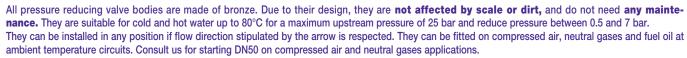
DESBORDES PRESSURE REDUCING VALVES



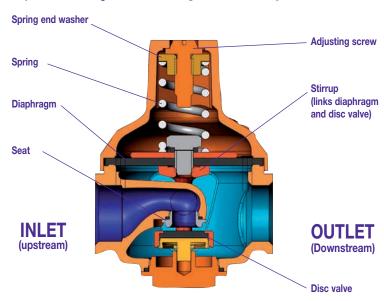
PRESSURE REDUCING VALVES



The ranges of figures 7, 8, 9, 10 and 11 are in accordance with the european standard EN1567.

Serie 11 fulfils higher specification controlled by We label.

All pressure reducing valve bodies are guaranteed for 5 years.





The outlet pressure acts on the bottom face of the diaphragm, compressing the spring when it exceeds the pre-set value and thus closing the valve.

As long as no water is drawn off the downstream side (no flow condition), the outlet pressure is thus kept at the pre-set value.

When water is drawn off on the downstream side, the outlet pressure decreases and the spring pushes against the diaphragm, opening the valve. Under prolonged flow conditions, a self-damping effect occurs in the valve opening instead of a serie of pulsating opening and closing movements.

The DESBORDES pressure reducing valve is also a pressure regulating valve.

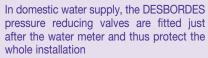
INSTALLATION











If there is a frost risk, they should be drained.

They can be fitted in any position (horizontal, upside down, fluid ascending or reversed and inclined) but the direction of flow indicated by the engraved arrow on the valve body, must be respected.



SETTING THE PRESSURE REDUCING VALVE

To increase downstream pressure :





To decrease downstream pressure :





The setting of the Desbordes pressure reducing valve must be operated under no flow condition. Downstream isolating valve must be shut. The static pressure will be adjusted.

To increase downstream pressure: thighten adjusting screw (clockwise).

To decrease downstream pressure:

- Slacken the adjusting screw (anticlockwise).
- Release the pressure by slightly opening a tap on the downstream side. Close the tap.
- Tight the adjustement screw again until requested pressure is reached.

A slight pressure drop on the downstream side is normal: it corresponds to the head loss of the valve





FOR WATER DISTRIBUTION DOMESTIC AND INDIVIDUAL

MAXIMUM UPSTREAM PRESSURE 25 bar 080°C

10 : Pressure gauge connection at the bottom of the casing 10 BIS : With 1/4" plugs on both sides to allow pressure gauge connection

Possibility of assembly of compensating spring (except for 4" size) to obtain settings at 0.5 bar

Setting: from 1 to 7 bar Delivered unset

CASING: bronze APPROVALS: ACS 10 - 10BIS : WRAS VE

MAXIMUM UPSTREAM PRESSURE 16 bar $\,\theta\,$ 80°C

Flange drilling PN16 Standard EN1092.

With 1/4" plugs on both sides to allow pressure gauge connection

APPROVAL: ACS 10TER: WRAS

SEA WATER APPLICATIONS VERY AGRESSIVE WATER

MAXIMUM UPSTREAM PRESSURE 25 bar θ 80°C

All internal components in Bronze

With 1/4" plugs on both sides to allow pressure gauge connection - Setting : from 1 to 7 bar

APPROVAL: ACS

Manufactured on order only

10





10BISBC



male/male

15 **149B7000** 20 **149B7001** 25 **149B7002**

	alo, ioiliai	•	TODIOTIC	
DN	Ref.		Ref.	
10	149B7003		149B7019	
15	149B7004		149B7020	
20	149B7005		149B7021	
25	149B7006		149B7022	
32	149B7007		149B7023	
40	149B7008		149B7024	
50	149B7009		149B7025	
60	149B7010		149B7026	
65	149B7011		149B7027	
80	149B7012		149B7028	
100	149B7225		-	



With flanges

DN	Ref.	
	149B7032	
40	149B7033	
50	149B7034	
60	149B7035	
65	149B7036	
80	149B7037	
100	149B7226	

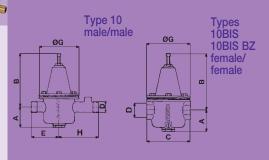
10TERRC Ref. 149B7038 149B7039 149B7040 149B7041 149B7042 149B7043

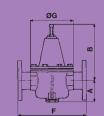
10 BIS BZ



Tollialo, Tollialo							
Ref.	DN						
149B7013	25						
149B7014	32						
149B7015	40						
149B7016	50						
149B7017	65						
149B7018	80						

TECHNICAL INFORMATION



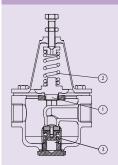


Type 10TER with flanges

D	N	D	Α	В	С	Е	F	G	Н	Kg			
mm	66	mm	mm	mm	mm	mm	mm	mm	mm	10	10BIS	10TER	10BISB
10	3/8	12/17	48	120	92	65	-	92	95	1,3	1,25	-	-
15	1/2	15/21	48	120	92	65	-	92	95	1,3	1,25	-	-
20	3/4	20/27	55	130	108	78	-	108	102	1,90	1,75	-	-
25	1	26/34	60	160	123	88	-	123	116	2,6	2,70	-	2,70
32	11/4	33/42	77	180	155	-	240	155	-	-	4,80	8,50	4,80
40	11/2	40/49	84	205	172	-	260	172	-	-	6,50	10,9	6,50
50	2	50/60	105	235	198	-	288	198	-	-	9,80	14,3	9,80
60	21/4	60/70	105	235	198	-	288	198	-	-	9,80	15,4	-
65	21/2	66/76	118	270	215	-	305	215	-	-	13,5	21,3	13,5
80	3	80/90	143	300	234	-	330	234	-	-	17,9	27,9	17,9
100	4	102/114	120	350	250	-	385	260	-	-	33,6	50,0	-

SPARE PARTS

for pressure reducers Ref. 10, 10 BIS and 10 TER



New approvals oblige us to modify the diaphragm and their fixing.

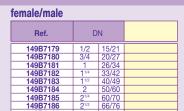
* The complete stirrup includes:
the stirrup, the stirrup plug, the diaphragm, the
seal and the counter seat, fully assembled.
DN100 · membrane (ref. 1/19E023362)

DN	mm	"	1. Complete	mplete stirrup* 2. Setting spring		3. Compensating spring				
- Dit			ref.		ref.		ref.			
10	12/17	3/8	149B7045		149B7285		149F025550			
15	15/21	1/2	149B7045		149B7285		149F025550			
20	20/27	3/4	149B7046		149B7286		149B7354			
25	26/34	1	149B7047		149B7287		149F025552			
32	33/42	11/4	149B7048		149B7288		149B7356			
40	40/49	11/2	149B7049		149B7289		149F025554			
50	50/60	2	149B7050		149B7290		149F025555			
60	60/70	21/4	149B7051		149B7290		149F025555			
65	66/76	21/2	149B7052		149F025528		149F025556			
80	80/90	3	149B7053		149B7293		149F025557			
100	102/114	4		consult us						

PRESSURE GAUGE NIPPLE

Female/male with 1/4" plug

Casing in bronze



487

PRESSURE GAUGES



FULL RANGE OF PRESSURE GAUGES WITH CENTERED NEDDLE AND GLYCERINE FILLED

See page 69





REGULATION

REGULATION









FLATS AND HOUSES INDIVIDUAL **WATER SUPPLY**

Downstream setting: 1 to 5.5 bar, possibility of assembly of compensating spring to obtain settings

With 1/4" plugs on both sides to allow pressure gauge connection

Pre-set at 3 bar

CASING: bronze

SEAT: stainless steel DN 15 and 20

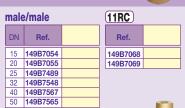
11: male/male

11 BIS: female/female 11 EP: union-nut/male

APPROVALS:





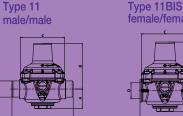




mi	ale/Temai	11BI2 KC	
ON	Ref.		Ref.
5*	149B7056		149B7063
0*	149B7057		149B7064
25	149B7314		
32	149B7549		
10	149B7558		
50	149B7561		

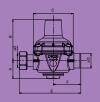


TECHNICAL INFORMATION



female/female

DN	D		Α	В	С	E	E	Ref. 11	Ref. 11bis
DIN	mm	"	mm	mm	mm	Ref. 11 mm	Ref. 11bis mm	Hel. II	Ref. Tibis
15	15/21	1/2	31	60	59	85	66	0,70	0,70
20	20/27	3/4	32	75	73	100	76,5	0,90	0,90
25	26/34	1	40	102	94	122	98	2,00	1,90
32	33/42	11/4	51	179	104	132	126	3,90	3,90
40	40/49	11/2	46	185	104	132	132	5,00	4,20
50	50/60	2	54	194	104	146	146	5,30	5,20



Type 11EP

DN	D		Α	В	Ε	F	С	kg	
DIN	mm	"	mm	mm	mm	mm	mm		
20	20/27	3/4	31	75	112	50	73	0,88	

Type 11DO

male/male



FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MAXIMUM UPSTREAM PRESSURE 25 bar θ 80°C

Settings: from 1 bar to 5.5 bar

Delivered pre-set at 3 bar

Equipped with 2 plugs 1/4" on each side to allow the mounting of a pressure gauge and 2 fittings removables

CASING: bronze

COVER

DN15 to 25, composite material

DN32 to 50, bronze

SEAT: stainless steel

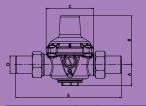
APPROVAL: ACS



male/male

DN	Ref.	
15	149B7217	
20	149B7218	
25	149B7228	
32	149B7550	
40	149B7559	
50	149B7562	

TECHNICAL INFORMATION



DN	D		Α	В	С	Е	kg
DIN	mm	33	mm	mm	mm	mm	ĸy
15	15/21	1/2	31	60	59	140	0,90
	20/27	3/4	32	75	73	160	1,30
20 25 32 40 50	26/34	1	40	102	94	180	2,50
32	33/42	11/4	51	179	104	200	4,60
40	40/49	11/2	46 54	185	104	220	5,00
50	50/60	2	54	194	104	250	5,00 5,50

VERY LOW PRESSURE, AGRICULTURE, IRRIGATION, LABORATORY

Settings: from 0.1 bar to 0.6 bar

With 1/4" plugs on both sides to allow pressure gauge connection

Table of flow available on request

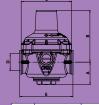
CASING: bronze SEAT: stainless steel APPROVAL: ACS

11BIS RCBP

female/female

	aro, romaro	
DN	Ref.	
20	149B7065	

TECHNICAL INFORMATION



Type 11BIS RCBP female/female

											
DN	D		Α	В	С	Е	kg				
DIN	mm	33	mm	mm	mm	mm	Ŭ				
20	20/27	3/4	32	75	73	76.5	0.92				





REGULATION





MULTI 7



FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MAXIMUM UPSTREAM PRESSURE 16 bar θ 80°C

1/4" pressure gauge connection and drain at the bottom of the casing

Downstream setting: 1 to 5.5 bar (pre-set at 3 bar)

CASING: Bronze

Delivered with 3 nuts allowing 16 different connecting possibilities in 1/2" and 3/4"



multi connections

Ref.	DN	
149B7540	20	

APPROVAL: ACS

TECHNICAL INFORMATION Type MULTI 7 multi connections

DN	D		Α	В	С	G	
DIA	mm	"	mm	mm	mm	mm	
20	20/27	3/4	33	61	70	57	

JUNIOR

FLATS AND HOUSES INDIVIDUAL WATER SUPPLY

MAXIMUM UPSTREAM PRESSURE 16 bar θ 80°C

1/4" pressure gauge connection and drain at the bottom of the casing

Downstream setting: 1 to 5.5 bar

Possibility to set-up pre-set at 3 bar downstream

CASING: bronze APPROVAL: ACS

7BIS: female/female

7EP: union-nut/male 7SP: male/union-nut





female/female

Ref.	DN	
149B7209	15	
149B7210	20	
149B7552	25	
149B7553	32	
149B7554	40	
149B7555	50	







female/male

Ref.	DN	
149B7211	15	
149B7212	20	







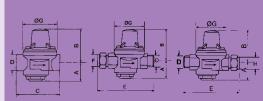
male/female

Ref.	DN	
149B7248	20	

TECHNICAL INFORMATION



Type 7SP male/female



D	N	Α	В	C	Е	F	G	Н	Kg	Kg	Kg
mm	21	mm	mm	mm	mm	27	mm	17	7BIS	7EP	7SP
15/21	1/2	30	56	64,5	92	3/4	50	-	0,5	0,5	-
20/27	3/4	33,5	61	70	95	3/4	57	3/4	0,6	0,8	0,8
26/34	1	30	68	81	-	-	70	-	0,95	-	-
33/42	11/4	34,5	91	97	-	-	81	-	1,55	-	-
40/49	11/2	36,5	106	110	-	-	92	-	2,05	-	-
50/60	2	45,5	106	135	-	-	120	-	3,70	-	-
	mm 15/21 20/27 26/34 33/42 40/49	15/21 1/2 20/27 3/4 26/34 1 33/42 1 ^{1/4} 40/49 1 ^{1/2}	mm " mm 15/21 1/2 30 20/27 3/4 33,5 26/34 1 30 33/42 1 ^{1/4} 34,5 40/49 1 ^{1/2} 36,5	mm " mm mm 15/21 1/2 30 56 20/27 3/4 33,5 61 26/34 1 30 68 33/42 1 ^{1/4} 34,5 91 40/49 1 ^{1/2} 36,5 106	mm " mm mm mm 15/21 1/2 30 56 64,5 20/27 3/4 33,5 61 70 26/34 1 30 68 81 33/42 1 ^{1/4} 34,5 91 97 40/49 1 ^{1/2} 36,5 106 110	mm " mm mm mm mm 15/21 1/2 30 56 64,5 92 20/27 3/4 33,5 61 70 95 26/34 1 30 68 81 - 33/42 1 ^{1/4} 34,5 91 97 - 40/49 1 ^{1/2} 36,5 106 110 -	mm " mm mm mm mm " 15/21 1/2 30 56 64,5 92 3/4 20/27 3/4 33,5 61 70 95 3/4 26/34 1 30 68 81 - - 33/42 11/4 34,5 91 97 - - 40/49 11/2 36,5 106 110 - -	mm " mm mm mm mm mm mm mm 15/21 1/2 30 56 64,5 92 3/4 50 20/27 3/4 33,5 61 70 95 3/4 57 26/34 1 30 68 81 - - 70 33/42 1 ^{1/4} 34,5 91 97 - - 81 40/49 1 ^{1/2} 36,5 106 110 - - 92	mm " mm mm mm mm " " 15/21 1/2 30 56 64,5 92 3/4 50 - 20/27 3/4 33,5 61 70 95 3/4 57 3/4 26/34 1 30 68 81 - - 70 - 33/42 1 ^{1/4} 34,5 91 97 - - 81 - 40/49 1 ^{1/2} 36,5 106 110 - - 92 -	mm " mm mm mm mm " mm " 78 15/21 1/2 30 56 64,5 92 3/4 50 - 0,5 20/27 3/4 33,5 61 70 95 3/4 57 3/4 0,6 26/34 1 30 68 81 - - 70 - 0,95 33/42 1 ^{1/4} 34,5 91 97 - - 81 - 1,55 40/49 1 ^{1/2} 36,5 106 110 - - 92 - 2,05	mm " mm mm mm " mm " 7EP 15/21 1/2 30 56 64,5 92 3/4 50 - 0,5 0,5 20/27 3/4 33,5 61 70 95 3/4 57 3/4 0,6 0,8 26/34 1 30 68 81 - - 70 - 0,95 - 33/42 1 ^{1/4} 34,5 91 97 - - 81 - 1,55 - 40/49 1 ^{1/2} 36,5 106 110 - - 92 - 2,05 -

SECURO

PROTECTION OF INDIVIDUAL DEVICE. WATER HEATER

MAXIMUM UPSTREAM PRESSURE 16 bar θ 80°C

1/4" pressure gauge connection and drain at the bottom of the casing

Downstream setting: 1 to 5.5 bar

Possibility to set-up pre-set at 3 bar downstream

CASING: chrome plated bronze

Upstream connection: male, downstream: with union nut

APPROVAL: ACS



5 SP

male/female

Ref.	DN	
149B7312	20	

TECHNICAL INFORMATION



DN

20

	D		Α	В	С	Е	ka								
	mm	33	mm	mm	mm	mm	kg								
	20/27	3/4	29	58	82	50	0,4								
1	4.50					A-50									

REDUNEUF

WATER SUPPLY OF HOUSE BLOCKS. **COLLECTIVE HOUSING**

Non-adjustable set at 3 bar

With 1/4" plugs on both sides to allow pressure gauge connection

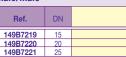
CASING: bronze

Seat in stainless steel

APPROVALS:



male/male









Ref.	DN	
149B7222	15	
149B7223	20	
149B7224	25	

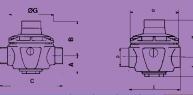
TECHNICAL INFORMATION



Type 9BIS female/female

Type 5 SP

male/female



DN)	Α	В	Е	С	G	kg	kg		
DIN	mm	"	mm	mm	mm	mm	mm	9	9 BIS		
15	15/21	1/2	31	53	66	85	59	0,55	0,56		
20	20/27	3/4	31	59	76,5	100	73	0,78	0,84		
25	26/34	1	43	66	98	122	94	1,45	1,54		
	N 7 4	A 10	90								

REGULATION