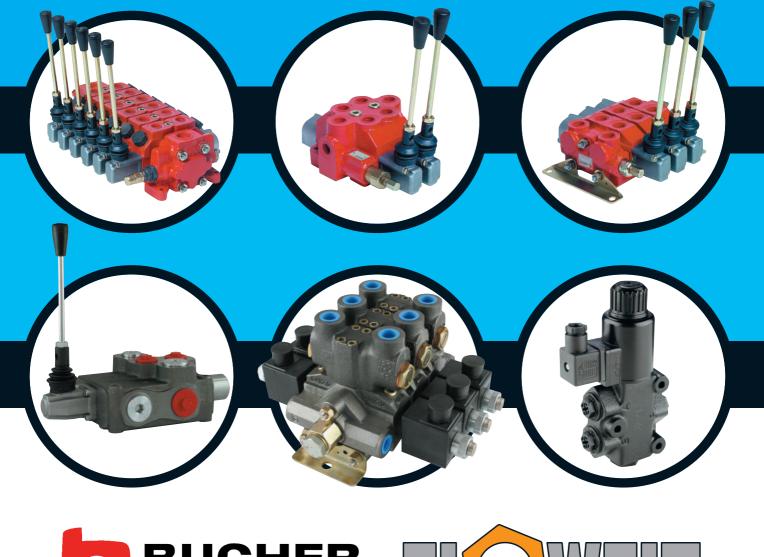
HYDRAULIC VALVES • SECTION 3A

HYDRAULIC CONTROL VALVES

| MONOBLOCK DIRECTIONAL CONTROL VALVES | 71 |
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| LEVER OPERATED DIVERTER VALVES | |





70 • HYDRAULIC CONTROL VALVES

MONOBLOCK DIRECTIONAL CONTROL VALVES TYPE HDM

System Description

The valves of the HDM range are compact monoblock valves, available in 4 sizes. With the combination of different directional valves, stops, operators and shock-and/or anti-cavitation valves* this monoblock is adaptable to any requirements. The HDM valves are available with open centre, high pressure carryover or closed centre operation.

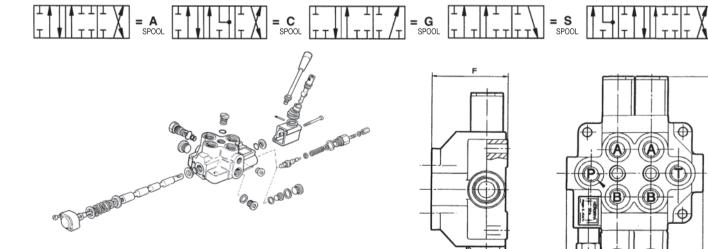
If you can't see what you need - please ask!

- Lever control
- Electro hydraulic on/off
- Parallel and series circuits
- Unload in neutral, high pressure carryover
- Ancillary Valves: shock-and anticavitation valves, shock valves, check valves

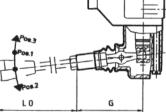


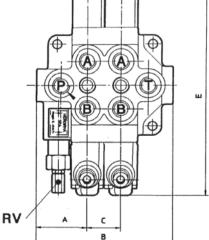
| TECHNICAL DATA | | HDM140 | HDM 11 P | HDM 11 S | HDM 18 | HDM 25 | SD18 | |
|-----------------------|--|--------|----------|-------------|--------------|--------|------|--|
| NUMBER OF SPOOLS | | 1 | 2-6 | 1-6 | 1-4 | 1-2 | 1-6 | |
| FLOW RATE | L/MIN | 40 | 45 | 45 | 70 | 100 | 160 | |
| INLET PRESSURE MAX. | BAR | 320 | 400 | 400 | 400 | 400 | 250 | |
| RETURN PRESSURE MAX. | BAR | 30 | 30 | 30 | 30 | 30 | 25 | |
| FLUID | | | | MINERAL OIL | TO DIN 51524 | | | |
| OPERATING TEMPERATURE | °C | | | -20 T(| O +80 | | | |
| VISCOSITY RANGE | MM2/S | | | 16 T | O 75 | | | |
| FILTRATION | MICRON | | | 3 | 0 | | | |
| | | | | | | | | |
| DIRECTIONAL VALVE | | | | | | | | |
| CONTROLS AVAILABLE | CONTROLS AVAILABLE LEVER / CABLE CONTROL / ELECTRO HYDRAULIC (ON/OFF) / ELECTRO HYDRAULIC PROPORTIONAL | | | | | | | |

SPOOLS AVAILABLE – PLUS MANY MORE



| LEVER LE | NGTHS | – mm | | | |
|----------|-------|------|-----|-----|-----|
| HDM 140 | 150 | 200 | 250 | 300 | - |
| HDM 11 | 150 | 200 | 250 | 300 | - |
| HDM 18 | - | 185 | 250 | 300 | 350 |
| HDM 25 | - | 185 | 250 | 300 | 350 |
| SD18 | 150 | 200 | 250 | 300 | - |





= Z

| | A | В | С | E | F | G | Р | т | A+B |
|---------------|----------|-------------------------|------|-----|----|-----|---|----------|-----|
| HDM 140* | 35 | 85 | 0 | 187 | 53 | 87 | | 3/8" BSP | |
| HDM 11 P | 51.3 | 28.6 X S + 128.6 | 28.6 | 180 | 57 | 66 | | 3/8" BSP | |
| HDM 11 S | 53.0 | 36 X S + 111 | 36 | 180 | 67 | 66 | | 1/2" BSP | |
| HDM 18 | 60 | 40 X S + 115 | 40 | 216 | 72 | 73 | | 1/2" BSP | |
| HDM 25 | 62 | 40 X S + 124 | 40 | 252 | 90 | 80 | | 3/4" BSP | |
| SD 18 | 85 | 53 X S + 160 | 53 | 320 | 92 | 124 | | 3/4" BSP | |
| | | | | | | | | | |
| S = NUMBER OF | SPOOL -1 | | | | | | | | |

* SINGLE MONOBLOCK VALVE ONLY













| 3/8" PORTS MAX FLOW 40L/MIN MONOBLOCK HDM140 SERIES C/W MAIN RELIEF VALVE | | | | | | |
|---|---|------------------------------|--------|--|--|--|
| PART NO | DESCRIPTION DEUCHER HYDRAULICS | OPERATING PRESSURE BAR | PRICE | | | |
| 200.0514.12.024 | HDM140 K02150A01 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 320 | £76.29 | | | |
| 200.0514.12.047 | HDM140 K02150G01 1 BANK SINGLE ACTING SPRING RETURN LEVER OPERATED | 320 | £76.29 | | | |
| 200.0514.12.044 | HDM140 K02150C03 1 BANK MOTOR SPOOL 3 POSITION DETENT LEVER OPERATED | 320 | £76.29 | | | |

| 3/8" PORTS MAX FLOW 45L/MIN MONOBLOCK HDM11/P SERIES C/W MAIN RELIEF VALVE | | | | | | | |
|--|--|------------------------------|---------|--|--|--|--|
| PART NO | DESCRIPTION DESCRIPTION | OPERATING PRESSURE BAR | PRICE | | | | |
| 200.0611.22.182 | HDM11P/2K04 150 A01 A01 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £178.59 | | | | |
| 200.0611.32.164 | HDM11P/3KO4 150 A01 A01 A01 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £251.86 | | | | |
| 200.0611.42.124 | HDM11P/4K04 150 A01 A01 A01 A01 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £304.52 | | | | |
| 200.0611.52.078 | HDM11P/5K04 150 A01 A01 A01 A01 A01 A01 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £364.05 | | | | |
| 200.0611.62.026 | HDM11P/6K04 150 A01 A01 A01 A01 A01 A01 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £412.13 | | | | |

| 1/2" PORTS MAX FLOW 45L/MIN MONOBLOCK HDM11/S SERIES C/W MAIN RELIEF VALVE | | | | | | | |
|--|--|------------------------------|---------|--|--|--|--|
| PART NO | DESCRIPTION DESCRIPTION | OPERATING PRESSURE BAR | PRICE | | | | |
| 200.0611.13.042 | HDM11S/1K03 150 A01 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £144.24 | | | | |
| 200.0611.23.043 | HDM11S/2K03 150 A01 A01 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £222.09 | | | | |
| 200.0611.33.044 | HDM11S/3K03 150 A01 A01 A01 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £288.49 | | | | |
| 200.0611.43.040 | HDM11S/4K03 150 A01 A01 A01 A01 4 BANK BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £354.89 | | | | |
| 200.0611.53.037 | HDM11S/5KO3 150 A01 A01 A01 A01 A01 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £430.44 | | | | |
| 200.0611.63.015 | HDM11S/6K03 150 A01 A01 A01 A01 A01 A01 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £455.63 | | | | |

| 1/2" PORTS MAX FLOW 70L/MIN MONOBLOCK HDM 18 SERIES C/W MAIN RELIEF VALVE | | | | | | | |
|---|---|------------------------------|---------|--|--|--|--|
| PART NO | DESCRIPTION DESCRIPTION | OPERATING PRESSURE BAR | PRICE | | | | |
| 200.0718.13.002 | HDM18/1K02 150/A08 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £206.06 | | | | |
| 200.0718.23.001 | HDM18/2K02 150/A08 A08 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £320.54 | | | | |
| 200.0718.33.008 | HDM18/3K02 150/A08 A08 A08 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £446.47 | | | | |
| 200.0718.43.007 | HDM18/4K02 150/A08 A08 A08 A08 A08 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 400 | £544.92 | | | | |

| 3/4" PORTS MAX FLOW 100L/MIN MONOBLOCK HDM 25 SERIES C/W MAIN RELIEF VALVE | | | | | | |
|--|--|------------------------------|---------|--|--|--|
| PART NO | DESCRIPTION DESCRIPTION | OPERATING PRESSURE BAR | PRICE | | | |
| 200.0725.14.001 | HDM25/1K03 150/A01 L100 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 320 | £290.78 | | | |
| 200.0725.24.001 | HDM25/2KO3 150/A01/A01 L100 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 320 | £522.03 | | | |
| | · | | | | | |

| 3/4" PORTS MAX FLOW 160L/MIN MONOBLOCK SD18 SERIES C/W MAIN RELIEF VALVE | | | | | | | |
|--|--|------------------------------|-----------|--|--|--|--|
| PART NO | DESCRIPTION FLOWFIT | OPERATING PRESSURE BAR | PRICE | | | | |
| 106111001 | SD18/1-P(KG3)/18L/AET 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | £651.43 | | | | |
| 106211001 | SD18/2-P(KG3)/18LX2/AET 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | £961.30 | | | | |
| 106311001 | SD18/3-P(KG3)/18LX3/AET 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | £1,302.27 | | | | |
| 106411001 | SD18/4-P(KG3)/18LX4/AET 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | £1,595.45 | | | | |
| 106511001 | SD18/5-P(KG3)/18LX5/AET 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | £1,913.97 | | | | |
| 106611001 | SD18/6-P(KG3)/18LX6/AET 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | £2,306.00 | | | | |

SLICE DIRECTIONAL CONTROL VALVES TYPE HDS

System Description

The HDS valve range represents a flexible unit construction, the elements of which may be combined into one valve unit as required.

The valves are available connected in parallel and in series circuits.

A typical valve unit comprises an inlet plate, the directional control valve sections and end plate.

With all valves in neutral the flow returned to the tank (open centre). In addition high pressure carry over or closed centre circulation are available.

- Lever control
- Electro hydraulic on/off and proportional operation
- Open centre, closed centre and high pressure carryover
- Pilot operated check valves
- Priority flow control valves
- Shock, anticavitation and combined shock and anticavitation valves



| TECHNICAL DATA | | HDS 11 | HDS 15 | HDS 19 | HDS 20 | HDS 30 | SD25 | |
|-----------------------|--------|--------|------------|-------------|---------------|--------|-------------|--|
| NUMBER OF SPOOLS | | 1-10 | 1-10 | 1-10 | 1-10 | 1-10 | 1-10 | |
| FLOW RATE | L/MIN | 45 | 60 | 70 | 80 | 120 | 240 | |
| INLET PRESSURE MAX. | BAR | 320 | 320 | 320 | 320 | 320 | 315 | |
| RETURN PRESSURE MAX. | BAR | 30 | 30 | 30 | 30 | 30 | 25 | |
| FLUID | | | | MINERAL OIL | TO DIN 51524 | | | |
| OPERATING TEMPERATURE | 0° | | -20 TO +80 | | | | | |
| VISCOSITY RANGE | MM2/S | | 16-75 | | | | | |
| FILTRATION | MICRON | ≤30 | | | | | | |
| | | | | | | | | |

DIRECTIONAL VALVE

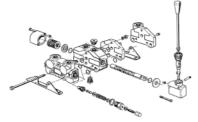
CONTROLS AVAILABLE LEVER / JOYSTICK FOR 2 VALVES / CABLE CONTROL / HYDRAULIC OR PNEUMATIC ON/OFF ELECTRO HYDRAULIC (ON/OFF) / ELECTRO PNEUMATIC PROPORTIONAL

SPOOLS AVAILABLE – PLUS MANY MORE

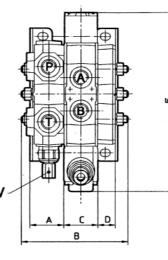
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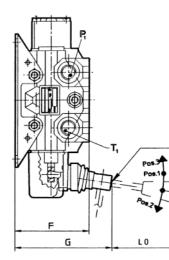
| | A | В | C | D | E | F | G | P+T A+B |
|--------|-----|------------------|------|----|-----|-----|-----|------------------|
| HDS 11 | 40 | 31.8 X W + 101.6 | 31.8 | 40 | 171 | 75 | 122 | 3/8" BSP |
| HDS 15 | 44 | 4 0X W + 86 | 40 | 21 | 179 | 88 | 115 | 1/2" BSP |
| HDS 20 | 40 | 40 X W +100 | 40 | 40 | 252 | 106 | 121 | 3/4" 1/2" BSP |
| HDS 30 | 50 | 4 4X W + 124 | 44 | 50 | 262 | 113 | 126 | 1" 3/4" |
| SD 25 | N/A | 6 2X W + 173 | N/A | 62 | 356 | N/A | 137 | P 1" T 1 1/4" 1" |
| | | | | | | | | |

W = WIDTH OF DIRECTIONAL SECTIONS (MAX. 10 SECTIONS PER CONTROL BLOCK)



| | | LE | VER LE | ENGTH | S — m r | n | | |
|---|---------|-----|--------|-------|----------------|-----|---|----|
| [| HDM 140 | 150 | 200 | 250 | 300 | - | | R۱ |
| | HDS 11 | 150 | 200 | 150 | 300 | - | - | |
| | HDS 15 | - | 185 | 250 | 300 | 350 | - | |
| | HDS 20 | - | 185 | 250 | 300 | 350 | - | |
| | HDS 30 | - | 185 | 250 | 300 | 350 | - | |
| | SD25 | 150 | 200 | 250 | 300 | - | - | |







| HDS11 SL | HDS11 SLICE VALVE 3/8" PORTS MAX FLOW 45L/MIN C/W MAIN RELIEF AND MOUNTING FEET. | | | |
|--------------|--|----------------------|------------------------------|-----------|
| PART NO | DESCRIPTION DEUCHER HYDRAULICS | MAX FLOW L/MIN | OPERATING PRESSURE BAR | PRICE |
| HDS11/1/STD | 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £214.75 |
| HDS11/2/STD | 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £325.71 |
| HDS11/3/STD | 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £435.26 |
| HDS11/4/STD | 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £544.79 |
| HDS11/5/STD | 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £655.77 |
| HDS11/6 /STD | 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £766.74 |
| HDS11/7/STD | 7 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £876.26 |
| HDS11/8/STD | 8 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £987.25 |
| HDS11/9/STD | 9 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £1,098.22 |
| HDS11/10/STD | 10 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 45 | 320 | £1,207.75 |



| HDS15 SLICE VALVE 1 | 2"PORTS MAX FLOW 60L/ | MIN C/W MAIN RELIEF A | ND MOUNTING FEFT |
|---------------------|-----------------------|-----------------------|------------------|

| PART NO | DESCRIPTION DEUCHER HYDRAULICS | MAX FLOW L/MIN | OPERATING PRESSURE BAR | PRICE |
|--------------|---|----------------------|------------------------------|-----------|
| HDS15/1/STD | 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £270.95 |
| HDS15/2/STD | 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £409.31 |
| HDS15/3/STD | 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £547.67 |
| HDS15/4/STD | 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £684.59 |
| HDS15/5/STD | 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £822.95 |
| HDS15/6/STD | 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £961.30 |
| HDS15/7/STD | 7 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £1,099.67 |
| HDS15/8/STD | 8 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £1,237.86 |
| HDS15/9/STD | 9 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £1,376.39 |
| HDS15/10/STD | 10 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 60 | 320 | £1,513.30 |

CCELLENT METERING

| HDS20 SLICE VAL | HDS20 SLICE VALVE 1/2" PORTS (A+B), 3/4" PORTS (P+T) MAX FLOW 80 L/MIN C/W MAIN RELIEF AND MOUNTING FEET. | | | | |
|-----------------|---|----------------------|------------------------------|-----------|--|
| PART NO | DESCRIPTION DESCRIPTION | MAX FLOW L/MIN | OPERATING PRESSURE BAR | PRICE | |
| HDS20/1/STD | 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £354.44 | |
| HDS20/2/STD | 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £523.17 | |
| HDS20/3/STD | 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £691.79 | |
| HDS20/4/STD | 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £860.42 | |
| HDS20/5/STD | 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £1,029.05 | |
| HDS20/6/STD | 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £1,197.66 | |
| HDS20/7/STD | 7 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £1,364.86 | |
| HDS20/8/STD | 8 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £1,545.00 | |
| HDS20/9/STD | 9 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £1,710.33 | |
| HDS20/10/STD | 10 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 80 | 320 | £1,866.60 | |



HDS30 SLICE VALVE 3/4" PORTS MAX FLOW 120L/MIN C/W MAIN RELIEF AND MOUNTING FEET. MAX **OPERATING BUCHER** PART NO DESCRIPTION **FLOW** PRESSURE PRICE HYDRAULICS L/MIN BAR 1 BANK HDS30/1/STD 120 320 £469.83 DOUBLE ACTING SPRING RETURN LEVER OPERATED 2 BANK HDS30/2/STD 120 320 £662.91 DOUBLE ACTING SPRING RETURN LEVER OPERATED 3 BANK HDS30/3/STD 120 320 £860.42 DOUBLE ACTING SPRING RETURN LEVER OPERATED 4 BANK HDS30/4/STD 120 320 £1,047.78 DOUBLE ACTING SPRING RETURN LEVER OPERATED 5 BANK HDS30/5/STD 120 320 £1,245.24 DOUBLE ACTING SPRING RETURN LEVER OPERATED 6 BANK HDS30/6/STD 120 320 £1,445.58 DOUBLE ACTING SPRING RETURN LEVER OPERATED 7 BANK HDS30/7/STD 120 320 £1.627.15 DOUBLE ACTING SPRING RETURN LEVER OPERATED 8 BANK HDS30/8/STD 120 320 £1,824.60 DOUBLE ACTING SPRING RETURN LEVER OPERATED 9 BANK HDS30/9/STD 120 320 £2.011.96 DOUBLE ACTING SPRING RETURN LEVER OPERATED 10 BANK HDS30/10/STD 120 320 £2,205.10 DOUBLE ACTING SPRING RETURN LEVER OPERATED

SD25 SLICE VALVE 1"PORTS MAX FLOW 240L/MIN C/W MAIN RELIEF VALVE AND MOUNTING FEET.

| PART NO | DESCRIPTION FLOWFIT | MAX FLOW L/MIN | OPERATING PRESSURE BAR | PRICE |
|-------------|---|----------------------|------------------------------|-----------|
| SD25/1/STD | 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £1,337.47 |
| SD25/2/STD | 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £1,894.35 |
| SD25/3/STD | 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £2,447.22 |
| SDS5/4/STD | 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £3,009.31 |
| SD25/5/STD | 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £3,567.08 |
| SD25/6/STD | 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £4,127.72 |
| SD25/7/STD | 7 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £4,688.36 |
| SD25/8/STD | 8 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £5,249.01 |
| SD25/9/STD | 9 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £5,808.21 |
| SD25/10/STD | 10 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 240 | 315 | £6,367.41 |

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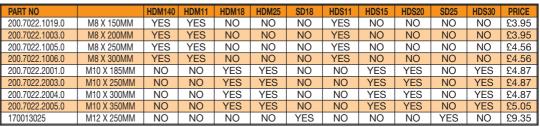
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| | C/W MAIN RELIEF AND MOUNTING FEET. INLET 1 1/4" | AND OUTLE | :1 1 1/2" | |
|----------------|---|----------------------|------------------------------|-----------|
| PART NO | DESCRIPTION FLOWFIT | MAX FLOW L/MIN | OPERATING PRESSURE BAR | PRICE |
| FLOW250/1/STD | 1 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £787.62 |
| FLOW250/2/STD | 2 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £1,110.46 |
| FLOW250/3/STD | 3 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £1,447.03 |
| FLOW250/4/STD | 4 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £1,781.31 |
| FLOW250/5/STD | 5 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £2,117.88 |
| FLOW250/6/STD | 6 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £2,454.45 |
| FLOW250/7/STD | 7 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £2,793.31 |
| FLOW250/8/STD | 8 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £3,129.88 |
| FLOW250/9/STD | 9 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £3,468.74 |
| FLOW250/10/STD | 10 BANK DOUBLE ACTING SPRING RETURN LEVER OPERATED | 250 | 350 | £3,805.32 |

FLOW 250 SLICE VALVE 1" SERVICE PORTS MAX FLOW 250L/MIN

ADDITIONS FOR VALVES

HANDLEVERS JUST ADD THE PRICE TO THE VALVE SELECTED



SPOOLS JUST ADD THE PRICE TO THE VALVE SELECTED



BUCHER

HYDRAULICS

MOTOR SPOOL TYPE 'C'

| DESCRIPTION | PRICE |
|--|---------|
| MOTOR SPOOL TYPE 'C' FOR HDM140, HDM11, HDM18, HDM25, SD18, HDS11, HDS15, HDS20 and SD25 | £30.25 |
| MOTOR SPOOL TYPE 'J' FOR FLOW250 | £119.06 |

О

SINGLE ACTING SPOOL TYPE 'G'

| DESCRIPTION | PRICE |
|--|---------|
| SINGLE ACTING SPOOL TYPE 'G' FOR HDM140, HDM11, HDM18, HDM25, SD18, HDS11, HDS15, HDS20 and SD25 | £30.25 |
| SINGLE ACTING SPOOL TYPE 'T' FOR FLOW250 | £119.06 |

4 POSITION FLOATING FOURTH 'Z' SPOOL

| DESCRIPTION | PRICE |
|--|---------|
| 4 POSITION FLOATING FOURTH 'Z' SPOOL FOR HDM140,HDM11S and HDS11 | £73.50 |
| 4 POSITION FLOATING FOURTH 'Z' SPOOL FOR HDM18 and HDS15 | £86.46 |
| 4 POSITION FLOATING FOURTH 'Z' SPOOL FOR HDS20 and HDS30 | £92.23 |
| 4 POSITION FLOATING FOURTH 'F' SPOOL FOR FLOW250 | £119.06 |

VALVE CONTROL KITS JUST ADD THE PRICE TO THE VALVE SELECTED

FLOWFIT



3 POSITION DETENT KIT

| DESCRIPTION | PRICE |
|---------------------------------|---------|
| FOR HDM140,HDM11 and HDS11 | £15.85 |
| FOR HDM18,HDM25,HDS20 and HDS30 | £19.38 |
| FOR SD18 and SD25 | £43.23 |
| FOR FLOW250 | £155.69 |

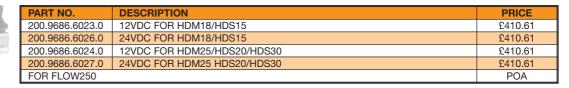
PNEUMATIC ON-OFF

| PART NO. | DESCRIPTION | PRICE |
|-----------------|-----------------------------|---------|
| 200.9686.5049.0 | FOR HDM140,HDM11S and HDS11 | £118.18 |
| 200.9686.5011.0 | FOR HDM18/HDS15 | £121.06 |
| 200.9686.5013.0 | FOR HDM25/HDS20/HDS30 | £123.61 |
| FOR FLOW250 | | POA |

PNEUMATIC PROPORTIONAL CONTROL

| PART NO. | DESCRIPTION | PRICE |
|-----------------|-----------------------|---------|
| 200.9686.5009.0 | FOR HDM18 and HDS15 | £133.93 |
| 200.9686.5010.0 | FOR HDM25/HDS20/HDS30 | £146.50 |
| FOR FLOW250 | | POA |

ELECTRO-PNEUMATIC ON-OFF







ADDITIONS FOR VALVES





HYDRAULIC ON-OFF VALVE

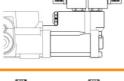
| PART NO. | DESCRIPTION | PRICE |
|-----------------|-------------------------|---------|
| 200.9686.5049.0 | FOR HDM140/HDM11S/HDS11 | £117.61 |
| 200.9686.5011.0 | FOR HDM18/HDS15 | £121.11 |
| 200.9686.5013.0 | FOR HDM25,HDS20/HDS30 | £123.61 |
| FOR FLOW250 | | POA |

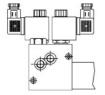
HYDRAULIC PROPORTIONAL VALVE

| PART NO. | DESCRIPTION | PRICE |
|-----------------|---------------------|---------|
| 200.9686.5019.0 | FOR HDM18/HDS15 | £105.06 |
| 200.9686.5020.0 | FOR HDM25 AND HDS20 | £112.08 |
| 200.9686.5017.0 | FOR HDS30 | £111.86 |
| FOR FLOW250 | | POA |

ELECTRO-HYDRAULIC ON-OFF INTERNAL PILOT VERSION VALVE

| PART NO. | DESCRIPTION | PRICE |
|-----------------|-----------------|---------|
| 200.9686.6038.0 | FOR HDM18/HDS15 | £505.54 |
| 200.9686.6039.0 | FOR HDS20/HDS30 | £505.54 |





ELECTRO-HYDRAULIC ON-OFF EXTERNAL PILOT VERSION VALVE

| PART NO. | DESCRIPTION | PRICE |
|-----------------|-----------------|---------|
| 200.9686.6031.0 | FOR HDM18/HDS15 | £639.65 |
| 200.9686.6032.0 | FOR HDS20/HDS30 | £639.65 |
| 200.9686.6051.0 | FOR HDM25 | £639.65 |

ELECTRO MAGNETIC ON-OFF VALVE

| PART NO. | DESCRIPTION | PRICE |
|-----------------|---------------------------|---------|
| 200.9686.1179.0 | 12VDC FOR HDM18 AND HDS15 | £381.71 |
| 200.9686.1180.0 | 24VDC FOR HDM18 AND HDS15 | £381.71 |

ELECTRO MAGNETIC ON-OFF VALVE

| DESCRIPTION | PRICE |
|-------------|---------|
| FOR HDS11 | £200.90 |
| FOR HDS15 | £200.90 |

MICROSWITCH KITS FOR VALVES

| DESCRIPTION | | PRICE |
|-----------------|--|---------|
| 200.9686.1064.0 | Assembly for HDM140, HDM11 AND HDS11 | £52.08 |
| 200.9686.1065.0 | Assembly for HDM18 and HDS15 | £64.10 |
| 200.9686.1054.0 | Assembly for HDS20 and HDS30 | £108.16 |
| DESCRIPTION | | PRICE |
| DESCRIPTION | | |
| 200.9625.0001.0 | Microswitch only for HDM18, HDS15, HDS20 and HDS30 | £46.06 |

MISCELLANEOUS ADD-ONS JUST ADD THE PRICE TO THE VALVE SELECTED





HIGH PRESSURE CARRYOVER CONNECTOR (ADD ON PER VALVE)

| DESCRIPTION | PRICE |
|-------------|--------|
| HDM11 | £12.50 |
| HDM18 | £20.35 |
| HDM25 | £21.26 |
| SD18 | £26.81 |
| HDS11 | £12.50 |
| HDS15 | £20.35 |
| HDS20 | £21.24 |
| HDS30 | £22.56 |
| SD25 | £27.84 |
| FLOW250 | £28.16 |

NOTE: HDM140 NOT AVAILABLE





ADDITIONS FOR VALVES

CLOSED CENTRE VALVE SOLUTIONS (ADD ON PER VALVE)

| DESCRIPTION | PRICE |
|-------------|--------|
| HDM140 | £7.61 |
| HDM11 | £7.61 |
| HDM18 | £18.30 |
| HDM25 | £18.30 |
| SD18 | £22.67 |
| HDS11 | £7.61 |
| HDS15 | £18.34 |
| HDS20 | £19.18 |
| HDS30 | £20.50 |
| SD25 | £17.33 |
| FLOW250 | £17.33 |





| DESCRIPTION | PRICE |
|---|--------|
| RELIEF BLANKING PLUG FOR HDM140, HDM11, HDM18, HDM25, SD18, HDS11, HDS15, HDS20, HDS30 and SD25 | £18.36 |
| FLOW250 | £18.32 |





| | PRICE |
|--------------------------------------|---------|
| SUITS ALL VALVES EXCEPT SD18/SD25 | £134.60 |
| | £142.37 |
| | £150.63 |
| | £167.13 |
| | £185.71 |
| | POA |
| | |



JOYSTICK ASSEMBLY

| DESCRIPTION | PRICE |
|--|---------|
| JOYSTICK ASSEMBLY FOR HDM11, HDM18, HDM25, HDS11, HDS15, HDS20 and HDS30 | £142.37 |
| FLOW250 | POA |

ANTI-CAVITATION VALVES TYPE 'C' C/A OR C C/AB

| DESCRIPTION | PRICE |
|--------------------------|--------|
| C/A OR B FOR HDS11 | £28.77 |
| C/AB FOR HDS11 | £37.67 |
| C/A OR B FOR HDS15 | £42.33 |
| C/AB FOR HDS15 | £55.60 |
| C/A OR B FOR HDS20/HDS30 | £58.98 |



ANTI-SHOCK AND ANTI-CAVITATION VALVES TYPE 'UC' UC/A UCAB

| DESCRIPTION | PRICE |
|---------------------------|---------|
| UC/A OR B FOR HDS11 | £60.55 |
| UC/AB FOR HDS11 | £88.99 |
| UC/A OR B FOR HDS15 | £66.73 |
| UC/AB FOR HDS15 | £117.42 |
| UC/A OR B FOR HDS20/HDS30 | £126.04 |
| UC/AB FOR HDS20/HDS30 | £171.19 |
| EK20KOI FOR FLOW250 | £91.58 |



ANTI-SHOCK VALVES TYPE 'OA' OA/A OR B OAAB

| DESCRIPTION | PRICE |
|---------------------------|--------|
| OA/A OR B FOR HDS11 | £55.60 |
| OA/AB FOR HDS11 | £73.52 |
| OA/A OR B FOR HDS15 | £67.35 |
| OA/AB FOR HDS15 | £92.71 |
| OA/A OR B FOR HDS20/HDS30 | £75.45 |
| OA/AB FOR HDS20/HDS30 | £99.52 |

FLOWFIT's extensive product range includes three types of diverter valves. DF and DH versions are available with manual and mechanical controls, whilst the DFE versions are solenoid operated.

SOLENOID DIVERTER VALVES







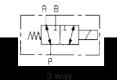
DFE052 3 WAY 3/8" BSP

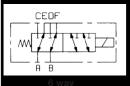


3/4" BSP



DFE10 6 WAY • 1/2" BSP





Diverters are an added extra facility to the directional control valve when it is needed for a sequence of operations, such as a safety operation or to control a selected actuator.

3 WAY SOLENOID DIVERTER VALVES

| PART NUMBER | PORT SIZE BSP | ТҮРЕ | VOLTAGE | NOMINAL FLOW L/MIN | MAX PRESSURE STANDARD (BAR) | MAX PRESSURE WITH DRAIN (BAR) | WEIGHT (KG) | PRICE |
|----------------|------------------|--------|---------|-----------------------|--------------------------------|----------------------------------|----------------|---------|
| 12A240020 | 3/8" | DFE052 | 12V DC | 30 | 160 | 250 | 1.6 | £295.06 |
| 12A240040 | 3/8" | DFE052 | 24V DC | 30 | 160 | 250 | 1.6 | £295.06 |
| 12A440013 | 1/2" | DFE10 | 12V DC | 60 | 160 | 250 | 2.9 | £388.67 |
| 12A440025 | 1/2" | DFE10 | 24V DC | 60 | 160 | 250 | 2.9 | £388.91 |
| 12A640014 | 3/4" | DFE20 | 12V DC | 110 | 160 | 250 | 4.2 | £526.79 |
| 12A640026 | 3/4" | DFE20 | 24V DC | 110 | 160 | 250 | 4.2 | £526.79 |

6 WAY SOLENOID DIVERTER VALVES

| PART NUMBER | PORT SIZE BSP | ТҮРЕ | VOLTAGE | NOMINAL FLOW L/MIN | MAX PRESSURE STANDARD (BAR) | MAX PRESSURE WITH DRAIN (BAR) | WEIGHT (KG) | PRICE |
|----------------|------------------|--------|---------|-----------------------|--------------------------------|----------------------------------|----------------|---------|
| 12A270033 | 3/8" | DFE052 | 12V DC | 30 | 160 | 250 | 2 | £334.68 |
| 12A270023 | 3/8" | DFE052 | 24V DC | 30 | 160 | 250 | 2 | £334.68 |
| 12A470013 | 1/2" | DFE10 | 12V DC | 60 | 160 | 250 | 3.7 | £410.25 |
| 12A470025 | 1/2" | DFE10 | 24V DC | 60 | 160 | 250 | 3.7 | £410.25 |
| 12A670014 | 3/4" | DFE20 | 12V DC | 110 | 160 | 250 | 6.3 | £577.56 |
| 12A670026 | 3/4" | DFE20 | 24V DC | 110 | 160 | 250 | 6.3 | £577.56 |



| PART NUMBER | DESCRIPTION | PRICE |
|-------------|---|--------|
| 2X1001010 | TYPE CO2 (ISO4400) 12/24V DC HERSCHMANN CONNECTOR | £5.17 |
| 5GIU001 | DRAIN CONNECTOR TO SUIT DFE052 | £16.88 |
| 5GIU004 | DRAIN CONNECTOR TO SUIT DFE10 | £19.66 |
| 5GIU007 | DRAIN CONNECTOR TO SUIT DFE20 | £23.88 |

LEVER OPERATED DIVERTER VALVES 'DF' SERIES

FLOWFIT

DF5/3A/17L



| PART NUMBER | DESCRIPTION - LEVER OPERATED | PORT SIZE BSP | FLOW RATE L/MIN | MAX. PRESS. Bar | PRICE |
|----------------|--|------------------|--------------------|--------------------|---------|
| 122052040 | DF5/3A/12/L 3 PORT 2 POSITION DETENT | 3/8" | 60 | 315 | £195.81 |
| 122054040 | DF5/3A/17/L 3 PORT 2 POSITION SPRING CONTROL BIAS TO 'A' PORT | 3/8" | 60 | 315 | £174.67 |
| 124052040 | DF10/3A/12/L 3 PORT 2 POSITION DETENT | 1/2" | 90 | 315 | £257.93 |
| 124054040 | DF10/3A/17/L 3 PORT 2 POSITION SPRING CONTROL BIAS TO 'A' PORT | 1/2" | 90 | 315 | £234.98 |
| 126052040 | DF20/3A/12/L 3 PORT 2 POSITION DETENT | 3/4" | 140 | 315 | £363.30 |
| 126054040 | DF20/3A/17/L 3 PORT 2 POSITION SPRING CONTROL BIAS TO 'A' PORT | 3/4" | 140 | 315 | £334.95 |
| 127052040 | DF25/3A/12/L 3 PORT 2 POSITION DETENT | 1" | 280 | 315 | £567.24 |
| 127054040 | DF25/3A/17/L 3 PORT 2 POSITION SPRING CONTROL BIAS TO 'A' PORT | 1" | 280 | 315 | £532.12 |
| 122082040 | DF5/6A/12/L 6 PORT 2 POSITION DETENT | 3/8" | 60 | 315 | £229.60 |
| 122084040 | DF5/6A/17/L 6 PORT 2 POSITION SPRING CONTROL BIAS TO 'A' PORT | 3/8" | 60 | 315 | £213.37 |
| 124082040 | DF10/6A/12/L 6 PORT 2 POSITION DETENT | 1/2" | 90 | 315 | £295.77 |
| 124084040 | DF10/6A/17/L 6 PORT 2 POSITION SPRING CONTROL BIAS TO 'A' PORT | 1/2" | 90 | 315 | £272.79 |
| 126082040 | DF20/6A/12/L 6 PORT 2 POSITION DETENT | 3/4" | 140 | 315 | £403.82 |
| 126084040 | DF20/6A/17/L 6 PORT 2 POSITION SPRING CONTROL BIAS TO 'A' PORT | 3/4" | 140 | 315 | £375.45 |

HYDRAULIC VALVES • SECTION 3B

