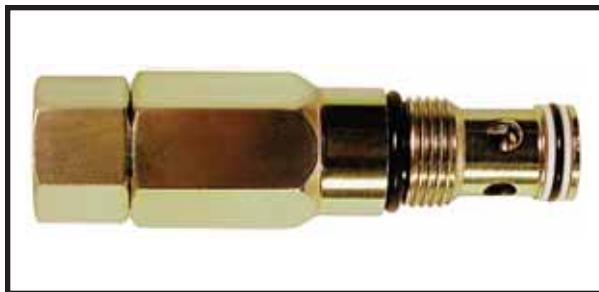




Differential Relief Valves

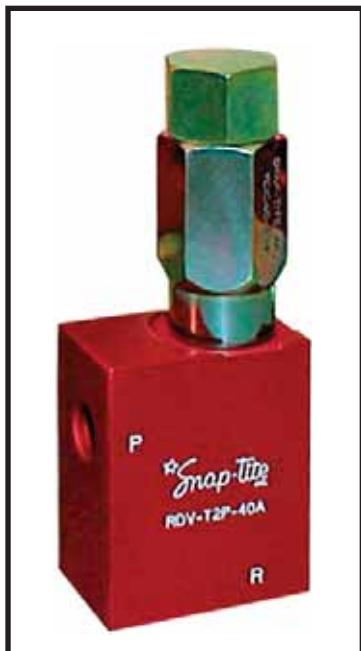
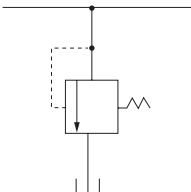
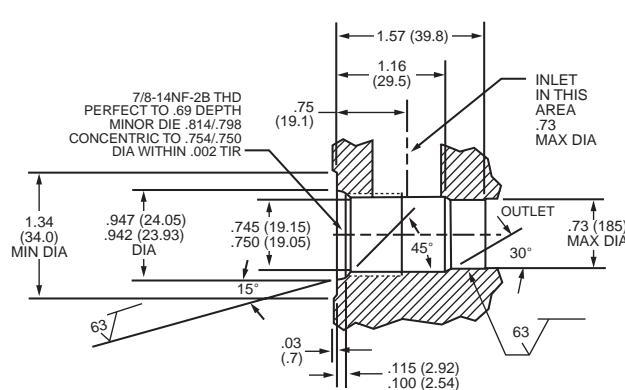
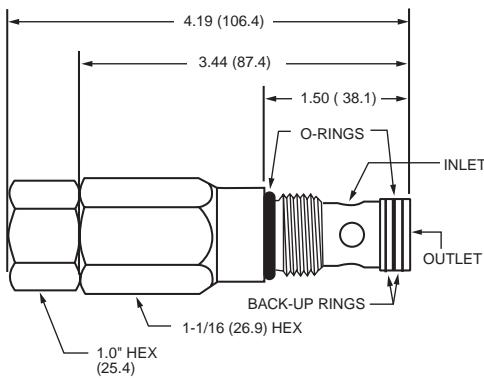


RDC - Relief Valve Cartridge

The RDC is a basic differential area relief cartridge which will relieve flows to 40 gpm (151 l/min). The RDC cartridge is supplied in steel with a corrosion resistant yellow zinc dichromate plating.

Working Pressure – to 4,000 psi (276 bar)

Weight – Approx. 8 oz. (.23 kg)



RDV - Single Relief Valve

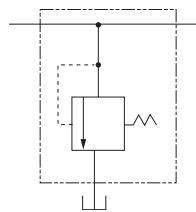
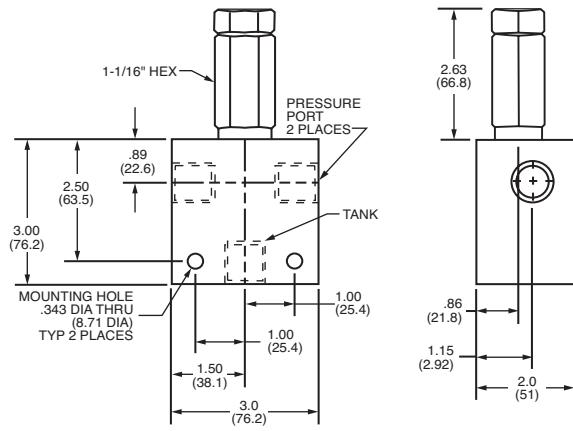
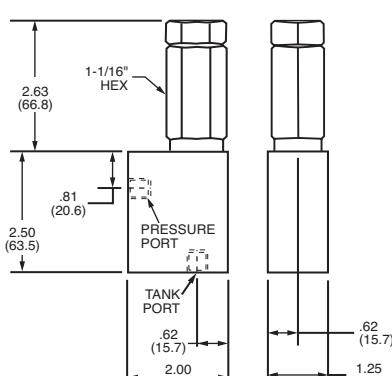
The RDV style valve consists of a standard plated steel RDC cartridge in an anodized aluminum housing of either inline or tee configuration. Standard valves are manufactured with either NPSF or SAE O-ring sealed porting to 1".

Working Pressure – to 4,000 psi (276 bar)

Weight – Approx. 1 lb. (.45 kg)

3/8", 1/2" Ported
Single Relief Valve (RDV)

3/4", 1" Ported
Single Relief Valve (RDV)





Differential Relief Valves

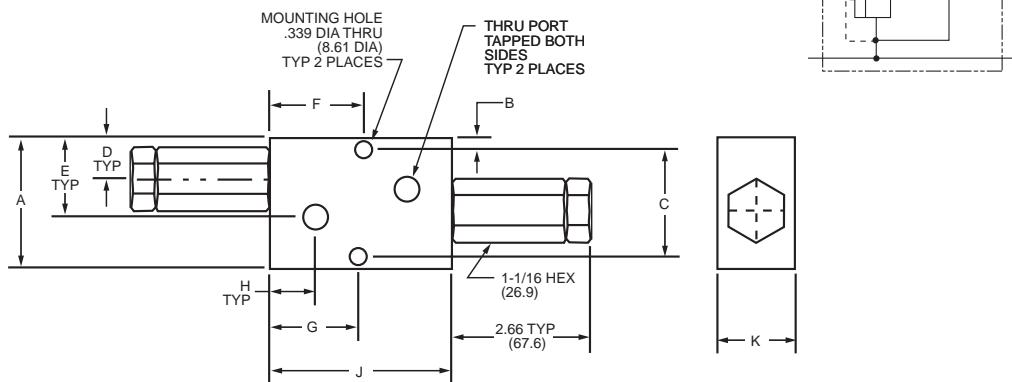


MDD - Dual Relief Valve

The MDD style valve features two RDC cartridges in a single housing with standard ports from 3/8" to 1" in either NPSF or SAE O-ring sealed threads. A typical application for this type of valve would be shock relief protection for actuator circuits. Pressure surges on either side of the circuit can be vented to the opposite side through the single valve body design.

Working Pressure – to 4,000 psi (276 bar)

Weight – Approx. 2 lbs. (.91 kg)



Port Size	A		B		C		D		E		F		G		H		J		K	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
3/8"	2.50	63.5	.22	5.6	2.052	52.1	.80	20.3	1.52	38.6	1.81	46.0	1.69	42.9	.90	22.9	3.50	88.9	1.50	38.1
1/2"	2.50	63.5	.22	5.6	2.052	52.1	.80	20.3	1.52	38.6	1.81	46.0	1.69	42.9	.90	22.9	3.50	88.9	1.50	38.1
3/4"	3.00	76.2	.25	6.4	2.500	63.5	.96	24.4	2.08	52.8	1.30	33.0	2.32	58.9	1.00	25.4	3.62	91.9	1.75	44.5
1"	3.00	76.2	.25	6.4	2.500	63.5	.96	24.4	2.08	52.8	1.30	33.0	2.32	58.9	1.00	25.4	3.62	91.9	1.75	44.5



MCD - Dual Relief Valve with Make-Up Checks

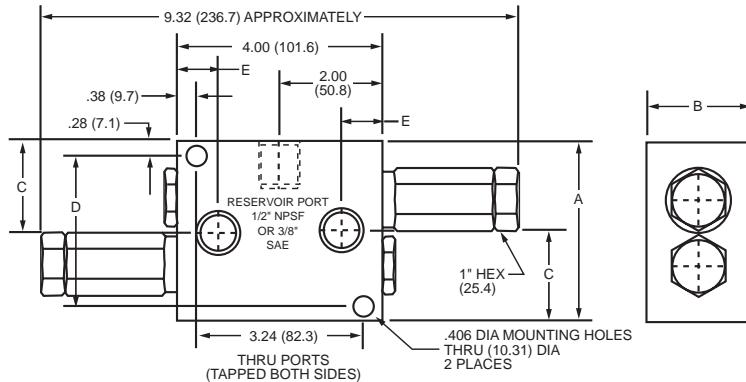
The MCD style relief valve is designed with two RDC relief cartridges and two soft seated, plated steel, free reverse check valves in a single anodized aluminum body. This valve is best applied in hydraulic circuits where pressure surges are relieved to an unequal volume. These checks prevent cavitation or pressure surge rise by allowing oil to be drawn from the reservoir or relieve to the reservoir in the single body design.

Working Pressure

– to 4,000 psi (276 bar)

Weight

– Approx. 3 lbs. (1.36 kg)



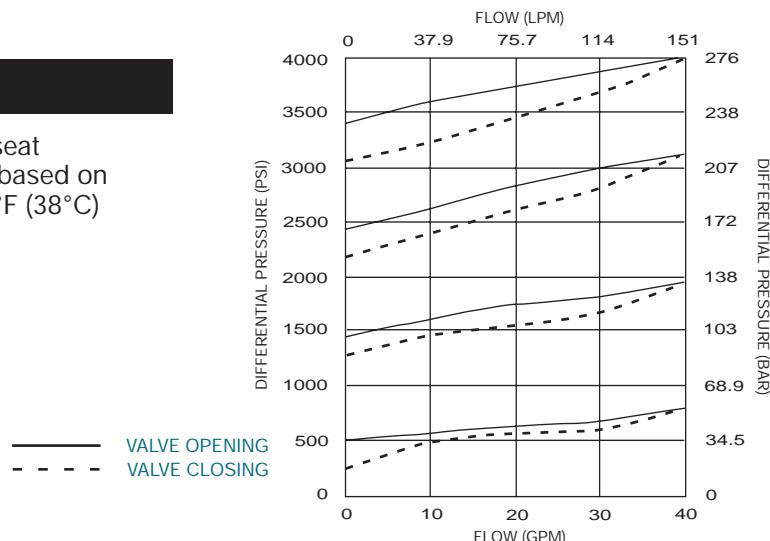
Port Size	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
1/4"	3.50	88.9	2.00	50.8	1.78	45.2	2.94	74.7	.80	20.3
3/8"	3.50	88.9	2.00	50.8	1.78	45.2	2.94	74.7	.80	20.3
1/2"	3.50	88.9	2.00	50.8	1.78	45.2	2.94	74.7	.80	20.3
3/4"	4.00	101.6	2.00	50.8	2.14	54.4	3.44	87.4	.91	23.1
1"	4.00	101.6	2.00	50.8	2.14	54.4	3.44	87.4	.91	23.1



Differential Relief Valves

Pressure Drop Information

The curves at the right indicate typical crack and reseat characteristics through the standard RDC cartridge based on 3 gpm (11 l/min) flow rate, using 175 SSU oil at 100°F (38°C)



Ordering Information

RELIEF CARTRIDGE				RELIEF VALVES				
Style	Max. Flow	Pressure Range	Seal Material	Valve Style	Relief Adjustment	Thread Type	Pressure Range	Seal Material
Relief Differential Cartridge	40 40 gpm (151 l/min)	15 500-1500 psi (35-104 bar) 850 psi (59 bar) Std. setting @ 3 gpm (11 l/min) 25 500-2500 psi (35-172 bar) Std. setting 1500 psi (104 bar) @ 3 gpm (11 l/min) 40 1000-4000 psi (69-276 bar) Std. setting 2500 psi (172 bar) @ 3 gpm (11 l/min) All pressures are set at 3 gpm (11 l/min)	No letter – Viton (Std) A Buna N E Ethylene Propylene Rubber	RDV Single Differential Relief Valve MDD Dual Differential Relief Valve MCD Dual Differential Relief Valve with make-up checks	T Screw Adjustment	NPSF 3P = 3/8" 4P = 1/2" 6P = 3/4" 8P = 1" SAE 6S = 3/8" 8S = 1/2" 12S = 3/4" 16S = 1"	15 500-1500 psi (35-104 bar) 850 psi (59 bar) Std. setting @ 3 gpm (11 l/min) 25 500-2500 psi (35-172 bar) Std. setting 1500 psi (104 bar) @ 3 gpm (11 l/min) 40 1000-4000 psi (69-276 bar) Std. setting 2500 psi (172 bar) @ 3 gpm (11 l/min) All pressures are set at 3 gpm (11 l/min)	No letter – Viton (Std) A Buna N E Ethylene Propylene Rubber

! WARNING !

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