SPEN BEARINGS

Bearing and Oilseal Specialists Power Transmission Engineers

The Engineer's Tool Kit

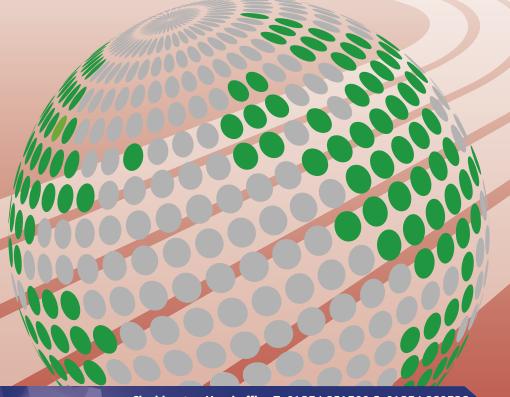
FLUID POWER











Cleckheaton Head office T: 01274 851700 **F:** 01274 869736

Halifax T: 01422 365145 F: 01422 349411

Keighley T: 01535 606421 **F:** 01535 606422

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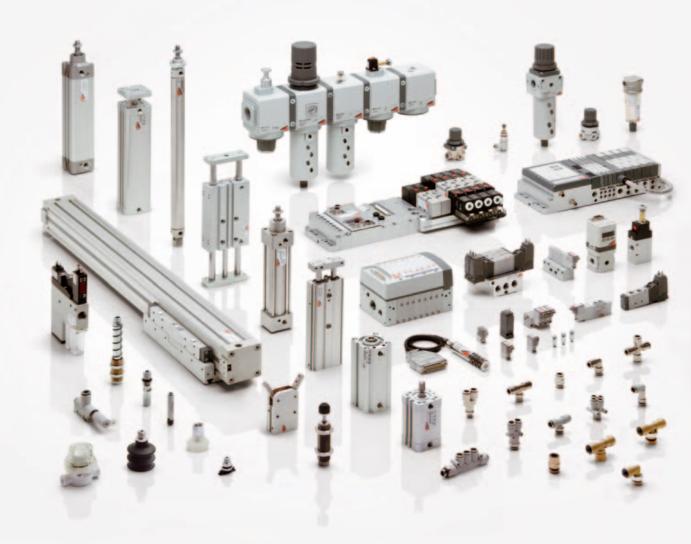
E: sales@spen-bearings.co.uk **W:** www.spen-bearings.co.uk

Cleckheaton Head Office: 129 Westgate, Cleckheaton, West Yorkshire, BD19 5EJ

Halifax: 18-20 Hall Street, Halifax, West Yorkshire, HX1 5BD

Keighley: Station Works, Parkwood Street, Keighley, West Yorkshire, BD21 4NQ **Leeds:** Unit4, Enterprise Court, Pit Lane, Micklefield, West Yorkshire, LS25 4BU





Welcome to the world of Camozzi

CAMOZZI IS ONE OF THE WORLD'S LEADING SUPPLIERS OF ADVANCED PNEUMATIC COMPONENTS AND SYSTEMS WITH REPRESENTATION IN OVER 70 COUNTRIES SPANNING ALL FOUR CONTINENTS. IN SUCH A COMPETITIVE MARKET WE RECOGNIZE THE NEED TO BE DIFFERENT, SO WE HAVE STOOD OUT FROM THE CROWD FOR IN EXCESS OF 40 YEARS BY OFFERING ONLY THE HIGHEST QUALITY PRODUCTS WHICH ARE SUPPORTED BY A FULL RANGE OF SERVICES.

www.camozzi.co.uk





Series 16, 24 and 25 Mini-Cylinders

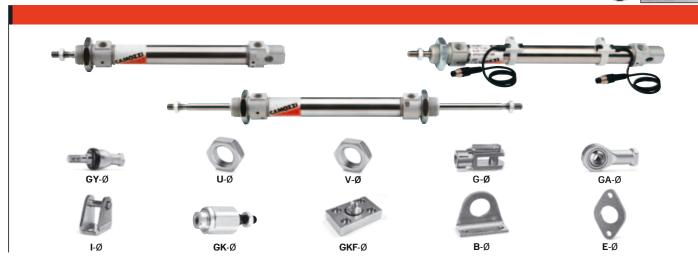


Single and double-acting (Cetop RP52-P DIN/ISO 6432)

Series 16: Ø 8 - 10 - 12 Series 24: Ø 16 - 20 - 25 - magnetic Series 25: Ø 16 - 20 - 25 - magnetic cushioned







CODING EXAMPLE

24 N 2 A 16 A 100

24 **SERIES**

16 = non-magnetic **24** = magnetic

25 = magnetic, adjustable cushioning

N VERSION N = Standard

2

OPERATION

OPERATION

1 = single-acting, front spring, no cushion

2 = double-acting

3 = double-acting, through-rod

7 = single-acting, through-rod

MATERIALS Α

rod = rolled stainless steel AISI 303 tube = stainless steel AISI 304

end-blocks = anodized AL

16

08 = Ø 8 mm 10 = Ø 10 mm

12 = ø 12 mm **16** = ø 16 mm

20 = ø 20 mm 25 = ø 25 mm

Α » CONSTRUCTION

A =screw with ring + lock nut for rod RL = cylinder with rod lock \emptyset 20 - \emptyset 25

100

Series 16: Ø8-10 = 10-250 mm / Ø12 = 10-300 mm Series 24-25: Ø16 = 10-600 mm / Ø20-25 = 10-1000 mm

= standard V = rod seals in FKM

STANDARD STROKES FOR MINICYLINDERS SERIES 16-24-25

- Double-acting
- ***** Single-acting

standard	d strokes														
series	Ø	10	25	40	50	80	100	125	160	200	250	300	320	400	500
16	8	E ×	■×	■×	E ×										
16	10	E ×	=×	■×	E ×										
16	12	■×	■×	■×	■×										
24	16	E ×	=×	■×	E ×										
24	20	■×	■×	■×	■×										
24	25	■×	■×	■×	■×										
25	16														
25	20														
25	25														

Series 60 Cylinders

Single and double-acting, magnetic, cushioned Standard and low friction versions ø 32 - 40 - 50 - 63 - 80 - 100 - 125 (ISO 15552)









CODING EXAMPLE

60 M2 L 050 A 0200

60	>>	SERIES					
М	>>	VERSION M = magnetic					
2	>>	OPERATION 1 = single-acting, front spring 2 = double-acting*, front and rear cushioned 3 = double-acting*, no cushion 4 = double-acting*, rear cushioned 5 = double-acting*, front cushioned 6 = double-acting*, through-rod, front and rear cushioned 7 = single-acting, through-rod * all double-acting cylinders are also available in the low friction version					
L	>>>	MATERIALS L = rolled stainless steel rod AISI 420B - anodised aluminium round tube - NBR seals - nuts and tie-rods zinc-plated steel - rod seals polyurethane T = stainless steel AISI 420B tie-rods - stainless steel AISI 303 tie-rod nuts C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts					
050	>>	BORE 032 = Ø 32 mm 040 = Ø 40 mm 050 = Ø 50 mm 063 = Ø 63 mm 080 = Ø 80 mm 100 = Ø 100 mm 125 = Ø 125 mm					
A	>>	CONSTRUCTION A = standard with lock nut for rod RL = cylinder with rod lock F = cylinder with centre trunnion					
0200	>>	STROKE 10-2500 mm					
	>>	= standard W = all FKM seals -130C° V = FKM rod seal L = low friction version without rod seal (rear supply only) ** R = NBR rod seal () = extended piston rod mm ** The possibility to order the cylinder without piston rod seal, further reduces the friction force, (this configuration is possible in applications where the cylinder ispressurized in the rear chamber only)					

STANDARD STROKES FOR CYLINDERS SERIES 60

- Single-acting (standard versions)
- ***** Double-acting (standard and low friction versions)

Other strokes up to 2500 mm are available on request.

standard	strokes												
Ø	25	50	75	100	125	150	160	200	250	300	320	400	500
32	■×	■×	■ ×	×	×	×	×	×	×	×	×	×	×
40	E ×	E ×	■ ×	×	×	×	×	×	×	×	×	×	×
50	■×	E ×	■×	×	×	×	×	×	×	×	×	×	×
63	■×	E ×	■ ×	×	×	×	×	×	×	×	×	×	×
80	■×	E ×	■×	×	×	×	×	×	×	×	×	×	×
100		E ×	■×	×	×	×	×	×	×	×	×	×	×
125		×	×	×	×	×	×	×	×	×	×	×	×



Series 61 Cylinders - Aluminium Profile



Single and double-acting, magnetic, cushioned Standard and low friction versions ø 32 - 40 - 50 - 63 - 80 - 100 - 125 (ISO 15552)









CODING EXAMPLE

61 M 2 P 050 A 0200

61	>>	SERIES								
М	>>									
2	»>	2 = double-acting*, front and rear cushioned 3 = double-acting*, no cushion 4 = double-acting*, rear cushioned 5 = double-acting*, front cushioned 6 = double-acting*, through-rod, front and rea 7 = single-acting, through-rod	1 = single-acting, front spring (ø 32 ± ø 100) 2 = double-acting*, front and rear cushioned 3 = double-acting*, no cushion 4 = double-acting*, rear cushioned 5 = double-acting*, front cushioned 6 = double-acting*, tront cushioned 6 = double-acting*, through-rod, front and rear cushioned							
Р	>>	MATERIALS P = rolled stainless steel rod, AISI 420B anodised profile aluminium tube NBR seals - rod seals polyurethane, nuts and tie-rods zinc-plated steel R = stainless steel AISI 420B tie-rods - stainless steel AISI 303 tie-rod nuts C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts								
050	>>	BORE 032 = Ø 32 mm 040 = Ø 40 mm 063 = Ø 63 mm	080 = Ø 80 mm							
Α	>>	CONSTRUCTION A = standard with rod nut	RL = cylinder with rod lock							
0200	>>	STROKE 10-2500 mm								
	 = standard V = FKM rod seal E = low friction version without rod seal (rear supply only) ** E = NBR rod seal E = NBR rod									

STANDARD STROKES FOR CYLINDERS SERIES 61

- Single-acting (standard versions)
- ***** Double-acting (standard and low friction versions)

Other strokes up to 2500 mm are available on request

standard st	rokes													
Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	E ×	■×	■ ×	×	×	×	×	×	×	×	×	×	×	×
40	X	■×	■ ×	×	×	×	×	×	×	×	×	×	×	×
50	E ×	■×	■ ×	×	×	×	×	×	×	×	×	×	×	×
63	X	■×	■ ×	×	×	×	×	×	×	×	×	×	×	×
80	E ×	■×	■ ×	×	×	×	×	×	×	×	×	×	×	×
100		E ×	■×	×	×	×	×	×	×	×	×	×	×	×
125		×	×	×	×	×	×	×	×	×	×	×	×	×



Cylinder Problem? The Solution Is Here. . .



The Fastest Cylinder Breakdown Service Replacements made in as little as one hour!



Standard and Non-Standard Strokes Includes Many Cylinder Types Totally Flexible Delivery and Collection Options Available

Actuated Valve Assemblies



SAME DAY DESPATCH

Try the service today!



Pneumatic and Electric Actuators

Single and Double Acting

Comprehensive Range of Valves (Ex-Stock)

Fully Assembled and Tested

Series 4 Valves and Solenoid Valves











Full Range Available:



Series MX Filter-Regulators

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX 2 - 3/8 - FR 0 0 0 4

MX	>>	SERIES	
2	>>	SIZE 2 = 3/8 - 1/2 - 3/4	3 = 3/4 - 1
3/4	>>	CONNECTIONS 3/8 = 3/8 1/2 = 1/2	3/4 = 3/4 1 = 1
FR	>>	FILTER-REGULATOR	
0	>>	FILTERING ELEMENT WITH DES ${f 0}=25~\mu{\rm m}$ with relieving (standa $1=5~\mu{\rm m}$ with relieving $2=25~\mu{\rm m}$ without relieving (with $3=5~\mu{\rm m}$ without relieving (with 5	ord) n semiautomatic-manual drain only)
0	»	DRAINING OF CONDENSATE* 0 = manual semiautomatic drain 3 = automatic drain 5 = depressuring drain, protected 8 = no drain with connections 1/	
0	>>	OPERATING PRESSURE (1 bar = 0 = 0.5 - 10 bar (standard) 4 = 0 - 4 bar	
4	»	PRESSURE GAUGE 0 = without pressure gauge(with 2 = with built-in pressure gauge 0 - 4 bar 3 = with built-in pressure gauge 0 - 7 bar (MX2 only) 4 = with built-in pressure gauge 0.5 - 10 bar (standard)	0-6 and working pressure 0-10 and working pressure



Air Treatment Box Sets

Complete Filter-Regulator Set with Bracket and Gauge

Integrated Gauge Version						
Size	Part No					
3/8	MX2-FR-3/8-KIT-IG					
1/2	MX2-FR-1/2-KIT-IG					

External Gauge Version						
Size	Part No					
1/4	FR 1/4 KIT					
3/8	MX2-FR-3/8-KIT-EG					
1/2	MX2-FR-1/2-KIT-EG					

High Performance Reduced Installation and Maintenance Time

Compact and Light Weight

Series MX Filters

CAMOZZ

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX 2 - 3/8 - F 0 0

MX	>>	SERIES					
2	>>	SIZE 2 = 3/8 - 1/2 - 3/4 3 = 3/4 - 1					
3/8	>>	CONNECTIONS $3/8 = 3/8$ $3/4 = 3/4$ $1/2 = 1/2$ $1 = 1$					
F	>>	FILTER					
0	>>	FILTERING ELEMENT 0 = 25 \(\mu\) (standard) 1 = 5 \(\mu\)					
0	»	DRAINING OF CONDENSATE* 0 = semiautomatic-manual drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = no drain with connection 1/8					

Series MX Pressure Regulators

MX2 Connnections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Manifold Connections: 1/2 (MX2 only) Modular - Available with built-in pressure gauges or with connection for gauges



CODING EXAMPLE

MX 2 - 3/4 - R 0 0 4

MX	>>	SERIES					
2	>>	SIZE 2 = 3/8 - 1/2 - 3/4	3 = 3/4 - 1				
3/8	>>	3/8 = 3/8	1/2 = 1/2 1 = 1				
R	>>	TYPE OF REGULATOR R = pressure regulator M = Manifold pressure					
0	>>	RE (1 bar = 14.5 psi) dard) MX2)					
0	>>	DESIGN TYPE 0 = relieving (standard 1 = without relieving	1)				
4	»						

Series MX Lubricators

Connections: MX2 - 3/8, 1/2, 3/4 - MX3 - 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX 2 - 3/8 - L 00

MX	>>	SERIES	
2	>>>	SIZE 2 = 3/8 - 1/2 - 3/4	3 = 3/4 - 1
3/8	>>	CONNECTIONS 3/8 = 3/8 3/4 = 3/4	1/2 = 1/2 1 = 1
L	>>	LUBRICATOR	
00	>>>	DESIGN TYPE 00 = atomized oil	

Series N Filters and Coalescing Filters

Connections: 1/8 and 1/4 With screw-on transparent bowl



CODING EXAMPLE

N204-F00

	•	1. 00				
N	>>	SERIES				
2	>>	SIZE 1 = small bowl	2 = standard bowl			
04	>>	CONNECTION 08 = 1/8	04 = 1/4			
F	>>	FILTER				
0	>>	FILTERING ELEMENT $0 = 25 \ \mu \text{m}$ (standard $1 = 5 \ \mu \text{m}$ B = 0.01 μm				
0	>>	DRAINING OF CONDENSATE* 0 = manual - semiautomatic drain 4 = depressurisation only standard bowl (2) 5 = depressurisation, protected only standard bowl (2) 8 = no drain, connection 1/8				

Series N Lubricators

Connections: 1/8 and 1/4
With transparent bowl



CODING EXAMPLE

N 2 04 - L 0 0

N	>>	SERIES	
2	>>	SIZE 1 = small bowl	2 = standard bowl
04	>>	CONNECTIONS 08 = 1/8 04 = 1/4	
L	>>	LUBRICATOR	
00	>>	DESIGN TYPE 00 = atomized oil	

Series N Pressure Regulators

Connection: 1/8 and 1/4



CODING EXAMPLE

N 12 04 - R 0 0

N	>>	SERIES
12	>>	SIZE
04	>>	CONNECTION 08 = 1/8 04 = 1/4
R	>>	REGULATOR
0	>>	OPERATING PRESSURE 0 = 0.5 - 10 bar (standard) 1 = 0 - 4 bar 2 = 0 - 2 bar (1/4 only) 7 = 0.5 - 7 bar (1/4 only)
0	>>	DESIGN TYPE 0 = self-relieving 1 = non-relieving

Series N Filter-Regulators

Connections: 1/8 and 1/4
With transparent bowl



CODING EXAMPLE

N204 - D00 - 4

N	>>	SERIES	
2	>>	SIZE 1 = small bowl 2 = standard bowl	
04	>>	CONNECTIONS 08 = 1/8 04 = 1/4	
D	>>	FILTER-REGULATOR	
0	>>	FILTERING ELEMENT ${f 0}=25~\mu{ m m}$ standard ${f 1}=5~\mu{ m m}$	
0	»	DRAINING OF CONDENSATE* 0 = semiautomatic, self-relieving 1 = semiautomatic, non-relieving 4 = depressurisation, self-relieving only standard bowl (2) 5 = depressurisation, protected self-relieving, only standard bowl (2) 8 = Connection 1/8, self-relieving	
4	>>	OPERATING PRESSURE = 0.5 - 10 bar 2 = 0 - 2 bar (G1/4) 4 = 0 - 4 bar 7 = 0.5 - 7 bar (G1/4)	



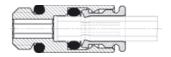
Series 6000 Super-Rapid Fittings for Plastic Tubes

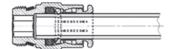


Tube external diameters: 3 (Micro only), 4, 5, 6, 8, 10, 12, 14, 16 mm Threaded connections: M3 (Micro only), M5, M7, 1/8, 1/4 3/8, 1/2, R1/8, R1/4, R3/8, R1/2

Super-rapid fittings Series 6000 are available in 35 different models. Super-rapid fittings Series 6000 Micro are available in 14 different models. Connection and disconnection of the tube can be repeated several times and can be performed without the use of tools.

The extractable internal collet allows the sealing ring (O-ring) to be easily replaced if it is damaged or in case of wear of the rubber compound.







S6510 4-1/8 S6510 10-1/4 S6510 4-1/4 S6510 10-3/8 S6510 5-1/8 S6510 10-1/2 S6510 5-1/4 S6510 12-1/4 S6510 6-1/8 S6510 12-3/8 S6510 6-1/4 S6510 12-1/2 S6510 6-3/8 S6510 14-3/8 S6510 8-1/8 S6510 14-1/2 S6510 8-1/4 S6510 16-1/2 S6510 8-3/8 S6510 16-3/4

S6510 8-1/2

Male Connector

 $^{\circ} = \text{with 2661 Assembled}$ $\star = \text{with O-Ring Assembled}$ *Y = with O-Ring Assembled



6512 3-M3° 6512 3-M5* 6512 4-M7-M* 6512 4-1/8-M*Y 6512 6-M7-M* 6512 6-1/8-M*Y 6512 8-1/8-M*Y 6512 10-1/4-M*

It can be connected also to valve islands Series Y



6512 4-M5 6512 10-1/4 6512 4-M6 6512 10-3/8 6512 4-1/8 6512 12-1/4 6512 4-1/4 6512 12-3/8 6512 5-M5 6512 6-M5 6512 6-1/8 6512 6-1/4 6512 8-1/8

6512 8-1/4

6512 8-3/8

With O-Ring Assembled



6463 4-M5 6463 4-1/8 6463 5-1/8 6463 6-1/8 6463 6-1/4 6463 8-1/8 6463 8-1/4 6463 10-1/4

Female Stud



Swivel Elbow





6522 4-1/4 6522 5-M5 6522 6-M5 6522 6-1/8 6522 6-1/4 6522 8-1/8 6522 8-1/4 6522 8-3/8 6522 10-1/4 6522 10-3/8 6522 12-1/4 6522 12-3/8

6501 4-M5

6522 4-M5

6522 4-1/8

Swivel Elbow with O-Ring Assembled



Sprint® 6525 6-1/8 6525 6-1/4 6525 8-1/8 6525 8-1/4

Extended Swivel Elbow



With 2661 assembled

Full Range Available:

Super-Rapid Compact™ Fittings in Technopolymer Series 7000



Compact™

Pipe Fittings Series 2000 / BSPT Adaptors



Sprint® S6430 4-1/8 S6430 5-1/8

S6430 5-1/4 S6430 6-1/8 S6430 6-1/4 S6430 8-1/8 S6430 8-1/4 S6430 8-3/8 S6430 10-1/4 S6430 10-3/8 S6430 10-1/2 S6430 12-1/4 S6430 12-3/8 S6430 12-1/2 S6430 14-1/2

Swivel branch tee



6432 4-M5 6432 4-1/8 6432 5-M5 6432 6-1/8 6432 6-1/4 6432 8-1/8 6432 8-1/4 6432 8-3/8 6432 10-1/4 6432 10-3/8 6432 12-1/4 6432 12-3/8

Swivel branch tee with O-Ring assembled





S6440 4-1/8 S6440 5-1/8 S6440 6-1/8 S6440 6-1/4 S6440 8-1/8 S6440 8-1/4 S6440 8-3/8 S6440 10-1/4 S6440 10-3/8 S6440 12-3/8 S6440 14-1/2

Swivel branch tee



6442 4-M5 6442 4-1/8 6442 5-M5 6442 6-1/8 6442 6-1/4 6442 8-1/8 6442 8-1/4 6442 8-3/8 6442 10-1/4 6442 10-3/8 6442 12-1/4 6442 12-3/8

Swivel branch tee with O-Ring assembled



6451 4-M5* 6451 6-M5* S6450 4-1/8 S6450 6-1/8 S6450 8-1/8 S6450 8-1/4

Swivel Y connector *non swivel Model, with 2661 assembled



6622 4-M5 6622 4-1/8 6622 6-1/8 6622 6-1/4 6622 8-1/8 6622 8-1/4 6622 10-1/4

1631 01...

1631 02...

1631 03...

Banjo with O-Ring assembled



6632 6-1/8 6632 6-1/4 6632 8-1/8 6632 8-1/4 6632 10-1/4

6632 4-1/8

Double Banjo with O-Ring assembled



Double Banjo Ring Connector Assembly with 1631, 1635



01... = Single Banjo Stem 02... = Double Banjo Stem

03... = Triple Banjo Stem



6610 4-M6° 6610 6-1/4 6610 4-1/8 6610 8-1/8 6610 5-M5 6610 8-1/4 6610 5-M6° 6610 8-3/8 6610 10- 1/4* 6610 5-1/8 6610 6-M5 6610 10- 3/8* 6610 6-M6° 6610 12-1/2*

6610 6-1/8

6610 4-M5

Models without reference can be always assembled with 1631-1635 °Assembly required with SCU, SVU, SCO...M5 *Assembly required with 1635

Sprint®

6811 4-1/8 6811 5-1/8 6811 5-1/4 6811 6-1/8 6811 6-1/4 6811 8-1/8 6811 8-1/4 6811 10-1/4 6811 10-3/8 6811 12-3/8 6811 14-1/2

6811 4-M5*

Metric Male Adaptor *with O-Ring assembled



S6110 6 1/8 S6110 6 1/4 S6110 8 1/8 S6110 8 1/4 S6110 8 3/8 S6110 10 1/4 S6110 10 3/8 S6110 10 1/2 S6110 12 1/4 S6110 12 3/8 S6110 12 1/2

45° Male Elbow

Full Range Available:

Tubing & Accessories



QRC Series 5000



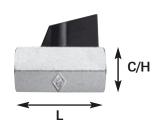
Ball Valves & Actuators



Mini Ball Valves

Suitable for most non-corrosive liquids and gases including air, water and fuels. Operating pressure 10 bar (147psi). Operating temperature -20 $^{\circ}$ C to +90 $^{\circ}$ C.

Female/Female



	A	ment	
C/H		(1111)	

Male/Female

3831 1/2

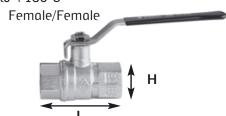
	L	C/H
3830 1/8	41	21
3830 1/4	41	21
3830 3/8	41	21
3830 1/2	46	25

C/H 3831 1/8 41 21 21 3831 1/4 41 3831 3/8 41 21

46

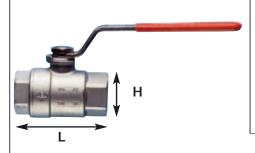
Brass Ball Valves -Gas/WRAS Approved

Suitable for most non-corrosive liquids and gases including air, water, solvents and fuels. Operating temperature -20°C to +130°C



Economy Stainless Steel Ball Valves Two-Piece Design

2-Piece stainless steel quarter turn ball valves with all wetted parts stainless steel AISI316. Other metal parts in stainless steel AISI304. Available with NPT threads. (Part No 700023)



	Thread	L	Н
70400002	1/4	53.5	30
70400003	3/8	53.5	30
70400004	1/2	60	32.5
70400005	3/4	70	40
70400006	1	79	49
70400007	1 1/4	91	62
70400008	1 1/2	103	75
70400010	2	124	95

Pneumatically Actuated 2-Way Brass Ball Valves

25

Full bore, direct mounted actuator, nickel plated brass ball valves (low torgue design). Also available in 1/4, 3/8, 2 1/2, 3, 4.

Bar





3-Way Option Also Available (L/T Port)

Dar

Thread 8P007904

0.00,00.	-, -	
8P007905	3/4	40
8P007906	1	40
8P007907	1 1/4	40
8P007908	1 1/2	40
8P007910	2	40

Single Acting

	rrireaa	Dur
8P008104	1/2	40
8P008105	3/4	40
8P008106	1	40
8P008107	1 1/4	40
8P008108	1 1/2	40
8P008110	2	40

Full Range of Accessories Available:



Namur 3/2 and 5/2 Solenoid Valves









Double Acting Actuated Ball Valve Assembly



Single Acting Actuated Ball Valve Assembly



Double Acting Actuator

ACTUATED BALL VALVES & ACCESSORIES

KELM's™ ongoing investment in technology and resource builds **Trust** and **Confidence** in the marketplace, assuring continuity in all aspects of **Engineering Distinction**.

- Double Acting & Single Acting
- ISO 5211 Mounting Pad
- Rack and Pinion Design
- Long Life
- NAMUR Interface
- Full Bore Valves
- Stainless Steel & Nickel Plated
 Valves available



Temperature Range: -20°C to +80°C



Working Pressure: 2.5 bar to 8 bar

Please refer to pages 503-507 of our main 2013/14 Fluid Power Catalogue



NYLONTUBING

Metric Flexible Nylon Tubing, Type NT (to B\$5409)



Manufactured from quality grade nylon granules. The properties of this tube make it ideal for use in pneumatic control systems. (Ideally suited for use with push-in fittings).

Other colours and lengths available on request

30 Metre Coils

	5010		OD mm	ID.		PSI
ı	NTM04	/030	4	3	Natural	300
ľ	NTM04	/025	4	2.5	Natural	400
	NTM04	/025N	4	2.5	Black	400
	NTM04	/025B	4	2.5	Blue	400
	NTM04	/025G	4	2.5	Green	400
I	NTM04	/025R	4	2.5	Red	400
-6	NTM04		4	2.5	Yellow	400
į	NTM05	/030	5	3	Natural	400
E	NTM05	/030N	5	3	Black	400
E	NTM05	/030B	5	3	Blue	400
Į	NTM05	/030G	5	3	Green	400
I	NTM05	/030R	5	3	Red	400
Į	NTM05	/030Y	5	3	Yellow	400
-	NTM05		5	3.3	Natural	300
Į	NTM06	/040	6	4	Natural	350
ı	NTM06	/040N	6	4	Black	350
Į	NTM06	/040B	6	4	Blue	350
	NTM06		6	4	Green	350
	NTM06		6	4	Red	350
-	NTM06		6	4	Yellow	350
	NTM06		6	4.5	Natural	300
-	80MTN		8	6	Natural	350
-	80MTN		8	6	Black	350
-	80MTN		8	6	Blue	350
_	80MTN		8	6	Green	350
-	80MTN		8	6	Red	350
-	80MTV		8	6	Yellow	350
I	80MTN	/055	8	5.5	Natural	350

30 Metre Coils

5010	(OD)	ID.		PSI
NTM08/055N	8	5.5	Black	350
NTM10/070	10	7	Natural	300
NTM10/070N	10	7	Black	300
NTM10/070B	10	7	Blue	300
NTM10/070G	10	7	Green	300
NTM10/070R	10	7	Red	300
NTM10/070Y	10	7	Yellow	300
NTM10/080	10	8	Natural	220
NTM10/080N	10	8	Black	220
NTM10/080B	10	8	Blue	220
NTM10/080G	10	8	Green	220
NTM10/080R	10	8	Red	220
NTM10/080Y	10	8	Yellow	220
NTM12/090	12	9	Natural	250
NTM12/090N	12	9	Black	250
NTM12/090B	12	9	Blue	250
NTM12/090G	12	9	Green	250
NTM12/090R	12	9	Red	250
NTM12/090Y	12	9	Yellow	250
NTM12/100	12	10	Natural	200
NTM12/100N	12	10	Black	200
NTM12/100R	12	10	Red	200
NTM14/110	14	11	Natural	250
NTM14/110N	14	11	Black	250
NTM15/120	15	12	Natural	200
NTM16/130	16	13	Natural	200
NTM18/140	18	14	Natural	200
NTM22/170	22	17	Natural	180

100 Metre Coils

5010	OD mm	ID.		PSI
NTM04/025-100	4	2.5	Natural	400
NTM05/030-100	5	3	Natural	400
NTM06/040-100	6	4	Natural	350
NTM06/040N-100	6	4	Black	350
NTM06/040B-100	6	4	Blue	350
NTM06/040G-100	6	4	Green	350
NTM06/040R-100	6	4	Red	350
NTM06/040Y-100	6	4	Yellow	350
NTM08/060-100	8	6	Natural	350
NTM08/060N-100	8	6	Black	350
NTM08/060B-100	8	6	Blue	350
NTM10/080-100	10	8	Natural	220
NTM10/080N-100	10	8	Black	220
NTM10/080B-100	10	8	Blue	220

500 Metre Drums

5010	OD mm	(ID)		PSI
NTM06/040-500	6	4	Natural	350
NTM06/040-500B	6	4	Blue	350
NTM08/060-500	8	6	Natural	350

For Polyurethane Tube see page 492 of our main 2013/14 Fluid Power Catalogue





ONE TOUCH & ONE TOUCH + 16 bar

PUSH-IN FITTINGS

- Convenient One-Touch fittings provide instant connections.
- Elliptical release ring facilitates pneumatic installation in confined spaces.
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube, no special tools required.
- Nickel plated brass threaded body ensures anti-corrosion and anti-contamination.

Temperature Range:

Working Pressure:

10 bar (150 psi)

0°C to +60°C*

All taper threaded fittings are pre-coated with Teflon sealant and require no additional sealing.

One Touch Construction:

Resin Body: PBT

Metal Body: Brass nickel plated

Packing: NBR

Back Ring: POM O-Ring: NBR

Collar:

Nickel plated zinc

Sleeve: POM
Locking Claw: Stainless steel

Media: Air and Vacuum

Please refer to pages 460-471 of our main 2013/14 Fluid Power Catalogue

One Touch+ Construction:

Resin Body: Technopolymer Resin

Metal Body:

Brass nickel plated

Packing: NBR
Back O-Ring: POM

O-Ring: NBR

Collar: Nickel plated zinc

Collet: Technopolymer Resin

Sieeve: POM

Collet Ring: Brass nickel plated





Temperature Range: -10°C to +60°C*



Working Pressure:
-0.8 bar to 16 bar*

Please refer to pages 472-476 of our main 2013/14 Fluid Power Catalogue

MICRO & ALL METAL

PUSH-IN FITTINGS

- · Convenient One-Touch fittings provide instant connections.
- Elliptical release ring facilitates pneumatic installation in confined spaces.
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube, no special tools required.
- Nickel plated brass ensures anti-corrosion and anti-contamination.
- All taper threaded fittings are pre-coated with Teflon sealant and require no additional sealing.

Micro Construction:

Resin Body: PBT
Metal Body:

Brass nickel plated

Packing: NBR

Back O-Ring: POM O-Ring: NBR

Collar: Nickel plated zinc

Collet: PBT Sleeve: POM

Collet Ring: Brass nickel plated







Please refer to pages 483-489 of our main 2013/14 Fluid Power Catalogue

All Metal Construction:

Resin Body: Brass nickel plated Packing: NBR Back O-Ring: POM

O-Ring: NBR Collet Ring:

Brass nickel plated

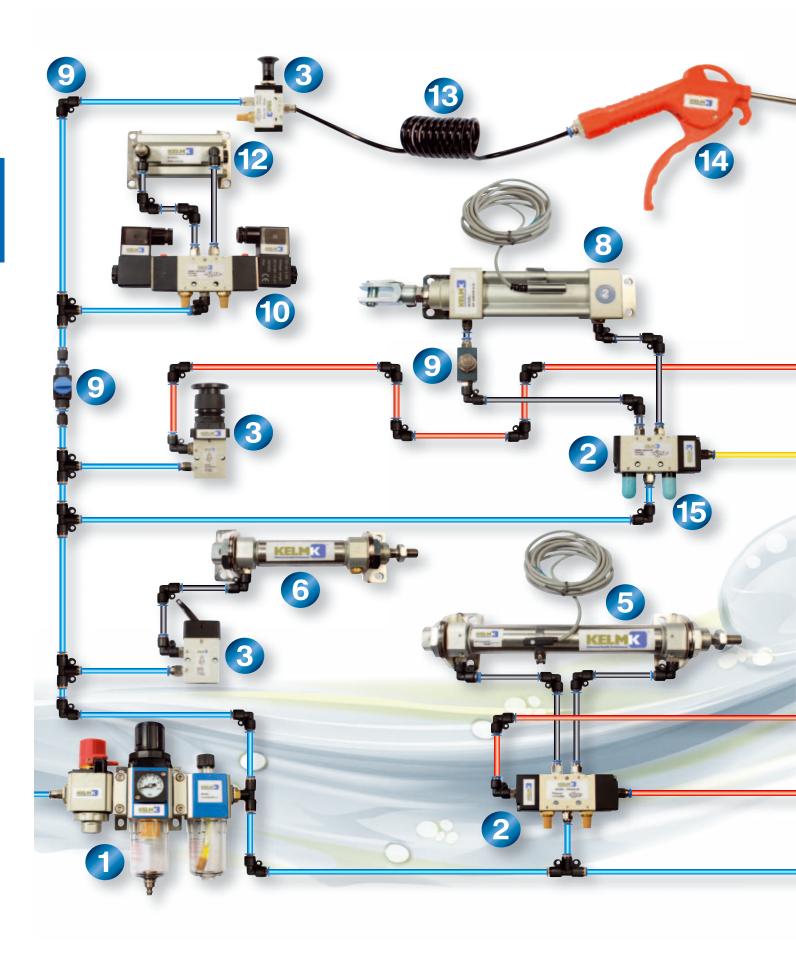
Temperature Range:
-10°C to +60°C*





Please refer to pages 477-481 of our main 2013/14 Fluid Power Catalogue

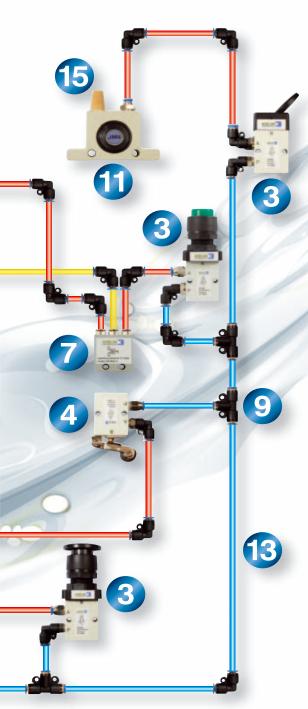
*Dependent upon tubing specification







COMPRESSED AIR SYSTEM GUIDE



	Please refer to pages of 2013/14 Fluid Power	of our main Catalogue
0	Air Preparation 1/8" up to 1" – Filters, Regulators and Lubrications	4/1/
2	Pilot Operated Valves 1/8", 1/4", 3/8" and 1/2" - 3/2, 5/2 and 5/3 Valves	N. V.
3	Manual Operated Valves M5, 1/8", 1/4", 3/8", 1/2" and 3/4" - 3/2, 4/2, 4/3, 5/2 and 5/3 Valves	1
4	Mechanical Operated Valves M5, 1/8" and 1/4" - 3/244	46 and 449
5	ISO 6432 Mini Cylinders Double Acting Magnetic in Bore Sizes 8mm to 40mm Mounting and Reed Switch to suit	
6	ISO 6432 Mini Cylinders Single Acting Magnetic in Bore Sizes 8mm to 40mm	
7	Logic and Specialist Valves Not, And, Yes, Oscillating, Impulse	456 to 458
8	ISO 15552 (Formally ISO 6431/VDMA 24562) Double Acting Magnetic Cylinders In Bore Sizes 32mm to 200mm. Mounting and Reed Switch to suit.	434 to 435
9	Plastic and Metal Push In Fittings and Flow Restrictors 4mm O.D. up to 12mm O.D.	462 to 489
10	Solenoid Operated Valves Singe Solenoid and Double Solenoid Valves - M5, 1/8", 1/4", 3/8" and 1/2" - 3/2, 5/2 and 5/3 Valves	453 to 455
1	Pneumatic Vibrators 1/4" and 3/8" - Ball and Turbine	459
12	Compact Magnetic Cylinder Double Acting Magnetic in Bore Sizes 12mm to 100mm Mounting and Reed Switch to suit	
13	Spring Coils and Tubing Nylon and Polyurethane.	492 to 498
14	Blow Guns Plastic and Metal	495
15	Silencers Plastic, Sintered Bronze and Stainless Steel	765 to 767

Pneumatic Quick Release Couplings

Series 19KA & Accessories





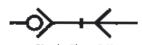




Temperature Range: -20°C to +100°C Standard Seal NBR



Maximum Static Working Pressure: PB 35 bar (500 PSI)



Interchangeability: Standard PCL Series

Material:

Steel Nickel Plated, Buna Seal (Standard Series Coupling) Application:

General Purpose Pneumatic Coupling, Original PCL

Tech Sheet **505**

Couplings



Male Thread, BSPT

1910	{}	mm	L mm
19KAAK13MPX	1/4"	19	63
19KAAK17MPX	3/8"	19	63
19KAAK21MPX	1/2"	22	68



Female Thread, BSPP

1910	{ }	mm	L mm¹
19KAIW13MPX	1/4"	19	58
19KAIW17MPX	3/8"	19	58
19KAIW21MPX	1/2"	24	60



Hose Tail

1910	To Suit Hose I.D.	mm	L mm
19KATF06MPX	6mm (1/4")	19	76
19KATF08MPX	8mm (5/16")	19	76
19KATF10MPX	10mm (3/8")	19	76
19KATF13MPX	13mm (1/2")	19	76

Plugs



Male Thread, BSPT

1910	{ }	mm	L mm
19SFAK13SXN	1/4"	14	50
19SFAK17SXN	3/8"	17	50
19SFAK21SXN	1/2"	21	57



Female Thread, BSPP

1910	{ }	mm	L mm
19SFIW13SXN	1/4"	17	46
19SFIW17SXN	3/8"	17	47
19SFIW21SXN	1/2"	19	47



Hose Tail

1910	To Suit Hose I.D.	L mm ⊓
19SFTF05SXN	5mm	60
19SFTF06SXN	6mm (1/4")	60
19SFTF08SXN	8mm (5/16")	60
19SFTF10SXN	10mm (3/8")	60
19SFTF13SXN	13mm (1/2")	60

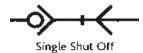
Series 25KS Safety Lock



Temperature Range: -20°C to +100°C Standard Seal NBR



Maximum Static **Working Pressure:** PB 35 bar (500 PSI)



Interchangeability:

Cejn 320 Flow Rate: 1800 L/Min Material: Brass Nickel Plated Application: General Purpose Pneumatic

Coupling Euro Standard Design



Couplings



Male Thread, BSPT

2510	{ }	mm	L mm ∣
25KAAK13MPN	1/4"	19	60
25KAAK17MPN	3/8"	19	60
25KAAK21MPN	1/2"	22	61



Quick Fit Tube Confiection				
2510	To Fit Tube Size mm	mm	L mm	
25KAKO08MPN	6 x 8	19	60	



Female Thread, BSPP

2510	{ }	mm	L mm l
25KAIW13MPN	1/4"	19	56
25KAIW17MPN	3/8"	19	55
25KAIW21MPN	1/2"	24	58



Panel Mount, Standard Hose Tail

2510	To Suit Hose I.D.	mm	L mm
25KATS06MPN	6mm (1/4")	19	76
25KATS08MPN	8mm (5/16")	19	80
25KATS10MPN	10mm (3/8")	19	87



Hose Tail

To Suit Hose I.D.	mm	L mm'
6mm (1/4")	19	74
8mm (5/16")	19	74
9mm	19	74
10mm (3/8")	19	74
13mm (1/2")	19	74
	6mm (1/4") 8mm (5/16") 9mm 10mm (3/8")	6mm (1/4") 19 8mm (5/16") 19 9mm 19 10mm (3/8") 19



Quick Fit Tube Connection with Spring Guard

2510	To Fit Tube Size mm	mm	L
25KAKK08MPN	6 x 8	19	144
25KAKK10MPN	8 x 10	19	155



ROTARY ACTUATORS

NEW
INNOVATIVE
PRODUCTS

- Simple design eliminates the need for maintenance
- Single moving vane with a fixed seal
- > Patented static tri-seal
- Pressure assisted seals
- No load full stroke operation with less than 3 psi air supply
- Dual output female drives together with dual ISO mounting pad
- Dual VDI/VDE 3845 mounting pad
- **External spri**ng return unit
- Adjustable end stops
- ➤ Thrust bearing support of the vane
- Direct NAMUR mount pad for solenoid valve
- Over 1 million cycles







Please refer to pages 662-666 of our main 2013/14 Fluid Power Catalogue



ONE TOUCH EMERGENCY FITTINGS KITS

PLASTIC PUSH-IN FITTINGS

Convenient, compact boxes containing a selection of popular KELM™ One Touch Plastic Push-in Fittings along with handy tube cutter. Available in three sizes: 6mm, 8mm & 10mm. Can be used with Nylon 6, 11, 12, & Polyurethane (Ester & Ether).

Temperature Range:
Brass: 0°C to +60°C
Acetal: 0°C to +60°C
(dependent upon tubing specification)



Maximum Working Pressure: 10 bar (150 psi) Negative Pressure: -750mm Hg (10 Torr) (dependent upon tubing specification)



Plastic Push-in

1060



 KELM-06MMBOX-P
 6

 KELM-08MMBOX-P
 8

 KELM-10MMBOX-P
 10

Please refer to page 461 of our main 2013/14 Fluid Power Catalogue

Tech Shee **1964**

ALSO AVAILABLE

Please refer to page 478

of our main 2013/14 Fluid Power Catalogue

6mm

Plastic Push-in Fittings & Tube Cutter

CONTENTS:

Tube Cutter PXC058 Qty: 1	Equal Tee 2019-8404 Qty: 10	Equal Connector 2019-8305 Qty: 10 Equal Bulkhead 2019-8503 Qty: 2
Equal Elbow 2019-8354 Qty: 8	1/8" BSPP Male Stud Elbow 2028-8247 Qty: 8	1/4" BSPP Male Stud Elbow 2028-8254 Qty: 5
1/8" BSPT	1/4" BSPT	Flow Controller
Flow Controller	Flow Controller	(Unidirectional)
2022-9852	2022-9878	2022-9746
Qty: 2	Qty: 2	Qty: 2
1/8" BSPT	1/4" BSPT	Shut-off Valve
Male Stud	Male Stud	(Tube x Tube)
2019-4965	2019-4973	HVFF06-06
Qty: 10	Qty: 10	Qty: 2
M5 BSPT	1/8" BSPP	1/4" BSPP
Male Stud	Male Stud	Male Stud
2019-4957	2028-7819	2028-7843
Qty: 5	Qty: 10	Qty: 10

8mm

Plastic Push-in Fittings & Tube Cutter

CONTENTS:

Tube Cutter PXC058 Qty: 1	Equal Tee 2019-8412 Qty: 8	Equal Equal Connector Bulkhead 2019-8313 2019-8511 Qty: 10 Qty: 2
Equal Elbow 2019-8362 Qty: 6	1/8" BSPP Male Stud Elbow 2028-8270 Qty: 6	1/4" BSPP Male Stud Elbow 2028-8288 Qty: 5
1/8" BSPT	1/4" BSPT	Flow Controller
Flow Controller	Flow Controller	(Unidirectional)
2022-9886	2022-9894	2022-9753
Qty: 2	Qty: 2	Qty: 2
1/8" BSPT	1/4" BSPT	Shut-off Valve
Male Stud	Male Stud	(Tube x Tube)
2019-4999	2019-5004	HVFF08-08
Qty: 10	Qty: 10	Qty: 2
3/8" BSPT	1/8" BSPP	1/4" BSPP
Male Stud	Male Stud	Male Stud
2019-5012	2028-7876	2028-7884
Qty: 5	Qty: 10	Qty: 10

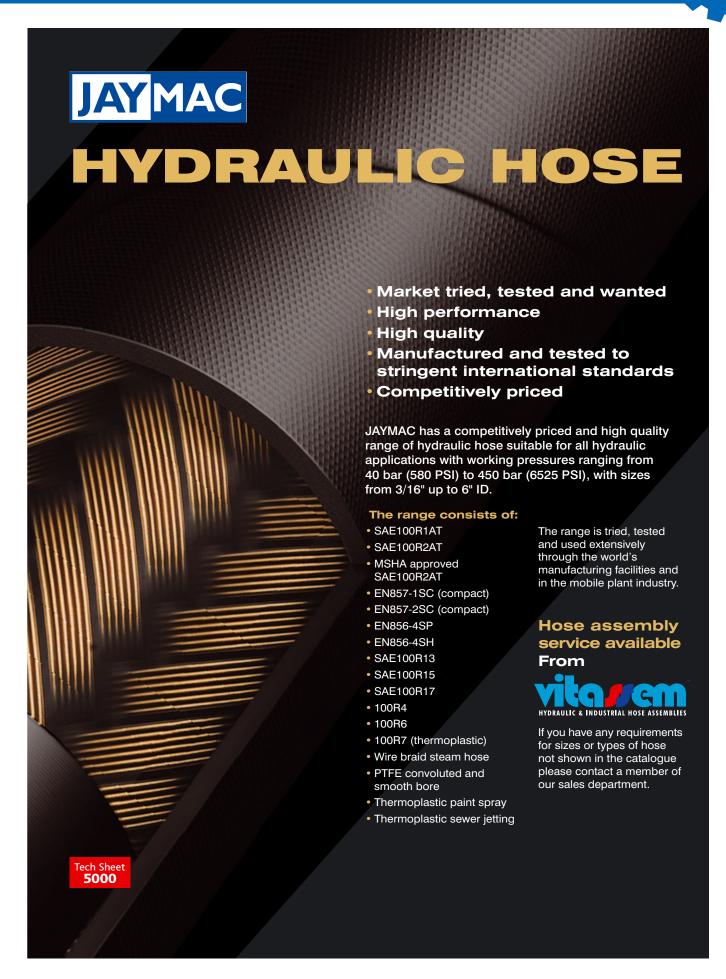
10mm

Plastic Push-in Fittings & Tube Cutter

CONTENTS:

	A. Committee	
Tube Cutter PXC058 Qty: 1	Flow Controller (Unidirectional) 2022-9761 Qty: 2	Equal Connector 2019-8321 Qty: 8
Equal Elbow 2019-8370 Qty: 3	1/8" BSPP Male Stud Elbow 2028-8312 Qty: 3	1/4" BSPP Male Stud Elbow 2028-8320 Qty: 3
1/4" BSPT Flow Controller 2022-9928 Qty: 2	3/8" BSPT Flow Controller 2022-9936 Qty: 1	Equal Tee 2019-8420 Qty: 2
1/8" BSPT Male Stud 2019-5038 Qty: 7	1/4" BSPT Male Stud 2019-5046 Qty: 7	Equal Bulkhead 2019-8529 Qty: 2
3/8" BSPT Male Stud 2019-5053 Qty: 5	1/8" BSPP Male Stud 2028-7926 Qty: 8	1/4" BSPP Male Stud 2028-7934 Qty: 6





HYDRAULIC HOSE CONNECTORS

JAY MAC

Ferrules



R1AT, Non-skive

FT1-12-04CF FT1-12-05CF FT1-12-06CF	1/4" 5/16" 3/8"
ET1 12 06CE	3/8"
F1 1-12-00CF	5,0
FT1-12-08CF	1/2"
FT1-12-10CF	5/8"
FT1-12-12CF	3/4"
FT1-12-16CF	1"
FT1-12-20CF	1.1/4"
FT1-12-24CF	1.1/2"
FT1-12-32CF	2"



R2AT, Non-skive

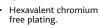
0309	To Suit Hose I.D.
FT2-12-04CF	1/4"
FT2-12-05CF	5/16"
FT2-12-06CF	3/8"
FT2-12-08CF	1/2"
FT2-12-10CF	5/8"
FT2-12-12CF	3/4"
FT2-12-16CF	1"
FT2-12-20CF	1.1/4"
FT2-12-24CF	1.1/2"
FT2-12-32CF	2"



R7

0309	To Suit Hose I.D.
FR78-03	3/16"
FR78-04	1/4"
FR78-05	5/16"
FR78-06	3/8"
FR78-08	1/2"

BSP





BSPP Male Inserts

0309		To Suit Hose I.D.
BM0404CF	1/4"	1/4"
BM0604CF	3/8"	1/4"
BM0605CF	3/8"	5/16"
BM0606CF	3/8"	3/8"
BM0608CF	3/8"	1/2"
BM0806CF	1/2"	3/8"
BM0808CF	1/2"	1/2"
BM1010CF	5/8"	5/8"
BM1212CF	3/4"	3/4"
BM1616CF	1"	1"
BM2020CF	1.1/4"	1.1/4"
BM2424CF	1.1/2"	1.1/2"
BM3232CF	2"	2"



BSPP Female Swept 90° Inserts

0309		To Suit Hose I.D.
BF029004CF	1/8"	1/4"
BF049004CF	1/4"	1/4"
BF049005CF	1/4"	5/16"
BF069004CF	3/8"	1/4"
BF069005CF	3/8"	5/16"
BF069006CF	3/8"	3/8"
BF069008CF	3/8"	1/2"
BF089006CF	1/2"	3/8"
BF089008CF	1/2"	1/2"
BF109008CF	3/4"	1/2"
BF109010CF	5/8"	5/8"
BF129008CF	3/4"	1/2"
BF129012CF	3/4"	3/4"
BF169016CF	1"	1"
BF209020CF	1.1/4"	1.1/4"
BF249024CF	1.1/2"	1.1/2"
BF329032CF	2"	2"



BSPP Female 90° Compact Inserts

0309		To Suit Hose I.D.
BF0490C04CF	1/4"	1/4"
BF0690C06CF	3/8"	3/8"
BF0890C08CF	1/2"	1/2"
BF1290C12CF	3/4"	3/4"
BF1690C16CF	1"	1"



BSPP Swivel Female Inserts

0309	\\\	To Suit Hose I.D.
BF0203CF	1/8"	3/16"
BF0206CF	1/8"	1/4"
BF0404CF	1/4"	1/4"
BF0405CF	1/4"	5/16"
BF0604CF	3/8"	1/4"
BF0605CF	3/8"	5/16"
BF0606CF	3/8"	3/8"
BF0608CF	3/8"	1/2"
BF0806CF	1/2"	3/8"
BF0808CF	1/2"	1/2"
BF1008CF	5/8"	1/2"
BF1010CF	5/8"	5/8"
BF1208CF	3/4"	1/2"
BF1210CF	3/4"	5/8"
BF1212CF	3/4"	3/4"
BF1616CF	1"	1"
BF2020CF	1.1/4"	1.1/4"
BF2424CF	1.1/2"	1.1/2"
BF3232CF	2"	2"



BSPP Female 45° Compact Inserts

0309		To Suit Hose I.D.
BF044504CF	1/4"	1/4"
BF044505CF	1/4"	5/16"
BF064504CF	3/8"	1/4"
BF064505CF	3/8"	1/2"
BF064506CF	3/8"	3/8"
BF064508CF	3/8"	1/2"
BF084506CF	1/2"	3/8"
BF084508CF	1/2"	1/2"
BF104505CF	5/8"	1/2"
BF104510CF	5/8"	5/8"
BF124508CF	3/4"	1/2"
BF124512CF	3/4"	3/4"
BF164516CF	1"	1"
BF204520CF	1.1/4"	1.1/4"
BF244524CF	1.1/2"	1.1/2"
BF324532CF	2"	2"

Banjo's

BSPP

BB16CF





0309	\\\	To Suit Hose I.D.
B0404CF	1/4"	1/4"
B0606CF	3/8"	3/8"
B0808CF	1/2"	1/2"
B1212CF	3/4"	3/4"
B1616CF	1"	1"

JUBILEE® CLAMPS & HOSE CLIPS



Jubilee® Hose Clips

- Precision engineered for quality, Jubilee clips are Kitemark approved to BS 5315:1991 and manufactured under the BS EN ISO 9002 quality system accepted by the British Standards Institution.
- The mild steel range is zinc protected for corrosion resistance and the stainless steel range is all 304 (A2) material.



Mild Steel, Zinc Protected

,				
6666	Size No.	min	max	
000-MS	000	9.5	12	
MOO-MS	MOO	11	16	
OO-MS	00	13	20	
O-MS	0	16	22	
OX-MS	OX	18	25	
1A-MS	1A	22	30	
1-MS	1	25	35	
1X-MS	1X	30	40	
1M-MS	1M	32	45	
2A-MS	2A	35	50	
2-MS	2	40	55	
2X-MS	2X	45	60	
3-MS	3	55	70	
3X-MS	3X	60	80	
4-MS	4	70	90	
4X-MS	4X	85	100	
5-MS	5	90	120	
6-MS	6	110	140	
6X-MS	6X	120	150	
7-MS	7	135	165	
71/2-MS	7.1/2	158	190	
81/2-MS	8.1/2	184	216	
91/2-MS	9.1/2	210	242	
101/2-MS	10.1/2	235	267	
111/2-MS	11.1/2	260	292	
121/2-MS	12.1/2	286	318	

Boxed Mild Steel, 10 Clips per Box

	-			
6666	Size No.	min	max	
OOO-MS-BOX	000	9.5	12	
MOO-MS-BOX	MOO	11	16	
OO-MS-BOX	00	13	20	
O-MS-BOX	0	16	22	
OX-MS-BOX	OX	18	25	
1A-MS-BOX	1A	22	30	
1-MS-BOX	1	25	35	
1X-MS-BOX	1X	30	40	
1M-MS-BOX	1M	32	45	
2A-MS-BOX	2A	35	50	
2-MS-BOX	2	40	55	
2X-MS-BOX	2X	45	60	
3-MS-BOX	3	55	70	

Please refer to pages 1094-1095 of our main 2013/14 Fluid Power Catalogue

304 Stainless Steel

6666	size No,	min	max
000-SS	000	9.5	12
MOO-SS	MOO	11	16
OO-SS	00	13	20
O-SS	0	16	22
OX-SS	OX	18	25
1A-SS	1A	22	30
1-SS	1	25	35
1X-SS	1X	30	40
1M-SS	1M	32	45
2A-SS	2A	35	50
2-SS	2	40	55
2X-SS	2X	45	60
3-SS	3	55	70
3X-SS	3X	60	80
4-SS	4	70	90
4X-SS	4X	85	100
5-SS	5	90	120
6-SS	6	110	140
6X-SS	6X	120	150
7-SS	7	135	165
71/2-SS	7.1/2	158	190
81/2-SS	8.1/2	184	216
91/2-SS	9.1/2	210	242
101/2-SS	10.1/2	235	267
111/2-SS	11.1/2	260	292
121/2-SS	12.1/2	286	318

Jubilee® Superclamps

- Heavy duty Jubilee® Superclamps for use on delivery hoses. Material: Mild steel zinc plated.
- Stainless steel 316 (A4) available by special order.



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6666	min	max	
JSC19	17	19	
JSC22	20	22	
JSC25	23	25	
JSC28	26	28	
JSC31	29	31	
JSC35	32	35	
JSC39	36	39	
JSC43	40	43	
JSC47	44	47	
JSC51	48	51	
JSC55	52	55	
JSC59	56	59	
JSC63	60	63	
JSC67	64	67	
JSC73	68	73	
JSC79	74	79	
JSC85	80	85	
JSC91	86	91	
JSC97	92	97	
JSC103	98	103	
JSC112	104	112	
JSC121	113	121	
JSC130	122	130	
JSC139	131	139	
JSC148	140	148	
JSC161	149	161	
JSC174	162	174	
JSC187	175	187	
JSC200	188	200	
JSC213	201	213	
JSC226	214	226	
JSC239	227	239	

Jubilee® Stainless Steel High Torque Hose Clips

- Jubilee® High Torque clips for applications that require additional high levels of tightening torque; twice the tightening torque of standard worm drive clips. Recommended tightening torque 17 Nm (150 lb in).
- · All stainless steel construction.

6666	min	max	
JHT35	20	35	
JHT40	25	40	
JHT45	25	45	
JHT50	30	50	
JHT70	40	70	
JHT80	60	80	
JHT95	70	95	
JHT100	80	100	
JHT120	90	120	
JHT140	110	140	
JHT160	130	160	
JHT180	150	180	
JHT200	170	200	
JHT220	190	220	

	-		
6666	min	max	
JHT240	210	240	
JHT260	230	260	
JHT280	250	280	
JHT300	270	300	
JHT320	290	320	
JHT340	310	340	
JHT360	330	360	
JHT380	350	380	
JHT400	370	400	
JHT420	390	420	
JHT440	410	440	
JHT480	450	480	
JHT500	470	500	

Tech Sheet





- 1500W
- Rated Pressure 70 bar
- Max Pressure 105 bar
- High pressure engineered plastic body, convenient store wire hanger rack
- · High performance motor
- · Long working life
- · Auto-stop function, energy saving
- Stable wheel assembly
- · Quick connectors between hose and gun, gun and machine, gun and different nozzles
- · Easy assembly
- Wide range of accessories including turbo nozzle
- Advanced pump and motor design







Innovative Quick Connectors between hose and gun, gun and machine









BY01-HBE-70

KW



0363

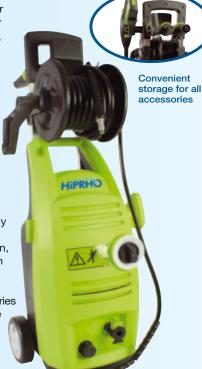
- Rated Pressure 90 bar
- Max Pressure 135 bar
- · Portable upright style, one piece machine with handle
- · High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- Long working life
- · Auto-stop function, energy saving
- Convenient storage for all accessories
- · Stable wheel assembly
- · Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Wide range of accessories including turbo nozzle



90 bar

0363

Maximum Working Pressure:



(L)

bar

- Rated Pressure 110 bar
- Max Pressure 165 bar
- Portable upright style, one piece machine with handle
- High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- · Long working life
- · Auto-stop function, energy saving
- · Convenient storage for all accessories
- · Stable wheel assembly
- · Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Advanced pump and motor design
- Built-in chemical tank
- Turbo nozzle
- Variable fan nozzle
- Trigger safety lock



Working Pressure: 110 bar



Innovative Quick Connectors between hose and gun, gun and machine

ĸw



a mm

Please refer to pages 1172-1173 of our main 2013/14 Fluid Power Catalogue

BY01-VBS-90

CONAH

HOSE REELS

Plastic Air & Water Hose Reels

Mountable High Pressure Water & Air Steel Hose Reels

- Reinforced PVC hose.
- Tough Impact resistant polypropylene construction.
- 180° swivel.
- · Self-layering hose guide for perfectly even hose rewinding.
- · Speed-controlled return spring.
- · Auto-locking mechanism allows easy use of hose at any length.
- · Carry handle.
- · Lightweight.



0800



9 Metre Hose Length





Inlet { }

(-ID-)



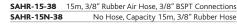
Metal Air & Water Hose Reels

Mountable High Pressure Water & Air Steel Hose Reels

- Heavy ribbed steel plate to ensure strong support.
- Spring located in the middle to ensure stability.
- Four direction non snag rollers to reduce hose wear abrasion.
- · Adjustable guide arm for multi positional mounting.
- Special swivel joint for easy maintenance and repair.
- Ball bearing swivel joint structure, largely reducing friction.
- Compact for applications with critical space requirement.
- Heavy duty steel construction with corrosion resistant powder coating.
- · Four direction non-snag rollers to reduce hose wear abrasion.
- · Multi position ratchet lock and easy tension adjustment.
- Spring fully closed and lubricated.
- · Full flow swivel
- Adjustable guide arm for multi positional mounting.



0800











TAGLE PRO ®

High Force Hydraulic Tools & Solutions

- Innovative hydraulic technology
- Extensive product range
- Competitively priced
- Lifetime warranty*

*Excludes blades, hoses, electric motors & air pumps



Single Acting, Low Height Cylinder with Fixing Holes



Features

- · Use in confined spaces.
- Complies with ASME B30.1. High strength steel for durability and increased safety.
- Mounting holes permit easy fixing.
- Heavy-duty piston return spring.
- High quality EAB-201 quick couplers.
- Grooved piston end requires no saddle.
- Environmentally friendly painting process provides a durable anti-corrosion finish.

Double Acting, High Tonnage Cylinder





Features

- Complies with ASME B30.1.
 High strength steel for durability and increased safety.
- Double acting operation for fast piston retraction.
- Built-in safety valve prevents accidental overpressurization.
- High quality EAB-201 quick couplers.
- Collar and piston threads for easy fixing.
- Environmentally friendly painting process provides a durable corrosion resistant finish.

Hydraulic Pump, Cylinder, Hose & Gauge



Features

- Each set comes with a 6 foot hose, a high flow coupler, gauge, and gauge adaptor.
- · Cylinders can be used in more applications.
- Monitor the system pressure is provided with the gauge.
- Low weight and high flow pumps provide more effective performance.

Electric Pumps



Features

- · Covers most applications in the industry.
- · High flow rate reaches 20in3/min and 39in3/min.
- 10Ft 24V, remote control or solenoid control for operator safety.
- 0.75hp and 1.0 hp motor.
- Starts under full load.
- High strength frame with handle for maximum portability.

Bottle Jack, In-line Design



Feature

- · Complies with ANSI/ASME PALD standards and CE/GS.
- Forged base and cylinder to ensure strength and eliminated leaks.
- Chromed pump piston and ram for added rust resistance.
- In-line design makes the jack more convenient to be positioned and operated.

Also Available from Eagle Pro

- High Pressure Hoses
- Pull Cylinders
- Tools
- Hydraulic Nut Splitters

Please refer to pages 246-259 of our main 2013/14 Fluid Power Catalogue







With huge stock holdings of FTM® Malleable Iron Pipe Fittings we are able to meet any of your requirements efficiently and on time.

The range is tried, tested and used extensively throughout the world's manufacturing facilities.

Applications:

- Construction
- Automotive
- Agriculture
- Industrial
- Mining

Please refer to pages 897-906 of our main 2013/14 Fluid Power Catalogue

METRIC HYDRAULIC TUBING

Hydraulic Tubing

Maximum working pressure has been determined according to DIN 2413 scope of application 1, for primarily static load at temperatures up to 120°C. Please Note: Due to new legislation governing the use of chromium plating the yellow zinc plated tube will be phased out of the manufacturers production and hence when stocks have been exhausted will be no longer available.

Its replacement will be the Chrome 6 free tube. Chrome 6 free tube will only become available as the yellow zinc plated stocks become exhausted in any particular size.

3 metre lengths may take up to 48 hours, 6 metre lengths may take up to 5 working days to be delivered, dependant on weight and delivery address location. Additional carriage charges may apply. For full details please contact us.

Minimum of 10 Lengths is advised upto 8mm to prevent damage in transit.



Bright - DIN 2391/C ST37.4, 3 Metre Lengths

HST4X1.0	3 Metre Lengths				
HST6X1.0 6 1.0 365 HST6X1.5 6 1.5 624 HST6X2.0 6 2.0 989 HST8X2.0 8 2.0 624 HST1XX2.5 12 2.5 485 HST14X1.5 14 1.5 217 HST14X2.0 14 2.0 303 HST16X2.5 16 2.5 337 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X2.5 20 2.5 259 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST22X1.5 22 1.5 132 HST22X2.0 22 2.0 181 HST25X1.5 25 1.5 115 HST25X2.0 25 2.0 157 HST25X3.0 25 2.5 201 HST25X3.0 25 3.0 257	0201		mm	bar	
HST6X1.5 6 1.5 624 HST6X2.0 6 2.0 989 HST8X2.0 8 2.0 624 HST12X2.5 12 2.5 485 HST14X1.5 14 1.5 217 HST14X2.0 14 2.0 303 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X2.5 20 2.5 259 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST2X1.5 22 1.5 132 HST2XX1.5 22 1.5 132 HST25X1.5 25 1.5 115 HST25X2.0 25 2.0 157 HST25X3.0 25 3.0 257 HST28X1.5 28 1.5 102 HST28X3.0 28 3.0 217 HST30X4.0 30 4.0 279	HST4X1.0	4	1.0	624	
HST6X2.0 6 2.0 989 HST8X2.0 8 2.0 624 HST12X2.5 12 2.5 485 HST14X1.5 14 1.5 217 HST14X2.0 14 2.0 303 HST16X2.5 16 2.5 337 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST22X1.5 22 1.5 132 HST22X2.0 22 2.0 181 HST25X1.5 25 1.5 115 HST25X2.0 25 2.5 201 HST25X2.0 25 2.5 201 HST25X3.0 25 3.0 257 HST28X1.5 28 1.5 102 HST28X3.0 28 3.0 217 HST30X2.5 30 2.5 164 </th <th>HST6X1.0</th> <th>6</th> <th>1.0</th> <th>365</th>	HST6X1.0	6	1.0	365	
HST8X2.0 8 2.0 624 HST12X2.5 12 2.5 485 HST14X1.5 14 1.5 217 HST14X2.0 14 2.0 303 HST16X2.5 16 2.5 337 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X3.5 20 2.5 259 HST20X3.5 20 3.5 388 HST20X3.5 20 3.5 388 HST22X1.5 22 1.5 132 HST2XX1.5 22 1.5 132 HST2XX1.5 25 1.5 115 HST25X2.0 25 2.0 157 HST25X2.0 25 2.5 201 HST25X3.0 25 3.0 257 HST25X3.0 25 3.0 257 HST28X1.5 28 1.5 102 HST28X2.5 28 2.5 177	HST6X1.5	6	1.5	624	
HST12X2.5 12 2.5 485 HST14X1.5 14 1.5 217 HST14X2.0 14 2.0 303 HST16X2.5 16 2.5 337 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X2.5 20 2.5 259 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST20X2.1 22 2.0 181 HST25X2.0 25 2.0 157 HST25X2.5 25 2.5 201 HST26X2.5 28 2.5 177	HST6X2.0	6	2.0	989	
HST14X1.5 14 1.5 217 HST14X2.0 14 2.0 303 HST16X2.5 16 2.5 337 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X2.5 20 2.5 259 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST22X1.5 22 1.5 132 HST22X2.0 22 2.0 181 HST25X1.5 25 1.5 115 HST25X2.0 25 2.0 157 HST25X2.5 25 2.5 201 HST25X3.0 25 3.0 257 HST28X1.5 28 1.5 102 HST28X2.5 28 2.5 177 HST38X3.0 28 3.0 217 HST35X2.5 35 2.5 139 HST35X2.0 35 2.0 109	HST8X2.0	8	2.0	624	
HST14X2.0 14 2.0 303 HST16X2.5 16 2.5 337 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST22X1.5 22 1.5 132 HST25X1.5 25 1.5 115 HST25X2.0 25 2.0 181 HST25X2.5 25 2.5 201 HST25X2.5 25 2.5 201 HST25X3.0 25 3.0 257 HST28X1.5 28 1.5 102 HST28X2.5 28 2.5 177 HST30X2.5 30 2.5 164 HST35X2.0 35 2.0 109 HST35X2.0 35 2.5 139 HST35X3.0 35 3.0 169 HST35X3.0 35 5.0 303		12	2.5	485	
HST16X2.5 16 2.5 337 HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X3.5 20 3.0 321 HST20X3.5 20 3.5 388 HST2X1.5 22 1.5 132 HST2XX.0 22 2.0 181 HST25X1.5 25 1.5 115 HST25X2.0 25 2.0 157 HST25X2.5 25 2.5 201 HST25X2.5 25 2.5 201 HST25X2.5 25 2.5 201 HST28X1.5 28 1.5 102 HST28X2.5 28 2.5 177 HST28X3.0 28 3.0 217 HST30X2.5 30 2.5 164 HST35X2.0 35 2.0 109 HST35X2.5 35 2.5 139 HST35X3.0 35 3.0 169	HST14X1.5	14	1.5	217	
HST18X2.0 18 2.0 226 HST18X2.5 18 2.5 300 HST20X2.5 20 2.5 259 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST22X1.5 22 1.5 132 HST22X2.0 22 2.0 181 HST25X1.5 25 1.5 115 HST25X2.0 25 2.0 157 HST25X2.5 25 2.5 201 HST25X3.0 25 3.0 257 HST28X1.5 28 1.5 102 HST28X2.5 28 2.5 177 HST38X3.0 28 3.0 217 HST30X2.5 30 2.5 164 HST35X2.0 35 2.0 109 HST35X2.0 35 2.5 139 HST35X3.0 35 3.0 169 HST35X3.0 35 5.0 303		14	2.0	303	
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HST20X2.5 20 2.5 259 HST20X3.0 20 3.0 321 HST20X3.5 20 3.5 388 HST22X1.5 22 1.5 132 HST22X2.0 22 2.0 181 HST25X1.5 25 1.5 115 HST25X2.0 25 2.0 157 HST25X3.0 25 2.5 2.5 HST25X3.0 25 3.0 257 HST28X1.5 28 1.5 102 HST28X2.5 28 2.5 177 HST38X3.0 28 3.0 217 HST30X4.5 30 2.5 164 HST30X4.0 30 4.0 279 HST35X2.0 35 2.0 109 HST35X3.0 35 3.0 169 HST35X3.0 35 5.0 303 HST38X3.0 38 3.0 155 HST42X3.0 42 3.0 139					
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HST35X3.0 35 3.0 169 HST35X5.0 35 5.0 303 HST38X3.0 38 3.0 155 HST42X3.0 42 3.0 139					
HST35X5.0 35 5.0 303 HST38X3.0 38 3.0 155 HST42X3.0 42 3.0 139					
HST38X3.0 38 3.0 155 HST42X3.0 42 3.0 139					
HST42X3.0 42 3.0 139					
HST42X4.0 42 4.0 190					
	HST42X4.0	42	4.0	190	

Bright - DIN 2391/C ST37.4, 6 Metre Lengths

0201	OD	mm	bar
HST4X1.0-6M	4	1.0	624
HST6X1.0-6M	6	1.0	365
HST6X1.5-6M	6	1.5	624
HST6X2.0-6M	6	2.0	989
HST8X2.0-6M	8	2.0	624
HST12X2.5-6M	12	2.5	485
HST14X1.5-6M	14	1.5	217
HST14X2.0-6M	14	2.0	303
HST16X2.5-6M	16	2.5	337
HST18X2.0-6M	18	2.0	226
HST18X2.5-6M	18	2.5	300
HST20X2.5-6M	20	2.5	259
HST20X3.0-6M	20	3.0	321
HST20X3.5-6M	20	3.5	388
HST22X1.5-6M	22	1.5	132
HST22X2.0-6M	22	2.0	181
HST25X1.5-6M	25	1.5	115
HST25X2.0-6M	25	2.0	157
HST25X2.5-6M	25	2.5	201
HST25X3.0-6M	25	3.0	247
HST28X1.5-6M	28	1.5	102
HST28X2.5-6M	28	2.5	177
HST28X3.0-6M	28	3.0	217
HST30X2.5-6M	30	2.5	164
HST30X4.0-6M	30	4.0	279
HST35X2.0-6M	35	2.0	109
HST35X2.5-6M	35	2.5	139
HST35X3.0-6M	35	3	169
HST35X5.0-6M	35	5	303
HST38X3.0-6M	38	3.0	155
HST42X3.0-6M	42	3.0	139
HST42X4.0-6M	42	4	190

The colour of the product may vary from that illustrated, due to new Health & Safety legislation controlling the use of chromium plating. The new plating will be silver rather than the traditional gold. Mixed stock may be supplied during the manufacturer's transitional period.

Contact us regarding tube manipulation

Chrome 6 Free, 3 Metre Lengths

		Lengui.	
0201	OD		bar
HST4X1.0-C6F	4	1	624
HST6X1.0-C6F	6	1	365
HST6X1.5-C6F	6	1.5	624
HST6X2.0-C6F	6	2	989
HST8X1.0-C6F	8	1	259
HST8X1.5-C6F	8	1.5	423
HST8X2.0-C6F	8	2	624
HST10X1.0-C6F	10	1	201
HST10X1.5-C6F	10	1.5	321
HST10X1.5-C6F	10	2	460
HST12X1.0-C6F	12	1	164
HST12X1.5-C6F		1.5	259
HST12X2.0-C6F	12	2	365
	12		
HST14X1.5-C6F	14	1.5	217
HST14X2.0-C6F	14	2	303
HST15X1.5-C6F	15	1.5	201
HST15X2.0-C6F	15	2	279
HST16X1.5-C6F	16	1.5	187
HST16X2.0-C6F	16	2	259
HST16X2.5-C6F	16	2.5	337
HST16X3.0-C6F	16	3	423
HST18X1.5-C6F	18	1.5	164
HST18X2.0-C6F	18	2	226
HST18X2.5-C6F	18	2.5	300
HST20X2.0-C6F	20	2	201
HST20X2.5-C6F	20	2.5	259
HST20X3.0-C6F	20	3	321
HST20X3.5-C6F	20	3.5	388
HST20X4.0-C6F	20	4	460
HST22X1.5-C6F	22	1.5	132
HST22X2.0-C6F	22	2	181
HST22X2.5-C6F	22	2.5	232
HST25X1.5-C6F	25	1.5	115
HST25X2.0-C6F	25	2	157
HST25X2.5-C6F HST25X3.0-C6F	25	2.5	201
	25	3	247
HST25X4.0-C6F HST28X1.5-C6F	25	4 1.5	347
	28		102
HST28X2.0-C6F	28	2	139
HST28X2.5-C6F	28	2.5	177
HST28X3.0-C6F	28	3	217
HST30X2.5-C6F	30	2.5	164
HST30X3.0-C6F	30	3	201
HST30X4.0-C6F	30	4	279
HST35X2.0-C6F	35	2	109
HST35X2.5-C6F	35	2.5	139
HST35X3.0-C6F HST35X5.0-C6F	35 35	3 	169 303
	38	3	155
HST38X3.0-C6F HST38X4.0-C6F	38	4	
HST42X3.0-C6F	42	3	213 139
HST42X4.0-C6F	42	4	190
HST50X3.0-C6F	50	3	115
HST50X5.0-C6F	50	5	201
HST50X6.0-C6F	50	6	247
11313070.0-C0F	50	- 0	441