BACKFLOW DIRECT DERINGER 20 / 30 / G

SIZE

2", 2¹/₂", 3", 4", 6", 8"

DESCRIPTION

This is a Double check and Double check Detector Assembly. Production began in 2014 on the models 20 and 30 while production of the 20G & 30G began in 2018. The model 20 & 30 come with grooved end integral butterfly shut offs while the 20G & 30G 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 in place. These allen head bolts have to be unscrewed to remove the check modules from the body for repair. The check uses a torsion spring design. Spring tensions does not need to be released to change the check disc. The Double check 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>	<u>KIT NO</u>
2" - 4"	BFD-1140
6"	BFD-1160
8"	BFD-1180

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

~Noryl Plastic Check Modules

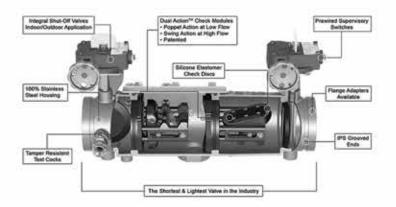
~Type 2 Bypass

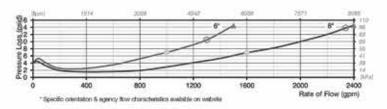
~Factory Repair Information Enclosed



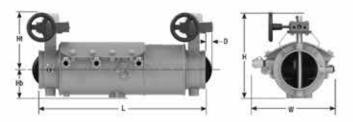
Deringer[™] **20**Double Check Valve Assembly

Sizes: 2"**- 8"





Dimensions - Weights



Size Model		Ht		Hb .				0		. (#)		W		Weight	
ři.		181	Terr	81.	(man)	21.	(mm	100	atten	ML	m	T AL	_	Att.	AU.
4	20X	8.6	218	3.3	84	23.6	599	0.2	- 5	12.0	305	12.2	310	69	31
8	2000	9.6	244	4.8	122	28.825	727	1.0	25	14.4	366	13.8	351	134	61

Size	Model	odel III		16:					0				W		Weight	
of Mary	A course	1.00	me.	R/	(00)	4.	185	- 6	100	A	rod	in.	. cut	\$o	板	
2位河**	20	7.1	180	2.9	74	22.3	586	0.0	0	10.0	254	11.0	279	52	24	
2%	20	7.1	180	2.9	74	18.7	475	0.0	0	10.0	254	11.0	279	38	17	
3	20	7.4	188	2.9	74	18.7	475	0,0	0	10.3	262	11.0	279	40	18	
4	20	7.9	201	2.9	74	18,7	475	0.2	5	10.3	262	11.0	279	42	19	
6	20	10.1	257	4,5	114	25	726	1.0	25	14.6	370	13.8	351	90	41	
8	20	10.4	264	5.4	137	30.7	780	1.8	46	15.8	401	13.8	351	141	- 64	

"2" size utilizes a 2 %" essentity with 2 16" growe to 2" female NPT adapter and couplings. Adapter and couplings ship unsesentited.



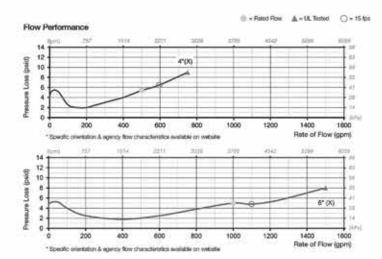


Deringer[™] 20X

Low Head Loss Double Check Valve Assembly

Sizes: 4" & 6"





Materials

Valve Housing:

Valve Cover: 304 Stainless Steel SOV Disks: EPDM/304SS SOV Shafts: 304 Stainless Steel SOV Bearings: Teflon® fluoropolymer/Bronze Non-wetted Bolts: Grade 8 Zinc Plated Check Disks: Silicone (NSF) 18-8 Stainless Steel Wetted Fasteners: Check Springs: 17-7 Stainless Steel 17-7/18-8 Stainless Steel Check Pins:

304 Stainless Steel

Check Seats: Noryl® Polymer (NSF)
O-rings: Buna-N (NSF)

Pressure - Temperature

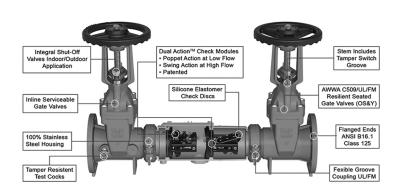
Temperature Range: 33°F - 140°F Working Pressure: 10 - 175psi

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

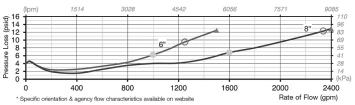
Teffort[®] is a registered trademark of The Chernours Company. Noryl[®] is a registered trademark of SABIC Global Technologies B.V.

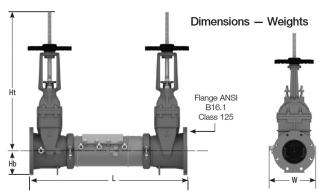
Deringer[™] **20G**Double Check Valve Assembly

Sizes: 21/2" - 8"



Flow Performance = Rated Flow = UL Tested O = 15 fps 2 1/2 100 200 300 400 500 700 800 Rate of Flow (gpm)





Size	Model	Ht		Н	b	L		Ht+Hb			W	Weight	
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kb
21/2	20G	19.0	483	3.6	92	31.9	810	22.6	574	11.0	279	122	55
3	20G	19.5	495	3.8	97	31.9	810	23.3	592	11.0	279	126	57
4	20G	22.5	572	4.5	114	33.9	861	27.0	686	11.0	279	160	73
6	20G	30.9	784	5.5	140	39.9	1013	36.4	293	12.0	304	330	150
8	20G	30.4	1001	6.8	173	44.8	1138	46.2	1173	14.6	371	452	205

Size	Model	Ht		Hb		L		Ht+Hb		W		Weigh	nt
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
4	20GX	22.5	572	4.5	114	36.9	937	27.0	686	12.0	304	160	73
- 6	20GX	30.9	785	5.5	140	42.8	1087	36.4	925	14.1	358	338	153

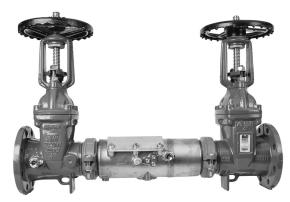


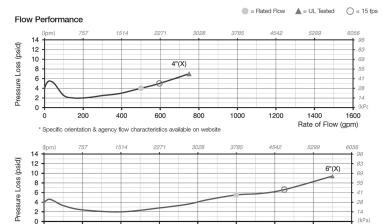


Deringer[™] 20**GX**

Low Head Loss Double Check Valve Assembly

Sizes: 4" & 6"





Rate of Flow (gpm)

* Specific orientation & agency flow characteristics available on website

Materials

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

SOV Bearings: Teflon® fluoropolymer/Bronze

Non-wetted Bolts: Grade 8 Zinc Plated Silicone (NSF) Check Disks: 18-8 Stainless Steel Wetted Fasteners: Check Springs: 17-7 Stainless Steel 17-7/18-8 Stainless Steel Check Pins: Check Seats: Noryl® Polymer (NSF)

Buna-N (NSF) O-rings:

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.

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