar (725-3200 psi)
TR	3ML1144002	Setting range 100-350 bar (1450-5100 psi)
For VMP 20/APP valve		
TB	3ML1174500	Setting range 5-50 bar (72.5-725 psi)
TV	3ML1194500	Setting range 20-100 bar (290-1450 psi)
TS	3ML1194501	Setting range 50-220 bar (725-3200 psi)
TR	3ML1194502	Setting range 100-350 bar (1450-5100 psi)

Rating diagrams

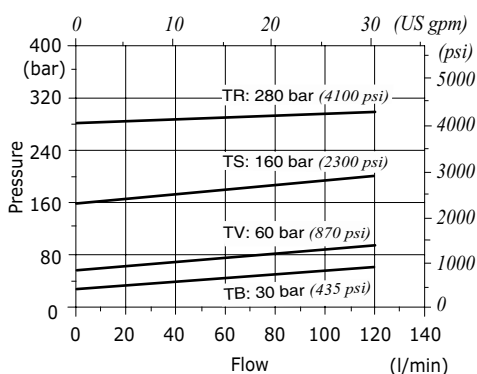
VDSRL 5 (38-12)/APP pressure vs. flow
Std. setting at 5 l/min (1.32 US gpm)



VDSRL 10 (12-34)/APP pressure vs. flow
Std. setting at 5 l/min (1.32 US gpm)



VDSRL 20-34/APP pressure vs. flow
Std. setting at 5 l/min (1.32 US gpm)





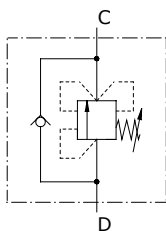
Type VDSD/B sequence valves

- Differential acting

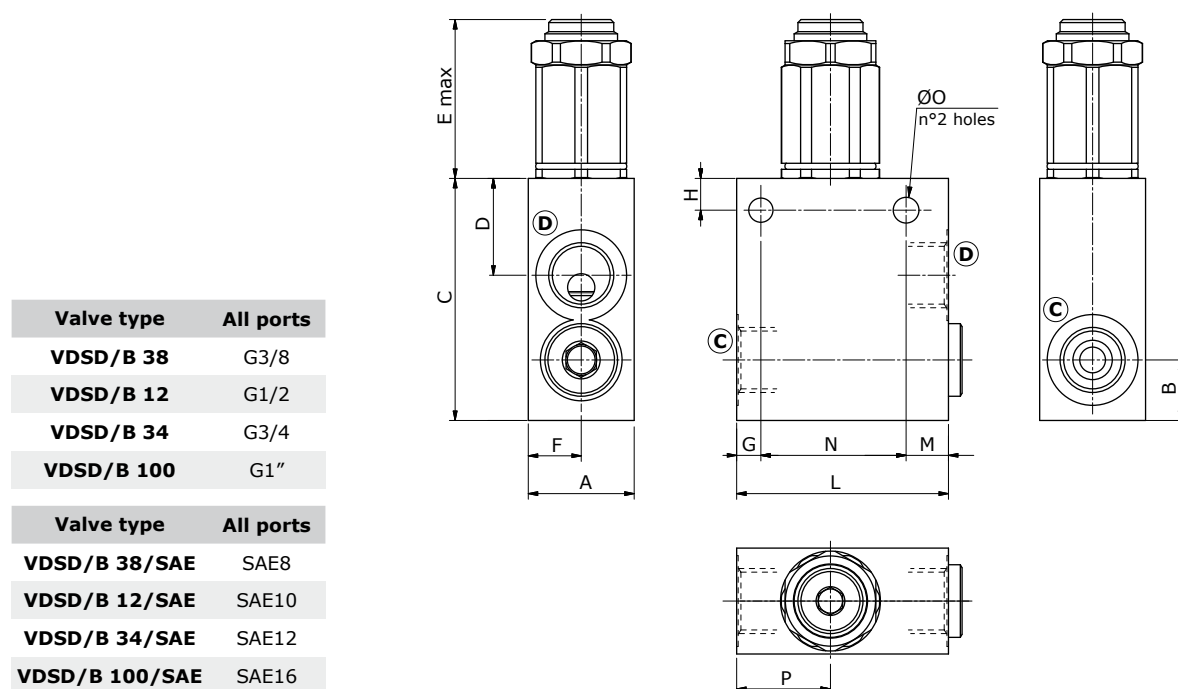
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

	VDSD/B 38	VDSD/B 12	VDSD/B 34	VDSD/B 100
Nominal flow	30 l/min (7.9 US gpm)	60 l/min (16 US gpm)	120 l/min (31.7 US gpm)	200 l/min (52.8 US gpm)
Max. pressure	Aluminium body = 210 bar (3050 psi) Steel body = 350 bar (5100 psi)			
Fluid	mineral based oil			
Viscosity	10-200 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	alum.	0.60 kg (1.32 lb)	0.80 kg (1.76 lb)	1.13 kg (2.49 lb)
	steel	1.06 kg (2.34 lb)	1.53 kg (3.37 lb)	2.33 kg (5.14 lb)

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



Dimensions



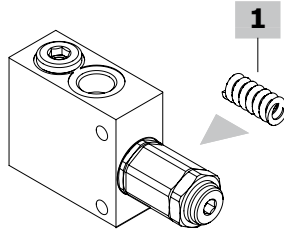
Dimensions are in mm-in

Valve type	A	B	C	D	E max	F	G	ØO	H	L	M	N	P
VDSD/B 38	30-1.18	16-0.63	74-2.91	32,5-1.28	59-2.32	15-0.59	8-0.31	8.5-0.33	11.5-0.45	60-2.36	12-0.47	40-1.57	28-1.10
VDSD/B 38/SAE													
VDSD/B 12	35-1.38	20-0.79	80-3.15	32-1.26	58-2.28	17.5-0.69	8-0.31	8.5-0.33	10.5-0.41	70-2.75	14-0.55	48-1.89	31-1.22
VDSD/B 12/SAE													
VDSD/B 34	40-1.57	22-0.87	90-3.54	34-1.34	58-2.28	20-0.79	10-0.39	10.5-0.41	11-0.43	90-3.54	10-0.39	70-2.75	36-1.42
VDSD/B 34/SAE													
VDSD/B 100	60-2.36	38-1.50	126-4.96	42-1.65	51,5-2.03	30-1.18	12-0.47	12-0.47	12-0.47	90-3.54	18-0.71	60-2.36	36-1.42
VDSD/B 100/SAE													

Ordering codes and description composition

Port size
VDSD/B 38/TS.S

1



VDSD/B complete valves

With differential valve type: standard setting 160 bar at 5 l/min (2320 psi at 1.32 US gpm)

TYPE	CODE	DESCRIPTION
Configuration with G3/8 standard thread		
VDSD/B 38/TS.S	1204021102	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSD/B 38/TS.S/ac	1204022101	Steel body, as previous one
Configuration with G1/2 standard thread		
VDSD/B 12/TS.S	1204031102	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSD/B 12/TS.S/ac	1204032100	Steel body, as previous one
Configuration with G3/4 standard thread		
VDSD/B 34/TS.S	1204041102	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSD/B 34/TS.S/ac	1204042100	Steel body, as previous one
Configuration with G1" standard thread		
VDSD/B 100/TS.S	1204051102	Aluminium body, setting range 50-220 bar (725-3200 psi)
VDSD/B 100/TS.S/ac	1204052100	Steel body, as previous one
Configuration with SAE8 standard thread		
VDSD/B 38/TS.S/SAE	1204021200	Aluminium body, setting range 50-220 bar (725-3200 psi)
Configuration with SAE10 standard thread		
VDSD/B 12/TS.S/SAE	1204031201	Aluminium body, setting range 50-220 bar (725-3200 psi)
Configuration with SAE12 standard thread		
VDSD/B 34/TS.S/SAE	1204041200	Aluminium body, setting range 50-220 bar (725-3200 psi)
Configuration with SAE16 standard thread		
VDSD/B 100/TS.S/SAE	1204051200	Aluminium body, setting range 50-220 bar (725-3200 psi)

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

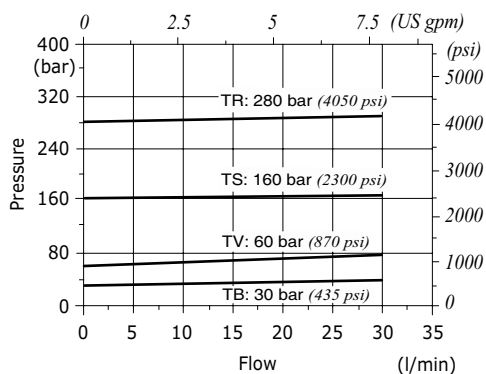
1 Pressure setting springs

TYPE	CODE	DESCRIPTION
For VDSD/B 38 valve		
TV	3ML1144000	Setting range 20-100 bar (290-1450 psi)
TS	3ML1144001	Setting range 50-220 bar (725-3200 psi)
TR	3ML1144002	Setting range 100-350 bar (1450-5100 psi)
For VDSD/B 12, 34 and 100 valves		
TV	3ML1164000	Setting range 20-100 bar (290-1450 psi)
TS	3ML1164001	Setting range 50-220 bar (725-3200 psi)
TR	3ML1164002	Setting range 100-350 bar (1450-5100 psi)

Rating diagrams

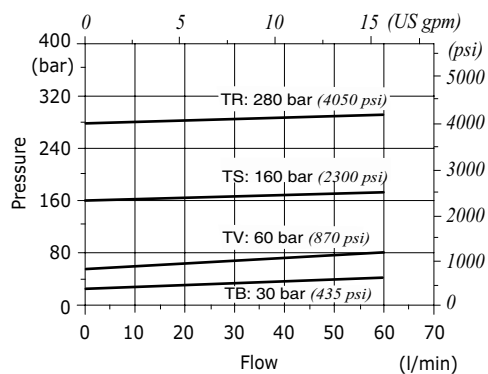
VDSD/B 38 pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



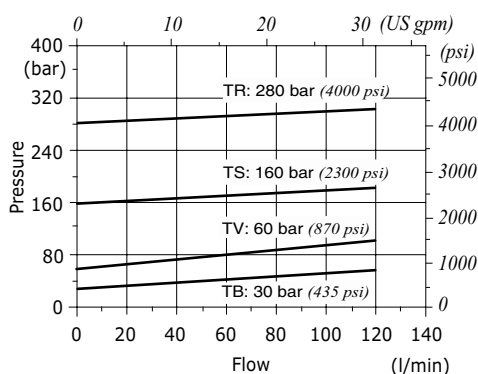
VDSD/B 12 pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



VDSD/B 34 pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



VDSD/B 100 pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)

