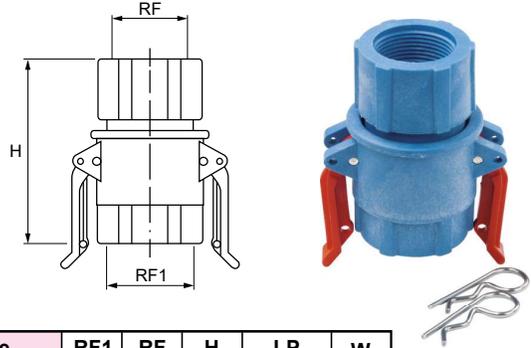


QUICK COUPLING JOINTS

ZSA quick coupling joints are a very popular solution for industrial facilities requiring ease of operation.

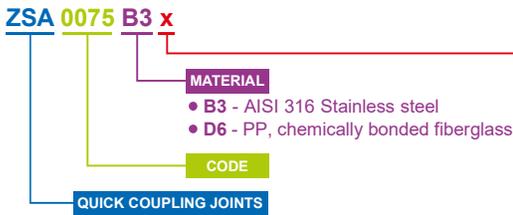
- **Thread size** 3/4", 1", 1 1/4", 1 1/2"
- **Thread specification** BSP, NPT
- **Typical applications** Cleaning equipment used in pre-treatment for coating process
Addition and release of liquids in chemical tankers
- **Materials**
 - Body **D6** PP, chemically bonded fiberglass
 - B3** AISI 316 Stainless steel
 - Lever **B31** AISI 316L Stainless steel, cast
 - B35** AISI 316 Stainless steel, sintered
 - D8** PVDF, Polyvinylidene fluoride
 - O-ring **E0** EPDM
 - E7** Viton
 - E8** NBR



Code	RF1 inch	RF inch	H mm	LP bar	W kg
ZSA 0075 B3x	3/4"	3/4"	85	15	*
ZSA 0100 B3x	1"	1"	73	15	
ZSA 0100 D6x			73	7	
ZSA 0125 B3x	1 1/4"	1 1/4"	110	15	
ZSA 0125 D6x				7	
ZSA 0150 D6x	1 1/2"	1 1/4"	110	6	
ZSA 0151 B3x	1 1/2"	1 1/2"	110	15	
ZSA 0151 D6x				6	

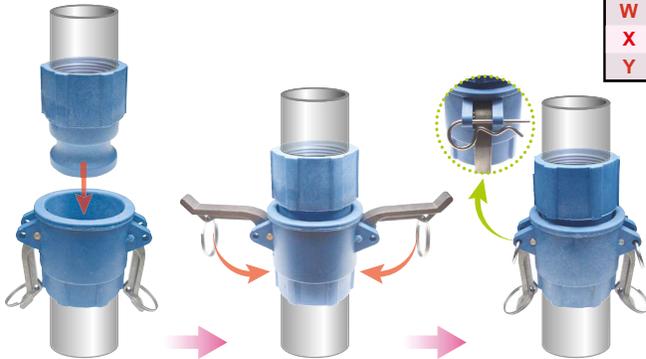
* Weight values for different materials are given on request.

HOW TO MAKE UP THE PRODUCT CODE EX.: ZSA 0075 B3B



X	Orientation	Lever material	O-ring	Rings
B	Fixed	AISI 316L, sint	EPDM	AISI 316
C	Fixed	PVDF	EPDM	AISI 316
D	Fixed	PVDF	VITON	AISI 316
F	Fixed	PVDF	EPDM	none
G	Fixed	PVDF	VITON	none
H	Fixed	AISI 316L, sint	VITON	AISI 316
S	Free	AISI 316L, sint	EPDM	AISI 316
R	Free	AISI 316L, microf	EPDM	AISI 316
Q	Free	AISI 316, mech. lav.	NBR	AISI 316
T	Free	PVDF	EPDM	AISI 316
U	Free	PVDF	VITON	AISI 316
V	Free	PVDF	EPDM	none
W	Free	PVDF	VITON	none
X	Free	AISI 316, mech. lav.	VITON	none
Y	Free	AISI 316L, sint	VITON	AISI 316

QUICK COUPLING JOINTS - INSTALLMENT

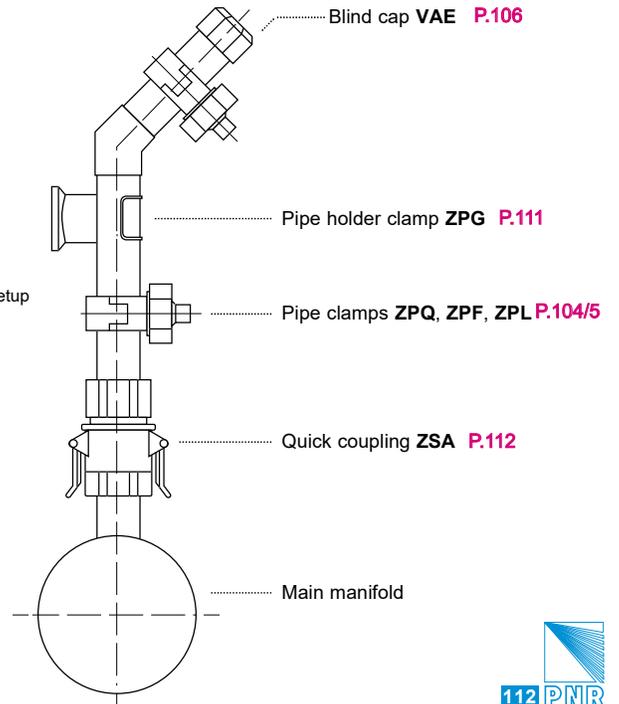


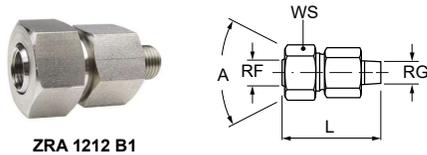
A. Join two parts of quick coupling together
B. Put levers down and fasten
C. Fix bolt and complete setup

QUICK FITTING RISERS AND HEADER MANIFOLDS

Our range of products for surface pre-treatment plants is the most complete on the market and has been developed in collaboration with the most important system manufacturers on a worldwide basis. PNR has designed most of the assembly accessories commonly adopted today in pre-treatment plants.

Right figure shows the installment steps. Quick couplings and pipe holder clamps can be quickly assembled and disassembled in seconds to minimize maintenance and shut-off time.





ZRA 1212 B1



STANDARD SWIVEL JOINTS

ZRA/ZRB/ZRC are standard swivel joints for manufacturing plants requiring product diversification. The fitting and adjustment of the joints can be done easily by tightening the hexagonal screw cap.

- **Typical applications** Cleaning equipment used in pre-treatment for coating process.
Continuous casting cooling.
- **Inlet thread size** 1/8", 1/4", 3/8", 1/2", 3/4"
- **Outlet thread size** 1/8", 1/4", 3/8", 1/2", 3/4"
- **Max working pressure** LP 21 bar
- **Materials**
 - B1** AISI 303 Stainless steel
 - B31** AISI 316L Stainless steel
 - T1** Brass

Code	RG poll	RF poll	L mm	A deg	CH mm	W g
ZRA 1212 xx YZ	1/8"	1/8"	38	50°	22	57
ZRA 2525 xx YZ	1/4"	1/4"	59	50°	22	75
ZRA 3838 xx YZ	3/8"	3/8"	72	50°	27	155
ZRA 5050 xx YZ	1/2"	1/2"	82	50°	27	186
ZRA 7575 xx YZ	3/4"	3/4"	92	50°	41	468

Code	RF poll	RF poll	L mm	A deg	CH mm	W g
ZRB 1212 xx YZ	1/8"	1/8"	29	50°	22	57
ZRB 2525 xx YZ	1/4"	1/4"	49	50°	22	75
ZRB 3838 xx YZ	3/8"	3/8"	52	50°	27	155
ZRB 5050 xx YZ	1/2"	1/2"	72	50°	27	186
ZRB 7575 xx YZ	3/4"	3/4"	85	50°	32	468

Code	RF poll	L mm	A deg	CH mm	W g
ZRC 1212 xx YZ	1/8"	32	50°	22	57
ZRC 2626 xx YZ	1/4"	67	50°	27	147
ZRC 7575 xx YZ	3/4"	92	50°	32	468

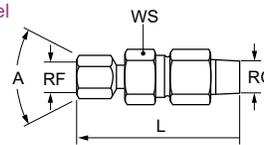
HOW TO MAKE UP THE PRODUCT CODE

ZRx 12 12 xx Y Z

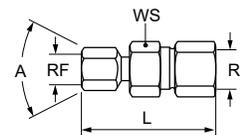
- THREAD**
 - B - BSP (female), BSPT (male)
 - N - NPT
- VARIANT**
 - S - Standard (three parts)
 - R - Reduced (two parts)
- MATERIAL**
 - B1 - AISI 303 Stainless steel
 - B31 - AISI 316L Stainless steel
 - T1 - Brass
- INLET THREAD SIZE**
 - 12 - 1/8"
 - 25 - 1/4"
 - 38 - 3/8"
 - 50 - 1/2"
 - 75 - 3/4"
- OUTLET THREAD SIZE**
 - 12 - 1/8"
 - 25 - 1/4"
 - 38 - 3/8"
 - 50 - 1/2"
 - 75 - 3/4"

Type	Inlet	Outlet
ZRA	Male	Female
ZRB	Female	Female
ZRC	Welded	Female

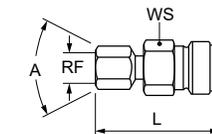
ZRA



ZRB



ZRC



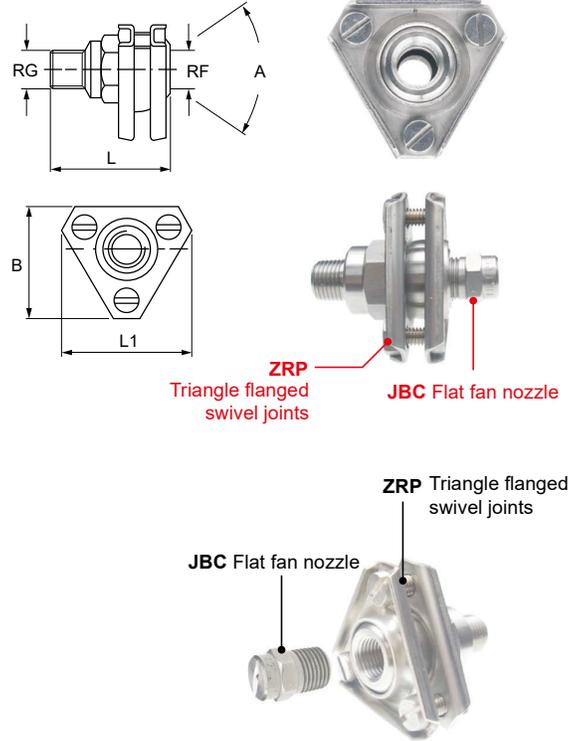
TRIANGLE FLANGED SWIVEL JOINTS

ZRP triangular flanged swivel joints have a robust metallic structure, are easy to fit and adjust and are widely used in manufacturing plants requiring product diversification.

- **Typical applications** Cleaning equipment used in pre-treatment for coating process.
Continuous casting cooling.
- **Inlet thread size** 1/8", 1/4", 3/8"
- **Outlet thread size** 1/8", 1/4", 3/8"
- **Max working pressure** LP 15 bar

Code	RG inch	RF inch	L mm	B mm	L1 mm	A deg	W g
ZRP 1212 xx	1/8"	1/8"	30	40	35	50°	65
ZRP 2512 xx	1/4"	1/8"	32				92
ZRP 2525 xx	1/4"	1/4"	40	50	45	60°	140
ZRP 2538 xx	1/4"	3/8"	40				150
ZRP 3825 xx	3/8"	1/4"	40				150
ZRP 3838 xx	3/8"	3/8"	40				150

HOW TO MAKE UP THE PRODUCT CODE EX.: ZRP 1212 B1



SWIVEL JOINTS

(LARGE CAPACITY SWIVEL JOINTS) **ZRQ**

LARGE CAPACITY SWIVEL JOINTS

ZRQ series swivel joints are suitable for operating environments requiring large capacities and product diversification. Once set, they can be easily fitted and adjusted.

- **Typical applications** Cleaning equipment used in pre-treatment for coating process.
Continuous casting cooling.
- **Inlet / Outlet thread size** 1", 1 1/4", 1 1/2", 2", 2 1/2"
- **Max working pressure** LP 9 bar
- **Materials** B1 AISI 303 Stainless steel
B31 AISI 316L Stainless steel
T1 Brass

Code	RG inch	RG1 inch	RF inch	L mm	D mm	A deg	W kg
ZRQ 8080 xx	1"	-	1"	89	92	40°	1.8
ZRQ 8282 xx	1 1/4"	-	1 1/4"	130			2.1
ZRQ 8482 xx	1 1/2"	-	1 1/4"	133			2.4
ZRR 8282 xx	1 1/4"	1 1/4"	-	130	92	40°	2.2
ZRR 8284 xx	1 1/2"	1 1/4"	-	130			2.2
ZRR 8484 xx	1 1/2"	1 1/2"	-	130			2.4
ZRR 8686 xx	2"	2 1/2"	-	203	158	40°	8.0
ZRR 8888 xx	2 1/2"	2 1/2"	-	229			8.8

HOW TO MAKE UP THE PRODUCT CODE EX.: ZRQ 8080 B1

