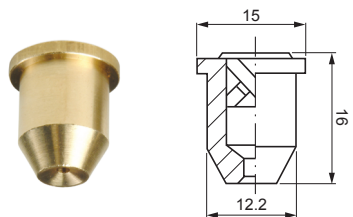


Above is outer shape of BX 1149 - BX 1372



Above is outer shape of BX 1508 - BX 1743

NOZZLE TIPS

BX full cone tips produce a uniform full cone shaped spray with a round impact area. Thanks to their design they can be easily disassembled and cleaned in case of clogging. These nozzles have an X-vane safely secured inside their body up to 3/8" thread size.

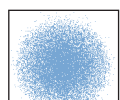
Typical applications

Washing: steel cleaning, parts cleaning, pre-treatment for coating process

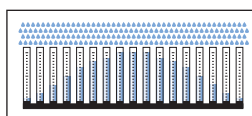
Cooling: continuous casting cooling, product cooling, tank cooling

Dust control: dust removal in mining and coal plants

Other applications: spray of chemicals, leak test



Spray section



Convex distribution

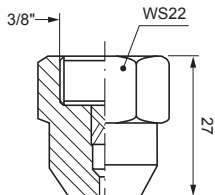


SAFETY FLANGE

In continuous casting cooling and other specific applications, nozzles are often positioned to spray upwards and must operate at very high temperatures. This may cause both thermal expansion and shrinkage of the nozzle vane due to temperature changes. The X-type vanes are designed to endure such temperature variations and to avoid the risk of escaping from the nozzle body in case of pump shut downs in vacuum conditions. All PNR full cone nozzles with X-vane (and thread size smaller than 3/8") have a protection flange to secure their vanes in place.



BJ



ASSEMBLY ACCESSORIES

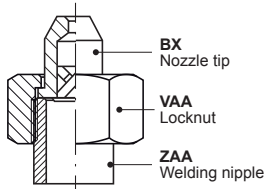
In most steelworks applications, BX series nozzles are provided with a welding nipple and locknut for the assembly of related accessories. Please see on page 44 for detailed information.



ZAA 1738 xx



VAA 0380 xx

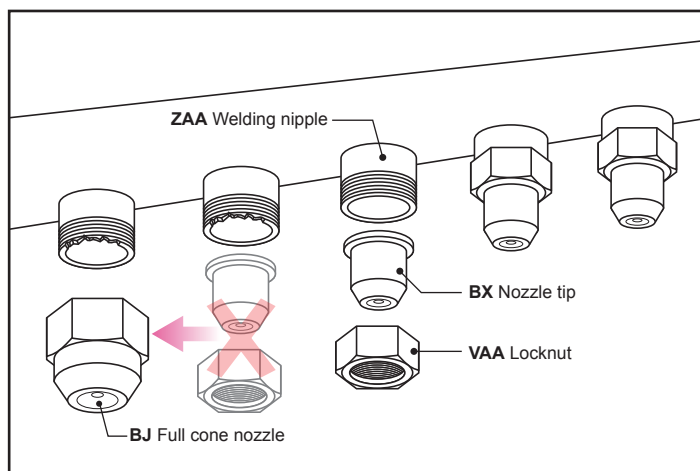


	Code	D mm	Capacity at different pressure values (l/min) (bar)					Spray angle at pressure (°) (bar)		
			1.0	2.0	3.0	5.0	10	1.5	3.0	5.0
60°	BXQ 1149 xx	1.3	0.86	1.22	1.49	1.92	2.72	50°	50°	45°
	BXQ 1223 xx	1.7	1.29	1.82	2.23	2.88	4.07	65°	65°	49°
	BXQ 1262 xx	1.7	1.51	2.14	2.62	3.38	4.78	50°	50°	46°
	BXQ 1372 xx	2.1	2.15	3.04	3.72	4.80	6.79	65°	65°	59°
	BXQ 1508 xx	2.4	2.93	4.15	5.08	6.56	9.27	50°	50°	46°
	BXQ 1626 xx	2.9	3.61	5.11	6.26	8.08	11.4	60°	60°	55°
	BXQ 1743 xx	2.9	4.29	6.07	7.43	9.59	13.6	67°	67°	61°

SISTER PRODUCTS / THREAD SIZE

As for the BX series full cone nozzles, sister products with a 3/8" female thread are also available. In the steel industry spraying nozzles fixed on the water pipes can be easily damaged during the manufacturing process. PNR can offer the ideal solution to this problem, the BJ series nozzles designed according to customers' requirements. If welded tips are out of use, you can use BJ nozzles instead of BX. They have the same technical features and jet length.

Simply change the product code as follows, e.g. **BXQ 1372 T1** → **BJQ 1372 T1**



HOW TO MAKE UP THE NOZZLE CODE

EX.: BXQ 1149 B1

BX **Q** **1149** **xx**

NOZZLE TYPE

CAPACITY

SPRAY ANGLE

Q - 60°

MATERIAL

• **B1** - AISI 303 Stainless steel

• **T1** - Brass

○ **B31** - AISI 316L Stainless steel (optional)