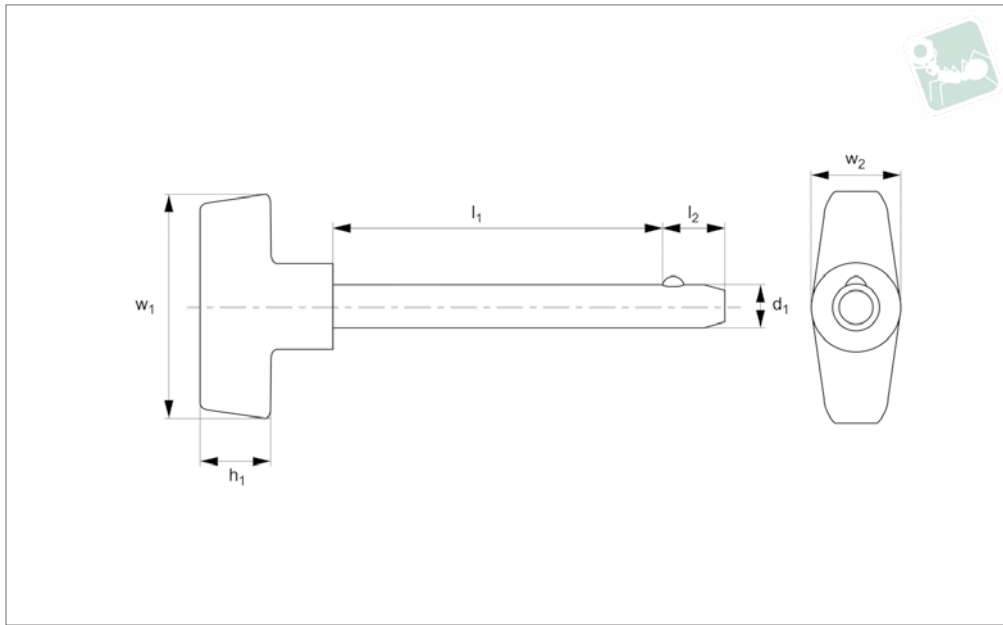


Detent Pin - T Handle

steel

Pull Pins



PP1230

PULL PINS

Material

Shaft: Carbon steel (C1144), zinc plated.
Ball & spring: Stainless steel AISI 316.

Technical Notes

Detent pins are very economical for use in commercial and military equipment. The solid body with direct spring loaded

ball ensures reliable operation.

Can be used for locking telescopic tubing, securing bracket assemblies, as anchor clevis fittings, hinge pins and as replacement for cotter pins where frequent removal is necessary.

Hole sizes - commercial drills provide clear-

ance for our standard pins.

Inch dimensions in brackets ().

Tips

Also available in stainless steel see part no. P.

Order No.	d ₁ +0.00 -0.08	l ₁ grip +1.50 -0.00	l ₂	w ₁	h	w ₂	Pull out strength kg	Single shear strength kN min.
PP1230.018-050-C	4,76 (3/16")	12,7 (0,5")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-060-C	4,76 (3/16")	15,24 (0,6")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-070-C	4,76 (3/16")	17,78 (0,7")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-080-C	4,76 (3/16")	20,32 (0,8")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-090-C	4,76 (3/16")	22,86 (0,9")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-100-C	4,76 (3/16")	25,4 (1")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-110-C	4,76 (3/16")	27,94 (1,1")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-120-C	4,76 (3/16")	30,48 (1,2")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-130-C	4,76 (3/16")	33,02 (1,3")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-140-C	4,76 (3/16")	35,56 (1,4")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-150-C	4,76 (3/16")	38,1 (1,5")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-160-C	4,76 (3/16")	40,64 (1,6")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-170-C	4,76 (3/16")	43,18 (1,7")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-180-C	4,76 (3/16")	45,72 (1,8")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-190-C	4,76 (3/16")	48,26 (1,9")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-200-C	4,76 (3/16")	50,8 (2")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-210-C	4,76 (3/16")	53,34 (2,1")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-220-C	4,76 (3/16")	55,88 (2,2")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-230-C	4,76 (3/16")	58,42 (2,3")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-240-C	4,76 (3/16")	60,96 (2,4")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-250-C	4,76 (3/16")	63,5 (2,5")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-260-C	4,76 (3/16")	66,04 (2,6")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-270-C	4,76 (3/16")	68,58 (2,7")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-280-C	4,76 (3/16")	71,12 (2,8")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-290-C	4,76 (3/16")	73,66 (2,9")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.018-300-C	4,76 (3/16")	76,2 (3")	5.08	50.8	28.7	19.05	1,9 - 2,3	10.8
PP1230.025-100-C	6,35 (1/4")	25,4 (1")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-110-C	6,35 (1/4")	27,94 (1,1")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-120-C	6,35 (1/4")	30,48 (1,2")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3



Order No.	d ₁ +0.00 -0.08	l ₁ grip +1.50 -0.00	l ₂	w ₁	h	w ₂	Pull out strength kg	Single shear strength kN min.
PP1230.025-130-C	6,35 (1/4")	33,02 (1,3")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-140-C	6,35 (1/4")	35,56 (1,4")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-150-C	6,35 (1/4")	38,1 (1,5")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-160-C	6,35 (1/4")	40,64 (1,6")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-170-C	6,35 (1/4")	43,18 (1,7")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-180-C	6,35 (1/4")	45,72 (1,8")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-190-C	6,35 (1/4")	48,26 (1,9")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-200-C	6,35 (1/4")	50,8 (2")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-210-C	6,35 (1/4")	53,34 (2,1")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-220-C	6,35 (1/4")	55,88 (2,2")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-230-C	6,35 (1/4")	58,42 (2,3")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-240-C	6,35 (1/4")	60,96 (2,4")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-250-C	6,35 (1/4")	63,5 (2,5")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-260-C	6,35 (1/4")	66,04 (2,6")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-270-C	6,35 (1/4")	68,58 (2,7")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-280-C	6,35 (1/4")	71,12 (2,8")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-290-C	6,35 (1/4")	73,66 (2,9")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-300-C	6,35 (1/4")	76,2 (3")	7.92	50.8	28.7	19.05	2,27 - 2,73	19.3
PP1230.025-050-C	7,94 (5/16")	12,7 (0,5")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.025-060-C	7,94 (5/16")	15,24 (0,6")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.025-070-C	7,94 (5/16")	17,78 (0,7")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.025-080-C	7,94 (5/16")	20,32 (0,8")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.025-090-C	7,94 (5/16")	22,86 (0,9")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-100-C	7,94 (5/16")	25,4 (1")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-110-C	7,94 (5/16")	27,94 (1,1")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-120-C	7,94 (5/16")	30,48 (1,2")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-130-C	7,94 (5/16")	33,02 (1,3")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-140-C	7,94 (5/16")	35,56 (1,4")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-150-C	7,94 (5/16")	38,1 (1,5")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-160-C	7,94 (5/16")	40,64 (1,6")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-170-C	7,94 (5/16")	43,18 (1,7")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-180-C	7,94 (5/16")	45,72 (1,8")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-190-C	7,94 (5/16")	48,26 (1,9")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-200-C	7,94 (5/16")	50,8 (2")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-210-C	7,94 (5/16")	53,34 (2,1")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-220-C	7,94 (5/16")	55,88 (2,2")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-230-C	7,94 (5/16")	58,42 (2,3")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-240-C	7,94 (5/16")	60,96 (2,4")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-250-C	7,94 (5/16")	63,5 (2,5")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-260-C	7,94 (5/16")	66,04 (2,6")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-270-C	7,94 (5/16")	68,58 (2,7")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-280-C	7,94 (5/16")	71,12 (2,8")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-290-C	7,94 (5/16")	73,66 (2,9")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-300-C	7,94 (5/16")	76,2 (3")	9.53	50.8	28.7	19.05	2,27 - 2,73	30.0
PP1230.031-050-C	9,40 (3/8")	12,7 (0,5")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.031-060-C	9,40 (3/8")	15,24 (0,6")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.031-070-C	9,40 (3/8")	17,78 (0,7")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.031-080-C	9,40 (3/8")	20,32 (0,8")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.031-090-C	9,40 (3/8")	22,86 (0,9")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-100-C	9,40 (3/8")	25,4 (1")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-110-C	9,40 (3/8")	27,94 (1,1")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-120-C	9,40 (3/8")	30,48 (1,2")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-130-C	9,40 (3/8")	33,02 (1,3")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-140-C	9,40 (3/8")	35,56 (1,4")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-150-C	9,40 (3/8")	38,1 (1,5")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-160-C	9,40 (3/8")	40,64 (1,6")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-170-C	9,40 (3/8")	43,18 (1,7")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-180-C	9,40 (3/8")	45,72 (1,8")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-190-C	9,40 (3/8")	48,26 (1,9")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-200-C	9,40 (3/8")	50,8 (2")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-210-C	9,40 (3/8")	53,34 (2,1")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-220-C	9,40 (3/8")	55,88 (2,2")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-230-C	9,40 (3/8")	58,42 (2,3")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-240-C	9,40 (3/8")	60,96 (2,4")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-250-C	9,40 (3/8")	63,5 (2,5")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-260-C	9,40 (3/8")	66,04 (2,6")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3
PP1230.037-270-C	9,40 (3/8")	68,58 (2,7")	12.7	50.8	28.7	19.05	3,63 - 4,54	43.3

Detent Pin - T Handle

steel

Pull Pins

Order No.	d ₁ +0.00 -0.08	l ₁ grip +1.50 -0.00	l ₂	w ₁	h	w ₂	Pull out strength kg	Single shear strength kN min.
PP1230.037-280-C	9,40 (3/8")	71,12 (2,8")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-290-C	9,40 (3/8")	73,66 (2,9")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-300-C	9,40 (3/8")	76,2 (3")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-310-C	9,40 (3/8")	78,74 (3,1")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-320-C	9,40 (3/8")	81,28 (3,2")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-330-C	9,40 (3/8")	83,82 (3,3")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-340-C	9,40 (3/8")	86,36 (3,4")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-350-C	9,40 (3/8")	88,9 (3,5")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-360-C	9,40 (3/8")	91,44 (3,6")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-370-C	9,40 (3/8")	93,98 (3,7")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-380-C	9,40 (3/8")	96,52 (3,8")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-390-C	9,40 (3/8")	99,06 (3,9")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-400-C	9,40 (3/8")	101,6 (4")	12,7	50,8	28,7	19,05	3,63 - 4,54	43,3
PP1230.037-050-C	12,70 (1/2")	12,7 (0,5")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.037-060-C	12,7 (1/2")	15,24 (0,6")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.037-070-C	12,7 (1/2")	17,78 (0,7")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.037-080-C	12,7 (1/2")	20,32 (0,8")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.037-090-C	12,7 (1/2")	22,86 (0,9")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-100-C	12,7 (1/2")	25,4 (1")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-110-C	12,7 (1/2")	27,94 (1,1")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-120-C	12,7 (1/2")	30,48 (1,2")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-130-C	12,7 (1/2")	33,02 (1,3")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-140-C	12,7 (1/2")	35,56 (1,4")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-150-C	12,7 (1/2")	38,1 (1,5")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-160-C	12,7 (1/2")	40,64 (1,6")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-170-C	12,7 (1/2")	43,18 (1,7")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-180-C	12,7 (1/2")	45,72 (1,8")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-190-C	12,7 (1/2")	48,26 (1,9")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-200-C	12,7 (1/2")	50,8 (2")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-210-C	12,7 (1/2")	53,34 (2,1")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-220-C	12,7 (1/2")	55,88 (2,2")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-230-C	12,7 (1/2")	58,42 (2,3")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-240-C	12,7 (1/2")	60,96 (2,4")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-250-C	12,7 (1/2")	63,5 (2,5")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-260-C	12,7 (1/2")	66,04 (2,6")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-270-C	12,7 (1/2")	68,58 (2,7")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-280-C	12,7 (1/2")	71,12 (2,8")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-290-C	12,7 (1/2")	73,66 (2,9")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-300-C	12,7 (1/2")	76,2 (3")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-310-C	12,7 (1/2")	78,74 (3,1")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-320-C	12,7 (1/2")	81,28 (3,2")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-330-C	12,7 (1/2")	83,82 (3,3")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-340-C	12,7 (1/2")	86,36 (3,4")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-350-C	12,7 (1/2")	88,9 (3,5")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-360-C	12,7 (1/2")	91,44 (3,6")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-370-C	12,7 (1/2")	93,98 (3,7")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-380-C	12,7 (1/2")	96,52 (3,8")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-390-C	12,7 (1/2")	99,06 (3,9")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-400-C	12,7 (1/2")	101,6 (4")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-410-C	12,7 (1/2")	104,14 (4,1")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-420-C	12,7 (1/2")	106,68 (4,2")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-430-C	12,7 (1/2")	109,22 (4,3")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-440-C	12,7 (1/2")	111,76 (4,4")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-450-C	12,7 (1/2")	114,3 (4,5")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-460-C	12,7 (1/2")	116,84 (4,6")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-470-C	12,7 (1/2")	119,38 (4,7")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-480-C	12,7 (1/2")	121,92 (4,8")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-490-C	12,7 (1/2")	124,46 (4,9")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0
PP1230.050-500-C	12,7 (1/2")	127 (5")	15,88	88,9	28,7	23,88	4,54 - 5,45	77,0