BACKFLOW DIRECT DERINGER 40/ 40X/ 50/ 50X/ G/ GX

SIZE

2", 2 ½", 3", 4", 6", 8"

DESCRIPTION

This is a reduced pressure assembly and a Reduced pressure detector assembly. Production began in 2014 on the models 40/40X/50/50X while production on the 40G/40GX/50G/50GX began in 2018. The 40/40X/50/50X come with grooved end integral butterfly shut offs while the 40G/40GX/50G/50GX comes with OSY flanged end shut offs. The body is a fabricated stainless steel design with a bolted single access cover. The checks are a modular design made of Noryl plastic material. The check discs are silicone rubber. The check modules are held into the body with bolts that extend from the outside of the body into a slot to hold the check modules from the body for repair. The check uses a torsion spring design. Spring tension does not need to be released to change the check disc. The relief valve uses a stainless steel body that screws onto the bottom of the check body and uses an external relief valve sensing line. The relief valve uses a rolling diaphragm design with a silicone disc. The relief valve spring is contained when the relief valve cover is removed and is released by the removal of an e-ring of the relief valve stem. The reduced pressure detector assembly bypass is a type 2 design with a single check piped around the mainline second check.

BASIC REPAIR KIT

Repair kit contains check discs and O'rings

<u>SIZE</u>	KIT NO
2" - 4"	BFD-RT250*
6" - 8"	BFD-RT800*

Bypass assembly repair kit contains disc, disc holder and O'ring

SIZE	KIT NO
3/4"	BFD-1010

IMPORTANT FEATURES

~Stainless Steel Body

~Integral Butterfly Shut offs

~Norvl Plastic Check Modules

~Type 2 Bypass

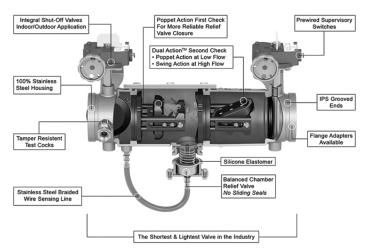
~Factory Repair Information Enclosed



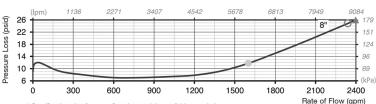
Deringer[™] 40

Reduced Pressure Zone Assembly

Sizes: 2"**-8"



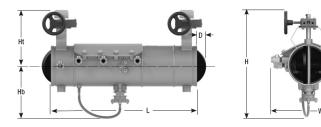
Flow Performance 1893 Pressure Loss (psid) 30 26 179 22 18 151 124 14 96 69 10 200 300 500 600 700 800 Rate of Flow (gpm)



Specific orientation & agency flow characteristics available on website

Dimensions - Weights

D



Size	Model	Ht		Hb		L		D		Н		W		Weight	
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg
2 (21/2)**	40	7.1	180	8.7	221	22.1	561	0.0	0	15.8	401	11.0	279	44	20
21/2	40	7.1	180	8.7	221	18.7	475	0.0	0	15.8	401	11.0	279	42	19
3	40	7.4	188	8.7	221	18.7	475	0.0	0	16.1	409	11.0	279	44	20
4	40	7.9	201	8.7	221	18.7	475	0.2	5	16.6	422	11.0	279	46	21
6	40X*														
8	40	10.4	264	10.7	272	31.0	787	1.8	46	21.1	536	13.8	351	145	66

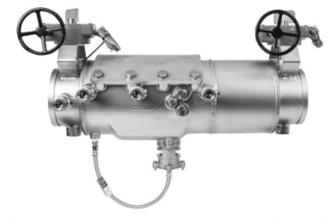
Size	Model	Ht		Hb L		D		Н		W		Weight			
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg
6	40X	9.6	244	10.7	272	28.625	727	1.0	25	20.3	516	13.8	351	126	57



Deringer[™] 40X

Low Head Loss Reduced Pressure Zone Assembly

Sizes: 6"



Rate of Flow (gpm)

Materials

Valve Housing: 304 Stainless Steel
Valve Cover: 304 Stainless Steel
SOV Disks: EPDM/304SS
SOV Shafts: 304 Stainless Steel
RV Spring: 302 Stainless Steel

SOV Bearings: Teflon® fluoropolymer/Bronze

Non-wetted Bolts: Grade 8 Zinc Plated Silicone (NSF) Check Disks: Wetted Fasteners: 18-8 Stain ess Steel **RV** Housing: 304 Stainless Steel Check Springs: 17-7 Stainless Steel Check Pins: 17-7/18-8 Stainless Steel Check Seats: Noryl® Polymer (NSF) Buna-N (NSF) O-rings:

O-rings: Buna-N (NSF)
RV Hose: Braided Stainless Steel Wire

Pressure - Temperature

Temperature Range: 33°F – 140°F Working Pressure: 10 – 175psi

 $\label{eq:theorem} \mbox{Teflon} \mbox{$^{\circledcirc}$ is a registered trademark of The Chemours Company.} \\ \mbox{Nory} \mbox{$^{\circledcirc}$ is a registered trademark of SABIC Global Technologies B.V.} \\$

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

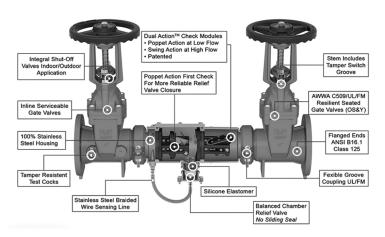


Relief Valve with Sensing Line

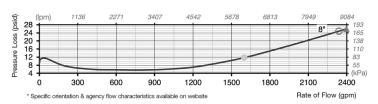
Deringer[™] 40G

Reduce Pressure Zone Assembly

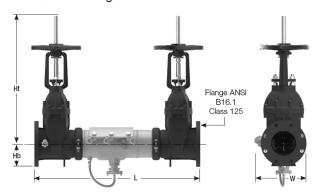
Sizes: 21/2"-8"



Flow Performance Pressure Loss (psid) 24 165 20 138 16 110 2 1/2" 83 12 55 100 400 500 600 700 800 Rate of Flow (gpm) *| Specific orientation & agency flow characteristics available on website



Dimensions - Weights



Model	Ht		Hb		L		Ht+Hb		W		Weight	
1000	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
40G	19.0	483	9.3	236	31.9	810	28.3	719	11.0	279	125	57
40G	19.5	495	9.3	236	31.9	810	28.3	732	11.0	279	129	59
40G	22.5	572	9.3	236	33.9	861	31.8	808	11.0	279	163	74
40GX*												
40G	39.4	1001	11.5	292	45.0	1143	51.0	1295	14.6	429	455	206
	40G 40G 40G 40GX*	in. 40G 19.0 40G 19.5 40G 22.5 40GX*	in. mm 40G 19.0 483 40G 19.5 495 40G 22.5 572 40GX*	in. mm in. in.	in. mm in. mm 40G 19.0 483 9.3 236 40G 19.5 495 9.3 236 40G 22.5 572 9.3 236 40GX* 40GX* 40GX* 40GX* 40GX*	40G 19.0 483 9.3 236 31.9 40G 19.5 495 9.3 236 31.9 40G 22.5 572 9.3 236 33.9	40G 19.0 483 9.3 236 31.9 810 40G 19.5 495 9.3 236 31.9 810 40G 22.5 572 9.3 236 33.9 861 40GX* 40GX* 40GX* 40GX* 40GX* 40GX*	40G 19.0 483 9.3 236 31.9 810 28.3 40G 19.5 495 9.3 236 31.9 810 28.3 40G 22.5 572 9.3 236 33.9 861 31.8 40GX* 40GX	40G 19.0 483 9.3 236 31.9 810 28.3 719 40G 19.5 495 9.3 236 31.9 810 28.3 719 40G 19.5 495 9.3 236 31.9 810 28.3 732 40G 22.5 572 9.3 236 33.9 861 31.8 808	40G 19.0 483 9.3 236 31.9 810 28.3 719 11.0 40G 19.5 495 9.3 236 31.9 810 28.3 719 11.0 40G 22.5 572 9.3 236 33.9 861 31.8 808 11.0 40GX* 40GX*	40G 19.0 483 9.3 236 31.9 810 28.3 719 11.0 279 40G 19.5 495 9.3 236 31.9 810 28.3 719 11.0 279 40G 19.5 495 9.3 236 31.9 810 28.3 732 11.0 279 40G 22.5 572 9.3 236 33.9 861 31.8 808 11.0 279 40GX* 40GX* 22.5 572 9.3 236 33.9 861 31.8 808 11.0 279	40G 19.0 483 9.3 236 31.9 810 28.3 719 11.0 279 125 40G 19.5 495 9.3 236 31.9 810 28.3 732 11.0 279 125 40G 22.5 572 9.3 236 33.9 861 31.8 808 11.0 279 163 40GX* 40

Size	Model	,	Ht		Hb		Ht+Hb		L		W		nt
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
6	40GX	30.9	784	10.5	266	41.3	923	39.9	1014	13.8	351	332	151



Deringer[™] 40**GX**

Low Head Loss Reduced Pressure **Zone Assembly**

Sizes: 6"



Flow Performance = Rated Flow = UL Tested = 15 fps 6"(X) Pressure Loss 1200 1600 Rate of Flow (gpm)

Materials

25 - 9

* Specific orientation & agency flow characteristics available on website

Valve Housing: 304 Stainless Steel Valve Cover: 304 Stainless Steel SOV Disks: EPDM/304SS SOV Shafts: 304 Stainless Steel RV Spring: 302 Stainless Steel

SOV Bearings: Teflon® fluoropolymer/Bronze

Non-wetted Bolts: Grade 8 Zinc Plated Check Disks: Silicone (NSF) Wetted Fasteners: 18-8 Stainless Steel **RV** Housing: 304 Stainless Steel Check Springs: 17-7 Stainless Steel Check Pins: 17-7/18-8 Stainless Steel Check Seats: Noryl® Polymer (NSF) O-rings: Buna-N (NSF)

RV House: Braided Stainless Steel Wire

Pressure — Temperature

Temperature Range: 33°F - 140°F Working Pressure: 10 - 175psi

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



Relief Valve with Sensing Line