

## Angles with NPT threads

up to 420 bar

Type zinc-plated steel	Thread	PN*
WA 14 NPT	NPT 1/4"	350 bar
WA 38 NPT	NPT 3/8"	250 bar
WA 12 NPT	NPT 1/2"	225 bar
WA 34 NPT	NPT 3/4"	200 bar
WA 10 NPT	NPT 1"	160 bar

\* the safety factor reached in tests with hydraulic oil was four-times, please ask in individual cases

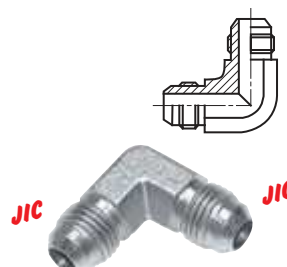


## Angles with JIC threads

up to 450 bar

Type zinc-plated steel	Type V4A (stainless steel)	Thread	PN*
WA 7/16 JIC	WA 7/16 JIC ES	UNF 7/16"-20	450 bar
WA 1/2 JIC	WA 1/2 JIC ES	UNF 1/2"-20	450 bar
WA 9/16 JIC	WA 9/16 JIC ES	UNF 9/16"-18	350 bar
WA 3/4 JIC	WA 3/4 JIC ES	UNF 3/4"-16	350 bar
WA 7/8 JIC	WA 7/8 JIC ES	UNF 7/8"-14	350 bar
WA 1 1/16 JIC	WA 1 1/16 JIC ES	UN 1 1/16"-12	350 bar
WA 1 3/16 JIC	---	UN 1 3/16"-12	170 bar
WA 1 5/16 JIC	WA 1 5/16 JIC ES	UN 1 5/16"-12	290 bar
WA 1 5/8 JIC	WA 1 5/8 JIC ES	UN 1 5/8"-12	240 bar
---	WA 1 7/8 JIC ES	UN 1 7/8"-12	240 bar

\* the safety factor reached in tests with hydraulic oil was four-times, please ask in individual cases



## Screw-in elbows 45° with female and male threads

up to 25 bar

Type 16 bar brass	Type 25 bar mall. cast iron galv.	Type 16 bar AISI 316	Thread male	Thread female
---	---	WE 1445 ES	R 1/4"	Rp 1/4"
WE 3845 MS	WE 3845 ST	WE 3845 ES	R 3/8"	Rp 3/8"
WE 1245 MS	WE 1245 ST	WE 1245 ES	R 1/2"	Rp 1/2"
WE 3445 MS	WE 3445 ST	WE 3445 ES	R 3/4"	Rp 3/4"
WE 1045 MS	WE 1045 ST	WE 1045 ES	R 1"	Rp 1"
WE 11445 MS	WE 11445 ST	WE 11445 ES	R 1 1/4"	Rp 1 1/4"
WE 11245 MS	WE 11245 ST	WE 11245 ES	R 1 1/2"	Rp 1 1/2"
WE 2045 MS	WE 2045 ST	WE 2045 ES	R 2"	Rp 2"



## Elbows 45° with female and male threads

PN 25

Type 25 bar mall. cast iron galv.	Thread male	Thread female	Type 25 bar mall. cast iron galv.	Thread male	Thread female
BO 1445 iA ST	R 1/4"	Rp 1/4"	BO 11245 iA ST	R 1 1/2"	Rp 1 1/2"
BO 3845 iA ST	R 3/8"	Rp 3/8"	BO 2045 iA ST	R 2"	Rp 2"
BO 1245 iA ST	R 1/2"	Rp 1/2"	BO 21245 iA ST	R 2 1/2"	Rp 2 1/2"
BO 3445 iA ST	R 3/4"	Rp 3/4"	BO 3045 iA ST	R 3"	Rp 3"
BO 1045 iA ST	R 1"	Rp 1"	BO 4045 iA ST	R 4"	Rp 4"
BO 11445 iA ST	R 1 1/4"	Rp 1 1/4"			

type 121/A4-45°

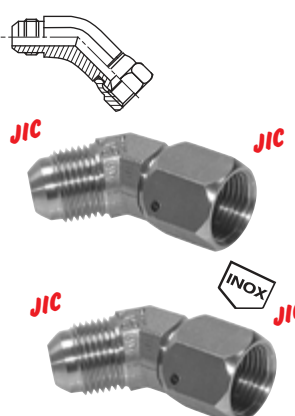


## Screw-in elbows 45° with JIC threads

up to 310 bar

Type zinc-plated steel	Type V4A (stainless steel)	Thread	PN*
WE 7/1645 JIC	WE 7/1645 JIC ES	UNF 7/16"-20	310 bar
WE 1/245 JIC	WE 1/245 JIC ES	UNF 1/2"-20	275 bar
WE 9/1645 JIC	WE 9/1645 JIC ES	UNF 9/16"-18	275 bar
WE 3/445 JIC	WE 3/445 JIC ES	UNF 3/4"-16	275 bar
WE 7/845 JIC	WE 7/845 JIC ES	UNF 7/8"-14	210 bar
WE 1 1/1645 JIC	WE 1 1/1645 JIC ES	UN 1 1/16"-12	210 bar
WE 1 5/1645 JIC	WE 1 5/1645 JIC ES	UN 1 5/16"-12	170 bar
WE 1 5/845 JIC	WE 1 5/845 JIC ES	UN 1 5/8"-12	140 bar
---	WE 1 7/845 JIC ES	UN 1 7/8"-12	100 bar

\* the safety factor reached in tests with hydraulic oil was four-times, please ask in individual cases



All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C.