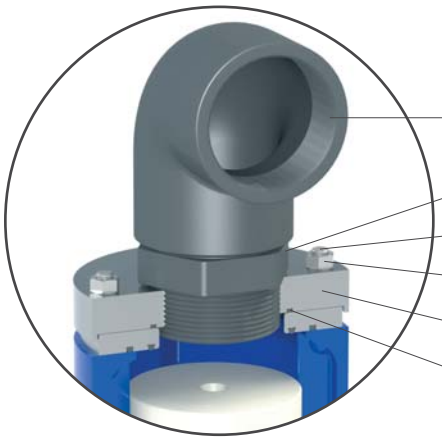
Combination air valve - Mod. Lynx 3F
Version for submerged applications - SUB series

Version for submerged applications, **SUB series** available for all CSA Lynx models except for EO version, with threaded elbow for air conveyance. The design sprang from the necessity of having an air valve performing also in case of flood, without the risk of contaminated water entering the pipeline. Another benefit of SUB is the possibility of conveying spurts coming from the rapid closure of the air valve.



DN 50 - 200

Threaded elbow in PVC (PP for DN 50-80)

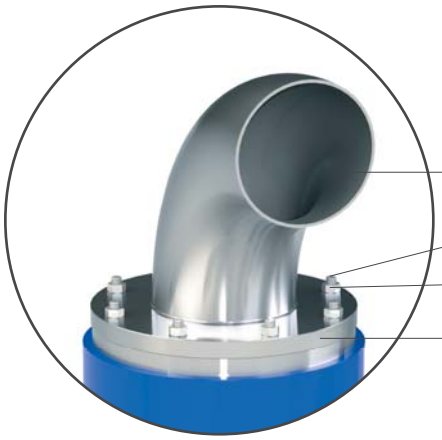
Fitting in PVC (PP for DN 50-80)

Studs in stainless steel

Bolts in stainless steel

SUB flat in PP or stainless steel

O-ring in EPDM, NBR, Viton or silicone



DN 250 - 400

Elbow in stainless steel

Studs in stainless steel

Bolts in stainless steel

SUB flat in stainless steel

Technical data

Working conditions

Pressure ratings: PN 16: 0.09 - 16 bar
PN 35: 0.15 - 35 bar
PN 40: 0.15 - 40 bar.
Temperature max. 60°C.
Coating FBE - RAL 5005.

Standard

Designed in compliance with: EN-1074/4
AS 4956
AS 4020
AWWA
C-512.

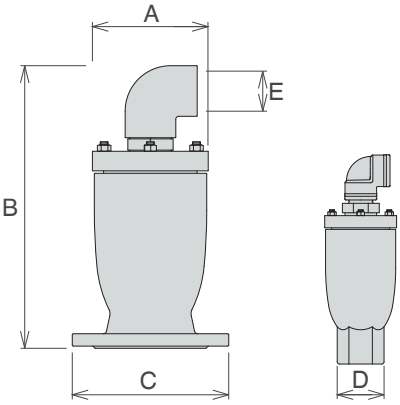
Connections

Threaded: BSP - F
NPT on request.
Flanges: AS 4087 PN 16
AS 4087 PN 35
ANSI on request.

Weights and dimensions

CONNECTION mm	A mm	B mm	C mm		E inch	Weight Kg
Flanged 50	105	298	165	-	1"	6,8
Flanged 80	128	395	210	205	2"	10,8
Flanged 100	158	420	235	220	2" 1/2	13,8
Flanged 150	192	474	300	285	3"	23,0
Flanged 200	272	648	375	340	4"	55,0
Flanged 250	359	828	450	-	6"	108,5
Flanged 300	414	1047	485	-	8"	140,0
Flanged 350	492	1270	580	-	10"	270,5
Flanged 400	578	1480	660	-	12"	332,5

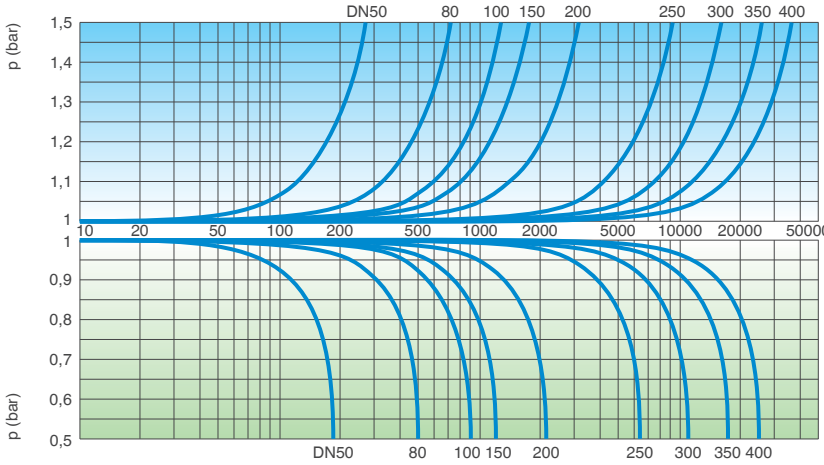
All values are approximate, consult CSA service for more details.

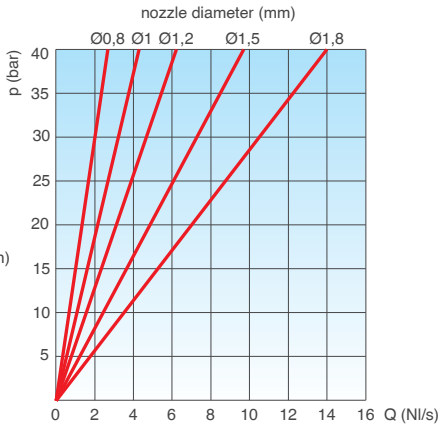


Technical data

Lynx SUB - Air flow performance charts

AIR DISCHARGE DURING PIPE FILLING



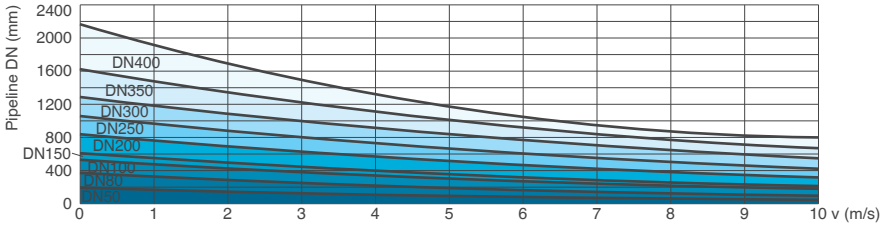


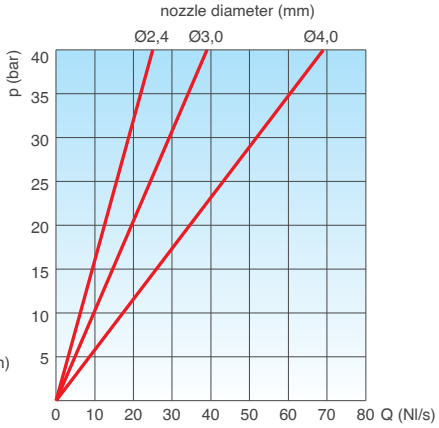
AIR RELEASE DURING WORKING CONDITIONS

AIR ENTRANCE DURING PIPE DRAINING

Lynx AS SUB - Air valve choice chart

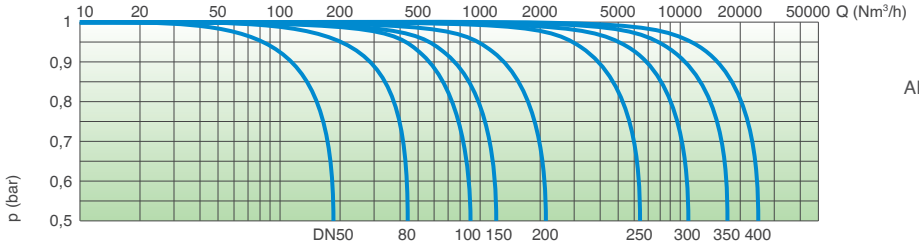
Air valve size as a function of pipeline internal diameter and fluid flow velocity expressed in m/s.





AIR RELEASE DURING WORKING CONDITIONS

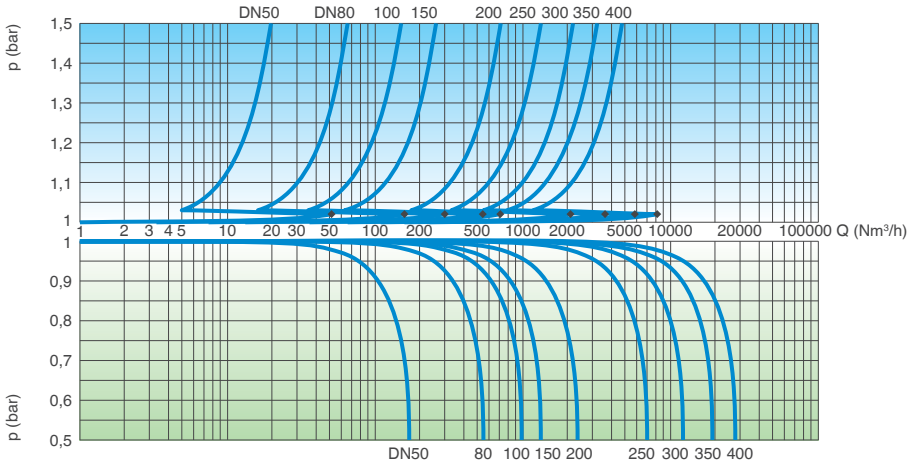
Lynx AS SUB - Air flow performance charts



AIR ENTRANCE DURING PIPE DRAINING

Lynx RFP SUB - Air flow performance charts

AIR DISCHARGE DURING PIPE FILLING



AIR ENTRANCE DURING PIPE DRAINING

The air flow charts were created in Kg/s from laboratory tests and numerical analysis, then converted using a safety factor.